# FAIRWAY POINT GARAGE BUILDING

SPRING LAKE, NC

# Gallery Dr.



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
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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

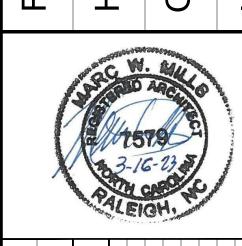




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RALEIGH, NC

Constructors, Inc. ery Dr, Spring Lake, NC 2839



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SHEET TITLE:

Project Cover Sheet

SHEET NUMBER:

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ABBREVIATIONS LIST
        ABOVE TOP OF SLAB
        ABOVE FINISHED FLOOR
        ACOUSTIC(AL) CEILING TILE
ADD
        ADDENDUM
ADH
ADJ
        ADHESIVE
        ADJACENT
ALUM
        ALUMINUM
        ARCHITECT(URAL)
        BETWEEN
BLK
        BLOCK(ING)
        BOARD
        BUILDING
BHD
        BULKHEAD
BTOS
CAB
CLG
CT
        BELOW TOP OF SLAB
        CABINET
        CEILING
        CERAMIC TILE
CTR
        CENTER
CLR
        CLEAR(ANCE)
COL
        COLUMN
COMB
        COMBINATION
CONC
CMU
CONF
        CONCRETE
        CONCRETE MASONRY UNIT
        CONFERENCE
CONST
        CONSTRUCTION
        CONSTRUCTION JOINT
CONT
        CONTINUOUS
CONTR
        CONTRACTOR
DEMO
DTL
        DEMOLITION
        DETAIL
DIAG
        DIAGONAL
DIA
DIM
         DIMENSION
DISP
DIV
        DISPENSER
        DIVISION
DR
DBL
DN
        DOOR
        DOUBLE
DWR
DWG
        DRAWER
        DRAWING
        DRINKING FOUNTAIN
        ELECTRIC(AL)
ELEC
        ELECTRIC WATER COLLER
        ELEVATION
ELEV
        ELEVATOR
ENCL
        ENCLOSE(URE)
EQ
        EQUAL
EX
        EXISTING
        EXPANSION JOINT
EXT
        EXTERIOR
        FINISHED FLOOR
FIN
        FINISH(ED)
FA
        FIRE ALARM
        FLOORING CHANGE
        FIRE EXTINGUISHER
        FIRE HOSE CABINET
        FIRE RATED(ING)
        FLOOR(ING)
        FLOOR DRÁIN
        FULLY TEMPERED
FUR
        FURR(ING)
        GAUGE
        GYPSUM WALL BOARD
HORZ
        HORIZONTAL
H&V
HR
        HORIZONTAL AND VERTICAL
        HOUR
        INCLUDE(D)(ING)
INCL
        INSIDE DIAMETER
INSUL
        INSULATE(D)(ION)
ISG
        INSULATED SAFETY GLAZING
        JANITORS CLOSET
JC
KD
        KNOCK DOWN
        JOINT
        KITCHEN
        LABEL
        LAMINATE
        LAVATORY
        LEFT HAND
       LONG, LENGTH
MFR
        MANUFACTURER
MO
        MASONRY OPENING
```

MAXIMUM `

MINIMUM

MOUNTED

MOVABLE

MULLION

NOMINAL

NUMBER

OVERALL OVERHEAD

PAINTED

PLASTER

RADIUS

REFERENCE

RESILIENT REVISION RIGHT HAND RISER

ROOM

SCHEDULE SOAP DISPENSER

SOLID CORE

STANDARD

STRUCTURAL SUSPENDED

TELEPHONE THICKENS

**THRESHOLD** 

TOP OF SLAB

TYPICAL

UNDERCUT

UNFINISHED

VINYL BASE

VERTICAL

WITHOUT

WOOD

VERIFY IN FIELD

WATERPROOFING

STORAGE

STAINLESS STEEL

SQUARE

ON CENTER OPENING OPPOSITE

OFFICE

MECHANICAL METAL

MISCELLANEOUS

NOT IN CONTRACT NOT TO SCALE

OUTSIDE DIAMETER

PARTICLE BOARD PARTITION PERFORATED

PLASTIC LAMINATE PLYWOOD

PROJECTED(ION) QUARRY TILE

REINFORCE(D)(ING) REQUIRED

ROUGH OPENING RUBBER BASE

SANITARY NAPKIN DISPENSER

SPECIFICATION, SPECIFIED

**TOILET PAPER DISPENSER** 

UNLESS OTHERWISE NOTED

VINYL COMPOSITION TILE WALL COVERING

TONGUE AND GROOVE

SANITARY NAPKIN RECEPTACLE

PAPER TOWEL DISPENSER/DISPOSAL

MECH MET

MTD

MOV MUL

NOM NIC

NTS

OFF

OC OPNG OPP OD

OA

PTD

JPR PBD PTN PERF

PLAS

PLAM PWD

PROJ

RAD, R

REINF REQ

RES REV

RM

SND SR

SQ

STD

STL STOR

STRUC SUSP

THRES

TEL

T&G

TOS TYP

UON VIF

VERT VCT

W/O

WD

SCHED

	FAI	RWAY PC	DINTE GARAGE B	UILDING - BI	UILDING TABU	ILATION		
BUILDING TYPE	BUILDING DESCRIPTION	UNITS PER BLDG	UNIT MIX	TOTAL HEATED SQFT. (PER BUILDING CODE)	GROSS SQFT (PER BUILDING CODE. TOTAL AREA UNDER ROOF)		TOTAL NET SQFT	TOTAL GROSS SQFT
*GARAGE TYPE 1	1- STORY BLDG	N/A	N/A	-	2,457	1	-	2,457

					GARAGE TYPE 1 SHEET INDEX								
		GENERAL			ARCHITECTURAL				STRUCTURAL				PME - ELECTRICAL
SHEET NUMBER	REVISION DATE	SHEET TITLE	SHEET NUMBER	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	\$101			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	\$301			FOUNDATION DETAILS	E101			ELECTRICALGARAGE PLAN
G003		GARAGE TYPE 1 CODE SUMMARY				\$401			FRAMING DETAILS				
G004		UL DETAILS				\$402			FRAMING DETAILS				
G005		UL DETAILS				\$501			GENERAL NOTES AND SPECIAL INSPECTIONS				





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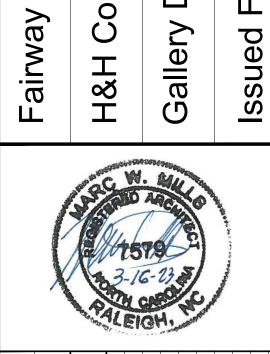
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#### ELEVATION NUMBER -SHEET NUMBER -BUILDING ELEVATION SECTION NUMBER -SHEET NUMBER — WALL SECTION **SECTION NUMBER -**SHEET NUMBER -**BUILDING SECTION** (À101/ DETAILNUMBER -SHEET NUMBER -

**ARCHITECTURAL SYMBOLS** 

ENLARGED DETAIL REFERENCE INTERIOR ELEVATION DOOR MARK WINDOW MARK FLOOR ELEVATION REFERENCE OR SPOT ELEVATION

REVISION NUMBER



## MATERIAL GRAPHICS

WOOD BLOCKING FINISH WOOD PLYWOOD ACOUSTIC TILE CEILING 会会会 GYPSUM WALL BOARD BATT INSULATION RIGID OR SEMI RIGID INSULATION STEEL CONCRETE CMU STONE / GRAVEL ALUMINUM

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	03-16-23	INITIALS DESCRIPTION									
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PROGF	ISSUE DATE:	REVISIONS: NUMBER									
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#### AIR SEALING NOTES - NORTH CAROLINA

NOTE: COVER ALL AIR SEALING LOCATIONS NOR DOES IT ADDRESS TECHNIQUES. SEE NC STATE BUILDING CODE: ENERGY CONSERVATION CODE, 2018 EDITION FOR ADDITIONAL INFORMATION. OTHER CODE PROVISIONS MAY BE APPLICABLE AS WELL.

- 1. PLATE AND WALL PENETRATIONS BY PLUMBING, ELECTRICAL, PHONE, CATV, ETC.
- TUB/SHOWER ON OUTSIDE OR ATTIC WALL.
- WINDOW AND DOOR ROUGH OPENINGS.
- 4. AIRTIGHT, IC-RATED RECESSED LIGHTS AND ELECTRICAL FIXTURES EXPOSED TO ATTIC.
- 5. EXTERIOR WALL EXHAUST FAN TERMINATIONS.
- CEILING MOUNTED BATH FANS, SPEAKERS, ETC.
- 7. BOTTOM PLATE AND TOP PLATE.
- SEAMS BETWEEN RIGID EXTERIOR SHEATHING.
- 9. BAND AREA BETWEEN FLOORS, CONDITIONED SPACE AND ATTIC.
- 10. MECHANICAL EQUIPMENT AND DUCTWORK CHASES IN ATTICS, CRAWLSPACES.
- 11. CEILING/CRAWLSPACE ELECTRICAL BOXES.
- 12. CEILING/CRAWLSPACE HVAC BOOTS
- 13. SHOWER AND TUB DRAIN LINE
- 14. FIREPLACE INSERTS.
- 15. ATTIC KNEEWALL DOORS.
- 16. JOIST CAVITIES UNDER ATTIC KNEEWALLS.
- 17. TRANSITION BETWEEN CEILING HEIGHTS.
- 18. ATTIC SCUTTLE HATCH.
- 19. WALL PENETRATIONS OF MECHANICAL COMBUSTION CLOSETS.
- 20. THRESHOLDS AT MECHANICAL COMBUSTION CLOSETS.
- 21. BAND JOIST EXPOSED TO EXTERIOR.
- 22. EXTERIOR WALL PENETRATIONS FOR REFRIGERATION LINES, CONDENSATE LINE, ETC.
- 23. DOORS AND WINDOWS BETWEEN UNHEATED AND HEATED SPACE SHALL BE WEATHER-STRIPPED AROUND THEIR PERIMETER TO LIMIT AIR LEAKAGE WHEN CLOSED.
- 24. FOAM GASKETS SHALL BE USED ON ALL RECEPTACLES, SWITCHES, AND OTHER UTILITY BOXES ON EXTERIOR
- 25. CAULK AND SEAL OPENINGS IN ELECTRICAL BOXES AND WHERE BOX MEETS DRYWALL WITH AN APPROVED SEALANT.

#### ACCESSIBILITY NOTES - NORTH CAROLINA

THE FOLLOWING ARE GENERAL NOTES FOR ACCESSIBILITY REQUIREMENTS, IT IS NOT AN ALL-ENCOMPASSING LIST NOR DOES IT ADDRESS SPECIFIC TECHNIQUES. THESE NOTES ARE

INTENDED AS A GENERAL OUTLINE. ENTIRETY OF BUILDING, SPACES, RESIDENTIAL UNITS, ETC. SHALL MEET THE 2018 NORTH CAROLINA STATE BUILDING CODE, ACCESSIBILITY CODE,

MOST CURRENT VERSION, INCLUDING AMENDMENTS, IN ADDITION, ANY AND ALL APPLICABLE LOCAL, STATE, FEDERAL, ETC. CODES SHALL APPLY IN JURISDICTION OF THE PROJECT.

- ACCESSIBLE ENTRANCES TO BE PROVIDED WITH SIGNS WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- 2. ALL HORIZONTAL WALKING SURFACES TO BE CONTINUOUS AND WITHOUT ABRUPT VERTICAL CHANGES EXCEEDING 1/4" MINIMUM. ALL HORIZONTAL WALKING SURFACES WILL BE MAINTAINED SLIP RESISTANT.
- DOOR OPENING REQUIREMENTS SHALL COMPLY WITH ICC/ANSI 117.1 2009 SECTION 404.
- 4. THE FLOOR OR LANDING ON EACH SIDE OF AN EXIT DOOR WILL BE LEVEL AND CLEAR. THE LEVEL AREA WILL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 44" AND A LENGTH OPPOSITE OF 44". AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN A CLOSED POSITION.
- MAXIMUM EFFORT TO OPERATE DOORS AND BLDG ENTRY GATES WILL NOT EXCEED 8.5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH

EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED/REQUIRED TO MEET THE ABOVE STANDARDS.

6. THE BOTTOM 10" OF ALL DOORS, EXCEPT AUTOMATIC AND SLIDING, WILL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALL THE DOOR TO BE OPENED BY A WHEELCHAIR

FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL WILL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.

- 9. THRESHOLDS WILL NOT EXCEED 1/2" IN TOTAL HEIGHT. VERTICAL FACES WILL NOT EXCEED 1/4". CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" WILL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGE IN LEVEL GREATER THAN 1/2" WILL BE ACCOMPLISHED BY MEANS OF A RAMP.
- 8. STAIRWAY TREADS MUST BE SLIP RESISTANT WITH, ROUNDED OR BEVELED EDGES AND NO ABRUPT EDGES AT THE NOSE.
- 9. THE FLOOR OR LANDING IMMEDIATELY OUTSIDE THE ENTRY MAY BE SLOPED UP TO 1/8" PER FOOT IN THE DIRECTION AWAY FROM THE BUILDING FOR DRAINAGE.
- 10. PET WASTE STATIONS SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND LOCATED PER ICC/ANSI A117.1 -2009 SECTION 308.
- 11. ALL MAILBOXES/PARCEL BOXES SHALL BE LOCATED ON AN ACCESSIBLE ROUTE AND MEET/LOCATED PER ICC/ANSI 117.1 -2009 SECTION 308 AND U.S. POSTAL SERVICE STD-4C.

CONFIRM WITH THE LOCAL USPS RESPONSIBLE FOR MAIL SERVICE TO/FROM THE SITE.

- 12. ACCESSIBLE RAMP CROSS SLOPES SHALL NOT EXCEED A MAXIMUM 2% CROSS SLOPE.
- 13. ACCESSIBLE RAMP SLOPES SHALL NOT EXCEED A MAXIMUM 8.33% SLOPE AND PROVIDE A LEVEL LANDING AT THE TOP AND BOTTOM OF THE RAMP, AT A MINIMUM THE LANDING SHALL BE 60" X WIDTH OF RAMP
- 14. ACCESSIBLE WALKING SURFACE SLOPES SHALL NOT EXCEED A MAXIMUM 5% SLOPE.

#### PROJECT GENERAL NOTES

- THE GENERAL CONTRACTOR (G.C.) SHALL FULLY ACQUAINT THEMSELVES WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO THE JOB SITE, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT THEY UNDERSTAND THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
- ALL WORK PERFORMED BY THE CONTRACTOR/SUB-CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL, LOCAL OR FEDERAL AND STATE LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED WITHIN THE CONSTRUCTION DOCUMENTS
- 3. THE CONTRACTOR/SUB-CONTRACTOR EXPRESSLY WARRANTS THAT ALL WORK SHALL BE EXECUTED IN A SOUND AND WORKMANLIKE MANNER IN CONFORMANCE WITH THE HIGHEST STANDARDS WITHIN THE INDUSTRY AND WARRANTS THAT ALL MATERIALS USED TO COMPLETE THE WORK/PROJECT ARE MERCHANTABLE, FREE FROM ANY PATENT OR LATENT DEFECT, FIT FOR THEIR INTENDED USE, AND EQUAL IN QUALITY TO THE BEST OF THEIR KIND.
- 4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND ALERT THE ARCHITECT AND OWNER IN ADVANCE, TO ANY UNFORESEEN CONDITIONS AND/OR CONSTRUCTION DIFFICULTIES PRIOR TO COMMENCING WORK OR WORKING ON THE AFFECTED PORTION OF THE WORK.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL EXISTING UTILITIES. ANY EXISTING UTILITIES INDICATED HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE INDICATED FOR CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL UTILITY LOCATIONS NOT INDICATED. CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE OR DISTURBANCE TO EXISTING UTILITIES.
- THROUGHOUT THE DRAWINGS ARE ABBREVIATIONS THAT ARE IN COMMON USE AND/OR DEFINED WITHIN. THE ARCHITECT SHALL DEFINE THE INTENT OF ANY IN QUESTION.
- 7. TYPICAL WALL SECTIONS, FINISHES, DETAILS, ETC. ARE NOT INDICATED EVERYWHERE THEY OCCUR ON THE DRAWINGS; REFER TO DETAILED DRAWINGS WHERE PROVIDED.
- NOTHING IN THE DRAWINGS AND/OR THE SPECIFICATIONS/PROJECT MANUAL SHALL BE CONSTRUED TO PERMIT AN INSTALLATION IN VIOLATION OF APPLICABLE CODES, MANUFACTURER RECOMMENDATIONS, AND/OR REQUIREMENTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY AND CEASE WORK ON ALL PARTS OF THE CONTRACT THAT ARE AFFECTED. THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH THE MOST CURRENT ADOPTED, AND AS APPLICABLE, AMENDED, RULES, REGULATIONS, RESTRICTIONS, REQUIREMENTS AND CODES.
- 9. IN CASE OF ANY CONFLICT WHEREIN THE METHODS OR STANDARDS OF INSTALLATION OR THE MATERIALS SPECIFIED DO NOT EQUAL OR EXCEED THE REQUIREMENTS OF THE LAWS OR ORDINANCES, THE LAWS OR ORDINANCES SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER OF ALL CONFLICTS ONCE KNOWN.
- 10. THE ARCHITECT ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL(S) OR THE ACCURACY OF ENGINEERING DATA SUPPLIED BY OTHERS.
- 11. THE G.C. SHALL VERIFY DIMENSIONS, LEVELS, EASEMENTS, BOUNDARIES AND CONSTRUCTION INDICATED ON CONTRACT DRAWINGS BEFORE PROCEEDING WITH THE WORK. ALSO, THE G.C. SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS BETWEEN THE CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS, BEFORE COMMENCING WITH ANY WORK AND REQUEST CLARIFICATION AS REQUIRED.
- 12. DIMENSIONS, NOTES, FINISHES, AND FIXTURES SHOWN ON TYPICAL PLANS, SECTIONS, OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL OR OPPOSITE PLANS, SECTIONS OR DETAILS.
- 13. DIMENSIONS NOTED AS "CLR." ARE TO BE CLEAR FROM FACE OF FINISH MATERIAL TO FACE OF FINISH MATERIAL OR CENTERLINE OF FIXTURE AND ARE NOT ADJUSTABLE WITHOUT WRITTEN APPROVAL OF **ARCHITECT**
- 14. THE CONTRACTOR SHALL VERIFY ALL ROUGH-IN DIMENSIONS FOR THE EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR OR OTHERS.
- 15. THE CONTRACTOR SHALL BE BOUND TO THE FINISH SCHEDULE(S) PROVIDED FOR ROOMS AND SPACES BUT SHALL ALSO BE RESPONSIBLE FOR PROVIDING OTHER MATERIALS NOT DESIGNATED IN THE SCHEDULE IF REQUIRED TO CREATE A FINISHED PRODUCT.
- 16. INSTALL AND SEAL ALL BATHROOM ACCESSORIES (E.G. GRAB BARS, TOWEL BARS, ETC.) ON OR WITHIN WALLS TO PROTECT ELEMENTS FROM MOISTURE. WALLS AT SHOWERS AND BATHTUBS SHALL BE WATERTIGHT TO A MINIMUM OF 7'-0" HIGH ABOVE DRAIN INLET.
- 17. PROVIDE APPROPRIATE SEALANT AROUND WINDOWS, DOOR JAMBS & HEADS, AND ADJACENT CONSTRUCTION.
- 18. WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE PRESERVATIVE TREATED; USE OF CCA PRESERVATIVE IS PROHIBITED. USE APPROPRIATE FASTENERS PER PRESERVATIVE.
- 19. ALL MATERIALS AND/OR EQUIPMENT SHALL BE INSTALLED/USED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND/OR RECOMMENDATIONS & SHALL COMPLY W/ ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
- 20. THE G.C. SHALL PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE AND LOCAL FIRE MARSHALL. GENERAL CONTRACTOR SHALL REVIEW AND CONFIRM ESTABLISHED LOCATIONS W/ ARCHITECT PRIOR TO COMMENCEMENT OF BUILDING FRAMING.
- 21. PROVIDE INTERIOR EXIT STAIRWAY NUMBERING SYSTEM PER NORTH CAROLINA BUILDING CODE SECTION 1023.9.1 AND ANY AND ALL OTHER APPLICABLE CODES/REGULATIONS.
- 22. THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 23. THE G.C. SHALL MAINTAIN A CURRENT AND COMPLETE SET OF APPROVED CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES. 24. THE G.C. SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND FOR ITEMS LISTED IN THE PROJECT MANUAL
- (UNDER SEPARATE COVER).
- 25. ALL FINISHED FLOOR ELEVATIONS SHALL BE A MINIMUM OF 8" ABOVE THE FINISHED GRADE OR AS INDICATED ON THE DRAWINGS.
- PROVIDE TEMPERED GLASS AS REQUIRED BY CODE ADJACENT TO DOORS AND EXIT WAYS.
- 27. GRADE SHALL BE SLOPED AWAY FROM BUILDING FOR POSITIVE DRAINAGE.
- 28. ROWLOCKS ARE TO PROJECT MIN. 1/2" FROM THE FACE OF RUNNING BOND BELOW. UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- 29. ALL HVAC, PLUMBING AND ELEC. PENETRATIONS THROUGHOUT THE EXTERIOR WALLS AND AT THE TOP AND BOTTOM PLATES SHALL BE PROPERLY SEALED.
- 30. EXTERIOR SEALANT SHALL BE SILICONE BASED; NO OTHER TYPES SHALL BE USED.

- 31. PROVIDE 1/2" TO 3/4" SEPARATION BETWEEN BASE FLASHING AND EXTERIOR MATERIALS.
- 32. APPROVE ALL EXTERIOR MATERIALS & COLORS WITH THE OWNER & ARCHITECT PRIOR TO ORDERING/FABRICATION. CONTRACTOR TO CONSTRUCT A MOCK-UP PANEL OF BUILDING EXTERIOR (IN ACCORDING TO ARCHITECT'S

INSTRUCTIONS PRIOR TO APPLICATION OF EXTERIOR FINISHES AND WINDOWS ON BUILDING. FINAL APPROVAL BY ARCHITECT & OWNER OF ALL EXTERIOR FINISHES / COLORS WILL BE MADE BASED ON THE MOCK-UP PANEL.

33. THE G.C. SHALL ASSURE THAT ANY AND ALL MATERIAL COMPATIBILITY IS ACHIEVED WITH NO NEGATIVE EFFECT ON MATERIALS, I.E. CONTACT OF DISSIMILAR MATERIALS WILL HAVE NO NEGATIVE IMPACT/EFFECT ON EITHER

MATERIAL OR SURROUNDING CONSTRUCTION. G.C. SHALL INFORM ARCHITECT OF ANY AND ALL CONCERNS PRIOR TO FABRICATION/INSTALLATION. PROVIDE GALVANIC INSULATION BETWEEN DISSIMILAR METALS.

- 34. NO BRICK/MASONRY CORE HOLES SHALL BE EXPOSED, TYP. CLOSURE (SOLID CORE) BRICK/MASONRY SHALL BE USED WHERE CORE HOLES WOULD OTHERWISE BE EXPOSED TO THE ELEMENTS.
- 35. EXPOSED STEEL LINTELS AND 'BREAK' METAL TO BE PAINTED TO MATCH ADJACENT SURFACE UNLESS NOTES OTHERWISE.
- 36. PROVIDE SOLID BLOCKING WITHIN WALL CAVITY SEGMENTS BEHIND ALL EXTERIOR LIGHTS, SIGNAGE, BRACKETS, ETC.
- 37. COORDINATE ALL EXTERIOR PAVING CONDITIONS WITH CIVIL DRAWINGS.
- 38. ALL CAULKING/SEALANT COLORS TO MATCH ADJACENT SURFACES.
- 39. PROVIDE 5/8" GWB WITHIN FIRE RATED WALL CAVITY SEGMENTS BEHIND ALL SURFACE MOUNTED ELECTRICAL PANELS PRIOR TO PANEL INSTALLATION.
- 40. VERIFY ALL FINISH FLOOR ELEVATIONS WITH CIVIL DRAWINGS.
- 41. COORDINATE ALL SIDEWALK LOCATIONS AND HEIGHTS WITH ALL HARDSCAPE PLANS. ALL SIDEWALKS AT DOOR THRESHOLDS SHALL BE LEVEL AND MEET ALL FHA REQUIREMENTS.
- 42. LOADS ON HANDRAILS, GUARDS, AND VEHICLE BARRIERS SHALL COMPLY WITH 2018 NCSBC CHAPTER 16.
- 43. ANY AND ALL MECHANICAL EQUIPMENT, APPLIANCES, AND SUPPORTS THAT ARE EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND LOADING/PRESSURES DETERMINED IN ACCORDANCE WITH THE 2018 NCSBC



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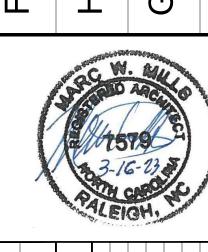


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PROJECT NO: DRAWN BY:

CHECKED BY:

General Project Notes

RW, MM

SHEET NUMBER:

U-Value of total assembly:

Horizontal/vertical requirement: N/R

R-Value of insulation:

Comparison   Com		E SUMMARY FOR ALL COMMERCIAL PRO- STRUCTURAL DESIGN
Importance Factors: Snow (Is) Select one Seismic (IE) Select one  Live Loads: Roof psf Mezzanine psf Floor psf  Ground Snow Load: psf  Wind Load: Ultimate Wind Speed mph (ASCE-7) Exposure Category Select one  SEISMIC DESIGN CATEGORY: Select one Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) Select one Spectral Response Acceleration Ss % % Site Classification (ASCE 7) Select one Data Source: Select one Basic structural system Select one Analysis Procedure: Select one Architectural, Mechanical, Components anchored? Select one LATERAL DESIGN CONTROL: Select one SOIL BEARING CAPACITIES:	DEGLEN LOADE	(SEE STRUCTURAL DRAWINGS)
Seismic (I <sub>E</sub> ) Select one  Live Loads:  Roof	DESIGN LOADS:	
Floor psf  Ground Snow Load: psf  Wind Load: Ultimate Wind Speed mph (ASCE-7) Exposure Category Select one  SEISMIC DESIGN CATEGORY: Select one  Provide the following Seismic Design Parameters: Risk Category (Table 1604.5) Select one Spectral Response Acceleration Ss %g S1 %g  Site Classification (ASCE 7) Select one Data Source: Select one Basic structural system Select one Analysis Procedure: Select one Architectural, Mechanical, Components anchored? Select one  LATERAL DESIGN CONTROL: Select one  SOIL BEARING CAPACITIES:	Importance Factors	
Wind Load:  Ultimate Wind Speed Exposure Category  Select one  SEISMIC DESIGN CATEGORY: Select one  Provide the following Seismic Design Parameters:  Risk Category (Table 1604.5) Select one Spectral Response Acceleration Ss	Live Loads:	Roof
Exposure Category Select one  SEISMIC DESIGN CATEGORY: Select one  Provide the following Seismic Design Parameters:  Risk Category (Table 1604.5) Select one  Spectral Response Acceleration Ss %g	Ground Snow Load	:psf
Provide the following Seismic Design Parameters:  Risk Category (Table 1604.5)  Select one Spectral Response Acceleration  Ss	Wind Load:	
Risk Category (Table 1604.5) Spectral Response Acceleration Spectral Response Spectrone Basic structural system Spectrone Analysis Procedure: Spectrone Architectural, Mechanical, Components anchored? Spectrone  LATERAL DESIGN CONTROL: Spectrone Soil Bearing Capacities:	SEISMIC DESIGN CATEG	ORY: Select one
Data Source: Select one  Basic structural system Select one Analysis Procedure: Select one Architectural, Mechanical, Components anchored? Select one  LATERAL DESIGN CONTROL: Select one  SOIL BEARING CAPACITIES:	Risk Category (Tabl	e 1604.5) <u>Select one</u>
Basic structural system Select one Analysis Procedure: Select one Architectural, Mechanical, Components anchored? Select one  LATERAL DESIGN CONTROL: Select one  SOIL BEARING CAPACITIES:	•	· · · · · · · · · · · · · · · · · · ·
LATERAL DESIGN CONTROL: Select one SOIL BEARING CAPACITIES:	Basic structural syst Analysis Procedure:	tem Select one Select one
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2018 APPENDIX B	RUIL DINC COD	
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROMECHANICAL DESIGN	BUILDING COD	E SUMMARY FOR ALL COMMERCIAL PRO MECHANICAL DESIGN
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PRO	BUILDING COD	E SUMMARY FOR ALL COMMERCIAL PRO MECHANICAL DESIGN
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROMECHANICAL DESIGN	BUILDING COD	E SUMMARY FOR ALL COMMERCIAL PRO MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PRO MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)		E SUMMARY FOR ALL COMMERCIAL PRO  MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)  MECHANICAL SUMMARY
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROMECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)  MECHANICAL SUMMARY  MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT  Thermal Zone	MECHANICAL SYSTEMS. Thermal Zone	E SUMMARY FOR ALL COMMERCIAL PRO  MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)  MECHANICAL SUMMARY , SERVICE SYSTEMS AND EQUIPMENT
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PRO MECHANICAL DESIGN (SEE MECHANICAL DRAWINGS) MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	MECHANICAL SYSTEMS. Thermal Zone winter dry b	E SUMMARY FOR ALL COMMERCIAL PROMECHANICAL DESIGN (SEE MECHANICAL DRAWINGS)  MECHANICAL SUMMARY , SERVICE SYSTEMS AND EQUIPMENT

N/A

Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Size category. If oversized, state reason.: Chiller Size category. If oversized, state reason.: List equipment efficiencies:

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

winter dry bulb:

summer dry bulb:

relative humidity:

Mechanical Spacing Conditioning System

Building heating load:

Building cooling load:

(SEE ELECTRICAL DRAWINGS) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT **Method of Compliance:** Select one **Lighting schedule** (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1) C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.7 Reduced Energy Use in Service Water Heating

C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System



Constructors

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**PLANWORX** 

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PROGF	ISSUE DATE:	REVISIONS: NUMBER						
PROGRESS DATE:	DATE:	: DATE						
۸TE:		INITIALS						
	03-16-23	INITIALS DESCRIPTION						

001123 PROJECT NO: DRAWN BY:

RW, MM

CHECKED BY: SHEET TITLE:

Garage Type 1 Code Summary

SHEET NUMBER:

Smoke Barrier Separation

enant/Dwelling Unit/

Sleeping Unit Separation

Indicate section number permitting reduction

moke Partition

PANEL REY S A — Type ARX, GREX, GRIX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min), PRX2 (finish rating 21 min) SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

ISG MEXICOSA DECV— Type AR (finish rating 24 min), Type (P. (finish rating 24 min), Type WRX (finish rating 24 min), Type WRX (finish rating 24 min), Type IP-X1 (finish ating 24 min), Type IP-X2 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type IP-X3 (finish rating 24 min), Type IP-X4 (finish rating 24 min), Type IP

3A. **Gypsum Board\***— (As an alternate to Item 3) — 5/8 in, thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in, long Type W coarse thread gypsum panel steel screws spaced a max 8 in, O.C, with last screw 1 in, from edge of board. When used in widths of other than 48 in, gypsum boards are to be installed horizontally. AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LighttRoc (finish rating 25 min.)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IP-XI (finish rating 24 min), Type WRC (fini NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

3B. Gypsum Board\* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long

UNITED STATES GYPSUM CO - Types AR, IP-AR

UNITED STATES GYPSUM CO — Type SHX USG MEXICO S A DE C V — Type SHX

3L. Gypsum Board\* — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in, thick lead backed gy

3M. Gypsum Board\*— (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the face layer screw length to be increased to 2-1/2 in. Lead battent strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 fit long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-1-2.01f. Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2, in. Type 5-12 back head steel screws, one

strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards undermeath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-1-201f, Grade "C".

3E. **Gypsum Board\*** — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in, long Type W coarse thread gypsum panel steel screws spaced a max 8 in, OC, with last 2 screws 1 and 4 in, from edge of board or nalied 7 in, OC with 6d cement coated nalis 1-7/8 in, long, 0.091 Sin, shank diam and 15/64 in, diam heads, When used in widths of other than 48 in, gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM LLC — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3G. Gypsum Board\* — (As an alternate to Items 3 through 3F) — 5/8 in, thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement

3). Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W

3K. Gypsum Board\* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-14 in. long Type W. coarset thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min.), Type FSK-(finish rating 20 min.), Type FSW-2 (finish rating 24 min.), Type FSW-3 (finish rating 22 min.), Type FSW-3 (finish rating 22 min.), Type FSW-6 (finish rating 20 mi

RAY-BAR ENGINEERING CORP — Type RB-LBG (finish rating 24 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — , Type USGX (finish rating 22 min.)

coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. NATIONAL GYPSUM CO — Type SBWB

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

warse urread gypsum panel steel screws spaced a maximum of 12 in. OC. CERTAINTEED GYPSUM INC — Type SilentFX

USG MEXICO S A DE C V — Type USGX (finish rating 22 min.)

Resilient Chambels — Formed of No. 25 NGS gain values, spaced 24 in. OC, and perpendicular to study. An extension security of the property of

drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip 6F. Steel Framing Members\* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tled together with double strand of No. 18 SWG galv steel wire near each end of overlaps. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping 46 framing sort min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. Steel Framing Members\* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in, OC., and secured to studs with No. 8 x 2-1/2 in, coarse

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.

C. Item 5, above — Batts and Blankets\* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.

D. Item 6, above — Steel Framing Members\* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly. E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control. F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC ratio

10. Wall and Partition Facings and Accessories\* — (Optional, Not Shown) — Nominal 1/2 in, thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required IC Idsalfied grypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.

UL Classified Gypsum Board.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510 11. Cementitious Backer Units\* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4

12. Non-Bearing Wall Partition Intersection — (Optional) —Two nominal 2 by 4 in, studs or nominal 2 by 6 in, studs nailed together with two 3 in, long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in, stud with 3 in, long 10d nails spaced a max. 16 in. OC. vertically, Intersection between partition wood studs to be flush with the 2 by 4 in, studs. The wall partition wood studs are to be framed by with a second 2 by 4 in, wood stud fastened with 3 in, long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity, Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

**PLANWORX** ARCHITECTURE 5711 SIX FORKS ROAD, SUITE 100

RALEIGH NC 27609 website www.planworx.com ARCHITECX CERT. NO.

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RW, MM

PROJECT NO: DRAWN BY:

CHECKED BY:

SHEET TITLE: **UL** Details

SHEET NUMBER:

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5C. Alternate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 75 sg in, with the length not to exceed 8-9/16 in. and the width not to exceed 8-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 38 sg in, per 100 sg ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturers installation instructions provided with the damper. A plastic grille shall be installed in accordance

with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt PLITEQ INC — Type Genie Clip 6D. **Steel Framing Members\*** — (Not Shown) — As an alternate to Items 6, 6A, 6B and 6C. a. Main runners — Installed perpendicular to trusses — Nom 10 or 12 ft long, 15/16 in, or 1-1/2 in, wide face, spaced 4 ft OC. Main

runners hung a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face or cross channels, nom 4 ft long, 1-1/2 wide face, installed perpendicular to the main runners, spaced 16 in, OC. Additional cross tees or channels used at 8 in, from each side of butted gypsum board end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC. CGC INC — Type DGL or RX

6E. Alternate Steel Framing Members\* — (Not Shown) — As an alternate to items 6, 6A, 6B, and 6C, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members\* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and ecured to the bottom of the trusses with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furrin channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7. STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

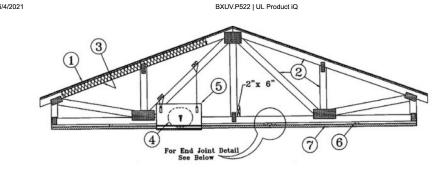
6F. Steel Framing Members\* — (Not Shown) — As an alternate to Items 6 through 6E- Not for use with Items 3 or 3A. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in, OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be eted or screw attached to the wall angle or channel to facilitate the ceiling installation. USG INTERIORS LLC — Type DGL or RX

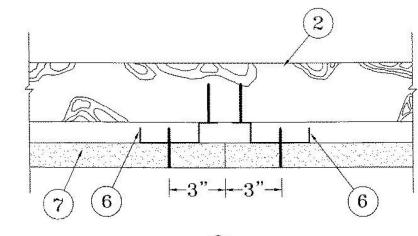
6G. Resilient Channels — For Use With Item 7B - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each  $side\ edge\ of\ panel.\ Insulation,\ Item\ 3C\ is\ applied\ over\ the\ resilient\ channel/gypsum\ panel\ ceiling\ membrane.$ 

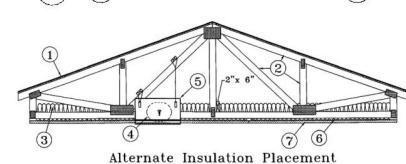
6H. Alternate Steel Framing Members\* — (Not Shown) — As an alternate to items 6 through 6G, furring channels and Steel Framing Members as described below. a. Furring Channels — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in deep, spaced 16 in OC, perpendicular to trusses. When insulation, Items 3 or 3A is used, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to joists as described in Item b.

b. Steel Framing Members\* — Used to attach furring channels (Item a) to the wood trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7. REGUPOL AMERICA — Type SonusClip

https://iq.ulprospector.com/en/profile?e=14619







I. Roofing System\* — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 15/32 in, thick wood structural panels, min, grade "C-D" or "Sheathing", Nom 15/32 in, thick wood structural panels secured to trusses with No. 6d ringed shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance

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BXUV.P522 | UL Product iQ 5D. Alternate Ceiling Damper\* — Ceiling damper & fan. Max nom area shall be 75 sq in. with the length not to exceed 9-1/4 in. and the width not to exceed 9-3/4 in. Max height of damper shall be 9-7/8 in. Aggregate damper openings shall not exceed 45 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, ructions provided with the damper. A plastic grille shall be installed in accordance with installation **DELTA ELECTRONICS INC** — Model SIG-CRD

5E. Alternate Ceiling Damper\* — Max nom area shall be 144 sg in, with the length not to exceed 14 in, and the width not to exceed 12 in. Max height of damper shall be 17-7/8 in. Aggregate damper openings shall not exceed 74 sq in. per 100 sq ft of ceiling area. C&S AIR PRODUCTS — Model RD-521-90, RD-521-NP90

POTTORFF — Models CFD-521-90, CFD-521-90NP

https://iq.ulprospector.com/en/profile?e=14619

5F. Alternate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 131 sq in. with the length not to exceed 11 I/16 in. and the width not to exceed 11-7/8 in. Aggregate damper openings shall not exceed 66 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's nstallation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.  $\overline{ \text{DELTA ELECTRONICS INC}} - \text{Model SMT-CRD}$ 

5G. Alternate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 103 sg in, with the length not to exceed 10-1/8 in. and the width not to exceed 10-1/8 in. Aggregate damper openings shall not exceed 52 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer installation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. PANASONIC CORPORATION, PANASONIC CORPORATION OF NORTH AMERICA — Model PC-RD05C5

5H. Alternate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 113 sq in. with the length not to exceed 10-1/8 in. and the width not to exceed 11-1/8 in. Aggregate damper openings shall not exceed 57 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's nstallation instructions provided with the damper. A plastic grille shall be installed in accordance with installation instructions.

51. Alternate Ceiling Damper\* — Ceiling damper & fan. Max nom area shall be 79 sq in. with the length not to exceed 10 in. and the width not to exceed 7-15/16 in. Aggregate damper openings shall not exceed 40 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation instructions provided with the damper. A metallic grille shall be installed in accordance with installation instructions. **BROAN-NUTONE L L C** — Models RDJ1 and RDH

ernate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 87 sg in. with the length not to exceed 9 in and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation s provided with the damper. A plastic grille shall be installed in accordance with installation instructions. BROAN-NUTONE L L C - Model RDMWT

5K. Alternate Ceiling Damper\* — Ceiling damper & fan assembly. Max nom area shall be 87 sq in. with the length not to exceed 9 in. and the width not to exceed 9-11/16 in. Aggregate damper openings shall not exceed 44 sq in. per 100 sq ft of ceiling area. Damper shall be installed in combination with one of the fan models described in, and in accordance with, the manufacturer's installation structions provided with the damper. A plastic grille shall be installed in accordance with installation instructions. BROAN-NUTONE L L C — Model RDMWT2

6. Furring Channels — Resilient channels formed of 25 MSG thick galv steel. Installed perpendicular to the trusses (Item 2), spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane, or when insulation (Item 3B, 3D or 3E) is applied to the underside of the roofing system (Item 1). Two courses of resilient channel positioned 6 in. OC at wallboard

7. Gypsum Board\* — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached

to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in

the field when no insulation (Item 3 or 3A) is fitted in the concealed spaced, or a max of 8 in. OC along butted end-joints and in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling

When Steel Framing Members\* (Item 6A or 6C) are used, sheets installed with long dimension perpendicular to furring channels and side joints when steer raining wentubers (tern ow or or are sizes, visited) in state that the steer raining wentubers (tern ow or or are sizes, visited) in state of sheet located beneath trusses. Gypsum board screws are driven through channel spaced 12 in. OC in the field when no insulation (Item 3 or 3A) is fitted in the concealed space, or 8 in. OC in the field when insulation (Item 3 or 3A) is fitted in the concealed space, draped over the furring

hannel/gypsum board ceiling membrane. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the mair

the width of the wallboard plus 6 in. on each end. The furring channels shall be supported by a single length of furring channel equal to the width of the wallboard plus 6 in. on each end. The furring channels shall be supported by 3-1/2 in. OC, and be attached to the trusses

with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Second (outer) layer of gypsum board required when furring channels (Item 6A, a) are spaced 24 in. OC and insulation is fitted in the concealed

space, draped over the furring channel/gypsum board ceiling membrane. Outer layer of gypsum board attached to the furring channels using 1

5/8 in, long Type S bugle-head screws spaced 8 in, OC at butted joints and 12 in, OC in the field. Butted end joints of outer layer to be offset

ninimum of 8 in. from base layer end joints. Butted side joints of outer layer to be offset minimum 18 in. from butted side joints of base layer

When Steel Framing Members (Item 6B) are used, two layers of nom 5/8 in. thick, 4 ft wide gypsum board are installed with long dimensions

steel screws spaced 8 in. OC at butted end joints and 12 in. OC in the field. Butted end joints centered on the con

joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

from the side joints and max 8 in. OC in the field of the board.

perpendicular to furring channels (Item 6Ba). Base layer attached to the furring channels using 1 in. long Type S bugle head steel screws spaced 8 in. OC along butted end joints and 12 in. OC in the field of the board. Butted end joints centered on the continuous furring channels. Butted base layer end joints to be offset a min of 16 in. in adjacent courses. Outer layer attached to the furring channels using 1-5/8 in. long Type S bugle head

offset a min of 16 in. from butted end joints of base layer. Butted side joints of outer layer to be offset min 16 in. from butted side joints of base

perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. Of in the field of the board. Gypsum board butted end joints shall be staggered minimum 72 in. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end, spaced

approximately 2 in. in from joint. Screw spacing along the gypsum board butt joint shall be 8 in. OC. Butt joint furring channels shall be attached

with a RESILMOUNT Sound Isolation Clip secured to underside of every truss that is located over the butt joint. Over all Gypsum Board side joint

approximate 20 in. length of channel. Both Gypsum Boards at side joints fastened into channel with screws spaced 8 in. OC, approximately 1/2 in.

perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC

gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from end joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt

When alternate Steel Framing Members\* (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board sheets installed with long

dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer

strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in.

drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the

packer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in

in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6

in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall

extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with

When Steel Framing Members (Item 6H) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimens perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC

in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the

approximately 20 in. lengths of furring channel shall be installed parallel to trusses (Item 2) between main furring channels. Side joint furring

channels shall be attached to underside of the joist with RESILMOUNT Sound Isolation Clips - located approximately 2 in. from each end of th

When Steel Framing Members (Item 6E) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimension

When Steel Framing Members (Item 6C) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensic

membrane. When insulation (Item 3B, 3D or 3E) is installed in the concealed space, spray-applied to the underside of the roofing

system (Item 1), screws are spaced a max of 8 in. OC along resilient channels, fasteners are increased in length to 1-1/4 in, and gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels.

BXUV.P522 | UL Product iQ

KINETICS NOISE CONTROL INC — Type ICW.

used - Ratings limited to 1 Hour - 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel gypsum board screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long gypsum board screws sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

UNITED STATES GYPSUM CO — Type C or IP-XX

7B. Gypsum Board\* — For use with Items 3C and 6G. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board. Alternate Ceiling Membrane — Not Shown.

9. Netting — Fibrous, woven netting material fastened to underside of each joist with staples, with side joints overlapped. \* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Service. Always look for the Mark on the product UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission

https://iq.ulprospector.com/en/profile?e=14619

insulation is secured to the decking.

both lower edges of the rafters creating a cavity to accept the cellulose fiber.

INS735, INS765LD, and INS773LD are to be used for dry application only.

(Item 6G)/gypsum board (Item 7B) ceiling membrane.

foam insulation. Not evaluated for use with Items 6A through 6F.

BXUV.P522 | UL Product iQ butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath wood trusses. Channels secured to each truss with 1-1/4 in. long Type S screws.

BXUV.P522 | UL Product iQ

2. Trusses — 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. 0.0356 in. thick galv 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 opposite each other for each pai

The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth 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 walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets ( Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of

3. Batts and Blankets\* — (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 0.090 in. diam galv steel wires spaced 12 in. OC. Any glass fiber insulation bearing

the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an

friction-fitted between trusses and Steel Framing Members (Item 6Bd). The finished rating has only been determined when the

3A. **Fiber, Sprayed\*** — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray-applied cellulose

when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with

insulation material, having a min density of 0.5  $lb/ft^3$ , applied with water, over the resilient channel/gypsum board ceiling membrane

moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Sprayed 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 3.5 lb/ft<sup>3</sup> behind netting (Item 9) stapled to the rafters. The netting is stapled at

S GREENFIBER L L C — INS735, INS745, INS750LD, and SANCTUARY for use with wet or dry application. INS510LD, INS515LD, INS541LD,

underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft<sup>3</sup> density, while maintaining a minimum 8-1/2 in. clearance between the spray foam insulation and the gypsum board (Item 7). When

3B. Foamed Plastic\* — (As an alternate to Item 3 or 3A, Not Shown) — Spray foam insulation applied directly to the underside of the

spray foam insulation is used, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of

(Item 7) to be installed using 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Items 5 through 5K) in

3C. Cavity Insulation - Batts and Blankets\* or Fiber, Sprayed\* — (As described above) in Items 3 and 3A — (For Use with Item 7B,

Not Shown) — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel

3D. Foamed Plastic\* — (As alternate to Item 3, 3A, or 3B, Not Shown) — Spray foam insulation applied directly to the underside of the roofing system (Item 1). Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft<sup>3</sup> or 2.0 lb/ft<sup>3</sup>

density, depending on the product installed. When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in, OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in, away from gypsum butt

joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end

joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire

damper (Items 5 through 5H) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray

BASF CORP — Enertite® NM, Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and

gypsum board (Item 7) installed at 6 in. OC to allow for maximum 3 in. spacing off ends of the gypsum board joints. Gypsum board

the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated

option, the insulation may be fitted in the concealed space, draped over the resilient channel/gyosum board ceiling membrane when

resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. When Steel Framing Members (Item 6B) are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6Ba) and gypsum board ceiling membrane, and

6A. Steel Framing Members\* — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described a, Furring Channels — Formed of No. 25 MSG galy steel, 2-9/16 in, or 2-23/32 in, wide by 7/8 in, deep, spaced 16 in, OC perpendicular to trusses when no insulation (Items 3 or 3A) is fitted in the concealed space or 12 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane or 24 in. OC when insulation (Items 3 or 3A) is fitted in the concealed space, draped over the furring channel/gypsum board ceiling membrane and a second layer of gypsum board is attached as described in Item 7 for steel framing members. Channels secured to trusses as described in Item 6Ab. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of

b. Steel Framing Members — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to alternating trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to alternating trusses with No. 8 by 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item 6Aa. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

6B. Steel Framing Members\* — (Not Shown) — As an alternate to Items 6 and 6A. a. Furring Channels — Hat-shaped furring channels, 7/8 in. deep by 2-5/8 in. wide at the base and 1-1/4 in. wide at the face, formed from No. 25 ga, galv steel, spaced max 16 in. OC perpendicular to trusses and Cold Rolled Channels (Item 6Bb), Furring channels secured to Cold Rolled Channels at every intersection with a 1/2 in. pan head self-drilling screw through each furring channel leg. Ends of adjoining channels overlapped 4 in. and tied together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap. Supplemental furring channels at base layer and outer layer gypsum board butt joints are not required. Batts and Blankets draped over furring channels as described in Item 3. Two layers of gypsum board attached to furring channels as described in Item 7

b. Cold Rolled Channels — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to trusses, frictionfitted into the channel caddy on the Steel Framing Members (Item 6Bd). Adjoining lengths of cold rolled channels lapped min. 6 in. and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Blocking** — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 6 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the truss (Item 2) at the top and bottom of the blocking at each Steel Framing Member (Item 6Bd) location.

d. Steel Framing Members\* — Hangers spaced 48 in. OC. max along truss, and secured to the Blocking (Item 6Bc) on alternating trusses with a single 5/16 in. by 2 in. hex head lag bolt or four #6 1-1/4 in. drywall screws through mounting hole(s) on the hanger bracket. The two 1/4 in, long steel teeth on the hanger are embedded in the side of the blocking. Hanger positioned on blocking and leveling bolt height adjusted such that furring channels are flush with bottom of trusses before gypsum board installation. Spring

6C. Steel Framing Members\* — (Not Shown) — As an alternate to Items 6, 6A and 6B a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep installed perpendicular to wood structural members. Channels spaced a max of 16 in. OC when no insulation (Item 3 or 3A) is fitted in the concealed space or a max of 12 in. OC when insulation (Item 3 or 3A) is fitted in the concealed space. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members\* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips secured to the bottom chord of each truss (48 in. OC) with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. As an alternate, ends of adjoining channels may be overlapped 6 in, and secured together with two self-tapping No. 6 framing screws, min 7/16 in, long at the midpoint of the overlap.

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UNITED STATES GYPSUM CO — Types C. IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type O

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

7A. Gypsum Board\* — For use with Steel Framing Members (Item 6D) when Batts and Blankets\* (Item 3) are not used - One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Gypsum board fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span and one screw located 1-1/2 in. from each gypsum board side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At gypsum board end joints gypsum board screws shall be located 1/2 in. from the joint. Gypsum board fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent gypsum board sheets shall be staggered not less than 32 in. Gypsum board sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members\* (Item 6D) when Batts and Blankets\* (Item 3) are spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the CGC INC — Type C or IP-X2

USG BORAL DRYWALL SFZ LLC — Type C

under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up

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

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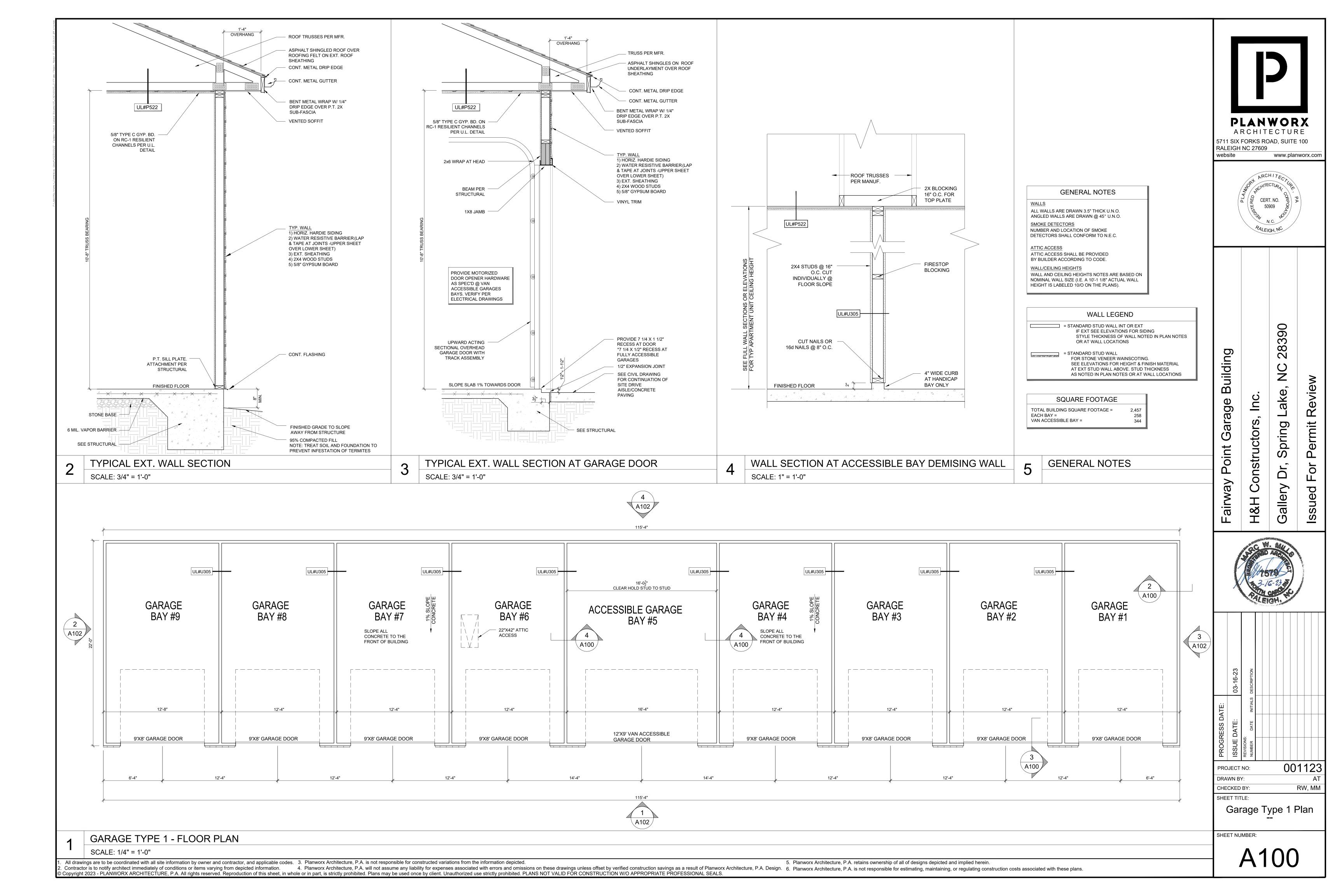
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CGC INC — Types C, IP-X2, IPC-AR

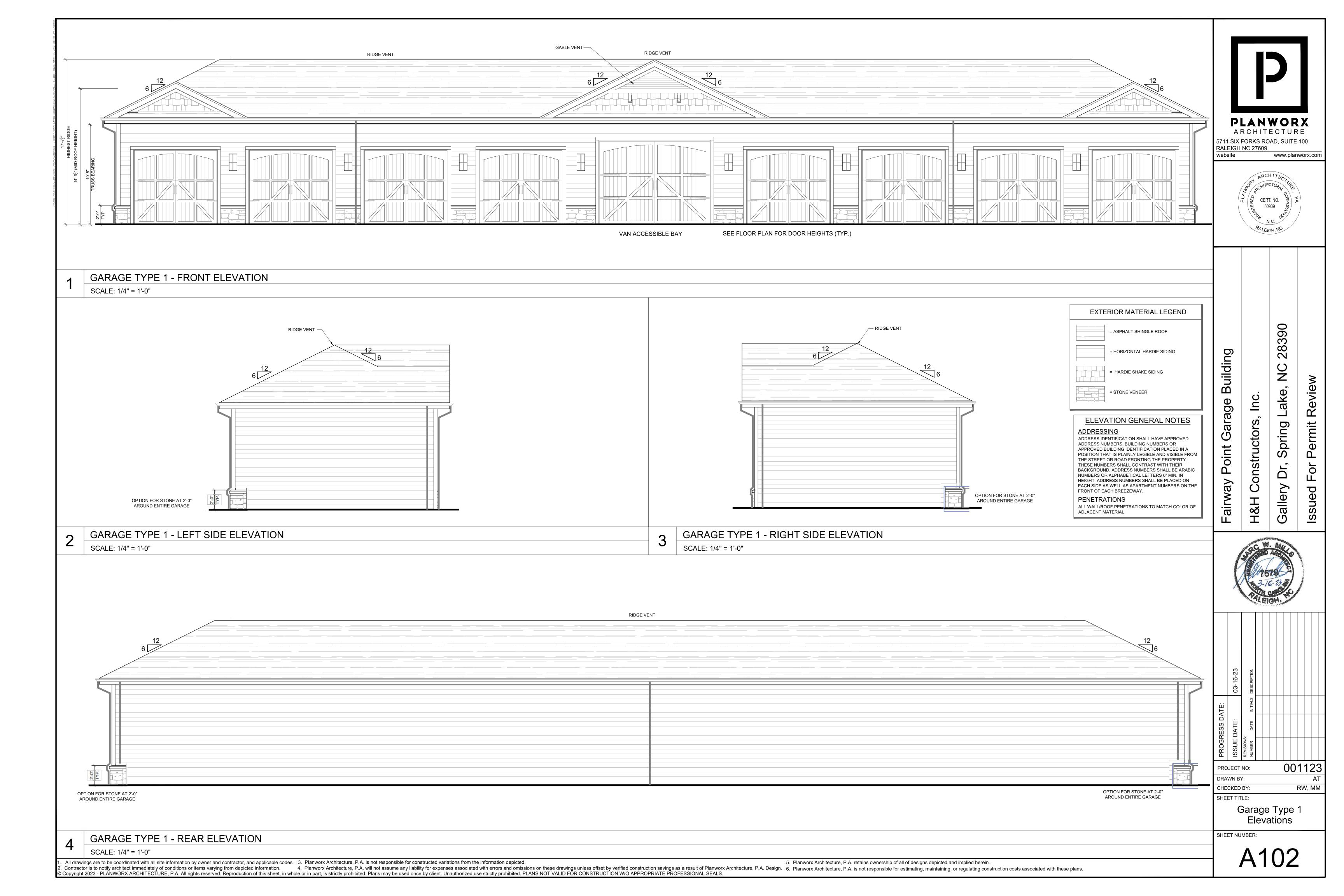
https://iq.ulprospector.com/en/profile?e=14619



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 **PLANWORX** - ROOF/WALL INTERSECTIONS - EAVES ARCHITECTURE - RIDGES - HIPS 5711 SIX FORKS ROAD, SUITE 100 RALEIGH NC 27609 D.S. = DOWNSPOUT website www.planworx.com 3 Building 2 Z Reviev Lake, Garage Constructors, Spring ermit oint Δ Fairway Gallery Issued H&H 6:12 6:12 6:12 6:12 6:12 6:12 1.4" TYP. U.N.O. U.N.O. **Roof Ventilation** A Ceiling area (square footage)
B Sqft. of ventilation required 001123 PROJECT NO: Formulas: B = A / 150DRAWN BY: Builder to calculate quantities and types of vents to make up the RW, MM CHECKED BY: minimum requirement. Attic ventilation shall be approximately 50% SHEET TITLE: soffit, and 50% high (gable end or ridge vents). Garage Type 1 Roof Plan SHEET NUMBER: GARAGE TYPE 1 - ROOF PLAN SCALE: 1/4" = 1'-0" 5. Planworx Architecture, P.A. retains ownership of all of designs depicted and implied herein. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes. 3. Planworx Architecture, P.A. is not responsible for constructed variations from the information depicted. . Contractor is to notify architect immediately of conditions or items varying from depicted information.

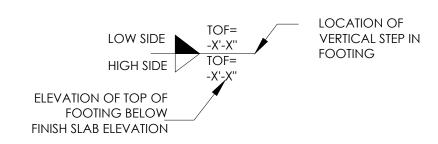
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## **FOUNDATION NOTES:**

- 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. 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 HOLDOWNS. REFER TO HOLD DOWN SCHEDULE FOR MORE INFORMATION. HOLDOWNS HAVE BEEN DESIGNED TO RESIST OVERTURNING MOMENTS FROM SEISMIC AND WIND LOADS. ANY SUBSTITUTIONS MUST BE APPROVED
- 11. PREPARE SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS.



SHEAR WALL SCHEDULE	
EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING. BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS. 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 SC	CHEDULE	
SUPPORTING	EXTERIOR WALLS	INTERIOR NON BEARING WALLS
ROOF	(1) 2x4 @ 16" O.C.	(1) 2x4 @ 16" O.C.





## HOLDOWN SCHEDULE (HD)

LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HTT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

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

### **ABBREVIATIONS:**

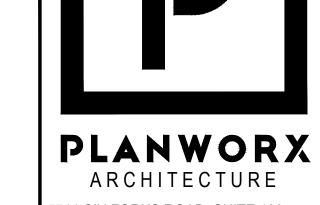
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COL. COLUMN EXISTING SLAB ON GRADE T.O.S. TOP OF STEEL T.O.P. TOP OF PARAPET TOP OF MASONRY O.C. ON CENTERS SPACING T+B TOP AND BOTTOM F.F.E. FINISH FLOOR ELEVATION TYP. TYPICAL DEMO. DEMOLITION CONT. CONTINUOUS CMU CONCRETE MASONRY UNIT STD. STANDARD XS. EXTRA STRONG XXS. DOUBLE EXTRA STRING GALV. GALVANIZED HD HOLDDOWN

WIRE WELDED FABRIC

ROOF TRUSS

**GIRDER TRUSS** FLOOR TRUSS



5711 SIX FORKS ROAD, SUITE 100 RALEIGH NC 27609

website



4506 PEARCES RD. ZEBULON,NC 27597

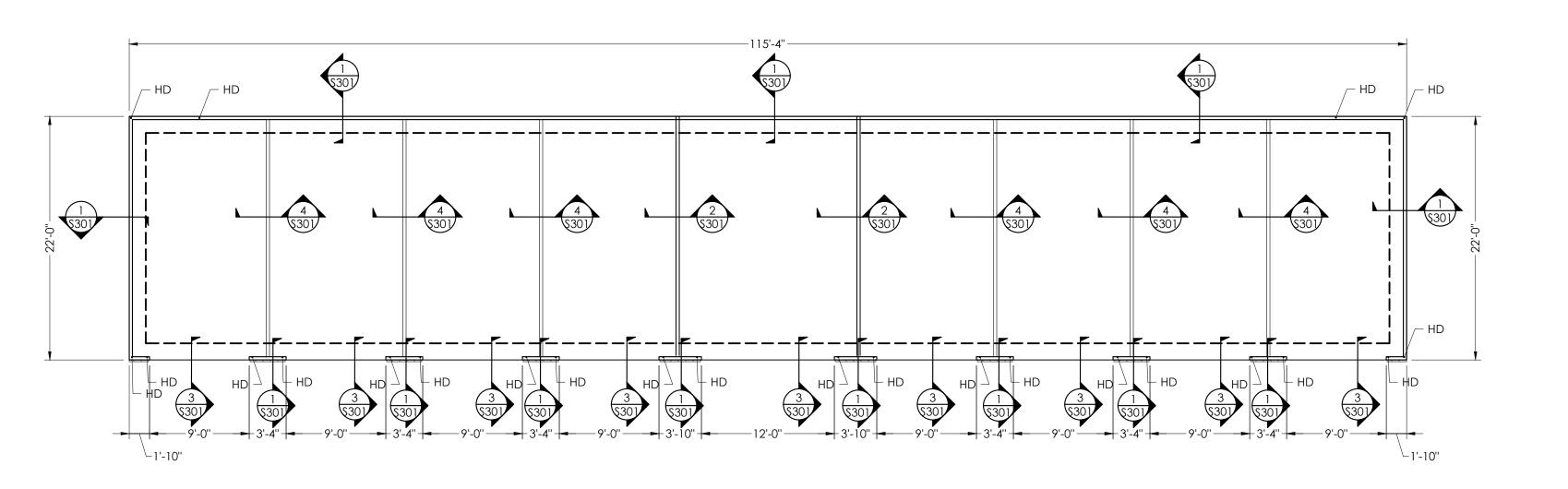
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Fairway Point Garage Building	H&H Constructors, Inc.	Gallery Dr, Spring Lake, NC 28390	Issued For Permit Review
Fairw	H&H	Galler	Issue

	03.16.2023	INITIALS DESCRIPTION								
\TE:		INITIALS								
PROGRESS DATE:	DATE:	DATE								
PROGR	ISSUE DATE:	REVISIONS: NUMBER	$\triangleleft$							
PRO	PROJECT NO: 00112								2	

DRAWN BY:

CHECKED BY: Garage Building Foundation Plan



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

## **ROOF FRAMING NOTES:**

- 1. ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC COL. ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION.
- TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LATOUIS AND COORDINATE ...... S.O.G. BEARING WALL AND BEAM LOCATIONS. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR T.O.S.
- 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 TYP.
- BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS. ROOF SHEATHING SHALL BE 7/16" OSB APA RATED, EXPOSURE 1 WITH "H" CLIPS AT DEMO. UNSUPPORTED EDGES BETWEEN TRUSSES. SEE DETAIL 1/S401 OR 2/S401 FOR ROOF DECK

  NAMED PATTERN

  CONT.

  CMU
- NAILING PATTERN. VERIFY LOCATION AND AMOUNTS OF ALL HEADERS.
- PRE-FABRICATED TRUSS OVER-BUILD FRAMING. ROOF SHEATHING SHALL BE CONTINUOUS BENEATH TRUSS OVER-BUILD. PROVIDE ATTACHMENT OF OVERBUILD FRAMING TO ROOF SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER SEE 12/5402 SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER. SEE 12/S402
- SEE DETAIL 6/S401 FOR TOP PLATE SPLICE DETAIL.
- 10. SEE DETAILS 3/S401 AND 4/S401 FOR PERMANENT ROOF TRUSS BRACING. 11. PROVIDE MIN. (3) 2X STUDS BELOW ALL GIRDER TRUSS BEARING POINTS PROVIDE LGT TIE

  OOWN (U.N.O.) SEE DETAIL 9/S402 PROVIDE HTT4 HOLDOWN AT FOUNDATION

  RT
  GT
- DOWN (U.N.O). SEE DETAIL 9/S402. PROVIDE HTT4 HOLDOWN AT FOUNDATION. 12. ANY TRUSS TIE DOWN SUBSTITUTIONS MUST BE APPROVED BY THE EOR
- 13. 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:** SHEAR WALL SCHEDULE

SLAB ON GRADE TOP OF STEEL TOP OF PARAPET

TOP OF MASONRY

TOP AND BOTTOM

TYPICAL

DEMOLITION

CONTINUOUS

STANDARD

EXTRA STRONG

GALVANIZED

HOLDDOWN

**ROOF TRUSS** 

**GIRDER TRUSS** 

FLOOR TRUSS

ON CENTERS SPACING

FINISH FLOOR ELEVATION

CONCRETE MASONRY UNIT

DOUBLE EXTRA STRING

WIRE WELDED FABRIC

EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING. BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS. 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.								

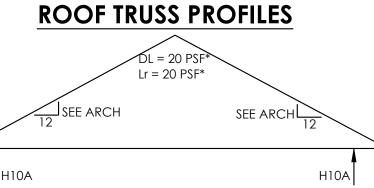
	HEADER SCHEDULE											
ГҮРЕ	SIZE	NOTES	SUPPORT									
Н1	(2) 1 3/4"x9 1/4" LVL	Fb = 2800 PSI, E= 2.0	(2) JACK + (2) KING									

## HOLDOWN SCHEDULE (HD)

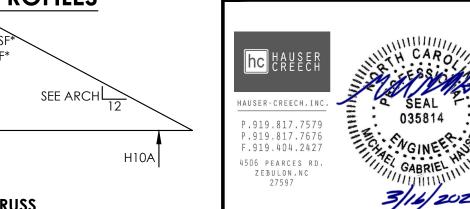
LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HTT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

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





TYP. ROOF TRUSS



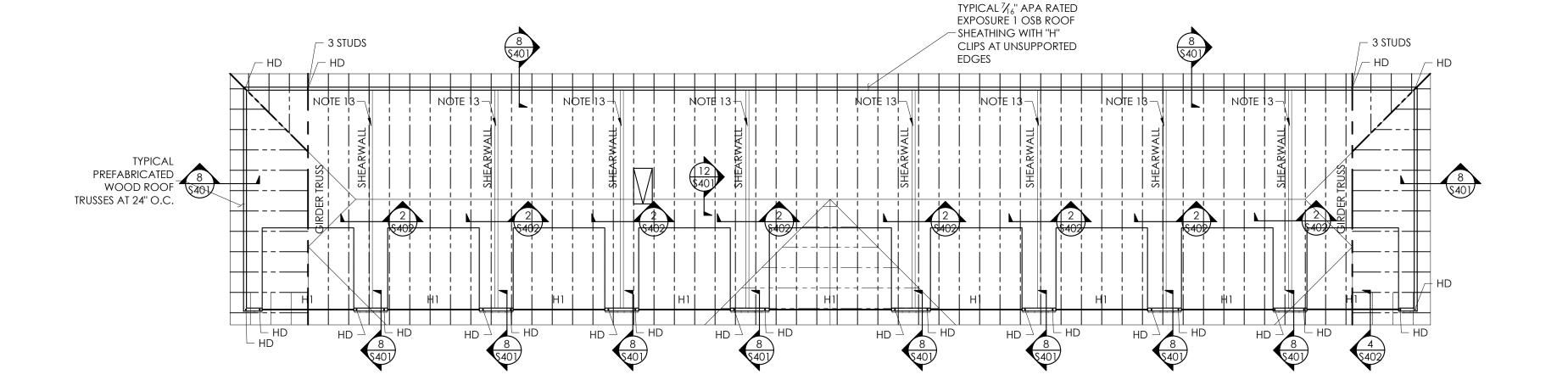
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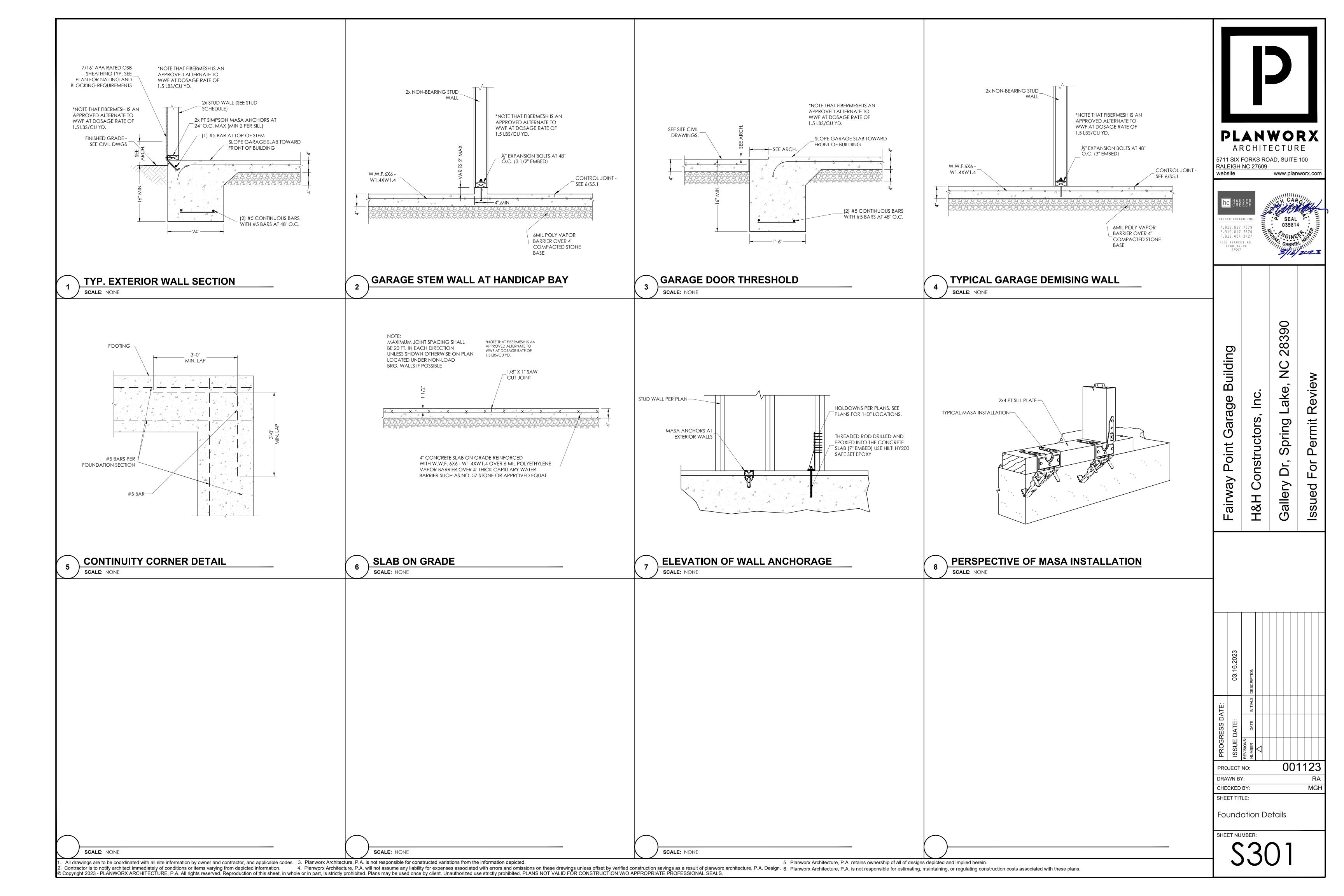
Garage Building Roof Framing

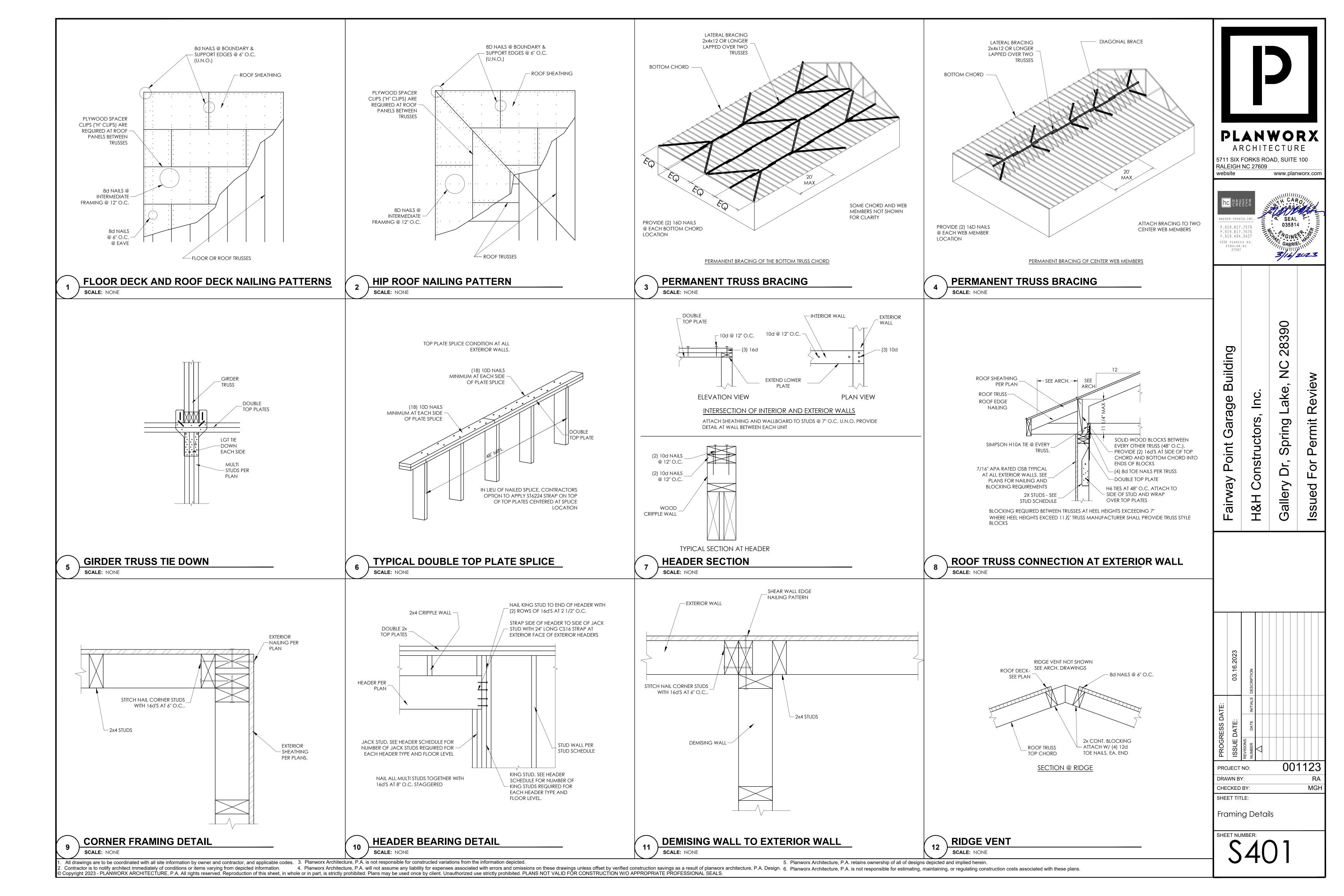
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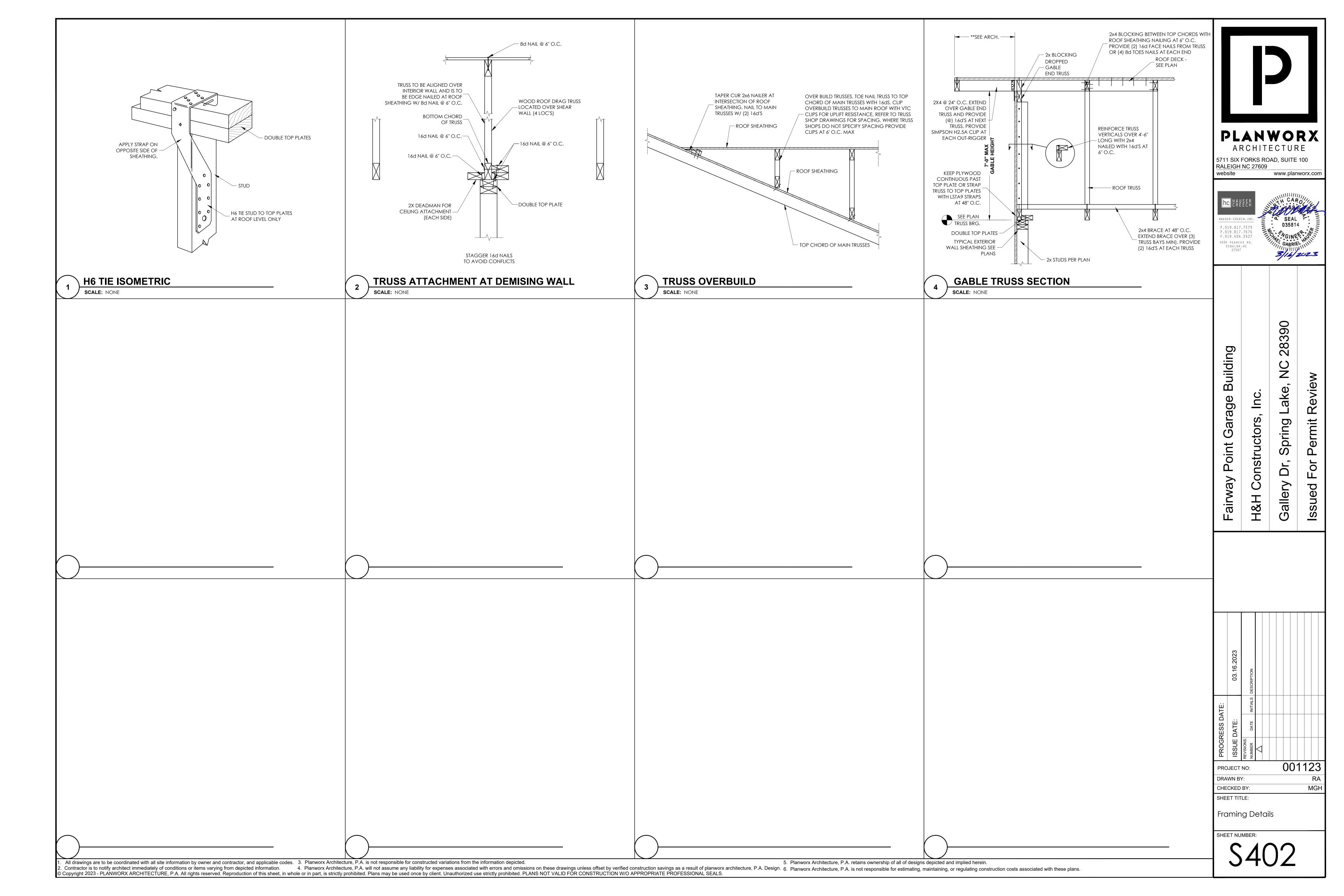
CHECKED BY:



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







#### **FOUNDATION NOTES:**

- 1. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING VALUE OF 2000 PSF
- 2. 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, WHICH EVER IS GREATER. (U.N.O.)
- 4. 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.
- 5. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

#### REINFORCED CONCRETE:

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318, 05)
- 2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
- 3. 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.
- 4. 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
- 5. LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 36" MIN., AND #6 REINFORCING BARS SHALL BE 43" MIN., UNLESS SUBMITTED AND APPROVED OTHERWISE.

6. CLEAR CONCRETE COVER FOR REINFORCING STEEL:
WALLS:
3" CAST AGAINST GROUND
2" FORMED EDGES
FOOTINGS:
2" FORMED EDGES
3" CAST AGAINST GROUND
SLAB ON GRADE:
MID-HEIGHT OF SLAB

- 6. THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- 7. 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
- 8. 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.
- 9. MAXIMUM COARSE-AGGREGATE SIZE: 3/4 INCH NOMINAL.
- 10.PORTLAND CEMENT: ASTM C 150/C 150M, TYPE I
- 11. COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1.
- 12.HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.
- 13.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
- 14.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
- 15. ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

#### **DESIGN INFORMATION:**

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND

OCCUPENCY 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

- 3. 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...
- 4. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 5. FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- 6. 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.
- 7. 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.
- 8. 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):

- 1. 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
- 3. ALL STUDS, TOP PLATES AND SILL PLATES IN BEARING WALLS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- 4. ALL STUDS, TOP PLATES AND SILL PLATES IN NON-BEARING WALLS SHALL BE SPF STUD GRADE OR
- 5. ALL 2x NOMINAL HEADERS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- 6. ALL EXPOSED LUMBER SHALL BE PRESERVATIVE TREATED.
- 7. 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.
- 8. ALL CONNECTIONS IN EXPOSED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- 9. ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED.
- 10. ALL MANUFACTURED LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MODULUS OF ELASTICITY OF 2E6 psi AND A MINIMUM BENDING STRENGTH OF 2800 psi.
- 11.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:

- 1. 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.
- 2. 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.
- 3. TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
- 4. LIMIT LIVE LOAD DEFLECTION TO L/360. LIMIT TOTAL LOAD DEFLECTION TO L/240 OR 1" MAX.

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 2839
Issued For Permit Review

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General Notes and
Special Inspections

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#### GENERAL ELECTRICAL NOTES RECEPTACLES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GENERAL REQUIREMENTS: GRADE EQUAL TO HUBBELL SERIES. GROUND FAULT RECEPTACLES SHALL BE EQUAL TO ELECTRICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, COOPER VGF SERIES. EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK. LIGHTING SWITCHES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES. 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 ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS. SHALL BE DAMP OR WET LABELED AS REQUIRED. ALL ELECTRICAL & LIGHTING EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL . ANY MULTI-WIRE BRANCH CIRCUITS ARE TO PROVIDED WITH MULTI-POLE BREAKERS. ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS. COORDINATION: ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF THE ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT. OPENINGS, ETC). E.C. TO COORDINATE ELEVATION OF WALL MOUNTED LIGHTS (INTERIOR & EXTERIOR) THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE W/ ARCHITECT/ARCH PLANS. FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL E.C. TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT DO NOT SCALE DRAWINGS FOR MEASUREMENT. START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND E.C. TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO 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 . TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING ELECTRICAL MOST RESTRICTIVE SHALL TAKE PRECEDENT. EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS 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

TO CARRY OUT THIS SECTION OF WORK.

BEFORE EQUIPMENT IS ORDERED.

PROPOSED CHANGE ORDER.

THE RESPONSIBILITY OF THE E.C..

DIVISION OF WORK

DISCONNECT RESPONSIBILITY).

ELECTRICAL EQUIPMENT & SYSTEMS.

MATERIALS

PENETRATION DETAIL.

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

AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED,

REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS

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

EXPLICITLY SHOWN AND WORK IMPLIED. UNLESS OTHERWISE NOTED FINAL ELECTRICAL

CONNECTION TO ALL EQUIPMENT, FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC) IS

ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE

RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM

EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR

E.C. IS TO REVIEW COMPLETE DRAWING SET. E.C. IS RESPONSIBLE FOR WORK

WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL

G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS

(WALL, FLOOR, CEILING) RELATED TO ELECTRICAL SYSTEM. E.C. RESPONSIBLE FOR

ELECTRICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING

AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF

G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED CONDUIT. WIRE BOXES FTC. F.C.

ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS

LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS

PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY NEC.

BOX OPENING ALLOWED IN RATED WALLS PER NEC 300.21

INSTALLED IN ACCORDANCE WITH NEC 310.

UNLESS NOTED OTHERWISE.

RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/G.C

OTHERWISE NOTED AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITER'S

ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L.

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

CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS.MINIMUM SIZE

AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER MAY BE

TO SUNLIGHT SHALL BE RATED FOR EXTERIOR USE & SUNLIGHT RESISTANT.

SOLID OR STRANDED, UNLESS OTHERWISE NOTED. CONDUCTOR INSULATION SHALL BE

TYPE THHN UNLESS OTHERWISE NOTED. ALL EXTERIOR CABLE OR OTHER WIRE EXPOSED

ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL

UNDER CONCRETE SLABS, OR IN MASONRY 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. FLEXIBLE 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

ALL NM AND SER CABLE SHOULD BE PROTECTED FROM PHYSICAL DAMAGE AND

METAL CONDUIT COUPLINGS TO BE COMPRESSION TYPE OR THREADED WHEN

ACCESSIBLE TO BUILDING OCCUPANTS. METAL CONDUIT COUPLINGS MAY BE

THAN 10' AFF. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.

ALL TERMINALS/LUGS SHALL BE 60/75° RATED. ALL TERMINALS, SPLICING

THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.

SET-SCREW TYPE WHEN CONCEALED IN BUILDING STRUCTURE OR LOCATED MORE

FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY

CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF

WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN,

OCCUPANCIES ALLOWED BY NEC. NO NM OR SER CABLE MAY BE INSTALLED EXPOSED.

CONDUIT, OR EMT, EXCEPT AS ALLOWED BELOW. EMT SHALL NOT BE USED IN OR

SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG

ELECTRICAL BOXES IN RATED WALLS MUST BE METAL OR LISTED FOR USE IN RATED

COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).

THE EC SHALL PROVIDE SUBMITTALS OF EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR

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

PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2018 NCECC C402.5.1.1 FOR COMMERCIAL PROJECTS & R402.4.2 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 A117.1 AND ADA REQ'S CONCERNING HEIGHT AND ACCESSIBILITY. FHA REQ'S TO BE FOLLOWED FOR MULTI-FAMILY AND RESIDENTIAL

E.C. IS TO CONFIRM EXACT ELECTRICAL NAMEPLATE DATA OF ALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MCA, MOCP, 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 NCBC/IBC SEC 714. OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 16 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. AND 2018 NCBC/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: METACAULK BOX GUARD (METAL BOXES ONLY), METACAULK COVER GUARD, OR METACAULK 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	LAMP DATA		LAMP DATA		VOLTS	BA	LLAST DATA	INPUT	MOUNTING	DESCRIPTION	
MAKK	MANOI.	NUMBER	NO.	TYPE	V OLIS	NO.	TYPE	WATTS	741001411140	DESCRIPTION			
Α	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".			
В	-	-	-	-	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.			

2. ALL LAMPS OF A SINGLE FIXTURE TYPE INSTALLED IN EACH AREA/ROOM/SPACE ARE TO BE OF SAME TEMPERATURE/COLOR.

LIGHTING SYSTEMS NCECC SECTION C405 & C406

LIGHTING POWER DENSITY CALCULATION COMPLIANCE INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

INTERIOR WATTAGE SPECIFIED VS. ALLOWED <u>301</u> VS. <u>516</u> EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.

ADDITIONAL PRESCRIPTIVE COMPLIANCE

C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT

C406.4 ENHANCED DIGITAL LIGHTING CONTROLS

NOT APPLICABLE (RENOVATION PROJECT)

C406.3 REDUCED LIGHTING POWER DENSITY

<u>120</u> VS. <u>2280</u> TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED <u>NA</u> VS. <u>NA</u>

DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE LIGHTING SYSTEMS REQUIREMENTS OF THE NORTH CAROLINA ENERGY CONSERVATION CODE, SECTION C405 & C406 AND ANY LOCAL AMENDMENTS THEREOF.

C406.5 ON-SITE RENEWABLE ENERGY C406.6 DEDICATED OUTDOOR AIR SYSTEM C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

CEILING FIRE ALARM HORN, — DEVICE HEIGHTS ARE TO HORN/STROBE OR BE AS INDICATED UNLESS STROBE. OTHERWISE NOTED. ALIGN DEVICES WHEN MOUNTED CLOSE ON MOUNTED SAME WALL TELEPHONE LIGHT SWITCH -OR DIMMER FIRE ALARM — PULL STATION RECEPTACLE — TELEPHONE OR ¬ L TOP OF COUNTER DATA JACK MAX COUNTER DEPTH = 24" **FLOOR** MOUNTING LOCATIONS OF RECEPTACLES, SWITCHES AND ALL OTHER CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ANSI A117.1 AND ADA REQUIREMENTS (FHA REQ'S FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS)

TYPICAL DEVICE MOUNTING HEIGHTS

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. "GFI" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE. "WP" INDICATES WEATHERPROOF. "EWC" 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

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.

ADJACENT DEVICE, UNLESS OTHERWISE NOTED. COORDINATE EXACT DEVICE TYPE AND

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 ELECTRIC UTILITY METER LOCATION.

RECESSED MOUNTED 2x4 FLUORESCENT TROFFER, SEE FIXTURE SCHEDULE FOR DETAILS.

KITCHEN EQUIPMENT TAG. 4///4 DEMO'D LIGHT FIXTURE OR SIMILAR. DEMO'D RECEPTACLE OR SIMILAR.

SS

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CABLE TV OUTLET, 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED.

ELECTRICAL ABBREVIATIONS

DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF 18" DEVICE IS TO BE MOUNTED. ABOVE FINISHED FLOOR. ABOVE FINISHED GRADE. AFG 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. FIRE ALARM CONTROL PANEL SPRINKLER MONITORING PANEL NIGHT LIGHT, LIGHT NOT SWITCHED.

5711 SIX FORKS ROAD, SUITE 100 RALEIGH NC 27609

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a

or

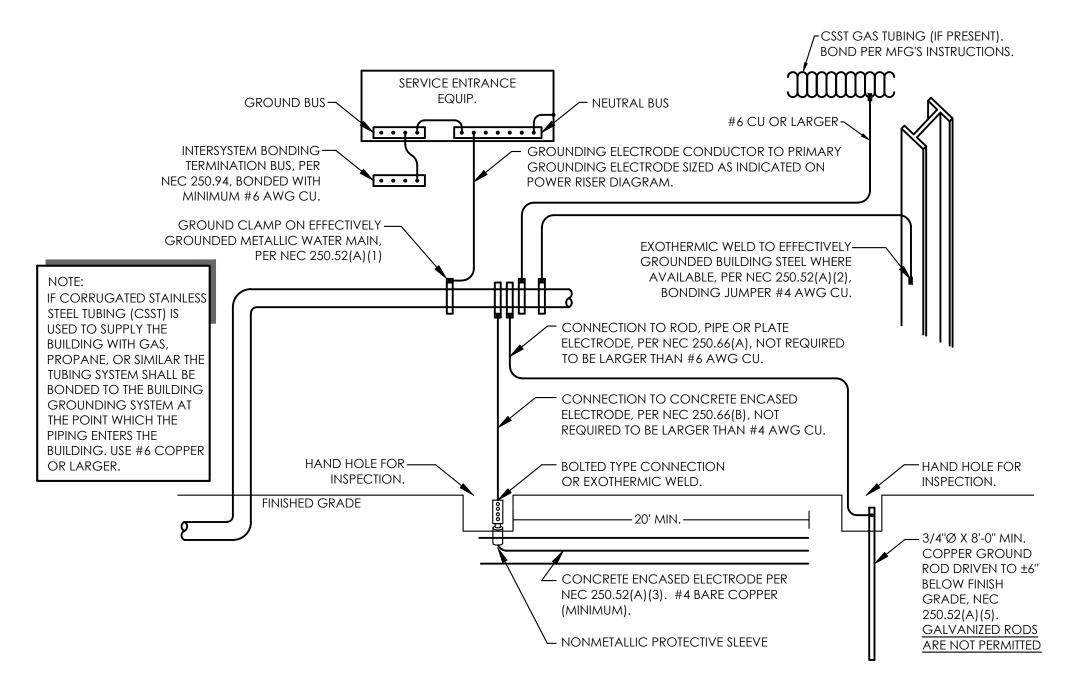
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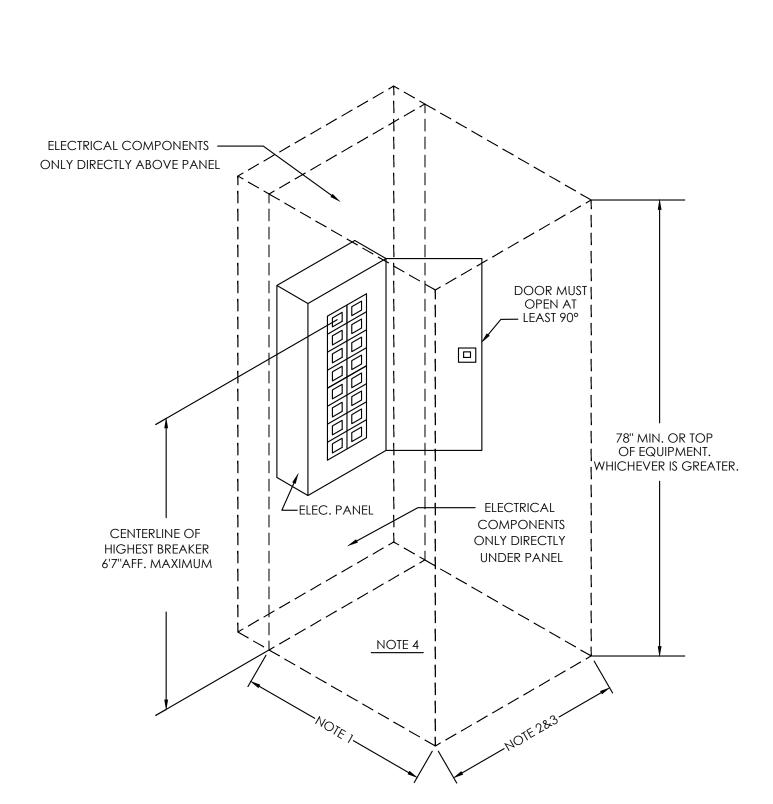
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AND NOTES SHEET NUMBER:



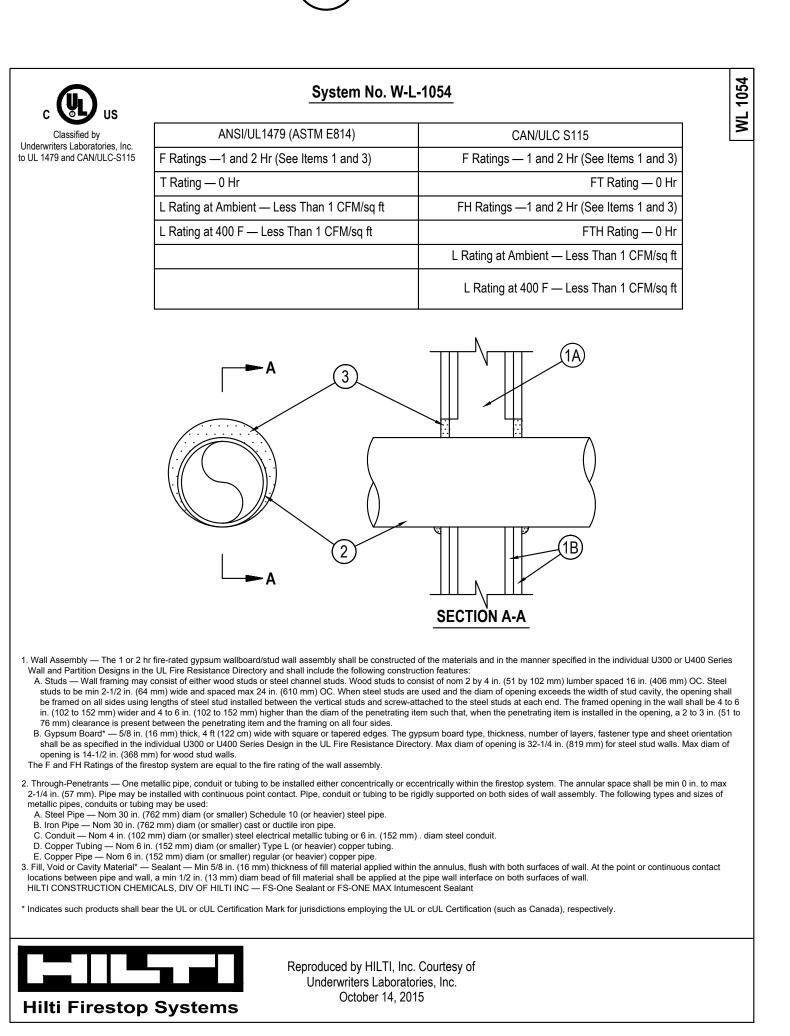
GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM. ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT BE REQUIRED OR AVAILABLE.



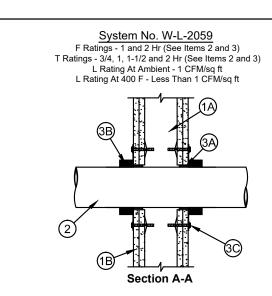


- 1. FROM FACE OF PANEL: 42" MIN FOR 480/277V AND 240/120V 3Ø HIGH LEG DELTA SYSTEMS. 36" MIN FOR 208/120V AND 240/120V SYSTEMS.
- 2. THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER.
- WORKING SPACE DOES NOT HAVE TO BE CENTERED ON PANEL BUT MUST EXTEND TO/PAST EACH
- EDGE OF PANEL. 4. OTHER AREA PANELS MAY SHARE CLEARANCE SPACE.





METALLIC PIPE (GYPSUM WALL) DETAIL



Wall Assembly - The 1 or 2 h fire rated gypsum board/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 nom 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). . 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 support

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 solid or cellular core 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 Scheduled 80 PVC pipe is used in closed (process or supply)

piping systems, the F and T Ratings are 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 (NFPA No. 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.

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) F. Polyvinylidene 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

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 or 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 Throught 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

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

SPECIFIED TECHNOLOGIES INC - SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip C. Steel Collar - Collar fabricated from coils of precut 0.016 in. (0.4 mm) thick (30 MSG) 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 in. (51 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 degree 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 1/4 in. (6 mm) long steel sheet metal screws when more than one layer of wrap strip is used.

Wrap strip/collar assembly is slid along the through-penetrant until abuts 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 molly bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of molly bolts used is dependent upon the nom diam of the through penetrant. Two molly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three molly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four molly 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) - As 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 molly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel 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.



Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876 Reproduced courtesy of Underwriters Laboratories, Inc. Created or Revised: November 27, 2012 (800)992-1180 • (908)526-8000 • FAX (908)231-8415 • E-Mail:techserv@stifirestop.com • Website:www.stifirestop.com

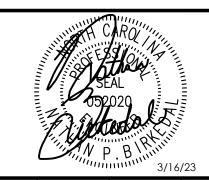


NON-METALLIC PIPE (GYPSUM WALL) DETAIL



ARCHITECTURE 5711 SIX FORKS ROAD, SUITE 100

RALEIGH NC 27609



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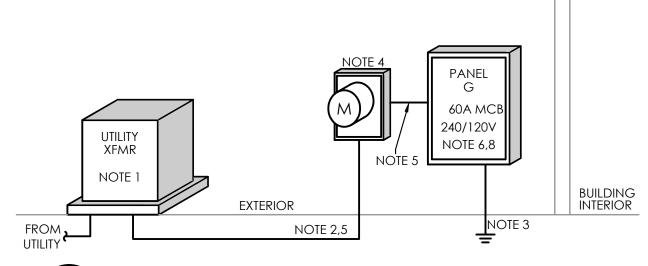
PROJECT NO:

001123 DRAWN BY: CHECKED BY:

**ELECTRICAL** 

SHEET NUMBER:

FIRE RATING LEGEND ■ I ■ 1-HR WALL



## ELECTRICAL POWER RISER

**RISER DIAGRAM NOTES:** 1. PAD MOUNTED TRANSFORMER BY UTILITY.

2. 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. 3. #8 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- 4. 100A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- 5. (3)#6 CU, 3/4" CONDUIT.

1 PHASE, 3 WIRE

NEMA 3R

SURFACE MOUNTED

-DESCRIPTION-

REC./OPENER GARAGE #1

0.1 0.9 4 20 12 1 REC./OPENER GARAGE #2

0 0.9 8 20 12 1 REC./OPENER GARAGE #4

0 | 0.9 | 12 | 20 | 12 | 1 | REC./OPENER GARAGE #6

0 | 0.9 | 16 | 20 | 12 | 1 | REC./OPENER GARAGE #8

DEMAND kVA: 8.8

DEMAND AMPS: 36.7

6 20 12 1 REC./OPENER GARAGE #3

10 | 20 | 12 | 1 | REC./OPENER GARAGE #5

14 20 12 1 REC./OPENER GARAGE #7

18 20 12 1 REC./OPENER GARAGE #9

- 6. PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- 7. PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- 8. 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.

		AMPS: 60-MCB					LC	DAD PE	R PH
		-DESCRIPTION-	POLE	WIRE SIZE	BRK SIZE	CKT #	P	4	
	l	LTS: GARAGE INTERIOR	1	12	20	1	0.3	0.9	
	PC	LTS: EXTERIOR	1	12	20	3			0.1
1374		REC: EXTERIOR	1	12	20	5	0.2	0.9	
kVA DEM.		SPARE	1	-	20	7			0
DEIVI.		SPARE	1	-	20	9	0	0.9	
0.5		SPARE	1	-	20	11			0
		SPACE	1	-	ı	13	0	0.9	
2.0		SPACE	1	-	ı	15			0
0.0		SPACE	1	-	ı	17	0	0.9	
0.0		SPACE	1	-	ı	19			0
6.3							5.	.0	
0.0		TOTAL	CON	NECT	ED k	/A:		8.	.7
8.8		PANE	EL RMS	SSYN	I. AM	PS:	SEE	RISE	R

PANEL G LOAD SUMMARY

kVA DEM.

CONN. FACT.

0.4 1.25

6.3 1.0

36.7

1st 10 kVA 2.0 1.0

REMAINDER 0.0 0.5

LOAD TYPE

LOADS ON 60AMP MCB

LIGHTS (CONN. LOAD)

GARAGE DOOR OPENERS

TOTAL AMPS @ 240 V 1 PHASE

**RECEPTACLES** 

. All drawings are to be coordinated with all site information by owner and contractor, and applicable codes. 3. Planworx Architecture, P.A. is not responsible for constructed variations from the information depicted.

VOLTAGE: 240/120V

1. PANEL SHALL BE SERVICE ENTRANCE RATED, EQUAL TO SQUARE D NQ. 2. PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.

GARAGE EXTERIOR

PANEL: G

LOAD PER PHASE

A B

"A" LIGHTS TO INCLUDE SENSOR. TYPICAL OF ALL.

ALL GARAGE RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE.

INTEGRAL MOTION

GENERAL NOTES - THIS SHEET I. FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C. TAGGED NOTES - THIS SHEET

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

					2. PC - CIRCUIT THROUGH PHOTOCELL LOCATI	ED ON NORTH FACE OF BUILDING.			
M	+48",GFI G-18	+48",GFI G-16	+48",GFI G-14	#48",GFI G-12	#48",GFI G-10	+48",GFI G-8	#48",GFI G-6	#48",GFI G-4	448",GFI G-2
G	GARAGE BAY #9	GARAGE BAY #8	GARAGE BAY #7	GARAGE BAY #6		GARAGE BAY #4	GARAGE BAY #3	GARAGE BAY #2	GARAGE BAY #1
G-5	A	A	# A	IN ATTIC  A	A	A	A	A	G-1
		С-16 СЕП	G-14 CEIL.	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} G-12 \\ \end{array} \\ \end{array} \end{array}$		G-8 CEIL.		G-4 GEIL.	G-2 PEIL.
					ACCESSIBLE GARAGE BAY #5				
	s Q	(3) S Q	3 \$ <b>Q</b>	3 \$ <b>Q</b>	-3 \$Q	3 s Q	3 \$ <b>Q</b>	3 \$ <b>Q</b>	3 sQ
	G-3	G-3	G-3	G-:	<u>G</u> -3♥	G-3	G-3	<b>B</b> 1 G-3	
					FLECTRICAL PL	AN- GARAGE			

NELECTRICAL PLAN- GARAGE

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