

LIFE-SAFETY INFORMATION

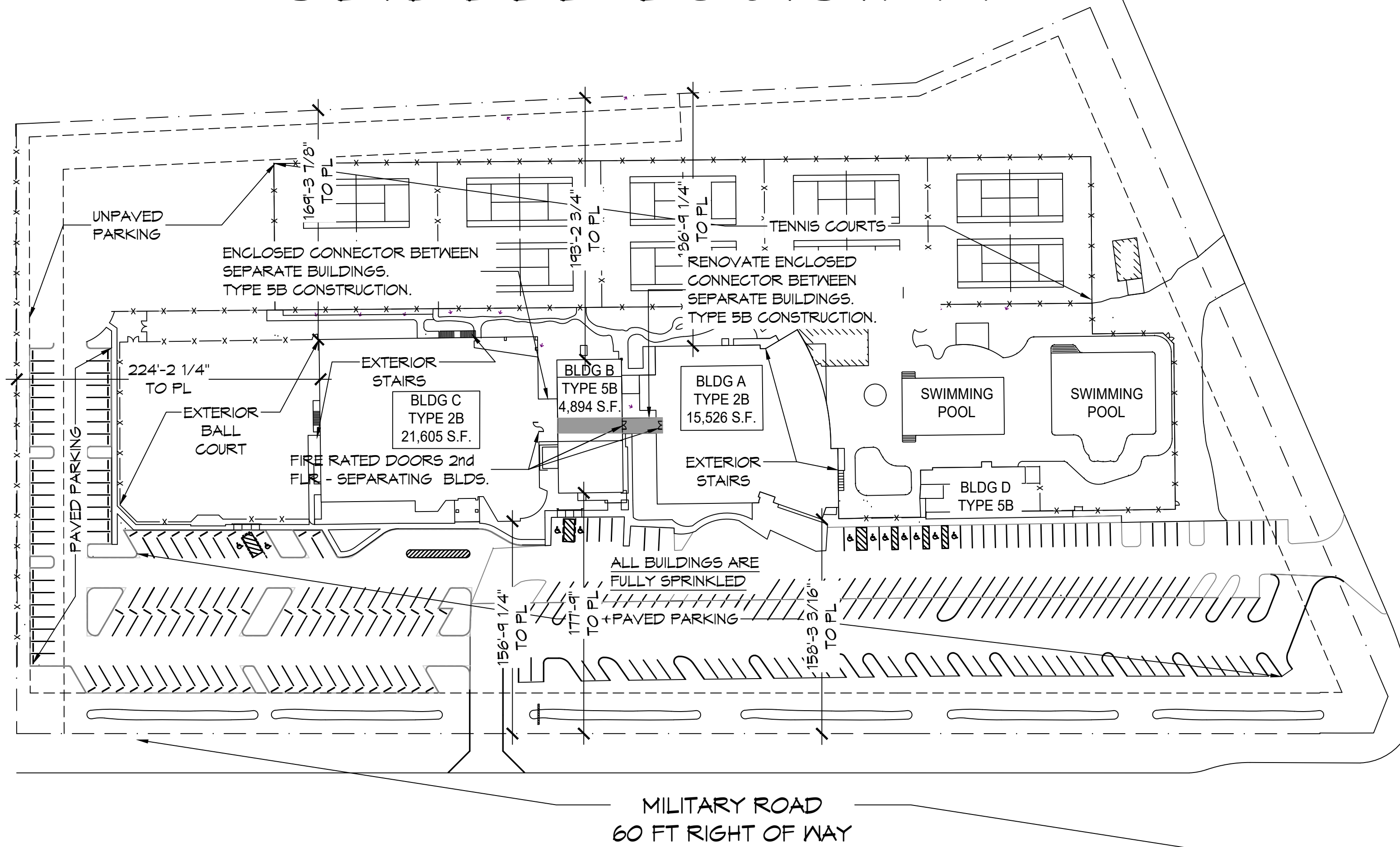
APPLICABLE CODES
 NFPA 101 LIFE-SAFETY CODE 2015 AND IBC 2021
 OCCUPANCY TYPE(S) AND CHAPTER(S)
 ASSEMBLY A-3 (CHAPTER 3)

| OCCUPANT LOAD FACTOR | | (REFERENCE TABLE 7.3.1.2) | |
|-------------------------|---------------------------|--|--|
| BLDG 'A' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 15,526 s.f. / 50 gross = 310 | 2nd Flr = 14,150 s.f. / 50 gross = 283 |
| BLDG 'B' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 4,894 s.f. / 50 gross = 98 | 2nd Flr = 2,651 s.f. / 50 gross = 53 |
| BLDG 'C' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 21,605 s.f. / 50 gross = 432 | 2nd Flr = 12,784 s.f. / 50 gross = 256 |

CLASSIFICATION OF HAZARD OF CONTENTS
 (REFERENCE: OCCUPANCY CHAPTER AND 6.2.2: SPECIFY LOW, ORDINARY, OR HIGH)
 CONSTRUCTION TYPE: VB (REFERENCE: CHAPTERS, TABLE A.8.2.1.2 AND COMMENTARY TABLE 6.1 IN HANDBOOK)
 MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS
 (REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)
 1/2 DIAGONAL = 47'-0"
 MAXIMUM DEAD-END CORRIDORS (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
 20 FEET
 MAXIMUM COMMON PATH OF TRAVEL DISTANCE (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
 20 FEET/75 FEET
 MAXIMUM TRAVEL DISTANCE TO EXITS (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
 200 FEET
 MAIN ENTRANCES MUST BE SIGNED TO ACCOMMODATE 1/2 OCCUPANT LOAD OF BUILDING

EXTINGUISHMENT REQUIREMENTS **SPRINKLERED**
DETECTION, ALARM, AND COMMUNICATION SYSTEMS YES
ALLOWABLE HEIGHT AND BUILDING AREA PER IBC EQUIVALENT CONSTRUCTION TYPE

CROSS GATES ATHLETIC CLUB SLIDELL LOUISIANA



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

BUILDING CODE INFORMATION

APPLICABLE CODES
 IBC 2021

ASSEMBLY GROUP AS (IBC 2015 CHAPTER 3)

| OCCUPANT LOAD CALCULATIONS | | (REFERENCE TABLE 1004.1.2) | |
|----------------------------|---------------------------|--|--|
| BLDG 'A' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 15,526 s.f. / 50 gross = 310 | 2nd Flr = 14,150 s.f. / 50 gross = 283 |
| BLDG 'B' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 4,894 s.f. / 50 gross = 98 | 2nd Flr = 2,651 s.f. / 50 gross = 53 |
| BLDG 'C' - ASSEMBLY A-3 | 50 GROSS - Exercise rooms | 1st Flr = 21,605 s.f. / 50 gross = 432 | 2nd Flr = 12,784 s.f. / 50 gross = 256 |

TOTAL OCCUPANTS
 Bldg A = 598; Bldg B = 152; Bldg C = 688

CONSTRUCTION TYPE(S)
 IIB & VB

| ALLOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION | | | |
|--|----------------------------------|---|---|
| MAXIMUM HEIGHT (IBC TABLE 504.3) | MAXIMUM STORES (IBC TABLE 504.4) | ALLOWABLE AREA FACTOR MULTI STORY SPRINKLED | ALLOWABLE AREA FACTOR MULTI STORY NON-SPRINKLED |
| BLDG A, SPRINKLED, TYP 2B = 75 FT | BLDG A, SPRINKLED, TYP 2B = 3 | SM = 28,500 s.f. | NS = 9,500 s.f. |
| BLDG B, SPRINKLED, TYP 5B = 60 FT | BLDG B, SPRINKLED, TYP 5B = 2 | SM = 18,000 s.f. | NS = 6,000 s.f. |
| BLDG C, SPRINKLED, TYP 2B = 75 FT | BLDG C, SPRINKLED, TYP 2B = 3 | SM = 28,500 s.f. | NS = 9,500 s.f. |

WIND SPEED DESIGN REQUIREMENTS

THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:
 WIND DESIGN DATA: DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3 (A), (B), OR (C) DEPENDING ON THE RISK CATEGORY

| ULTIMATE WIND SPEED | CATEGORY II | NOMINAL WIND SPEED | V98d = 104 MPH |
|----------------------|-------------|---------------------|----------------|
| RISK FACTOR: | 1 | SURFACE ROUGHNESS = | B |
| TOPOGRAPHIC FACTOR = | 1 | EXPOSURE = | B |

INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1): ± 0.18

LIVE LOADS (IBC SEC 1607)

| | |
|--|---------------------------------------|
| ASSEMBLY FIXED SEATING (IBC TABLE 1607.1): | 60 PSF |
| PLATFORMS (ASSEMBLY) (IBC TABLE 1607.1): | 100 PSF |
| LOBBIES (IBC TABLE 1607.1): | 100 PSF |
| CLASSROOMS (IBC TABLE 1607.1): | 40 PSF UNIFORM, 1,000 LB CONCENTRATED |
| ROOF LIVE LOADS (IBC TABLE 1607.1): | 20 PSF UNIFORM, 300 LB CONCENTRATED |
| SNOW LOADS (IBC TABLE 1608): | 5 PSF |
| GROUND SNOW LOAD (IBC FIG 1609.2): | 5 PSF |

FLOOD ZONE INFORMATION

BASED ON THE SURVEY OF THIS PROPERTY BY J.V. BURKES AND ASSOCIATES, INC. THIS PROPERTY IS IN A SPECIAL FLOOD HAZARD AREA. F.I.R.M. COMMUNITY MAP NO 220205 0420 E; REVISED 4/21/99

| FLOOD ZONE: | BASE FLOOD ELEVATION |
|-------------|----------------------|
| A | 17.0 NGVD |

ELEVATIONS REFER TO NGVD 1929 DATUM

PROJECT STATISTICS

| EXISTING BUILDINGS | YEAR BUILT | CONSTRUCTION TYPE | 1st FLOOR GROSS S.F. | 2nd FLOOR GROSS S.F. |
|--------------------|------------|-------------------|----------------------|----------------------|
| BLDG A | 1991 | IIB | 21,605 | 10,203 |
| BLDG B | 1993 | VB | 4,894 | 2,536 |
| BLDG C | 2006 | IIB | 15,526 | 14,161 |

Project Synopsis:

Cross Gates Athletic Club has three (3) existing main buildings A, B, & C. Building B is the original building; the newer buildings, A & C, were constructed at a higher elevations due to FEMA Flood maps at the time of their construction. Currently the buildings are connected on the first floor via enclosed connectors with stairs that serve the staff & customers to move from building to building without requiring them to exit one building to enter the next. The second floor of Building B is connected to the second floor of building C with stairs; however there is no path from the 2nd floor of building A to the second floor of building B.

The owner wants to create an open floor such that a person could walk from the 2nd floor of building A thru the 2nd floor of B to the second floor of building C.

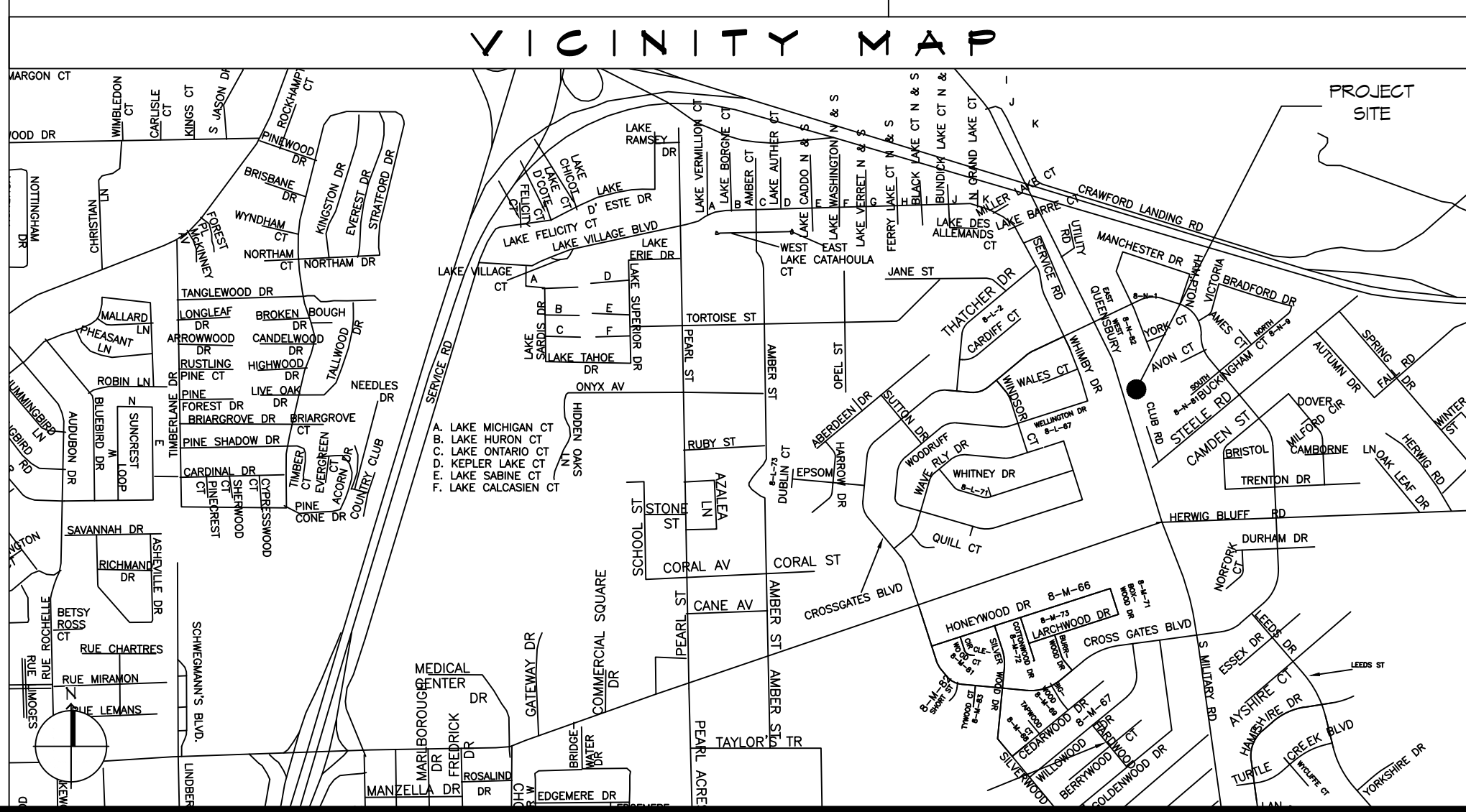
Building B is metal building with wood frame construction for interior walls and 2nd floor support. The connector between buildings A & B is constructed of wood frame construction. This project extends building B to the face of buildings A & C.

Each of the buildings at the connection between buildings, will be separated with 1 1/2 hour fire rated doors that area magnetically held open and connected to the fire alarm system. All 3 buildings, as well as connectors, are sprinkled and none of the existing Egress routes will be altered during this construction.

PROJECT LOCATION:
 300 NORTH MILITARY ROAD
 SLIDELL, LA 70460

OWNER:
 CROSS GATES ATHLETIC CLUB
 LARRY WELCH

| ALLOWABLE BLDG AREA INCREASE BLDG A | ALLOWABLE BLDG AREA INCREASE BLDG B | ALLOWABLE BLDG AREA INCREASE BLDG C |
|---|---|--|
| BLDG FULLY SPRINKLED, BLDG CONSTRUCTION 2B ASSEMBLY GROUP A-3, SM = 28,500 s.f.; NS = 9,500 s.f. W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2) IF = (F/P - 0.25) X W/30 (IBC SEC, 506.3.3) F = 249.66ft; P = 549.58ft; IF = ((249.66/549.58) - 0.25) X (30/30) IF = 0.20 Aa = [At + (NS x IF)] x Sa Aa = [28,500 + (9,500 X 0.2)] X 2 Aa = 60,800 s.f. / 2 STORIES = 30,400 s.f. Each Floor | BLDG FULLY SPRINKLED, BLDG CONSTRUCTION 5B ASSEMBLY GROUP A-3, SM = 18,000 s.f.; NS = 6,000 s.f. W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2) IF = (F/P - 0.25) X W/30 (IBC SEC, 506.3.3) F = 95.33 ft; P = 292.0 ft IF = ((95.33/292.0) - 0.25) X (30/30) IF = 0.076 Aa = [At + (At x IF) + (At x IS)] x Sa Aa = [18,000 + (6,000 X 0.076)] X 2 Aa = 36,912 s.f. / 2 STORIES = 18,456 s.f. Each Floor | BLDG FULLY SPRINKLED, BLDG CONSTRUCTION 2B ASSEMBLY GROUP A-3, SM = 28,500 s.f.; NS = 9,500 s.f. W = 30 (SHALL NOT EXCEED 30, IBC SEC, 506.3.2) IF = (F/P - 0.25) X W/30 (IBC SEC, 506.3.3) F = 494.66 ft; P = 599.75 ft; IF = ((494.66/599.75) - 0.25) X (30/30) IF = 0.575 Aa = [At + (NS x IF)] x Sa Aa = [28,500 + (9,500 X 0.575)] X 2 Aa = 67,925 s.f. / 2 STORIES = 33,962 s.f. Each Floor |



SHEET INDEX

| SHEET # | SHEET TITLE |
|---------|---|
| 6001 | GENERAL PROJECT, LIFE-SAFETY, AND BUILDING CODE INFORMATION |
| G101 | OVERALL SITE PLAN |
| D101 | 1ST & 2ND FLOOR BLDG A & B - DEMO PLAN |
| A101 | 1st & 2nd FLOOR PLANS |
| A102 | BLDG A - B CONNECTOR SECTIONS AND ROOF PLAN |
| A103 | PARTIAL ELEVATION |
| A104 | TYPICAL CONNECTION DETAILS-SCHEDULES & NOTES |
| E101 | LIGHTING AND POWER PLAN |

- GENERAL NOTES**
- ALL MATERIALS AND WORK, INCIDENTAL TO THE CONSTRUCTION OF THIS PROJECT, SHALL CONFORM TO ALL GOVERNING CODES, AND REGULATIONS OF AGENCIES IN AUTHORITY.
 - CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS NECESSARY AS REQUIRED BY LAW.
 - THE DRAWINGS, SPECIFICATIONS AND ANY SUBSEQUENTLY ISSUED ADDENDA, AMENDMENTS OR SUCH CHANGE ORDERS APPROVED BY THE OWNER AND THE CONTRACTOR ARE PART OF THESE CONTRACT DOCUMENTS.
 - DO NOT SCALE DRAWINGS. CONSULT WITH THE ARCHITECT REGARDING ANY ITEMS IN THE CONTRACT DOCUMENTS THAT REQUIRE CLARIFICATION.
 - TRASH SHALL BE REMOVED FROM THE SITE NOT LESS THAN TWICE MONTHLY.
 - THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
 - CONTRACTOR VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION MAY BE PARKED ON THE SITE. OTHER VEHICLES PARKED ON THE SITE REQUIRE THE OWNER'S PERMISSION.
 - NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY STANDARD OF THE PRODUCT DESIRED. SUBSTITUTION REQUESTS MUST BE SUBMITTED PRIOR TO BIDDING.
 - ALL MATERIALS/EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. WORK NOT CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS WILL BE REJECTED BY OWNER/ARCHITECT.

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REVISIONS

| # | DATE | DESCRIPTION |
|---|------|-------------|
| | | |



CROSS GATES ATHLETIC CLUB

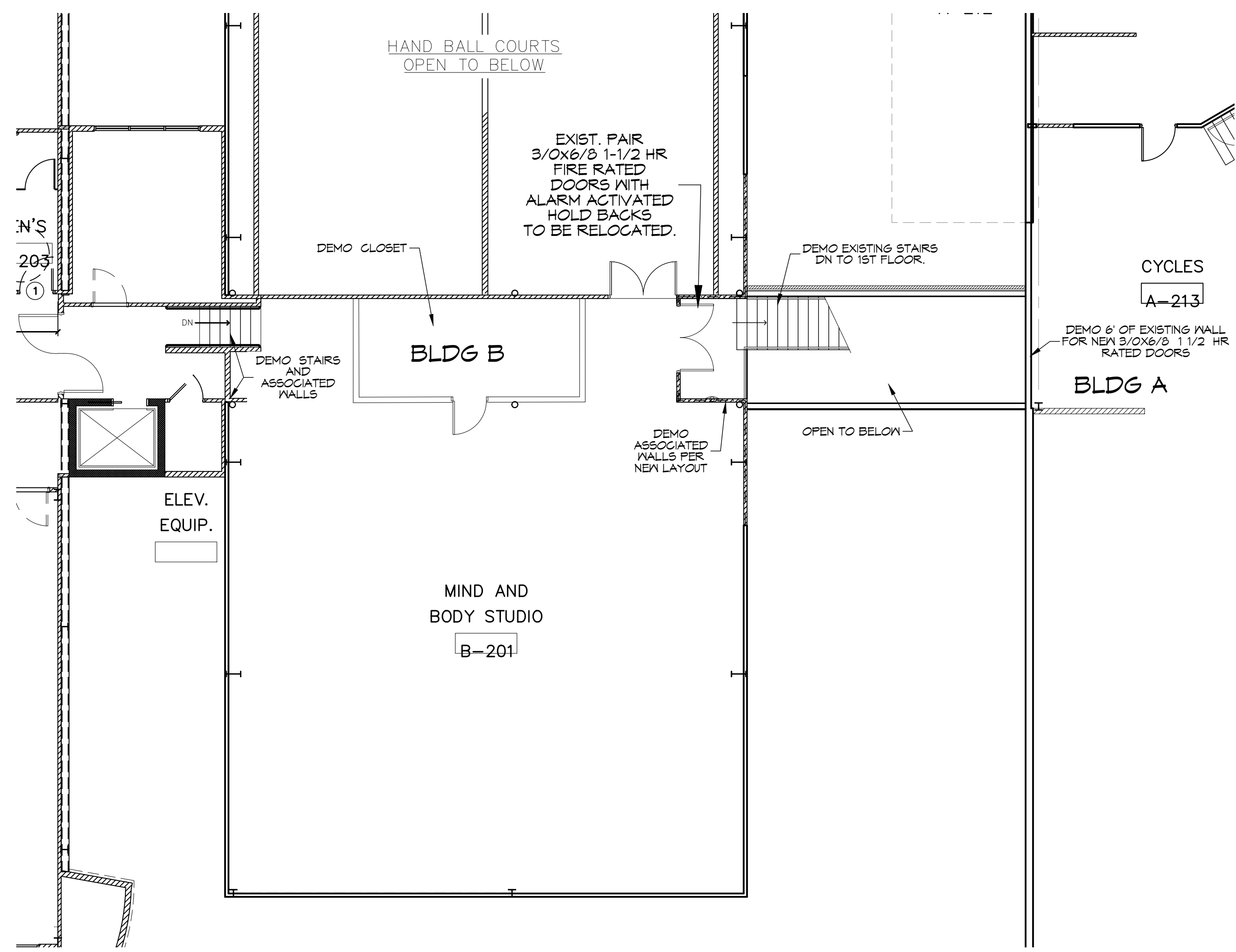
STAIR ADDITION

SHEET TITLE:
 GENERAL PROJECT, LIFE-SAFETY, AND BUILDING CODE INFORMATION

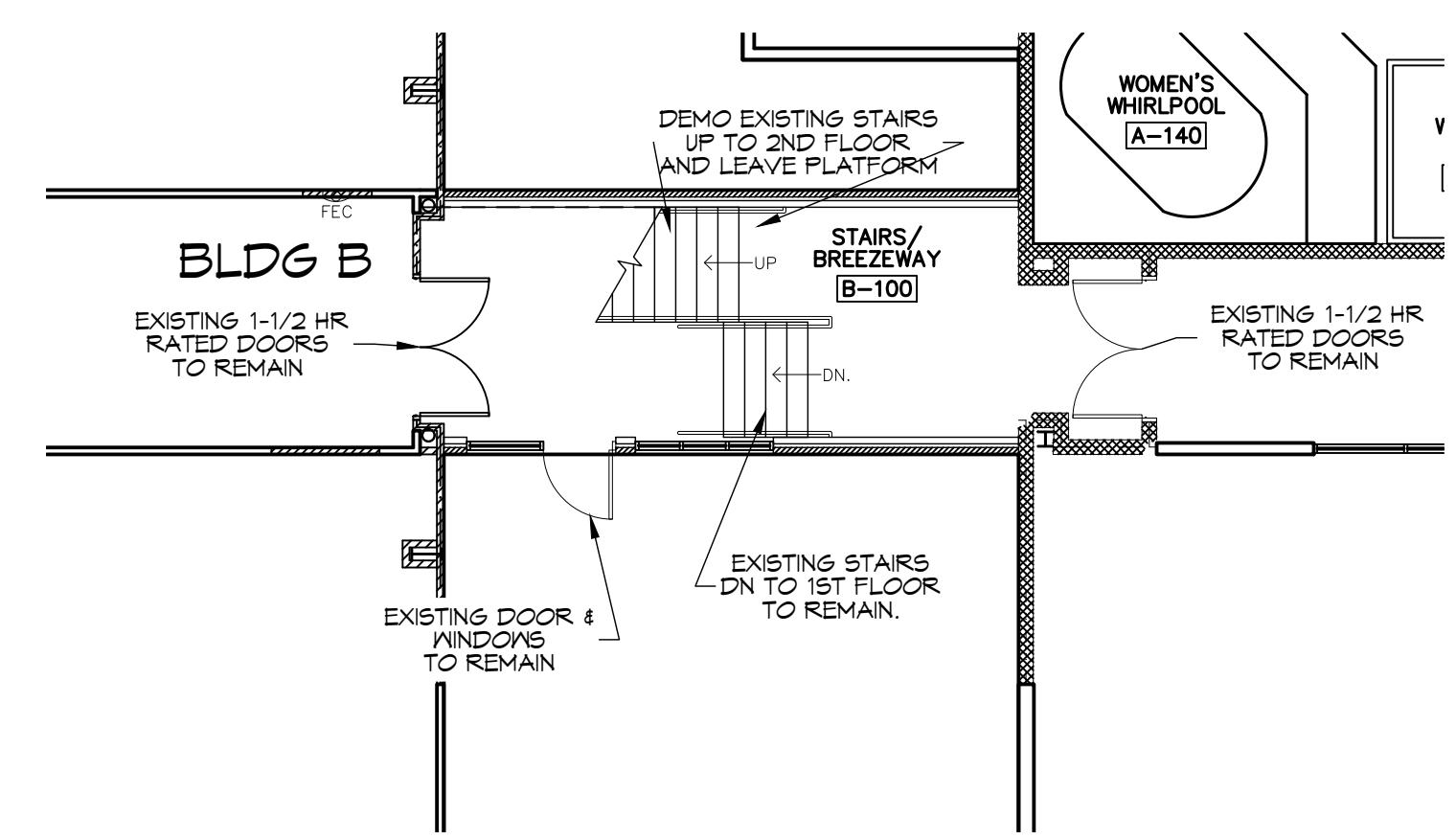
DRAWING NUMBER:
GOO1

DATE: 05-09-2024
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 300 NORTH MILITARY ROAD
 SLIDELL, LA.
 JOB NO.:
 DRAWN BY: JTL
 CHECKED BY: JMS

SHEET No: 1 of 6



3rd FLOOR BLDG A & B - DEMO PLAN
SCALE: 1/8"=1'-0"



2nd FLOOR BLDG A & B - DEMO PLAN
SCALE: 1/8"=1'-0"

GENERAL DEMO NOTES

1. THIS DEMOLITION PLAN HAS BEEN DERIVED FROM EXISTING BUILDING PLANS AND ARE INTENDED TO REASONABLY REPRESENT EXISTING CONDITIONS. ENGINEER DOES NOT GUARANTEE ACCURACY OF THE EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS IN AREAS TO BE RENOVATED PRIOR TO BID IN ORDER TO PROVIDE AN ACCURATE BID AND BE AWARE OF ALL CONSTRUCTION METHODS NEEDED TO PROVIDE THE FINISHED PRODUCT AS SHOWN ON THE PLANS. ILLUSTRATIONS, DIMENSIONS, AND INFORMATION IN THESE DRAWINGS ARE BASED, IN PART, ON EXISTING DRAWINGS FURNISHED BY THE OWNER. ACTUAL CONDITIONS MAY DEVIATE FROM THAT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AND COORDINATE THE DEMOLITION WITH NEW WORK SO THAT DEMOLITION IS COMPLETE.
2. THE CONTRACTOR SHALL COORDINATE REMOVAL OF SMOKE AND OTHER FIRE ALARM ADDRESSABLE UNITS ATTACHED TO THE AHU WITH THE FIRE ALARM CONTRACTOR PRIOR TO REMOVAL.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND/OR WORKMEN ON THE SITE TO PREVENT ACCIDENTS OR INJURY TO ANY PERSON ON OR ADJACENT TO THE PREMISES. THE CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, AND REGULATIONS PERTAINING TO SAFETY AND THE PREVENTION OF ACCIDENTS.
4. ALL EXISTING STEEL FRAMING MEMBERS (COLUMNS, BEAMS, JOISTS, DECK, ETC...) SHALL REMAIN INTACT AND UNDAMAGED.
5. WHEN DEMOLITION TAKES PLACE, SHOULD ANY WORK AFFECT THE INTEGRITY OF THE STRUCTURE, WORK MUST STOP IMMEDIATELY, AND DAMMON ENGINEERING NOTIFIED. UNDER NO CIRCUMSTANCES SHALL REINFORCING OF ANY KIND BE DAMAGED, CUT, OR BROKEN.
6. EXISTING ITEMS, EQUIPMENT, PLUMBING FIXTURES, ETC. TO REMAIN IN PLACE SHALL BE PROTECTED FROM DIRT AND DAMAGE DURING DEMOLITION AND CONSTRUCTION.
7. ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING CONSTRUCTION, EQUIPMENT, PIPING, DUCTS, ETC. SHALL BE PROPERLY PATCHED AND CLOSED OFF TO MAINTAIN PROPER FIRE RATING IN WALL. PREPARE PATCHES TO RECEIVE NEW FINISHES AS REQUIRED.
8. WHERE A RATING HAS BEEN GIVEN TO AN EXISTING WALL, ALL PENETRATIONS (EXISTING OR NEW) MUST BE SEALED AND PROPERLY FIREPROOFED PER THAT RATING REQUIREMENT.
9. REMOVAL OF EXISTING HVAC SHALL INCLUDE DUCT WORK HANGERS, GRILLES, DIFFUSERS, THERMOSTATS, ETC. AS REQUIRED TO COMPLETE DEMOLITION.

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| # | DESCRIPTION | DATE |
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STAIR ADDITION

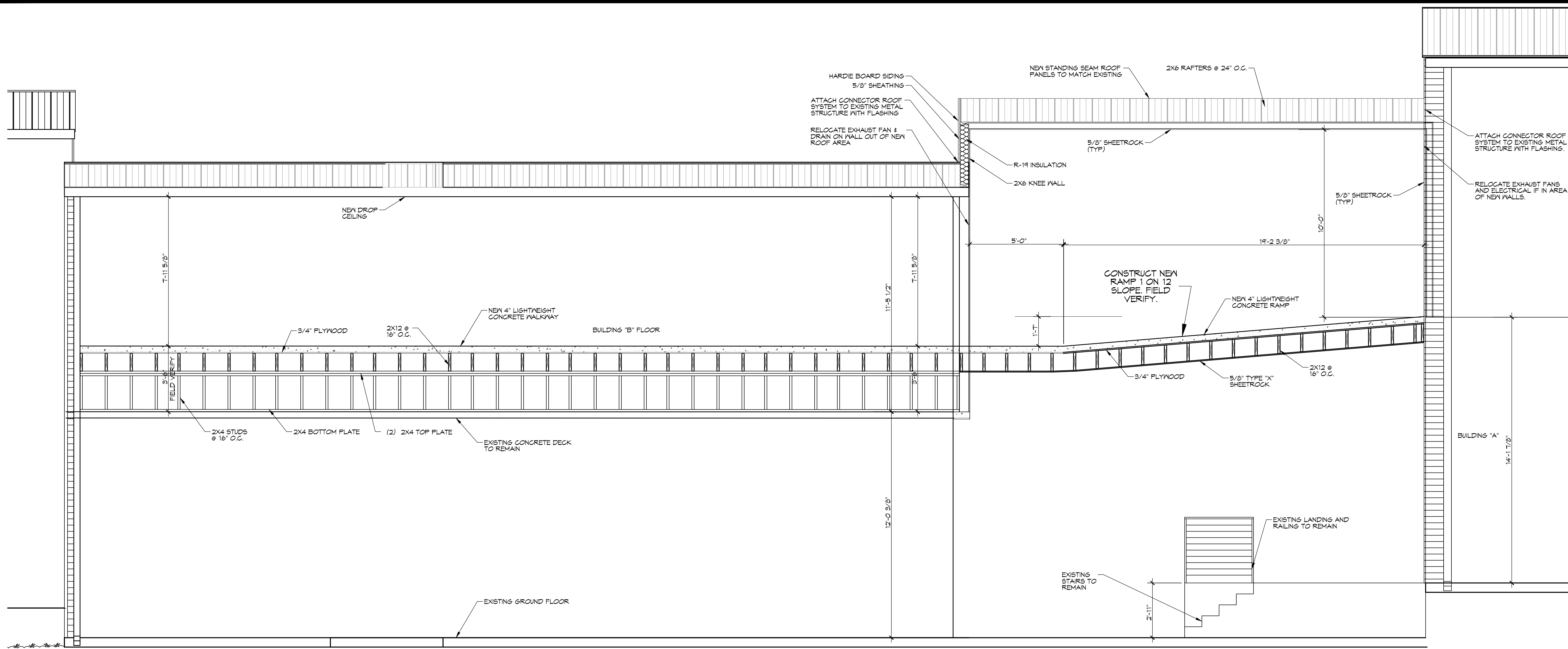
CROSSETTES CLUB

200 NORTH MILITARY ROAD
SLIDELL, LA.

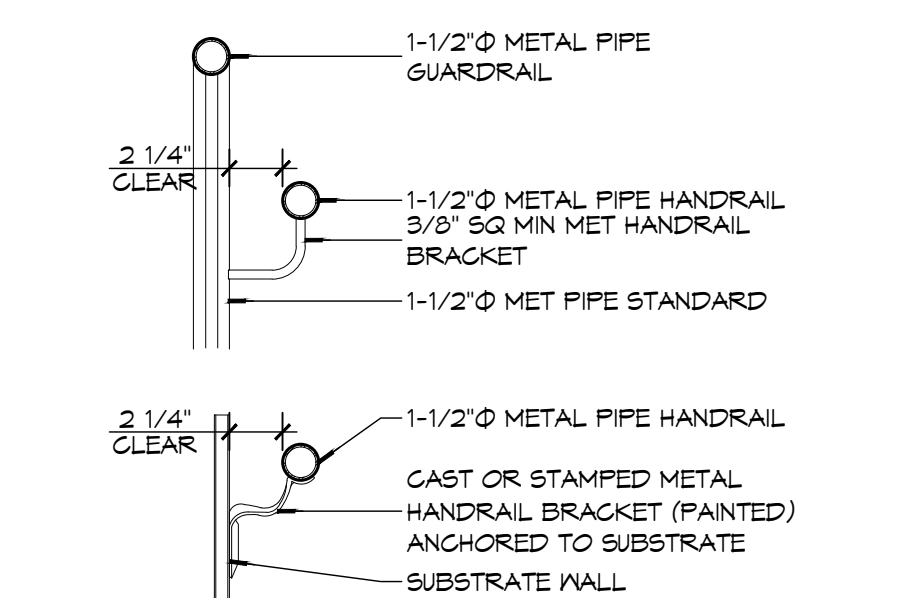
JOB No: 292T DATE: 09-09-2024
DRAWN BY: JTL CHECKED BY: GAD

SHEET TITLE:
1ST & 2nd FLOOR BLDG A & B - DEMO PLAN

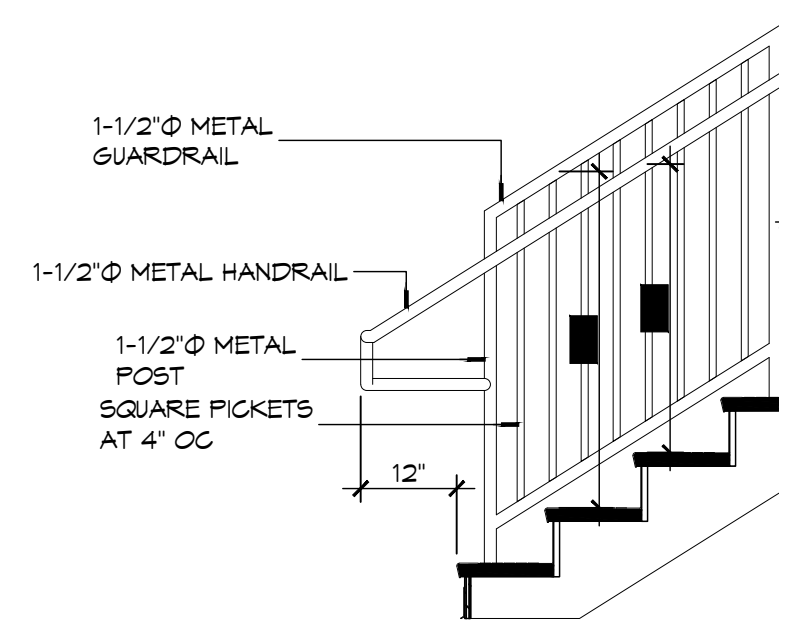
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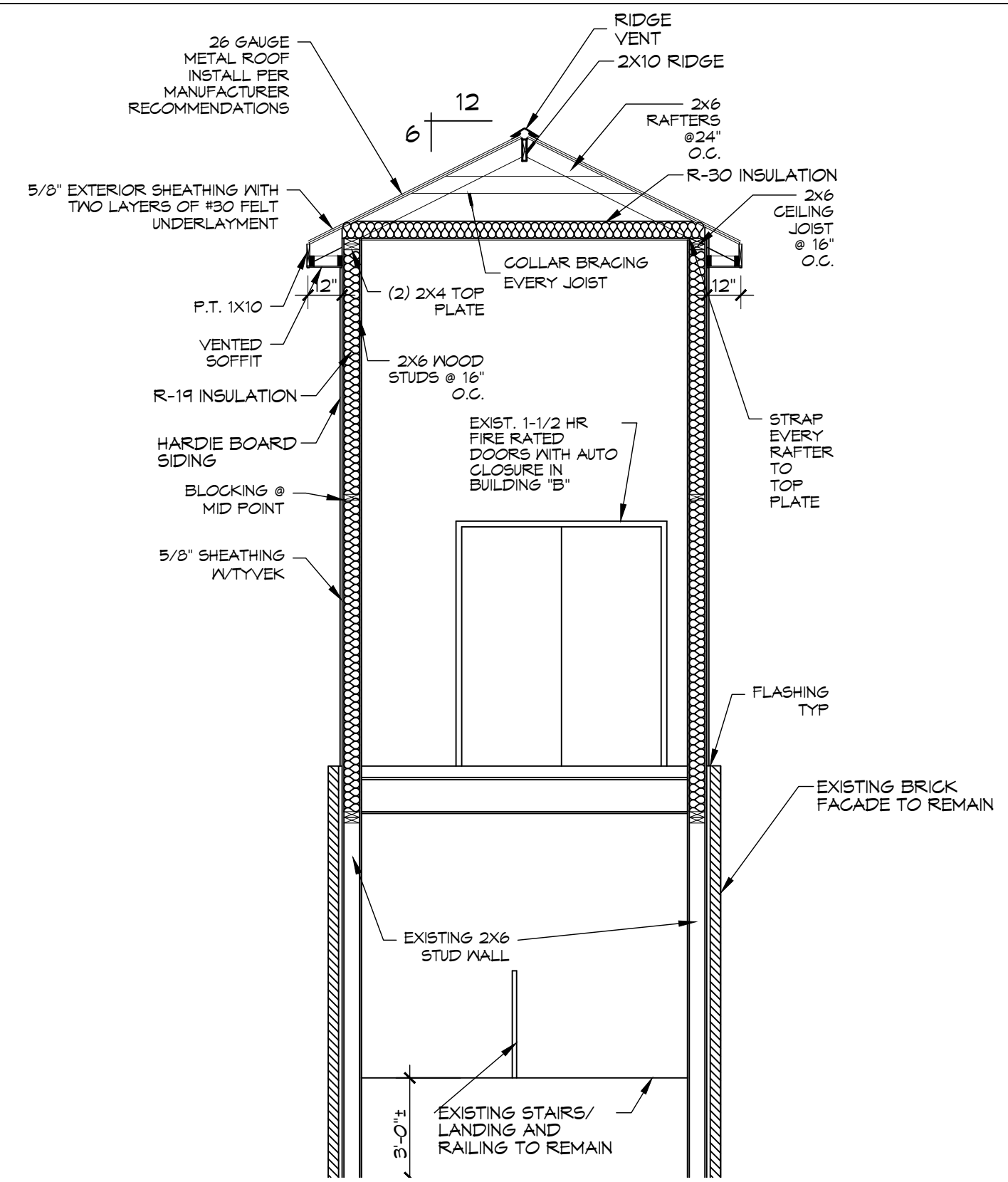
B SECTION OF CONNECTOR BLDG A - B
SCALE: 3/8"=1'-0"



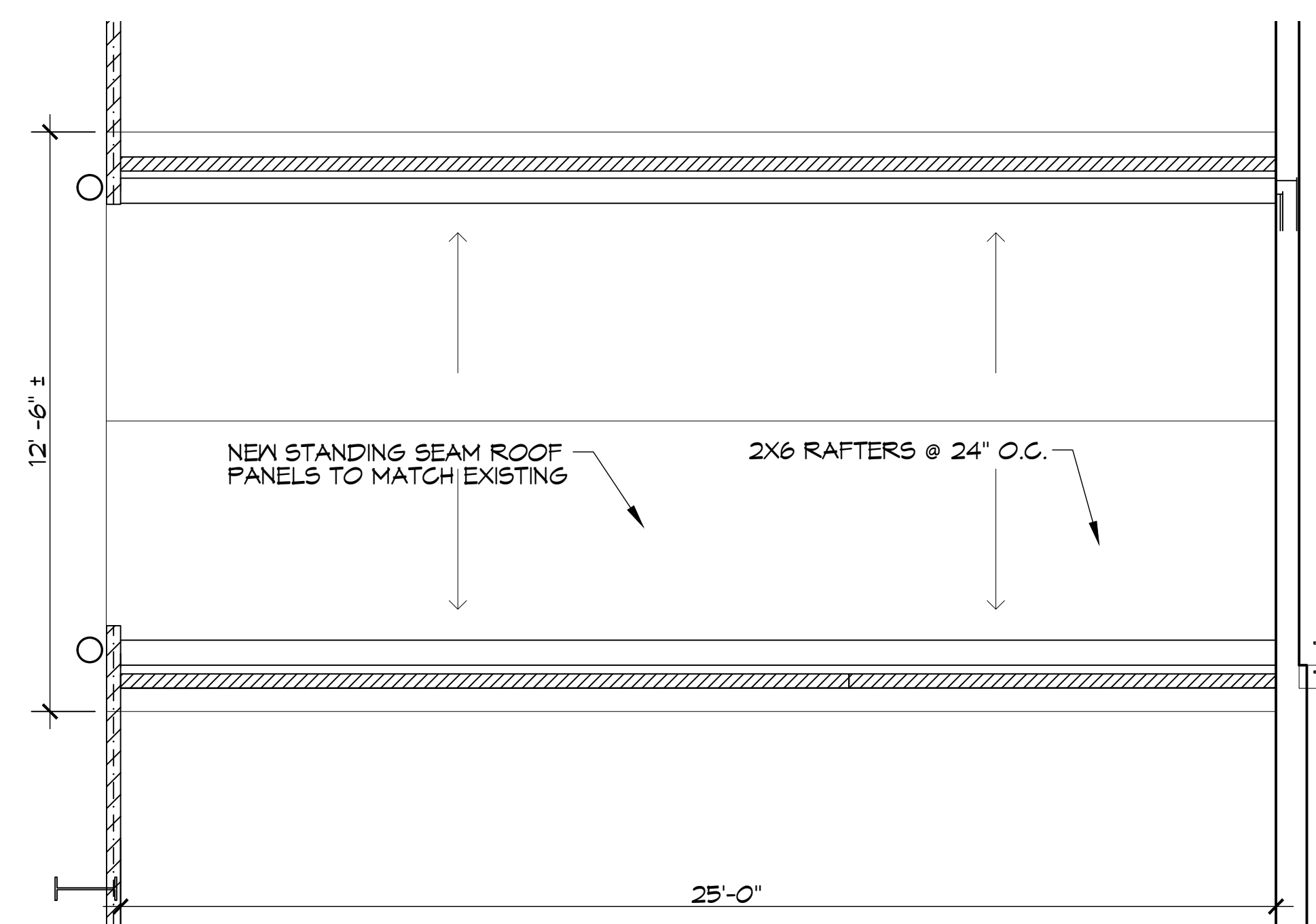
6 DETAIL
SCALE: 1-1/2"=1'-0" WALL ATTACHMENT



7 DETAIL
SCALE: 1/2"=1'-0" STAIR GUARDRAIL



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



9 CONNECTOR ROOF PLAN BLDG A - B
SCALE: 1/4"=1'-0"

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| # | DESCRIPTION | DATE |
|---|-------------|------|
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STAIR ADDITION

CROSSETTES CLUB

200 NORTH MILITARY ROAD
SLIDELL, LA.

JOB No: 292T DATE: 09-09-2024
DRAWN BY: JFL CHECKED BY: CACD

SHEET TITLE:
BLDG A - B CONNECTOR
SECTIONS AND ROOF
PLAN

DRAWING NUMBER:

A102

TABLE S601.7 - UPLIFT CONNECTIONS - 140 MPH WINDS EXP "C"
NFCM 2015 TABLE 9.2.4

| CONNECTION | FRAMING SPACING (INCHES) | ROOF SPAN (FEET) | UPLIFT | ROOF SPAN (FT) | FRAMING SPACING (INCHES) | NUMBER OF 8d COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1-1/4" X 20 GAGE STRAP |
|---|--------------------------|------------------|--------|----------------|--------------------------|--|
| ROOF ASSEMBLY TO WALL ASSEMBLY; WALL ASSEMBLY TO WALL ASSEMBLY; WALL ASSEMBLY TO FOUNDATION | | | | 24 | 16" | 4 |
| | | | | 24 | 24" | 6 |

TABLE S601.8 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 140 MPH WIND EXP "C"
NFCM 2015 TABLE 9.2.5

| BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING | FOUNDATION SUPPORTING | MAXIMUM ANCHOR BOLT SPACING (INCHES) | |
|---|-----------------------|--------------------------------------|---------------------|
| UPLIFT LOADS | 1 - 3 STORIES | 8' END ZONES | INTERIOR ZONES |
| | | 30 INCHES ON CENTER | 35 INCHES ON CENTER |

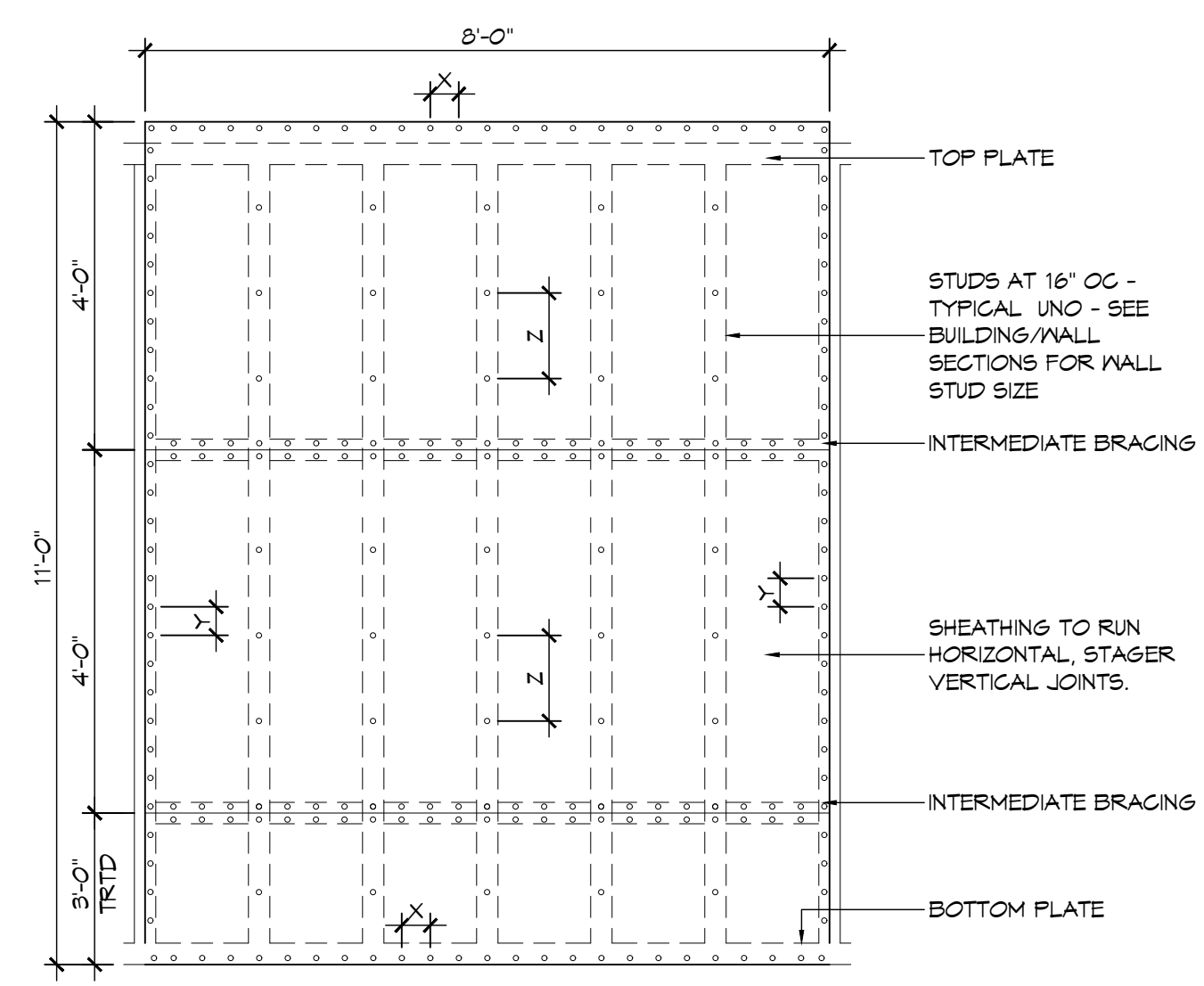
NOTE: A MINIMUM OF ONE ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE

TABLE S601.9 - BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING SHEAR & LATERAL LOADS - ALL WINDS & ALL EXPOSURES
NFCM 2015 TABLE 9.2.6

| ANCHOR BOLT DIAMETER (IN) | 1/2" Ø ANCHOR BOLT | 5/8" Ø ANCHOR BOLT |
|--------------------------------------|--------------------|--------------------|
| MAXIMUM ANCHOR BOLT SPACING (INCHES) | 31 INCHES | 48 INCHES |

TABLE S601.10 - FULL HEIGHT STUD REQUIREMENT FOR HEADERS OR WINDOW SILL PLATES IN EXTERIOR WALLS EXPOSURE B & C
NFCM 2015 TABLE 9.2.9C

| HEADER SPAN (FEET) | WALL SPACING (INCHES) | | |
|--------------------|-----------------------|----------|----------|
| | 12" O.C. | 16" O.C. | 24" O.C. |
| 2 | 1 | 1 | 1 |
| 4 | 2 | 2 | 1 |
| 6 | 3 | 3 | 2 |
| 8 | 4 | 3 | 2 |



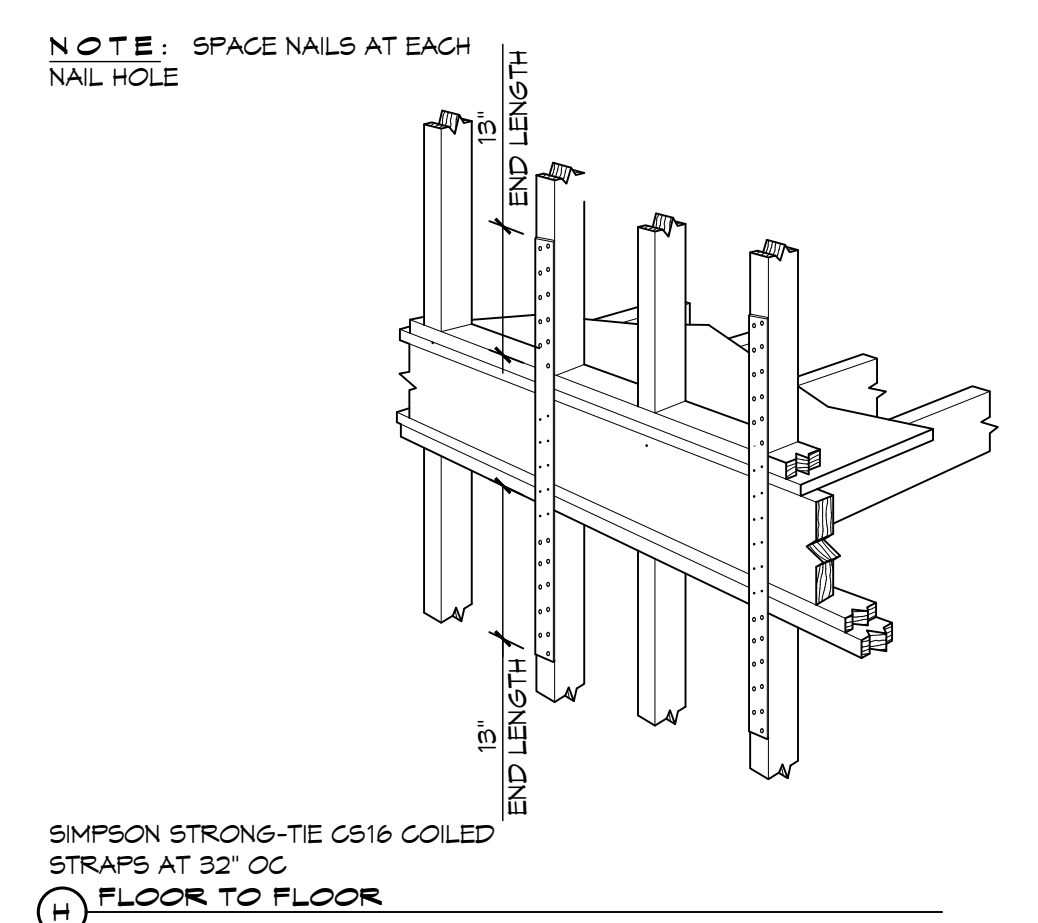
NAIL SPACING
X = 4" OC
Y = 4" OC
Z = 12" OC

X = PLATE EDGE NAIL SPACING
Y = LONG EDGE NAIL SPACING
Z = FIELD NAIL SPACING

INTERIOR SHEATHING
1/2" PLYWOOD EACH FACE STAGGERED 48" OC. N/8d NAILS @ 4" O.C. FASTENING @ PANEL EDGES 8d NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS.

EXTERIOR SHEATHING
1/2" PLYWOOD EACH FACE STAGGERED 48" OC. N/8d NAILS @ 4" O.C. FASTENING @ PANEL EDGES 8d NAILS @ 12" O.C. FASTENING @ INTERMEDIATE MEMBERS.

3 SHEAR WALL EXTERIOR SHEATHING NAILING PATTERN



4 TYPICAL CONNECTION DETAILS
SCALE: NTS

TABLE S601.5 - JACK STUD REQ - INT LOADBearing WALLS

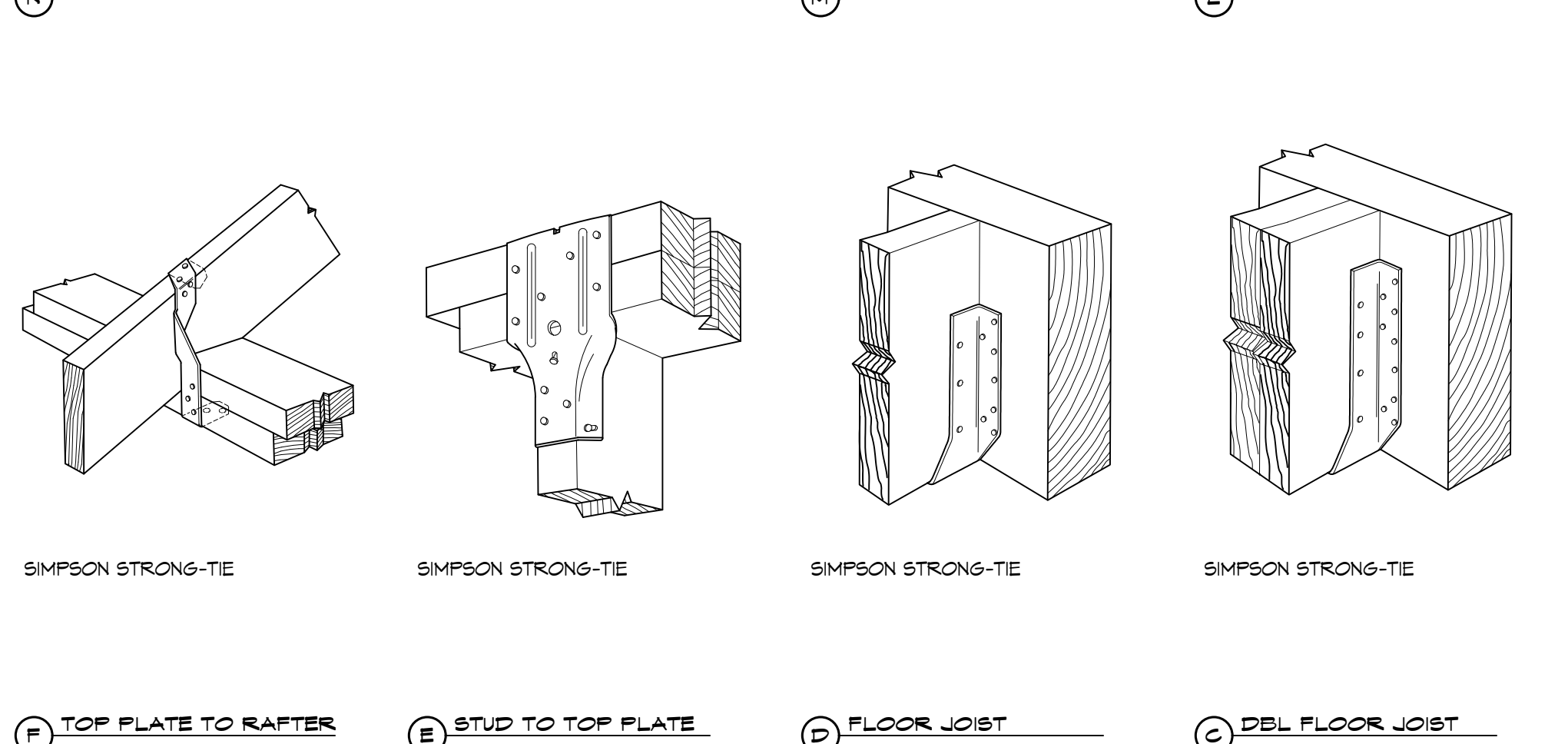
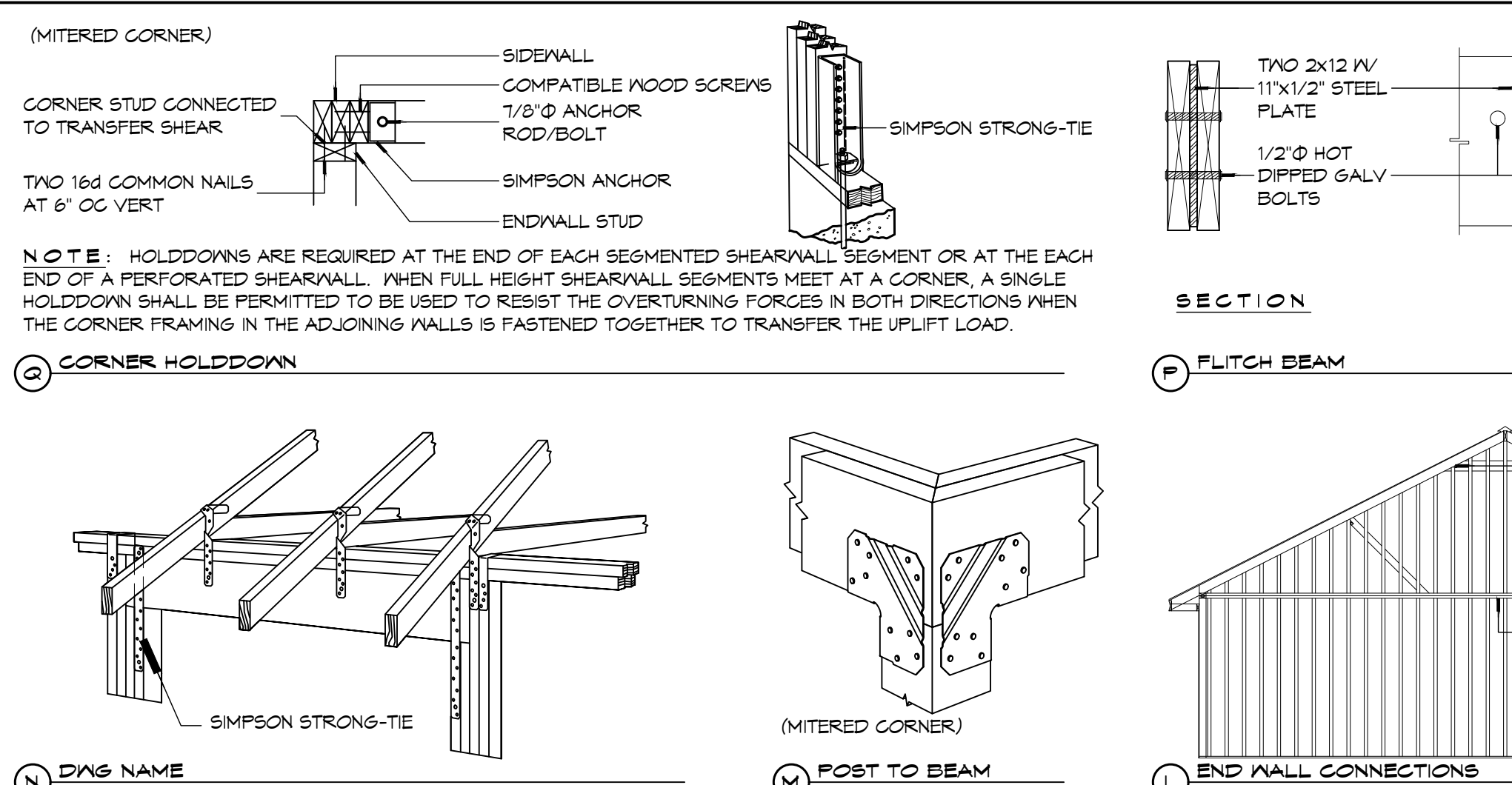
| HEADER SUPPORTING | HEADER SPAN (FT) | ROOF SPAN (FEET) | | | | | | | | | | | |
|---------------------------------|------------------|------------------|------|----|------|---------|------|----|------|---------|------|----|----|
| | | 12 FEET | | | | 24 FEET | | | | 36 FEET | | | |
| | | 3' | 4.5' | 5' | 6.5' | 3' | 4.5' | 5' | 6.5' | 3' | 4.5' | 5' | 6' |
| ONE FLOOR ONLY (CENTER BEARING) | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| | 8 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 2 | 1 |
| | 10 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 |
| | 12 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 |
| TWO FLOORS (CENTER BEARING) | 2 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 3 | 2 |
| | 4 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | 2 |
| | 6 | 2 | 1 | 1 | 1 | 3 | 2 | 2 | 2 | 4 | 3 | 2 | 2 |
| | 8 | 2 | 2 | 1 | 1 | 3 | 2 | 2 | 2 | 5 | 3 | 3 | 3 |
| | 10 | 2 | 2 | 2 | 1 | 4 | 3 | 3 | 2 | 6 | 4 | 4 | 3 |
| | 12 | 3 | 2 | 2 | 2 | 5 | 3 | 3 | 3 | 7 | 5 | 4 | 4 |
| 14 | 3 | 2 | 2 | 2 | 6 | 4 | 4 | 3 | 8 | 5 | 5 | 4 | |
| 16 | 4 | 3 | 2 | 2 | 6 | 4 | 4 | 3 | 9 | 6 | 6 | 5 | |

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5" (4-2x) EACH 1/2" PLYWOOD SPACER BETWEEN

TABLE S601.6 - JACK STUD REQ - EXTERIOR LOADBearing WALLS
NFCM 2015 TABLE 9.2.2F

| ROOF AND CEILING | ROOF LIVE LOAD 20 PSF | ROOF LIVE LOAD 30 PSF | | | | | | | | |
|---|-----------------------|-----------------------|------|----|------|------|------|----|------|---|
| | | 3' | | | | 4.5' | | | | |
| | | 3' | 4.5' | 5' | 6.5' | 3' | 4.5' | 5' | 6.5' | |
| ROOF AND CEILING | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 6 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | 8 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 1 |
| | 10 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| | 12 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| ROOF, CEILING, AND ONE CENTER BEARING FLOOR | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 4 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| | 6 | 2 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 2 |
| | 8 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 |
| | 10 | 4 | 3 | 2 | 2 | 4 | 3 | 3 | 2 | 2 |
| | 12 | 4 | 3 | 3 | 2 | 5 | 3 | 3 | 3 | 3 |
| 14 | 5 | 4 | 3 | 3 | 5 | 4 | 3 | 3 | 3 | |
| 16 | 6 | 4 | 4 | 3 | 6 | 4 | 4 | 3 | 3 | |

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5" (4-2x) EACH 1/2" PLYWOOD SPACER BETWEEN



5 TYPICAL CONNECTION DETAILS

TABLE S601.3 - NAILING SCHEDULE
NFCM 2015 TABLE 3.1

| DESCRIPTION | NUMBER OF COMMON NAILS | NUMBER OF BOX NAILS | SPACING |
|--------------------------------|------------------------|---------------------|--------------|
| HEADER TO HEADER (FACE NAILED) | 16d | 16d | 16" OC EDGES |

TABLE S601.4 - BUILDING ENVELOPE REQUIREMENTS

| ROOFS | OPAQUE ELEMENTS | ASSEMBLY MAXIMUM | INSULATION MIN. R-VALUE |
|--------------------|--------------------------------|------------------|-------------------------|
| ROOFS | INSULATION ENTIRELY ABOVE DECK | U-0.040 | R-20.0 c.i. |
| | METAL BUILDING | U-0.065 | R-19 |
| | ATTIC AND OTHER | U-0.027 | R-30 |
| WALLS, ABOVE GRADE | MASS | U-0.151 | R-5.7 c.i. |
| | METAL BUILDING | U-0.113 | R-13.0 |
| | STEEL-FRAMED | U-0.124 | R-13.0 |
| FLOORS | WOOD-FRAMED AND OTHER | U-0.089 | R-13.0 |
| | MASS | U-0.107 | R-6-3 c.i. |
| | STEEL JOIST | U-0.052 | R-19.0 |
| SLAB-ON-GRADE | WOOD FRAMED AND OTHER | U-0.051 | R-19.0 |
| OPAQUE DOORS | UN-HEATED | F-0.750 | NR |
| | SWINGING | U-0.700 | NR |
| | NON-SWINGING | U-1.450 | NR |

TABLE S601.4 - BUILDING ENVELOPE REQUIREMENTS

| ROOFS | OPAQUE ELEMENTS | ASSEMBLY MAXIMUM | INSULATION MIN. R-VALUE |
|--------------------|--------------------------------|------------------|-------------------------|
| ROOFS | INSULATION ENTIRELY ABOVE DECK | U-0.040 | R-20.0 c.i. |
| | METAL BUILDING | U-0.065 | R-19 |
| | ATTIC AND OTHER | U-0.027 | R-30 |
| WALLS, ABOVE GRADE | MASS | U-0.151 | R-5.7 c.i. |
| | METAL BUILDING | U-0.113 | R-13.0 |
| | STEEL-FRAMED | U-0.124 | R-13.0 |
| FLOORS | WOOD-FRAMED AND OTHER | U-0.089 | R-13.0 |
| | MASS | U-0.107 | R-6-3 c.i. |
| | STEEL JOIST | U-0.052 | R-19.0 |
| SLAB-ON-GRADE | WOOD FRAMED AND OTHER | U-0.051 | R-19.0 |
| OPAQUE DOORS | UN-HEATED | F-0.750 | NR |
| | SWINGING | U-0.700 | NR |
| | NON-SWINGING | U-1.450 | NR |

ROOF UNDERLAYMENT NOTES

- FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
 - APPLY A 14 INCH STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36 INCH WIDE SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 14 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
 - UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION & FASTENING NOTES

- ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
 - THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
 - THE BASIC WIND SPEED IS 120 MPH OR GREATER.
 - SPECIAL WIND ZONES.

METAL ROOF APPLICATION & FASTENING NOTES

- INSTALL METAL ROOF PER MANUFACTURERS RECOMMENDATIONS FOR 150MPH WIND SPEED.

GENERAL UPLIFT CONNECTION NOTES

ROOF ASSEMBLY TO WALL ASSEMBLY: UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD, WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.10.

WALL ASSEMBLY TO WALL ASSEMBLY: STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD, WHEN UPPER STORY WALL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.11.

WALL ASSEMBLY TO WALL ASSEMBLY: FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL, PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" X 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES IN CONCRETE FOUNDATIONS AND SLABS-ON-GRADE, 15 INCHES IN MASONRY BLOCK FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE. 3 INCH SQUARE WASHERS SHALL BE USED ON THE ANCHOR BOLTS AND ANCHOR BOLT SPACINGS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT-DIPPED GALV. AFTER FABRICATION, OR MANUF. FROM G185 OR Z450 GALV. STL. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S601.12.

TABLE S601.1 - ROOF SHEATHING ATTACHMENT REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
|---------------------|------------------------|--|--|--|--|
| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
|---------------------|------------------------|--|--|--|--|
| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
|---------------------|------------------------|--|--|--|--|
| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
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| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
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| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.1 - WALL SHEATHING AND CLADDING REQUIREMENT - WIND LOAD EXP "C"

| SHEATHING LOCATION | RAFTER / TRUSS SPACING | E | | F | |
|---------------------|------------------------|--|--|--|--|
| | | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) | MAX NAIL SPACING FOR 8d COMMON NAILS (INCHES OC) | MAX NAIL SPACING FOR 10d BOX NAILS (INCHES OC) |
| INTERIOR ZONE | 12" OC | 6 | 12 | 6 | 12 |
| | 16" OC | 6 | 12 | 6 | 12 |
| | 24" OC | 6 | 12 | 6 | 12 |
| PERIMETER EDGE ZONE | 12" OC | 6 | 6 | 6 | 6 |
| | 16" OC | 4 | 4 | 4 | 4 |
| | 24" OC | 3 | 3 | 3 | 3 |

150 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

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SHEET TITLE: TYPICAL CONNECTION DETAILS, SCHEDULES, AND NOTES
DRAWING NUMBER: **A104**

SHEET No: 7 of 8

