Mixed Use Building for King Tide Custom Homes

Physical Address 10 Carroll Court

Bluffton, South Carolina 29910

Property Owner

King Tide Custom Homes, LLC

Applicable Codes

2021 International Building Code with SC modifications

2021 International Fire Code with SC modifications

2021 International Mechanical Code with SC modifications

2021 International Plumbing Code with SC modifications

2020 National Electrical Code (NFPA 70) with SC modifications

2009 International Energy Conservation Code

Project Description

New construction for mixed use building with commercial below and

one residential unit above. Building will have sprinklers.

Proposed Square Footage

Heated Square Footage = 2738 square feet (excludes perimeter wall)

Porches = 1024 square feet

First Story

Heated = 1369 square feet

Porches = 512 square feet Second Story

Heated=1369 square feet

Porches = 512 square feet

Proposed Construction Makeup

Wood-framed walls, floors and roof with concrete slab foundation.

Occupancy Classification

First Floor

(Section 304)

Group B - Business

Second Floor (Section 310.4)

Group R-3 - Residential

Type of Construction

Section 602.5

Type VB

Allowable Building Height

Table 504.3

60 feet height.

Allowable Numbers of Stories

Table 504.4 3 Stories

Allowable Building Area Table 506.2

27,000 sq. ft.

Fire Resistance Rating Requirements for Building Elements

Table 601

Type VB construction requires zero hours for the structural frame, exterior and interior bearing walls, exterior and interior nonbearing walls, floor construction and roof construction.

Minimum Number of Exits or Access to Exits per Story

Table 1006.3.3

Two Exits Required Table 1006.2.1

Allows one exit for each story

Maximum Exit Access Travel Distance

Table 1017.2

Group R = 250 feet

Group B = 300 feet

Maximum Floor Area per Occupant

Table 1004.5 First Floor Business

1369 square feet/150 gross = 9.13 = 10 Occupants

Second Floor Residential

1369 square feet/200 gross = 6.85 = 7 occupants

Required Separation of Occupancies

Table 508.4

1 Hour Separation is Required Between Group B and

Group R

Horizontal Assemblies

Section 711.2.4.1 1 Hour Rated between Group B and Group R-3

Corridors - Fire Resistance

1020.2 Exception 2

Not Required for Group R

1020.2 Exception 4

Manual Fire Alarm System

[F] 907.2.2 Group B Not Required

Smoke Alarms

[F]907.2.11.2 Group R-3 Required

Sprinklers |

Section [F]903.2.8

Required

Portable Fire Extinguishers [F] 906.1

Required for Group B Fire Marshal to determine number, location and type

Stove Hood Residential Type

Means of Egress Illumination

Section 1008

Exit Signs Section 1013

Section 1010

Stairs Section 1011

Minimum Width = 36"

Minimum Headroom = 80"

Riser Height = 7" maximum, 4" minimum Tread Depth = 11" minimum

Handrails

Section 1014

Guards Section 1015

Interior Finishes

Table 803.13 See Table for Group B and R3 Sprinkled

Fire Safety

Section 501.2

Approved numbers or addresses shall be provided in a position that is visible and legible from the street or roadway. Letters and numbers shall be a minimum of 4 inches in height with a minimum 0.5-inch

Fire alarm plans and fire sprinkler plans can come in deferred but shall be provided for review and approved prior to work starting on these systems. Stamped plans must be on site while work is being

performed.

The plans review approval from BJWSA shall be provided prior to the permit being issued. The RPZ shown on the site plan may not be

underground.

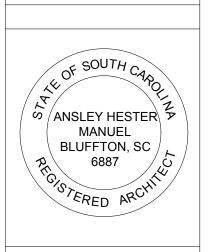
installed

A Knox Box will be required for emergency access after business

FDC shall be on the street side of the building.

Accessibilty

Chapter 11 First floor Group B must be accessible. See A-7 for ANSI Details. OF SOUTH CA. MANUEL STUDIO, LLC BLUFFTON, SC



DATE: 12/6/23

Architect h Carolina 29910 ιι*ດ@*aol.com

ANUEL 104

ANALYSIS AND

SHEET

C-1



C-1 CODE ANALYSIS, INDEX

C-2 PROPOSED SITE PLAN

A-1 FIRST & SECOND FLOOR PLANS

A-2 ROOF PLAN

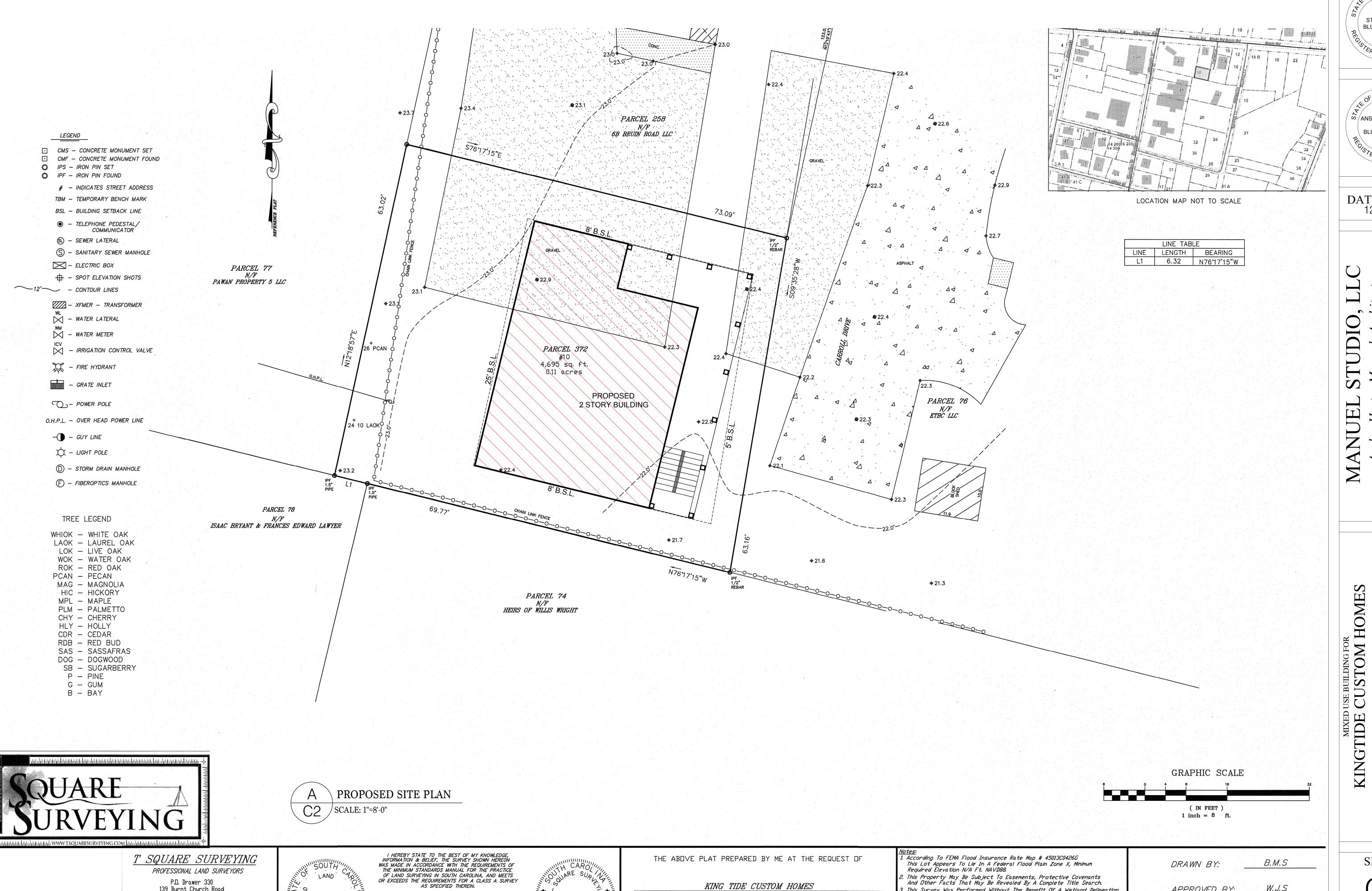
A-3 ELEVATIONS

A-4 WALL SECTIONS

A-5 PORCH SECTION

A-7 ANSI ILLUSTRATIONS

A-6 SCHEDULES & DETAILS



KING TIDE CUSTOM HOMES

A TREE & TOPOGRAPHIC SURVEY OF PARCEL 372 CARROLL COURT,

DISTRICT 610, TAX MAP 39A,

TOWN OF BLUFFTON, BEAUFORT COUNTY, SOUTH CAROLINA.

DIST. 610, MAP 39A, PARCEL 372

LAND

WILLIAM J. SMITH, PLS # 26960

P.O. Drawer 330

139 Burnt Church Road Bluffton, S.C. 29910

tsquare@hargray.com

Phone 843-757-2650 Fax 843-757-5758

J□B No. 23-291T

MANUEL STUDIO, LLC BLUFFTON, SC



DATE : 12/6/23

104

SITE PROPOSED

SHEET

APPROVED BY: __

DATE: JULY 12, 2023

PARTY CHIEF:

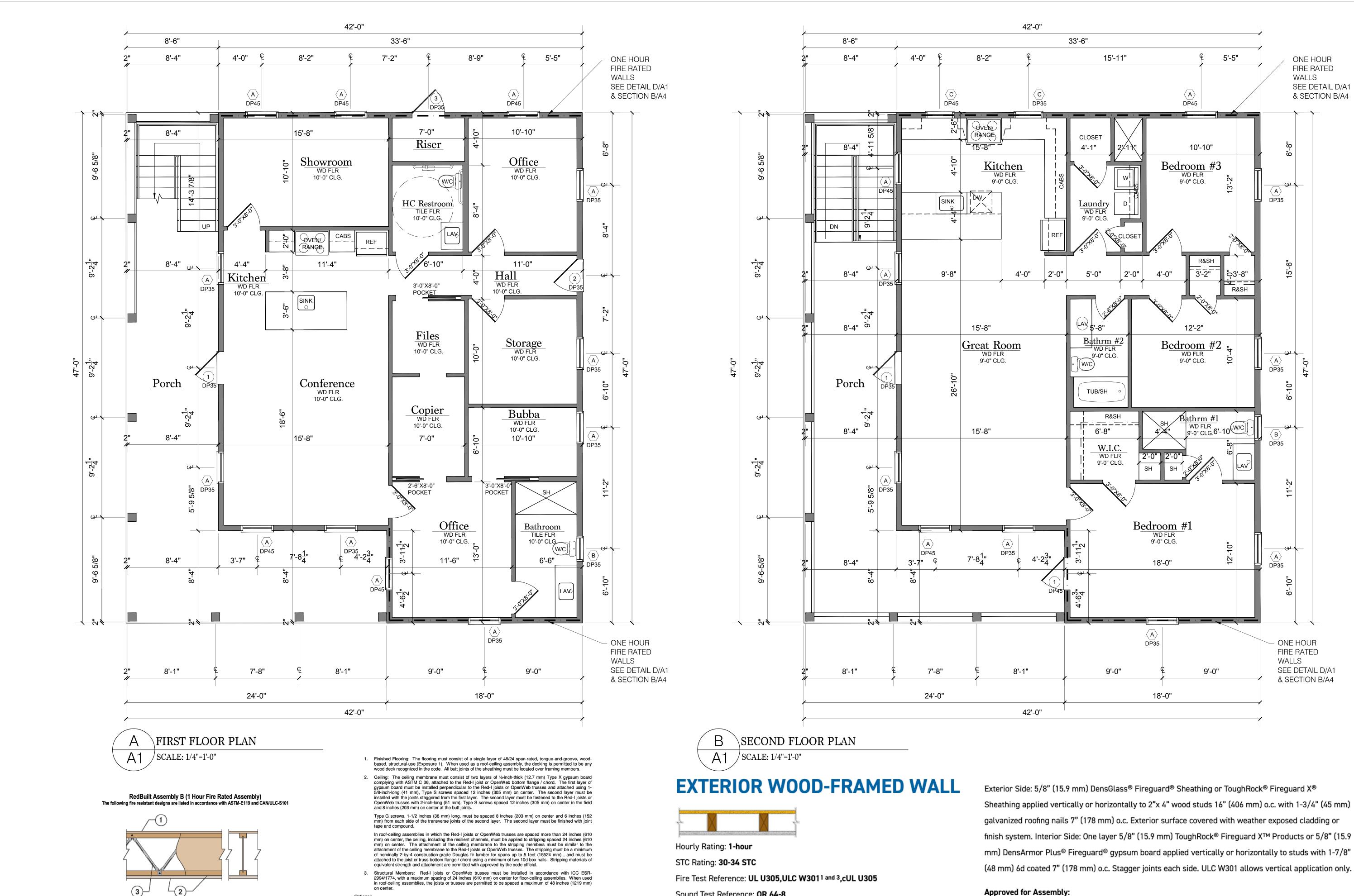
2. This Property May Be Subject To Easements, Protective Covenants And Other Facts That May Be Revealed By A Complete Title Search.

4. All Bullding Setback Requirements Should Be Verified With The Proper Authorities Prior To Design And Construction.

Reference Plat(s):

PLAT BOOK 147 AT PAGE 1

R. This Survey Was Performed Without The Benefit Of A Wetland Delineation.



STUDIO, LLC BLUFFTON, SC

5'-5"

ONE HOUR

A DP35

A DP35

DP35

ONE HOUR

FIRE RATED

SEE DETAIL D/A1

& SECTION B/A4

WALLS

FIRE RATED

SEE DETAIL D/A1

& SECTION B/A4



DATE:

12/6/23

MIXED USE BUILDING FOR KINGTIDE CUSTOM HOME

SECOND FLOOR

SHEET

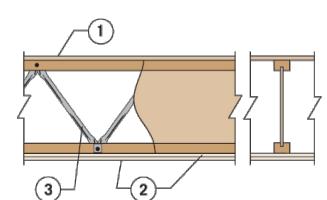
A1

Sound Test Reference: **OR 64-8**

ONE HOUR FIRE RATED EXTERIOR WALL DETAIL A1 SCALE: N.T.S.

Approved for Assembly:

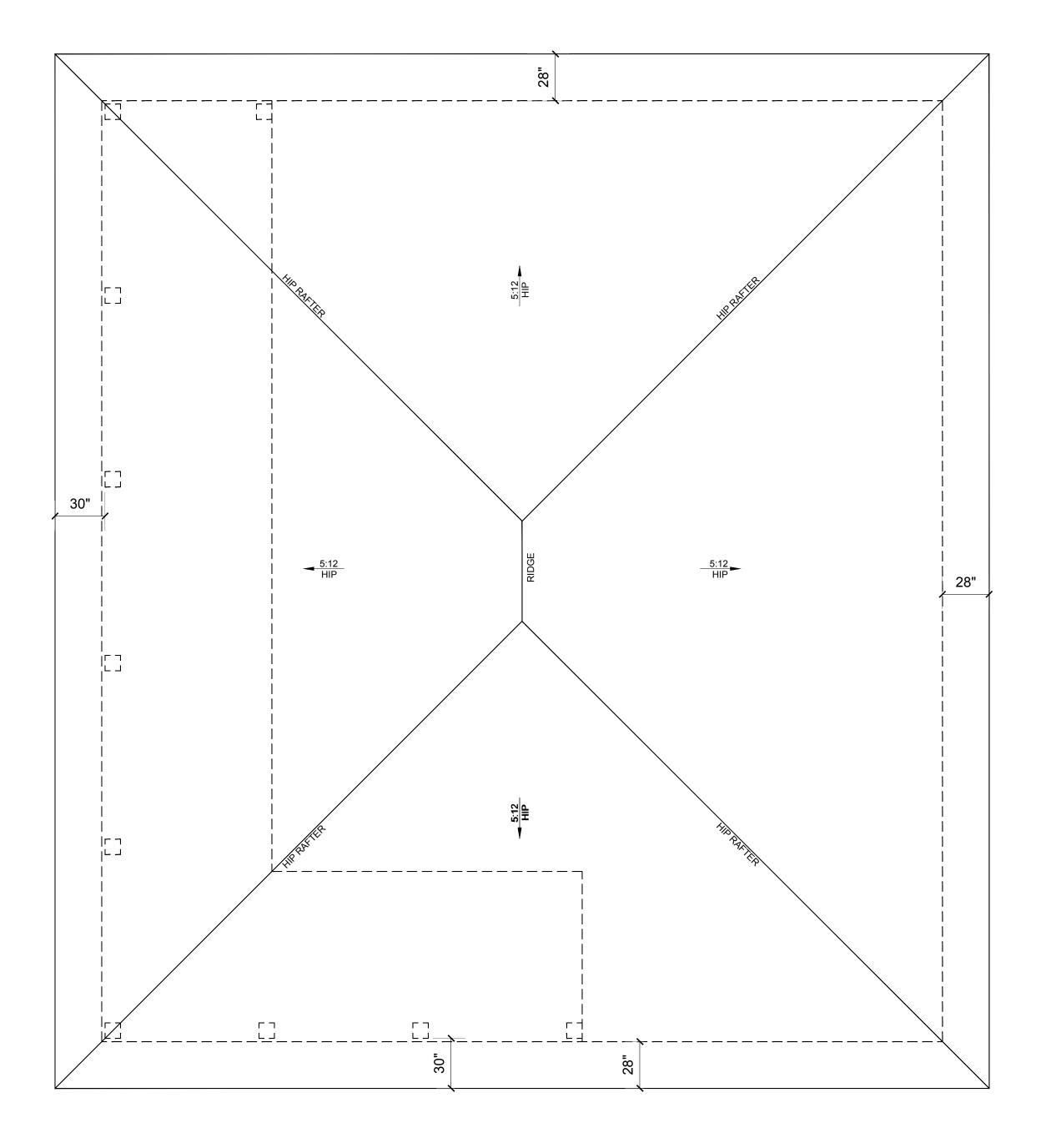
DensArmor Plus® Fireguard C® Products,DensArmor Plus® Fireguard® Products,DensElement™ Barrier Sheathing, Dens Glass® Fireguard® Sheathing, Dens Shield® Fireguard® Tile Backer, Tough Rock® Fireguard C® Products,ToughRock® Fireguard X™ Mold-Guard™ Products,ToughRock® Fireguard X™ Products, Tough Rock® Lite-Weight Fire-Rated Products



ONE HOUR FIRE RATED **\FLOOR/CEILING DETAIL** A1 scale: N.T.S.

Resilient Channels (RC-1): Are permitted to be used as part of the ceiling attachment system, provided they are spaced 16 inches (406 mm) on center [24 inches (610 mm) on center if the joists or trusses are spaced 16 inches (406 mm) on center] and fastened perpendicular to the Red-I joists or OpenWeb trusses using 1-inch-long (25.4 mm), Type S screws. When resilient channels are used, the first layer of the ceiling membrane must be installed perpendicular to the channels and attached to the resilient channels using 1-inch-long (25.4 mm). Type S screws spaced 12 inches (305 mm) on center. The second layer must be installed with the joints staggered from the first layer and attached using 1-5/8-inch-long (41 mm), Type S screws. The screw spacing for the second layer of gypsum board must be a maximum of 12 inches (305 mm) on center in the field and 8 inches (203 mm) on center at the butt joints.

Type G screws, 1-1/2 inches (38 mm) long, must be spaced 8 inches (203 mm) on center and 6 inches (152 mm) from each side of the transverse joints of the second layer. The second layer must be finished with joint tape and compound. Insulation: Minimum 3-1/2-inch-thick (89 mm) glass fiber insulation rated R-30 or less may be installed in the joist or truss plenum when resilient channels are used. The insulation must be placed above the resilient channels between the joist or truss bottom flanges / chords.









DATE : 12/6/23

ROOF PLAN

MIXED USE BUILDING FOR
KINGTIDE CUSTOM HOMES
10 CARROLL COURT
BLUFFTON, SC 29910

SHEET



A EAST (CARRO A3 SCALE: 1/4"=1'-0" EAST (CARROLL COURT) ELEVATION

C WEST ELEVATION

A3 SCALE: 1/4"=1'-0"

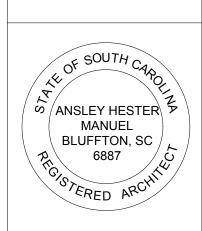


NORTH ELEVATION A3 SCALE: 1/4"=1'-0"



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





DATE:

12/6/23

MANUEL STUDIO, LLC

Ansley Hester Manuel, Architect
104 Pritchard Street, Bluffton, South Carolina 29910
843.338.8932 cell manuel.studio@aol.com

MIXED USE BUILDING FOR

KINGTIDE CUSTOM HOMES

10 CARROLL COURT

BLUFFTON, SC 29910 ELEVATIONS

SHEET

MANUEL STUDIO, LLC BLUFFTON, SC 100072

ANSLEY HESTER

MANUEL
BLUFFTON, SC
6887

RIGISTERED ARCHIE

DATE : 12/6/23

12/6/23

Ansley Hester Manuel, Architect
104 Pritchard Street, Bluffton, South Carolina 29910
843 338 8932 cell manuel studio@aol.com

UFFTON, SC 29910

L SECTIONS

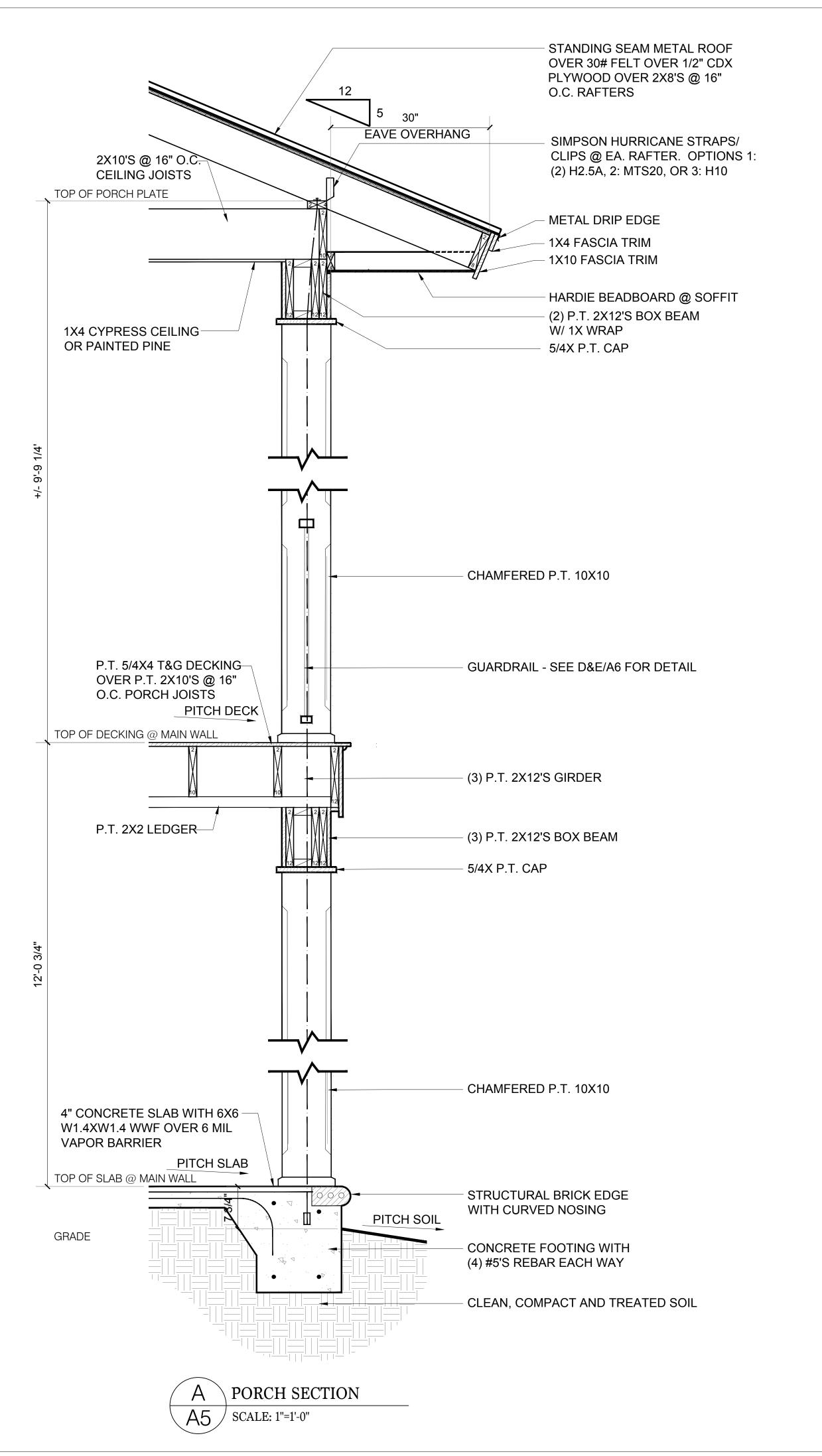
MIXED USE BUILDING FOR

IN CARROLL COURT

BLUFFTON, SC 29910

SHEET

A4



MANUEL
STUDIO, LLC
BLUFFTON, SC
100072

PRED ARCHITE



DATE : 12/6/23

12/6/23

Ansley Hester Manuel, Architect
104 Pritchard Street, Bluffton, South Carolina 29910
843.338.8932 cell manuel.studio@aol.com

10 CARROLL COURT
BLUFFTON, SC 29910
PORCH SECTION

MIXED USE BUILDING FOR

KINGTIDE CUSTOM HOMES

10 CARROLL COURT

BLUFFTON, SC 29910

SHEET

A5

ROOM SCHEDULE						
ROOM	FLOOR	WALL	CEILING	BASE	CASE	CROWN
PORCH						
CONFERENCE						
KITCHEN						
SHOWROOM						
H/C RESTROOM						
OFFICE						
HALL						
STORAGE						
FILES						
COPIER						
OFFICE						
BUBBA						
BATHROOM						
SECOND FLOOR PORCH						
GREAT ROOM						
KITCHEN						
LAUNDRY						
BEDROOM #1						
BATHROOM #1						
W.I.C.						
BEDROOM #2						
BATHROOM #3						
BEDROOM #3						

A6 SCALE: 1"=1'-0"

DOOR SCHEDULE					
MARK	WIDTH & HEIGHT	TYPE	LITES	REMARKS	
1	3'-0"X8'-0"	HALF GLASS, OUTSWING	4		
2	3'-0"X8'-0"	HALF GLASS, INSWING	4		
3	3'-0"X8'-0"	4-PANEL, OUTSWING	N/A		

ALL EXTERIOR DOORS TO BE ALUMINUM CLAD (EXTERIOR), WOOD (INTERIOR) UNLESS

OTHERWISE NOTED.

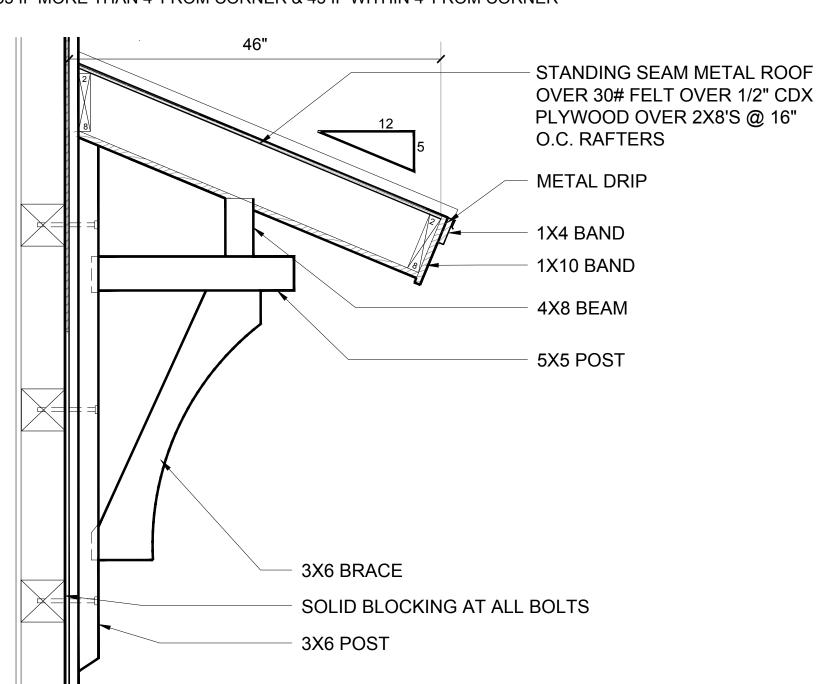
7/8" MUNTIN WIDTHS SIMULATED DIVIDED LITES.

ALL GLASS TO BE IMPACT RESISTANT.

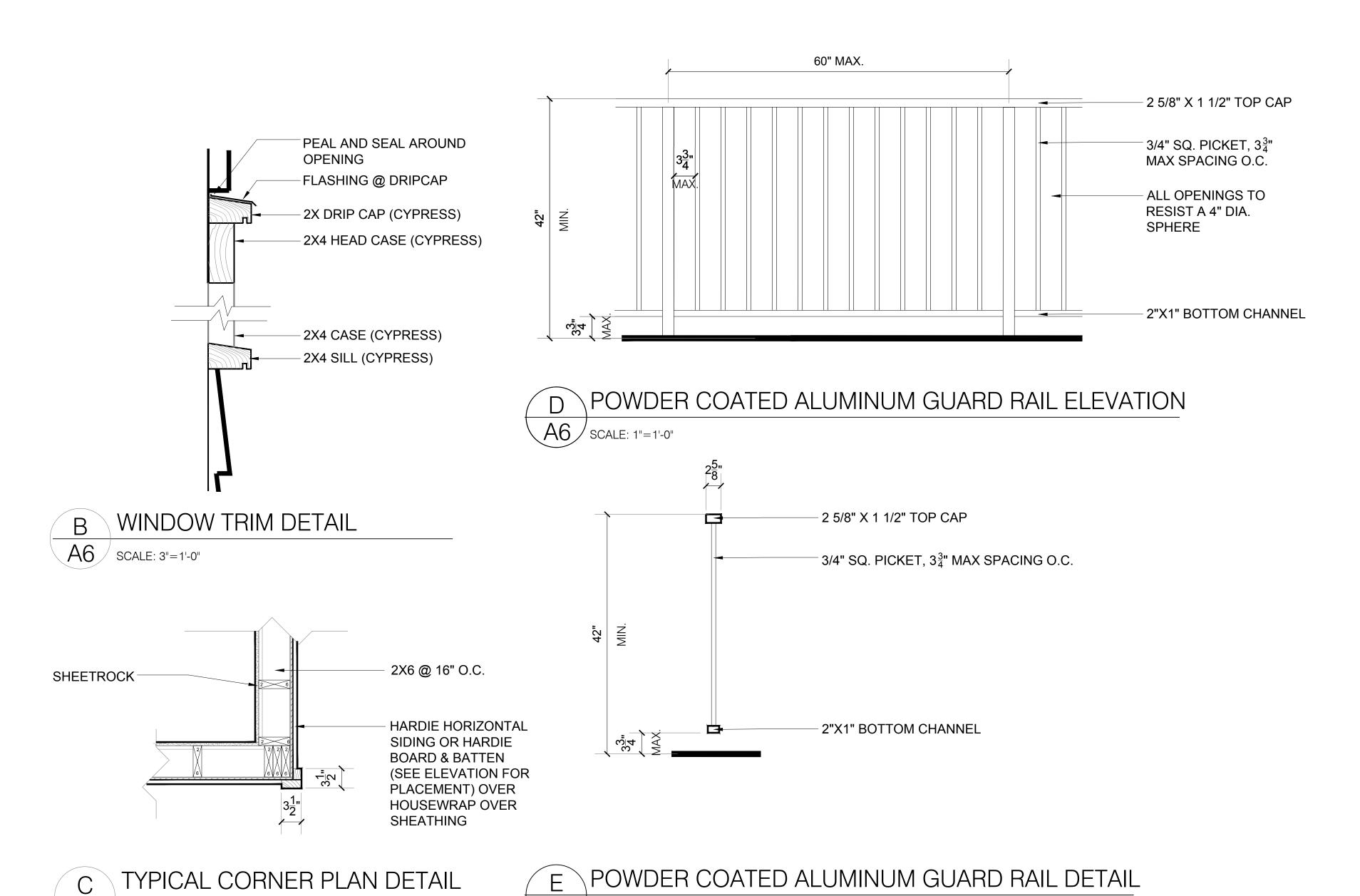
DP RATINGS ARE 35 IF MORE THAN 4' FROM CORNER & 45 IF WITHIN 4' FROM CORNER

WINDOW SCHEDULE						
MARK	WIDTH & HEIGHT	TYPE	LITES	REMARKS		
Α	3'-0" X 5'-4"	CASEMENT	4			
В	2'-4" X 3'-8"	CASEMENT	4			
С	2'-8" X 4'-8"	CASEMENT	4			

ALL WINDOWS ARE WOOD INTERIOR AND CLAD EXTERIOR.
7/8" MUNTIN WIDTHS SIMULATED DIVIDED LITES.
ALL GLASS TO BE IMPACT RESISTANT.
DP RATINGS ARE 35 IF MORE THAN 4' FROM CORNER & 45 IF WITHIN 4' FROM CORNER

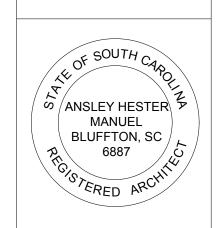






A6 SCALE: 1"=1'-0"

MANUEL STUDIO, LLC BLUFFTON, SC 100072



DATE : 12/6/23

910

INIAINUEL SIUDIO, LLC
Ansley Hester Manuel, Architect
104 Pritchard Street, Bluffton, South Carolina 29910
843.338.8932 cell manuel.studio@aol.com

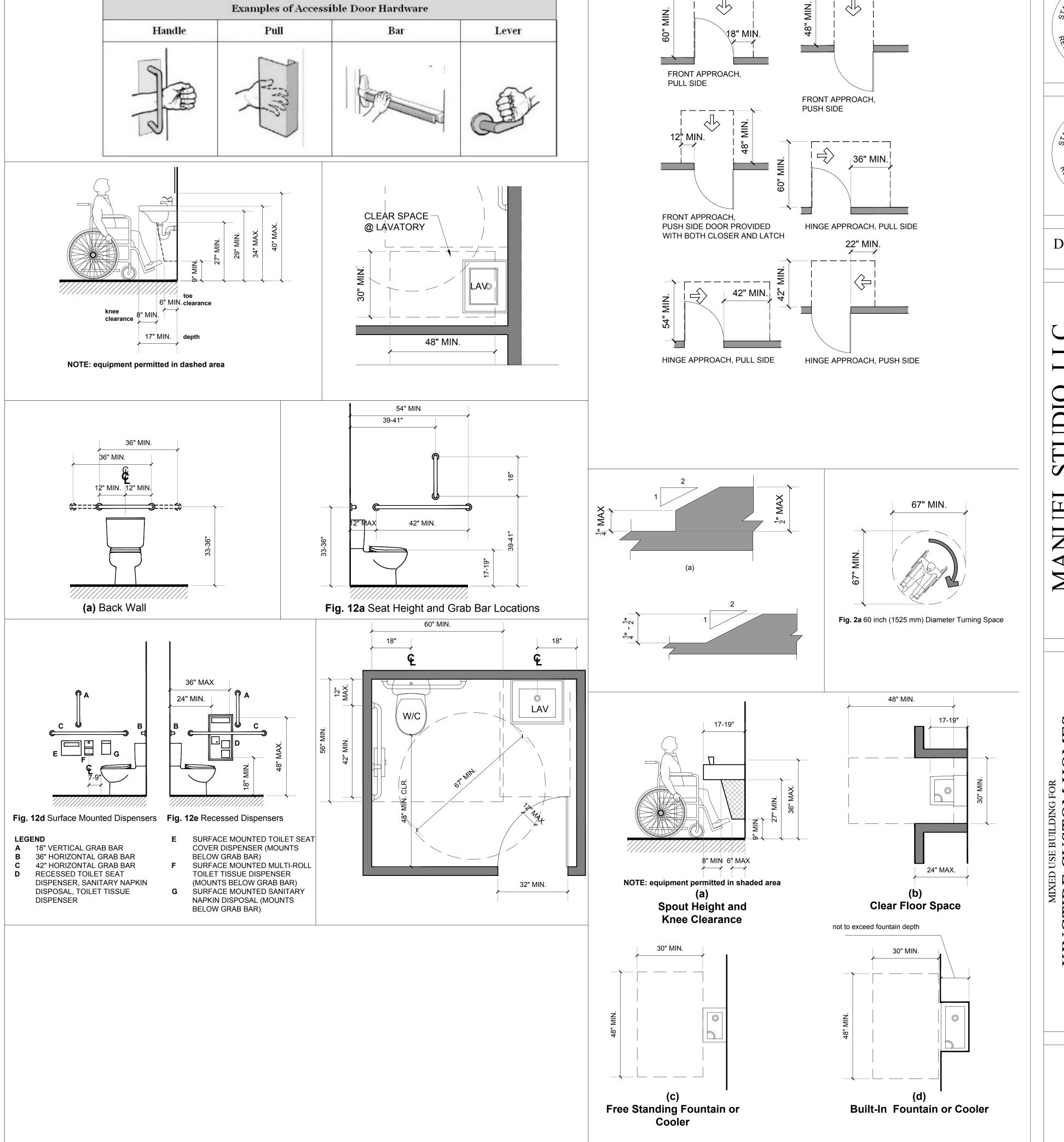
SCHEDULES & DETAILS

KINGTIDE CU

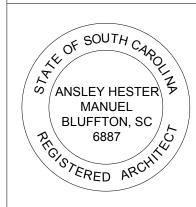
SHEET

A6

ATTACHMENT 3



MANUEL STUDIO, LLC BLUFFTON, SC 100072



DATE : 12/6/23

ANSI ILLUSTRATIONS

SHEET