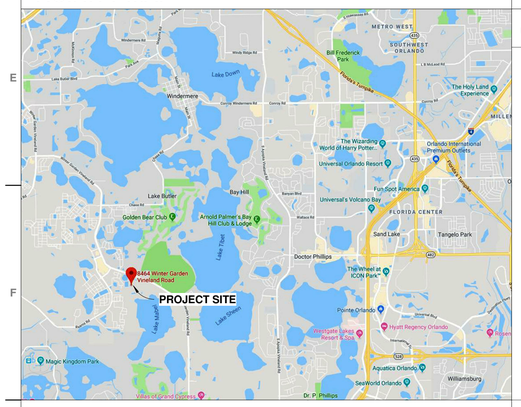
A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:

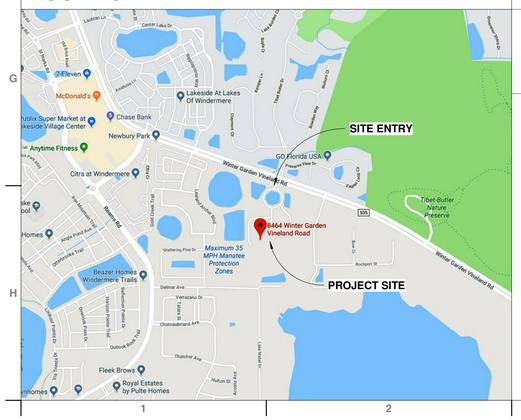
FBC WINDERMERE LAKESIDE CAMPUS

NOTE: PERSPECTIVE RENDERINGS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT INTENDED FOR REFERENCE DURING CONSTRUCTION.

VICINITY MAP



LOCATION MAP



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G-001	COVER SHEET
G-002	PROJECT STANDARDS, LEGENDS AND CODE REVIEW
G-101	LIFE SAFETY PLAN - FIRST FLOOR

CIVIL

(UNDER SEPARATE CONTRACT WITH OWNER)

STRUCTURAL

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GREENVILLE, SC 29601
FRANK REPPI
864-271-8869
FREPPI@BRITTPETERS.COM

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S-102	ROOF FRAMING PLAN - WORSHIP BUILDING
S-201	FOUNDATION PLAN - CHILDREN'S BUILDING
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S-510	METAL DECKING DETAILS

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AD051	DEMO PLAN - SITE AND MODULARS
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FIRE PROTECTION

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FP-101	FIRE PROTECTION NOTES & FLOOR PLAN

MECHANICAL

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M-001	MECHANICAL SCHEDULES, LEGEND, AND NOTES
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P-001	PLUMBING LEGEND AND NOTES
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E-001	ELECTRICAL LEGEND AND NOTES
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140 WEST EVANS STREET SUITE 203 FLORENCE, SC 29503

A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:
FBC WINDERMERE LAKESIDE CAMPUS
8464 WINTER GARDEN VINELAND ROAD
ORLANDO, FL 32836

#	DESCRIPTION	DATE
B	DESIGN DEVELOPMENT	11/01/2019
A	SCHEMATIC DESIGN	08/09/2019

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

PROJECT NUMBER: 190106
PROJECT DATE: 11/01/2019
PROJECT MANAGER: SLT
PROJECT TEAM: RSK, HWB

COVER SHEET

G-001

NOTICE:
DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.

(NOT FOR CONSTRUCTION) PHASE 01

ABBREVIATIONS

A/C	AIR CONDITIONING
ADMIN	ADMINISTRATION
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIOVISUAL
AWP	ACOUSTICAL WRAPPED PANEL
BITUM	BITUMINOUS
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
CAB	CABINET
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUE, CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CU FT	CUBIC FOOT
CU YD	CUBIC YARD
CWT	CERAMIC WALL TILE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DS	DOWNSPOUT
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENCL	ENCLOSE(D)
EOS	EDGE OF SLAB
EP	EXTERIOR PAINT
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EXIST	EXISTING
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF EL	FINISH FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN FLR	FINISHED FLOOR
FLR	FLOOR, FILLER
FOC	FACE OF CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF SLAB
FOW	FACE OF WALL
FT	FOOT, FEET
FTG	FOOTING
FURN	FURNISH, FURNITURE
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HC	HANDICAP
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
INCL	INCLUDE(D), (ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR CLOSET
KIT	KITCHEN
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE
LAU	LAUNDRY
LAV	LAVATORY
LF	LINEAR FEET
LIN	LINOLEUM
LM	LAMINATING METAL
LVR	LOUVER
LVT	LUXURY VINYL TILE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OPT	OPTION(AL)
P	PAINT
PC	POLISHED CONCRETE
PCF	POUNDS PER CUBIC FEET
PL	PLASTIC LAMINATE
PLAM	PLASTIC LAMINATE
PLF	POUNDS PER LINEAR FEET
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISH
PRKG	PARKING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, POST-TENSIONED, PRE-TREATED
PT	PORCELAIN TILE
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWB	PORCELAIN WALL BASE
PWT	PORCELAIN WALL TILE
QC	QUARTZ COUNTERTOP
QTR	QUARTER
QTY	QUANTITY
R	RADIUS, RISER
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFRIGERATOR, REFERENCE
REQD	REQUIRED
RM	ROOM
RN	RUBBER NOSING
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSTR	RUBBER STAIR TREAD/RISER
S	SOUTH
SAT	SUSPENDED ACOUSTICAL TILE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SLC	SEALED CONCRETE
SNC	STAINED CONCRETE
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSC	SOLID SURFACE
STD	STANDARD
STOR	STORAGE
SUSP	SUSPENDED
SYS	SYSTEM
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPORARY
TFF	TOP OF FINISH FLOOR
THK	THICKNESS
THRU	THROUGH
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE, CURB
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOW	TOP OF WALL
TR	TRANSITION STRIP
TRTD	TREATED
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VINYL PLANK FLOORING
W	WEST, WIDE
W	ACOUSTICAL CEILING TILE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WC	WALLCOVERING
WD	WOOD
WDM	WOOD DOOR MATERIAL
WDP	WOOD PANEL
WF	WINDOW FILM
WP	WORKING POINT, WATERPROOFING
WR	WATER REPELLENT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

MATERIAL LEGEND

PLAN AND SECTION

- EARTH
- POROUS FILL (STONE OR GRAVEL)
- CONCRETE
- BRICK
- CONC. MASONRY UNITS (CMU)
- PLASTER, CEMENT, SAND, GROUT, GYPSUM WALLBOARD
- STEEL, IRON
- ALUMINUM
- WOOD BLOCKING
- PLYWOOD
- STONEWOOL INSULATION
- BATT/LOOSE FILL INSULATION
- RIGID INSULATION

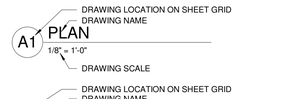
ELEVATION

- CMU BLOCK, MASONRY VENEER
- METAL PANEL
- FIBER CEMENT LAP SIDING
- EIFS, STUCCO, CONCRETE

* **NOTE**: SEE ELEVATIONS FOR DETAILS.

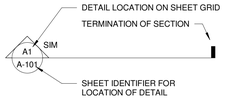
GRAPHIC SYMBOL LEGEND

DRAWING TITLE SYMBOLS

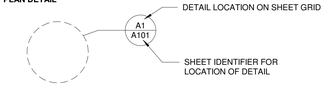


DETAIL SYMBOLS

SECTION DETAIL



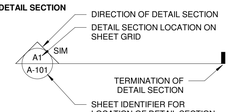
PLAN DETAIL



SECTION SYMBOLS

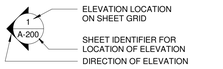
BUILDING SECTION

DETAIL SECTION

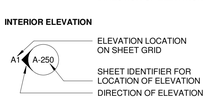


ELEVATION SYMBOLS

EXTERIOR ELEVATION



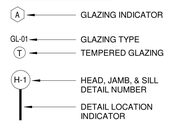
INTERIOR ELEVATION



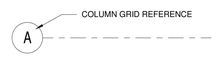
PLAN SYMBOLS

ROOM INDICATORS

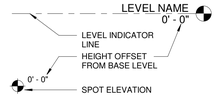
GLAZING SYMBOLS



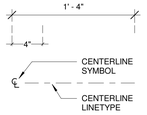
GENERAL ANNOTATION SYMBOLS



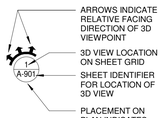
ELEVATION INDICATORS



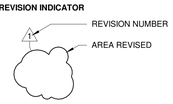
TYPICAL DIMENSION INDICATOR



3D VIEW INDICATOR



REVISION INDICATOR



CODE REVIEW

Codes In Use

2017 Florida Building Code - Building, 6th Edition
Electrical Standard - 2017 Florida Building Code - Building, 6th Edition - Chapter 27
2017 Florida Building Code - Mechanical, 6th Edition
2017 Florida Building Code - Plumbing, 6th Edition
2017 Florida Building Code - Fuel Gas, 6th Edition
2017 Florida Building Code - Accessibility, 6th Edition
2017 Florida Building Code - Energy Conservation, 6th Edition
2017 Florida Building Code - Test Protocols, 6th Edition
2015 NFPA 101 Life Safety Code

Project Description and Scope of Work

Scope of Work Description.

Occupancy Classification

Primary: Assembly Group A-3 (FBC 303.4). Place of Religious Worship
Educational Group E (FBC 305.2). Day Care Facilities
Incidental Uses:
Storage (Reference)

FEMA Flood Zone Designation

Zone: X (Area of Minimal Flood Hazard)

Type of Construction

Type IIB Sprinklered (FBC 602.2)

Platform Construction (FBC 410.4): *"Permanent platforms shall be constructed of materials as required for the type of construction of the building in which the permanent platform is located ... Where the space beneath the permanent platform is used only for equipment, wiring or plumbing, the underside of the permanent platform need not be protected."*

FBC (Building) Chapter 5 - Height and Area Modifications

506.2.2 Mixed-Occupancy, one-story buildings.

508.3 Nonseparated occupancies. **Per Table 508.4, no separation requirement between Groups A and E.**

508.3.2 Allowable building area and height. The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

Actual Building Area
Existing (First Floor): 20,470 SF
New Additions (First Floor): 13,255 SF
Total Building: 33,725 SF

	Allowable	Actual
Building Height (FBC Table 504.3):	75' (sprinklered)	35'
Number of Stories (FBC Table 504.4):	3 (sprinklered)	1
Area (At - FBC Table 506.2):	38,000 SF (sprinklered)	
Total Area Per Story (w/ modifications):	?? SF	33,725 SF

*1 FBC Equation 5-1
Aa = [At + [NS x (If)]
Aa = [38,000 + [9,500 x ???]]
Aa = [38,000 + ???]
Aa = ??? SF

*2 FBC Equation 5-5
If = [FP - 25] W / 30
If = [?? / ?? - 25] ?? / 30
If = [??] ??
If = ??

*3 FBC Equation 5-4
W = [L1 x w1 + L2 x w2 + L3 x w3...) / F
W = (?? x 30) / ??
W = ??

FBC (Building) Chapter 6 - Types of Construction

FBC - Table 601 ***Fire - Resistance Requirements For Building Elements*** **(hours)**

Building Element	Type I		Type II		Type III		Type IV	Type V	
	A	B	Ad	B	Ad	B	HT	Ad	B
Primary Structural Frame *g* (see Section 202)	3a	2a	1	0	1	0	HT	1	0
Bearing Walls Exterior *f,g* Interior	3 3a	2 2a	1 1	0 0	2 1	2 0	2 1/HT	1 1	0 0
Nonbearing Walls and Partitions Exterior	See Table 602								
Nonbearing Walls and Partitions Interior *e*	0	0	0	0	0	0	See Section 602.4.6	0	0
Floor Construction and Associated Secondary Members (see Section 202)	2	2	1	0	1	0	HT	1	0
Roof Construction and Associated Secondary Members (see Section 202)	1 1/2*b*	1 *b,c*	1 *b,c*	0 *c*	1 *b,c*	0 *b,c*	HT	1 *b,c*	0

c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.

FBC (Building) Chapter 6 - Types of Construction (cont.)

FBC - Table 602 ***Fire - Resistance Requirements For Exterior Walls Based On Separation Distance*** *a, e, h*

Fire Separation Distance = X (feet)	Type of Construction	Group H/	Group F-1, M, S-1*g*	Group A, B, E, F-2, I, R, S-2*g*, U*b*
X<5	All	3	2	1
5≤X<10	I-A	3	2	1
	Others	2	1	1
10≤X<30	IA, IB	2	1	1*d*
	IIB, VB	1	0	0
	Others	1	1	1*d*
X≥30	All	0	0	0

a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
e. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
h. Where Table 705.8 permits nonbearing exterior walls with unlimited area of unprotected openings, the required fire-resistance rating for the exterior walls is 0 hours.

FBC (Building) Chapter 7 - Fire and Smoke Protection Features

FBC - Table 705.8 ***Maximum Area of Exterior Wall Openings Based on Fire Separation Distance and Degree of Opening Protection*** **(partial table)**

Fire Separation Distance (feet)	Degree Of Opening Protection	Allowable Area *a*
30 or greater	Unprotected, nonsprinklered (UP, NS)	No Limit
	Unprotected, Sprinklered (UP,S) *c*	Not Required
	Protected (P)	Not Required

a. Values indicated are the percentage of the area of the exterior wall, per story.
b. For the requirements for fire walls of buildings with differing heights, see Section 706.6.1.
c. For openings in a fire wall for buildings on the same lot, see Section 706.8.

Table 706.4	Fire Wall Fire-resistance Rating:	In Type II construction, Group A, walls shall be permitted to have a 2-hour fire resistance rating.
706.5	Horizontal Continuity:	(Ex 3) Fire walls shall be permitted to terminate at the interior surface of noncombustible exterior sheathing where the building on each side of the fire wall is protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2.
706.6	Vertical Continuity:	(Ex 3) Walls shall be permitted to terminate at the underside of noncombustible roof sheathing, deck or slabs where both buildings are provided with not less than a Class B roof covering. Openings in the roof shall not be located within 4 feet of the fire wall.

FBC - Table 716.5 ***Opening Fire Protection Assemblies, Ratings and Markings*** **(partial table)**

Type Of Assembly	Required Wall Assembly Rating (hours)	Minimum Sidelight/ Transom And Fire Shutter Assembly Rating (hours)	Door Vision Panel Size	Fire Rated Glazing Marking Door Vision Panel *e*	Minimum Sidelight/ Transom Assembly Rating (hours)		Fire-Rated Glazing Marking Sidelite/Transom Panel	
					Fire protection	Fire resistance	Fire protection	Fire resistance
Fire walls and fire barriers having a fire-resistance rating greater than 1 hour	3	3a	Not Permitted	Not Permitted	Not Permitted	3	Not Permitted	W-180
	2	1 1/2	100 sq. in. *c*	<100 sq.in. = D-H-90;>100 sq.in.= D-H-W-90	Not Permitted	2	Not Permitted	W-120
	1 1/2	1 1/2	100 sq. in. *c*	<100 sq.in. = D-H-60;>100 sq.in.= D-H-W-60	Not Permitted	1 1/2	Not Permitted	W-90
Other fire barriers	1	3/4	Maximum size tested.	D-H-NT-45	3/4		D-H-NT-45	

f. For places of religious worship, wood used for ornamental purposes, trusses, paneling or chancel furnishing shall be permitted.

Finish Classification (LSC Chapter 12)

LSC 12.3.3 Interior Wall and Ceiling Finish Requirements by Occupancy (Ch. 12 - New Assembly)

Corridors and Lobbies:	Class B
Enclosed Stairways:	Class A
General Assembly Areas with < 300 occupants:	Class C
All Other Enclosed Spaces:	Class A

Fire Protection Systems (LSC Chapter 12)

Project is located in: Fire District
NFPA 13 Automatic Sprinkler System: Provided throughout Building

LSC 12.3.4 Detection, Alarm, and Communications Systems. Assembly Occupancies with > 300 occupants shall be equipped with a fire alarm system installed, tested, and maintained in accordance with the applicable requirements of NFPA 70, National Electrical Code, NFPA 72, and National Fire Alarm Code.
LSC 12.3.4.2.1 Exception 2. Initiation. Manual means of alarm initiation shall not be required where the fire alarm system is initiated by means of an approved automatic sprinkler system in accordance with LSC 9.6.2.1 (3).
LSC 12.3.5.1 Extinguishing Requirements. Assembly Occupancies with > 300 occupants shall be protected by an approved, supervised automatic sprinkler system in accordance with Section 9.7. **NOTE**: Existing Sprinkler System to be maintained (Refer to Fire Protection drawings).

Means of Egress (LSC and FBC references noted below)

Occupancy Calculation: Assembly (A-3)

Total Occupants (See Life Safety Plan):	**1,908** Occupants
Common Path of Egress Travel:	**20'** for any number of occupants (LSC 12.2.5.1) **75'** for not more than 50 occupants (LSC 12.2.5.1)
Maximum Travel Distance:	**250'** w/ sprinklers (LSC 12.2.6 Exception 1)
Exit Access Corridor Rating:	**No Requirements** (LSC 12.3.6 Exception 2), **0 Hr** (FBC - Table 1020.1)
Minimum Required Corridor Width:	**36"** (LSC 7.3.4.1) **44"** for corridors serving > 50 occupants (LSC 12.2.3.8)
Maximum Dead End Corridor Length:	**20'** (LSC 12.2.5.1.3)
Minimum Number of Exits:	**Not less than 3** for occupant load > 500 and < 1,000 (LSC 7.4.1.2 (1)) **Not less than 4** for occupant load > 1,000 (LSC 7.4.1.2 (2))
Headroom Requirements:	**Not less than 7'-6"** clear height (LSC 7.1.5.1) **Not less than 6'-8"** clear height to ceiling projections (LSC 7.1.5.1)
Egress Capacity Factors:	**Stairways = 0.3" per person** (LSC Table 7.3.3.1) **Level Components and Ramps = 0.2" per person** (LSC Table 7.3.3.1)

FBC (Accessbility)

TBD	Sixty percent of all public entrances shall be accessible.
	Exception 2: Loading and Service Entrances that are not the only entrance to a tenant space.
TBD	Sinks: ≥ 5% but not less than one provided in accessible spaces shall comply with ICC A117.1.
TBD	Drinking Fountains: Required.
TBD	Directional Signage: Required at inaccessible building entrances and at each separate-sex toilet indicating the nearest family/assisted use toilet.

FBC (Building) Chapter 15 - Roof Assemblies And Rooftop Structures

Roof Covering Classification: Class C or Better (FBC Table 1505.1)

FBC (Building) Chapter 17 - Special Inspections - Required

(See Structural Specification)

FBC (Plumbing) Chapter 4 - Fixtures, Faucets and Fixture Fittings

Table 403.1 ***Minimum Number of Plumbing Fixtures***

Occupants * 1,908 = 954M / 954W	Fixture	Required		Provided		
		Male	Female	Male	Female	Unisex
Assembly (A-3)	Water Closet	1 per 150 = 6.36	1 per 75 = 12.72	9	14	5
	Lavatories	1 per 200 = 4.77	1 per 200 = 4.77	7	12	5
	Showers	0	0	0	0	0
	Drinking Fountains	1 per 1,000 = 2 required		4 Existing + 2 New		
	Service Sink	1 service sink required		1 provided		

* Occupant load based on Life Safety Plans (See sheet G-101).
** 403.1.2 Family or assisted-use toilet and bath fixtures. Fixtures located within...assisted-use toilet...are permitted to be included in the number of required fixtures for either the male or female occupants in assembly...occupancies.
*** 419.2 Substitution for water closets. In each bathroom or toilet room, urinals shall not be substituted for more than 67 percent of the required water closets in assembly...occupancies.

FBC (Energy Conservation) Table C402.1.3 BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES
Partial Table - Climate Zone 2A

	Description		Min. Req.	Provided
Roofs	Insulation Entirely Above Deck		R-25ci	R-25ci
Walls, Above Grade	Metal Framed		R-13 + R-5ci	R-13 + R-5ci
Walls, Below Grade	Below Grade Wall		NR	0
Floors	Joist / Framing (steel / wood)		R-30	N/A
Slab-on-Grade Floors	Unheated Slab		NR	0
	Opaque Doors	Swinging	N/A	N/A
		Nonswinging	R-4.75	N/A

NOTE: FINAL CODE REVIEW ANALYSIS IN PROGRESS - NOT FOR CONSTRUCTION OR PERMIT.

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A PHASE 01 FACILITY RENOVATION & EXPANSION FOR:

FBC WINDERMERE LAKESIDE CAMPUS

8464 WINTER GARDEN VINELAND ROAD
ORLANDO, FL 32836

#	DESCRIPTION	DATE
B	DESIGN DEVELOPMENT	11/01/2019
A	SCHEMATIC DESIGN	08/09/2019

SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

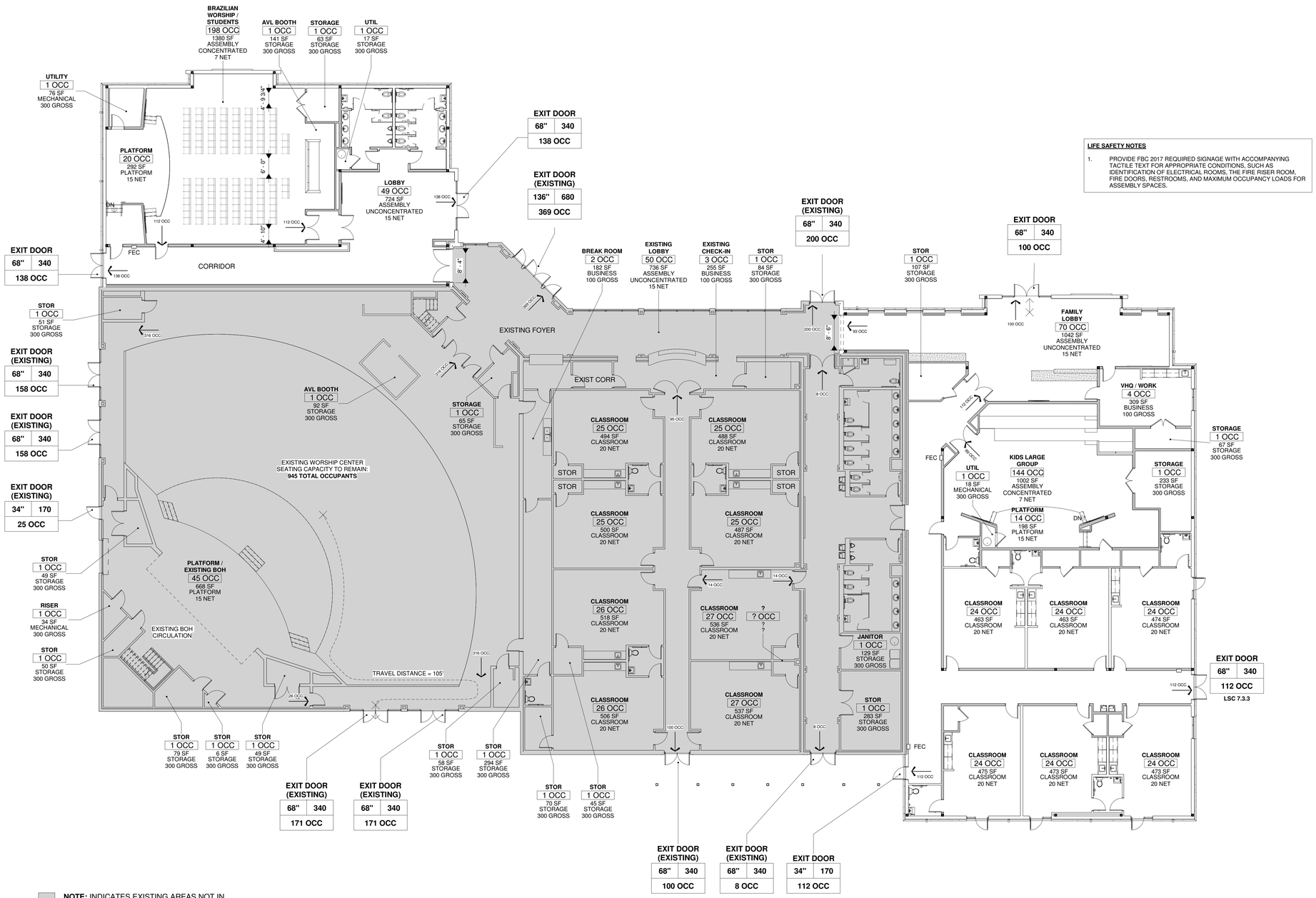
PROJECT NUMBER: 190106
PROJECT DATE: 11/01/2019
PROJECT MANAGER: SLT
PROJECT TEAM: RSK, HWB

PROJECT STANDARDS, LEGENDS AND CODE REVIEW

G-002

NOTICE:
DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.

(NOT FOR CONSTRUCTION) PHASE 01



LIFE SAFETY NOTES

1. PROVIDE FBC 2017 REQUIRED SIGNAGE WITH ACCOMPANYING TACTILE TEXT FOR APPROPRIATE CONDITIONS, SUCH AS IDENTIFICATION OF ELECTRICAL ROOMS, THE FIRE RISER ROOM, FIRE DOORS, RESTROOMS, AND MAXIMUM OCCUPANCY LOADS FOR ASSEMBLY SPACES.

NOTE: INDICATES EXISTING AREAS NOT IN PROJECT DESIGN WORK SCOPE.

NOTE: FINAL CODE REVIEW ANALYSIS IN PROGRESS - NOT FOR CONSTRUCTION OR PERMIT.

H1 LIFE SAFETY PLAN - FIRST FLOOR

3/32" = 1'-0"

PROJECT NORTH / TRUE NORTH

GENERAL NOTES

A. REQUIRED SIGNAGE TO BE PROVIDED IN ALL ASSEMBLY ROOMS/SPACES WITH OCCUPANT LOADS GREATER THAN 50. REFER TO OCCUPANT LOAD TABLE FOR CALCULATED LOADS ON LIFE SAFETY PLANS. USE GREATER OF ACTUAL OR CALCULATED OCCUPANT LOADS FOR POSTED SIGNAGE.
B. CORRIDORS ARE USED FOR CIRCULATION PURPOSES ONLY. ANY PRE-FUNCTION PROGRAM OCCURS IN ROOMS WITH CALCULATED LOADS. CURRENT SPACE DESIGN IS DETERMINED BY CIRCULATION PATHS FROM ADJACENT ROOMS. WHEN ACCOUNTING FOR REQUIRED CORRIDOR WIDTHS IN THIS AREA, NO OCCUPIABLE SQUARE FOOTAGE AREA REMAINS.

LIFE SAFETY LEGEND

- EGRESS TRAVEL PATH: DISTANCE NOTED IS ACTUAL.
- Room name / 1 OCC — OCCUPANCY LOAD
- 150 SF — ROOM AREA
- OCC Type / SF per OCC — OCCUPANCY LOAD FACTOR AND METHOD
- OCCUPANCY GROUP
- EXIT DOOR: 35" / 233 — EXIT CAPACITY (DOOR EGRESS WIDTH / .20)
- 111 OCC — EGRESS WIDTH
- FBC 1005.3.2, LSC 7.3.3 — ANTICIPATED OCCUPANT LOAD
- EXIT STAIR: 48" / 240 — EXIT CAPACITY (STAIR EGRESS WIDTH / .30)
- 137 OCC — EGRESS WIDTH
- FBC 1005.3.1, LSC 7.3.3 — ANTICIPATED OCCUPANT LOAD
- 100 OCC — DIRECTION OF EGRESS
- ANTICIPATED OCCUPANT LOAD
- FEC — FIRE EXTINGUISHER CABINET WITH FIRE EXTINGUISHER
- DIRECTIONAL EXIT SIGN
- KB — KNOX BOX

PARTITION LEGEND

NOTES

- CONSTRUCT ALL WALLS AS LABELED ON FLOOR PLAN(S)
- SEE A-500 SERIES SHEETS FOR WALL TYPES.
- PARTITION TYPE SUFFIX NUMBER (#.1) TYPICALLY INDICATES BATT INSULATION REQ'D FOR SOUND.
- PARTITION TYPE SUFFIX NUMBER (#D) TYPICALLY INDICATES WALL EXTENDING TO DECK (SEE TOP OF WALL DETAIL LEGEND)

FLOOR PLAN GRAPHIC LEGEND OF INTERIOR WALLS

- PLAN GRAPHICS FOR VISUAL REFERENCE ONLY
- SEE WALL TYPES FOR COMPLETE WALL DESIGN

- NON-RATED PARTITION (TO CEILING)
- NON-RATED PARTITION (TO DECK, BATT)
- NON-RATED PARTITION (LOW WALL)
- NON-RATED PARTITION (BATT INSUL)
- RATED PARTITION (1 HR)
- RATED PARTITION (2 HRS)
- RATED PARTITION (3 HRS)
- RATED PARTITION (4 HRS)
- EXISTING PARTITION
- DEMOLISHED PARTITION

WALL PRIORITY

HIGHEST PRIORITY

LOWEST PRIORITY

WALL PRIORITY LEGEND

FOUR HOUR FIRE WALL.....PRIORITY 1 HIGHEST
TWO HOUR FIRE WALL.....PRIORITY 2
ONE HOUR FIRE WALL.....PRIORITY 3
NON-RATED WALL.....PRIORITY 4 LOWEST

FEC DETAILS

3'-6" CL OF HANDLE

FEC

NOTE: EXISTING FECs TO REMAIN IN NON-WORK AREAS (TYP.). PROJECT DESIGN TEAM TO VERIFY EXISTING LOCATIONS.

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SCHEDULE OF REVISIONS

DESIGN DEVELOPMENT

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PROJECT MANAGER: SLT
PROJECT TEAM: RSK, HWB

LIFE SAFETY PLAN - FIRST FLOOR

G-101

NOTICE:
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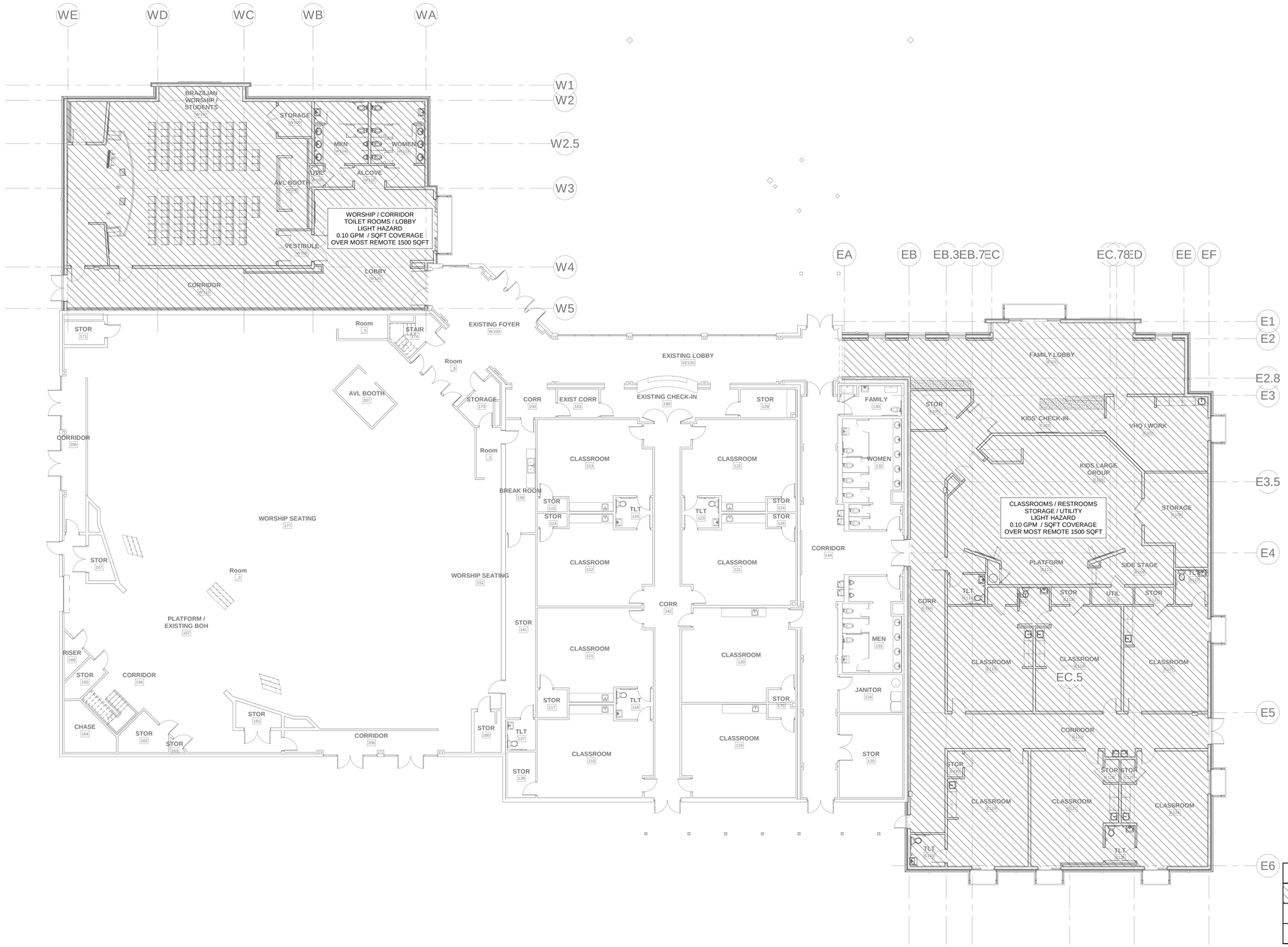

FIRE PROTECTION SPECIFICATION

1. THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AUTOMATIC SPRINKLER SYSTEM AS INDICATED ON THE FLOOR PLANS. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED. SEE NOTES BELOW FOR ADDITIONAL REQUIREMENTS. PROVIDE SUPPORTS AS REQUIRED BY NFPA 13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATIONS AND ELEVATIONS OF CEILINGS.
2. CONTRACTOR SHALL GUARANTEE INSTALLATION AGAINST DEFECTS IN WORKMANSHIP, EQUIPMENT AND MATERIAL FURNISHED ON PROJECT FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
3. SUBMIT FOR APPROVAL THE NUMBER OF SHOP DRAWINGS AND MANUFACTURER'S LITERATURE ON ALL MATERIALS AS REQUIRED TO THE ARCHITECT OR OWNER'S REPRESENTATIVE.
4. SUBMIT DRAWINGS AND CALCULATIONS TO THE STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
5. CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE PREMISES AT AND ADJACENT TO PROPOSED WORK. VERIFY PIPE SIZES, LOCATION OF EXISTING COMPONENTS, AND SUITABILITY OF THE EXISTING SYSTEMS TO MEET THE HYDRAULIC CALCULATIONS PRIOR TO BID.
6. DRAWINGS ARE DIAGRAMMATIC AND INTEND TO SHOW APPROXIMATE LOCATIONS. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND COORDINATE WITH OTHER TRADES FOR PIPE ROUTING AND EQUIPMENT PLACEMENT. INSTALL ALL WORK WITHOUT CONFLICT WITH OTHER TRADES AND MAKE MINOR ALTERATIONS AS REQUIRED WITHOUT ADDITIONAL COST TO OWNER.
7. THE SPRINKLER SYSTEM SHALL BE MODIFIED/UPGRADED BY A FIRE PROTECTION SPRINKLER SYSTEM CONTRACTOR WITH A VALID CERTIFICATE OF REGISTRATION ISSUED BY THE AUTHORITY HAVING JURISDICTION.
8. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR ALL VOLTAGES, ELECTRICAL LOADS, ETC. OF ELECTRICALLY OPERATED EQUIPMENT PRIOR TO PURCHASING EQUIPMENT. ALL EQUIPMENT SHALL BE U.L. AND NEMA APPROVED.
9. MAINTAIN A MINIMUM CLEARANCE OF 3'-0" IN FRONT OF ALL ELECTRICAL PANELS AND 1'-0" ON EITHER SIDE OF ELECTRICAL PANEL TO STRUCTURE. ALL PIPING SHALL BE ROUTED AROUND THIS AREA.
10. ALL HORIZONTAL AND VERTICAL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH NFPA 13 AND STATE AND LOCAL REQUIREMENTS. SUPPORTS SHALL SECURELY HOLD PIPING, PREVENT VIBRATION, COMPENSATE FOR STATIC AND OPERATIONAL CONDITIONS OF THE VARIOUS SYSTEMS, AND SHALL NOT BE SUBJECT TO ELECTROLYTIC ACTION.
11. ALL SPRINKLER SYSTEM MATERIALS INSTALLED SHALL BE U.L. LISTED AND FACTORY MUTUAL APPROVED FOR FIRE PROTECTION USE.
12. CONTROL VALVES SHALL BE SLOW CLOSING INDICATING VALVES LISTED FOR FIRE PROTECTION USE. EACH CONTROL SHALL HAVE A SUPERVISORY SWITCH.
13. SPRINKLER PIPING PENETRATING ONE-HOUR OR GREATER RATED FIRE WALLS SHALL BE SLEEVED AND CAULKED TO MEET U.L. LISTED ASSEMBLY FOR RATING OF WALL.
14. CONTRACTOR SHALL FLUSH WATER SYSTEM AFTER MODIFICATIONS PER REQUIREMENTS OF NFPA 24.
15. SPRINKLER HEADS SHALL BE RELIABLE, CENTRAL, VIKING OR EQUAL.
16. ALL SPRINKLER HEADS LOCATED IN A.C.T. CEILING SHALL BE CHROME PLATED SEMI-RECESSED PENDANT TYPE WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE AND CENTERED IN 2X2 CEILING TILE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED SPACES, CHASES, ETC. TO COMPLETELY CONCEAL ALL PIPING.
17. ALL SPRINKLER HEADS LOCATED IN GYPSUM CEILINGS SHALL BE CHROME PLATED CONCEALED PENDANT TYPE WITH TEMPERATURE RATINGS AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN IN FURRED IN SPACES, CHASES, ETC. TO COMPLETELY CONCEAL ALL PIPING. THE FINISH OF THE COVER PLATE SHALL BE WHITE.
18. ALL SPRINKLER HEADS IN AREAS WITHOUT FINISHED CEILINGS SHALL BE BRASS UPRIGHT HEADS WITH TEMPERATURE RATING AS CONDITIONS DICTATE. ASSOCIATED SPRINKLER PIPING SHALL BE RUN EXPOSED.
19. THE SPRINKLER CONTRACTOR SHALL COORDINATE THE LOCATION OF PIPING AND HEADS WITH LIGHT FIXTURES, DIFFUSERS, DUCTWORK, PLUMBING LINES, ETC. AND MAKE MINOR ADJUSTMENTS IN THE SPRINKLER LAYOUT WHERE REQUIRED OR DEEMED NECESSARY BY THE ARCHITECT.
20. THE SPRINKLER CONTRACTOR SHALL OBTAIN A RECENT FLOW TEST FROM THE LOCAL WATER AUTHORITY.
21. THE SPRINKLER CONTRACTOR MAY USE FLEXIBLE STEEL BRAIDED HOSE ASSEMBLY EQUAL TO FLEXHEAD INDUSTRIES (U.L. LISTED) IN LIEU OF HARD PIPE RETURN BENDS AT ALL LOCATIONS WITH CEILINGS. INSTALL FLEXIBLE STEEL BRAIDED HOSE ASSEMBLY IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
22. TWO PIECE EXTENDED ESCUTCHEONS USED TO EXTEND THE DISTANCE BETWEEN THE SPRINKLER HEAD DEFLECTOR PLATE AND THE CEILING SHALL NOT BE INSTALLED. NO EXCEPTIONS.

FIRE PROTECTION DESIGN CRITERIA

WORSHIP / OFFICE AREAS / CLASSROOMS / RESTROOMS / CORRIDORS

CLASSIFICATION	DENSITY	AREA OF COVERAGE	COVERAGE PER HEAD	DISCHARGE TEMPERATURE	MAXIMUM SPACING	HOSE STREAM ALLOWANCE
LIGHT HAZARD	0.10 GPM / SQ FT.	1500 SQ. FT.	225 SQ. FT.	165°F	15 FT.	100 GPM

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PROJECT DATE: 10/24/2019
PROJECT ENGINEER: KFM
PROJECT TEAM: LTB

FIRE PROTECTION NOTES & FLOOR PLAN

FP-101