GENERAL STRUCTURAL AND CONSTRUCTION NOTES

1.0 GENERAL

1. All work shall conform to the "2017 Florida Building Code" and to all other applicable Federal, State, and Local regulations.
2. In case of conflict between the General Notes and details, the most rigid requirements shall govern.
3. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
4. Job site safety and construction procedures are the sole responsibility of the Contractor.
5. All costs of investigation and/or redesign due to Contractor improper installation of structural elements or other items not in conformance with the Contract Documents shall be at the Contractor's expense.
6. The structural drawings shall be used in conjunction with the architectural and mechanical drawings. If there is a discrepancy between drawings, it is the Contractor's responsibility to notify the Architect prior to performing the work.
7. The Contractor shall verify all existing building information shown (dimensions, elevations, etc.) and notify the Architect/Engineer of any discrepancies prior to fabrication of any structural component.
8. The Contractor shall verify and/or establish all existing conditions and dimensions at the site. Failure to notify Architect/Engineer of unsatisfactory conditions constitutes acceptance of unsatisfactory conditions.
9. If the existing field conditions do not permit the installation of the work in accordance with the details shown, the Contractor shall notify the Architect/Engineer immediately and provide a sketch of the condition with his proposed modification of the details given on the Contract Documents. Do not commence work until condition is resolved and modification is approved by the Architect.
10. Where alterations involve the existing supporting structure, the Contractor shall provide shoring and protection required to ensure the structural integrity of the existing structure.
11. Shop drawings for all structural materials to be submitted to Architect for review prior to the start of fabrication or commencement of work. Review period shall be a minimum of two (2) weeks.
12. Reproduction of any portion of the Structural Contract Drawings for resubmittal as shop drawings is prohibited. Shop drawings produced in such a manner will be rejected and returned.
13. Shop drawings submitted for structural review shall consist of two (2) sets of prints and one (1) set of reproducibles. Only one (1) marked up set of reproducible with the Structural Engineer's comments will be returned to the Contractor.
14. Shop drawings shall bear the Contractor's stamp of approval which shall constitute certification that the Contractor has verified all construction criteria, materials, and similar data and has checked each drawing for completeness, coordination, and compliance with the Contract Documents.
15. The drawings have been produced entirely on The Engineers Cadd System. Any other lettering, lines or symbols, other than professional stamps and signatures, have been made without the authorization of The Engineers are invalid.
16. The structural drawings shall govern the work for all structural features, unless noted otherwise. The architectural drawings shall govern the work for all dimensions.
17. All materials shall be stored to protect them from exposure to the elements.

2.0 STRUCTURAL STEEL

1. Fabrication and erection of structural steel shall conform to the "Steel Construction Manual", Thirteenth Edition, 2005, American Institute of Steel Construction including Specifications for Structural Steel Buildings, Specification for Structural Joints Using ASTM A325 or A490 Bolts, and AISC Code of Standard Practice except Sections 4.2 and 7.9 which shall not be applicable to this project.
2. All welding shall be performed by certified welders and shall conform to "Structural Welding Code ANSI/AWS D1.1–92", American Welding Society.
3. Structural shapes & plates: ASTM A36, A572 or A992.
4. Steel tubing (square, rect. or round): ASTM A500, Grade B.
5. All bolted connections shall be with ASTM A325 high strength bolts ⅞" minimum diameter, unless noted otherwise.
6. Welding electrodes shall be E70XX for manual arc welding and F7X–EXXX for submerged arc welding. All welders shall be certified by the AWS. Minimum weld size shall be 3/16" unless noted otherwise.
7. Cuts, holes, coping, etc. required for other trades or field conditions shall be shown on the shop drawings and made in the shop. Cutting or burning of main structural members in the field will not be permitted.
8. Submit shop drawings for fabrication and erection of structural steel. Clearly indicate coordinated dimensions of mechanical unit and roof penetration sizes. Shop and Erection drawings must show all shop/floor and field welds. Initial shop drawing submittal shall include proposed connection details.
9. The General Contractor and Steel Erector shall notify the Structural Engineer of any fabrication or erection errors or deviations and receive written approval before any field corrections are made.
10. All steel shall be painted with shop standard primer unless noted otherwise.
11. Visually inspect all fillet welds.

3.0 DESIGN DATA

1. Governing Code: 2017 Florida Building Code
2. Snow Load: N/A
3. Wind Load: Basic Wind 136 MPH (Ultimate) N/A to interior walls. Interior pressure 5 PSF.
4. Earthquake Design Data:
   - A. Seismic Occupancy Category..... II
   - B. Seismic Importance Factor, I..... 1.0
   - C. Ss (Mapped Spectral Response Acc. at Short Period)..... 0.062
   - D. S1 (Mapped Spectral Response Acc. at 1 Second Period)..... 0.033
   - E. Seismic Site Classification..... (Assumed)
   - F. Sds (Spectral Response Coefficient)..... 0.033
   - G. Sd1 (Spectral Response Coefficient)..... 0.018
   - H. Seismic Design Category..... A
5. Special Loads:
   - A. New Bulkhead:
     1. Interior Non-Load Bearing Construction
        - i. Framing..... 3 PSF
        - ii. Gypsum Board..... 4 PSF
        - iii. Misc..... 3 PSF
        - Total..... 10 PSF

TYPICAL ABBREVIATIONS

NOTES:

1. ALL ABBREVIATIONS MAY NOT BE USED.
2. THESE ABBREVIATIONS APPLY TO STRUCTURAL DWGS ONLY. SEE ARCH & MEP DWGS FOR SEPARATE SYMBOLS AND ABBREVIATIONS LISTS.

@	AT
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADH	ADHESIVE
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATELY
AR	ANCHOR ROD
ARCH	ARCHITECT
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
AWS	AMERICAN WELDING SOCIETY
BCX	BOTTOM CHORD EXTENSION
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOCA	BUILDING OFFICIALS & CODE ADMINISTRATORS
BOT	BOTTOM
BPL	BEARING PLATE/BASE PLATE
BT	BENT
CANT	CANTILEVER
CJ	CONTROL JOINT
CJT	CONSTRUCTION JOINT
℄	CENTER LINE
CLR	CLEAR/CLEARANCE
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT(S)
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CR	CRACK
CSK/S	COUNTERSUNK SCREW
CTRD	CENTERED
d(penny)	NAILS
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DEMO	DEMOLITION
DET	DETAIL
DEG	DEGREE
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DL	DEAD LOAD
DN	DOWN
DWG	DRAWING(S)
DWLS	DOWELS
EA	EACH
EF	EACH FACE
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH
FLG	FLASHING
FLR	FLOOR
FO	FACE OF
FRMG	FRAMING
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE, GAGE
GALV	GALVANIZE
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLUM	GLUED LAMINATED
GR	GRADE
GYP	GYPSUM
H&V	HORIZONTAL AND VERTICAL
HEF	HORIZONTAL EACH FACE
HI	HIGH
HIF	HORIZONTAL INSIDE FACE
HK	HOOK
HOF	HORIZONTAL OUTSIDE FACE
HORIZ	HORIZONTAL
HP	HIGH POINT
HNGR	HANGER
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
I/F	INSIDE FACE
INCL	INCLUSIVE
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS
KB	KNEE BRACE
L	LONG; LENGTH
LAM	LAMINATED
LAT	LATERAL
LF	LINEAR FOOT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
LP	LOW POINT
LS	LAG SCREW
LT	LIGHT
LTL	LINTEL
LTW	LIGHTWEIGHT
LWB	LONG WAY BOTTOM
LWC	LIGHTWEIGHT CONCRETE
LWT	LONG WAY TOP
MAS	MASONRY
MAX	MAXIMUM
MBR	MEMBER
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
#	NUMBER
NIC	NOT IN CONTRACT
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
O/F	OUTSIDE FACE
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PA	POWER ACTUATED FASTENER
PART	PARTITION
PC	PIECE
PCC	RECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEN	PENETRATION
PFB	PREFABRICATE(D)
PL	PLATE
PLAS	PLASTER
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PRESS	PRESSURE
PROJ	PROJECT; PROJECTED; PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PTD	PRESSURE TREATED
R	RADIUS
RC	REINFORCED CONCRETE
RD	ROOF DRAIN
RECT	RECTANGULAR
REF	REFER(ENCE)
REINF	REINFORCING
REQD	REQUIRED
REV	REVISE; REVISION
RF	ROOF
RFTR	RAFTER
SC	SLIP CRITICAL
SCH	SCHEDULE
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
SEIS	SEISMIC
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLOPE
SNT	SEALANT
SOG	SLAB ON GRADE
SP	SPIRAL
SPCG	SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SSPC	STEEL STRUCTURES PAINTING COUNCIL
SS	STAINLESS STEEL
STD	STANDARD
STGR	STAGGER
STIFF	STIFFENER
STIRR	STIRRUP
STL	STEEL
STRUCT	STRUCTURAL
SWB	SHORT WAY BOTTOM
SWT	SHORT WAY TOP
SYM	SYMMETRICAL
T	TOP
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TCX	TOP CHORD EXTENSION
TEMP	TEMPORARY
THK	THICK
THRU	THROUGH
TOS	TOP OF STEEL
T/SL	TOP OF SLAB
TU	TILTUP
T/W	TOP OF WALL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
VEF	VERTICAL EACH FACE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VSC	VERTICAL SLOTTED CONNECTION
W	WIDTH; WIDE
W	WIDTH
WD	WOOD
WF	WIDE FLANGE
W/O	WITHOUT
WPRF	WATERPROOF
WP	WORKING POINT
WS	WATERSTOP
WT	WEIGHT
WWR	WELDED WIRE REINFORCING

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GENERAL STRUCTURAL AND CONSTRUCTION NOTES & TYPICAL ABBREVIATIONS

S.001

GRAPHIC SCALE