

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA

- D1 ALL WORK SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE FLORIDA BUILDING CODE, 2023 EIGHTH EDITION.
- D2 DESIGN LOADS PER FLORIDA BLDG. CODE, SEE SHEET S2.1 FOR ROOF DESIGN LOADS. WIND DESIGN PER ASCE 7-22 V(wt.)=170 MPH V(ASD)=132 MPH RISK CATEGORY= III EXPOSURE C ENCLOSED BUILDING MAIN BUILDING DESIGN: qh(wt.)=65.8 PSF qh(al.)=39.4 PSF o=6'-3" h=17'-0"
- D3 FOUNDATION DESIGN VALUES: 2500 PSF BASED ON SOIL REPORT PERFORMED BY: WHITESTONE DATED FEBRUARY 14, 2025
- D4 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE LATEST EDITION.

GENERAL

- G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS, AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.
- G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED, SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- G6 NO PAPER SHOP DRAWINGS WILL BE REVIEWED BY THIS OFFICE. ALL SUBMITTALS MUST BE IN ELECTRONIC FORM. SIGNED AND SEALED PAPER SHOP DRAWINGS WILL BE STAMPED BY THIS OFFICE AFTER ALL COMMENTS HAVE BEEN INCORPORATED INTO THE DRAWINGS AND CALCULATIONS.

SLAB ON GRADE

- S1 UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT REFERENCED ABOVE, COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD CONTROLLED BY REPRESENTATIVE TECHNICIAN OF QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 8" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.
- S2 MINIMUM PLACEMENT OF CONTROL JOINTS FOR FUTURE SLAB ON GRADE SHALL BE AS SET IN THE TABLE BELOW. JOINTS OCCUR IN EACH DIRECTION.

SLAB THK IN.	COLUMN SPACING (FT.)			
	15' OR LESS	15'-1" TO 32'-0"	32'-1" TO 48'-0"	48'-1" TO 60'-0"
4"	AT COL. GRID & 1/2 WAY BTWN (2 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)	AT COL. GRID & 1/4 POINTS (4 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)
5"	AT COL. GRID & 1/2 WAY BTWN (2 EQ)	AT COL. GRID & 1/2 WAY BTWN (2 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)
6"	AT COL. GRID & 1/2 WAY BTWN (2 EQ)	AT COL. GRID & 1/2 WAY BTWN (2 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)	AT COL. GRID & 1/3 POINTS (3 EQ)

CONCRETE AND REINFORCING

- C1 CONCRETE WORK SHALL CONFORM TO ACI CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-19)
- C2 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH & PROPERTIES AS FOLLOWS:

	CONCRETE BEAMS, COLS	4000 PSI	541"	0.52
SLAB ON GRADE	4000 PSI	541"	0.52	
FOUNDATIONS	3000 PSI	641"	0.58	
FILLED CELLS	3000 PSI	941"	0.60	
- C3 CONCRETE MIX DESIGN SUBMITTALS MUST INCLUDE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (e.g. FOUNDATIONS, SLAB-ON-GRADE, FILLED CELLS, COLUMNS, etc.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
- C4 REBARS SHALL CONFORM TO ASTM-A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- C5 MINIMUM COVER FOR REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

	FOOTINGS	1 1/2" FROM TOP
BEAMS ON GRADE	1 1/2" (ON TIES)	
COLUMNS	1 1/2" (ON TIES)	
- C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED.

	WELDED WIRE FABRIC	36 DIA. (12" MIN)
MINIMUM REQUIREMENTS		
- C7 REINFORCING IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED PER CLASS B SPLICE SCHEDULE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE TYPICAL DETAILS)
- C8 TERMINATE ALL DISCONTINUED ELEVATED SLAB TOP BARS WITH A 180 DEGREE STANDARD HOOK UNLESS OTHERWISE NOTED.
- C9 CONTINUOUS TOP BARS SHALL BE SPLICED AT MIDSPAN. CONTINUOUS BOTTOM BARS SHALL BE SPLICED AT CENTER-LINE OF SUPPORTS (OR AS SHOWN ON TYPICAL DETAILS).
- C10 AT CHANGES IN DIRECTION OF CONCRETE WALLS AND STRIP FOOTINGS, PROVIDE CORNER BARS AT SAME SIZE AND SPACING AS HORIZONTAL BARS. (REFER TO B/5.4.0)

MASONRY

- M1 MASONRY CONSTRUCTION SHALL CONFORM TO ACI STANDARD BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES TMS 402-16 AND SPECIFICATIONS FOR MASONRY STRUCTURES TMS 602-16
- M2 CONCRETE BLOCKS SHALL CONFORM TO ASTM C-90. f'm = 2000 PSI
- M3 MORTAR SHALL COMPLY WITH ASTM C270, TYPE M OR S. (COMPRESSIVE STRENGTH 1800 PSI). RESPECTIVELY, SITE TESTED MORTAR CUBES SHALL ACHIEVE A MINIMUM OF 80% OF THE DESIGN COMPRESSIVE STRENGTH)
- M4 BLOCK SHALL NOT BE MOISTENED BEFORE GROUTING.
- M5 ALL MASONRY CROSS WEBS SHALL BE FULLY BEDDED IN MORTAR AROUND CELLS TO BE GROUTED.
- M6 THE MINIMUM CONTINUOUS UNOBTRESSED CELL AREA IN CELL TO RECEIVE GROUT MUST BE NOT LESS THAN 2"x3". MORTAR FINIS MUST BE REMOVED AS BLOCK PLACEMENT PROCEEDS. MORTAR DROPPINGS MUST BE KEPT OUT OF CELLS WHICH ARE TO BE GROUTED.
- M7 REINFORCE WALLS WITH LADDER TYPE (ASTM A-82, #8 GAGE WIRE) REINFORCEMENT EQUAL TO DURO-WALL IN BED JOINTS AT 16" OC UNO, MEASURED VERTICALLY PLACE PER MFR INSTR. LAP ALL HORIZONTAL JOINT REINFORCING 8", MIN. EXTEND HORIZONTAL REINFORCEMENT 4 INCHES INTO CONC. COLS. OR THE COLS.

- M8 WHERE SHOWN, CELLS OF BLOCK MASONRY SHALL BE FILLED WITH GROUT WITH MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, AND MEET ASTM C476. GROUT SHALL BE PROVIDED BY CONCRETE SUPPLIER FROM THEIR BATCH PLANT WITH A SLUMP OF 8" TO 10". JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. TESTING SHALL CONFORM TO ASTM C1019.
- M9 GROUT FOR FILLED CELLS SHALL BE POURED OR PUMPED IN LIFTS NOT TO EXCEED FOUR (4) FEET IN HEIGHT, AND A MAX POUR OF 12 FT. FILLED CELLS SHALL BE CONSOLIDATED AT TIME OF POURING BY RODDING OR VIBRATING BETWEEN LIFTS.
- M10 PROVIDE KNOCK-OUT CURM AT BASE OF EACH FILLED CELL TO ALLOW VISUAL VERIFICATION OF COMPLETE GROUT PENETRATION (FOR LIFTS OF 5'-0" OR LESS, A KNOCK-OUT AT BASE OF LIFT WILL NOT BE REQUIRED).
- M11 VERTICAL REINFORCING MUST HAVE A MINIMUM CLEARANCE OF 1/2" TO INSIDE FACE. MIN VERTICAL BAR LAP = 48" BAR DIAMETER. VERTICAL REINFORCING IN WALLS SHALL BE SECURED AND LATERALLY SUPPORTED AGAINST DISPLACEMENT AT INTERVALS NOT EXCEEDING 192 x BAR DIAMETER NOR 10 FT.
- M12 GROUT PLACEMENT STOPPED FOR (1) HOUR OR MORE SHOULD BE STAGGED (1 1/2") BELOW THE TOP OF THE MASONRY UNIT TO PROVIDE A KEY FOR SUBSEQUENT GROUTING.
- M13 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M14 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M15 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M16 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M17 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M18 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M19 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

- M23 SEE FOUNDATION PLANS FOR ALL VERT REINFORCING. TYP VERTICAL REINFORCING SIZE & SPACING SHALL BE ABOVE AND BELOW ALL WALL OPENINGS.
- M24 TEMPORARY BRACING AND SHORING OF WALLS TO PROVIDE STABILITY DURING CONSTRUCTION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- M25 MASONRY CONSTRUCTION MATERIALS AND INSPECTIONS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI-ASCE 530.1)" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE DOCUMENTS.
- M26 PROVIDE FILLED PRECAST U-LINTELS WITH (1) #5 CONT AT ALL OPENINGS WHERE CONCRETE BEAMS ARE NOT SHOWN OR NOTED. MINIMUM UNFILLED LINTEL CAPACITY = 400 LB/LF FOR SPAN INDICATED.
- M27 STOPPING AND RESUMING WORK: RACK BACK 1/2-UNIT LENGTH IN EACH COURSE. DO NOT TOOTH. CLEAN EXPOSED SURFACES OF SET MASONRY WET UNITS LIGHTLY (IF REQ'D) AND REMOVE LOOSE MAS UNITS AND MORTAR PRIOR TO LAYING FRESH MASONRY.
- M28 REINFORCE MASONRY OPENINGS GREATER THAN 1'-0" WIDE, WITH HORIZ JT REINF PLACED IN (2) HORIZ JT'S APPROXIMATELY 8" APART, IMMEDIATELY ABOVE THE LINTEL AND IMMEDIATELY BELOW THE SILL. EXTEND REINFORCING A MINIMUM OF 2'-0" BEYOND JAMBS OF THE OPENING EXCEPT AT CONTROL JOINTS. SEE PLAN FOR ADDITIONAL REQUIREMENTS.
- M29 DO NOT APPLY UNIFORM LOADS TO MASONRY WALLS FOR (3) DAYS.
- M20 DO NOT APPLY CONCENTRATED LOADS TO MASONRY WALLS FOR (7) DAYS.
- M21 EXTEND ALL VERTICAL WALL REINFORCEMENT TO WITHIN 2" OF TOP OF WALL OR BEAM UNLESS NOTED OTHERWISE. TERMINATE REINFORCING WITH STANDARD ACI HOOK.
- M22 MASONRY CONTROL JOINT DETAIL

STEEL JOISTS

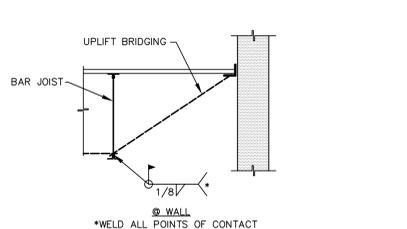
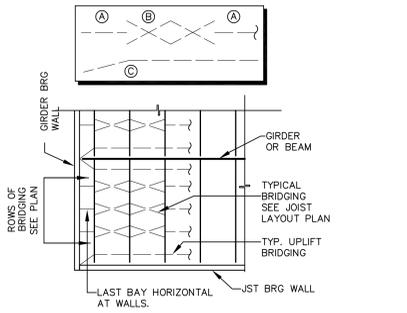
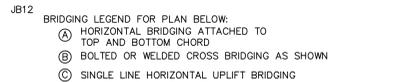
- SJ1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
- SJ2 ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND BRIDGING SHALL BE IN STRICT ACCORDANCE WITH THE CURRENT SPECIFICATIONS OF STEEL JOIST INSTITUTE AND RECOMMENDED CODE OF STANDARD PRACTICE.
- SJ3 THE ENDS OF ALL BRIDGING LINES TERMINATING AT WALLS OR BEAMS SHALL BE ANCHORED TO THE WALL OR BEAM.
- SJ4 ALL STEEL JOISTS ARE TO BE CAMBERED AS SPECIFIED BY S.J.
- SJ5 PROVIDE BOTTOM AND/OR TOP CHORD EXTENSIONS AS SHOWN ON DRAWINGS.
- SJ6 UNLESS NOTED OTHERWISE, MINIMUM JOIST BEARING SHALL BE 2 1/2" ON A STEEL MEMBER OR EMBED PLATE.
- SJ7 BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE SIZE AND SPACING REQUIREMENTS OF THE SJ STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. THE LAST TWO JOIST SPACES IN A LINE OF BRIDGING SHALL BE "X" TYPE. ALL JOISTS 40'-0" OR LONGER REQUIRE A ROW OF BOLTED BRIDGING TO BE IN PLACE BEFORE SLACKENING OF HOISTING LINES. OTHER JOISTS REQUIRE SIMILAR BRIDGING CONSULT LATEST SJ SPECIFICATIONS.
- SJ8 ALL HANGERS TO SUPPORT MECHANICAL EQUIPMENT, ETC. TO BE SUPPORTED BY THE BOTTOM CHORD OF JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF HANGERS MUST BE LOCATED BETWEEN PANEL POINTS, PROVIDE JOIST STIFFENERS L1 1/2 x 1 1/2 x 3/16 JOIST STIFFENERS MUST BE INSTALLED FROM HANGER TO OPPOSITE CHORD PANEL POINT BEFORE LOAD IS APPLIED.
- SJ9 CONTRACTOR TO FURNISH BAR JOIST CERTIFICATIONS SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION.
- SJ10 FOR NET UPLIFT SEE NET UPLIFT PLAN ON SHEET S1.1 PROVIDE UPLIFT BRIDGING.
- SJ11 ALL SPRINKLER AND ROOF DRAIN PIPES MUST BE SUPPORTED NO FURTHER THAN 3" FROM THE JOIST TOP CHORD PANEL POINTS. THIS WILL BE STRICTLY ENFORCED. WHEN PIPES ARE PERPENDICULAR TO JOISTS, HANGERS SHALL BE PROVIDED EVERY OTHER JOIST (APPROX 10'-0" OC). WHEN PIPES ARE PARALLEL TO JOISTS, TWO CASES EXIST. FIRST, PIPES THAT ARE 4" AND LESS MAY BE SUPPORTED BY A SINGLE JOIST WITH HANGERS NOT TO EXCEED 10'-0" OC. SECOND, PIPES THAT ARE LARGER THAN 4" MUST BE CENTERED BETWEEN TWO JOISTS AND SUPPORTED FROM L4x4x5/16 ANGLE BEARING ON JOIST TOP CHORD PANEL POINTS WITH SPACING NOT TO EXCEED 10'-0" OC. GENERAL CONTRACTOR SHALL COORDINATE THESE REQUIREMENTS WITH THE APPROPRIATE TRADES.
- SJ12 ALL ITEMS SUSPENDED FROM JOISTS (i.e. CATWALKS, BALCONIES, OPERABLE PARTITIONS, etc...) SHALL BE INSTALLED AFTER DEAD LOAD HAS BEEN APPLIED.

JOIST BRIDGING NOTES:

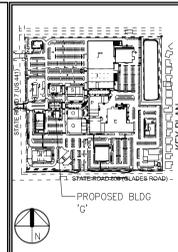
- JB1 BRIDGING STANDARD WITH THE MANUFACTURER AND COMPLYING WITH THE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES & WEIGHT TABLES OF THE LATEST ADOPTION SHALL BE USED FOR BRIDGING ALL JOISTS FURNISHED BY THE MANUFACTURER. POSITIVE ANCHORAGE SHALL BE PROVIDED AT THE ENDS OF EACH BRIDGING ROW AT BOTH TOP AND BOTTOM CHORDS.
- JB2 FOR "K" AND "LH" SERIES JOISTS HORIZONTAL BRIDGING IS RECOMMENDED FOR SPANS UP TO AND INCLUDING 60 FEET EXCEPT WHERE THE STEEL JOIST INSTITUTE STANDARD SPEC LOAD TABLES & WEIGHT TABLES WIRE BOLTED DIAGONAL BRIDGING FOR ERECTION STABILITY.
- JB3 "LH" AND "DLH" SERIES JOISTS EXCEEDING 60 FEET IN LENGTH SHALL HAVE BOLTED DIAGONAL BRIDGING FOR ALL ROWS.
- JB4 REFER TO SJ SECTION 6 IN THE "K" SERIES SPECIFICATIONS AND SECTION 105 IN THE "LH" AND "DLH" SERIES SPECIFICATIONS FOR ERECTION STABILITY REQUIREMENTS.
- JB5 REFER TO APPENDIX E FOR OSHA STEEL JOIST ERECTION STABILITY REQUIREMENTS.
- JB6 HORIZONTAL BRIDGING SHALL CONSIST OF CONTINUOUS HORIZONTAL STEEL MEMBERS. THE 1/4" RATIO FOR HORIZONTAL BRIDGING SHALL NOT EXCEED 300.
- JB7 DIAGONAL CROSS BRIDGING CONSISTING OF ANGLES OR OTHER SHAPES CONNECTED TO THE TOP AND BOTTOM CHORDS, OF "K", "LH", AND "DLH" SERIES JOISTS SHALL BE USED WHEN REQUIRED BY THE APPLICABLE STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLES OF LATEST ADOPTION.
- JB8 DIAGONAL BRIDGING, WHEN USED, SHALL HAVE AN 1/4" RATIO < 200.

JOIST BRIDGING NOTES CONTINUED:

- JB9 WHEN BOLTED DIAGONAL ERECTION BRIDGING IS REQUIRED, THE FOLLOWING SHALL APPLY:
 - THE BRIDGING SHALL BE INDICATED ON THE JOIST LAYOUT PLAN
 - THE JOIST LAYOUT PLAN SHALL BE THE EXCLUSIVE INDICATOR FOR THE PROPER PLACEMENT OF THIS BRIDGING.
 - SHOP INSTALLED BRIDGING CLIPS, OR FUNCTIONAL EQUIVALENT SHALL BE PROVIDED WHERE THE BRIDGING BOLTS TO THE STEEL JOISTS.
 - WHEN TWO PIECES OF BRIDGING ARE ATTACHED TO THE STEEL JOIST BY A COMMON BOLT, THE NUT THAT SECURES THE FIRST PIECE OF BRIDGING SHALL NOT BE REMOVED FROM THE BOLT FOR THE ATTACHMENT OF THE SECOND PIECE.
 - ERIDGING ATTACHMENTS SHALL NOT PROTRUDE ABOVE THE TOP CHORD OF THE STEEL JOISTS.
- JB10 PROVIDE UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINT EACH END OF JOIST. REFER TO SECTION A/S1.1 FOR UPLIFT BRIDGING CONNECTION DETAILS.
- JB11 DO NOT WELD BRIDGING TO JOIST WEB MEMBERS. DO NOT HANG ANY MECHANICAL, ELECTRICAL, PLUMBING, ETC FROM BRIDGING.
- JB12 BRIDGING LEGEND FOR PLAN BELOW:
 - HORIZONTAL BRIDGING ATTACHED TO TOP AND BOTTOM CHORD
 - BOLTED OR WELDED CROSS BRIDGING AS SHOWN
 - SINGLE LINE HORIZONTAL UPLIFT BRIDGING



BRIDGING DETAILS AND PLAN</



MARK	DESCRIPTION	DATE

WVA ARCHITECTURE, LLC
ARCHITECTURE / PLANNING

170 West Hibiscus Blvd, Suite 308
Fort Lauderdale, Florida 33301
Tel: 954-758-4111 Fax: 954-348-3442
F: 954-758-2528

ARCHITECT

FORGE D. NOVOLO
LICENSE
NO. 75364
STATE OF FLORIDA
PROFESSIONAL ENGINEER

CONSULTANT

JOHNSON GROUP
STRUCTURAL

GROUP P.C. #0008953
2000 N. WINDY PT. #2000
100 WEST CHAMPLAIN AVE. SUITE 1000
FORT LAUDERDALE, FL 33304
(954) 952-4949 (770) 952-8999
FAX: (954) 952-4949
www.johngroup.com

SHADOWWOOD (EDENS), LLC
500 E. Broward Blvd.
Suite #1620
Fort Lauderdale, Florida 33301
Ph: 954-670-8990
Fax: 954-670-8991

OWNER REPRESENTATION

SHADOWWOOD SQUARE BUILDING 'G' SHELL DRAWINGS

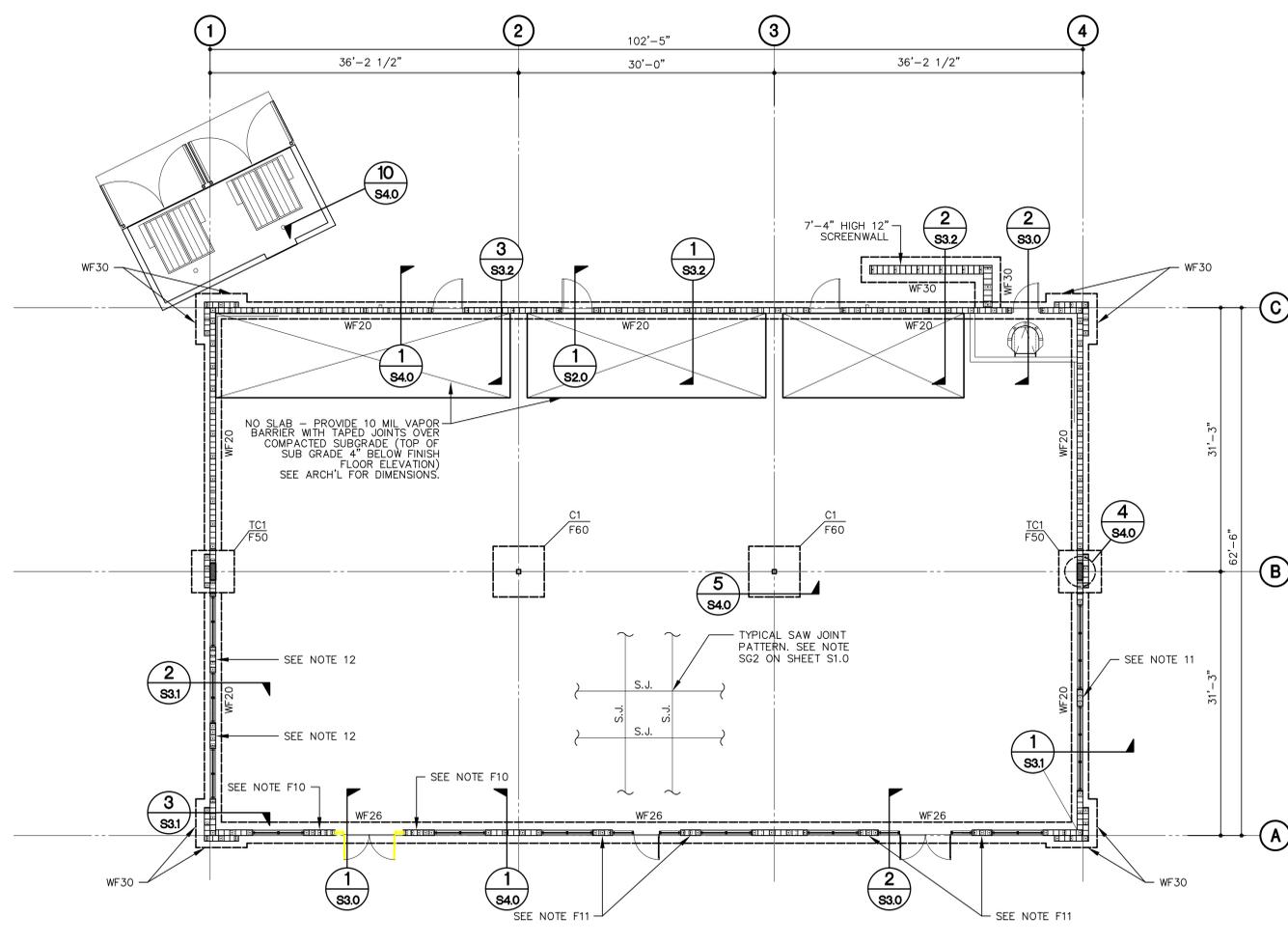
Palm Beach County, Florida

BUILDING

FOUNDATION PLAN, NOTES SCHEDULES

JOB NUMBER: JSG 25014
SCALE: 1/8"=1'-0"
PERMIT DATE:
ISSUE DATE: 05/02/25
BID DATE:

DESIGNED BY: S.G.
CHECKED BY: J.N./MJ
DISCIPLINE: STRUCTURAL
PLAN TYPE:
SHEET NUMBER: **S2.0**



FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

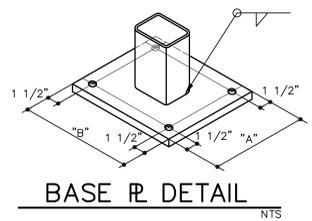
- F1. FLOOR SLAB: SLAB SHALL BE 4" THICK CONCRETE REINF W/6x6 W2.1xW2.1 WWF OVER 15 MIL VAPOR BARRIER ON COMPACTED TERMITES TREATED SUBGRADE. (SEE A/S4.0 SLAB ON GRADE DETAILS FOR PLACEMENT OF REINFORCEMENT)
- F2. T/ SLAB EL. = +0'-0", UNO (REFERENCE ONLY) SEE CIVIL FOR ACTUAL ELEVATION
- F3. T/ WALL FTG. EL. = -1'-4", UNO ON PLAN
- F4. T/ STL COL. EL. = -2'-0", TYP UNO.
- F5. ALL FTGS. ARE CENTERED BENEATH BRG WALLS AND COLS, TYP UNO.
- F6. SEE SHT. S1.0 FOR GENERAL NOTES.
- F7. SIDEWALK SLAB = 4" CONCRETE SLAB ON COMPACTED FILL REINFORCED WITH 6x6 W1.4xW1.4 W.W.F., TYP.
- F8. (2) #4x4'-0" LONG @ 3" O.C. PLACED 2" CLEAR FROM CORNER CENTERED IN SLAB, TYP. AT RE-ENTRANT CORNERS.
- F9. [Symbol] DENOTES #6 IN 8" GROUT FILLED CELLS. FILL CELLS AT WALL ENDS, CORNERS, AND AT 32" O.C. MAXIMUM SPACING BELOW AND ABOVE ROOF BEAMS AND SILLS U.N.O. SHOWN ON PLAN.
- F10. [Symbol] DENOTES PILASTER W/(5) FILLED CELLS REINF. W/(1)#7 VERT. BARS AT EA. CELL.
- F11. [Symbol] DENOTES PILASTER W/(3) FILLED CELLS REINF. W/(1)#7 VERT. BARS AT EA. CELL.
- F12. [Symbol] DENOTES PILASTER W/(4) FILLED CELLS REINF. W/(1)#7 VERT. BARS AT EA. CELL.

COLUMN / BASE PLATE SCHEDULE

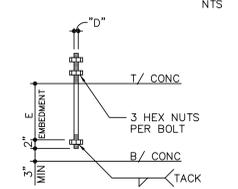
COLUMN MARK	COLUMN SIZE	BASE PLATE			ANCHOR BOLT		CAP PLATE	REMARKS
		A	B	T	E	D		
C1	HSS 6x6x1/4"	12"	12"	3/4"	6"	3/4"	1"	

BOLT TYPE, TYPE MATERIAL	MINIMUM EMBEDDED LENGTH	MINIMUM EMBEDDED EDGE DISTANCE
GRADE 36	12d	5d > 4 in.
GRADE 55, 105	17d	7d > 4 in.

NOTE: ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 36 (UNO) THREADED EACH END WITH NUT AT BOTTOM, TACK WELDED SECURE. PLATE WASHER AT BOTTOM NUT SHALL NOT BE REQUIRED. CONFORM TO CHART @ RIGHT FOR EMBEDMENT, UNLESS NOTED OTHERWISE IN SCHEDULE ABOVE.

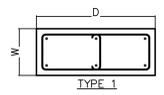


BASE PL. DETAIL



CONCRETE TIE-COLUMN SCHEDULE

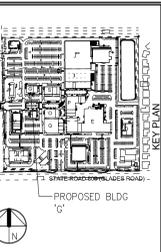
MARK	TYPE	SIZE (W X D)	VERTICALS	#3 TIES U.O.N.	REMARKS
TC1	1	8x24	(6) #6	@ 8" O.C.	



FOUNDATION SCHEDULE

MARK	SIZE (L x W x D)	REINFORCING		REMARKS
		LONGITUDINAL	TRANSV.	
F50	5'-0"x5'-0"x1'-0"	(6) #5 BOTT.	(6) #5 BOTT.	PAD FTG.
F60	6'-0"x6'-0"x1'-6"	(7) #6 BOTT.	(7) #6 BOTT.	PAD FTG.
WF20	CONT. x2'-0"x1'-0"	(3) #5 BOTT.	#5/14 BOTT.	WALL FTG.
WF26	CONT. x2'-6"x1'-0"	(3) #5 BOTT.	#5/14 BOTT.	WALL FTG.
WF30	CONT. x3'-0"x1'-0"	(4) #5 BOTT.	#5/14 BOTT.	WALL FTG.

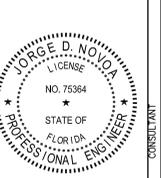
DESIGN INFORMATION:
NET ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF



MARK	DESCRIPTION	DATE

WVA ARCHITECTURE, LLC
ARCHITECTURE / PLANNING

170 West Hibiscus Blvd, Suite 308
Fort Lauderdale, Florida 33304
P: 954-752-5258
F: 954-752-5258



JOHNSON GROUP
STRUCTURAL

1200 S. WINDY Pk. #200
100 West Orange Ave. Suite 1000
Orlando, FL 32816
P: 407-852-4500
F: 407-852-4501
www.johnsongroup.com

SHADOWWOOD (EDENS), LLC
500 E. Broward Blvd.
Suite #1620
Fort Lauderdale, Florida 33301
Ph: 954-670-8990
Fax: 954-670-8991

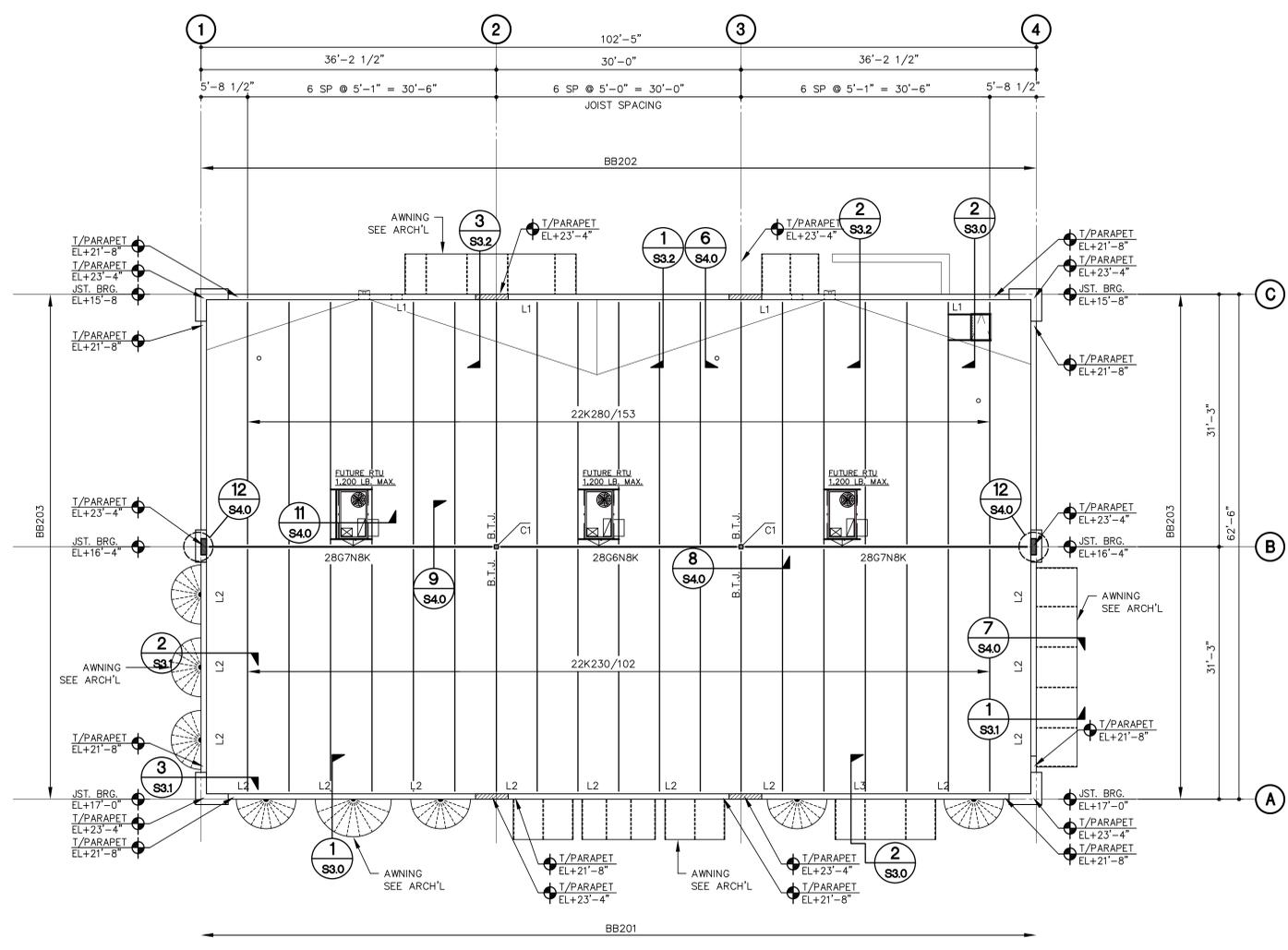
SHADOWWOOD SQUARE BUILDING 'G' SHELL DRAWINGS

Palm Beach County, Florida

ROOF FRAMING PLAN, NOTES SCHEDULES

JOB NUMBER: JSG 25014
SCALE: 1/8"=1'-0"
PERMIT DATE:
ISSUE DATE: 05/02/25
JOB DATE:

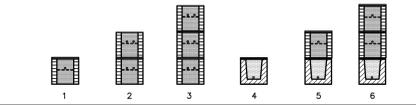
DESIGNED BY: S.G.
CHECKED BY: J.N./M.J.
DISCIPLINE: STRUCTURAL
PLAN TYPE:
SHEET NUMBER: **S21**



ROOF FRAMING PLAN

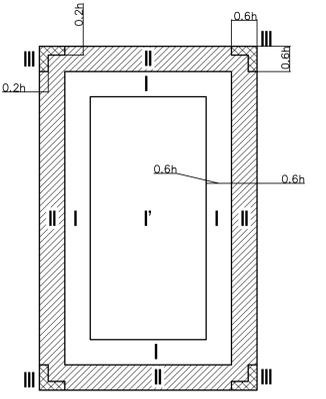
SCALE: 1/8"=1'-0"

CONCRETE TIE AND BOND BEAM SCHEDULE									
MARK	TYPE	T/B ELEV.	NOMINAL SIZE (W x D)	REINFORCING				STIRRUPS	COMMENTS
				BOTTOM	TOP	MIDDLE	OTHER		
BB201	2	+17'-0"	8x16	(2)#5	(2)#5				
BB202	2	+15'-8"	8x16	(2)#5	(2)#5				
BB203	3	+17'-4"	8x24	(2)#5	(2)#5	(2)#5			
BB301	1	+21'-8"	8x8			(1)#7			
BB302	1	+23'-4"	8x8			(1)#7			
L1	1	VARIES	8F8-1B						CAST-CRETE LINTEL
L2	2	VARIES	8F16-1B						CAST-CRETE LINTEL
L3	3	VARIES	8F24-1B						CAST-CRETE LINTEL



NOTE:
"SB" = BOND BEAM (COMPOSED OF KNOCK-OUT BLOCK)
"TB" = TIE BEAM (FORMED & POURED)
"CB" = CONCRETE BEAM, FORMED, POURED AND SHORED.

T/B ELEVATION PER SCHEDULE UNLESS NOTED THUS () ON PLAN



ROOF UPLIFT PLAN

0.6h = 10'-3"
0.2h = 3'-6"

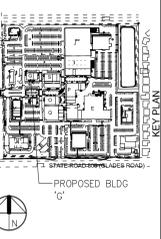
SERVICE ASD ROOF UPLIFT PLAN			
ZONE	ROOFING	JOISTS 175SF	GIRDERS
I	-29.2 PSF	-30.3 PSF	-11.2 PSF
II	-50.8 PSF	-45.8 PSF	-14.6 PSF
III	-67.2 PSF	-61.0 PSF	-26.1 PSF
IV	-67.2 PSF	-61.0 PSF	-31.8 PSF

* JOISTS AND GIRDER UPLIFT SHOWN IS GROSS UPLIFT. FOR JOISTS WITH SPANS EQUAL TO OR GREATER THAN 46 FEET, AN UPWARD OR DOWNWARD WIND PRESSURE OF 16PSF DOES NOT NEED TO BE CONSIDERED IN THE DESIGN COMBINATIONS AS THE TRIBUTARY AREA IS GREATER THAN 700 SF. (ASCE-7 SECT. 30.2.3)

ROOF FRAMING NOTES:

- ROOF ASSEMBLY TO BE TPO ROOFING WITH INSULATION OVER 1.5", 22GA TYPE "B" GALV. G90 METAL ROOF DECK CONTINUOUS OVER 3 OR MORE SPANS. ATTACH DECK TO ALL SUPPORTS WITH 5/8" Puddle WELDS ON SDI 36/7 WELD PATTERN. ATTACH DECK AT PERIMETER W/ 5/8" Puddle WELDS @ 6" O.C. USE (7) #10 TEK SIDELAP FASTENERS.
- TOP OF PARAPET EL. SEE PLAN
- SEE STRUCTURAL NOTE SHEET (S1.0) FOR BRIDGING REQUIREMENTS FOR JOIST & JOIST GIRDERS.
- SEE SECTIONS FOR FRAMING DETAILS.
- PROVIDE SPECIAL JOISTS AND AC FRAMING (SEE DETAIL 11/S4.3) AT ALL ROOF TOP A/C UNITS. REFER TO MECHANICAL HVAC PLAN FOR LOCATION AND WEIGHTS OF EACH UNIT. DESIGN JOISTS FOR ADDITIONAL WEIGHT OF ROOF TOP UNITS SHOWN ON PLAN.
- SEE PLAN FOR JOIST BEARING ELEVATIONS.
- SEE THIS SHEET FOR ROOF DESIGN LOADS AND FOR UPLIFT DIAGRAM.

FLAT ROOF DESIGN LOADS				
BAR JOIST LIVE LOAD GRID B-C	BAR JOIST LIVE LOAD GRID A-B	GIRDER LIVE LOAD	SUPERIMPOSED TC DEAD LOAD	SUPERIMPOSED BC DEAD LOAD
30 PSF	20 PSF	20 PSF	20 PSF	5 PSF



MARK	DESCRIPTION	DATE

WVA ARCHITECTURE, LLC
ARCHITECTURE / PLANNING

170 West Hibiscus Blvd, Suite 308
Fort Lauderdale, Florida 33304
Tel: 954-752-8411 Fax: 954-752-5258

FORGE D. NOVOLO
LICENSE
NO. 75364
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JOHNSON GROUP
STRUCTURAL

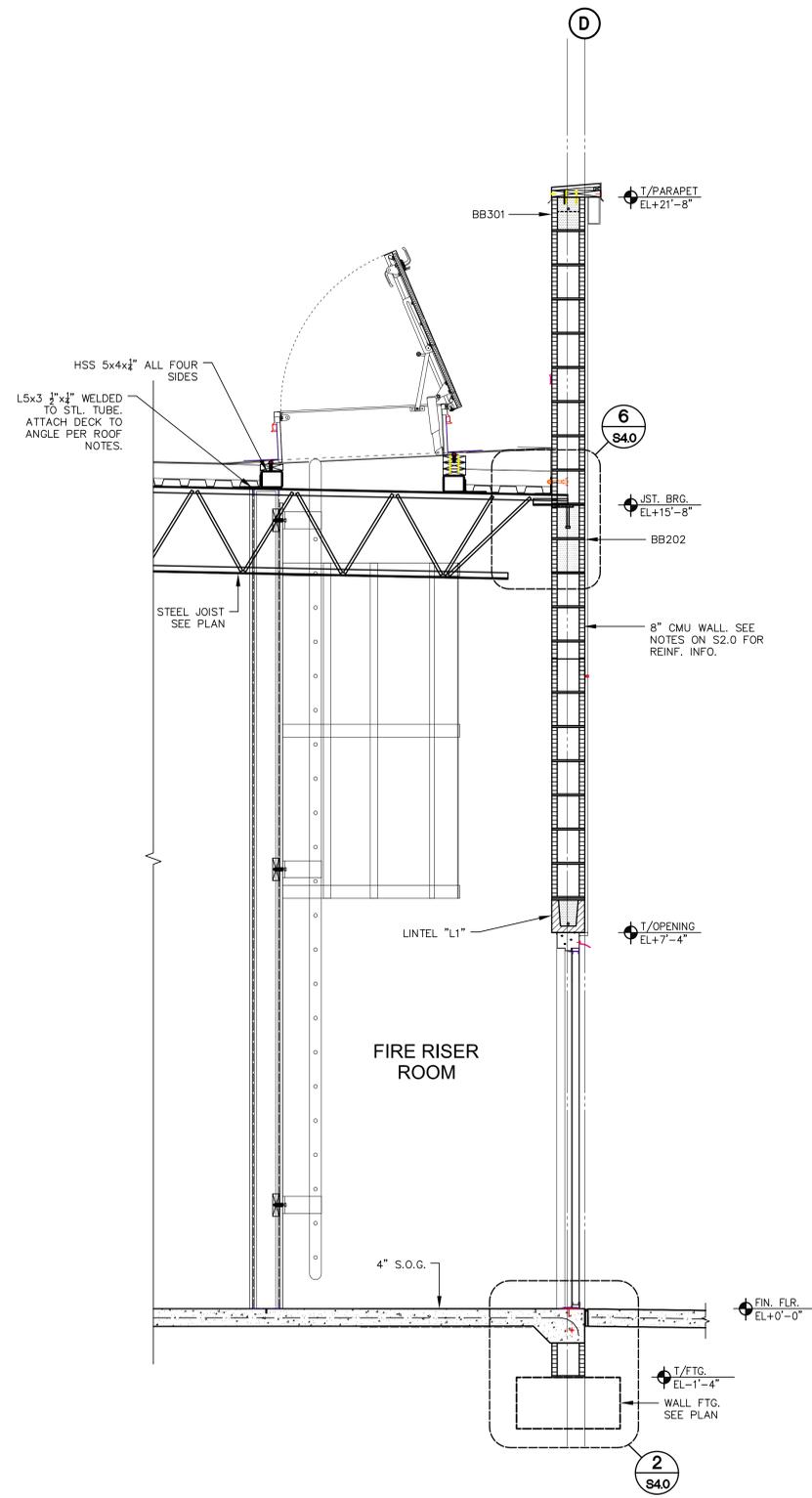
SHADOWWOD (EDENS), LLC
500 E. Broward Blvd.
Suite #1620
Fort Lauderdale, Florida 33301
Ph: 954-670-8990
Fax: 954-670-8991

SHADOWWOOD SQUARE BUILDING 'G' SHELL DRAWINGS
Palm Beach County, Florida

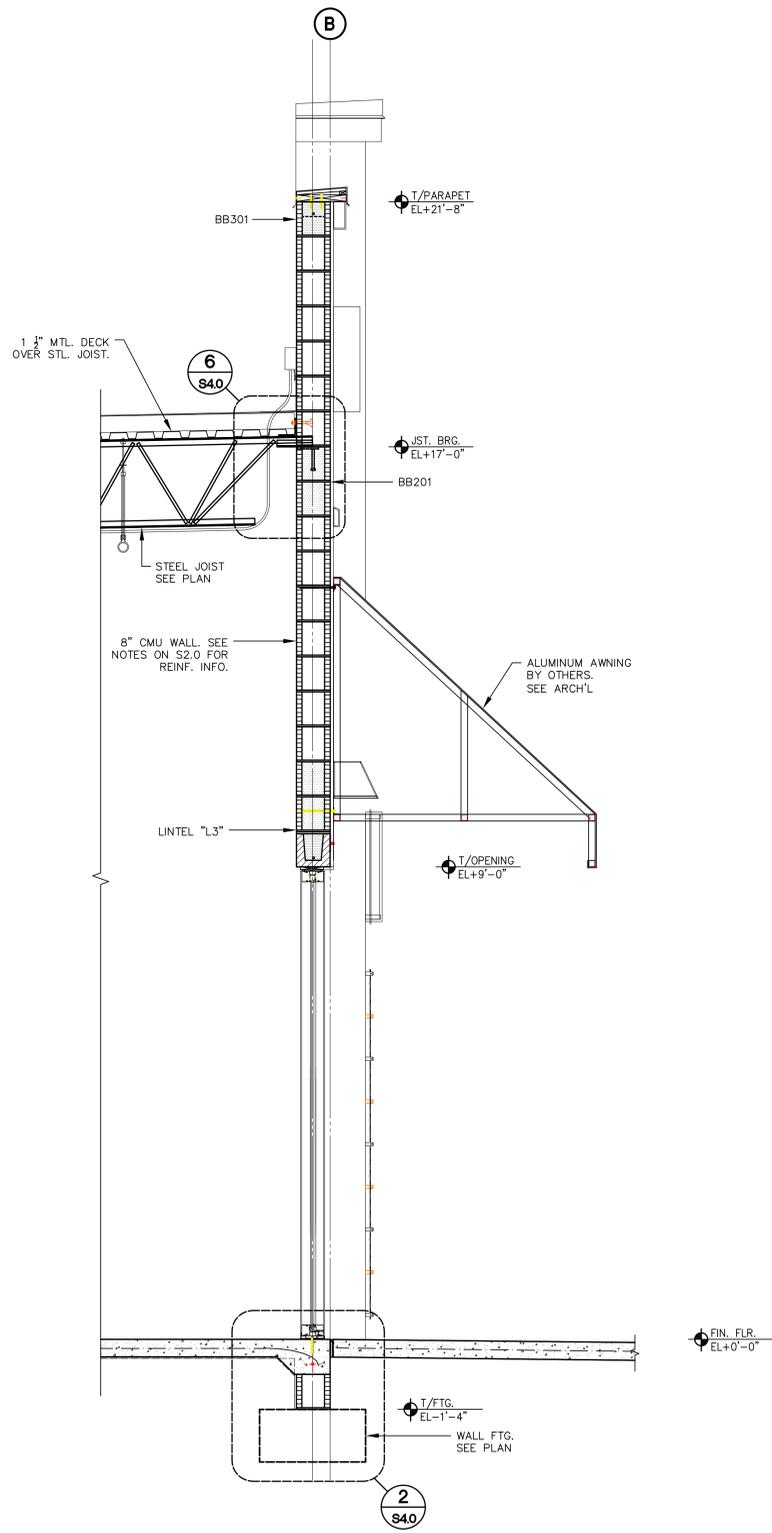
STRUCTURAL BUILDING SECTIONS

JOB NUMBER	JSG 25014
SCALE	3/4"=1'-0"
PERMIT DATE	
ISSUE DATE	05/02/25
BID DATE	

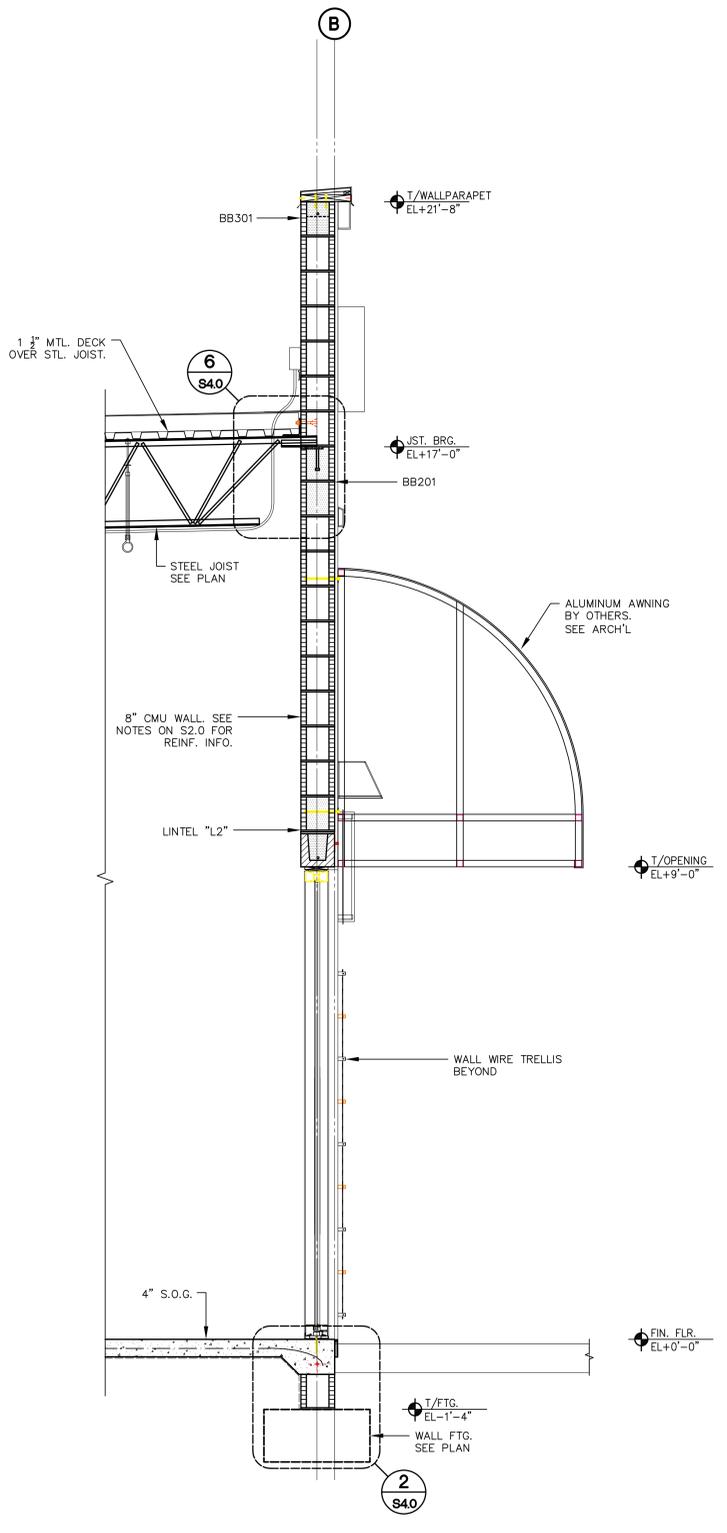
DRAWN BY	S.G.
CHECKED BY	J.N./MJ
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER	S3.0



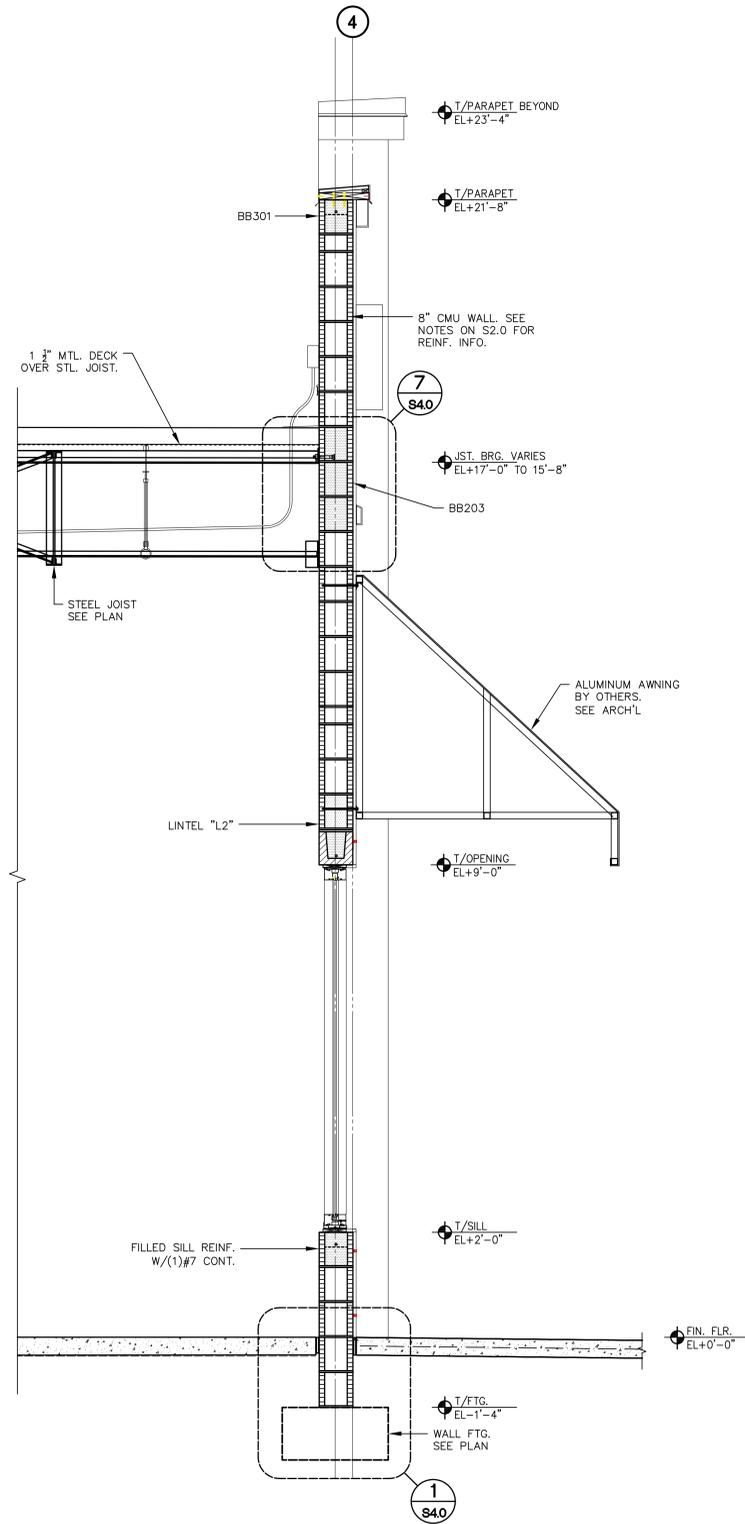
3 BUILDING SECTION
SCALE: 3/4"=1'-0"



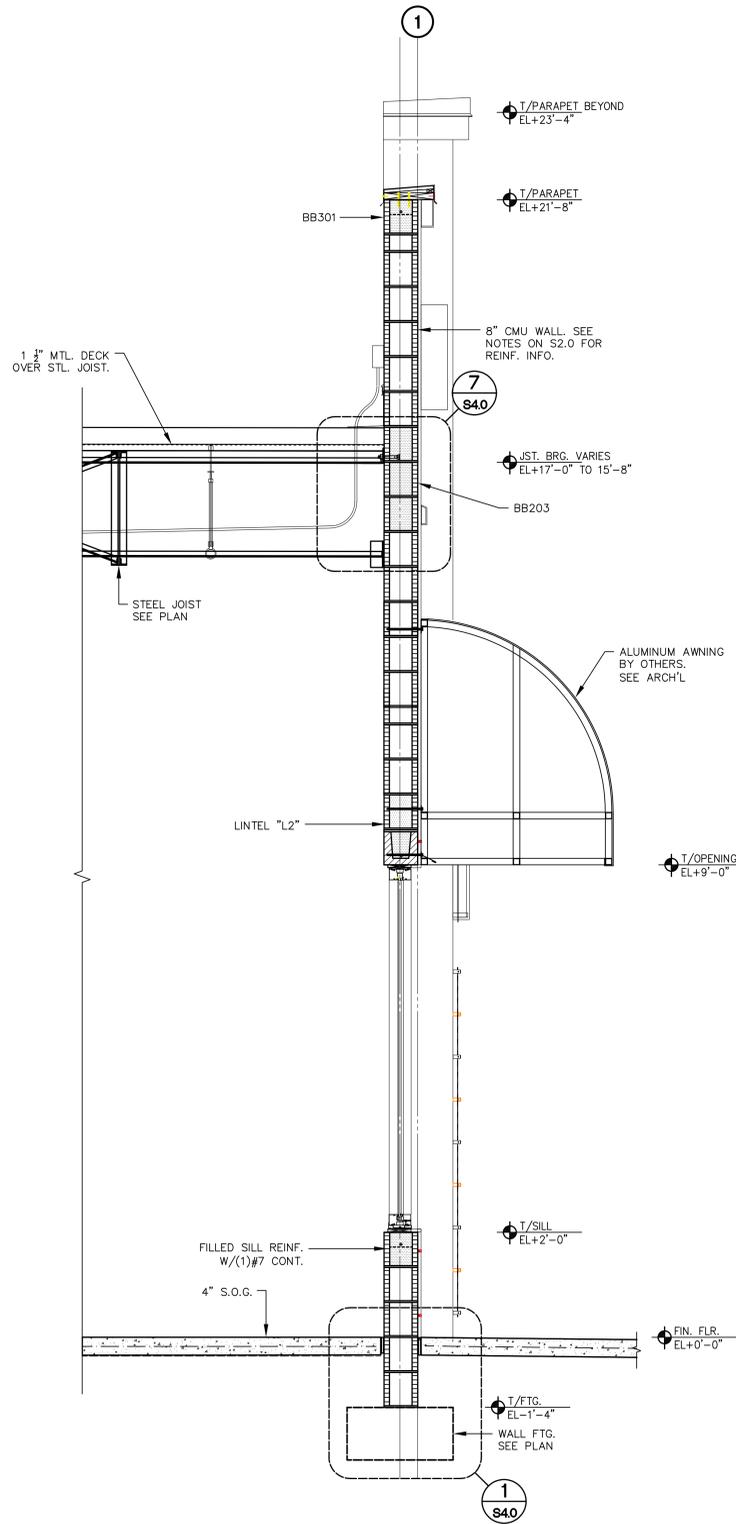
2 BUILDING SECTION
SCALE: 3/4"=1'-0"



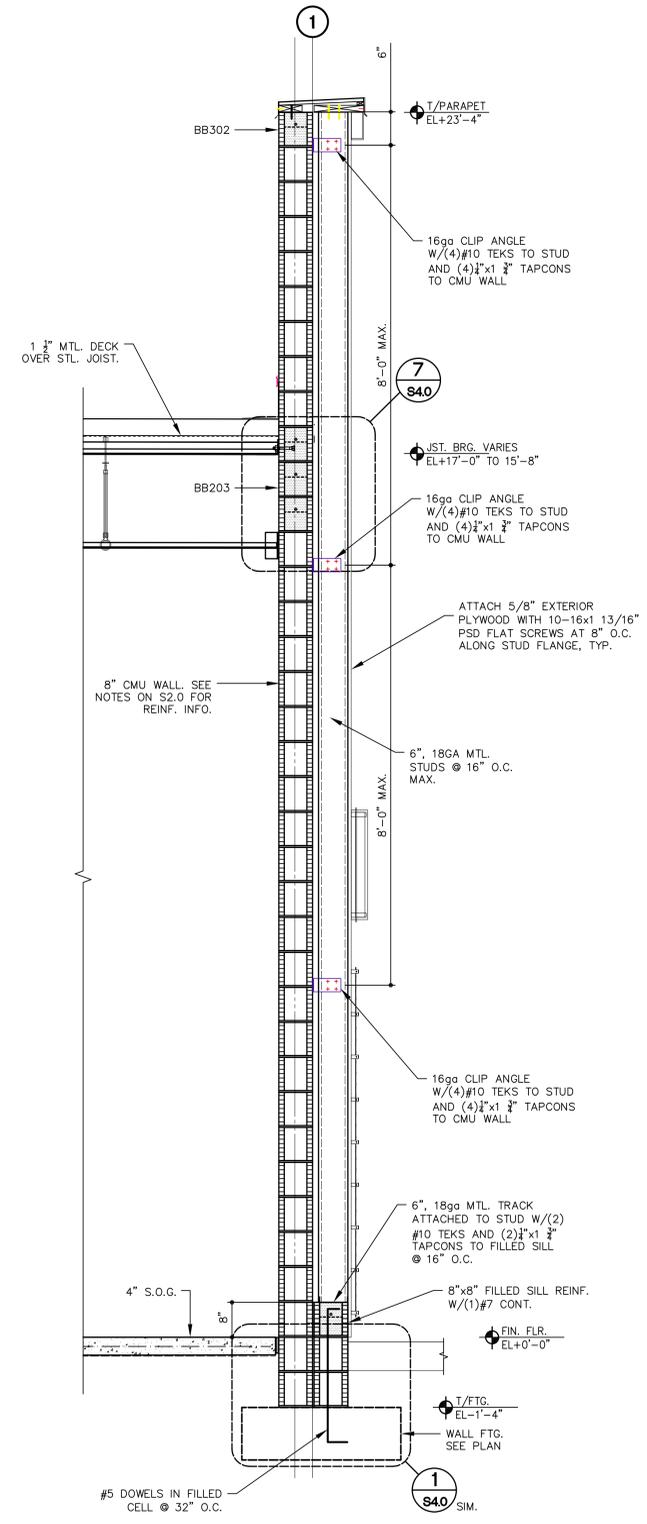
1 BUILDING SECTION
SCALE: 3/4"=1'-0"



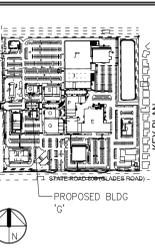
1 BUILDING SECTION
SCALE: 3/4"=1'-0"



2 BUILDING SECTION
SCALE: 3/4"=1'-0"



3 BUILDING SECTION
SCALE: 3/4"=1'-0"



MARK	DESCRIPTION	DATE

WVA ARCHITECTURE, LLC
ARCHITECTURE / PLANNING

170 West Hibiscus Blvd, Suite 308
Fort Lauderdale, Florida 33301
Tel: 954-752-8411 Fax: 954-752-8442
F: 954-752-8288

FORGE D. NOVOLO
LICENSE
NO. 75364
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JOHNSON GROUP
STRUCTURAL

SHADOWWOOD (EDENS), LLC
500 E. Broward Blvd.
Suite #1620
Fort Lauderdale, Florida 33301
Ph: 954-670-8990
Fax: 954-670-8991

SHADOWWOOD SQUARE BUILDING 'G' SHELL DRAWINGS
Palm Beach County, Florida

STRUCTURAL BUILDING SECTIONS

JOB NUMBER	JSG 25014
SCALE	3/4"=1'-0"
PERMIT DATE	
ISSUE DATE	05/02/25
BID DATE	

DRAWN BY	S.G.
CHECKED BY	J.N./MJ
DISCIPLINE	STRUCTURAL
PLAN TYPE	
SHEET NUMBER	S31

