THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE CONSTRUCTION DOCUMENTS OF ALL DESCRIBUSES PRIOR TO SUBMITTAL OF SHOP DERAWINGS OR BEGINNING CONSTRUCTION IN THE AFFECTED AREAS. THIS COMPARISON/COORDINATION SHALL INCLUDE, BUT NOT SE LIMITED TO, DIMENSIONS, EVALUATIONS, ENBEDDED ITEMS, ANCHORED OR OTHERWISE SUPPORTED ITEMS, FLOOR, ROOF, AND WALL OPENINGS, ETC. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES ALONG WITH THE APPLICABLE DOCUMENT

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTY. THIS REQUIREMENT IS PARTICULARLY IMPORTANT DURING FOUNDATION INSTALLATION.

THE GENERAL CONTRACTOR IS ADVISED TO CONSIDER PERFORMING PHOTOGRAPHIC SURVEYS AND OTHER DOCUMENTATION OF THE CONDITION OF ADJACENT BUILDINGS AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST CONTRACT DOCUMENTS. INCLUDING ALL ADDENDA, AND PROVIDE THE RELEVANT PORTIONS TO ALL SUB-CONTRACTORS AND SUPPLIESE PRIOR TO PREPARATION AND SUBMITTAL OF SHOP DRAWINGS AND FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.

PARTIAL PLANS, ELEVATIONS, SECTIONS, DETAILS, AND SCHEDULES LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SMILLAR TO THOSE SPECIFICALLY DETALLED. SEE DETAIL THISE FOR APPLICABILITY OF A PARTICULAR PARTIAL PLAN, ELEVATION, SECTION OR DETAIL "TYPICAL DETAILS SHALL APPLY WHIETHER OR NOT THEY ARE SPECIFICALLY REFERENCED AT EACH LOCATION. THE STRUCTURAL ENGINEER OF RECORD SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.

WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER, SHALL GOVERN.

DELEGATED ENGINEER REQUIREMENTS: THE FLORIDA BOARD OF PROFESSIONAL ENGINEERS HAS SINGLE STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, PURSUANT TO COLOMONATIOS OF THE STRUCTURE REQUIRE THE WORK OF ELECTRIC THE WORKERS FOR THE DESIGN OF THOSE COMPONENTS. ALL RELEVANT PROCEDURES PRESENTED IN THE FLORIDA ADMINISTRATIVE COCOS BUILLA PLAY TO THIS PROJECT.

10. DESIGN OF PRE-ENGINEERED METAL BUILDING SYSTEM, COLD FORMED STEEL FRAMING (CFS)
OR THER SPECIALTY ENGINEERED ITEMS NOT FULLY DETAILED OR PROVIDED FOR IN THE
CONSTRUCTION DOCUMENTS SHALL BE DESIGNED, DETAILED, FURNISHED AND INSTALLED WITH
ALL THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS SPECIFIED HERE AND ELSEWHERE.

11. THE STRUCTURAL ENGINEER OF RECORD (SER) SIMUL REVIEW AND RESPOND TO STRUCTURAL REQUESTS FOR MEDINANCIN (RPIS), AS REQUIRED DURNOT THE COURSE OF THE PROJECT. REQUIRED ADDRESS OF THE PROJECT. REPORT OF THE PROJECT OF THE PROJE

NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

CONSTRUCTION RESPONSIBILITY:

THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE. AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY

THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEMBAS METHODS. TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR COMMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PRESSOS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDIANCE WITH THE CONTRACTOR DOLUMENTS.

PERODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SCLE PURPOSE OF THESE DESERVATIONS IS TO RIVEN THE GENERAL CONFORMANCE OF THE SCLE PURPOSE OF THE SCHEMANCE OF TH

PRIMARY CODES AND SPECIFICATIONS:

GENERAL BUILDING CODE:
A. FLORIDA BUILDING CODE - BUILDING, EIGHTH EDITION, 2023.

ASCE 7-22 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.

CONCRETE CODES:

A. ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

B. ACI 301-18 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

C. CRSIMANUAL OF STANDARD PRACTICE.

MASUNRY CONSTRUCTION:
A. TMS 402-16 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
B. TMS 602-16 SPECIFICATIONS FOR MASONRY STRUCTURES.

STRUCTURAL STEEL CODES:

A. AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

B. AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

COLD FORMED STEEL FRAMING:

A. AISI S100-16 NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL

STRUCTURAL MEMBERS (SUPPLEMENT 2 - 2020).

SIS 1202-20 CODE OF STANDBARD PRACTICE FOR COLD FORMED STEEL FRAMING.

AISI S202-20 NORTH MARRICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL

DESIGN LOADS:

SUPERIMPOSED DEAD LOADS:
 A POOES:

MINIMUM (COMBINED w/ WIND UPLIFT LOADINGS)....... MAXIMUM ALLOWANCE SEE ROOF PLANS FOR OTHER CONCENTRATED LOADS

LINE LOADS:

WIND LOADS:
A ULTIMATE DESIGN WIND SPEED, 3 SECOND GUST, Valt... 133 MPH
NOMINAL DESIGN WIND SPEED, V SECOND GUST, Vasd... 103 MPH
TORNADO DESIGN WIND SPEED VT... 105 MPH
VS. VIENNAD OF SECOND WIND SPEED VT... 105 MPH
VS. VIENNAD OF SECOND WIND SPEED VT... 105 MPH
VS. VIENNAD OF SECOND WIND SPEED VT... 105 MPH
VS. VIENNAD OF SECOND WIND SPEED VT... 105 MPH
VS. VIENNAD OF SECOND WIND SPEED VT... 105 MPH
VS. VIENNAD WIND SPEED WT... 105 MPH
VS. VIENNAD WT... 10 .600 SQ FT EFFECTIVE WIND AREA (A,).
BUILDING RISK CATEGORY.
WIND EXPOSURE CATEGORY.
WIND TOPOGRAPHIC FACTOR (Kzt).
ENCLOSURE CATEGORY.
INTERNAL PRESSURE COEFFICIENT.
MEAN ROOF HEIGHT. +/- 0.18 12 FEET MEAN ROOF HEIGHT.
WIND DIRECTIONALITY FACTOR, Kd.
VELOCITY PRESSURE COEFFICIENT (Kh).
ULTIMATE VELOCITY PRESSURE (qh[uit]).
NOMINAL VELOCITY PRESSURE (qh[nom]).

SEE LOADING NOTES, TABLES AND DIAGRAMS FOR DESIGN FORCES FOR COMPONENTS DESIGNED BY DELEGATED ENGINEERS.

4. SEISMIC: EXEMPT PER EXCEPTION 2 OF FLORIDA BUILDING CODE SECTION 101.2.

5. GROUND SNOW LOADS: EXEMPT PER EXCEPTION 2 OF FLORIDA BUILDING CODE SECTION 101.2.

DESIGN HEAD OVER SECONDARY, ds...... OVERFLOW RATE...... N/A INCHES N/A GALLONS PER MINUTE

FUTURE BUILDING GROWTH:

THE BUILDING HAS NOT BEEN DESIGNED FOR ANY FUTURE VERTICAL OR HORIZONTAL GROWTH.

FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT:
 NUMBER: 34-00364-01

BY: CAL TECH TESTING, INC.
AND DATE: JUNE 12, 2024.
THE GENERAL CONTRACTOR MAY REVIEW A COPY OF THE GEOTECHNICAL REPORT AT THE
OFFICE OF THE ARCHITECT.

ALL VEGETATION, TOPSOILS, ROOTS AND ORGANIC ZONES SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA FOR A DISTANCE OF A TLEAST 5 FEET BEFORD THE EXTERIOR OF BUILDING FOUNDATION LIMITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SOMPLICANT ROOT ZONES, SMALL TREE STUMPS AND OTHER UNACCEPTAGE MATERIALS, BUT IN OR CASE LESS THAN 8 BOCHES.

EXCAVATIONS FOR LARGE STUMPS, ABANDONED LITELTIES, UNDERGROUND TANKS, ETC. SHALL BE BACKFILLED IN LAYERS WITH COMPACTION AND TESTING OF EACH LAYER AS DESCREED FOR PLACEMENT AND COMPACTION OF FILL MATERIAL USE LOOSE BACKFILL LAYER THICKNESS APPROPRIATE FOR THE SIZE OF COMPACTOR BEING USED.

4. AFTER THE SITE HAS BEEN CLEARED, THE SITE SHALL BE PROOF-ROLLED UNDER THE DIRECT OBSERVATION OF THE PROJECT EGOTECHNICAL REPRESENTATIVE. PROVIDE A MINIMUM OF 8 OVERLAPPING COVERAGES IN EACH DIRECTION (16 TOTAL) WITH A MINIMUM OF 30% OVERLAP. REMOVE AND REPLACE ALL UNSUITABLE MATERIALS TO A DEPTH OF AT LEAST 4-0 BECOW THE BOTTOM OF THE FOUNDATIONS AND THE SLAB-ON-GRADE.

ATER THE STEP HAS BEEN CLEARED AND PROPOROFICION. THE SUBJOING SOURCE AT THE STREPPED SURFACE WITHIN AND TO A POINT 10 FEET OUTSIDE THE BUILDING CONTRICTION AND TO A POINT 10 FEET OUTSIDE THE BUILDING CONTRICTION AND TO A POINT 10 FEET OUTSIDE THE BUILDING SOURCE AND THE TO THE STREPPED OF AT LEAST 19 FEET OF THE TO THE THE TO TH

AFTER COMPLETION OF DENSIFICATION OF EXISTN SOILS, STRUCTURAL FILL SHALL THEN
BE PLACED IN LIFTS NOT EXCEEDING 12 MOISES IN LOSS THICKNESS WHEN USING THE
ROLLER PREVIOUSLY PERSONEDS. LIGHT IF SHALL BE INFORMED WITH THE
ROLLER PREVIOUSLY TEXT SHAPE LIGHT LIFTS AND LIFT PROVIDED TO THE PROVIDED TO THE THE
ROLLER PREVIOUSLY TEXT SHAPE LIFTS AND LIFTS AND

FOUT TWO SHAPE BEEN LESSORED FOR AN ALLOWING BEARMON, PRESSURE OF YOUR PIE-IEL IMPSET; IN DENICE OF SAMON BEARMO GOLS AS THE FOOTING DOWNSHIP TO NOT TOURS SHALL BE COMPACTED TO DENSITIES EQUINALENT TO 56 PERCENT OF THE MODIFIED PROCOTOR MAXIMAM ROY DENSITY. COMPACTION, OR RECOMPACTION OF THE FOOTING ACHIEVED BY MAKING SEVERAL PASSES WITH A PELATIVELY LIGHTWEIGHT, WAS BEHIND MEMORY TOWN THE OR ROLLER COMPACTOR.

8. UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS, PIERS AND WALLS.

9. SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF AT LEAST 12 INCHES. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A VAPOR RETARDER. SEE SPECIFICATIONS.

10. SEE SPECIFICATIONS FOR SURFACE AND GROUND WATER CONTROL

CAST-IN-PLACE CONCRETE:

THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:

ACI 306 (WINTER CONCRETING) ACI 305 (HOT WEATHER CONCRETING) ACI 211.1 (MIX PROPORTIONING)

ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE STRUCTURE AS FOLLOWS:

STRUCTURAL ELEMENT FOOTINGS & SLAB-ON-GRADE 3500 3/4" 0.50 2-4

6. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SLABS ON GRADE: UNLESS NOTED OTHERWISE, CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4"THICK, REINFORCED WITH 6x6 W1.4xw1.4 WWF PLACED 1-1/2" CLEAR FROM THE TOP OF THE SLAB. SLABS SHALL BE PLACED OVER PROPERLY COMPACTED EARTH.

REINFORCING STEEL:

1. REINFORCING STEEL: ASTM A615, GRADE 60.

2. REINFORCING STEEL TO BE WELDED: ASTM A706 (DBA's, EMBEDS)

3 WEI DED WIDE EARDIC: ASTM A10R4 ELAT SHEETS

MINIMUM REINFORCING STEEL CLEAR COVER (U.N.O.):

A. CONCRETE CAST DIRECTLY AGAINST EARTH

B. FOUNDATION AND EXTERIOR WALLS.

C. SLABS ON GRADE

.2" 1.1/2" EDOM TOD

8 WHERE SOURS LENGTHS ARE NOT SPECIFIED LISE AS BAR DIAMETERS

7. REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON.

8. LAP ALL WELDED WIRE FABRIC A MINIMUM OF ONE CROSS WIRE SPACING PLUS 2 INCHES.

ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY
AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING
PLACEMENT OF CONCRETE: SUPPORTING ACCESSORY LEGS THAT REST ON CONCRETE
SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF
STANLESS STEEL.

10. DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF CONCRETE AND SHALL NOT BE PUSHED INTO CONCRETE FOLLOWING CONCRETE PLACEMENT.

FOUNDATION, GRADE BEAM AND SLAB ON GRADE REINFORCING SHALL BE SUPPORTED ON PRECAST BLOCKS OR 3000 PSI CONCRETE BRICK OF THE PROPER THICKNESS.

12. SOFT METRIC BAR SIZES VS. INCH POUND BAR SIZES:

METRIC	INCH-POUND
#10	#3
#13	#4
#16	#5
#19	#6
#22	#7
#25	#8

CONCRETE FORMWORK:

1 SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS

ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK

RESPONSIBILITY: THE DESIGN CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHOKES, SUPPORT ALL LOADS IMPOSED NOLLIDION TO THE VIEW REGIST OF CONCRETE. CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIPACIONS PHOE TEALER DEQUERIEMENTS.

4. TOLERANCES: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL COMPONE TO A CESTANDARD 11; STRANDARD TOLERANCES FOR CONCRETE SHALL COMPONE TO A CESTANDARD 11; STRANDARD TOLERANCES FOR CONCRETE SHALL COMPONE TO A CESTANDARD SHALL CONTROLL CON

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED WHERE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

PLUMBING SLEEVE SPACING SHALL BE THE LARGER OF THREE (3) DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE, OR "CLEAR BETWEEN SLEEVES. SUBMIT SLEEVE LOCATIONS AND SIZES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SPECIFICALLY MIDCALED ON THE STRUCTURAL DRAWNESS WITHOUT THE WRITTEN DRAWNESS OF STRUCTURAL BENEFICE OF RECORD FOR REVIEW MIDCALING ANY CONCENTRATION OF PIPES, DEPININGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWNESS OF THE OCCUPANT OF STRUCTURAL DRAWNESS PORT OF CONCENTE PLACEMENT.

ACI 315 (DE FALING) ACI 347 (FORMWORK) ACI 301 (SPECIFICATIONS)

28-DAY
COMPRESSIVE MAX. SLUMP
STRENGTH MAX. SIZE W/C RANGE
(PSI) AGGREGATE RATIO (IN)

3. CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT INTO STRUCTURE.

WATER REDUCING AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES.
SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTOR'S OPTION.

A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OF AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PROOF TO CASTING ANY CONCRETE. MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING SHALL BE SECFECTIVE DESIGNED FOR PUMPING.

STRUCTURAL DRAWING INDEX

DRAWING NUMBER DRAWING DESCRIPTION GENERAL STRUCTURAL NOTES & STRUCTURAL DRAWING INDEX GENERAL STRUCTURAL NOTES - CONTINUE

ABBREVIATIONS, SYMBOL LEGEND AND WIND LOAD INFORMATION FOUNDATION & GROUND FLOOR PLAN FOUNDATION SECTIONS & DETAILS MASONRY SECTIONS & DETAILS

ПВ = L mm \mathbf{L}



MARK A. MILLER, P.E. FLORIDA P.E. #45319

STRUCTURAL STRUCTURAL ING INDEX GENERAL 8 NOTES & S DRAWI

DATE: 9/12/2024

Miller Engineering, LLC

2338 S0.1

- 2. CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-90 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI (NET AREA).
- 3. MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.
- 4. PLAIN END TWO CELLED UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILLED. WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDDED IN MORTAR.
- FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-476. SPECIFICALLY DESIGNED FOR FILLING OF CELLS.
- 7. SEE PRIMARY CODES, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.
- INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT. DO NOT SPONGE WALLS WITHOUT PROPER CLEANING COMPATIBLE
- PROVIDE GALVANIZED WIRE TYPE HORIZONTAL JOINT REINFORCING AT 16" O.C. (MAX) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIP GALVANIZED HIR ON A L INDIGINE DIVANCED IN ADDITION TO SCHEDULED OR DETAILED LINTEL AND SILL REINFORCING, PROVIDE TWO LAYERS OF HIR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL LINTELS AND SILLS WHICH SPAM MORE THAN 12 INCHES. EXTEND ADDED HIR 24 INCHES BEYOND THE OPENING JAMBS EXCEPT AT WCJ.
- MASONRY BOND BEAMS AND CONCRETE TIE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED SO AS TO KEY AND BOND INTO BLOCK CELLS. THE USE OF BUILDING PAPER OR SHEET PLASTIC TO CLOSE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF MORTAR BOND.
- 1. SEE ARCHITECT'S DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.
- 12. WALL CONTROL JOINTS (WCJ):

 A. WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION
 AT LOCATIONS MOIDCATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT
 UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24 O.C.
 B. HORIZONTAL JOINT REINFORCHISG SHALL BE INTERRUPTED EACH SIGE OF WALL CONTROL

 - JOINTS.
 WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING
 JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB
 WIDTHS.
- D. SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL JOINTS.
 E. SEE THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS, AS DETAILED ON THE STRUCTURAL DRAWINGS.
- BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS, OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS.
- 15. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO ALL MASONINY WALES SHOWN ON THE STRUCTURE DEVININGS MAYE BEEN DESIDENCY RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION COLV. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY PRICE TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOORS OR ROOF FRAMING LEVELS.
- 16. QUALITY ASSURANCE: ALL REINFORCED MASONRY SHALL BE TESTEDINSPECTED IN CONFORMANCE WITH THE REFERENCED ACI SOUASCE STIMS 402 CODES AND THE PROJECT SPECIFICATIONS. QUALITY ASSURANCES SHALL MEET THE REQUIREMENTS OF SECTION 18, TABLE 4 LEVEL B, UNILESS MORE RESTRICTIVE REQUIREMENTS ARE SPECIFIED ELSEWHERE IN
- TYPICAL SCHEDULED VERTICAL WALL REINFORCING SIZE AND SPACING SHALL ALSO BE CONTINUED ABOVE AND BELOW ALL OPENINGS.

STRUCTURAL STEEL:

- 1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- 2. MATERIALS:

	ASTM A36
	ASTM A36
STEEL PIPE	ASTM A53, GRADE B
	ASTM A1085, GRADE A OR ASTM A500, GRADE C
	GROUP A - ASTM F3125, GRADE A325 OR F1852, UN
	. ASTM F1554, GRADE 55 TYPE S1(UNO)
	ASTM A307, GRADE A
	ASTM A108
	ASTM A496
	AWS D1.1. E70 SERIES

- SUBMIT FOR REVIEW SHOP DRAWINGS OF STEEL DETAILS PRIOR TO FABRICATING STRUCTURAL STEEL.
- NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 28 DAY STRENGTH OF 5000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-0621, FACTORY PREMIX GROUT, SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
- ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS OR RODS AND COLUMN BASE PLATES (PER OSHA).
- TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS.
- CONTRACTOR MUST PROVIDE NOTIFICATION TO THE ERECTOR THAT, BY TESTING, THE FOUNDATION AND SUPPORTING WALLS HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE STEEL TO BE ERECTED BEFORE FRECTING STRUCTURAL STEEL.
- 8. ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED.
- DURING THE ERECTION OF STEEL BEAMS AND DIAGONAL BRACING, ALL BOLTING AND FIELD WELDING SHALL BE COMPLETE BEFORE RELEASING HOISTING CABLES.
- STEEL COLUMNS, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION.
- MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY WELDED AT ALL BUTT SPLICES OR CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.

PRE-ENGINEERED BUILDING:

- THE BUILDING SHALL BE A STANDARD PREFABRICATED METAL STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN, WITH FRAMES SPACED AS SHOWN, MINIMUM WEB THICKNESS OF RIGID FRAMES SHALL BE 316° AND MINIMUM FLANGE THICKNESS SHALL BE 114°. RIGID FRAMES SHALL BE DESIGNED FOR PINNED CONDITIONS AT COLUMN BASES.
- THE COMPLETE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO ASC, MBM, ABOUT THE COMPLETE FOR THE PERCENT OF THE PERCEN

FRAME MAXIMUM VERTICAL DEFLECTION	L/2
FRAME LIVE LOAD VERTICAL DEFLECTION	L/3
FRAME LATERAL DRIFT (AT EAVE LINE)	H/3
ROOF PURLIN MAXIMUM DEFLECTION	L/1
ROOF PURLIN LIVE LOAD DEFLECTION	L/3
WALL GIRT MAXIMUM LATERAL DEFLECTION	L/1

- A COMPLETE DESIGNA HAN YORS SHOWING ALL CALCULATIONS FOR THE REDD FRAMES, GRITS FOR USE AND ASSECTION FOR ASSECTION OF THE REDD FRAMES, GRITS FOR ASSECTION FOR ASSECTION OF THE SHOWING AND OTHER EMBEDDED ITEMS SHALL BE SIRBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS SHOW IN EACH DETERMINED FOR A PER AND OTHER SHOWING BOLT HOLES AND WELDS, ANCHOR BOLTS AND ERECTION COMNECTIONS, SHOWING BOLT HOLES AND WELDS, ANCHOR BOLTS AND ERECTION DRAWNGS, ALL OF THE ADDIC ARE TO BE SUPPLIED BY BUILDING MANNACTURER.
- THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL OVERHEAD DOORS, DOOR FRAMES AND MECHANICAL EQUIPMENT INCLUDING EXHAUST SYSTEMS, ETC. ADDITIONAL PURLINS OR
- THE FOUNDATIONS SHOWN HAVE BEEN DESIGNED FOR ESTIMATED FOOTING LOADS TO ACCOMMODATE PRINCED COLUMN BASES. FOUNDATIONS SHOWN ARE TO BE LISSE FOR SHOULD SHOW ARE TO BE LISSE FOR SHOULD SHOW ARE TO BE LISSE FOR A SHOULD FURNISHED FOR THE SHOULD FOUNDATION OF COLORS FOR THE CONTRICTION COLORS FOR THE SHOULD FURNISHED FOR THE SHOULD FURNISHED FOR COLORS FOR THE SHOULD FOR THE CONTRICTION COLORS FOR THE SHOULD FURNISHED FOR THE SHOULD FOR THE SHOULD FOR THE SHOULD FOR THE CONTRICTION SHOULD FOR THE SHOULD FURNISHED FOR THE SHOULD FURNISH THE SHOULD FURNISH THE SHOULD FOR THE SHOULD FURNISH THE SH
- THE CONTRACTOR / CONSTRUCTION MANAGER SHALL SUBMIT, AS A PART OF THE PROPOSAL OR BID TO THE OWNER, A CERTIFICATE FROM THE PRE-ENGINEERED BUILDING MANUFACTURER SELECTED TO FURNISH THE PRE-ENGINEERED PORTION OF THE WORK STATING THE FOLLOWING:

TIME THE POLLOWING.

"MANUFACTURERS NAME] CERTIFIES THAT STRUCTURAL DRAWNOS. GENERAL NOTES.

"MANUFACTURERS NAME] CERTIFIES THAT STRUCTURAL DRAWNOS. GENERAL NOTES.

AND OPET LIMITATIONS, AND OTHER SPECIAL REQUIREMENTS FOR THIS PROJECT HAVE

AND OPET LIMITATIONS, AND OTHER SPECIAL THANGER AND DESIGN ENCINEER. WE

DOCUMENTS MAY BE MORE STRUCKET THAN MEAN REQUIREMENTS AND OUR NORMAL

DESIGN AND SHOP PACIFIC. WE CENTEY THAT WE MURPERIAM THE REQUIREMENTS OF

CONSTRUCTION OF MANUFACTURE OF SUPPLYING THE PRE-ENGIREMENT OF THE CONTROLL

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THE PRE-ENGIREMENT OF THE CONTROLL OF

FAILURE OF THE MANUFACTURER TO PROVIDE THIS CERTIFICATE SHALL BE REGARDED AS NON-RESPONSIVE BY THE CONTRACTOR (CONSTRUCTION MANAGER) AND THE MANUFACTURER'S PROPOSAL SHALL BE CONSIDERED INVALID.

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL DETAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD (SER) PRIOR TO USING POST-INSTALLED ANCHORS OR ADHESIVE ANCHORING SYSTEM FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS ANDIOR REINFORCING DOWELS.
- ALL POST-INSTALLED ANCHOR INSTALLATION SHALL BE BY A QUALIFIED PERSONNEL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII)
- SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL SE FLORIDA REGISTERED PROFESSIONAL ENGINEER SHOWNED THAT THE SUBSTITUTED PRODUCT WILL ADHERS HE SUBMILLED CAPACITY USEN THE APPROPRIATE DESIGN PROFESSIONAL FOR THE REGISTER OF THE PROPRIATE OF THE PROPRIATE DESIGN PROFESSION OF THE SECOND PROPERTY OF THE PRODUCT WAS THE ATTEMPT OF THE PRODUCT WILL SET AT THE SECOND SCIENCE OF THE PROCEDULE OF THE PROCEDULE OF THE PROPRIATE SHALL BE RECLUSED.
- 4. MINIMUM REQUIREMENTS FOR POST-INSTALLED ANCHORS AT TIME OF INSTALLATION:
- 5. ANCHOR PRODUCTS APPROVED FOR USE ON THIS PROJECT ARE LISTED BELOW (UNO):
- AMCHANCH PRODUCTS APPROVED FOR USE ON THIS PROJECT ARE USETED BELOW (M/O).

 A MECHANICAL ANGIORES BYTO CONSTRETS SHALL HAVE BEEN TISSTED IN ACCORDANCE WITH ACI 3552 AND DCC-55 ACIST FOR CRACKED CONCRETE.

 1. THE FOLLOWING ANCHORS ARE ACCESTRALE FOR USE WITH THE REQUIRED CONCRETE.

 A MELT YOUR GOLD THE ACCESTRALE FOR USE WITH THE REQUIRED CONCRETE.

 1. HILT YOUR GOLD THE TENDENCE STORY OF THE SERVEY OF THE

- ADHESVE ANCHORS INTO CONCRETE SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACT 30S AND DCCSS ACSIS FOR CRACKED CONCRETE

 BEENEMBER SECRETORY SECRETORY OF THE REQUISED THE REQUISED THE REPORT OF THE SER A HEIT-HET ACT SO THE SER WITH HE SER A HEIT-HET ACT SO THE ADBESS WITH HEIT HIT AS TEEL ROOI (DCC SE SEN-488)

 B. HEIT-HET ACT 30C YS ADBESS WITH HEIT HIT AS TEEL THE ADDED TOOI (DCC SE SEN-488)
- ESR-4869

 CHILT HITHE 500 VS* ADHESIVE WITH HILTI HAS-E STEEL THREADED ROD (ICC-ES-ESR-3814)

 SIMPSON STRONG-TIE "SET-3G" EPOXY ADHESIVE ASTM A193 Gr 87 STEEL THREADED ROD,UNO (ICC-ES-ESR-4057)
- C. STEEL RENFORCING BARS ANCHORED INTO CONCRETE WITH ADMESTIC ANCHORMING SYSTEMS SMALL HAVE RESENT ESTED AN ACCORDANCE WITH AD 3854 AND ICCES NOT THE ADMESTIC ANCHORMING SYSTEMS ARE ACCORDANGE FOR USE ONLY WHERE SPECIFED ON THE CONSTRUCTION DOCUMENTS OR APPROVED BY THE SER. A. HILT THIFFUT 200 YAY DANSEN (ICCES SEX-8814)

 B. HILT HIFFUT 200 YAY DANSEN (ICCES SEX-8814)

 C. SMIPSON STRONG IT EST-200 FORDY AMENDE (ICCES SEX-4857)

COLD FORMED STEEL (CFS) FRAMING

- 1. SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- ALL INTERIOR BEARING WALLS, LINTELS, BEAMS, ETC. SHALL BE DESIGNED, SIGNED AND SEALED BY THE SUPPLIER'S DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- ALL MEMBERS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653 SQ GRADE 33 (Fy = 33,000 PSI). GALVANIZED COATING SHALL CONFORM TO ASTM A24 WITH COATING DESIGNATION 606.

AUTOMATIC FIRE PROTECTION SPRINKLERS:

- THE AUTOMATIC SPRINKLER SYSTEM SHALL BE LAID OUT SO THAT LARGE DIAMETER MAIN FEEDER LINES OCCUR NEAR JOIST SUPPORTS IN ORDER TO PREVENT OVERLOADING JOISTS.
- USE TWO JOISTS TO SUPPORT LINES LARGER THAN 3 INCHES IN DIAMETER AND RUNNING PARALLEL TO STEEL JOISTS.
- IN ALL CASES, LOADS SUPPORTED FROM JOISTS AND/OR BEAMS SHALL BE APPLIED IN SUCH A MANNER SO AS NOT TO EXCEED A 3 PSF ALLOWANCE FOR SPRINKLER DEAD LOAD.
- LOCATE SUSPENDED CONCENTRATED LOADS AT JOIST PANEL POINTS WHERE POSSIBLE. SEE DETAILS FOR METHODS OF SUPPORTING CONCENTRATED LOADS FROM JOIST CHORDS LOCATED BETYMEN PANEL POINTS.

BUILDING DEFLECTIONS:

- THE BUILDING HAS BEEN DESIGNED TO COMPLY WITH APPLICABLE BUILDING CODES AND VERTICAL DEFLECTION ALLOWANCES. THE CONTRACTOR SHOULD ANTICIPATE AND CONSIDER SOME VERTICAL MOVEMENT DURING PERFORMANCE OF HIS WORK.
- ROOF BEAMS SHALL BE ASSUMED TO DEFLECT AN ANOUNT EQUAL TO THE SPAN LENGTH IN NOISES DIVIDED BY 360 (L/360), BUT NOT LESS THAN 3/8" AFTER SUPERIMPOSED LOADS ARE APPLED.

BUILDING MAINTENANCE:

1. THE SILLING OWNER SHALL SE ANASE THAT ALL BILLIAMS AND STRUCTURES REQUIRE PROFITE IN PRICED AMADETED AND THE MAKE THE MANIFEMENCE SESSORILLY HIPSTRAY FOR ALL ELEMENTS EXPOSED TO THE ATMOSPHERE OF HARSH CHEMICALS. THE OWNER SHALL ESTABLISH A MANTENANCE PROGRAM MORDER TO REVENT DAMAGE TO THE STRUCTURE WHICH WILL SHORTEN THE LIFESPAR. ROUTINE MAINTENANCE TERMS WOULD INCLUDE CLEAMING, PATHICA, PRESIDENCE MAKENING, SEALANT REPLACEMENT AND REPRAY OF AWADEN. CLEANING, PAINTING, PRESSURE W CRACKED OR SPALLED CONCRETE

VIBRATION CHARACTERISTICS OF FLOORS:

- FLOOR VIBRATION CHARACTERISTICS HAVE NOT BEEN CHECKED AS IT WAS OUTSIDE THE REQUESTED AND CONTRACTED STRUCTURAL SCOPE OF SERVICES.
- SENSITIVE EQUIPMENT TO BE LOCATED WITHIN THE STRUCTURE SHALL BE ISOLATED WITH INDIVIDUAL VIBRATION ATTENUATING SUPPORTS.
- ALL BUILDING MECHANICAL AND ELECTRICAL SYSTEM COMPONENTS LIKELY TO INDUCE OBJECTIONABLE VIBRATIONS WITHIN THE BUILDING SHALL BE ISOLATED FROM THE STRUCTURE WITH INDIVIDUAL VIBRATION ATTENUATING SUPPORTS.
- VIBRATIONS ORIGINATING BEYOND THE LINE OF THE STRUCTURE THAT MAY BE TRANSMITTED TO THE STRUCTURE THROUGH FOUNDATIONS OR GROUND FLOOR SLAB ARE BEYOND THE SCOPE OF BASIC STRUCTURAL SERVICES AND HAVE NOT BEEN CONSIDERED OR EVALUATED.

SUBMITTALS

- ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL. SUBMITTAL WITHOUT CONTRACTOR REVIEW WILL RESULT IN DELAYS. THE CONTRACTOR SHALL CONFIRM THAT SHOP DRAWINGS HAVE BEEN COMPLETED AND CHECKED BY THE SUPPLIER PRIOR TO SUBMISSION.
- CONTRACTOR IS TO PROVIDE ELECTRONIC COPIES (PDF) OF CONTRACTOR REVIEWED AND STAMPED SHOP DRAWINGS FOR AIE REVIEW AND PROCESSING.
- SHOP DRAWING SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL SPECIFICATIONS. CHANGES OR ADDITIONS MADE ON RESUBMITTED SHOP DRAWINGS SHALL BE CLEARLY INDICATED, AND THE PURPOSE OF THE RESUBMITTAL SHALL BE INTED ON THE TRANSMITTAL. REVIEW OF RESUBMITTED SHOP DRAWINGS SHALL BE LIMITED SPECIFICALLY TO THE TERM SHOTED FOR CORRECTION ON THE PREVOIDS SUBMITTAL.
- THE GENERAL CONTRACTOR SHALL SUBMIT FOR STRUCTURAL ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:

CONCRETE MIX DESIGNS
COLD FORMED STEEL FRAMING(a)
PRE-ENGINEERED METAL BUILDING (a, b, c)
REINFORCING STEEL

THE NOTATIONS FOLLOWING SUBMITTAL ITEMS INDICATE THE FOLLOWING:

- (a) CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- INCLUDE A CERTIFICATE OF COMPLIANCE WITH CONTRACT DOCUMENTS SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA RESPONSIBLE FOR THE DESIGN.
- (c) SUBMIT ONE COPY FOR INFORMATION AND RECORD ONLY.
- MANUFACTURER'S LITERATURE: SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
- THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS FOR GENERAL CONFORMACE OF THE DESIGN CONCEPT. CONTRACTOR SHALL SUBMIT A SOLEDULE OF SHOP DRAWING SUBMITTALS THAT IS ACCEPTABLE TO SHOT DOWNLOW, THAT SHALL SH
- REPRODUCTION OF THESE CONTRACT DOCUMENTS BY ANYONE FOR USE IN SHOP DRAWINGS SHALL SKINEY THEIR ACCEPTANCE OF ALL INFORMATION SHOWN AS BEING CORRECT. MILLER ENGINEERING, LLC SHALL BE INDEMNIFIED AND HELD HARMLES FROM ALL CLAIMS, DAMAGES, LOSSES, EXPENSES OR LABILITIES OF ANY KIND, INCLUDING ATTORNEYS FEES. THE CONTRACTOR IS RESPONSIBLE FOR PROPER CHECKING AND COORDINATING OF DETAILS, DIMENSIONS, SIZES AND QUANTITIES AS REQUIRED TO FACILITATE COMPLETE AND ACCURATE

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MARK A. MILLER, P.E. FLORIDA P.E. #45319

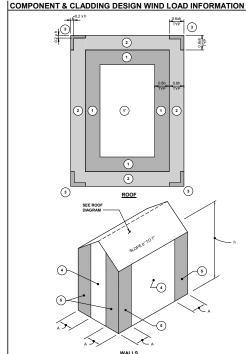
STRUCTURAL

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9/12/2024







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		ENTS & CLAD			
			ULTIMATE (FACTORE		
COMPONENT	ZONE	EFFECTIVE WIND	DESIGN PRESSURE (PSF		
COMPONENT	ZUNE	AREA (SF)	POSITIVE	NEGATIVE	
		10	+16.0	-61.6	
	(1)	20	+16,0	-57.5	
	0	50	+16.0	-52.2	
		> 100	+16.0	-48.1	
		10	+16.0	-35.4	
	(1')	20	+16.0	-35.4	
	0	50	+16.0	-35.4	
ROOF FLEMENTS		> 100	+16.0	-35.4	
NOO! LEEMENTO		10	+16.0	-81.3	
	2	20	+16.0	-76.0	
		50	+16.0	-69.1	
		> 100	+16.0	-63.9	
İ		10	+16.0	-110.7	
	3	20	+16.0	-100.3	
		50	+16.0	-86.5	
		> 100	+16.0	-76.0	
	•	10	+35.4	-38.3	
		20	+33.8	-36.8	
EXTERIOR WALL		50	+31.7	-34.7	
ELEMENTS.		100	+30.2	-33.1	
WINDOWS, DOORS		> 500	+26.5	-29.5	
AND CURTAIN		10	+35.4	-47.2	
WALLS	\sim	20	+33.8	-44.0	
	(5)	50	+31.7	-39.9	
		100	+30.2	-36.8	
		> 500	+26.5	-29.5	

NOTES:

1. DESIGN WIND PRESSURES SHALL BE USED IN THE DESIGN OF ALL
COMPONENTS AND CLADDING ELEMENTS COMPRISING THE
BUILDING ENVELOPE.

2. REFER TO THE WIND PRESSURE DIAGRAM FOR ZONE LOCATIONS
AND EXTENTS.

POSITIVE PRESSURES ACT TOWARD COMPONENT SURFACES AND NEGATIVE PRESSURES ACT AWAY FROM EACH COMPONENT SURFACE.

SURFACE.
LINEAR INTERPOLATION BETWEEN EFFECTIVE WIND AREAS MAY BE USED TO OBTAIN THE REQUIRED COMPONENT AND CLADDING DESIGN WIND PRESSURE.
DIMENSION A = 5'-0'
DIMENSION b = 12'-0'.

MULTIPLY TABULAR 'ULTIMATE' PRESSURES BY 0.60 TO OBTAIN 'NOMINAL' PRESSURES.

POLINGIFICATION OF THE PROPERTY OF THE PROPERY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY STL- STEEL 3 UCT - STRUCTURAL.

"SHORT WAY, SHEAR WALL"

SYMMETRICAL.

SOUTHERN YELLOW PINE.

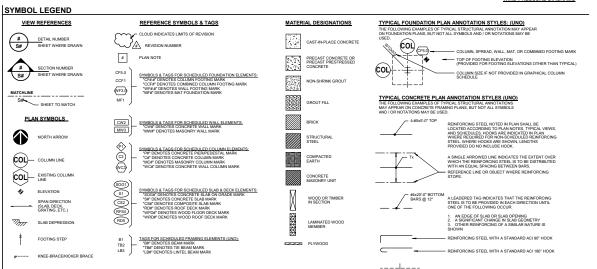
SYSTEM.

TOP & BOTTOM.

TONGUE & GROOVE.

TIE BEAM.

STEMOORADY, TEMOERATI. TB - TIE BEAM
TEMP- TEMPORARY, TEMPERATURE*
THRD: THREADED
TOC - TOP OF CONCRETE
TOF - TOP OF FOOTING
TOJ - TOP OF JOIST
TOM - TOP OF MASONRY
TOPL: TOP OF PLATE TOC. - TOP OF CONNERSE
TOC. - TOP OF CONNERSE
TOM - TOP OF MASONRY
TOM - TOP OF MASONRY
TOM - TOP OF MASONRY
TOM - TOP OF SAIL
TOS. - TOP OF SAIL
UNC - UNLESS NOTED OTHERWISE
UNC - WILLESS
TOM - TOP OF SAIL
TOWN - TOWN -(5) <u>L</u> (5) WALLS WIND PRESSURE DIAGRAMS MATERIAL DESIGNATIONS TYPICAL FOUNDATION PLAN ANNOTATION STYLES: (UNO) THE FOLLOWING EXAMPLES OF TYPICAL STRUCTURAL ANNOTATION MAY APPEAR ON FOUNDATION PLANS, BUT NOT ALL SYMBOLS AND / OR NOTATIONS MAY BE USED. CAST-IN-PLACE CONCRETE COLUMN, SPREAD, WALL, MAT, OR COMBINED FOOTING MARK





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CONCRETE FRAMING PENETRATION

Miller Engineering, LLC

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FOUNDATION & GROUND FLOOR PLAN NOTES
PLAN NOTES ARE TYPICAL FOR THIS DRAWING UNLESS SPECIFICALLY DESIGNATED OTHER

■ REFER TO DRAWING 30.1 FOR GENERAL STRUCTURAL NOTES AND STRUCTURAL
 DRAWING INDEX.

 ■ CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS
 ■ CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATION, AND CONDITIONS
 ■ RELATING TO THE DISTRICT SHALL TRUCTURE THAT MITERSFEES WITH THE NEW CONSTRUCTION
 — WARY FROM THE PROJECT CONSTRUCTION DOCUMENTS, REFER TO ARCHITECTURAL
 DRAWINGS FOR REQUIRED DEBOLLTION.

| TO | REFER TO ARCHITECTURAL DRAWNINGS FOR DIMENSIONS, DETAILS AND LOCATIONS OF INTEROR PRAITITIONS, DOORS AND WINDOWS, AND TO VERIFY DEPTH AND EXTENT OF SLAB DEPRESSIONS.

| TE | VERIFY AND COORDINATE DOE OF STRUCTURE WITH ARCHITECTURAL DRAWNINGS TO SUIT EACH TYPE OF ARCHITECTURAL PRISH.

2B CONCRETE FOUNDATIONS ARE DENOTED AND SCHEDULED BY MARK. REFER TO FOUNDATION SCHEDULES AND DETAILS FOR SPECIFIC SIZE AND REINFORCING. TYPICAL COLUMN FOUNDATIONS SHALL BE 6730, UND.

COLUMNS ARE BY PEMB DELEGATED DESIGNER. VERIFY ALL COLUMN AND ANCHOR BOLTS LOCATIONS AND SIZE WITH FINAL APPROVED PEMB SHOP DRAWINGS.

4° CONCRETE SLAB OVER VAPOR RETARDER AND COMPACTED EARTH; REINFORCE W/
6x6-W1.4xW1.4 WWF, 1 1/2° CLEAR FROM TOP OF SLAB. ELEVATION TOP OF SLAB = ♣ 0°.0°.

TYPICAL TOP OF FOOTING (TOF) IS • -0'-0" UNO.

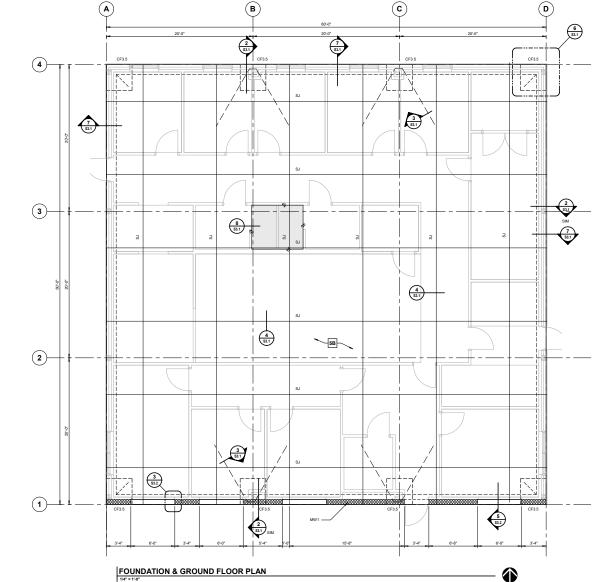
TYPICAL WALL CONSTRUCTION (UNO):

TYPICAL COLUMN CONSTRUCTION (UNO):

TYPICAL FLOOR SLAB CONSTRUCTION (UNO):

5A TYPICAL TOP OF SLAB (TOSL) IS � 0'-0", UNO.

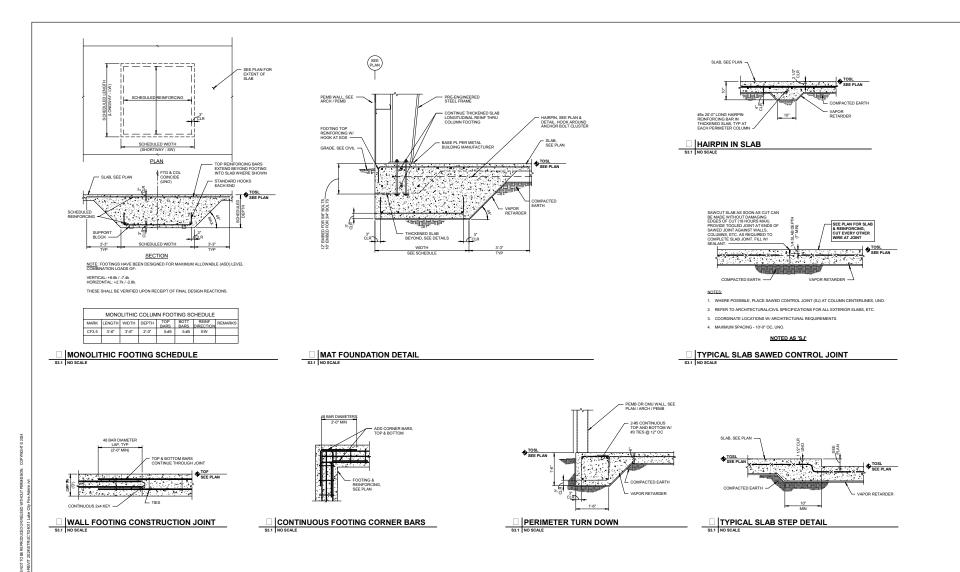
GENERAL INFORMATION:





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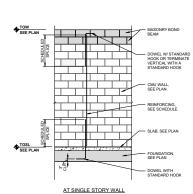
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Revision

FOUNDATION SECTIONS & DETAILS ON SECTIONS ON SECTIONS ON STRUCTION DOCUMENTS

S3.1



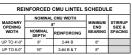
TYPICAL CMU WALL VERTICAL REINFORCING

NOTES:

- 1. REFER TO PLANS AND SCHEDULES FOR SIZE, NUMBER AND LOCATION OF VERTICAL REINFORCING.
- 2 OF EANLOUTS AND HID NOT SHOWN BUT ARE RECUIRED SEE SPECIFICATIONS

DIAGRAMMATIC MASONRY WALL CONSTRUCTION ELEVATIONS
832 NO SCALE

TYPICAL WINDOW OPENING IN CMU WALL (DOOR SIMILAR)



(CMU LINTEL S	SCHEDUL	.E	
	CMU WIDTH		MINIMUM CTIDDUD	
8 MINAL			SIZE &	ID SIZE &
TH	REINFORCING	BEARING	SPACING	
3"	2-#4 B	8"		
6"	2-#4 B & T	8"		

REINFORCED CMU LINTEL SCHEDULE NOTES:

- 1. MASONRY DIMENSIONS INDICATED ARE NOMINAL RATHER THAN ACTUAL DIMENSIONS
- 2. MINIMUM MASONRY STRENGTH fm SHALL BE 2000 PSI (UNLESS NOTED OTHERWISE). GROUT FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS OR MEET ASTM C476.
- SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS IN MASONRY WALLS REQUIRING LINTELS.
- HORIZONTAL WALL RENFORCING SHALL CONTINUE THROUGH MASONRY LINTELS.
 WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING WOULD
 OCCUR IN THE SAME COURSE, THE LARGER BARS SHALL BE USED.
- EXTEND VERTICAL REINFORCING THROUGH LINTEL AT BEARINGS WHERE END VERTICAL CELL IS REINFORCED.
- 8. FOR WALL ABOVE LINTEL, DOWEL VERTICAL REINFORCING INTO FULL DEPTH OF THE LINTEL AND HOOK OR LAP 48 BAR DIAMETERS, WHICHEVER IS LESS.
- HORIZONTAL JOINT REINFORCING:
 A PROVIDE STANDARD LADDER REINFORCING AT 16" OC IN LINTEL SPANS UP TO 6".
- 10. FOR CONTINUOUS LINTEL REINFORCING WHERE SPLICES ARE REQUIRED, SPLICE TOP BARS AT MID-SPAN OF OPENINGS AND BOTTOM BARS AT PIERS OR SUPPORT LOCATIONS
- 12. TYPICAL LINTELS SHOWN ARE TO BE USED WHERE NO SPECIFIC LINTEL OR CAST-IN-PLACE CONCRETE BEAM HAS BEEN DETAILED AND ARE FOR SUPPORT OF WALL LOADS ONLY (UND).



8F8.0R/0T 8F8.1R/0T 8F8.1R/1T 8F16.1R/1T

- BOND BEAM

EXAMPLES FOR 8" CMU

DETAIL







F = FILLED WITH GROUT / U = UNFILLED / S = SOLID
QUANTITY OF #5 FIELD
ADDED REINFORCING AT
BOTTOM OF UNTEL CAVITY 8F16-1B/1T

NOTE: LINTELS SHALL BE "CAST-CRETE" OR APPROVED EQUAL.

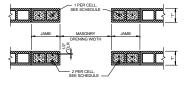
REINFORCED CONCRETE MASONRY UNIT (CMU) LINTELS

PRECAST CONCRETE LINTELS

8" LINTEL SCHEDULE & DETAILS

DETAILS

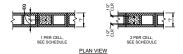
SCHEDULED TOP



PLAN VIEW

JAMB REINFORCING SCHEDULE			
MASONRY	NUMBER OF F	NUMBER OF REINFORCED CELLS PER JAMB	
OPENING WIDTH	WALL THICKNESS 'T'	OPENING IN EXTERIOR WALL	SPLICE LENGTH
UP TO 4'-0"	8"	1-#5 PER CELL IN 2 CELLS	30*
UP TO 6'-0"	8"	1-#5 PER CELL IN 3 CELLS	30*

JAMB REINFORCING SCHEDULE & DETAIL

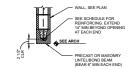


NOTES:

- 1. VESTICAL RESIDENCE AS SALL SUN FROM FOOTHER TO " CLEAR FROM TOO OF UPSEMBEST SUPPORTED SOME MICEOFE BLAND OF DESIDENCE HE SALE OF SERVICE HOWER OF SALE OF
- 2. SEE TYPICAL DETAILS AND CODE REQUIREMENTS FOR CLEAN-OUTS.
- 3. SEE SEPARATE DETAILS / SCHEDULES FOR JAMB AND PIER REINFORCING.

4.	SEE DIAGRAMMATIC MASONRY WALL ELEVATIONS FOR ADDITIONAL INFORMATION	
		_

WALL REINFORCING SCHEDULE						
WALL TYPE	WALL THICKNESS 'T'	REINFORCING	MAXIMUM SPACING OC	SPLICE LENGTH	REMARKS	
MW1	8*	1-#5	48*	30"	TYP EXTERIOR UNO	



TYPICAL WALL REINFORCING WITH 1 BAR OR 2 BARS PER FILLED CELL

MASONRY WALL REINFORCING SCHEDULES & DETAILS
83.2 NO SCALE

☐ TYPICAL WINDOW/DOOR HEAD DETAIL





2338

S3.2

JAMB REINFORCING SCHEDULE & DETAIL

\$1.2 NO SCALE