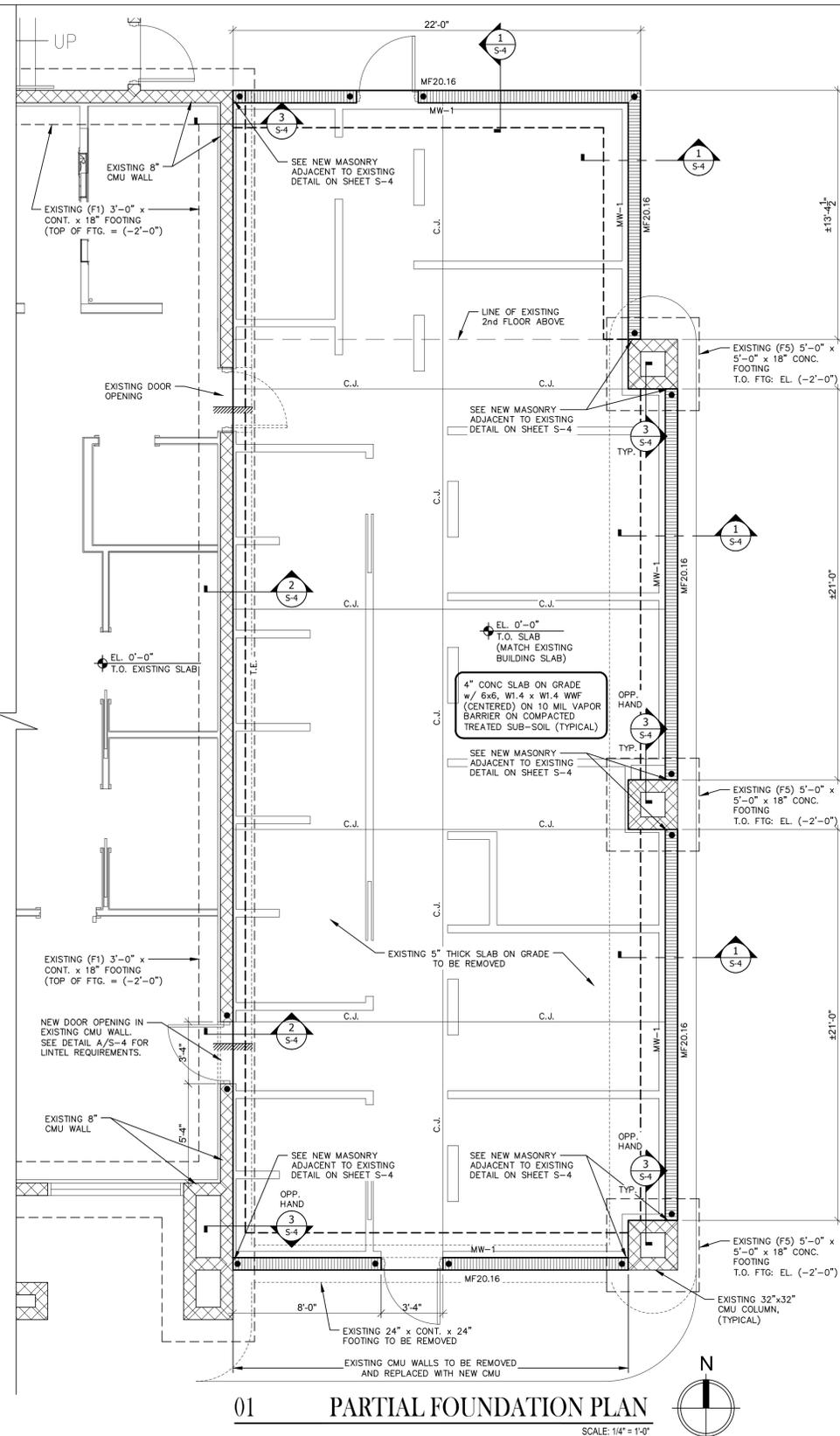
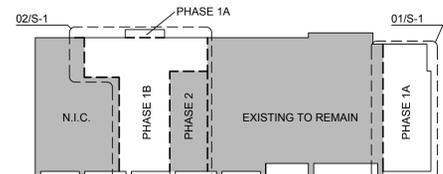


02 PARTIAL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



01 PARTIAL FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

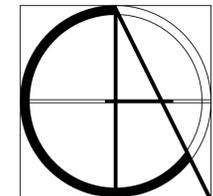


KEY PLAN
SCALE: N.T.S.



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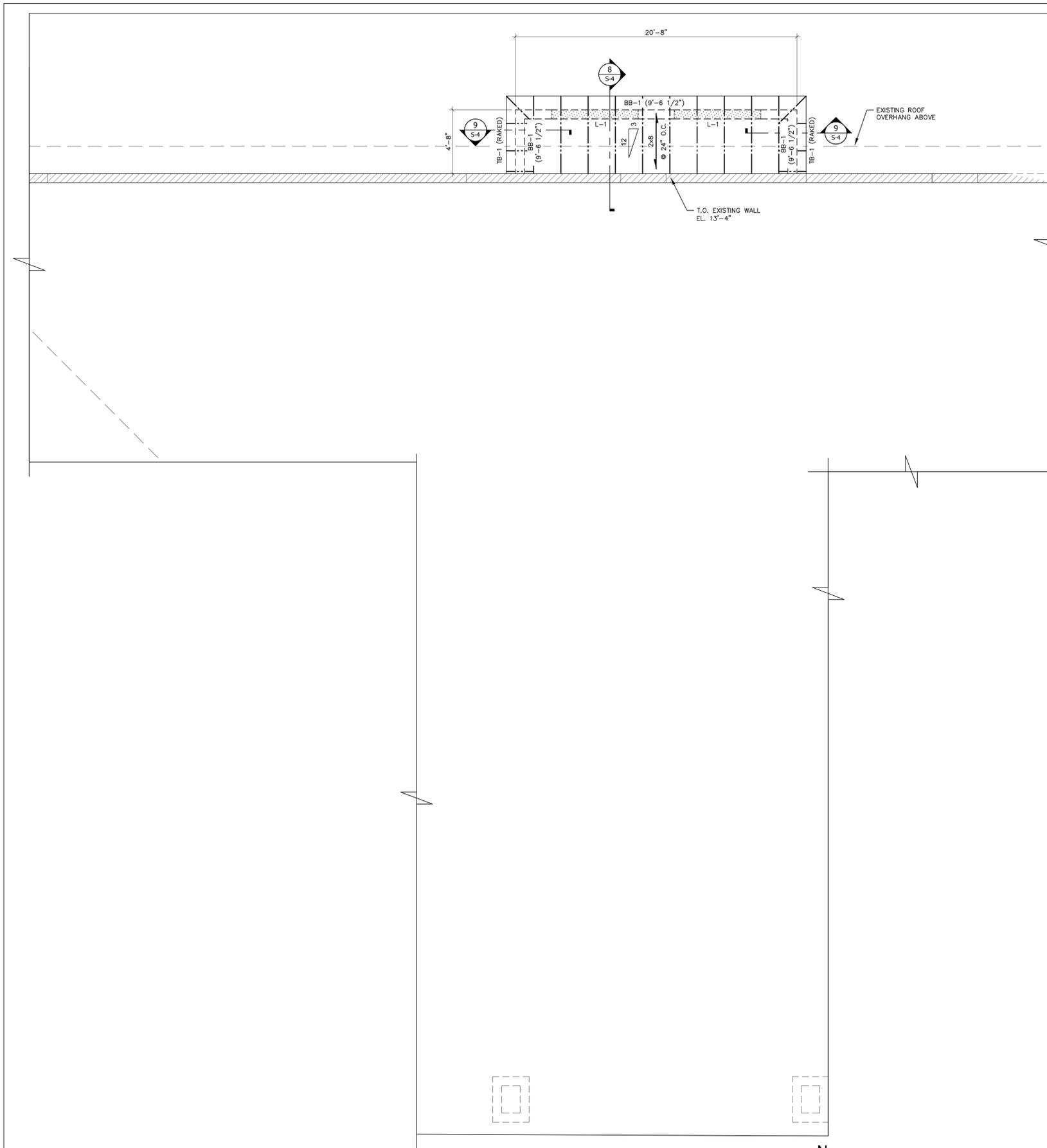
Claren Architecture + Design, Inc.
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Addition & Renovation for:
Great Smile Dental
Phase 1A
155 SW Port St. Lucie Blvd.
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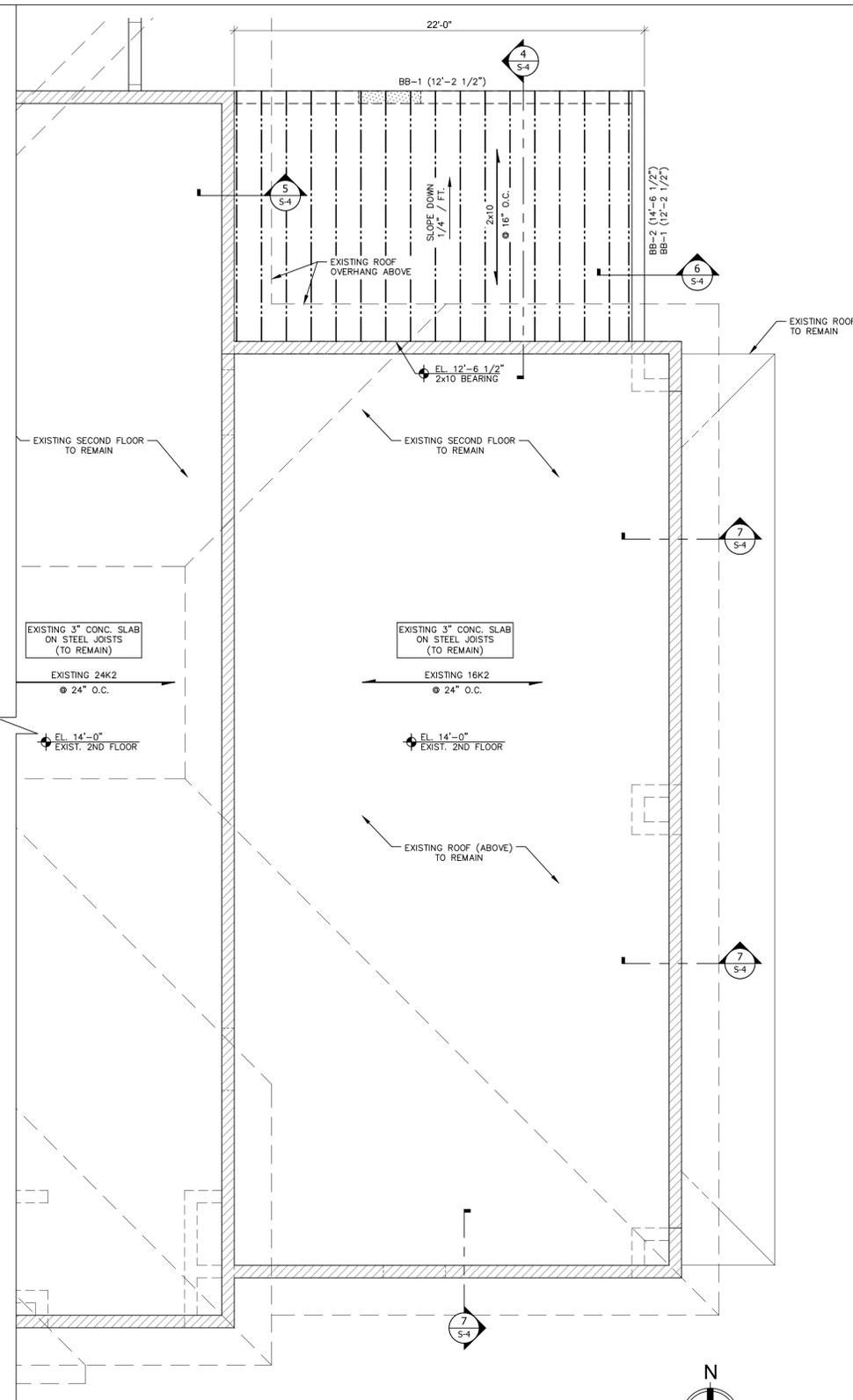


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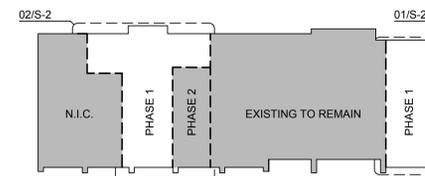
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02 PARTIAL ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



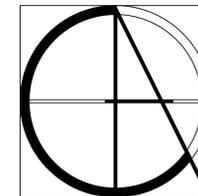
01 PARTIAL ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN
SCALE: N.T.S.

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STRUCTURAL NOTES

CONTRACTOR NOTE:

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. WIEDER ENGINEERING, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR FOR RELATED SAFETY PRECAUTIONS AND PROGRAMS.

CODES AND STANDARDS

1. WIND LOADS ARE PER ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, FOR A 170 MPH ULT. WIND SPEED (132 MPH NOMINAL WIND SPEED), EXPOSURE C, ENCLOSED BUILDING (+/-0.18 INTERNAL PRESSURE COEFFICIENT) AND RISK CATEGORY II

2. THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE:
 A. FLORIDA BUILDING CODE 7TH EDITION (2020)
 B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)
 C. SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301)
 D. MANUAL OF PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)
 E. NATIONAL DESIGN SPECIFICATION, WOOD CONSTRUCTION NDS (CURRENT EDITION)
 F. BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530, 530.1/ASCE 5, 6/TMS 402, 602)

3. THE STRUCTURAL DRAWINGS ARE PART OF THE CONTRACT DOCUMENTS AND DO NOT BY THEMSELVES PROVIDE ALL THE INFORMATION REQUIRED TO PROPERLY COMPLETE THE PROJECT STRUCTURE. THE GENERAL CONTRACTOR SHALL CONSULT THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS WITH THE STRUCTURAL DRAWINGS TO PROPERLY CONSTRUCT THE PROJECT.

4. REFER TO ARCHITECTURAL, MECHANICAL OR ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS SETTINGS, DRAINS, REGLETS, ETC.

5. BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT.

6. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS BY THE CONTRACTOR BEFORE PROCEEDING WITH THE CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING BEFORE PROCEEDING WITH ANY WORK.

7. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE SHOWN.

WINDOW AND DOOR ASSEMBLY TEST AS FOLLOWS:

- A. EXTERIOR WINDOWS AND GLASS DOORS SHALL BE TESTED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AND SHALL BE LABELED WITH AN APPROVED LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT CERTIFICATION AGENCY, TESTING LABORATORY, EVALUATION ENTITY OR MIAMI-DADE NOTICE OF ACCEPTANCE TO INDICATE COMPLIANCE WITH THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS: ANSIAAAM/NWDA 1011.5.2 OR TAS 202
- B. EXTERIOR DOOR ASSEMBLIES SHALL BE TESTED FOR STRUCTURAL INTEGRITY IN ACCORDANCE WITH ASTM E530 AT A LOAD OF 1.5 TIMES THE REQUIRED DESIGN PRESSURE LOAD. THE LOAD SHALL BE SUSTAINED FOR 10 SECONDS WITH NO PERMANENT DEFORMATION OF ANY MAIN FRAME OR PANEL MEMBER IN EXCESS OF 0.4 PERCENT OF ITS SPAN AFTER THE LOAD IS REMOVED AND SHALL COMPLY WITH TAS 202. AFTER EACH SPECIFIED LOADING, THERE SHALL BE NO GLASS BREAKAGE, PERMANENT DAMAGE TO FASTENERS, HARDWARE PARTS, OR ANY OTHER DAMAGE, WHICH CAUSES THE DOOR TO BE INOPERABLE.
- C. WINDOW AND DOOR ASSEMBLIES SHALL BE ANCHORED IN ACCORDANCE WITH THE PUBLISHED MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE DESIGN PRESSURE SPECIFIED. SUBSTITUTE ANCHORING SYSTEM USED FOR SUBSTRATES NOT SPECIFIED BY THE PENETRATION MANUFACTURER SHALL PROVIDE EQUAL OR GREATER ANCHORING PERFORMANCE AS DEMONSTRATED BY ACCEPTED ENGINEERING PRACTICE.

SPECIALTY ENGINEERED PRODUCTS

1. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PROPER SUBMISSION OF SPECIALTY ENGINEERED SHOP DRAWINGS WHICH SHALL BE SIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THE SPECIALTY ENGINEERED SHOP DRAWINGS ARE SUBMITTED IN A TIMELY MANNER SO AS TO ALLOW REVIEWS AND RESUBMISSIONS AS REQUIRED. ALL SPECIALTY ENGINEERED PRODUCTS SHALL BE DESIGNED FOR THE APPROPRIATE GRAVITY LOADS AND WIND LOADS INCLUDING UPLIFT AND LATERAL LOADS. INTERIOR SPECIALTY PRODUCTS SHALL BE DESIGNED FOR LATERAL LOADS TO ASSURE STABILITY. SPECIALTY ENGINEERED PRODUCTS SHALL BE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - A. LIGHT GAUGE METAL INCLUDING, BUT NOT LIMITED TO, SOFFITS, CLADDING, CEILINGS, ETC.
 - B. MISCELLANEOUS METALS INCLUDING MECHANICAL EQUIPMENT SUPPORTS, FRAMES THAT SUPPORT PIPES OR OTHER STRUCTURAL METAL USED FOR SUPPORT OF MECHANICAL SYSTEMS.

FOUNDATION

1. ALL SITE PREPARATION AND EXCAVATION WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS ON SOILS AND FOUNDATIONS INVESTIGATION PREPARED BY AN APPROVED TESTING LABORATORY PRIOR TO FOUNDATION WORK.
2. BOTTOM OF FOOTINGS ASSUMED TO BEAR ON SOIL CAPABLE OF SAFELY SUPPORTING 2500 PSF
3. SOILS SUPPORTING ALL FOOTINGS MUST BE INSPECTED AND APPROVED BY A REGISTERED SOILS ENGINEER BEFORE COMMENCING WORK. APPROVAL IN WRITING MUST INDICATE THE SOIL IS ADEQUATE TO SAFELY SUSTAIN SPECIFIED SOIL BEARING PRESSURE.
4. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 12 INCHES BELOW EXTERIOR FINISH GRADE.
5. ALL EXCAVATION SHALL BE KEPT DRY. EXCAVATE TO DEPTHS AND DIMENSIONS INDICATED. TAKE EVERY PRECAUTION TO GUARD AGAINST ANY MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES, UTILITIES, PIPING, ETC.
6. PROVIDE ANY BRACING OR SHORING NECESSARY TO AVOID SETTLEMENT OR DISPLACEMENT OF EXISTING FOUNDATION OR STRUCTURES.

CONCRETE

1. ALL CONCRETE SHALL BE READY MIX AND MEET THE FOLLOWING REQUIREMENTS:
 - A. A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS
 - B. SLUMPS SHALL BE +/- 5 INCHES +/- ONE INCH
 - C. CONCRETE SHALL HAVE 3.6% +/- 1.5% AIR ENTRAINMENT
 - D. ALL CONCRETE TO HAVE MAXIMUM WATER/CEMENT RATIO OF 0.55
 - E. JOBSITE WATER SHALL NOT BE ADDED
2. FLY ASH SHALL BE LIMITED TO A MAXIMUM OF 25% OF THE CEMENTICIOUS MATERIAL AND SLAG SHALL BE LIMITED TO 40% IN ANY CONCRETE MIX AND SHALL NOT BE USED TOGETHER.
3. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS REQUIRED BY ACI SPECIFICATIONS.
4. LAP ALL BARS PER ACI MINIMUM REQUIREMENTS FOR TENSION LAP SPlice BUT NOT LESS THAN 48 BAR DIAMETERS. LAP ALL WWF A MINIMUM OF 12 INCHES
5. ALL HOOKS SHOWN IN STEEL REINFORCING BARS SHALL BE PER ACI RECOMMENDATIONS (NOT LESS THAN 12 BAR DIAMETERS PAST BEND) UNO
6. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185. PLACE FABRIC 2" CLEAR FROM TOP OF THE SLAB IN SLAB ON GRADE AND SUPPORT ON SLAB BOLSTERS SPACED AT 3'-0" O.C.
7. ALL REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60.
8. AT CORNERS OF CONCRETE BEAMS, TIE BEAMS, BOND BEAMS AND CONTINUOUS MONO-FOOTINGS, PROVIDE (1) #5 x 4'-0" BENT BAR FOR EACH HORIZONTAL BAR SCHEDULED AT EACH FACE.
9. CONCRETE LINTELS:
 - A. ALL LINTELS SHALL BE PRE-ENGINEERED PERCAST TYPE BY CASTCRETE (OR EQUAL) UNO OR AS NOTED BELOW. NO PRE-ENGINEERED PERCAST LINTEL SHALL BE LESS THAN 8" W/ (1) #5 BOTTOM
 - B. LINTEL SHALL BE CAST IN PLACE BEAM WHEN IMMEDIATELY ADJACENT TO CAST IN PLACE CONCRETE COLUMN. MINIMUM LINTEL SHALL BE 8x10 WITH (2) #5 TOP AND BOTTOM W/ #3 STIRRUPS AT 4" ON CENTER UNO
 - C. DROP BOTTOM OF BEAM AT WINDOWS, DOORS AND MASONRY OPENINGS AS REQUIRED PROVIDING A CONCRETE CLOSURE BETWEEN THE BOTTOM OF THE BEAM AND WINDOW AND/OR DOOR HEADER SHALL BE ALLOWED.
 - D. MAXIMUM DROP SHALL BE 16" (TWO BLOCK COURSES) AND SPAN EQUAL TO MASONRY OPENING WIDTH PLUS 8" EACH SIDE. PROVIDE ADDITIONAL (2) #5 AT BOTTOM OF DROP INCLUDING #3 TIES @ 24" O.C. EXTENDING TO TOP OF BEAM REINFORCING. IF THE LINTEL DROP EXCEEDS THE ABOVE LIMIT, A SEPARATED LINTEL SHALL BE PROVIDED
 - E. LINTELS TO HAVE 8" MINIMUM BEARING AT EACH END.

MASONRY

1. MASONRY UNITS SHALL BE, LOAD BEARING ASTM C90, NORMAL WEIGHT AND SHALL BE LAID IN A FULL BED OF MORTAR IN RUNNING BOND (UNO)
2. THE COMPRESSIVE STRENGTH OF MASONRY (F_m) SHALL BE 1,500 PSI AS CALCULATED IN ACCORDANCE WITH ASTM C1314
3. ALL MORTAR SHALL BE TYPE M OR S ONLY, IN ACCORDANCE WITH ASTM C270
4. GROUT SHALL BE A HIGH SLUMP MIX IN ACCORDANCE WITH ASTM C476 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI
5. PROVIDE 8" x 8" MASONRY BEAM WITH (2) #5 CONT. AT EVERY WINDOW SILL. EXTEND BEAM 8" BEYOND EDGE OF OPENING AND HOOK INTO REINFORCED JAMBS
6. PROVIDE HOT DIPPED GALVANIZED LADDER TYPE HORIZONTAL JOINT REINFORCEMENT (Ø 6A) AT 16" ON CENTER VERTICAL IN ALL MASONRY WALLS. PROVIDE DOVE TAIL SLOT ANCHORS AT CONCRETE COLUMNS.

WOOD

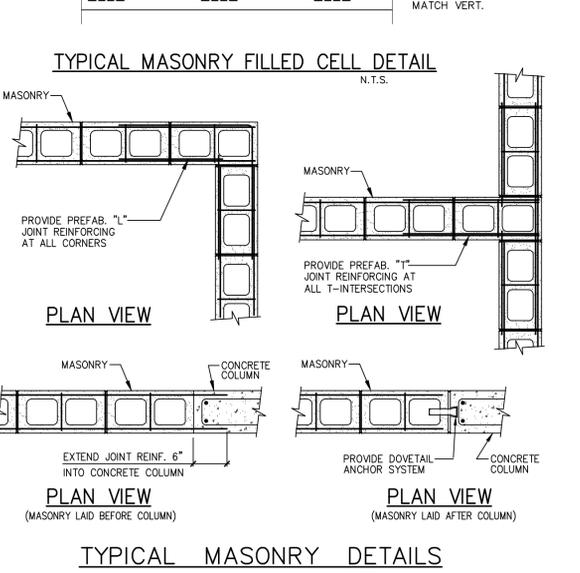
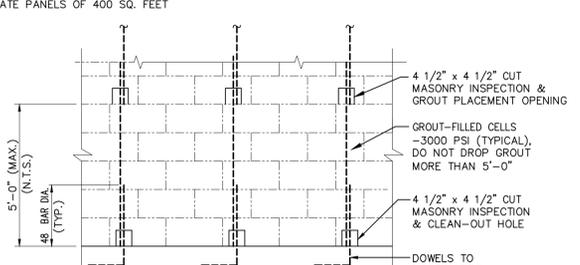
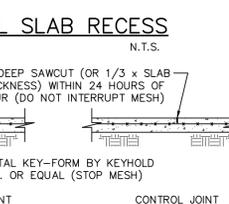
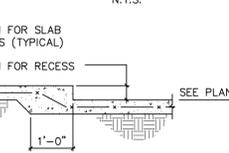
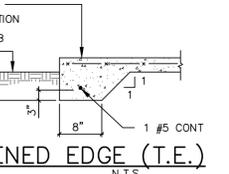
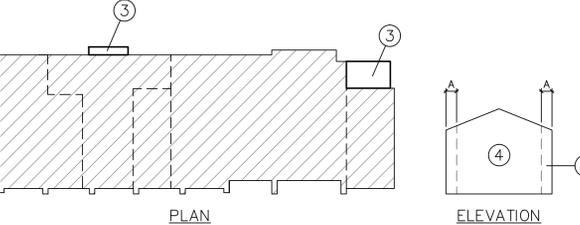
1. ALL STRUCTURAL WOOD MEMBERS ARE DESIGNED AS "DRY-USE". MOISTURE CONTENT MUST BE 19% OR LESS. STORE WOOD FRAMING ABOVE GROUND AND UNDER TARPS WITH PROPER AIR CIRCULATION.
2. ALL LUMBER SHALL BE SOUTHERN PINE SPECIES #2 GRADE OR APPROVED EQUAL. ALLOWABLE DESIGN STRESSES SHALL FOLLOW NATIONAL DESIGN SPECIFICATION (NDS) (LATEST EDITION).
3. PROVIDE SP ACQ PRESSURE TREATED LUMBER IN ACCORDANCE WITH AWPA STANDARDS TO A MINIMUM 0.40 PCF RETENTION WHERE LUMBER IS IN CONTACT WITH CONCRETE/MASONRY OR OUTSIDE OF BUILDING. ALL METAL CONNECTORS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED WITH A RATING OF S-185 AND CONFORM TO ASTM A653. ALL NAILS AND SCREWS USED WITH PRESSURE TREATED LUMBER ARE TO BE HOT-DIPPED GALVANIZED AND TO CONFORM TO ASTM A153 CLASS D. ELECTROGALVANIZED FASTENERS SHALL HAVE A CLASS RATING PER ASTM B695 NO LESS THAN 55. ALUMINUM NOT TO BE USED IN DIRECT CONTACT WITH ACQ TREATED LUMBER.
4. PLYWOOD SHEATHING:
 - A. USE 19/32" APA 40/20 RATED, EXP. 1, PLYWOOD SHEATHING.
 - B. USE 8'-0" LONG X 4'-0" WIDE SHEETS WITH LENGTH ACROSS FRAMING. STAGGER PANEL END JOINTS 4'-0" TYP., ALLOW 1/8" SPACE ALONG PANEL EDGES AND END JOINTS.
5. WOOD CONNECTIONS - ALL NAILS USED FOR STRUCTURAL FRAMING MEMBERS SHALL BE COMMON WIRE, U.N.O. ALL NAILS, TRUSS HANGERS, TRUSS ANCHORS AND STRAPS SHALL BE GALVANIZED FOR CORROSION RESISTANCE. ALL METAL STRAPS MUST BE INSTALLED WITH EQUAL LENGTHS ABOUT THE JOINT LINE. USE SIMPSON STRONG-TIE CONNECTOR PRODUCTS OR APPROVED EQUAL. TOE NAILING WILL NOT BE PERMITTED.

SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE SUBMITTED IN COMPLETE PACKAGES FOR THE FOLLOWING:
 - A. CONCRETE MIX DESIGNS
 - B. CONCRETE REINFORCING STEEL AND WELDED WIRE FABRIC
 - C. PRE-ENGINEERED PERCAST CONCRETE PRECAST LINTELS AND SILLS
 - D. CONCRETE MASONRY UNIT SUBMITTALS AND OTHER MASONRY ACCESSORIES
2. PRE-ENGINEERED ITEMS SHALL BE SUBMITTED SIGNED AND SEALED BY A SPECIALTY ENGINEER REGISTERED IN THE STATE OF FLORIDA

WIND LOAD SCHEDULE (ASD)					
COMPONENTS & CLADDING	ROOF WIND LOADS			WALL WIND LOADS (SEE NOTE 1)	
	ROOF AREA			WALL AREA	
	1	2	3	4	5
PRESSURE (PSF)	+32.8	+32.8	+32.8	+44.0	+44.0
SUCTION (PSF)	-59.0	-81.4	-81.4	-47.8	-59.0

1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 7th EDITION FBC 2020 BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.
2. CORNER DISTANCE, A = 7.2 FEET, 10 S.F. MRH = 31 FT.



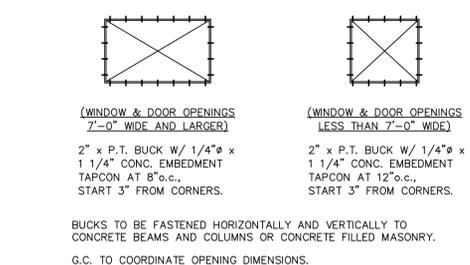
BEAM SCHEDULE							
MARK	SIZE WxH (inches)	REINFORCING			STIRRUPS		REMARKS
		BOTT	TOP	INT	TIES	SPACING	
BB-1	8 x 16	1 #5	1 #5	-	-	-	CMU
BB-2	8 x 8	-	-	1 #5	-	-	CMU
TB-1	8 x 8	-	-	1 #5	-	-	CONC.
L-1	8x8	1 #5	-	-	-	-	PERCAST LINTEL BY CASTCRETE

FOOTING SCHEDULE			
MARK	SIZE (W x L x D)	REINFORCING	REMARKS
MF20.16	2'-0" x CONT. x 16"	(3) #5 CONT. BOTT. & #5 @ 24" O.C. TRANSV. BOTT.	MONOLITHIC W/ SLAB
MF18.16	1'-6" x CONT. x 16"	(2) #5 CONT. BOTT. & #5 @ 24" O.C. TRANSV. BOTT.	MONOLITHIC W/ SLAB
T.E.	8" x CONT. x 8"	(1) #5 CONT. BOTT.	THICKENED SLAB EDGE

MASONRY WALL SCHEDULE		
MARK	THICKNESS	REINFORCING
MW-1	8" CMU	#5 @ 24" O.C.

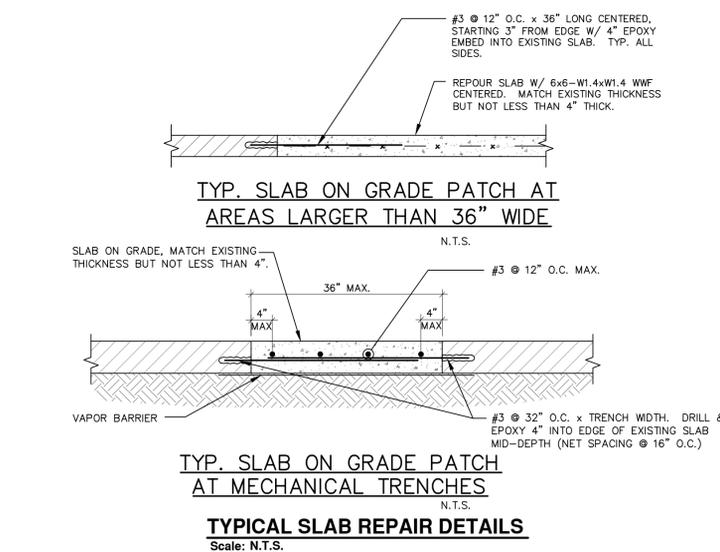
MASONRY WALL NOTES:
 1. WALL SEGMENTS SHALL BE REINFORCED WITH 9 GA. GALVANIZED LATERAL REINFORCING @ 16" O.C. HORIZ. EXTEND REINFORCING 6" INTO POURED ELEMENTS AND AROUND ENCASED STEEL.
 2. ADJACENT TO ANY EXTERIOR WALL OPENING AND AT CORNERS & WALL INTERSECTIONS, PLACE (1) SCHEDULED VERTICAL REINFORCING IN CELL. GROUTED SOLID, FULL HEIGHT, U.N.O.
 3. ALL MASONRY REINFORCED CELLS SHALL BE FILLED WITH 2500 PSI GROUT MIX.

CONCRETE COVER SCHEDULE	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	2"
#5 OR LARGER	2"
#5 OR SMALLER	1 1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS (#11 AND SMALLER)	3/4"
BEAMS, COLUMNS (PRIMARY REINF., TIES, STIRRUPS, SPIRALS)	1 1/2"
WALLS & SLABS	2"
CONCRETE FOR COASTAL CONSTRUCTION EXTERIOR CONDITIONS	2"
OTHER MEMBERS	2 1/2"

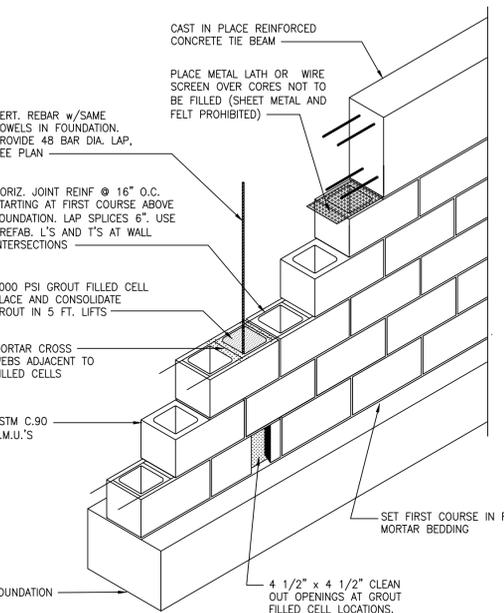


TYPICAL WOOD BUCK TO CONCRETE OR GROUT FILLED MASONRY CONNECTION DETAIL

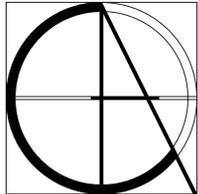
1. EXTERIOR GLAZED OPENINGS IN BUILDINGS SHALL COMPLY WITH 7th EDITION 2020 FLORIDA BUILDING CODE BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS.



TYPICAL SLAB ON GRADE PATCH AT MECHANICAL TRENCHES
 Scale: N.T.S.



TYPICAL MASONRY WALL CONSTRUCTION
 N.T.S.



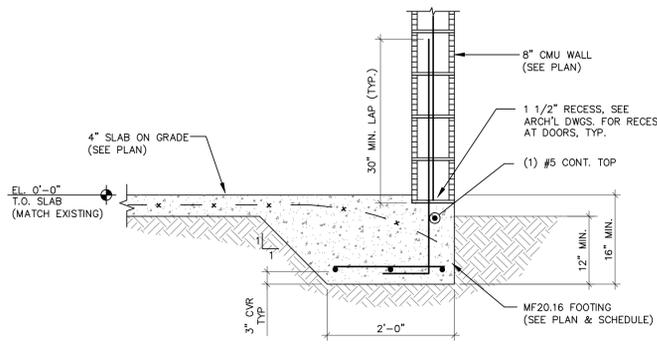
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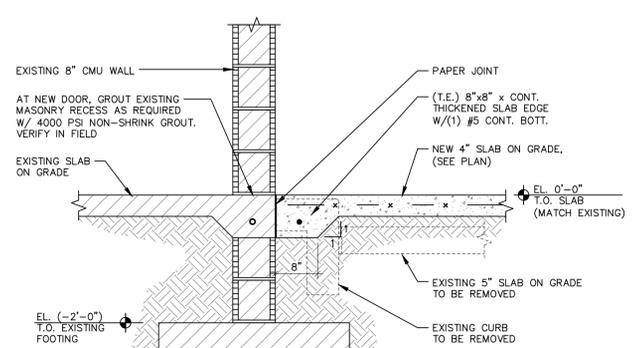


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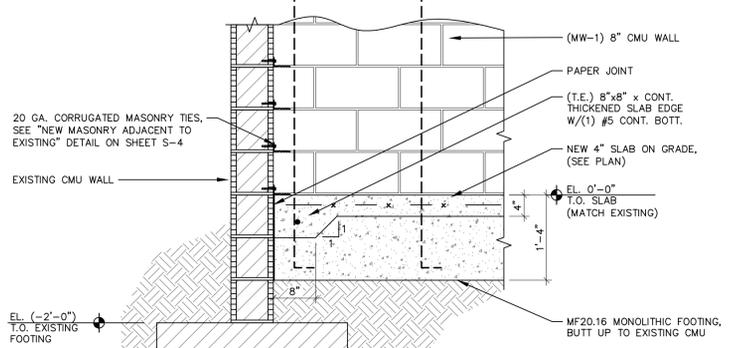
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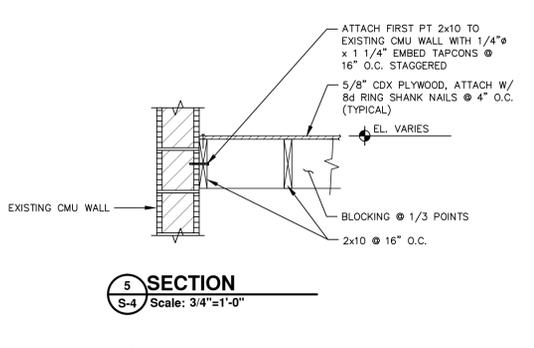
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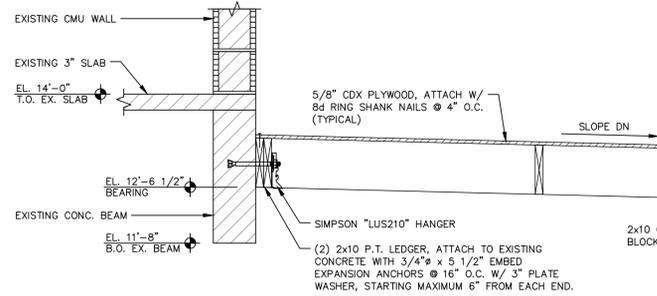
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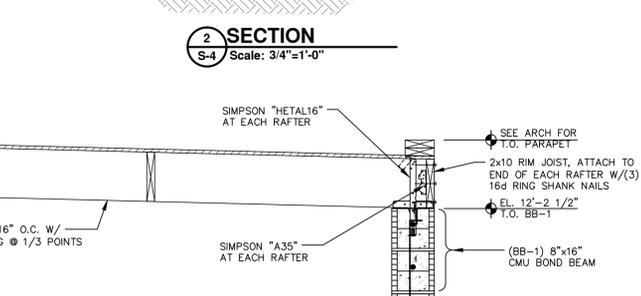
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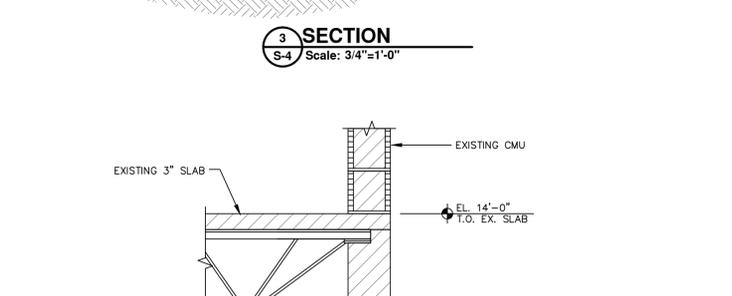
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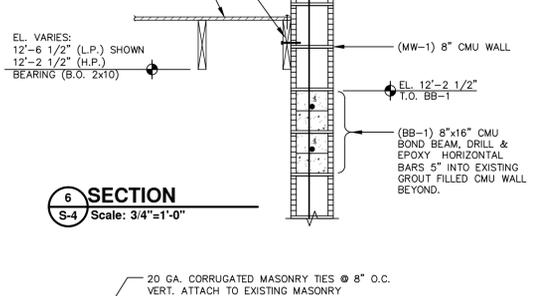
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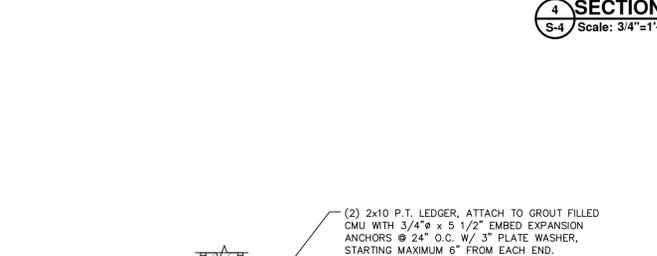
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S-4 Scale: 3/4"=1'-0"



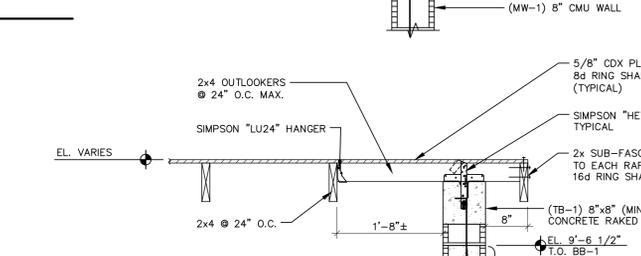
7 SECTION
S-4 Scale: 3/4"=1'-0"



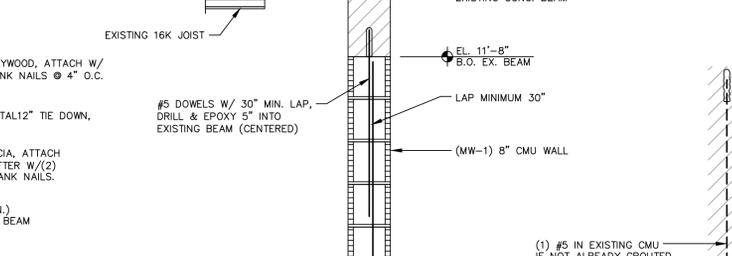
8 SECTION
S-4 Scale: 3/4"=1'-0"



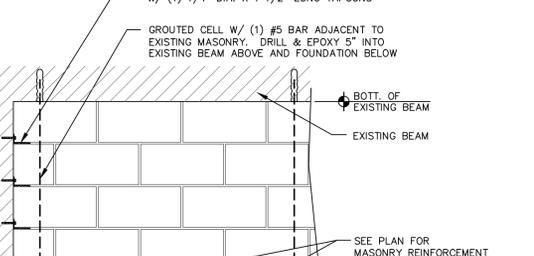
9 SECTION
S-4 Scale: 3/4"=1'-0"



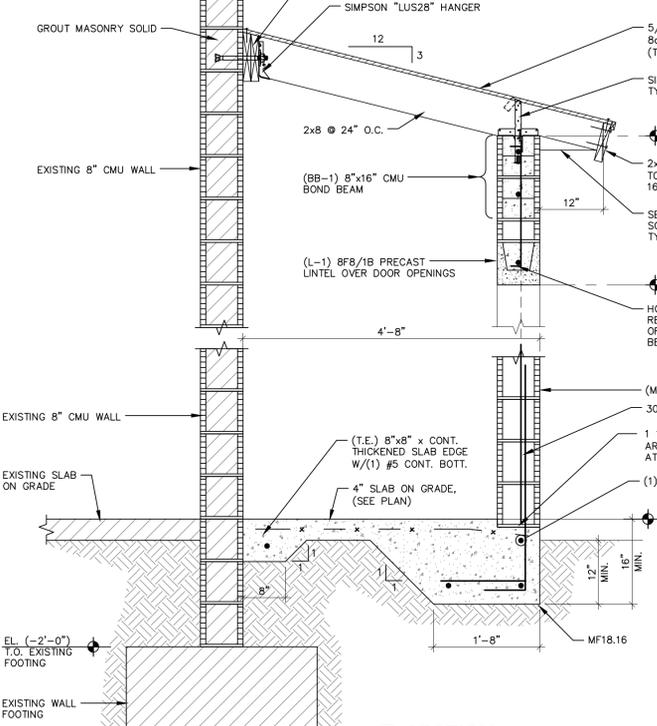
10 SECTION
S-4 Scale: 3/4"=1'-0"



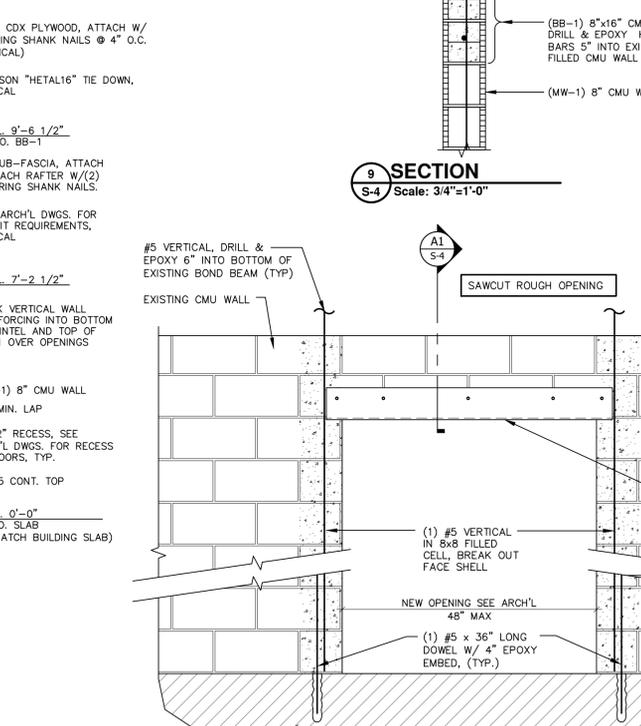
11 SECTION
S-4 Scale: 3/4"=1'-0"



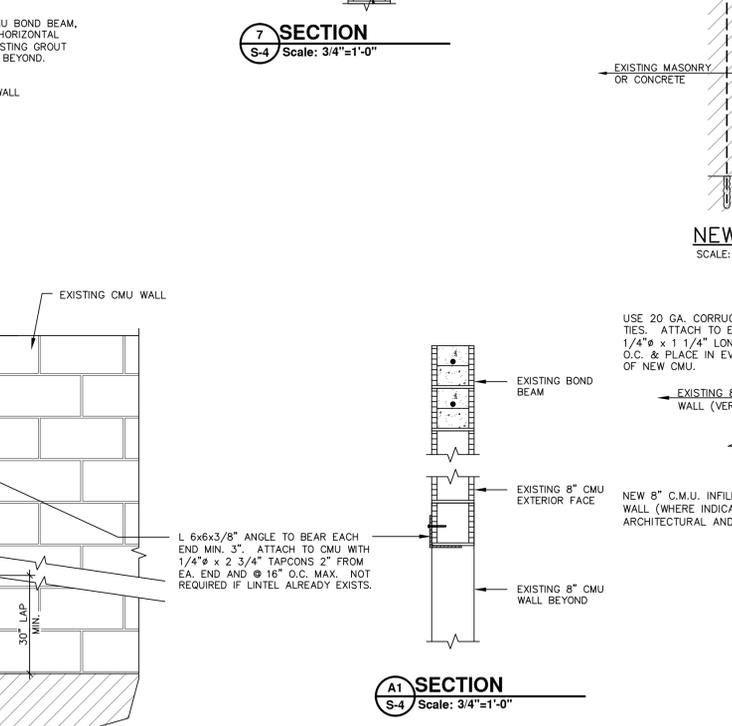
12 SECTION
S-4 Scale: 3/4"=1'-0"



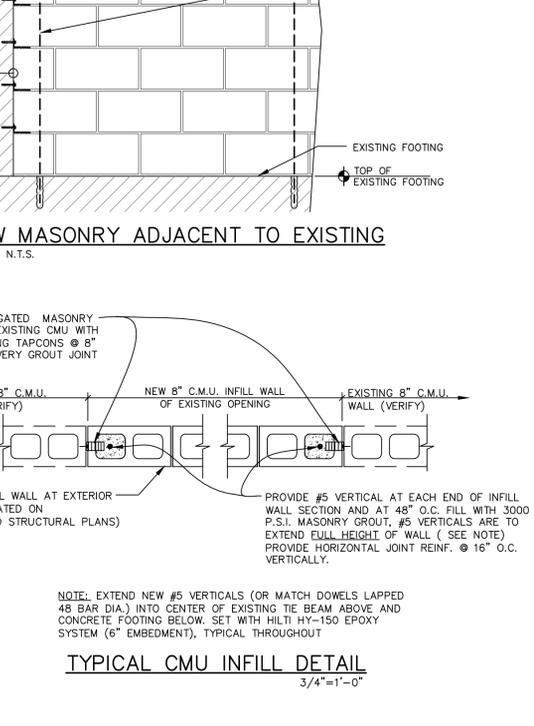
8 SECTION
S-4 Scale: 3/4"=1'-0"



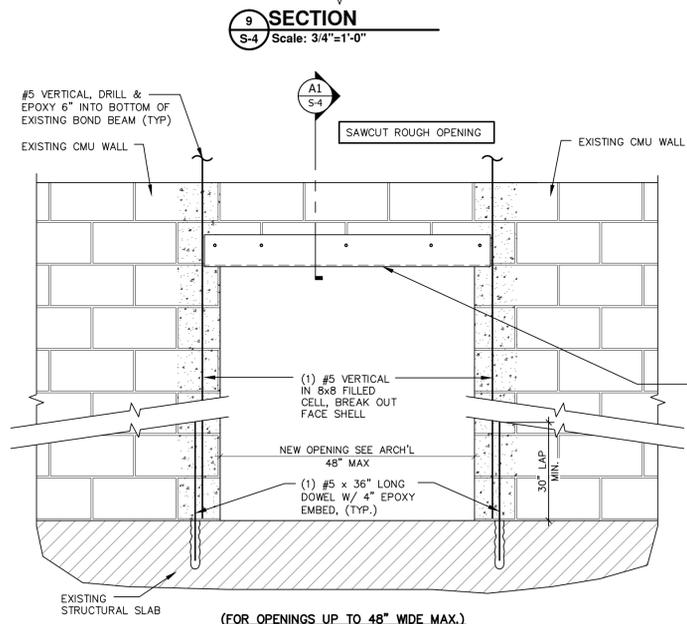
9 SECTION
S-4 Scale: 3/4"=1'-0"



10 SECTION
S-4 Scale: 3/4"=1'-0"

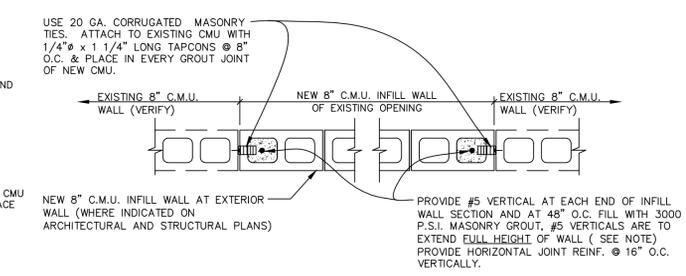


11 SECTION
S-4 Scale: 3/4"=1'-0"

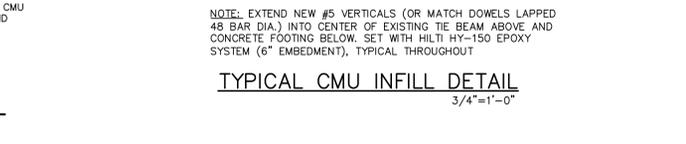


A SECTION
S-4 Scale: N.T.S.

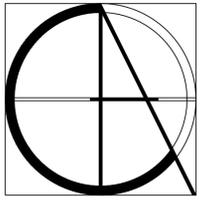
NEW MASONRY ADJACENT TO EXISTING
SCALE: N.T.S.



12 SECTION
S-4 Scale: 3/4"=1'-0"



13 SECTION
S-4 Scale: 3/4"=1'-0"



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Port St. Lucie, FL 34984



PROJECT #	20-033
DATE	11-16-2021
REV #	DATE
SHEET #	

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S-4