

STRUCTURAL

STRUCTURAL GENERAL NOTES (NOTES APPLY TO ALL STRUCTURAL DRAWINGS)

GENERAL NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL APPLICABLE CODES AND REGULATIONS. APPROPRIATE SAFETY MEASURES SATISFYING LOCAL AND OSHA REQUIREMENTS SHALL BE PROVIDED.

PROPER TEMPORARY BRACING OF ALL CONSTRUCTION WORK IN PROGRESS IS THE CONTRACTOR'S RESPONSIBILITY.

IF DURING DEMOLITION EXISTING CONDITIONS DO NOT AGREE WITH INFORMATION SHOWN ON THE DESIGN DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION AND THE REPAIR OF ANY DAMAGED FACILITIES.

SECTIONS AND DETAILS SHOWN, WHILE DRAWN FOR SPECIFIC LOCATIONS, ARE INTENDED TO ESTABLISH THE GENERAL TYPES OF DETAILS TO BE USED THROUGHOUT. DRAWINGS SHOULD NOT BE SCALED. CONTACT THE ENGINEER FOR CLARIFICATION OF ANY DIMENSION IN QUESTION.

ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR. LAYOUT SHALL BE CHECKED AND COORDINATED BETWEEN ALL CONSTRUCTION DOCUMENTS AND SPECIFICATIONS PRIOR TO THE START OF WORK.

SHOP DRAWINGS PREPARED BY THE SUBCONTRACTORS, SUPPLIERS, ETC. SHALL BE REVIEWED BY THE ENGINEER FOR CONFORMANCE WITH DESIGN CONCEPT ONLY. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED, INITIALED AND DATED AS BEING REVIEWED BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR. WORK SHALL NOT BEGIN WITHOUT THE REVIEW BY THE ENGINEER.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW OR RECORD SHALL BEAR THE STAMP AND SIGNATURE OF A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED.

WHERE THESE SPECIFICATIONS CONFLICT WITH OTHER PROJECT SPECIFICATIONS, THE MORE STRICT (I.E., HIGHER COST OPTION) SHALL GOVERN FOR BIDDING PURPOSES THEN CONTACT ENGINEER FOR CLARIFICATION.

LOADING NOTES

LOAD COMBINATIONS SHALL BE PER SECTION 605 OF THE 2018 INTERNATIONAL BUILDING CODE.

DEAD LOADS:

FLOOR	8" SLAB	12" SLAB
CONCRETE SLAB	100 PSF	150 PSF
Mech and Elec	7 PSF	7 PSF
MISC/SPRINKLER	3 PSF	3 PSF
TOTAL	110 PSF	160 PSF

LIVE LOADS:	
CORRIDOR/ ATRIUM	100 PSF
STAIR	100 PSF
ELEV. MACHINE RM	125 PSF
ELEV. PIT SLAB	ELEVATOR SUPPORT REACTIONS PER MANUFACTURER

MASONRY NOTES

ALL CONCRETE MASONRY SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90 UNLESS NOTED OTHERWISE. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 530/ASCE 5/MCS 402, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, LATEST EDITION AND ACI 530.1/ASCE 6/MS 602, SPECIFICATIONS FOR MASONRY STRUCTURES, LATEST EDITION, INCLUDING ALL SUPPLEMENTS.

28 DAY DESIGN COMPRESSIVE STRENGTH OF MASONRY (F_m) USED IS AS FOLLOWS: STANDARD MASONRY = 1800 PSI

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY BRACING OF ALL MASONRY CONSTRUCTION. BRACING SHALL REMAIN IN PLACE UNTIL MASONRY HAS HAD SUFFICIENT TIME TO GAIN DESIGN STRENGTH. WHERE MASONRY ATTACHES TO FLOOR AND/OR ROOF SYSTEMS, BRACING SHALL REMAIN IN PLACE UNTIL THE DIAPHRAGM HAS BEEN ANCHORED IN ITS FINAL POSITION.

GROUT LIFTS FOR REINFORCED MASONRY WALLS SHALL NOT EXCEED 5 FEET IN HEIGHT. HIGH LIFT GROUT PROCEDURES MAY BE USED ONLY AFTER WRITTEN APPROVAL IS PROVIDED BY THE ENGINEER.

ALL MORTAR SHALL CONFORM TO ASTM C270, MORTAR SHALL BE TYPE M, (BELOW GRADE/EXPOSED TO EARTH), TYPE S (ABOVE GRADE) WITH AN AVERAGE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.

GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. FILL GROUTED CORES, BOND BEAMS, AND WALL REINFORCEMENT WHERE SHOWN ON PLANS WITH 3000 PSI SMALL AGGREGATE CONCRETE MIX WITH 1/2" SLUMP. GROUT SAMPLES SHALL BE TESTED PER THE CAST-IN-PLACE CONCRETE CONSTRUCTION SPECIFICATIONS.

ALL STEEL LINTELS SHALL BE TEMPORARILY SHORED WHERE A HEIGHT OF MASONRY GREATER THAN HALF THE SPAN OF THE LINTEL WILL BE PLACED ABOVE THE LINTEL PRIOR TO MASONRY GAINING DESIGN STRENGTH. SHORING SHALL REMAIN IN PLACE UNTIL MASONRY HAS GAINED DESIGN STRENGTH AND ALL REQUIRED PERMANENT BRACING IS INSTALLED. ALL STEEL LINTELS FOR EXTERIOR MASONRY SHALL BE PAINTED.

PROVIDE VERTICAL CONTROL JOINTS IN ABOVE GRADE MASONRY WALLS SO THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED THE LESSER OF 1 1/2 TIMES THE OVERALL WALL HEIGHT, OR 25 FEET. CONTROL JOINTS SHALL NOT BE PLACED LESS THAN 8" FROM A BEARING PLATE OR JAMB OF AN OPENING. A CONTROL JOINT SHALL BE PLACED AT ONE SIDE OF AN OPENING LESS THAN 6" WIDE AND AT BOTH SIDES OF OPENINGS OVER 6" WIDE. PROVIDE VERTICAL CONTROL JOINTS AT INTERSECTIONS OF REINFORCED & UNREINFORCED WALLS, U.N.O. SUBMIT A SHOP DRAWING SHOWING CONTROL JOINT LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. COORDINATE EXACT CONTROL JOINT & EXPANSION JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.

HORIZONTAL JOINT REINFORCEMENT SHALL CONSIST OF TRUSS TYPE ASTM A42 COLD DRAWN NO. 9 GAUGE GALVANIZED WIRE STEEL LOCATED 18" O.C. CROSS RODS TO BE WELDED TO SIDE RODS AT 18" O.C. TO FORM A TRUSS LAP SPICES 6" MINIMUM. PROVIDE HORIZONTAL REINFORCING IN THE TWO COURSES ABOVE AND BELOW OPENINGS AND AT THE TOP OF WALLS OR PARTITIONS.

MASONRY CORES BELOW GRADE SHALL BE GROUTED SOLID. HEAD JOINTS SHALL BE MORTARED SOLID TO THE FULL DEPTH OF THE FACE SHELL. WEBS SHALL BE FULLY MORTARED AT GROUTED CORES. A MINIMUM OF ONE COURSE OF MASONRY SHALL BE GROUTED SOLID BELOW TRANSITIONS IN MASONRY THICKNESS.

COLD WEATHER MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF ACI 530.1/ASCE 6/MS 602, LATEST EDITION.

MASONRY STAIR SHAFTS AND ELEVATOR SHAFTS SHALL BE GROUTED SOLID, UNLESS NOTED OTHERWISE.

REINFORCING STEEL SHALL BE DEFORMED, BILLET-STEEL CONFORMING TO ASTM A615 - GRADE 60. WELDING OF REINFORCING STEEL MUST BE APPROVED BY THE ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AWS CODE, D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL, LATEST EDITION AND BE PERFORMED ONLY BY QUALIFIED WELDERS.

SHOP DRAWINGS FOR THE FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE FABRICATION COMMENCES. SUBMITTALS REQUIRED TO BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO CONCRETE MASONRY CONSTRUCTION INCLUDE, BUT ARE NOT LIMITED TO: MIX DESIGNS, REINFORCEMENT SHOP DRAWINGS, VERTICAL CONTROL JOINT LOCATION PLANS, MORTAR SHALL BE SAMPLED AND TESTED ACCORDING TO ASTM C 270, C 780, AND C 1098.

WET SETTING OF REINFORCING STEEL IS PROHIBITED UNLESS APPROVED BY THE ENGINEER.

CONCRETE NOTES

ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITION AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, LATEST EDITION, INCLUDING ALL REVISIONS, EXCEPT AS MODIFIED HEREIN.

CONCRETE SHALL BE SUPPLIED BY A QUALIFIED READY-MIXED CONCRETE PLANT IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

	f _c	w/c	SLUMP
BURIED FOOTINGS AND PIERS	3000PSI	0.5	2'-4"
INTERIOR SLABS ON GRADE	4000PSI	0.45	2'-4"
EXTERIOR CONCRETE	4500PSI	0.40	2'-4"

ENTRAINED AIR = 4 TO 7% FOR ALL EXPOSED CONCRETE, FOOTINGS, PIERS, EXTERIOR SLABS, AND WHERE OTHERWISE NOTED. ALL CONCRETE TEND TO FREEZE. FUTURE SHALL BE AIR-ENTRAINED, U.N.O.

NO ADMIXTURES PERMITTED WITHOUT ENGINEER'S APPROVAL. CHLORIDE CONTAINING ADMIXTURES ARE NOT PERMITTED.

FINE AGGREGATE MUST BE NATURAL SAND, UNLESS APPROVED BY THE ENGINEER.

AIR-ENTRAINING ADMIXTURES ARE NOT PERMITTED ON TROWEL FINISHED SLABS.

AT CONTRACTOR'S OPTION, FLY ASH, GROUND GRANULATED BLAST FURNACE SLAG, OR OTHER POZZOLANS MAY BE SUBSTITUTED FOR PORTLAND CEMENT, UP TO 25% OF THE CEMENT/ITONS CONTENT. CONCRETE MIXES USING THESE MATERIALS MUST BE APPROVED BY THE ENGINEER.

WHEN CONCRETE ARRIVES AT THE PROJECT WITH SLUMP BELOW THAT SUITABLE FOR PLACEMENT, AS INDICATED BY THE SPECIFICATIONS, WATER MAY BE ADDED ONLY IF NEITHER THE MAXIMUM PERMISSIBLE WATER-CEMENT RATIO NOR THE MAXIMUM SLUMP IS EXCEEDED. THE WATER SHALL BE INCORPORATED BY ADDITIONAL MIXING EQUAL TO AT LEAST HALF OF THE TOTAL MIXING REQUIRED.

DISCHARGE OF THE CONCRETE SHALL BE COMPLETED WITHIN 1-1/2 HOURS, OR BEFORE THE TRUCK DRUM HAS REVOLVED 300 REVOLUTIONS, WHICHEVER COMES FIRST, AFTER THE INTRODUCTION OF THE MIXING WATER TO THE CEMENT AND AGGREGATES OR THE INTRODUCTION OF THE CEMENT TO THE AGGREGATES.

TRUCK BATCH SLIPS MUST INCLUDE TIME OF BATCHING, TOTAL DRUM REVOLUTIONS UPON ARRIVAL AT SITE, AND QUANTITY OF WATER (IN GALLONS) PER CUBIC YARD AVAILABLE TO BE ADDED TO ATTAIN THE MAXIMUM DESIGN WATER-CEMENT RATIO.

REINFORCING STEEL SHALL BE DEFORMED, BILLET-STEEL CONFORMING TO ASTM A615 - GRADE 60. WELDING OF REINFORCING STEEL MUST BE APPROVED BY THE ENGINEER AND SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AWS CODE, D1.4, STRUCTURAL WELDING CODE - REINFORCING STEEL, LATEST EDITION AND BE PERFORMED ONLY BY QUALIFIED WELDERS.

WHEN SPECIFIED, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SUPPLIED IN FLAT SHEETS ONLY. BAR CHAIRS ARE REQUIRED AT THE RECOMMENDED SPACING FOR STRUCTURAL SLABS.

REINFORCING STEEL SPICES SHALL BE ACI CLASS B SPICES UNLESS INDICATED OTHERWISE.

PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCE FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. PROVIDE ACCESSORIES WHICH ARE PLASTIC TIPPED OR GALVANIZED WITH TURNED-UP ENDS FOR REINFORCEMENT AT ALL FACES OF EXPOSED CONCRETE, INTERIOR OR EXTERIOR.

SHOP DRAWINGS FOR THE FABRICATION AND PLACEMENT OF REINFORCING STEEL SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE FABRICATION COMMENCES.

CONCRETE SHALL BE PLACED ONLY AFTER APPROVAL OF THE REINFORCEMENT AND MIX DESIGNS BY THE ACTING SPECIAL INSPECTION AGENCY OR THE ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSPECTIONS PRIOR TO CONCRETE PLACEMENT. SCHEDULE THE POURING OF FOUNDATIONS ON THE SAME DAY THE EXCAVATION IS COMPLETED.

CURE ALL CONCRETE IN ACCORDANCE WITH ACCEPTED ACI STANDARDS AND PERFORMANCE TO ACI 308.1, STANDARD SPECIFICATION FOR CURING CONCRETE, LATEST EDITION, FOR THE WORST CASE WEATHER CONDITIONS ANTICIPATED DURING THE CURING PERIOD.

ALL CONCRETE CONSTRUCTION AND PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF ACI 306.1, STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING, LATEST EDITION.

NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.

MECHANICALLY VIBRATE CONCRETE. SLABS-ON-GRADE NEED ONLY BE VIBRATED AROUND FLOOR DUCTS AND OTHER EMBEDDED ITEMS. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN STRUCTURAL CONCRETE OR COMPOSITE FLOOR SYSTEMS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

MAXIMUM FREE DROP OF ANY CONCRETE = 5'-0"

PROVIDE A MINIMUM OF CONCRETE COVER FOR REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS: FOOTINGS = 3 INCHES EARTH FACE, 2 INCHES ALL OTHERS, U.N.O. CONCRETE WALLS, BEAMS, AND PIERS = 2 INCHES EARTH FACE, 1-1/2 INCHES ALL OTHERS, U.N.O.

SIX (6) TEST CYLINDERS SHALL BE PREPARED FOR EVERY 50 CUBIC YARDS OF CONCRETE PLACED ON ANY GIVEN DAY TO REPRESENT ALL CONCRETE PLACED ON THAT DAY. TWO (2) CYLINDERS SHALL BE TESTED AT SEVEN (7) DAYS AND TWO (2) CYLINDERS SHALL BE TESTED AT 28 DAYS FOR VERIFICATION OF CONCRETE DESIGN STRENGTH WITH TWO (2) CYLINDERS REMAINING.

CONCRETE FINISHES, AS DEFINED IN CHAPTER 5 OF ACI 301, SHALL BE AS FOLLOWS, U.N.O.:

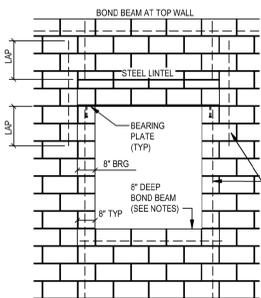
FORMED SURFACES NOT EXPOSED TO PUBLIC VIEW: ROUGH-FORM FINISH
FORMED SURFACES EXPOSED TO PUBLIC VIEW: SMOOTH-FORM FINISH
WALLS AS INDICATED: RUBBED FINISH
TYPICAL INTERIOR COMMERCIAL/INDUSTRIAL FLOOR: TROWELED FINISH
FLOORS TO RECEIVE CERAMIC TILE, PORTLAND CEMENT, TERRAZZO, ETC.: SCRATCH FINISH
EXTERIOR SLABS ON GRADE, WALKWAYS, ETC.: NON-SLIP BROOM FINISH

PROVIDE VERTICAL CONTROL JOINTS IN CONCRETE WALLS AND >11" SLABS AT A MAXIMUM 20'-0" O.C. SPACING OR A MAXIMUM 1.5:1.0 RATIO WHICHEVER IS SMALLER.

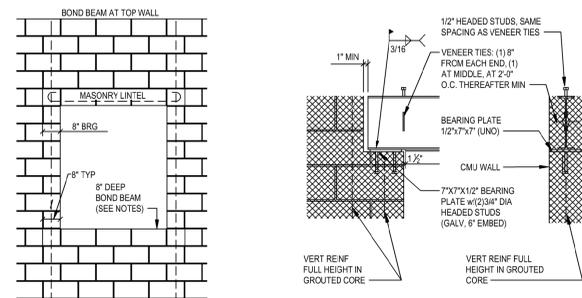
DO NOT ALLOW CONSTRUCTION EQUIPMENT ON NEWLY PLACED SLABS FOR A MINIMUM OF SEVEN (7) DAYS. WHEN STRIP POURING, ALLOW SEVEN (7) DAYS BEFORE PLACING ADJACENT SLAB SECTIONS. A SLAB ON GRADE PRE-CONSTRUCTION CONFERENCE INVOLVING THE OWNER, CONTRACTOR AND ENGINEER IS RECOMMENDED TO REVIEW INSTALLATION PROCEDURES AND REQUIREMENTS.

SPECIAL INSPECTION NOTES

OWNER SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE IBC. REFER TO TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFO. PROVIDE TEST/INSPECTION REPORTS TO THE STRUCTURAL ENGINEER ON A WEEKLY BASIS MINIMUM.



MASONRY WALL LINTELS



STEEL LINTELS

NOTES:
1. COORDINATE ELEVATIONS WITH ARCHITECTURAL SILL DETAILS.
2. OMIT SILL BOND BEAM AT DOOR OPENINGS.

WALL TYPE	MASONRY OPENING	LINTEL
8" INTERIOR CMU WALL	4'-0" OR LESS	8" WIDE x 8" DEEP BOND BEAM WITH (2) #5 BARS
	8'-0" OR LESS (> THAN 4'-0")	WB24 W/ CONTINUOUS PLATE 3/8"x7/16" WELDED TO BOTTOM FLANGE W/ 1/2"x3/8" BEARING PLATES
12" OR 14" INTERIOR CMU WALL	4'-0" OR LESS	WB15 W/ CONTINUOUS PLATE 5/16"x11/16" (OR 3/4"x1/2") WELDED TO BOTTOM FLANGE W/ 8"x8"x3/8" BEARING PLATES
	8'-0" OR LESS (> THAN 4'-0")	WB24 W/ CONTINUOUS PLATE 5/16"x11/16" (OR 3/4"x1/2") WELDED TO BOTTOM FLANGE W/ 1/2"x3/8" BEARING PLATES
	8'-0" OR GREATER	CONTACT ENGINEER IF NOT NOTED ON DRAWINGS

GENERAL LINTEL NOTES:
ALL LOOSE ANGLE LINTELS SHALL HAVE 6" MIN. BEARING LENGTH ON MASONRY WITH ONE COURSE OF SOLID MASONRY UNDER BEARING.

PROVIDE BEARING PLATES WHERE NOTED AND ANCHORAGE AT ALL BEAM LINTELS (SEE TYP. DETAILS). PROVIDE (2) HEADED STD ANCHORS AT ALL BEARING PLATES AND WELD TO BEARING PLATE U.N.O. BOTTOM PLATES SHALL EXTEND TO WITHIN 1/2" OF MASONRY OPENING (TYP).

CENTER BEAM IN WALL. PROVIDE TEMPORARY SHORING FOR MULTI-WYTHE WALLS WHEN WYTHES ARE NOT CONSTRUCTED AT THE SAME TIME.

PROVIDE LINTELS FOR ALL OPENINGS > 8" WIDE THROUGH MASONRY WHETHER SHOWN ON THE PLANS OR NOT. SEE ARCH AND MECH DRAWINGS FOR OPENINGS.

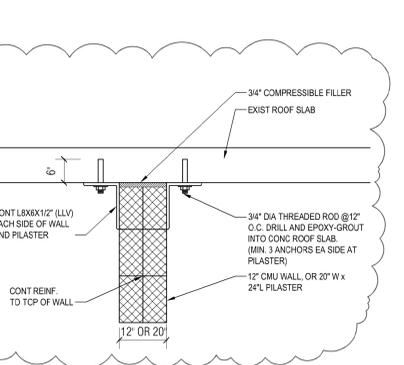
FOR NEW OR ENLARGED OPENINGS IN EXISTING WALLS, CONTRACTOR SHALL PROVIDE ADEQUATE NEEDLE BEAMS, SHORING, ETC. AS REQUIRED FOR TEMPORARY SUPPORT OF WALLS DURING CONSTRUCTION. AT EXTERIOR WALLS, NEEDLE BEAMS AND LINTELS SHALL BE INSTALLED WITH MINIMAL DISTURBANCE TO EXISTING FACE MASONRY. ANY MASONRY DISTURBED DURING CONSTRUCTION SHALL BE RE-INSTALLED OR REPLACED AND TOOTHED TO MATCH EXISTING CONSTRUCTION. PROVIDE BEARING CONDITIONS AS NOTED ABOVE.

ALL LINTELS IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED AND PAINTED WHERE EXPOSED.

PROVIDE HEADED STUDS AND TIES ON STEEL LINTELS AS PER THE TYPICAL DETAIL.

LINTELS > THAN 8" SHALL HAVE 3/8" BOTTOM PLATES WELDED TO THE BOTTOM FLANGE WITH A WIDTH EQUAL TO THE WALL WIDTH - 1/2". ALSO PROVIDE 6-1/2"x8" BEARING PLATES AT EACH END.

CONCRETE TOLERANCES



TYPICAL WALL ATTACHMENT TO EX. ROOF SLAB

ADDED PLASTER INFORMATION

SCALE & DIMENSIONS	BASE BIDS
<p>BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING</p> <p>IF BAR IS NOT ONE (1) INCH LONG, ADJUST SCALE ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.</p>	<p>ALL WORK SHOWN ON THIS DRAWING IS INCLUDED IN BASE BID 01, UNLESS NOTED OTHERWISE ON THIS DRAWING.</p> <p>REFER TO PROJECT MANUAL FOR FULL DESCRIPTION OF ALL BASE BIDS.</p>

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No.	DESCRIPTION	No.	DESCRIPTION

AS-BUILT REVISIONS

CONSULTANT

VITETTA ENGINEERS + ARCHITECTS - PLANNERS

BUCHART HORN ENGINEERS + ARCHITECTS - PLANNERS

02.12.2024

VITETTA Professional's Signature: _____ Date: 02.12.2024

Consultant Professional's Signature: _____ Date: 02.12.2024

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER ROBERT G. CRAMER No. 56271-E

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES

HARRISBURG, PENNSYLVANIA

DGS PROJECT NUMBER: **C-0948-0101 PHASE 001**

CAPITOL EAST WING REPLACEMENT OF ESCALATORS WITH ELEVATOR HVAC DIFFUSERS & CAFETERIA UPGRADES

HARRISBURG, DAUPHIN COUNTY, PENNSYLVANIA

GENERAL NOTES AND TYPICAL DETAILS		
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