

GENERAL NOTES

DESIGN LOADING

A. THE MINIMUM DESIGN LIVE LOADINGS FOR ALL NEW FRAMING IS AS

ROOF---- 30 PSF FRAMED FLOORS -- 100 PSF UNIFORM LOAD OR A 2000 LB. CONCENTRATED LOAD ON 2.5 FOOT SQUARE AREA STAIRS ---- 100 PSF WIND ---- 80 MPH BASIC WIND VELOCITY

FOUNDATIONS

- A. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-0" BELOW FINISH GRADE.
- B. FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED ALLOWABLE NET SOIL BEARING PRESSURE OF 3000 PSF. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ASSUMED SOIL BEARING PRESSURES. SHOULD THE SOIL BEARING PRESSURE BE FOUND TO BE LESS THAN 3000 PSF THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT.
- C. FILL UNDER FOOTINGS AND SLABS SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698, STANDARD PROCTOR.

CAST-IN-PLACE CONCRETE

- A. CONCRETE SHALL BE STONE AGGREGATE CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE EXPOSED TO WEATHER SHALL HAVE AN AIR ENTRAINMENT OF 5% +/- 1%. MAXIMUM AGGREGATE SIZE FOR CONCRETE SHALL BE 3/4", AND MÁXIMUM SLUMP SHALL BE 4".
- B. CONCRETE FILL FOR METAL PAN STAIRS AND MASONRY WALLS SHALL BE PEA GRAVEL CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MAXIMUM SIZE OF AGGREGATE SHALL BE 1/2".
- C. CONCRETE SHALL BE SAMPLED AND TESTED BY AN AGENCY RETAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 48 HOURS PRIOR TO THE POURING OF ANY CONCRETE.

REINFORCING STEEL

- A. REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60.
- B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

SLABS ON GRADE

- A. FLOOR SLABS SHALL BE PLANED TO A CLASS "A" TOLERANCE, THAT IS, HAVING A MAXIMUM AMPLITUDE OF 1/8" IN 10 FEET IN ANY DIRECTION ALL FLOOR SLABS SHALL BE SCREEDED, FLOATED AND STEEL TROWELED TO A SMOOTH, DENSE AND PLANE SURFACE.
- SLABS ON GRADE SHALL CONSIST OF A 4" THICK CONCRETE SLAB REINFORCED WITH 6 x 6 - W1.4 x W1.4 WELDED WIRE FABRIC ON 6 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF AASHTO NO. 57 CRUSHED STONE. ALL EDGES OF VAPOR BARRIER SHALL BE LAPPED 6" AND
- C. SLAB ON GRADE FOR MRI ROOM SHALL CONSIST OF A 6" THICK CONCRETE SLAB REINFORCED WITH FIBREMESH FIBERGLASS REINFORCING ON 6 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF AASHTO NO. 57 CRUSHED STONE.
- D. CONTROL JOINTS FOR SLABS ON GRADE SHALL BE SPACED AT 15-20 FEET INTERVALS IN BOTH DIRECTIONS. CONTROL JOINT PANELS SHALL BE RECTANGULAR IN SHAPE AND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1.5.
- E. CONTROL JOINTS SHALL BE PLASTIC "QUICK-JOINT" CONTROL JOINT FORMER, 1/3 OF SLAB DEPTH: SAW-CUT 1/3 OF SLAB DEPTH: OR KEYED CONTROL JOINTS. AT PLASTIC OR SAW-CUT CONTROL JOINTS, CUT ALTERNATE WIRES OF THE WELDED WIRE FABRIC CROSSING THE JOINT; AND AT KEYED CONTROL JOINTS, STOP WELDED WIRE FABRIC EACH SIDE OF JOINT.

MASONRY

- A. MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-88) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-88).
- B. MASONRY WALLS SHALL BE CONSTRUCTED OF LOAD BEARING UNITS.
- C. HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 AND SOLID MASONRY BLOCK SHALL CONFORM TO ASTM C145, TYPE N-1.
- D. MASONRY WALLS SHALL BE LAID UP WITH TYPE M MORTAR.
- E. ALL MASONRY WALLS SHALL BE REINFORCED WITH 9 GAGE TRUSS TYPE GALVANIZED HORIZONAL REINFORCING SPACED VERTICALLY AT 16" UNLESS NOTED OTHERWISE. PROVIDE CORNER AND TEE PIECES AT ALL INTERSECTIONS. LAP ALL HORIZONAL REINFORCING 6" MINIMUM.
- F. PROVIDE 16" MINIMUM DEPTH OF 100% SOLID MASONRY OR HOLLOW BLOCK FILLED SOLID WITH GROUT BELOW ALL LINTEL SUPPORTS.
- G. FILL FOR MASONRY WALLS SHALL BE PEA GRAVEL CONCRETE OR GROUT CONFORMING TO ASTM C476. FILL SHALL BE PLACED IN 5'-0" MAXIMUM
- H. LAP ALL VERTICAL REINFORCING 30 BAR DIAMETERS MINIMUM.

STRUCTURAL STEEL

- A. STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, Fy = 36,000 PSI.
- B. STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46,000 PSI.
- WELDED CONNECTIONS SHALL BE DONE WITH E70XX ELECTRODES. BOLTED CONNECTIONS SHALL USE 3/4" ASTM A325N HIGH STRENGTH BOLTS. ANCHOR BOLTS SHALL BE ASTM A307.
- SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED, UNLESS OTHERWISE NOTED.
- STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH AN APPROVED CORROSION RESISTANT PRIMER SUCH AS "TNEMEC PRIMER 10-99". STEEL SHALL BE PAINTED IN STRICT ACCORDANCE WITH THE AISC SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. PRIOR TO PAINTING, ALL STEEL SURFACES SHALL BE PREPARED IN ACCORDANCE WITH SSPC-SP3.

STEEL JOISTS

- OPEN WEB K SERIES JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD SPECIFICATIONS AND LOAD TABLES" AS ADOPTED BY THE STEEL JOIST
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METAL DECKING

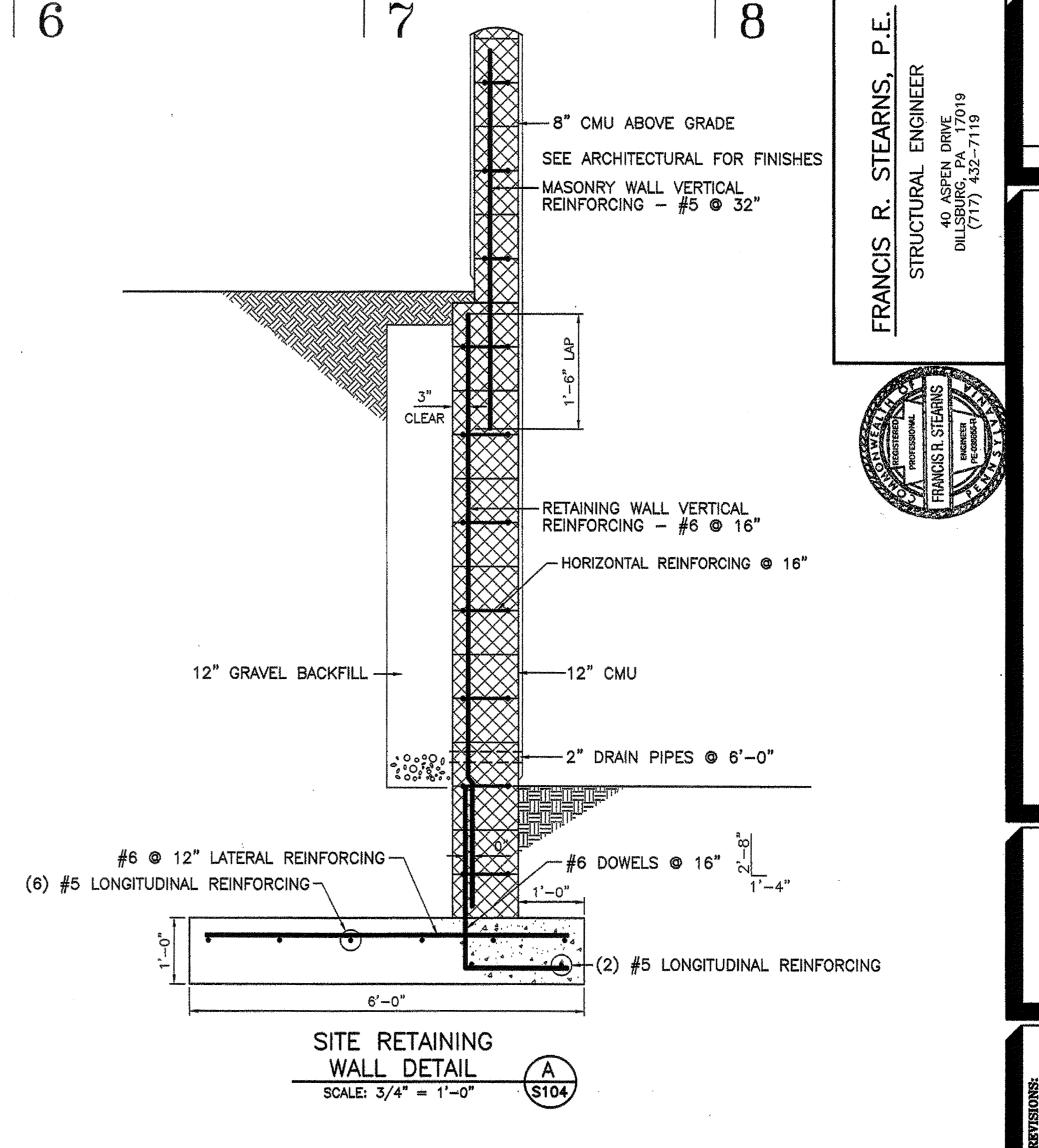
- METAL FLOOR FORM DECKING SHALL CONSIST OF 9/16", 28 GAGE, G60 GALVANIZED STEEL SLABFORM.
- METAL ROOF DECKING SHALL BE 1-1/2", 22 GAGE, G60 GALVANIZED STEEL ROOF DECK.
- METAL DECK UNITS SHALL BE WELDED TO THE STEEL FRAMING WITH WELDING WASHERS. ALL WELDS AND BURN AREAS SHALL BE CLEANED AND

LIGHT GAUGE METAL STUDS

- METAL STUDS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE'S "SPECIFICATION FOR THE DESIGN OF COLD—FORMED STEEL STRUCTURAL
- METAL STUDS SHALL BE THE SIZE, GAUGE AND SECTION PROPERTIES INDICATED. METAL STUDS SHALL BE FORMED FROM CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446. 16 GAUGE STUDS SHALL BE GRADE D, MINIMUM FY = 50 KSI AND 18 GAUGE STUDS SHALL BE GRADE A, MINIMUM FY = 33 KSI.

SIZE, GAUGE AND STYLE STUDS	lx (IN4)	Sx (IN3)	
6", 16 GA 6", 18 GA	2.468 1.999	0.786 0.642	
3-5/8", 18 GA LINTELS	0.602	0.313	
8". 16 GA	5.629	1.347	

- WELDING OF METAL STUDS SHALL BE PREFORMED BY CERTIFIED WELDERS EXPERIENCED IN THE WELDING OF LIGHT GAUGE MEMBERS. WELDING ELECTRODES SHALL CONFORM TO ASTM A223, E70. WELDS AND SURROUNDING AREAS SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP2 OR SP3 AND SHALL RECEIVE AN APPLICATION OF ZINC RICH INORGANIC PAINT SUCH AS TNEMEC 90-92.
- D. METAL STUDS SHALL BE SAW CUT, SQUARE AND TRUE. CUTTING OF METAL STUDS WITH A TORCH SHALL NOT BE PERMITTED. LOAD BEARING AND EXTERIOR STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT THEIR ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER WEB PRIOR TO FASTENING.
- E. PRIOR TO PROCEEDING WITH ANY METAL STUD WORK. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL, SHOP DRAWINGS SHOWING THE SIZE, LOCATION AND DETAILS OF CONNECTIONS OF ALL METAL STUDS IN BEARING OR EXTERIOR WALLS. DRAWINGS SHALL INCLUDE A PLAN AND ELEVATIONS OF ALL WALL FRAMING AND DETAILS OF CONNECTIONS.
- F. FOR ALL OPENINGS 24" OR GREATER THROUGH A LOAD BEARING OR EXTERIOR STUD WALL, PROVIDE ONE ADDITIONAL STUD OR SET OF STUDS OF THE SIZE AND GAUGE INDICATED ON THE DRAWINGS. FOR ALL DOOR AND WINDOW OPENINGS, PROVIDE TWO STUDS ON BOTH SIDES OF THE OPENING.
- G. WIND BRACING SHALL BE PROVIDED IN ALL FOUR CORNERS AND IN EACH DIRECTION. WIND BRACING SHALL BE 4", 18 GAGE STRAPS, SCREWED OR WELDED TO STUD FRAMING IN AN X PATTERN.



		RE	VISED	COL	UMN	SCHE	DULE	(2)	
COL. NO.	S-2 S-3	H-2 H-3 N-2 N-3	E-2 E-3 Q-2 Q-3	A-2 B-3	U-1 U-2 V-3	D-4 G-4 J-4 M-4 P-4	B-4 R-4 T-4	A-1 C-1 F-1 K-1 L-1 O-1	COL. NO. ELEV.
521.58'		3,	9				WANDOWS WINGS STORY	· ·	521.58'
510.04'		_		estiqui estilut que que que que que que como como como como como como como com		TS4x4x5/16	TS4x4x5/16	TS4x4x5/16	510.04'
498.04	TS6x6x1/2	TS6x6x1/2	TS6x6x1/2		TS4x4x1/2	6" ø STD -STEEL PIPE	TS4x4x3/8	8" TO TOP OF WALL	
484.71'	TS8x8x1/2	TS8x8x1/2	TS8x8x1/2	TS6x6x1/2	8" TO TOP OF PIER	8° TO TOP OF PIER	TO TOP OF PIER		484.71'
	8" TO TOP OF FTG	TO TOP OF FTG	8" TO TOP OF FTG	8" TO TOP OF FTG					
BASE PLATE SIZE	14"x1" s	14"x1" s	14"x1" g	12"x1" s	8"x3/4" x0'-10"	12"x3/4" x1"-0"	10"x3/4" x0'-10"	6"x3/4" x0'-10"	BASE PLATE SIZE

COLUMNS 0 UNION DEPOR Z TRIST. LOWER PAXTON TO DRAWN BY: F.STEARNS CHECKED BY: B.J.S.

DATE: 4-2-99

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