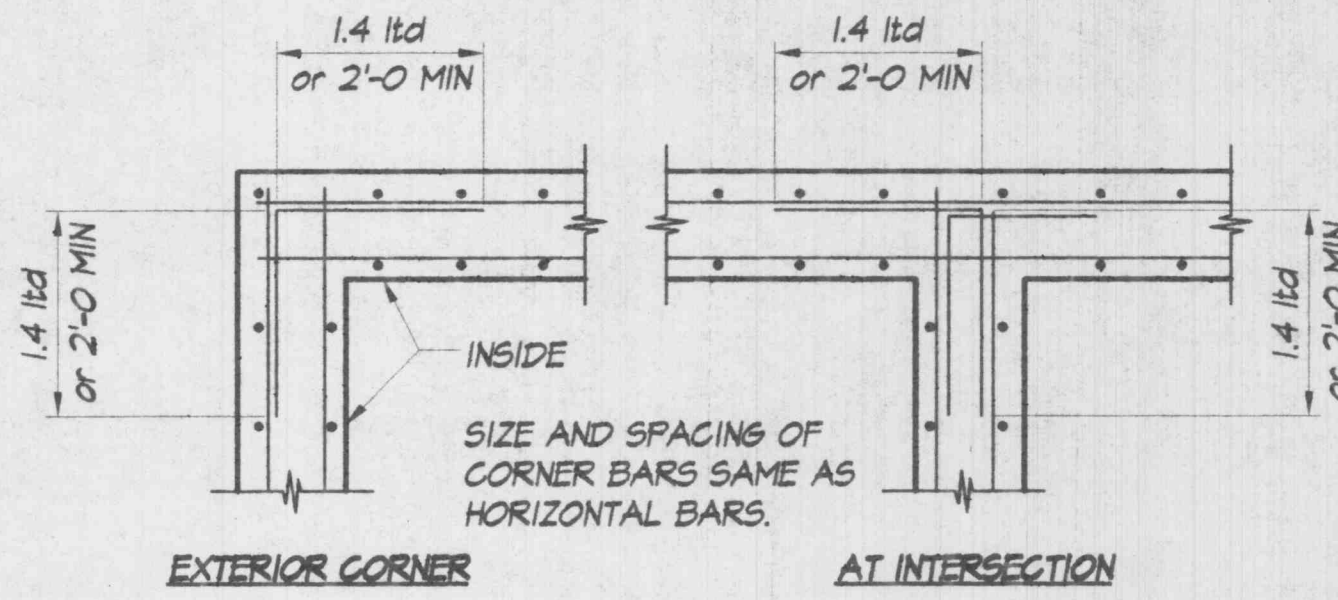
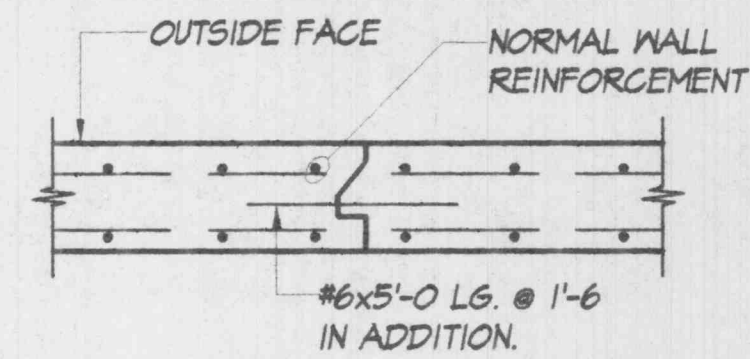


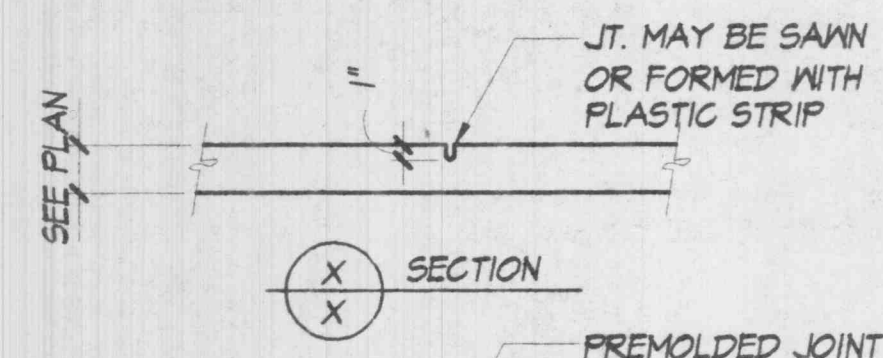
TYPICAL DETAIL OF INTERIOR COLUMN @ SPREAD FOOTING



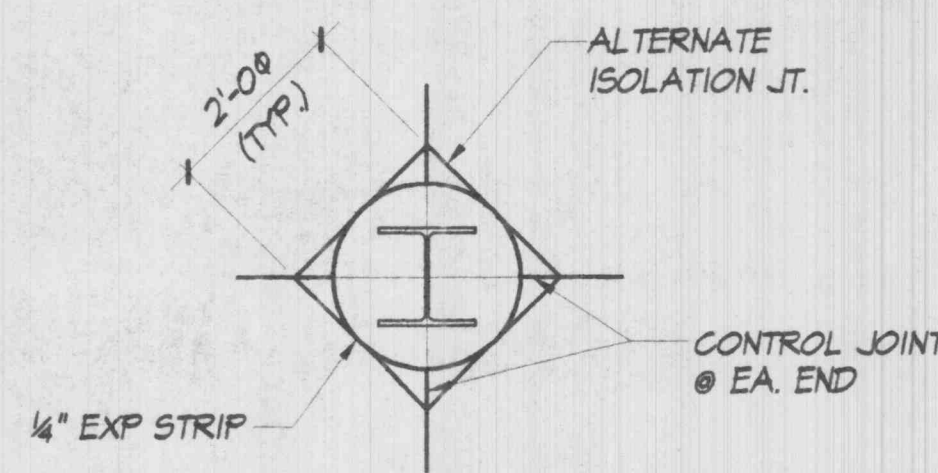
TYPICAL CORNER BAR DETAILS



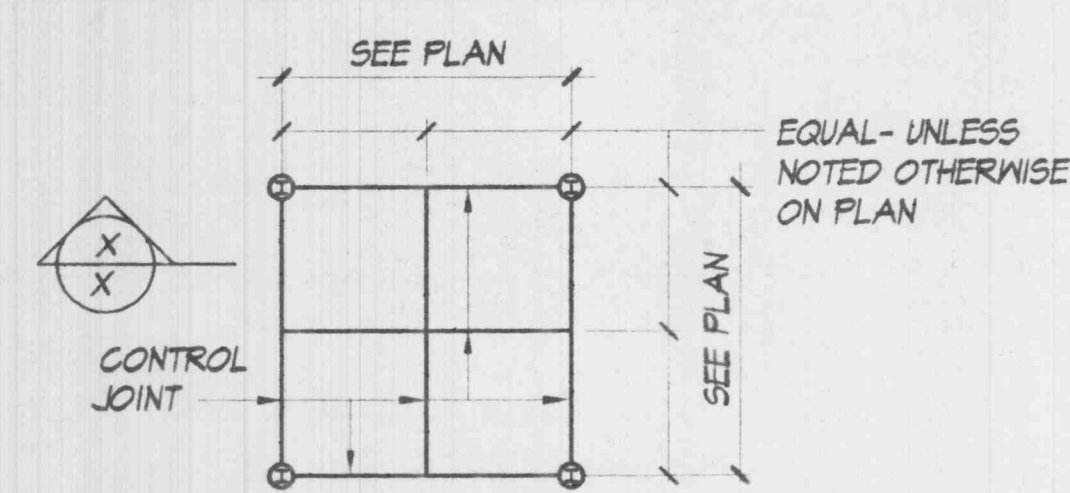
TYPICAL DETAIL OF VERTICAL CONSTRUCTION JOINT IN CONCRETE WALLS



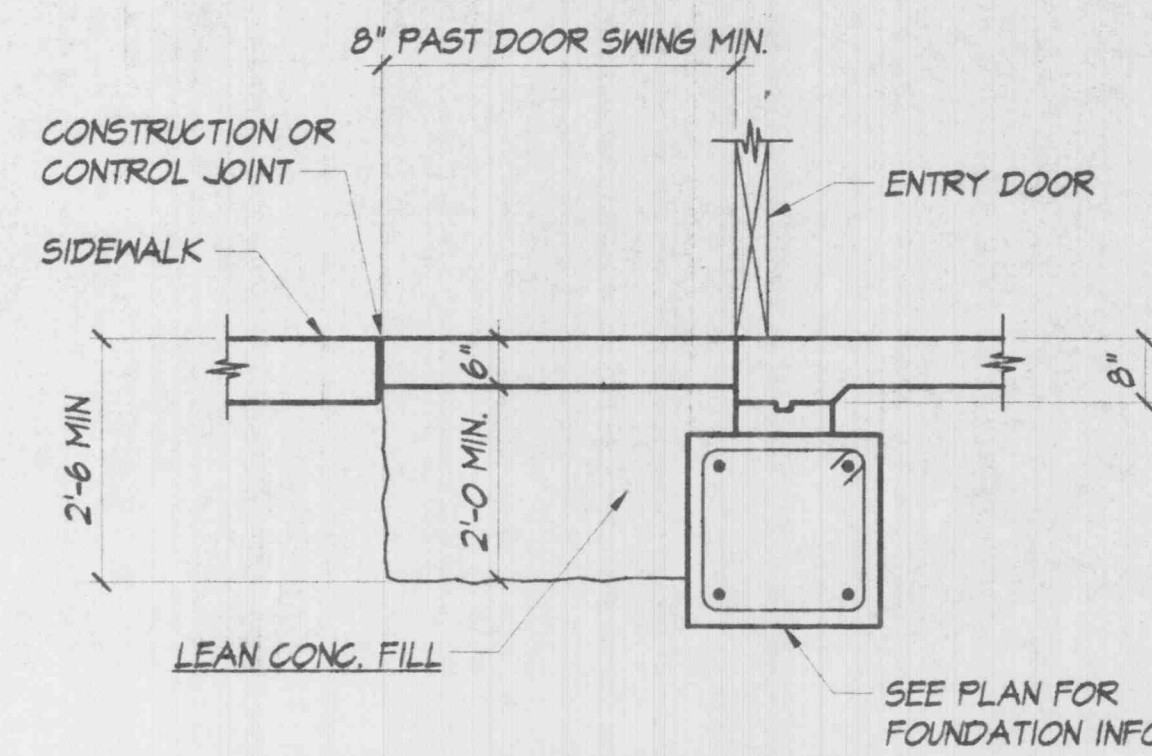
TYPICAL CONSTRUCTION JOINT DETAIL FOR SLAB ON GRADE



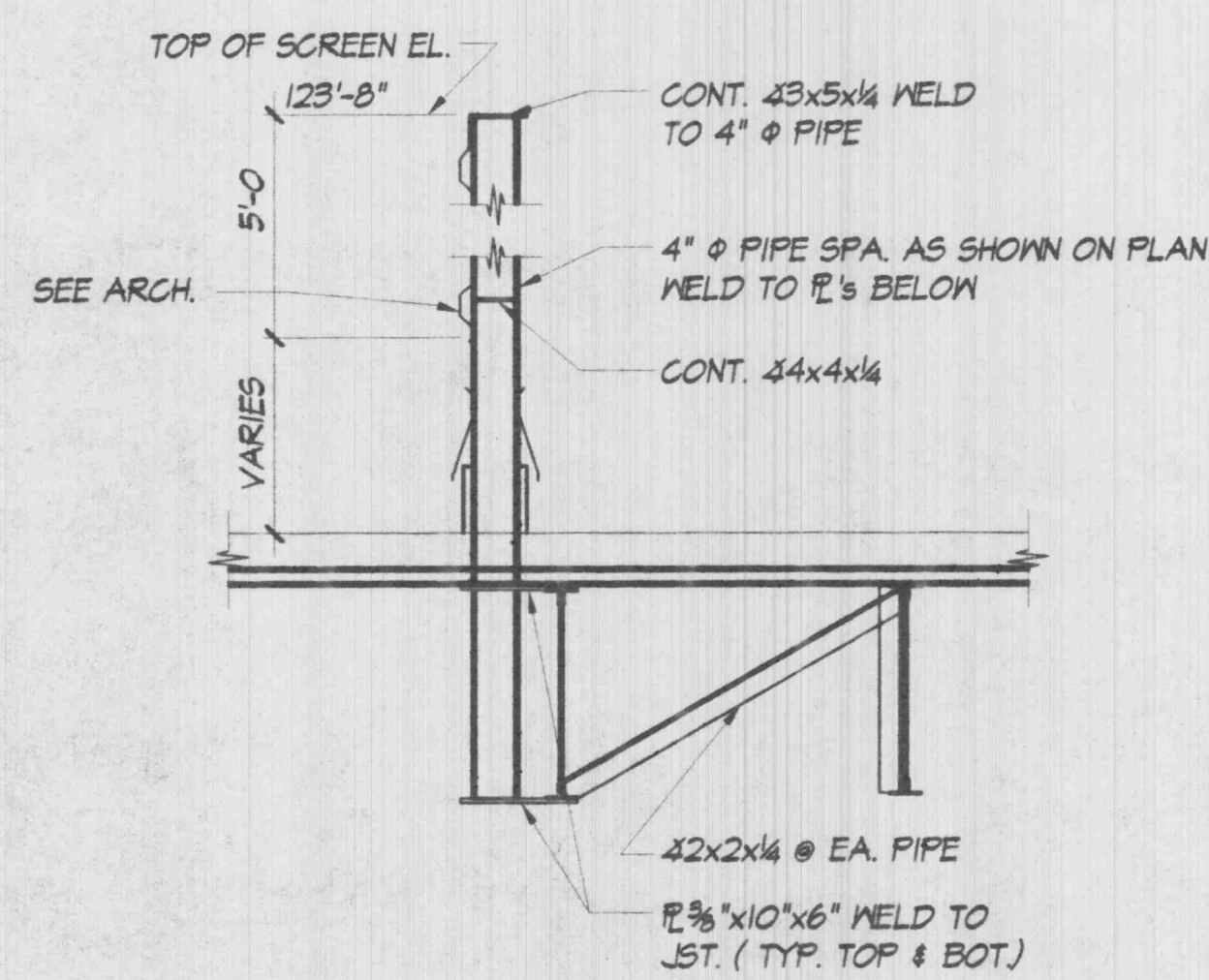
TYPICAL COLUMN ISOLATION JOINT DETAIL



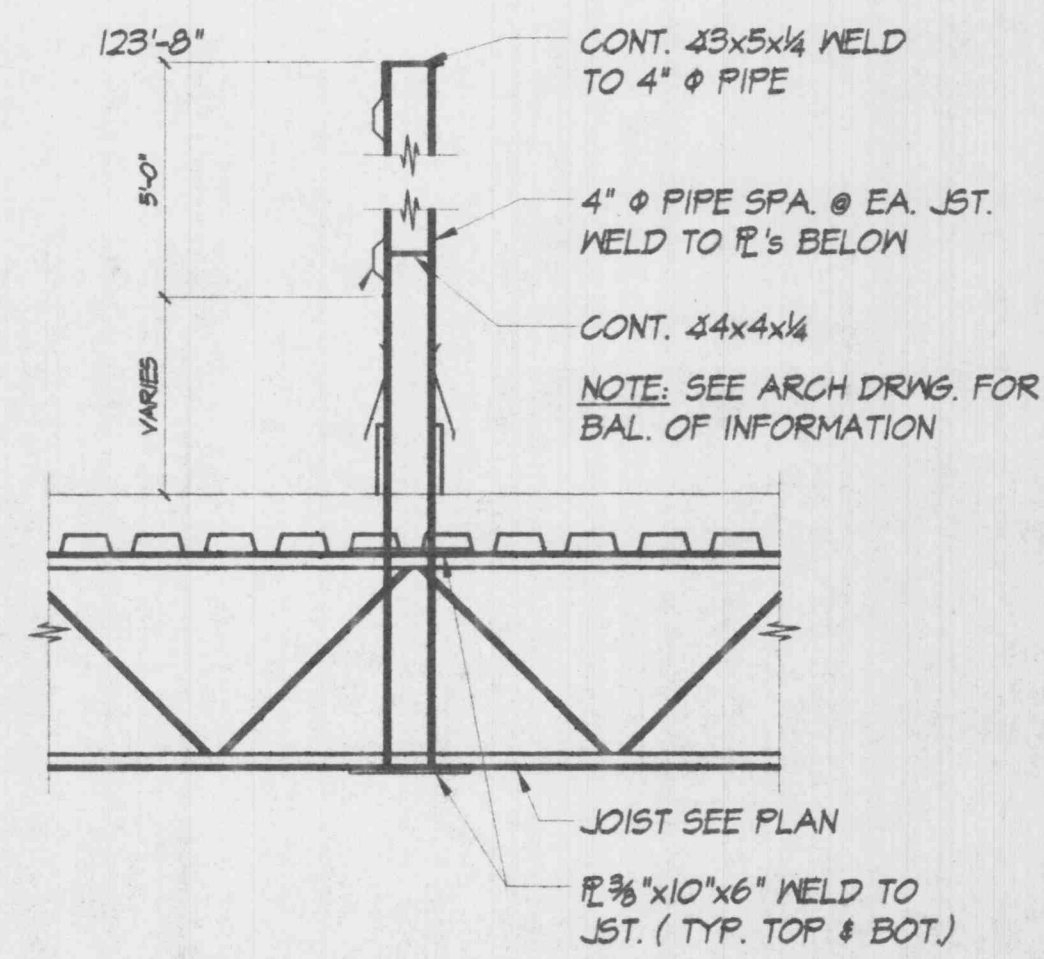
TYPICAL SLAB CONTROL AND CONSTRUCTION JOINT DETAIL



TYPICAL ENTRY DETAIL FOR SLAB FROST HEAVE PREVENTION



TYPICAL ROOF SCREEN PARALLEL TO JOIST



TYPICAL ROOF SCREEN PERPENDICULAR TO JOIST

GENERAL NOTES:

- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE PROVISIONS OF AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE A.C.I. 318 LATEST EDITION.
- CONCRETE FOR WALLS, DRILLED PIERS, SLABS ON METAL DECK, AND SLABS-ON-GRADE TO HAVE AN ULTIMATE COMPRESSIVE STRENGTH @ 28 DAYS OF AT LEAST 4000 P.S.I., WITH AT LEAST 6 SACKS OF CEMENT PER CU. YD. AND A MAX. WATER/CEMENT RATIO OF .45 WITH 4 1/2\"/>
- ALL REINFORCING STEEL TO BE BILLET STEEL CONFORMING TO A.S.T.M. A615 GRADE 60 LATEST EDITION.
- ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, LATEST EDITION.
- NO CHANGE IS TO BE MADE IN SIZE OR LOCATION OF ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- FOR SIZE AND LOCATION OF PIPE SLEEVES, VENT OPENINGS, ANCHORS, ETC., SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. NO PIPE SLEEVES OR OPENINGS OF ANY KIND SHALL BE PLACED IN OR THRU ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- WHERE CONCRETE PIERS ARE IN OR CONNECTED TO CONCRETE WALLS, THEY SHALL BE PLACED MONOLITHIC WITH SAME.
- REINFORCEMENT SHALL BE CONTINUOUS WHEREVER POSSIBLE. WHERE SPLICES ARE NECESSARY LAPS SHALL BE IN ACCORDANCE WITH VALUES TABULATED IN EMBEDMENT AND SPLICE SCHEDULE THIS SHEET.
- RODS IN SLABS SHALL HAVE 1' COVERAGE, RODS IN FOOTINGS SHALL HAVE 3' COVERAGE, RODS IN WALLS SHALL BE 2\"/>
- ALL WALLS TO BE REINFORCED AS SHOWN AND TO BE WELL BRACED DURING BACK FILLING OPERATION. ALL AREAWAY SLABS AND ENTRANCE STAIRS ARE TO BE DOVELEDED INTO MAIN WALLS WITH #5 @ 12\"/>
- ALL STRUCTURAL STEEL TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. MANUAL OF STEEL CONSTRUCTION LATEST EDITION FOR A56 STEEL, UNLESS OTHERWISE NOTED.
- ALL CONNECTIONS TO BE STANDARD CONNECTIONS FOR 3/4\"/>
- ANCHOR ALL STRUCTURAL STEEL TO MASONRY WITH 3/4\"/>
- ALL STEEL JOISTS TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST S.D.I. SPECIFICATION FOR 'K' SERIES JOISTS. WELD ALL JOISTS TO STRUCTURAL STEEL AND ANCHOR JOISTS TO MASONRY AT BEARING.
- ALL METAL DECK TO BE FABRICATED AND ERECTED IN ACCORDANCE WITH LATEST S.D.I. SPECIFICATIONS FOR METAL DECK. WELD ALL METAL DECK TO SUPPORTS AS NOTED ON PLAN.

TENSION LAP SPLICES FOR ALL OTHER BARS, GRADE 60						
CLASS A, B, LAP SPLICE LENGTHS (inches)						
BAR SIZE	CLASS	f _c = 3,000 PSI		f _c = 4,000 PSI		BAR SIZE
		A	B	A	B	
#3	CATEGORY	4	6	4	6	#6
#3		13	12	12	12	#4
#4		17	16	12	16	#5
#5		21	20	15	20	#6
#6		25	25	18	23	#7
#7		30	29	26	33	#8
#8		34	33	34	37	#9
#9		44	37	43	56	#10
#10		63	45	54	70	#11
#11		77	56	67	86	

COMPRESSION LAP SCHED.	
LAP LENGTH (inches)	
f _c = 4,000 PSI	
BAR SIZE	LAP LENGTH
#3	12
#4	15
#5	19
#6	23
#7	26
#8	30
#9	34
#10	38
#11	42

NOTES:

- PLAIN WELDED WIRE FABRIC IS TO BE LAPPED SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES IS GREATER THAN 2\"/>
- ALL SPLICES TO BE CLASS 'B' TENSION SPLICE UNLESS OTHERWISE NOTED.
- TABLES ARE BASED ON ACI CATEGORIES 4 & 6 WHERE MINIMUM SPACING IS 6 BAR DIAMETERS CENTER TO CENTER AND WHERE MINIMUM CONCRETE COVER IS ONE BAR DIAMETER USE CATEGORY 6 FOR LONGITUDINAL BARS IN BEAM, COLUMNS & INNER LAYER OF WALLS OR SLABS; USE CATEGORY 4 FOR ALL OTHER BARS.

TENSION LAP SPLICES FOR TOP BARS, GRADE 60						
CLASS A, B, LAP SPLICE LENGTHS (inches)						
BAR SIZE	CLASS	f _c = 3,000 PSI		f _c = 4,000 PSI		BAR SIZE
		A	B	A	B	
#3	CATEGORY	4	6	4	6	#6
#3		16	21	14	18	#4
#4		22	28	19	24	#5
#5		27	35	23	30	#6
#6		32	42	28	36	#7
#7		39	50	33	43	#8
#8		51	66	44	57	#9
#9		64	83	56	72	#10
#10		81	106	70	92	#11
#11		100	130	86	112	



I hereby certify that the portion of this technical memorandum, drawings, reports and prepared by me or under my direct supervision and responsibility comply with the laws of the State of Missouri.
 Name: **Marc H. Alper**
 Signature: **M. H. Alper**

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Wischmeyer
 THE WISCHMEYER ARCHITECTS

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 Family Health
 Center**

O'Fallon, Missouri

Revisions

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Sheet Contents
**GENERAL
 NOTES**

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