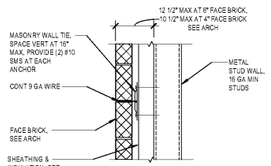
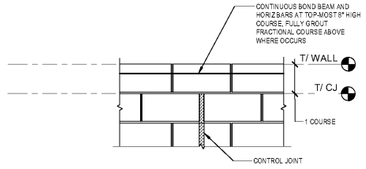
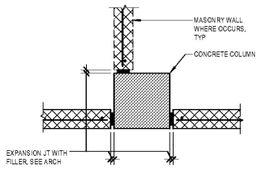


NOTE:
SEE ARCHITECTURAL DRAWINGS FOR FLASHING, WEEP VENTS AND INSULATION

14 TYPICAL FACE BRICK ON METAL STUD WALL
NTS

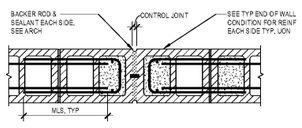


ELEVATION

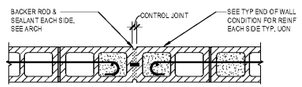


PLAN DETAIL

13 TYPICAL INTERFACE AT CONCRETE COLUMN
NTS



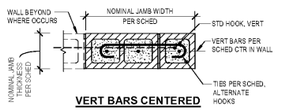
VERTICAL BAR BOTH FACE



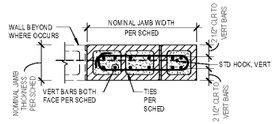
VERTICAL BARS CENTERED

NOTE:
1. AT TOP OF WALL AND AT TOP OF FLOOR ELEVATIONS, RUN HORIZONTAL STEEL THROUGH JOINTS. THERE ARE NO CONTROL JOINTS IN MASONRY FOUNDATION WALL BELOW THE LEVEL 1 ELEVATION, SEE ARCH FOR CONTROL JOINT LOCATIONS. DO NOT LOCATE JOINTS OVER OPENINGS OR WITHIN JAMBS OR LINTELS. FOR ADDITIONAL INFORMATION SEE SPECS.

10 TYPICAL CONTROL JOINT IN MASONRY WALL
NTS



VERT BARS CENTERED

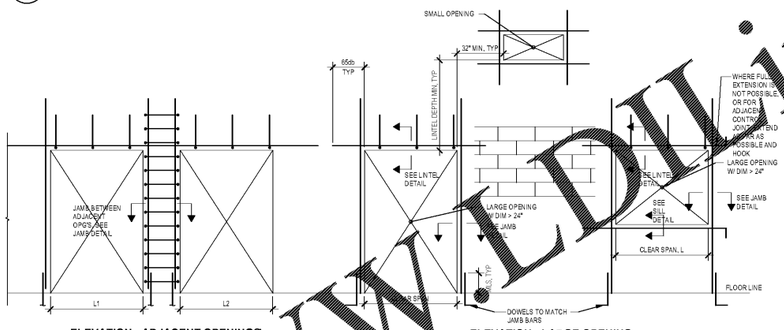


VERT BARS, BOTH FACE

SCHEDULE							
WALL MATERIAL	MAX h (SEE NOTE 1)	MAX OPENING WIDTH (SEE NOTE 2)	NOMINAL JAMB WIDTH	NOMINAL JAMB THICKNESS	VERT BARS	TIES	REMARKS

NOTES:
1. "h" IS HEIGHT OF WALL BETWEEN OUT-OF-PLANE LATERAL SUPPORTS.
2. MAXIMUM OPENING WIDTH IS "L" FOR SINGLE OPENING OR "L1 + L2" FOR JAMB BETWEEN ADJACENT OPENINGS. SEE ELEVATIONS IN TYPICAL REINFORCEMENT AT OPENINGS DETAIL.
3. NOTIFY STRUCTURAL ENGINEER OF RECORD IF JAMB WIDTHS NOTED CANNOT BE SATISFIED PRIOR TO CONSTRUCTION.
4. UNLESS INTERRUPTED BY A HEADER OR SILL OF ANOTHER OPENING, EXTEND JAMBS AS FOLLOWS:
   A. EXTEND JAMBS UP TO THE TOP OF CMU AT SINGLE-STORY WALLS AND TOP STORY OF MULTI-STORY WALLS.
   B. EXTEND JAMBS UP TO SLAB OF LEVEL ABOVE AT BOTTOM STORY OF MULTI-STORY WALLS.
   C. EXTEND JAMBS DOWN TO BOTTOM OF CMU ON LEVEL 1.
5. EXTEND TIES A FULL LAP SPLICE LENGTH ABOVE AND BELOW OPENINGS WHERE POSSIBLE.
6. 6" CMU TO BE BACKED UP BY COLD FORMED STEEL FRAMING FOR OUT OF PLANE LATERAL SUPPORT.
7. FOR JAMBS PENETRATED BY ELECTRICAL BOXES, INCREASE JAMB WIDTH BY 8", AND ADD ADDITIONAL REINFORCING ACCORDINLY.

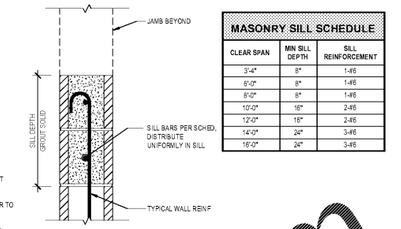
7 TYPICAL MASONRY WALL JAMB
NTS



ELEVATION - ADJACENT OPENINGS

ELEVATION - LARGE OPENING

6 TYPICAL REINFORCEMENT AT MASONRY WALL OPENINGS
1" = 1'-0"

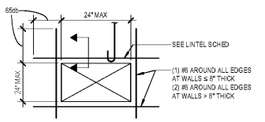


TYPICAL SILL SECTION

MASONRY SILL SCHEDULE		
CLEAR SPAN	MIN SILL DEPTH	SILL REINFORCEMENT
3'-4"	8"	1-#6
6'-0"	8"	1-#6
8'-0"	8"	1-#6
10'-0"	16"	2-#6
12'-0"	16"	2-#6
14'-0"	24"	3-#6
16'-0"	24"	3-#6

4 TYPICAL MASONRY WALL SILL
NTS

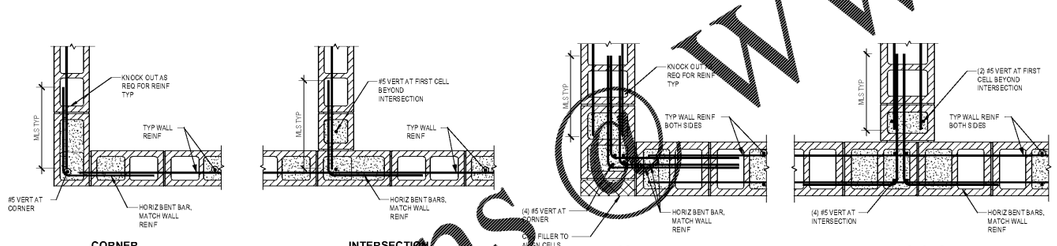
NOTES:
1. SEE DETAIL 6/S-813 FOR REQUIREMENTS FOR EMBEDDED CONDUITS AND BOXES IN WALLS. PIPES IN WALLS ARE NOT ALLOWED IN REINFORCED CELLS. ATTACH CONDUIT OR PIPE TO FACE OF WALLS. CONDUITS/PIPES THAT MUST PASS THROUGH WALLS SHALL BE PLACED THROUGH CORE HOLES OR BLOCK OUTS PROVIDED FOR THEIR USE WHENEVER POSSIBLE.
2. PENETRATIONS THROUGH WALLS SHALL BE AT RIGHT ANGLES TO WALL (+/- 10 DEGREES).
3. PENETRATIONS THROUGH REINFORCED MASONRY WALLS SHALL BE LOCATED 16" MINIMUM (HORIZONTAL DISTANCE) FROM DOOR/WINDOW JAMB CUT OUTS AND WALL ENDS AND LINTEL DEPTH MINIMUM (VERTICAL) ABOVE DOOR/WINDOW OPENINGS.
4. MINIMUM SPACING BETWEEN CENTERLINES OF PENETRATIONS (ANY SIZE) THROUGH REINFORCED MASONRY WALLS SHALL BE 3 TIMES THE DIMENSION OF THE LARGER PENETRATION.
5. SINGLE PENETRATIONS SMALLER THAN 6" DIMENSION THROUGH REINFORCED MASONRY WALLS WITH NO INTERFERENCE WITH WALL REINFORCEMENT, REQUIRE NO ADDITIONAL TRIM REINFORCEMENT. WHERE PENETRATIONS OR GROUPS OF PENETRATIONS SMALLER THAN 12" DIMENSION (MORE THAN TWO WITHIN 2'-0" DISTANCE) MUST PASS THROUGH THE REINFORCED WALL, PROVIDE TRIM REINFORCEMENT OR A BLOCK OUT AS SHOWN FOR SMALL OPENING.
6. AT PENETRATIONS THROUGH REINFORCED MASONRY WALLS LARGER THAN 6" DIMENSION AND SMALLER THAN 24" DIMENSION, PROVIDE TRIM REINFORCEMENT AS SHOWN FOR A SMALL OPENING.



ELEVATION - SMALL OPENING

7. AT PENETRATIONS THROUGH REINFORCED MASONRY WALLS LARGER THAN 24" IN DIMENSION, PROVIDE JAMB BARS AS SHOWN FOR A LARGE OPENING.
8. SEE DETAIL 6/S-813 FOR SMALL BOX PENETRATIONS IN MASONRY WALLS.

3 TYPICAL MASONRY WALL PENETRATION NOTES
1" = 1'-0"



CORNER | INTERSECTION

CMU WALL WITH VERTICAL BARS CENTERED

CORNER | INTERSECTION

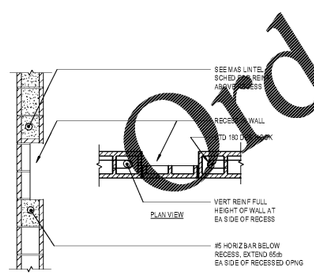
CMU WALL WITH VERTICAL BARS BOTH FACE

9 TYPICAL MASONRY WALL CORNERS AND INTERSECTIONS
1" = 1'-0"

MASONRY REINFORCEMENT BAR LAP SPLICE SCHEDULE (MLS)							
MASONRY STRENGTH f'm = 1500 PSI							
BAR SIZE	BAR AT CENTER OF:				K		
	6" CMU	8" CMU	10" CMU	12" CMU	1 1/2"	2"	2 1/2"	3"
# 3	18"	18"	18"	18"	18"	18"	18"	18"
# 4	24"	24"	24"	24"	30"	24"	24"	24"
# 5	30"	30"	30"	30"	45"	35"	30"	30"
# 6	49"	38"	36"	36"	54"	54"	52"	43"
# 7	-	49"	42"	42"	63"	63"	63"	56"

NOTES:
1. WHERE LAP SPLICE OCCURS BETWEEN BARS OF DIFFERING SIZE THE LAP SPLICE LENGTH SHALL BE BASED ON THE LARGER BAR.
2. FOR REINFORCEMENT NOT AT THE CENTER OF WALL, USE VALUE OF K TO DETERMINE LAP SPLICE LENGTH, WHERE K IS THE SMALLEST OF:
   A. MINIMUM MASONRY COVER.
   B. CLEAR SPACING BETWEEN ADJACENT REINFORCEMENT SPLICES
   C. 9db.

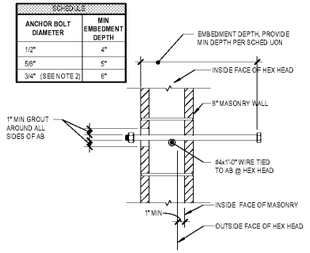
2 TYPICAL MASONRY REINF BAR LAP SPLICE SCHEDULE
1/2" = 1'-0"



SECTION

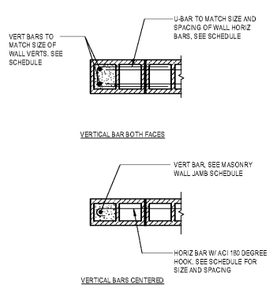
11 TYPICAL MASONRY WALL RECESS DETAILS
3/4" = 1'-0"

SCHEDULE	
ANCHOR BOLT DIAMETER	MIN EMBEDMENT DEPTH
1/2"	4"
5/8"	5"
3/4" (SEE NOTE 2)	6"



NOTES:
1. ALL AB SHALL BE ACCURATELY SET WITH TEMPLATES.
2. FOR 8" CMU, EMBEDMENT FOR 3/4" DIAMETER ANCHOR BOLT SHALL BE 4 3/4".

8 TYPICAL ANCHOR BOLT IN MASONRY WALL
NTS



5 TYPICAL MASONRY WALL ENDS
NTS

CMU WALL SCHEDULE						
ARCHITECTURAL WALL TYPE(S)	PLAN MARK SEE NOTE 12	NOMINAL CMU THICKNESS (IN)	GROUT	REINFORCING		REMARKS
				VERTICAL	HORIZONTAL	

1 TYPICAL MASONRY WALL SCHEDULE
NTS

MASONRY NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS AND WALL TYPES.
2. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. CLOSED END UNITS ARE SHOWN IN TYPICAL DETAILS. OPEN END UNITS ARE PERMITTED WHERE UNITS ARE GROUTED.
4. REINFORCE WALLS PER MASONRY WALL SCHEDULE, UNLESS OTHERWISE NOTED. FOR 8" CMU, PROVIDE SINGLE CURTAIN OF REINFORCEMENT, PLACE VERTICAL REINFORCEMENT AT CENTER OF WALL. FOR 12" CMU, PROVIDE DOUBLE CURTAIN OF REINFORCEMENT, 2" CLEAR COVER TO VERTICAL BARS, MEASURED FROM OUTSIDE FACE OF CMU.
5. VERTICAL BARS SHALL BE SECURED WITH WIRE POSITIONERS, ETC... AT INTERVALS NOT TO EXCEED 48".
6. BOND ALL CORNERS AND INTERSECTIONS IN ACCORDANCE WITH TYPICAL MASONRY WALL REINFORCING PLAN DETAILS.
7. FOR PARTIALLY GROUTED WALLS, GROUT ALL CELLS WITH REINFORCEMENT AND FRACTIONAL BLOCK COURSES WHERE NOTED. IN ADDITION, FULLY GROUT BOTTOM 4'-0" OF WALLS WHERE NOTED ON ARCHITECTURAL DRAWINGS.
8. AT FULLY GROUTED WALLS, GROUT ALL CELLS.
9. EMBEDMENT SHALL BE 65db INTO MASONRY. SEE TYPICAL CONCRETE DETAILS FOR BAR EMBEDMENTS INTO CONCRETE.
10. PROVIDE CONTROL JOINTS IN MASONRY WALLS AT 26'-0" MAX SPACING, UNLESS OTHERWISE NOTED. WALLS WITH OPENINGS MAY HAVE CONTROL JOINTS SPACED AT 40'-0" MAX. WALL CORNERS ARE TO HAVE A CONTROL JOINT ON ONE SIDE WITHIN 2'-0" AT THE CORNER.
11. DO NOT PUT MASONRY CONTROL JOINTS WITHIN 48" OF OPENINGS.
12. SEE DETAIL 8/S-812 FOR THICKENED SLAB FOOTING UNDER MASONRY WALL PER PLAN MARK.

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Sheet Title
TYPICAL MASONRY WALL DETAILS

Original is 30 x 42. Do not scale contents of this drawing.

Sheet Number
S701

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