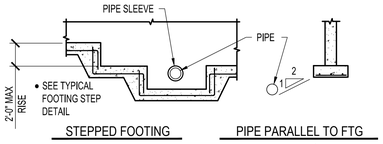
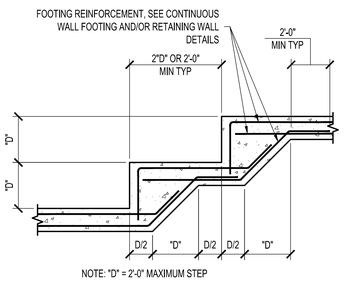
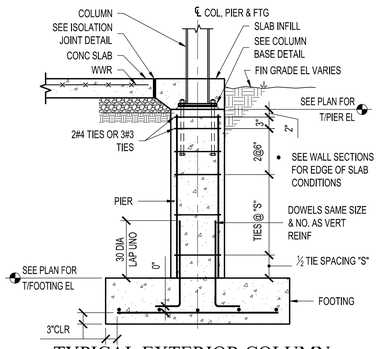


CONTRACTOR HAS OPTION TO STEP FOOTING, SLEEVE PIPE THRU FOOTING, OR BACKFILL EXCAVATION FOR UTILITY WITH CONCRETE AS SHOWN.

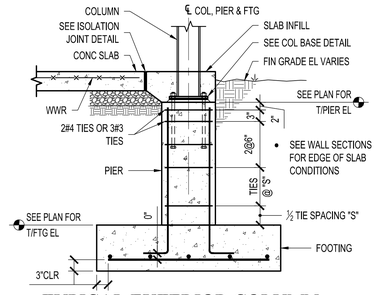
A TYPICAL FOOTING AT PIPES



B TYPICAL FOOTING STEP

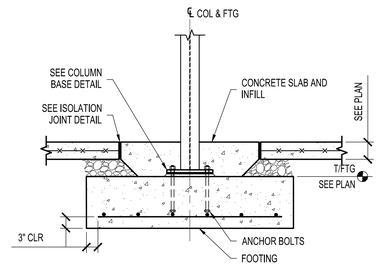


C TYPICAL EXTERIOR COLUMN FOOTING w/CONCRETE PIER



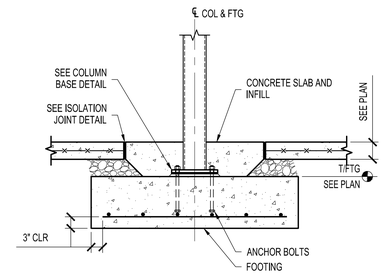
D TYPICAL EXTERIOR COLUMN FOOTING w/SHORT CONCRETE PIER

USE WHEN PIER HEIGHT IS LESS THAN 6'



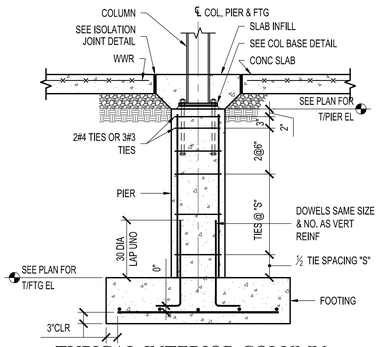
E TYPICAL INTERIOR COLUMN FOOTING

(WIDE FLANGE COLUMN)

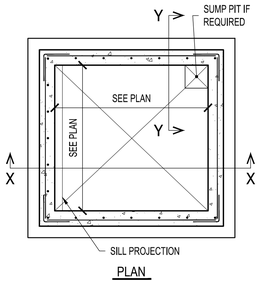


F TYP INTERIOR COLUMN FOOTING

(HSS COLUMN)

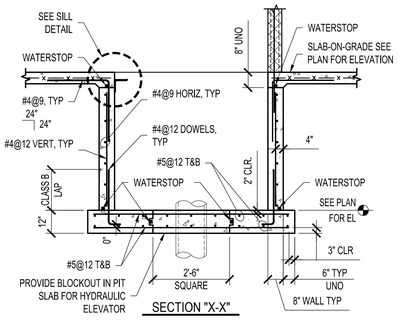


G TYPICAL INTERIOR COLUMN FOOTING w/CONCRETE PIER



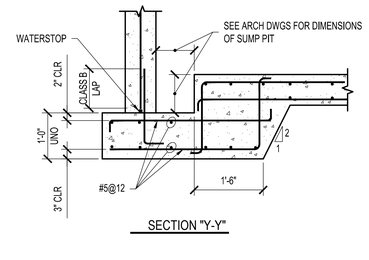
H TYPICAL ELEVATOR PIT

(8" WALLS)



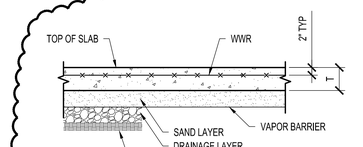
I CONCRETE ELEVATOR PIT

(8" WALLS)

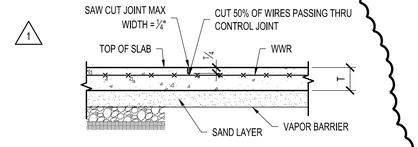


J CONCRETE ELEVATOR SUMP PIT

(8" WALLS)

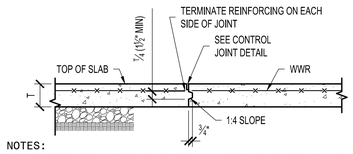


K TYPICAL SLAB ON GRADE CONSTRUCTION



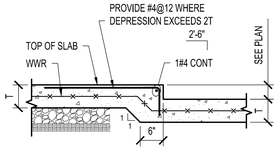
NOTES:
1. SAW CUT SLAB 15' TO 24' ON CENTER IN EACH DIRECTION. SAW CUT AS SOON AS SURFACE IS FIRM ENOUGH NOT TO BE DAMAGED BY SAW CUTTING BUT BEFORE RANDOM SHRINKAGE CRACKS CAN OCCUR.
2. FILL WITH BACKER ROD AND JOINT SEALANT WHERE REQUIRED.

L SLAB ON GRADE SAW CUT CONTROL JOINT

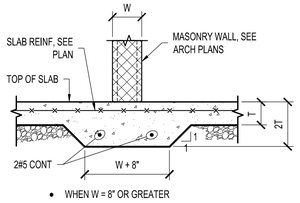


NOTES:
1. CONSTRUCTION JOINT TO BE LOCATED AT CONTROL JOINT LOCATIONS.
2. IF METAL KEY IS USED, HOLD TOP OF KEY ½" BELOW TOP OF SLAB.
3. APPLY BOND BREAKER TO VERTICAL SURFACE OF JOINT.

M SLAB ON GRADE KEYED CONSTRUCTION JOINT

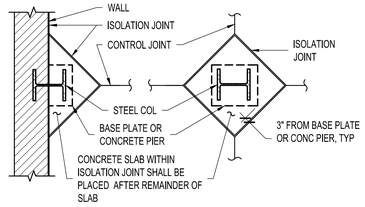


N SLAB ON GRADE SLAB DEPRESSION

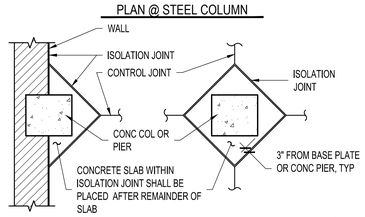


• WHEN W = 8" OR GREATER

O THICKENED SLAB UNDER NON-BEARING MASONRY WALLS



PLAN @ STEEL COLUMN



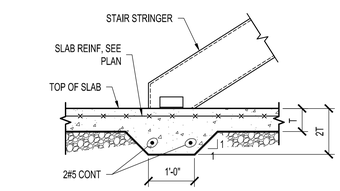
PLAN @ CONCRETE COLUMN

CLASS 'B' TENSION LAP SPLICE [Lb] (in)				
		F'c = 4 ksi		
BAR SIZE	LOCATION	MEMBERS WITH BAR SPACING >=2db & CLEAR COVER >=db	BEAMS OR COLUMNS SEE NOTE 2	OTHER CASES
#3	TOP BARS	25	25	37
	OTHER BARS	20	20	29
#4	TOP BARS	33	33	49
	OTHER BARS	25	25	38
#5	TOP BARS	41	41	62
	OTHER BARS	32	32	47
#6	TOP BARS	49	49	73
	OTHER BARS	38	38	56
#7	TOP BARS	71	71	106
	OTHER BARS	55	55	82
#8	TOP BARS	81	81	121
	OTHER BARS	62	62	93
#9	TOP BARS	91	91	137
	OTHER BARS	70	70	106
#10	TOP BARS	102	102	154
	OTHER BARS	79	79	119
#11	TOP BARS	114	114	171
	OTHER BARS	88	88	132

NOTES:
1. VALUES ARE PER ACI 318-05 AND ARE BASED ON N. WT. CONCRETE, GRADE 60 (Fy=60 ksi) UNCOATED REINFORCING.
2. WITH ALL OF THE FOLLOWING CONDITIONS: CLEAR SPACING >= db, CLEAR COVER >= db, AND MIN TIES FOR COLUMNS AND MIN STIRRUPS FOR BEAMS THROUGHOUT THE DEVELOPMENT LENGTH.
3. db = REINFORCING BAR DIAMETER.
4. MULTIPLY VALUES BY 1.5 FOR EPOXY COATED REINFORCING WITH COVER < 3db OR CLEAR SPACING < 6db. MULTIPLY VALUES BY 1.2 FOR ALL OTHER EPOXY COATED REINFORCING.
5. MULTIPLY VALUES BY 1.3 WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED.
6. Lb IS CLASS 'B' TENSION LAP SPLICE. Lbt IS CLASS 'B' TENSION LAP SPLICE FOR TOP BARS. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW
7. BAR SPACING = CENTER TO CENTER SPACING BETWEEN BARS. WHEN MULTIPLE BARS LOCATED IN THE SAME PLANE ARE SPLICED AT THE SAME SECTION, THE CENTER TO CENTER SPACING IS THE MINIMUM DISTANCE BETWEEN BAR AND ADJACENT SPLICED BAR.

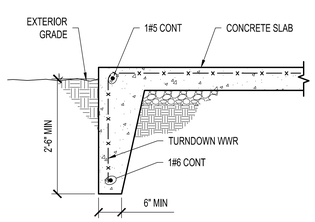
TENSION DEVELOPMENT LENGTHS [Ld] & CLASS 'A' TENSION LAP SPLICE [La] (in)				
		F'c = 4 ksi		
BAR SIZE	LOCATION	MEMBERS WITH BAR SPACING >=2db & CLEAR COVER >=db	BEAMS OR COLUMNS SEE NOTE 2	OTHER CASES
#3	TOP BARS	19	19	28
	OTHER BARS	15	15	22
#4	TOP BARS	25	25	37
	OTHER BARS	19	19	29
#5	TOP BARS	31	31	47
	OTHER BARS	24	24	36
#6	TOP BARS	37	37	56
	OTHER BARS	29	29	43
#7	TOP BARS	54	54	81
	OTHER BARS	42	42	63
#8	TOP BARS	62	62	93
	OTHER BARS	48	48	72
#9	TOP BARS	70	70	105
	OTHER BARS	54	54	81
#10	TOP BARS	79	79	118
	OTHER BARS	61	61	91
#11	TOP BARS	87	87	131
	OTHER BARS	67	67	101

NOTES:
1. VALUES ARE PER ACI 318-05 AND ARE BASED ON N. WT. CONCRETE, GRADE 60 (Fy=60 ksi) UNCOATED REINFORCING.
2. WITH ALL OF THE FOLLOWING CONDITIONS: CLEAR SPACING >= db, CLEAR COVER >= db, AND MIN TIES FOR COLUMNS AND MIN STIRRUPS FOR BEAMS THROUGHOUT THE DEVELOPMENT LENGTH.
3. db = REINFORCING BAR DIAMETER.
4. MULTIPLY VALUES BY 1.5 FOR EPOXY COATED REINFORCING WITH COVER < 3db OR CLEAR SPACING < 6db. MULTIPLY VALUES BY 1.2 FOR ALL OTHER EPOXY COATED REINFORCING.
5. MULTIPLY VALUES BY 1.3 WHEN LIGHTWEIGHT AGGREGATE CONCRETE IS USED.
6. Ldt IS TENSION DEVELOPMENT LENGTH FOR TOP BARS. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW.
7. La CLASS 'A' TENSION LAP SPLICE IS EQUAL TO TENSION DEVELOPMENT LENGTH Ld.
8. BAR SPACING = CENTER TO CENTER SPACING BETWEEN BARS. WHEN MULTIPLE BARS LOCATED IN THE SAME PLANE ARE SPLICED AT THE SAME SECTION, THE CENTER TO CENTER SPACING IS THE MINIMUM DISTANCE BETWEEN BAR AND ADJACENT SPLICED BAR.

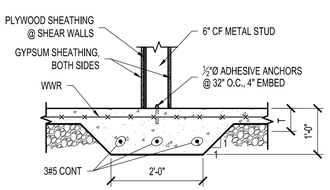


NOTE: EXTEND THICKENED SLAB 1'-0" BEYOND WIDTH OF STAIR

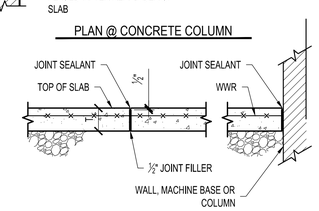
P THICKENED SLAB ON GRADE UNDER STAIRS



Q TYPICAL TURNDOWN SLAB



R THICKENED SLAB UNDER INTERIOR CF BEARING/SHEAR WALLS



SECTION

S SLAB ON GRADE ISOLATION JOINT

FINAL CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Revisions	Date
1 ADDENDUM - BID RFI	09/14/18

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Drawing Title: [redacted]

Approved: Project Director

Project Title: REPLACEMENT COMMUNITY LIVING CENTER

Location: PERRY POINT VA MEDICAL CENTER

Date: 06/08/2018 | Checked: CEI | Drawn: CEI

Project Number: 512-173

Building Number: 370

Drawing Number: S301

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231