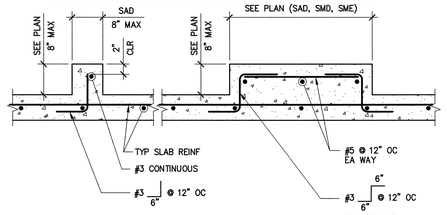
NOTES:

1. AT CONTRACTORS OPTION CONTRACTOR MAY PLACE CURB OR PAD AFTER SLAB PLACEMENT PER 14

2. PROVIDE CONTROL JOINT PER 10 IN CURB OR PAD TO CORRELATE DIRECTLY WITH SLAB ON GRADE. INTERRUPT ½ OF ALT. BARS IN PAD AT CONTROL JOINT LOCATION SIM. TO 10



A CURB

B PAD

13 TYPICAL CURB AND PAD PLACED MONOLITHICALLY Scale: NTS

NOTES:

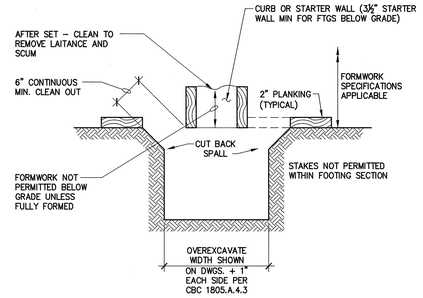
1. CURB OR PAD WHEN PLACED AFTER CONC. SLAB, SHALL BE PLACED MIN 28 DAYS LATER.

2. PROVIDE CONTROL JOINT PER 10 IN CURB OR PAD TO CORRELATE DIRECTLY WITH SLAB ON GRADE.

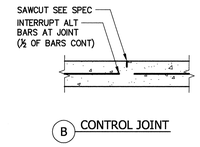
A CURB

B PAD

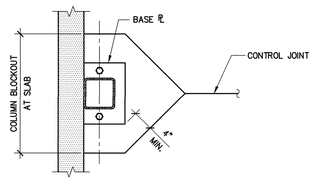
14 TYPICAL CURB AND PAD PRIOR TO SLAB PLACEMENT Scale: NTS



9 MANDATORY MINIMUM FORMWORK AND FOUNDATION EXCAVATION REQUIREMENTS Scale: NTS

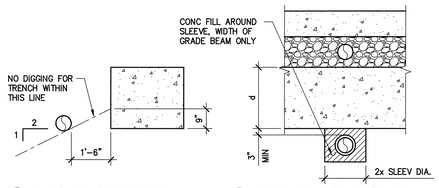


B CONTROL JOINT



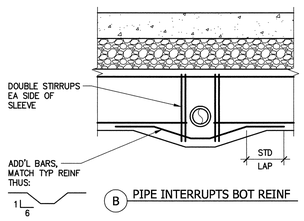
A PLAN VIEW AT COLUMN

10 SLAB-ON-GRADE CONTROL JOINT Scale: NTS

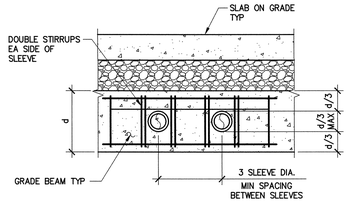


C PIPES ADJACENT TO FTG

C PIPES ABOVE OR BELOW BEAM



B PIPE INTERRUPTS BOT REINF



A PIPE IN MIDDLE THIRD OF BEAM

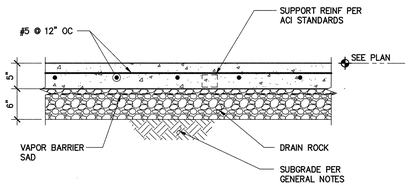
NOTES:

1. DO NOT CUT OR INTERRUPT GRADE BEAM REINFORCING.
2. MAXIMUM OUTER DIAMETER FOR SLEEVES IS d/3.
3. FOR SIZE AND LOCATION OF PIPES S.P.D., S.E.D., S.A.D., S.M.D.
4. LENGTH OF SLEEVE = WIDTH OF GRADE BEAM.
5. FOR PIPES PARRALEL TO GRADE BEAM SEE DETAIL 12C
6. PIPES SHALL NOT BE PLACED LONGITUDINALLY INSIDE GRADE BEAM.

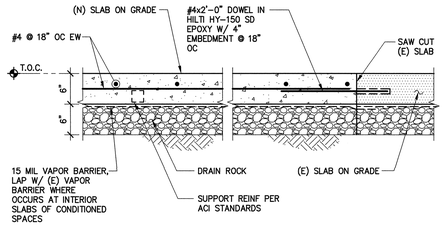
PIPE WITHOUT SLEEVE

PIPE WITH SCHEDULE 40 STEEL SLEEVE, 1" CLR ALL AROUND

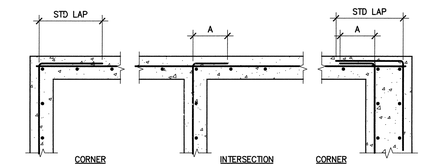
12 TYPICAL PIPE AND SLEEVE AT WALL FTG. Scale: NTS



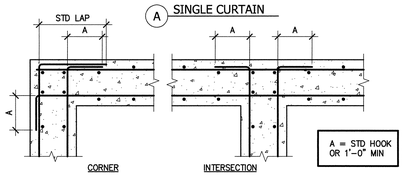
5 TYPICAL SLAB ON GRADE Scale: 1"=1'-0"



6 NEW SLAB ON GRADE AT EXISTING SLAB Scale: 1"=1'-0"



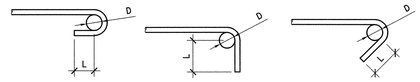
A SINGLE CURTAIN



B DOUBLE CURTAIN

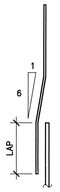
7 TYP CONC FOOTING/WALL REINFORCING AT CORNERS AND INTERSECTIONS Scale: NTS

REBAR SIZE	MAIN REINFORCING			STIRRUPS & TIES		
	D	180° HOOK L	90° HOOK L	D	90° HOOK L	135° HOOK L
#3	2¼"	4"	6"	1½"	3¾"	3"
#4	3"	4½"	8"	2"	4½"	3"
#5	3¾"	5"	10"	2½"	5¾"	3¾"
#6	4½"	6"	12"	4½"	12"	4½"
#7	5¼"	7"	14"	5¼"	14"	5¼"
#8	6"	8"	16"	6"	16"	6"
#9	9½"	10¾"	19½"			
#10	10¾"	11½"	22"			
#11	12"	12¾"	24½"			
#14	18¼"	17"	31¼"			



A 180° HOOK B 90° HOOK C 135° HOOK

1 TYPICAL REBAR BENDS AND HOOKS Scale: NTS

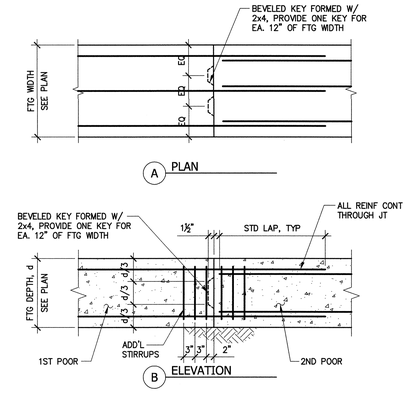


CONCRETE STRENGTH	f'c = 3000 PSI				f'c = 4000 PSI			
CLASS OF LAP SPLICE	CLASS "A"		CLASS "B"		CLASS "A"		CLASS "B"	
BAR SIZE / CASE	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS	BOTTOM BARS	TOP BARS
#3	1'-4"	1'-9"	1'-9"	2'-4"	1'-2"	1'-6"	1'-6"	2'-0"
#4	1'-10"	2'-4"	2'-4"	3'-1"	1'-7"	2'-1"	2'-4"	3'-1"
#5	2'-1"	3'-0"	3'-0"	3'-10"	2'-0"	2'-7"	3'-0"	3'-10"
#6	2'-9"	3'-7"	3'-7"	4'-8"	2'-4"	3'-1"	3'-7"	4'-8"
#7	4'-0"	5'-2"	5'-2"	6'-9"	3'-6"	4'-6"	5'-2"	6'-9"
#8	4'-7"	5'-11"	5'-11"	7'-9"	3'-11"	5'-2"	5'-11"	7'-9"
#9	5'-2"	6'-10"	6'-10"	8'-8"	4'-5"	5'-9"	6'-8"	8'-8"
#10	5'-8"	7'-11"	7'-11"	9'-8"	4'-11"	6'-5"	7'-5"	9'-8"
#11	6'-3"	8'-2"	8'-2"	10'-7"	5'-5"	7'-1"	8'-2"	10'-7"

NOTES:

1. USE THE CLASS B LAP SPLICE LENGTHS, MULTIPLIED BY THE APPLICABLE FACTOR(S) LISTED BELOW,UNLESS OTHERWISE NOTED.
2. WHERE THE CLEAR SPACING OF BARS BEING SPLICED IS LESS THAN 2 BAR DIAMETERS, INCREASE THE LAP BY 50%.
3. WHERE THE BAR COVER IS LESS THAN OR EQUAL TO THE BAR DIAMETER, INCREASE THE LAP LENGTH BY 50%.
4. CLASS A SPLICES MAY ONLY BE USED WHERE NOTED ON THE DRAWINGS.
5. TOP BARS ARE ALL HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
6. LAP SPLICE LENGTHS IN TABLE ARE FOR NORMAL WEIGHT CONCRETE. WHERE LIGHTWEIGHT CONCRETE IS USED, INCREASE LAP SPLICE LENGTHS BY 30%.
7. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
8. SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.

2 LAP SPLICE LENGTHS AND DEVELOPMENT Scale: NTS



A PLAN

B ELEVATION

4 TYPICAL CONSTRUCTION JOINT AT GRADE BEAM/CONTINUOUS FOOTING Scale: NTS

noll & tam
architects and planners
729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

KPW
KILAND + PASSAGLIA + WESTPHAL
STRUCTURAL ENGINEERS, INC
130 WEBSTER STREET
SUITE 200
OAKLAND, CA 94607
V. 510 208-3300
F. 510 208-3303
WWW.KPWSE.COM

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPLICATION NUMBER 01-111618
AC — PLS — DATE 2/9/11

CALIFORNIA STATE FIRE MARSHAL APPROVED

APPROVAL OF THIS PLAN DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM APPLICABLE REGULATIONS. FINAL APPROVAL IS SUBJECT TO FIELD INSPECTION. ONE SET OF APPROVED PLANS SHALL BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.

REVIEWED BY: _____ DATE: _____

CAÑADA COLLEGE

Electrical Infrastructure Replacement Project

4200 Farm Hill Blvd
Redwood City, CA 94061

REGISTERED PROFESSIONAL ENGINEER — JOSEPH K. WESTPHAL — No. 4575 Exp. 6-30-11 — STRUCTURAL — STATE OF CALIFORNIA

BID SET

SHEET TITLE
TYPICAL CONCRETE DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

DATE January 14, 2011
DRAWN PIL
CHECKED JKW
SCALE
JOB NO. 2921.01

SHEET NUMBER
S5.1