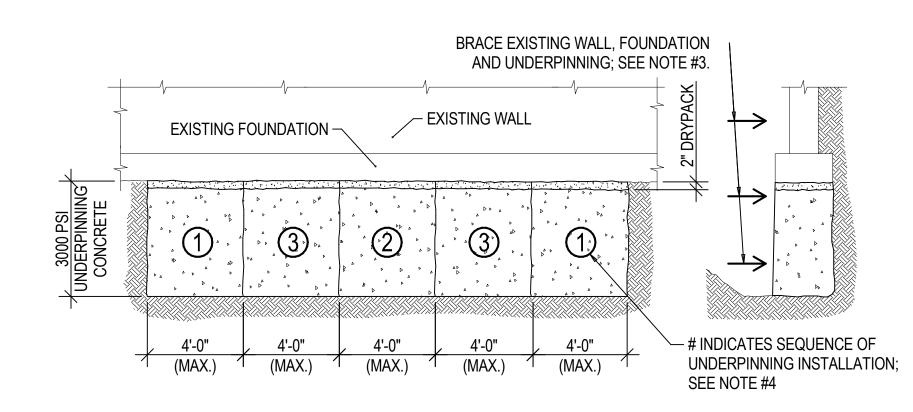
1. WHERE CONCRETE OR REINFORCED CMU WALLS BEAR ON

THE FOOTING INSTALL WALL DOWELS INTO THE FOOTING. 2. INSTALL WALL FOOTING REINFORCING CONTINUOUS

THROUGH INTERSECTING SPREAD FOOTINGS.

3. FINAL LOCATIONS WHERE LEAN CONCRETE IS REQ'D SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL ROCK ELEVATIONS.

SPREAD FOOTING SUPPORTING STEEL COLUMN



1. UNDERPINNING BELOW EXISTING FOUNDATIONS SHALL BE CONTINUOUS AND SHALL BEAR ON UNDISTURBED SOIL. 2. BEARING STRATUM SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF UNDERPINNING

CONCRETE. THE GEOTECHNICAL ENGINEER SHALL BE A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT'S JURISTICTION.

3. THE EXISTING WALL AND FOUNDATION AND THE NEW UNDERPINNING SHALL BE BRACED TO RESIST LATERAL EARTH PRESSURE. THE DESIGN OF THE BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER WHO SHALL BE A LICENCED PROFESSIONAL ENGINEER IN THE PROJECT'S JURISTICTION. DESIGN CALCULATIONS AND DRAWINGS FOR THE BRACING, SIGNED AND SEALED BY THAT ENGINEER SHALL BE SUBMITTED PRIOR TO CONSTRUCTION

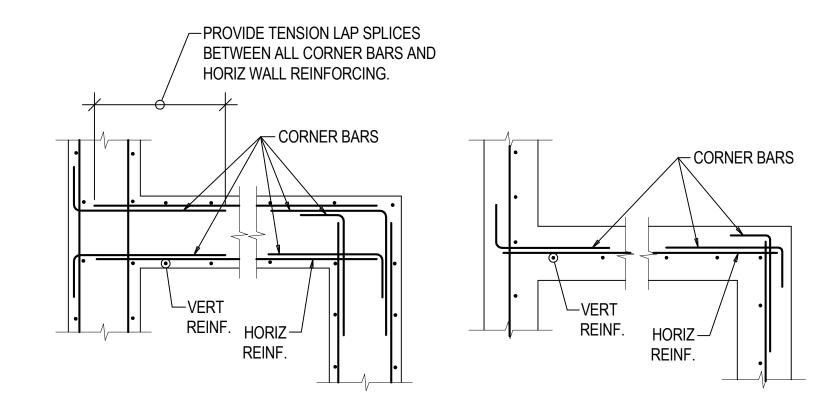
4. UNDERPINNING CONCRETE SHALL BE INSTALLED IN 4'-0" WIDE (MAXIMUM) SEGMENTS AND SHALL BE INSTALLED IN THE SEQUENCE INDICATED ABOVE UNLESS

CONCRETE IN ADJACENT SEGMENT IS AT LEAST FOUR DAYS OLD. 5. ALLOW UNDERPINNING CONCRETE TO CURE FOR 24 HOURS BEFORE DRYPACKING TO UNDERSIDE OF FOUNDATION.

6. DO NOT EXCAVATE BELOW EXISTING FOUNDATION UNTIL DRYPACK HAS BEEN INSTALLED UNDER ALL PREVIOUSLY INSTALLED SEGMENTS OF UNDERPINNING.

7. EXCAVATION FOR INDIVIDUAL SEGMENTS OF UNDERPINNING AND APPROACH EXCAVATION TO EACH SEGMENT SHALL BE DUG ONE SECTION AT A TIME.

UNDERPINNING BELOW



HORIZONTAL CORNER BARS SHALL MATCH SIZE AND SPACING OF HORIZONTAL REINFORCING.

CORNER REINFORCING IN CONCRETE WALLS

SPREAD FOOTING SCHEDULE (20 KSF ALLOWABLE BEARING PRESSURE) REINFORCEMENT MARK (EACH WAY BOTTOM, UNO) WIDTH | LENGTH | DEPTH F40 4'-0" 10-#4 4'-0" 2'-0" F46 4'-6" 4'-6" 2'-0" 13-#4 F50 5'-0" 5'-0" 2'-2" 11-#5 F56 5'-6" 5'-6" 2'-4" 13-#5 6'-0" 2'-6" 6'-0" 11-#6 F66 2'-9" 13-#6 6'-6" F70 7'-0" 7'-0" 2'-10" 11-#7 F76 7'-6" 7'-6" 3'-1" 13-#7 F80 8'-0" 8'-0" 3'-3" 11-#8 8'-6" 8'-6" 3'-5" 13-#8

SPREAD FOOTING SCHEDULE

TENSION LAP SPLICE (TYP.)

PIER IN CORNER OF WALL

F(4)8550

IN-WALL PIER

√_#4] @12" WHERE

DIM. "A" OR "B" < 6"

1. SEE SCHEDULE FOR PIER DIMENSIONS AND REINFORCING.

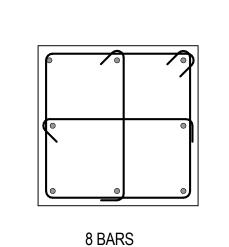
2. CONSTRUCT AJOINING CONCRETE WALLS MONOLITHIC WITH PIERS.

TO PERMIT PROPER PLACEMENT OF PIER REINFORCING STEEL

3. INSTALL HORIZONTAL WALL REINFORCING STEEL CONTINUOUS THROUGH INTERSECTING

PIERS OR SPLICE HORIZONTAL REINFORCING WITH TENSION LAP SPLICES IF REQUIRED

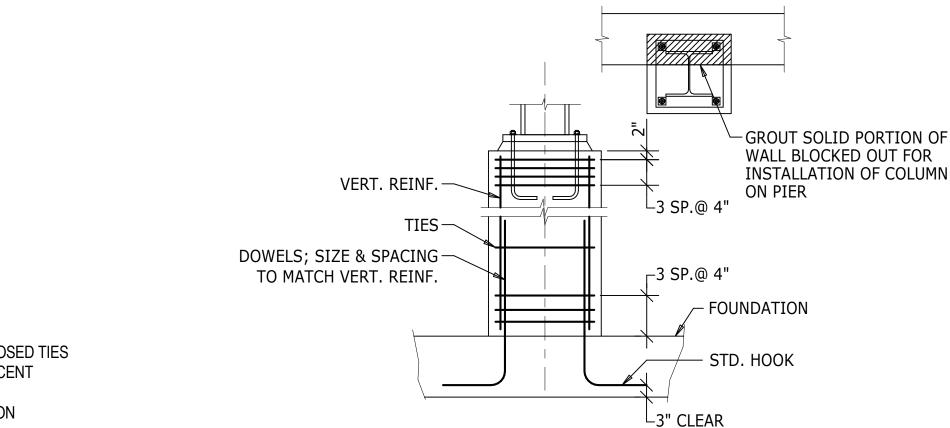
CONCRETE PIER & WALL INTERFACE



1. ALTERNATE THE LOCATION OF CORNER HOOKS ON CLOSED TIES AROUND THE PERIMETER OF THE PIER BETWEEN ADJACENT

CORNERS ON SUCCESSIVE SETS OF TIES. 2. ALTERNATE THE LOCATION OF THE 90° & 135° HOOKS ON SUCCESSIVE SETS OF TIES.

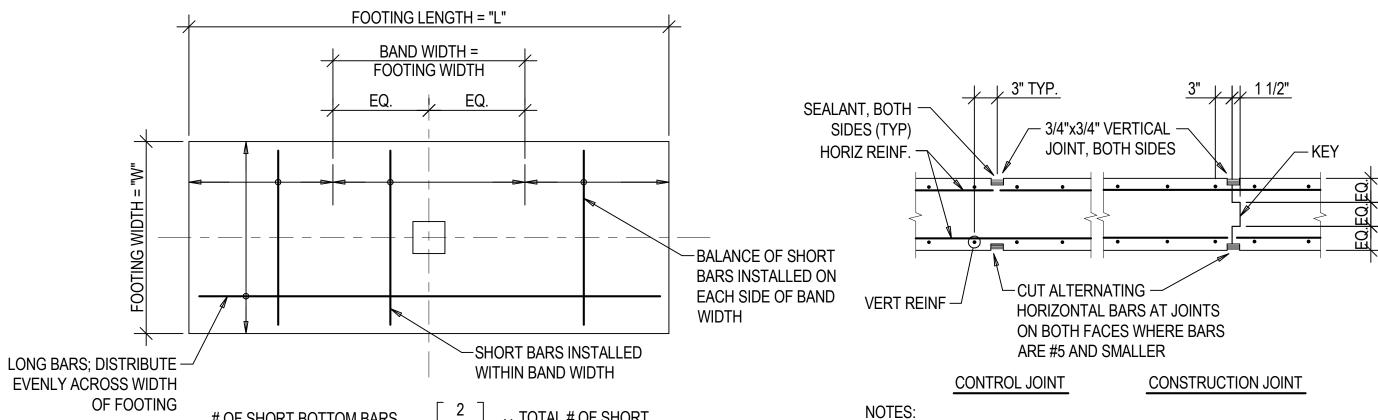
CONCRETE PIER VERTICAL REINF STEEL AND TIE BAR ARRANGEMENTS



CONCRETE PIER SCHEDULE			
MARK	DIMENSIONS	VERT. REINF.	TIES*
P1	30"x30"	8-#8	#3@16"
P2	24"x24"	4-#8	#3@16"
P3	38"x62"	24-#9	#4@18"

* LOCATE TOP TIE 2" CLEAR BELOW TOP OF PIER; PROVIDE FOUR ADDITIONAL TIES @ 4" O.C. BELOW TOP TIE; INSTALL BOTTOM TIE 6" MAX ABOVE TOP OF FOOTING.

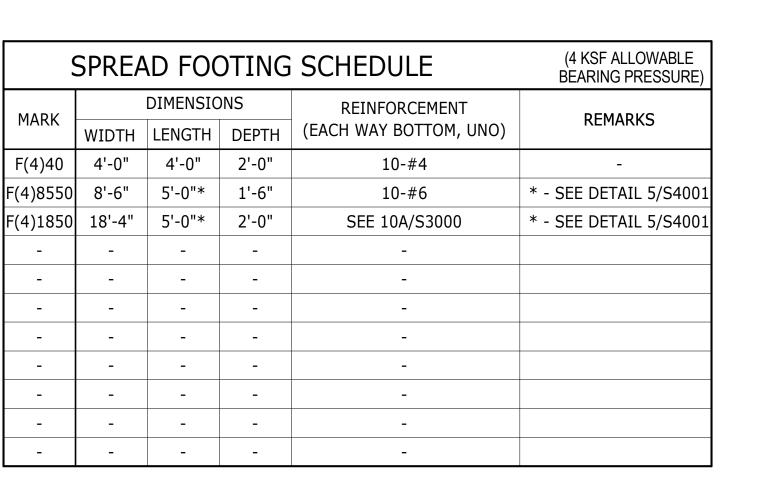




1. VERTICAL CONSTRUCTION AND CONTROL JOINTS NOT PERMITTED IN SHEAR WALLS. 2. PROVIDE CONSTRUCTION OR CONTROL JOINTS AT 25'-0" MAXIMUM SPACING. 3. LOCATE FIRST JOINT 15'-0 (MAX) FROM CORNER.

4. JOINT LOCATIONS AND DETAILS TO BE APPROVED BY ARCHITECT & STRUCTURAL





- ADD'L REINF. SAME SIZE & SPACING

—#4] @12" WHERE

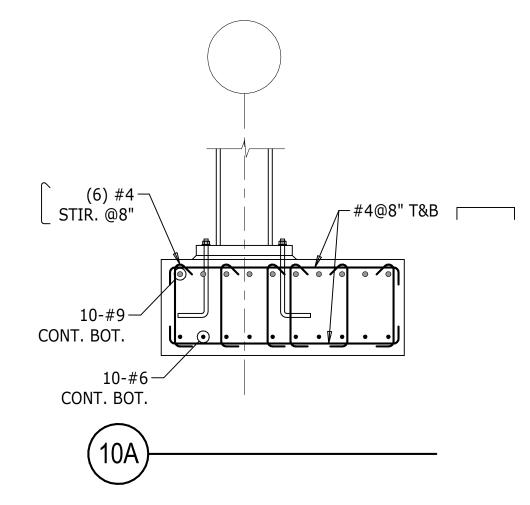
PIER PROTRUDING FROM WALL

AS INTERRUPTED HORIZ. REINF.

- INTERRUPT HOR. REINF.

IN WALL AT PIER





INSTALLED WITHIN BAND WIDTH

RECTANGULAR FOOTING

DISTRIBUTION OF REINFORCING STEEL

BUCKS COUNTY JUSTICE CENTER Doylestown, PA

County of Bucks



Prepared For

HOK 620 Sixth Avenue 6th Floor New York, NY 10011 USA t +1 212 741 1200 f +1 212 633 1163

Canal House 3223 Grace St. N.W. Washington, DC 20007 USA *t* +1 202 944 1500 *f* +1 202 339 8800

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THE HARMAN GROUI 900 West Valley Forge Road, Suite 200 King of Prussia, PA 19406-4525 610.337.3360 vc • 610.337.3359 fx • www.harmangroup.com

Key Plan

No. Issue Description 100% SCHEMATIC DESIGN 2009/10/01 100% DESIGN DEVELOPMENT 2010/03/12 PLAZA WALL DESIGNS 70% SUBMISSION 2010/08/09 ISSUED FOR BID 2010/09/27 No. Revision Description

Drawn by JAD

/ 208104.00

Project No 09.07001.00

TYPICAL DETAILS