

DIAMOND-SHAPED -

SECURE

- STEEL COL PER PLAN

AS NEEDED

RE: TO PLAN

STEEL BASE PLATE

3/4" = 1'-0"

— EXPANSION BOLTS

REINF. PER SCHED.

— PLATE ON LEVEL SURFACE

SET w/ NON SHRINK GROUT

BLOCK-OUT FOR COLUMN.

CONC. PAD FOOTING PER -

PLAN AND SCHEDULE

CONC. SLAB PER PLAN -

FILL w/ CONC. AFTER COL. IS

-BEAM POCKET,

SOLID GROUT.

OPENING

(1) # 5 BAR 24"

MIN. LENGTH

SIZE PER PLAN.

RE: REINFORCING SCHEDULE TOP BAR,

TURN 90° @ EDGE OF

RE: REINFORCING

CONTINUOUS TOP BAR, BEYOND

RE: REINFORCING -

SCHEDULE TOP

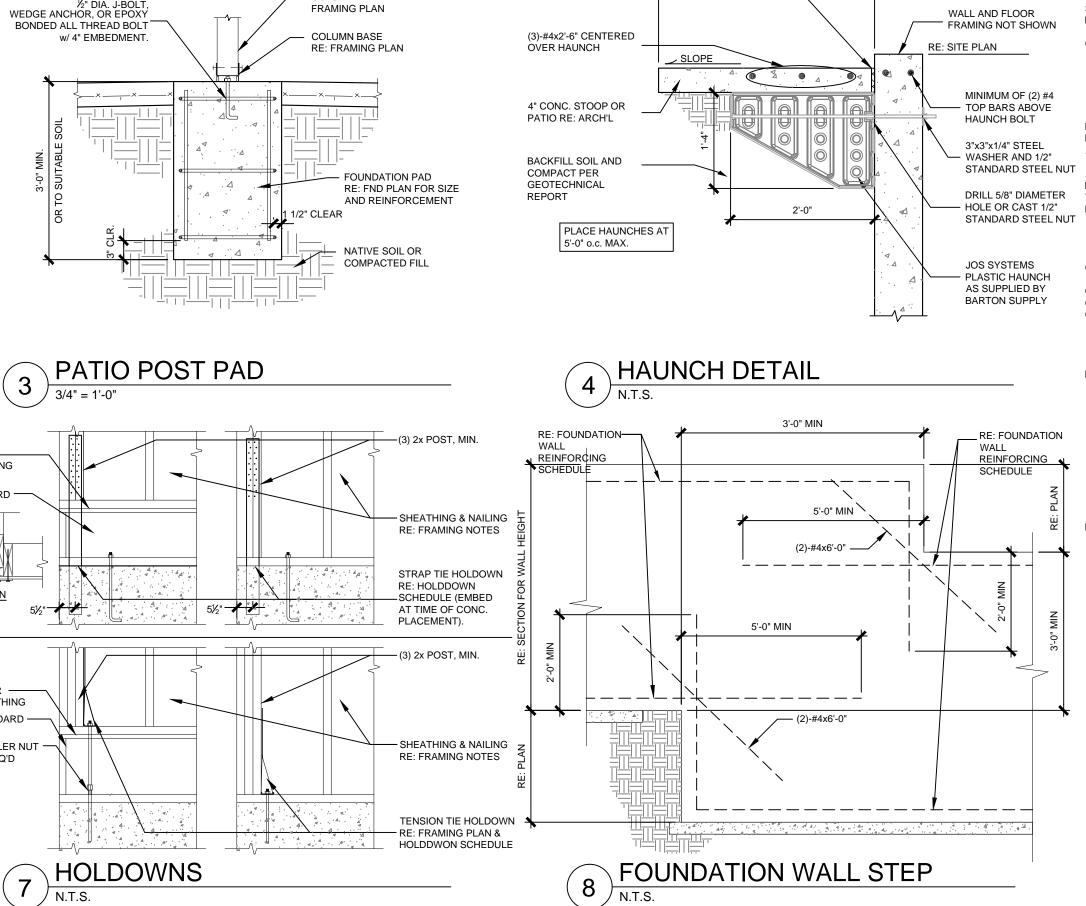
EDGE OF

OPENING -

BEAM POCKET SECTION

BAR, TURN 90° @

SCHEDULE



1" EXP. JOINT MATERIAL

· COLUMN RE:

VARIES RE: ARCH'L

FOUNDATION NOTES

SEE FOUNDATION WALL REINFORCING SCHEDULE FOR VERTICAL AND HORIZONTAL REINFORC REQUIREMENTS. STEEL REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS. #5 GRADE 40 STEEL BE SUBSTITUTED FOR #4 GRADE 60 STEEL. BEND OR LAP ALL BARS 48 BAR DIAMETERS WITH A MINIMUM C AROUND CORNERS. PROVIDE (2) #4S AROUND ALL OPENINGS WITH (2) #4 X 4' AT ALL CORNERS. ANCHOR BOI SHALL BE A MINIMUM 1/2" DIAMETER WITH MIN. 8" EMBEDMENT @ 4'-0" ON CENTER, MAXIMUM SPACING MINIMUM OF (2) BOLTS PER PLATE.

CONCRETE FOUNDATION SHALL BE: 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS WATER TO CEMENT RATIO SHALL BE 0.50 OR LESS.
CEMENT TYPE SHALL BE TYPE I OR TYPE II MODIFIED (ONLY TYPE II MODIFIED WHEN 4000 PSI SPECIFIED) SLUMP OF 4" PLUS/MINUS 1"

AIR CONTENT OF 6% PLUS/MINUS 1%

REFER TO ACI 318 FOR ADDITIONAL INFORMATION. DO NOT PLACE BACKFILL AGAINST FOUNDATION UNTIL CONCRETE HAS CURED AND FOUNDATION ADEQUATELY SHORED. BACKFILL TO REQUIRED GRADE ELEVATION AND SLOPE AWAY FROM BUILDING.

STANDARD STEEL NUT
ALL CONCRETE SLABS SHALL BE 4" THICK WITH 6X6-W1.4XW1.4 W.W.F. UNLESS OTHERWISE NOTED WITH A MINIMUM LAP OF 12". PROVIDE SCORES OR SAWCUTS IN ALL SLABS @ 12'-0" O.C. MAX. OR AS NOTED ON PL DRILL 5/8" DIAMETER WHERE POSSIBLE, ALIGN SAW CUT WITH COLUMN CENTERLINES AND RE-ENTRANT CORNERS. FOUNDATION FOOTINGS AND WALLS ARE DESIGNED BASED ON THE FOLLOWING:

SOILS REPORT NUMBER 170303
BY A.G. WASSENAAR, INC.
DATED June 5, 2017

MAXIMUM BEARING CAPACITY OF <u>2500</u> PSF AND A MIN. OF <u>800</u> PSF. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNANTICIPATED SOILS CONDITIONS.

CONCRETE PROTECTION FOR REINFORCEMENT (U.N.O.) CONCRETE POURED AGAINST EARTH CONCRETE POURED IN FORMS BUT EXPOSED TO EARTH AND WEATHER: #5 BARS OR SMALLER BARS LARGER THAN #5

DESIGN LOADS AS PER SECTION R301, I.R.C. WITH LOCAL AMENDMENTS: A. ROOF (SNOW) 30 PSF LIVE B. ROOF 25 PSF DEAD TOP CHORD = 15 PSF & BOTTOM CHORD = 10 PSF

C. FLOORS AND INTERIOR STAIRS 40 PSF LL, 15 PSF DL D. EXTERIOR DECKS 40 PSF LL, 10 PSF DL E. WIND 100 MPH EXPOSURE C (3 SEC. GUST) F. SEISMIC CATEGORY B G. WEATHERING: SEVERE H. FROST DEPTH: 30 INCHES

I. TERMITE INFESTATION: SLIGHT TO MODERATE J. DECAY: NONE TO SLIGHT

C. AISC STEEL CONSTRUCTION MANUAL D. ACI BUILDING CODE 318

FOUNDATION WALL HEIGHT NOTE:
IT IS ACCEPTABLE FOR THE CRAWLSPACE, GARAGE AND PATIO FOUNDATIONS TO BE EXTENDED
AT LEAST 1'-0" OR AT MOST TO BASEMENT DEPTH DUE TO POOR SOIL CONDITIONS OR EASE OF

THE GARAGE AND PATIO WALLS ARE ALLOWED TO EXTEND TO BASEMENT DEPTH WITH NO MODIFICATIONS OTHER THAN REINFORCEMENT OF THE TALLER WALLS PER THE SCHEDULE ON THE FOUNDATION PLANS. THE FOUNDATION WALL REINFORCEMENT SCHEDULE NOTES THAT WALLS WITH BACKFILL ON EACH SIDE THE REINFORCEMENT SHALL BE PER THE WALLS UP TO 4FT IN HEIGHT. THE FOOTINGS SHALL BE CONTINUOUS WITH A WIDTH OF 1'-4".

SQUARE FOOTING STEEL AND THICKNESS SCHEDULE IF NOT OTHERWISE NOTED ON FOUNDATION PLANS					
FOOTING WIDTH/LENGTH	# OF #4 REBAR EACH WAY	THICKNESS OF FOOTING			
2'-0"	2	12"			
2'-6"	2	12"			
3'-0"	3	12"			
3'-6"	3	12"			
4'-0"	4	12"			
4'-6"	4	12"			
5'-0"	5	14"			
5'-6"	5	14"			
6'-0"	6	16"			

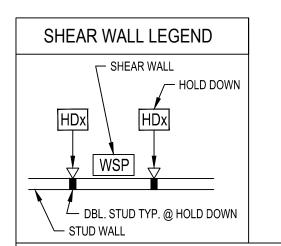
SPREAD FOOTING STEEL AND THICKNESS SCHEDULE						
FOOTING WIDTH	# OF #4 REBAR LONGITUDINAL	#4 REBAR LATERAL	THICKNESS OF FOOTING			
16"	NONE	NONE	8"			
18"	NONE	NONE	8"			
20"	NONE	NONE	8"			
24"	2	NONE	10"			
26"	3	@ 18"o.c.	10"			
28"	3	@ 18"o.c.	10"			
30"	4	@ 18"o.c.	12"			
32"	4	@ 12"o.c.	12"			
34"	4	@ 12"o.c.	12"			
36"	4	@ 12"o.c.	12"			

FOUNDATION WALL REINFORCING SCHEDULE				
WALL HEIGHT	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT		
UP TO 3'-0"	#4'S @ 48" O.C.	(2) #5'S TOP AND BOTTOM		
UP TO 4'-0"	#4'S @ 24" O.C.	(2) #5'S TOP AND BOTTOM		
UP TO 7'-0"	#4'S @ 24" O.C.	(2) #5'S TOP AND BOTTOM		

AND (1) #5 @ 16" O.C. WALLS WITH BACKFILL ON EACH SIDE, SUCH AS DEEP GARAGE WALLS, ONLY REQUIRE REINFORCEMENT AS PER THE SCHEDULE ABOVE FOR WALLS UP TO 4'-0" IN HEIGHT.

#4'S @ 18" O.C.

#5'S @ 16" O.C.



UP TO 9'-0"

UP TO 10'-0"



(2) #5'S TOP AND BOTTOM

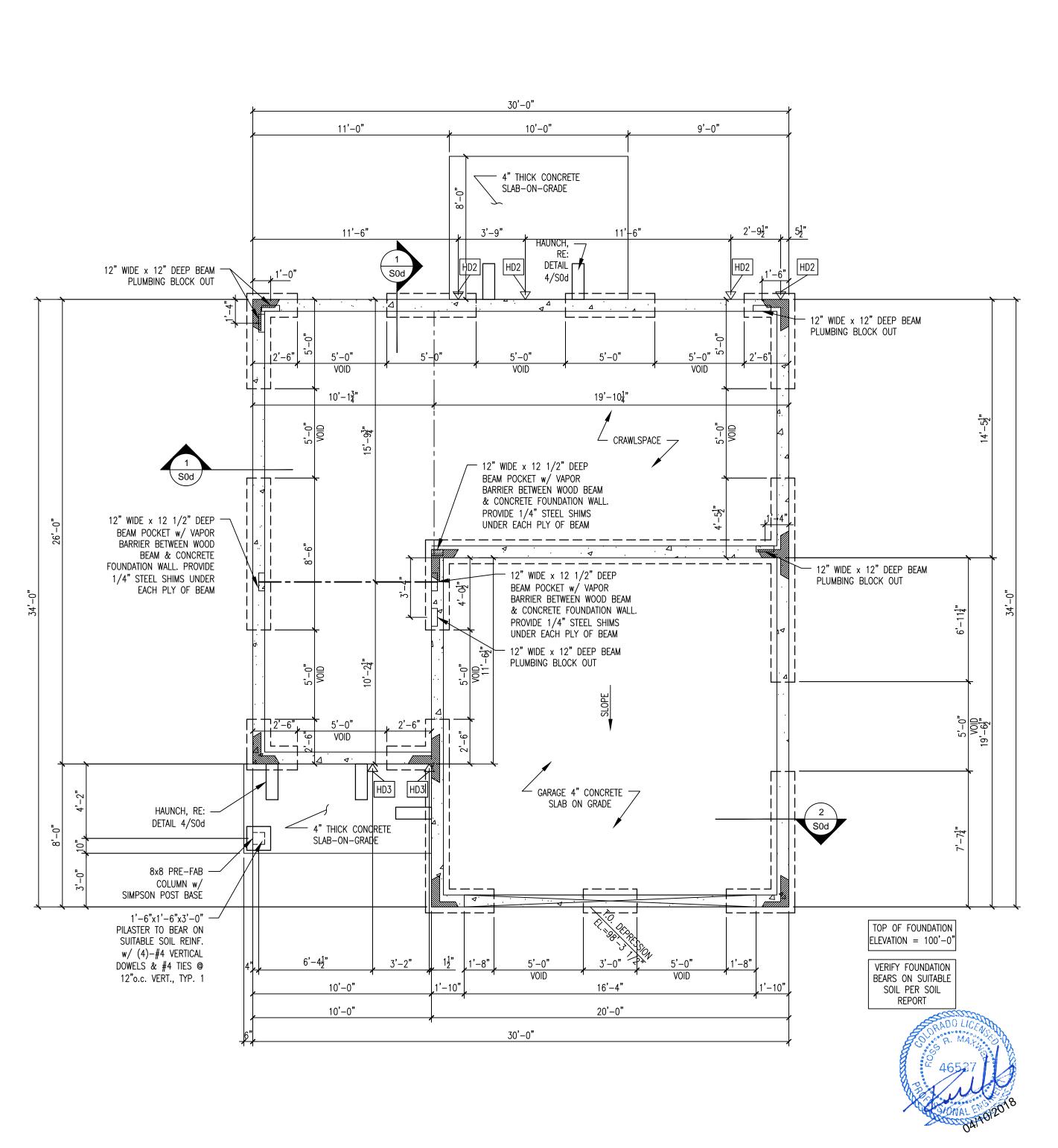
AND (1) #5 @ 24" O.C. (2) #5'S TOP AND BOTTOM

HOL	D-DOWN SCHEDULE	
"HDx"	HOLD DOWN	ANCHOR BOLT EMBED. DEPTH ¹
HD1	SIMPSON CS16 x 40" w/ 10d or USP RS150	N.A.
HD2	SIMPSON STHD10RJ or HDU4 or USP STAD10RJ USP PHD4A	7 1/2"
HD3	SIMPSON STHD14RJ or HDU8 or USP STAD14RJ USP PHD8	10 1/2"

1. EMBEDMENT LENGTHS ARE BASED ON HILTI HIT-RE 500 V3 ADHESIVE w/ HILTI HAS/HIT-V THREADED

ROD OR EQUIVALENT

RCING _ MAY	DATE REVISION	
OF 24" BOLTS NG W/		
A LANS. DNS,		
	<u>7</u> D	
	FIN:	
	BLK	
\neg		
E	3 Shadow Star Drive rado Springs, Colorado	
	3 Shadow Star Drive rado Springs, Colora	
	Star ngs,	
	dow	
E VG	Sha	
NG	00	
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	DESIGNED BY: EVstudio	
	DRAWN BY:	
	DATE DRAWN: 5/21/2015	
	DATE PRINTED: 4/10/2018	
	1/8"=1'@11x17 1/4"=1'@24x36	
	* UNLESS OTHERWISE NOTED PLAN NO.	
PTH ¹	101.11	
	SHEET NO.	



CRAWLSPACE FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

ELEVATION A

