DESIGN LOADS:

2015 INTERNATIONAL RESIDENTIAL CODE (IRC) 2017 PIKES PEAK REGIONAL BUILDING CODE (PPRBC) SITE ELEVATION OVER 7,000 FT

ROOF LOADS: 40 PSF LL / 15 PSF DL FLOOR LOADS: 40 PSF LL / 10 PSF DL

EXTERIOR WALLS: W/STUCCO - 15 PSF DL W/CUL STONE - 25 PSF DL

150 PCF DL 130 MPH (ULTIMATE), EXPOSURE "C" WIND LOADS: SOIL BEARING: 5,000 PSF (VERIFY W/ OPEN HOLE)

UNREINFORCED FOOTERS:

16" WIDE x 7.5" THICK UNREINFORCED CONCRETE FOOTER CENTERED UNDER AN 8" REINFORCED CONCRETE FOUNDATION PERIMETER WALL. (U.O.N.)

FOUNDATION WALLS:

8" CONCRETE WALL WITH ASPHALT EMULSION WATERPROOFING OR EQUIVALENT (TYP., U.N.O.)

WALL HEIGHTS AND STEPDOWNS PER ARCHTECTURAL DRAWING (MAX. 4 FT TALL)

REINFORCED PADS:

ALL 24" SQ PADS ARE 9.5" THICK, WITH NO

ALL PADS 30" TO 42" SQ ARE 11.5" THICK, REINFORCED WITH #4/60 REBAR @ 6" O.C.E.W.

EUFER ROD:

REINFORCEMENT REQUIRED

EUFER GROUNDING ROD MUST BE TIED TO THE FOUNDATION WALL STEEL PER THE PPRBD "EUFER ROD GROUNDING HANDOUT" (REFER TO THE PPRBD WEBSITE OR CONTACT OUR OFFICE FOR ANY DETAILS/QUESTIONS REGARDING PROPER INSTALLATION)

SILL PLATE:

MIN. 1/2" Ø X 10" ANCHOR BOLTS AT 4'-0" O.C. MAX., 12" MAX. AT SPLICES, AND MAX. 12" FROM ENDS THROUGH A MIN. 2 X 4 PRESSURE TREATED OR REDWOOD SILL PLATE (OR EQUIVALENT)

(3) 2X4 OR (4) 2X6 SILL PLATES (INCLUDING THE MUDSILL) ARE ALLOWED WITH THIS FOUNDATION DESIGN.

NOTE: 4-#4/60 MAY BE USED IN PLACE OF 2-#5/60

NORMAL WALL REINFORCEMENT DOES NOT COUNT TOWARD THESE REQUIREMENTS.

2-#5/60 BARS 3" FROM BLOCKOUT, EXTENDING 24" PAST BLOCKOUT, ALL SIDES OF BLOCKOUT

BLOCKOUT

MAX. 6'-0"

-FOOTER -- SIZE AS SHOWN ON FOUNDATION PLAN VERTICAL STEEL STUBBED UP FROM FOOTER A MINIMUM 12" AND TIED TO VERTICAL STEEL IN WALL TO PROVIDE

SEE VERTICAL REINFORCEMENT TABLE ABOVE

VERTICAL STUBS SHALL BE A MAX OF 4' O.C.

LATERAL RESISTANCE. STUB SPACING TO MATCH WALL

VERTICAL REINFORCEMENT SPACING BASED ON WALL HEIGHT

FOR WALLS WITH NO VERTICAL STEEL (< 4' HIGH WALLS)

FOUNDATION WALL - FRONT VIEW NOT TO SCALE

BLOCKOUTS HAVE AS ADDED REINFORCEMENT:

GRADE

GARAGE SLAB:

DROP TOP OF FOUNDATION WALL AT GARAGE DOOR OPENINGS AND RUN CONCRETE SLAB OVER THE TOP (TYP.) SEE ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS.

MIN. 4" CONCRETE SLAB ON GRADE. SLOPE TOWARD GARAGE DOOR OPENINGS. BUILDER TO VERIFY ALL DIMENSIONS PRIOR TO ANY CONSTRUCTION. SEE THE ARCHITECTURAL PLANS FOR ANY ADDITIONAL DIMENSIONS.

ALL LOOSE DIRT/ROCKS MUST BE REMOVED PRIOR TO POURING THE FOUNDATION FOOTERS, PAD/PIERS, AND PADS

PROVIDE COPY OF OPEN HOLE REPORT TO MIBAR. SOIL BEARING MUST BE 5,000 PSF OR HIGHER FOR THIS FOUNDATION DESIGN TO BE VALID. FOUNDATION DESIGN SIZING AND REINFORCEMENT MAY BE REVISED BASED ON RESULTS OF THE OPEN EXCAVATION OBSERVATION(S).

PADS, PIERS, AND FOOTERS MUST BE PLACED ON UNDISTURBED, NATIVE SOIL. ALLOW A 12" GAP IN THE FOOTER (IF REQUIRED) FOR THE PERIMETER DRAIN.

SPECIAL NOTE: UNLESS WE SPECIFICALLY CALL OUT A TOP OF WALL CONNECTION ON THE FOUNDATION PLAN SHEET, WE ALLOW THE USE OF WHAT WE CALL CRIPPLE

WALLS (CRIPPLE WALL = FRAMED WALL LESS THAN 4' HIGH) PROVIDED THAT TWO

THE WALL. THIS WILL PROVIDE STRUCTURAL STABILITY TO THE FOUNDATION WALL.

HORIZONTAL REINFORCEMENT FOR WALL HEIGHTS:

PLACE TWO BARS 3" TO 10" FROM THE TOP OF CONCRETE, TWO BARS 3" TO 10" FROM BOTTOM OF

EQUALLY SPACED IN BETWEEN TOP AND BOTTOM BARS. CRIPPLE WALLS ATOP FOUNDATION WALLS ARE PERMISSIBLE IF TWO ADDITIONAL REINFORCEMENT BARS ARE ADDED AT TOP COURSE OF REINFORCEMENT.

UXUXUXUXUX

CONCRETE AND THE REMAINDER APPROXIMATELY

-ADDED #4 BAR 36" LONG AT CORNERS

18" MAX

FOR FOOTER STEPDOWN

4' OR LESS -- FOUR #4/60 4'-1" TO 6' -- FIVE #4/60

WE ARE NOT DEPENDING UPON THE FLOOR FRAMING TO PROVIDE LATERAL SUPPORT

ADDITIONAL #4/60 REBARS ARE ADDED TO THE TOP COURSE OF REINFORCEMENT IN

DUE TO ENCOUNTERING CLAY MATERIAL BETWEEN THE DEPTHS OF 2 AND 5 FEET, THE EXCAVATION AND PLACEMENT OF THE FOUNDATION COMPONENTS MUST PENETRATE THIS UNSUITABLE MATERIAL. IF THE LOW PLASTICITY CLAY IS PRESENT AT THE TIME OF THE EXCAVATION IT MUST BE REOMVED AND REPLACED. SEE SOILS REPORT FOR ADDITIONAL INFORMATION.

LEDGE HEIGHT "H" T.B.D.

BY BUILDER/OWNER

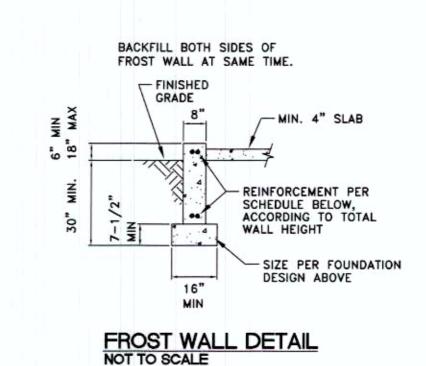
OPTIONAL TOP OF WALL DETAIL

ANCHOR BOLT TO EXTEND TO TOP REBAR

CONCRETE SLAB

FOR CONCRETE SLAB LEDGE

-



12'-0"

GREENHOUSE

15'-3"

18"ø

18"ø

PIER

12'-0"

5'-5 1/2" 5'-5 1/4"

11'-4"

15'-3 3/4"

24"SQ

PAD

GARAGE

GRADE -

SLAB ON

PAD

48'-0"

24'-0"

16" WIDE x 7.5" THICK UNREINFORCED CONCRETE

8'-7 3/4"

PAD

FOOTER CENTERED UNDER AN 8° REINFORCED CONCRETE FOUNDATION PERIMETER WALL, (U.O.N.)

LIVING SPACE

SLAB ON GRADE

13'-1 1/4"

12'-0"

42"SQ **

18'-0"

36"SQ

36"SQ

17'-4 1/2"

48'-0"

FOUNDATION DESIGN - PLAN VIEW

FROM BACK TO FRONT

36"SQ PAD

12'-0"

9'-3 1/4"

36"SQ

PAD

14'-0 1/4"

15'-3 3/4"

** NOTE: STEM WALL BETWEEN GARAGE AND HOUSE CAN BE OMITTED

DESIRED BY THE BUILDER. IT ALLOWS FOR SLOPE OF GARAGE SLAB

CONNECT TO PIER WITH SIMPSON COLUMN

ANCHOR TO PIER WITH MIN. (1) 5/8" BOLT

- PIER SIZES PER

FOUNDATION PLAN

(MINIMUM OF 4" INTO THE CONCRETE

BASE PLATE OR EQUIVALENT.

4'-9"

36"SQ

FOOTER -- SIZE AS SHOWN ON LAYOUT VERTICAL STEEL STUBBED UP FROM FOOTER A MINIMUM 12" W/ #4/60 AT MAX. 4' O.C. TO PROVIDE LATERAL "RÉSISTANCE MIN. 24" BEND OVERLAP AROUND CORNERS MIN. 18" OVERLAP FOR SPLICES MIN. 3" COVER (TYP.) 3" (TYP.)

> FOUNDATION WALL - TOP VIEW NOT TO SCALE

> > SOILS REPORT AND FOUNDATION DESIGN BY LICENSED COLORADO ENGINEER OR **ARCHITECT SHALL BE ON HAND** AT TIME OF FIRST INSPECTION.

SPECIFICATIONS:

SOILS REPORT: THE SOILS REPORT FORMS PART OF THIS FOUNDATION PLAN; READ IT CAREFULLY. ASK THE ENGINEER ABOUT ANY PART YOU DO NOT UNDERSTAND. CALL THE ATTENTION OF THE ENGINEER TO ANY CHANGES IN SOIL CONDITIONS FROM THAT WHICH ARE DISCUSSED IN THE SOILS REPORT. GENERALLY, AN EXAMINATION OF THE FOUNDATION EXCAVATION BY THE ENGINEER IS REQUIRED PRIOR TO BEGINNING CONSTRUCTION.

SITE DEVELOPMENT: ROUGH GRADE TO LEAVE GOOD DRAINAGE DURING AND AFTER CONSTRUCTION. FINAL GRADE AFTER CONSTRUCTION SHALL BE SIX INCHES OF DROP AWAY FROM BUILDING IN THE FIRST TEN FEET. REMOVE TOPSOIL AND ORGANIC MATERIAL FROM WHERE COMPONENTS OF YOUR FOUNDATION AND SLABS WILL GO. IF YOU DISCOVER GROUND WATER, NOTIFY THE ENGINEER. DO NOT BUILD ON FROZEN SOIL OR MUD.

SOILS: SOILS ARE A CONSTRUCTION MATERIAL; HOWEVER, WITHOUT PROPER USE, THEY CAN BEHAVE IN UNPREDICTABLE FASHIONS. HERE'S WHAT WE CONSIDER PROPER USE:

- FILL AND COMPACT SOFT SPOTS TO THE DENSITY REQUIRED FOR THAT AREA OF THE FOUNDATION. - SOIL UNDER LOAD BEARING COMPONENTS OF THE STRUCTURE, SUCH AS WALLS AND PADS, SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. BACKFILL AGAINST FOUNDATION WALLS SHALL BE COMPACTED TO 80% MODIFIED PROCTOR DENSITY.

BACKFILL SHOULD BE MADE IN 6" LAYERS, CALLED LIFTS, WITH EACH LIFT PROPERLY COMPACTED TO THE REQUIRED DENSITY, USING THE PROPER COMPACTING EQUIPMENT. FOUNDATION WALLS DESIGNED TO HAVE BACKFILL ON BOTH SIDES SHALL HAVE FILL BROUGHT UP EQUALLY ON BOTH SIDES, RATHER THAN BACKFILLING ONE SIDE PRIOR TO BACKFILLING THE OTHER. GENERALLY, USE OF A "JUMPING JACK" FOR COHESIVE SOILS (i.e., CLAYEY OR SILTY) OR A VIBRATORY PLATE COMPACTOR FOR GRANULAR SOILS (i.e., SANDY) WILL PROVIDE GOOD RESULTS. THE SOIL SHOULD BE AT THE RIGHT MOISTURE CONTENT; IF IT SEEMS WET OR DRY, NOTIFY THE SOILS ENGINEER FOR ADVICE. CAUTION: USING BOOM MOUNTED COMPACTING EQUIPMENT, SUCH AS A SHAKER HEAD OR "STINGER", OR POUNDING THE SOIL WITH A BACKHOE BUCKET EXERTS A TREMENDOUS FORCE: IF USED TO COMPACT BACKFILL AROUND FOUNDATIONS, WALL FAILURE IS LIKELY. LIKEWISE, AUTOS, TRUCKS, FRONT END LOADERS, ETC., ARE NOT COMPACTING EQUIPMENT, AND IF THEY ARE DRIVEN CLOSE (WITHIN TEN FEET) TO A

FOUNDATION WALL, IT IS LIKELY THE WALL WILL BOW AND CRACK. - COMPACTION SHALL BE ACCOMPLISHED SO AS TO FORM A BERM OF DENSE SOIL AGAINST THE SIDE OF THE STRUCTURE TO PROVIDE ADEQUATE LATERAL SUPPORT. EACH LIFT IN THE PROCESS SHALL BE FINISHED ALONG THE ENTIRE LENGTH OF THE WALL BEFORE STARTING ON THE NEXT LIFT. DO NOT COMPACT TOO TIGHTLY OR IN SUCH A FASHION THAT WEDGING OCCURS AGAINST THE FOUNDATION WALL OR BOWING AND CRACKING OF THE WALL CAN OCCUR. GENERALLY, FLOOR JOISTS AND SLABS MUST BE IN PLACE PRIOR TO BACKFILLING AGAINST THE FOUNDATION; THE FOUNDATION DESIGN WILL LIST SPECIFIC EXCEPTIONS. BLOCK BETWEEN THE FOUNDATION WALL AND PARALLEL FLOOR JOISTS AT FOUR FOOT CENTERS ALONG FULL HEIGHT FOUNDATION WALLS - DO NOT ALLOW THE BACKFILL TO BECOME SATURATED WITH WATER AT ANY TIME, DURING OR AFTER CONSTRUCTION. THIS PLACES EXCESSIVE PRESSURE AGAINST THE WALL AND CAN CAUSE CRACKING OR BOWING. - SILL PLATES SHALL BE ANCHORED WITH 1/2" DIAMETER ANCHOR BOLTS AT A MAXIMUM SPACING OF 48 INCHES AND WITHIN 12 INCHES OF PLATE ENDS, UNLESS OTHERWISE NOTED.

CONCRETE: CONCRETE SHALL BE A MINIMUM OF 3,000 PSI WITH A MAXIMUM SLUMP OF 4 INCHES FOR WALLS. PADS AND SHALLOW PIERS AND A MINIMUM OF 3,500 PSI WITH A MAXIMUM 4 INCH SLUMP FOR DEEP DRILLED PIERS UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS. SLUMP MAY BE INCREASED TO 6 INCHES WITH POZZOLAN ADDITIVES IF NO ADDITIONAL WATER IS USED IN THE MIX. BEWARE OF CONCRETE TRUCK OPERATORS WHO WISH TO ADD WATER TO THE CONCRETE AT THE SITE TO MAKE IT MORE WORKABLE. ADDITIONAL WATER WILL DECREASE THE STRENGTH OF THE CONCRETE. THE CONCRETE MUST STAY IN THE FORMS FOR A MINIMUM OF 72 HOURS TO CURE OR BE COVERED WITH CURING SHEETS OR SPRAYED WITH A CURING COMPOUND. THE WATER IN THE CONCRETE IS REQUIRED TO COMPLETE THE CHEMICAL REACTION, AND IF THE CONCRETE IS UNCOVERED TOO SOON AFTER PLACEMENT, IT WILL DRY OUT TO THE DETRIMENT OF THE CONCRETE'S STRENGTH AND APPEARANCE. FOUNDATIONS WHICH HAVE FORMS STRIPPED EARLY END UP WITH AS LITTLE AS HALF THE STRENGTH OF FOUNDATION WALLS WHICH ARE PROPERLY CURED. SIMILARLY, DO NOT ALLOW THE CONCRETE TO FREEZE DURING THE FIRST SEVEN DAYS. THE WATER WITHIN THE CONCRETE FREEZES AND BECOMES UNAVAILABLE FOR THE CHEMICAL REACTION, POSSIBLY CAUSING A DETRIMENT TO THE CONCRETE'S STRENGTH AND APPEARANCE. EXCEPT IN VERY MASSIVE STRUCTURES, THE HEAT OF HYDRATION OF CONCRETE IS GENERALLY NOT SUFFICIENT TO PREVENT FREEZING DURING A TYPICAL COLORADO WINTER NIGHT.

DO NOT LET THE CONCRETE DROP FARTHER THAN TEN FEET WHEN PLACING IT. AVOID DROPPING CONCRETE ON REINFORCING STEEL AS MUCH AS POSSIBLE, AS THIS WILL TEND TO DISPLACE THE STEEL. AFTER PLACEMENT, ROD OR VIBRATE THE CONCRETE TO ELIMINATE JOINTS AND AIR POCKETS, BUT DO NOT CAUSE THE INGREDIENTS TO SEPARATE OR WATER TO POOL AT THE TOP. EXCESSIVE VIBRATION CAN CAUSE DAMAGE TO THE FORMS. DO NOT PLACE STRESS AGAINST CONCRETE FOR AT LEAST SEVEN DAYS AFTER PLACEMENT. USE FORMS WHICH ARE PROPERLY OILED AND BRACED. LEAVE THEM IN PLACE UNTIL THE CONCRETE HAS CURED TO THE POINT WHERE IT CAN SUPPORT ITS OWN WEIGHT. REMOVE FORMS CAREFULLY SO AS NOT TO DAMAGE THE CONCRETE; PATCH ANY VOIDS WITH A GROUT USING THE SAME MIXTURE AS THE ORIGINAL CONCRETE, BUT WITHOUT THE COARSE AGGREGATE PUT CONTROL JOINTS IN SLABS AT NO MORE THAN 12 FEET EACH DIRECTION. USE OF POLY FIBER MESH IN SLABS LESS THAN 6" THICK AND WELDED WIRE FABRIC IN SLABS 6" THICK OR GREATER IS RECOMMENDED TO REDUCE SHRINKAGE CRACKING. IF DEEP DRILLED PIERS (CAISSONS) ARE USED IN THE FOUNDATION, A MAXIMUM OF FOUR HOURS BETWEEN THE DRILLING OF THE HOLE AND THE PLACEMENT OF THE CONCRETE IS ALLOWED, WITH LESS THAN ONE HOUR BEING DESIRED. IF GROUNDWATER IS ENCOUNTERED, IMMEDIATE FILLING IS REQUIRED. UP TO ONE INCH OF WATER IS AUTHORIZED IN CAISSON HOLES PRIOR TO CONCRETE PLACEMENT; DEEPER WATER MUST BE PUMPED OR

STEEL: REINFORCING STEEL IS GRADE 60, UNLESS OTHERWISE CALLED OUT ON THE PLANS. STEEL SHALL BE FREE OF RUST, DIRT, OIL, SCALE, OR ANYTHING ELSE WHICH WILL IMPAIR ITS ABILITY TO ADHERE TO CONCRETE. ALL REINFORCING STEEL SHALL BE SECURELY TIED AT ALL INTERSECTIONS AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACING OPERATIONS. STEEL MUST NOT BE ANY CLOSER THAN THREE INCHES TO SURFACES WHICH WILL BE EXPOSED TO EARTH AND 2 INCHES FROM OTHER SURFACES. SEE THE REINFORCEMENT DETAILS FOR ADDITIONAL PLACEMENT REQUIREMENTS. OVERLAP AND TIE SPLICES 18 INCHES. BEND AND TIE CORNER 24 INCHES. PLACEMENT OF REINFORCING STEEL ACCORDING TO THE DESIGN IS IMPORTANT IN ORDER TO ALLOW THE STEEL AND CONCRETE TO WORK TOGETHER TO DEVELOP MAXIMUM STRENGTH.

LIABILITY: ALL DESIGN AND CONSTRUCTION REPRESENTS COMPROMISE. THIS FOUNDATION DESIGN HAS BEEN ACCOMPLISHED WITH ECONOMY, CONSTRUCTIBILITY, AND RELIABILITY AS PRIMARY CONSIDERATIONS AND REFLECTS THE CURRENT STANDARDS OF PRACTICE IN THE FRONT RANGE AREA. IT HAS NOT BEEN DESIGNED TO WITHSTAND EVERY CONCEIVABLE EVENT WHICH MIGHT OCCUR. AS THAT WOULD RENDER THE FOUNDATION EXCEPTIONALLY DIFFICULT TO BUILD AND EXCEEDINGLY EXPENSIVE. LIKEWISE, THE DETAILS ARE NOT INTENDED TO PROVIDE STEP-BY-STEP INSTALLATION INSTRUCTIONS; THE IRC/IBC BUILDING CODE PROVIDES OTHER INFORMATION NEEDED FOR FOUNDATION CONSTRUCTION. A WORKING KNOWLEDGE OF THE CODE AS WELL AS PRACTICAL EXPERIENCE IN LOCAL FOUNDATION CONSTRUCTION PRACTICES (IN THE SPECIFIC TYPE OF FOUNDATION BEING BUILT) IS REQUIRED TO COMPLETE THE FOUNDATION. IF YOU OR ANY MEMBER OF THE CONSTRUCTION TEAM HAS ANY QUESTION ABOUT ANY PORTION OF THIS FOUNDATION DESIGN, YOU MUST CONTACT THIS OFFICE TO RESOLVE THE SITUATION PRIOR TO PROCEEDING WITH CONSTRUCTION. WHILE THE DESIGN OF THIS FOUNDATION SHOULD PROVIDE A STRUCTURE WHICH WILL FUNCTION WELL FOR THE LIFE OF THE BUILDING UNDER NORMAL CIRCUMSTANCES, UNFORESEEN EVENTS, SUCH AS FLOODING, EXCEPTIONAL LOADS, OR EVEN IMPROPER CONSTRUCTION NOT NOTICED DURING BUILDING CAN CAUSE PROBLEMS. THEREFORE, THE LIMITS OF LIABILITY EXTEND TO THE FEE RENDERED FOR THE PROFESSIONAL SERVICES PROVIDED.

SPECIAL NOTE: USING CALCIUM CHLORIDE AS AN ACCELERATING ADMIXTURE IS NOT PERMITTED IN THIS DESIGN.

SPECIAL NOTE: IF AN INDIVIDUAL PERFORMS INSPECTIONS, OTHER THAN MIBAR ENGINEERING OR LOCAL BUILDING OFFICIAL, THAT INDIVIDUAL WILL ASSUME ALL LIABILITY FOR THIS FOUNDATION DESIGN.

NOTE: PADS AND FOOTERS MUST BE PLACED ON UNDISTURBED NATIVE SOIL. AN OPEN HOLE OBSERVATION(S) IS/ARE REQUIRED TO VERIFY SOIL CONDITIONS AND BEARING CAPACITY FOR ALL FOUNDATION COMPONENTS BEFORE ANY CONCRETE IS POURED

PROVIDE COPY OF OPEN HOLE REPORT(S) TO MIBAR ENGINEERING. SOIL BEARING MUST BE 5,000 PSF OR HIGHER FOR THIS FOUNDATION DESIGN TO BE VALID. FOUNDATION DESIGN SIZING AND REINFORCEMENT MAY BE REVISED BASED ON RESULTS OF THE OPEN EXCAVATION OBSERVATION REPORT(S).

GENERAL NOTES.

1. THE SPECIFICATIONS, SOILS REPORT, AND OPEN HOLE LETTER ARE PART OF THIS DESIGN.

o. Revision/Issue/Change

- 2. VERIFY LOCATIONS OF PADS AND PIERS.
- 3. LOAD BEARING COMPONENTS SUSCEPTIBLE TO THE
- WEATHER SHALL BE FINISHED TO A MINIMUM OF 30" BELOW AND 6" ABOVE FINISHED GRADE.
- 4. FOOTER, PAD, AND PIER SIZES SHOWN ON THIS DESIGN ARE MINIMUM AND MAY BE UP SIZED.
- 5. PADS 36" SQ THRU 60" SQ ARE 11.5" THICK,
- W/ #4/60 AT 10" O.C. EACH WAY. SEE DETAILS FOR ADDITIONAL INFORMATION.
- 6. WALL THICKNESSES SHOWN ARE NOMINAL WALL HEIGHTS VARY, REFER TO ARCHITECTURAL DRAWINGS AND DETAIL SHEETS.
- IF WALL HEIGHTS EXCEED 4 FEET, OR IF ANY UNFORESEEN CONDITIONS ARISE,
- CONTACT THE ENGINEER.



OFFICE: (719) 487-0812

Project: 20377 Project Name and Address: Sheet: 1 of ECHO CONSTRUCTION Date:9/28/2020 HAMILTON RESIDENCE Scale: 1/8"=1" 12910 BLACK LANE, Drawn by: MST EL PASO COUNTY, COLORADO Checked by:NBW

Released for Permit 01/12/2021 1:18:41 PM

FOUNDATION DESIGN:

GEOQUEST, LLC JOB #15-0501

SOIL BEARING: 5,000 PSF

8. REFER TO DETAIL SHEETS FOR REINFORCEMENT

9. BLOCK-OUTS FOR BEAM POCKETS, WINDOWS AND

10. PLACE THE CONCRETE SLAB OR OTHER SUITABLE

11. PLACE AND COMPACT BACKFILL IN LIFTS ALONG

ENTIRE LENGTH OF WALL. SEE SPECIFICATIONS

SPECIAL SOILS EXIST - SEE SOILS REPORT PROVIDE COPY OF OPEN HOLE REPORT TO MIBAR

SOIL BEARING MUST BE 5,000 PSF OR HIGHER FOR

DOORWAYS ARE REQUIRED. SEE ARCHITECTURAL

LATERAL RESTRAINT, IN ADDITION TO FLOOR JOISTS

SCHEDULE AND ADDITIONAL INFORMATION.

DRAWINGS FOR LOCATIONS AND SIZES.

AND SUBFLOOR, PRIOR TO BACKFILLING.

THIS FOUNDATION DESIGN TO BE VALID.

VERTICAL REINFORCEMENT (#4/60)

4'-1" TO 6' -- 48" ON CENTER

GARAGE INTERIOR WALLS UP TO 6 FT

SHALL HAVE VERT REINFORCEMENT AT 24"

OR LESS -- NONE REQ'D

WALL HEIGHTS AND STEPDOWNS

PER ARCHITECT DRAWINGS.

FOR WALL HEIGHTS:

CONSTRUCTION

FOUNDATION REINFORCEMENT DETAILS FOR CONCRETE WALLS UP TO 6 FT HIGH (EL PASO COUNTY, NOT TO SCALE)