	GENERAL CONSTRUCTION NOTES:	V.	BUILDING ENVELOPE:
	All angles are 45 degrees unless otherwise specified	1.	All wall and ceiling insulation to comply with the 2012 VRC or IECC
2.	2x4 and 2x6 walls are dimensioned 3 ½" and 5 ½" respectively	2.	Foundation walls and unfinished areas and crawl spaces to receive R-11
). .	Provide attic access 22 ½" x 30 ½" x 30" minimum head clearance Dimensions are subject to field verification and adjustment provided the		VSK insulation from floor to top of wall; R-13 FG batt insulation at finished Basement area perimeter framing
·	adjustment does not violate code, engineering or industry standards	3.	Foam sill sealer shall be provided between sill plates and top of concrete
·.	All glazed areas subject to human impact loads at hazardous locations	4	foundation walls
	must be safety glazed; provided safety glazing at all sidelights, sliding	4.	Perimeter insulation for on grade conditioned slab shall be ridged R-10 to minimum 24" in horizontal depth
).	glass doors, shower enclosures and skylights Provided safety glass when at windows with window sill heights less	4.	All sheathing penetrations during construction shall be patched and
	than 18" AFF	_	repaired according to manufacturer's specifications or local governing code
' .	The excavation outside the foundation shall be backfilled with soil that is free of organic material, construction debris and large rocks; backfill	5. 7.	All exterior framed walls to be wrapped in "Tyvek" brand House Wrap All exterior wall covering shall be in accordance with 2012 VRC section 703
	shall be placed in a manner that does not damage the foundation or	8.	Asphalt shingles to conform to ASTM D225 or D3462
	applied dampproofing/waterproofing	9.	Asphalt shingles shall not be installed on roof slopes below 3:12 or per
.	The ground immediately adjacent to the foundation shall be slopped away from the structure; slope of not less that 1:12 for a minimum	10.	manufacturer's requirements Shingle headlap shall not be less that 2"
	distance of 8'	11.	Flashing shall be installed at wall and roof intersections, all changes in
).	Pre-fab gas fireplaces shall be installed according to manufacturer's	10	roof slope and/or direction and around all roof openings
	specifications with exterior combustion air intakes and be U.L. listed to U.L #127 standards	13. 14.	Weaterhshield (or equal) shall be installed at first row and valleys 30 lb. felt throughout
	U.L #127 Standards	17,	30 to. feit unoughout
I.	FIRE PROTECTION:	VI.	FRAMING NOTES:
	1/2" type "X" fire code drywall on all common walls and ceilings of	1.	All lumber must be grade stamped in accordance with the 2012 VRC
	attached Garages; (1) hour rated dwelling/Garage wall provided by (1)	2.	All fasteners shall conform to manufacturer's instructions or 2012 VRC
).	layer ½" drywall on living side and 1/2" type "X" drywall on Garage side 20 minute fire-rated doors between Garage and living space	3.	fastening schedule(s) or NER 272 Posts or studs in load bearing walls will be designed as columns
5.	Provide portable fire extinguisher per VRC code R329.1; installed in easily	4.	Minimal grade and allowable stresses for structural wood members are:
	accessible area in the Kitchen	a.	Studs/Jacks/Joists/Rafters/Headers - #2 Hem-fir or better; Fb=850,
		b.	Ft=500, Hv=75, Fc(perp)=405, Fc(par)=1250, D=1,300,00 LVL Beams - G=125,000 psi, E=2.0x10(6) psi, Fb=2925 psi,
II.	OCCUPANT REQUIREMENTS		Fc(perp)=750 psi, Fc(par)=3035 psi, Fv=285 psi
	Windows in hadrons (many of arms) shall have a minimum share	5.	Apply size factors, repetitive member factors, duration of load adjustment, horizontal shear adjustment, and adjustments for dimension
•	Windows in bedrooms (means of egress) shall have a minimum clear opening of 5.7 s.f. and a minimum net clear opening 24" wide x 22' high		lumber to base values as required (Western Wood Products Association
2.	Maximum clear sill height at egress windows 44" above finished floor		Use Manuel)
	Handrails shall be located at a height of 34" from nose of tread to the	6.	All wood framing members which rest on exterior foundation walls shall be 8" above finished grade and shall be pressure treated
	top of the rail when rails are attached to the wall; handrails which are part of guardrails to 36" above nosing of treads, maximum projection of	7.	All partitions shall be 2x4 construction unless otherwise noted; bearing
	3 ½ into the stair tread or landing		and non-bearing walls shall be framed at 16" O.C.
١.	Handrails and/or railings shall be installed at any stair or exterior Porch	8. 9.	All exterior walls shall be sheathed with 7/16" OSB All wood structural members and sheathing to be fastened per 2012 VRC
	of (3) risers or more, at all landings and floors (3) risers or more; install guardrails with a minimum height of 36" above finished floor. Balusters	<i>)</i> ,	table R602.3(1) thru R602.3(3)
	shall be installed in such a manner that a 4" diameter sphere cannot pass	10.	All exterior walls and interior bearing walls, window and door headers shall
,	between any two balusters		(2) 2x10 construction with (2) jack studs unless otherwise noted or span exceeds 5' 8"; refer to the 2012 VRC Section R502.5 for header criteria
	The maximum riser height at stairs and landings shall be 8 ¼" and the minimum tread depth shall be 10" (to include a 1" nosing) on stairways		applicable to conditions not stated
	with solid surfaces	11.	All roof sheathing shall be LP "TechShield" reflective coated 7/16" OSB
			fastened in accordance with manufacturer's specifications, clipped at midsparat 24" truss spacing
V.	FOUNDATION NOTES:	12.	Roof and floor system engineering, layout, blocking and bracing as
			designed by roof and floor truss manufacturers
•	All soils testing shall be in accordance with the VRC or local code being used	13.	All identified flush headers and beams to engineered and provided for by the floor and/or roof truss manufacturer
2.	Building foundations have been designed based on as assumed soil bearing capacity of 2000 psf. Additional engineering is required if soil bearing		the moor and/or roof truss manufacturer
	capacity falls below 2000 psf	VII	BUILDING SERVICES MECHANICAL/ELECTRICAL:
\. .	All plain and reinforced concrete shall comply with requirements in ACI 318 Concrete used for footings, Basement slabs and interior slabs on grade shall	V 11	BUILDING SERVICES MECHANICAL/ELECTRICAL.
•	be 2,500 psi (min); poured foundation walls shall be	1.	All exhaust fans shall vent to exterior
,	3,000 psi (min) air entrained concrete, type 1A ASTM C150	2.	Kitchen range exhaust 100 cfm minimum; Bathroom and Powder Room exhaust 50 cfm minimum
·.	All exterior concrete work and Garage slabs shall be nominal 4", 3,500 psi (min) air entrained concrete, type 1A ASTM C150	3.	Provide intermittent whole house ventilation system per VRC Section 1507
).	All footings to be 24" minimum below grade to bottom of footing		to meet ASHRAE 62.2-2010 standards for ventilation
' .	In reinforced concrete footings the thickness above the bottom	4.	Smoke detectors shall be located in each story of the dwelling unit, including basements, and in immediate vicinity of the Bedrooms, as well as in each
	reinforcement shall not be less that 6"; the clear cover on reinforcement where the concrete is cast against the earth shall not be less than 3"		Bedroom. Each smoke detector shall operate on an electric power (primary)
.	Footings must not be poured through water and be protected from freezing		with battery back-up. Detectors shall be wired in such a manner that the
	for a period of not less that (5) days	5	actuation of one alarm will actuate all of the alarms within the dwelling unit
).	Any plumbing pipe passing under a footing or through a foundation wall shall be provided with a relieving arch or sleeve two pipe sizes greater than	5.	An approved carbon monoxide detector shall be installed at each story of the dwelling unit, in proximity of each sleeping area where applicable, in dwelling
	the pipe passing through		units with fuel-fired appliances and dwelling units with attached Garages
0.	The minimum thickness of a foundation wall shall not be less than the wall	6.	All Mechanical and Electrical work to be to their respective codes and
	supported; all walls will be minimum 8" thick and may vary from plan as wall heights and grade requires		provided by a Contractor(s) licensed to do work in the jurisdiction of the project
1.	All foundation walls shall be dampproofed or waterproofed (to grade) with		rn
	code approved dampproofing or waterproofing system (pending conditions)		
2.	All holes and recesses resulting from removal of form ties shall be sealed with a bituminous material prior to applying dampproofing or waterproofing		
3.	All concrete slabs shall have expansion joints for crack control		
4.	Foundation drains (draintile) shall be installed according to local site		

conditions and governing code
Foundation anchor bolts shall be ½" diameter bolts installed at 6' 0" O.C.
(max), or "Simpson" MAB15 galvanized anchor straps at 3' 10" O.C.; either anchor shall be located a maximum of 12" from each corner and splice

RESIDENCE FOR:

CODE

LOADS

CODE USED: 2012 VRC USE GROUP: R-5

TYPE:

	LIVE	DEAD
LIVING:	40	10
SLEEPING:	30	10
ROOF:	30	17
WIND:	90	

5B

SQ FTG(S)

FIRST FLOOR: 2012

UNFIN. BASEMENT (SLAB): 1872
GARAGE (SLAB): 581
FRONT PORCH: 168

PLAN PAGES:

C1 - COVER SHEET

A1 - ELEVATIONS/ROOF PLAN

A2 - FOUNDATION PLAN

A3 - 1ST FLOOR PLAN/TYP. SECT

S1 - SECTION/DETAILSS2 - SECTION/DETAILS

S3 - ELEC & BWL DIAGRAMS

PLANS BY: D. LOY

PYRAMID DESIGN & DRAFTING
540.547.3040

DATE:

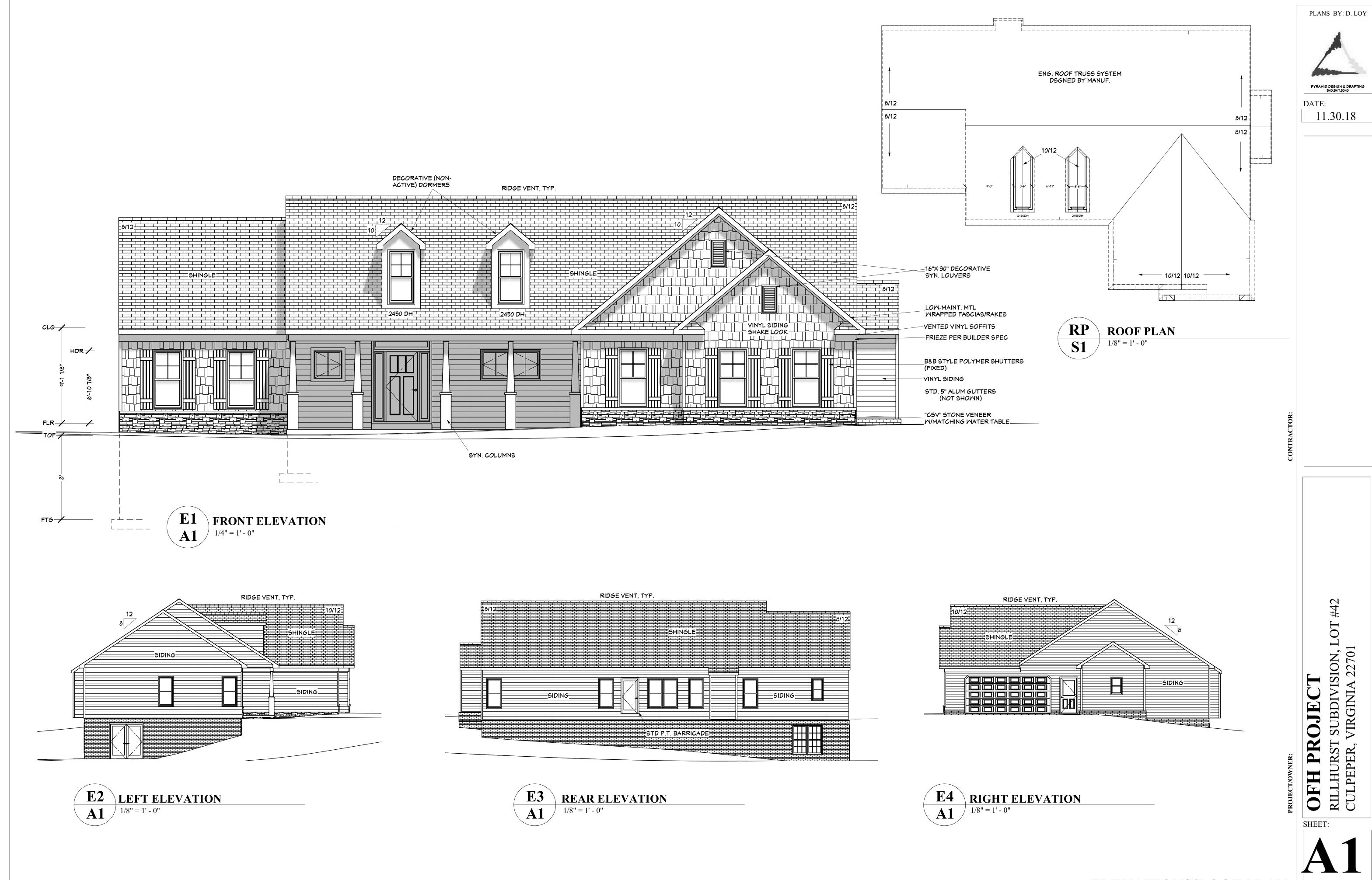
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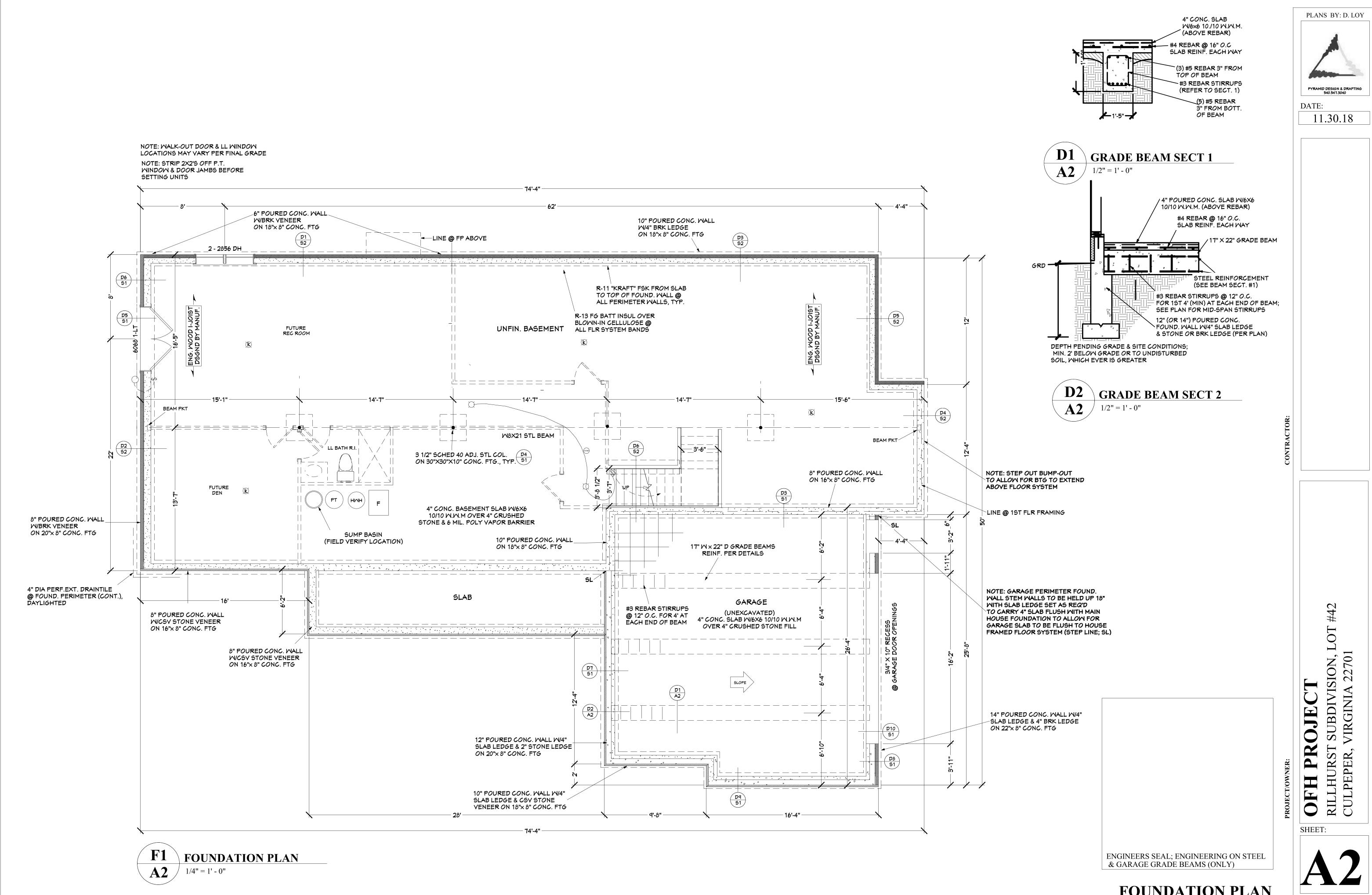
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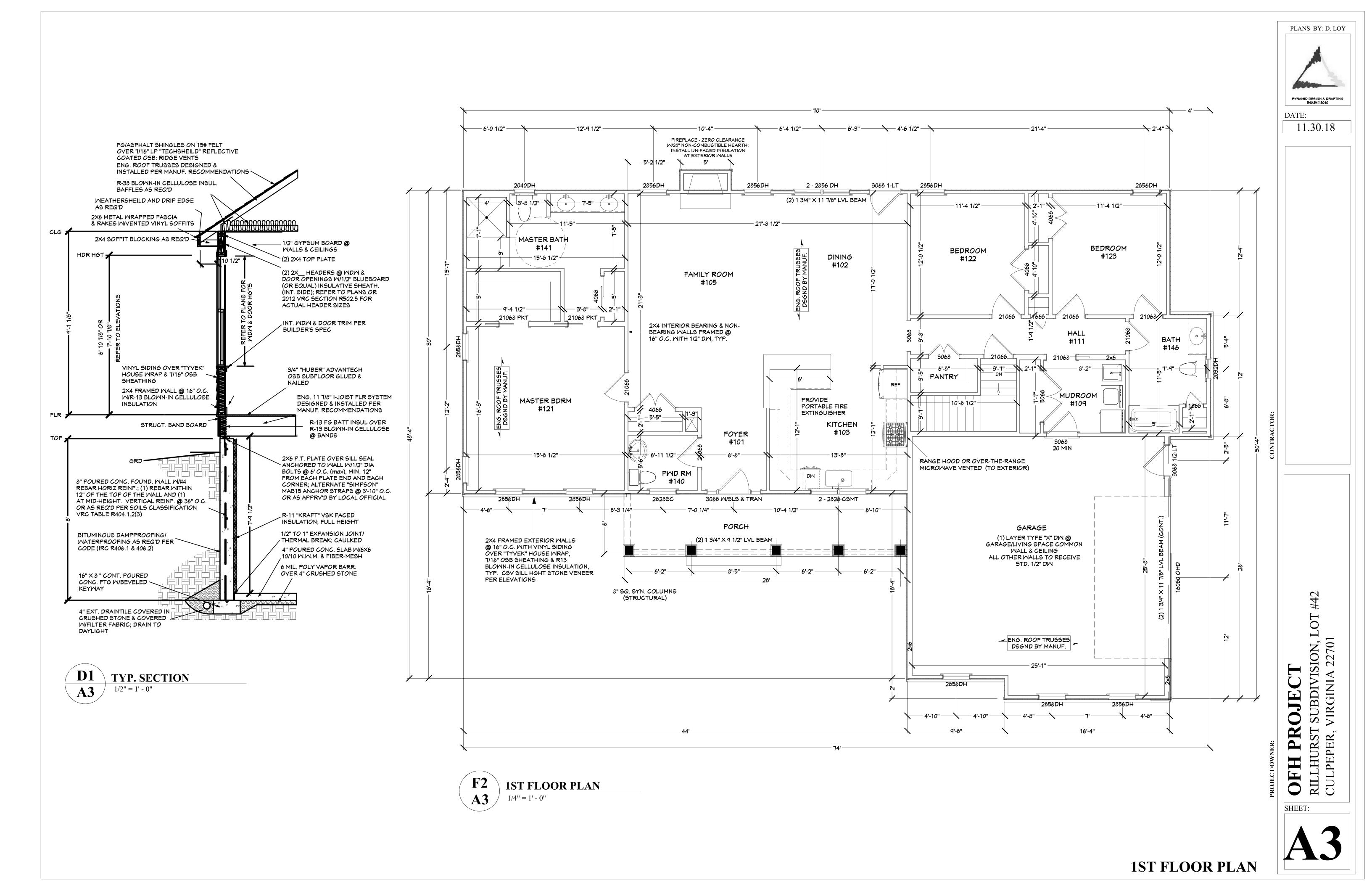
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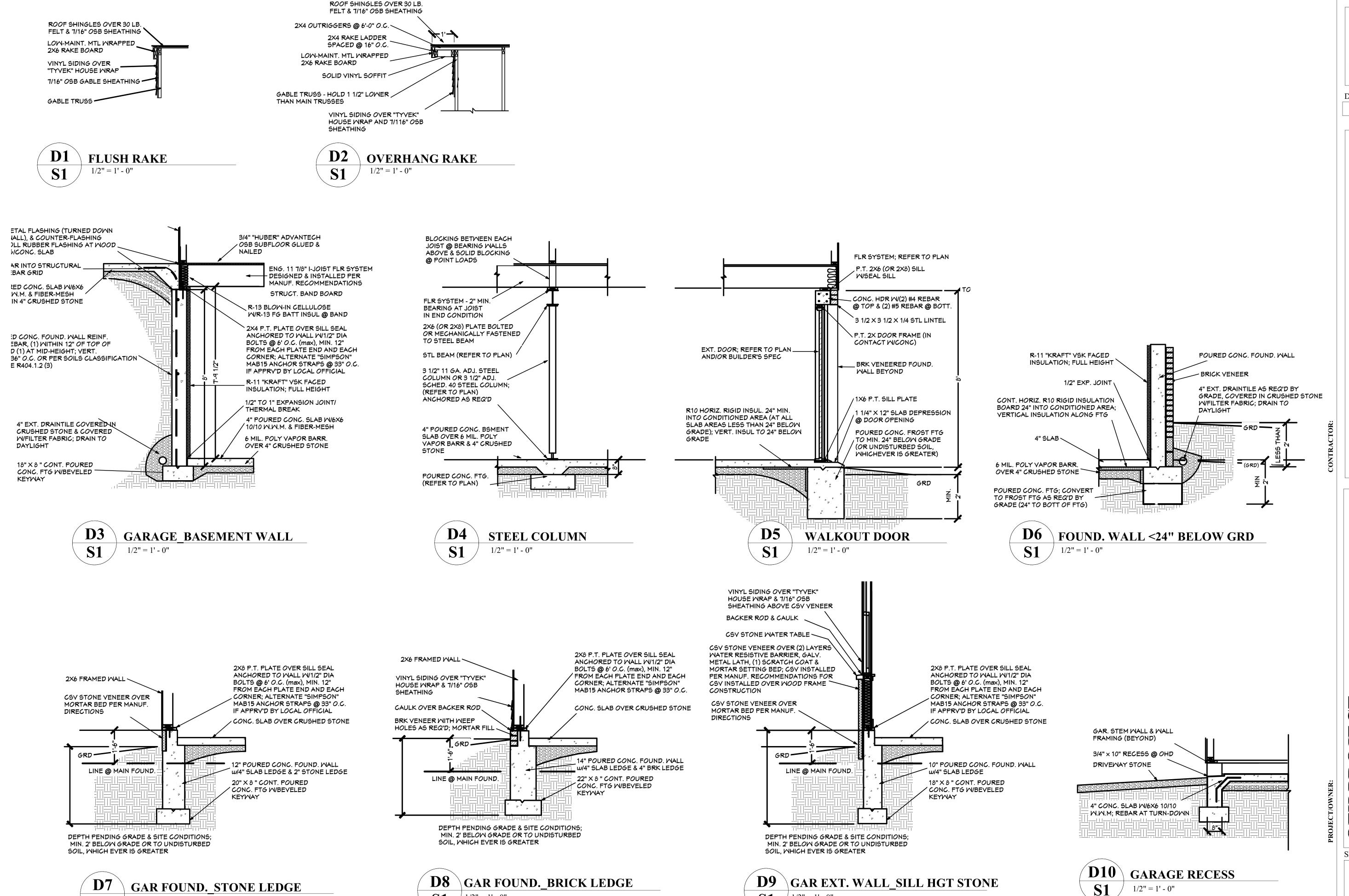
COVER SHEET





FOUNDATION PLAN





1/2" = 1' - 0"

PLANS BY: D. LOY

DATE:

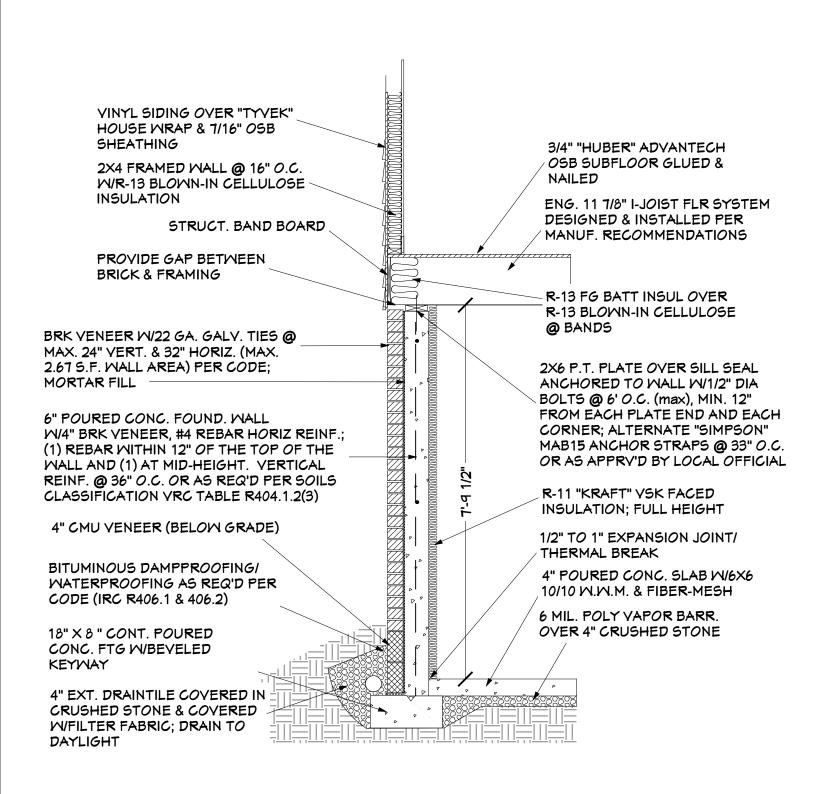
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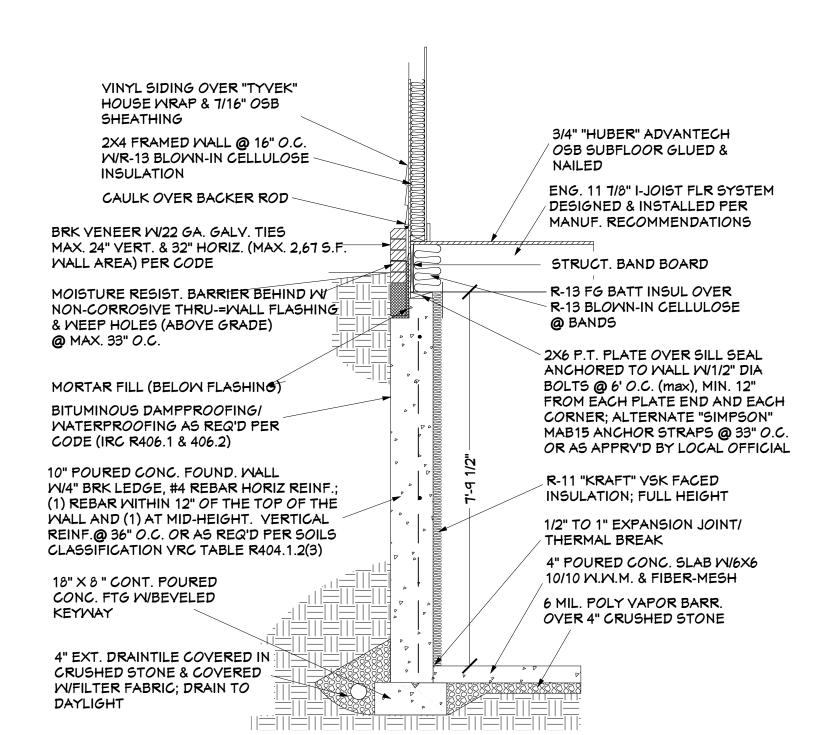
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SECTIONS/DETAILS



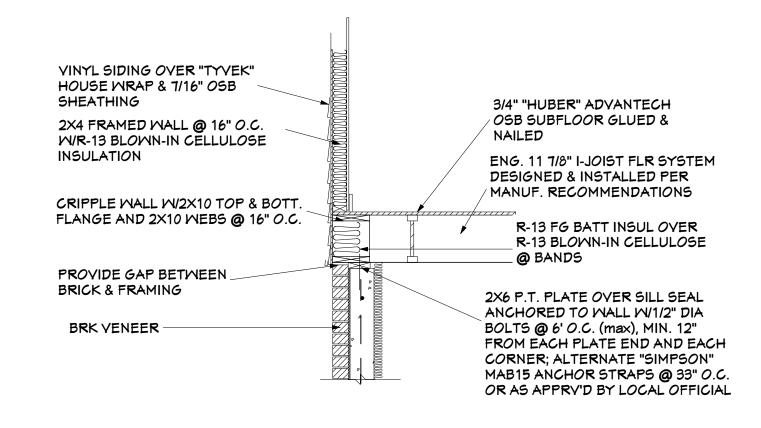
6" FOUND. WALL W/BRK VENEER



VINYL SIDING OVER "TYVEK" HOUSE WRAP & 7/16" OSB SHEATHING 3/4" "HUBER" ADVANTECH OSB SUBFLOOR GLUED & 2X4 FRAMED WALL @ 16" O.C. W/R-13 BLOWN-IN CELLULOSE ENG. 11 7/8" I-JOIST FLR SYSTEM DESIGNED & INSTALLED PER STRUCT. BAND BOARD MANUF. RECOMMENDATIONS PROVIDE GAP BETWEEN BRICK & FRAMING R-13 FG BATT INSUL OVER R-13 BLOWN-IN CELLULOSE @ BANDS BRK VENEER W/22 GA. GALV. TIES @ MAX. 24" VERT. & 32" HORIZ. (MAX. 2.67 S.F. WALL AREA) PER CODE; 2X6 P.T. PLATE OVER SILL SEAL MORTAR FILL ANCHORED TO WALL W/1/2" DIA BOLTS @ 6' O.C. (max), MIN. 12" FROM EACH PLATE END AND EACH 8" POURED CONG. FOUND. WALL CORNER; ALTERNATE "SIMPSON" W/4" BRK YENEER, #4 REBAR HORIZ REINF.; MAB15 ANCHOR STRAPS @ 33" O.C. (1) REBAR WITHIN 12" OF THE TOP OF THE OR AS APPRY'D BY LOCAL OFFICIAL WALL AND (1) AT MID-HEIGHT. VERTICAL REINF. @ 36" O.C. OR AS REQ'D PER SOILS R-11 "KRAFT" VSK FACED CLASSIFICATION VRC TABLE R404.1.2(3) INSULATION; FULL HEIGHT 4" CMU VENEER (BELOW GRADE) 1/2" TO 1" EXPANSION JOINT/ THERMAL BREAK BITUMINOUS DAMPPROOFING! 4" POURED CONC. SLAB W/6X6 WATERPROOFING AS REQ'D PER 10/10 M.M.M. & FIBER-MESH CODE (IRC R406.1 & 406.2) 6 MIL. POLY VAPOR BARR. OVER 4" CRUSHED STONE 18" X 8 " CONT. POURED CONC. FTG W/BEVELED KEYMAY 4" EXT. DRAINTILE COVERED IN CRUSHED STONE & COYERED W/FILTER FABRIC; DRAIN TO

8" FOUND. WALL W/BRK VENEER 1/2" = 1' - 0"

DAYLIGHT



COMMON WALLS R-13 BLOW-IN CELLULOSE W/R-13 FG BATT INSUL @ BAND 2X6 FRAMED WALL W/ 3/4" "HUBER" ADYANTECH R-19 INSULATION OSB SUBFLOOR GLUED & NAILED GALV. METAL FLASHING (TURNED DOWN CONC. WALL), & COUNTER-FLASHING OVER ROLL RUBBER FLASHING AT WOOD FRAMING/CONC. SLAB - 3'-8 1/2"· ENG. 11 7/8" I-JOIST FLR SYSTEM DESIGNED & INSTALLED PER 1-1/2" (FLAT 2X4) FURRING - 3'-7" MANUF. RECOMMENDATIONS OVER FELT PAPER PREFABRICATED STAIRS 1/2" DRYMALL R-5 DOW BLUEBOARD @ FURRED WALL 24 FRAMED WALL W/P.T. BOTT. PLATE 16"X 8" THICKEN SLAB

2X4 CRIPPLE WALL INFILL

10" FOUND. WALL W/BRK-TO-GRD

3/4" "HUBER" ADYANTECH

OSB SUBFLOOR GLUED &

ENG. 11 7/8" I-JOIST FLR SYSTEM

DESIGNED & INSTALLED PER

MANUF. RECOMMENDATIONS

- R-13 FG BATT INSUL OVER

@ BANDS

R-13 BLOWN-IN CELLULOSE

2X6 P.T. PLATE OVER SILL SEAL

ANCHORED TO WALL W/1/2" DIA

CORNER; ALTERNATE "SIMPSON"

MAB15 ANCHOR STRAPS @ 33" O.C.

OR AS APPRV'D BY LOCAL OFFICIAL

BOLTS @ 6' O.C. (max), MIN. 12" FROM EACH PLATE END AND EACH

R-11 "KRAFT" VSK FACED

INSULATION; FULL HEIGHT

1/2" TO 1" EXPANSION JOINT/

4" POURED CONC. SLAB W/6X6

THERMAL BREAK; CAULKED

10/10 M.M.M. & FIBER-MESH

6 MIL. POLY VAPOR BARR.

OVER 4" CRUSHED STONE

VINYL SIDING OVER "TYVEK"

2X4 FRAMED WALL @ 16" O.C.

W/R-13 BLOWN-IN CELLULOSE ~

HOUSE WRAP & 7/16" OSB

STRUCT. BAND BOARD

PROVIDE GAP BETWEEN

BRK VENEER W/22 GA. GALV. TIES MAX.

24" VERT. & 32" HORIZ. (MAX. 2.67 S.F.

BRICK & FRAMING

BITUMINOUS DAMPPROOFING/

CODE (IRC R406.1 & 406.2)

18" X 8 " CONT. POURED

CONC. FTG W/BEVELED

4" EXT. DRAINTILE COYERED IN

CRUSHED STONE & COVERED

W/FILTER FABRIC; DRAIN TO

KEYMAY

DAYLIGHT

WATERPROOFING AS REQ'D PER

10" POURED CONC. FOUND. WALL

W/4" BRK LEDGE, #4 REBAR HORIZ REINF.;

(1) REBAR WITHIN 12" OF THE TOP OF THE

REINF.@ 36" O.C. OR AS REQ'D PER SOILS

1/2" = 1' - 0"

TYPE-X RATED DW @

GARAGE/LIVING SPACE

WALL AND (1) AT MID-HEIGHT. VERTICAL

CLASSIFICATION VRC TABLE R404.1.2(3)

SHEATHING

INSULATION

MALL AREA) PER CODE

MORTAR FILL

10" FOUND. WALL W/BRK LEDGE 1/2" = 1' - 0"

PARALLEL FLR FRAMING @ BRK-TO-GRD **S2** 1/2" = 1' - 0"

BSMNT STEPS @ FOUND. WALL **S2** 1/2" = 1' - 0"

PLANS BY: D. LOY

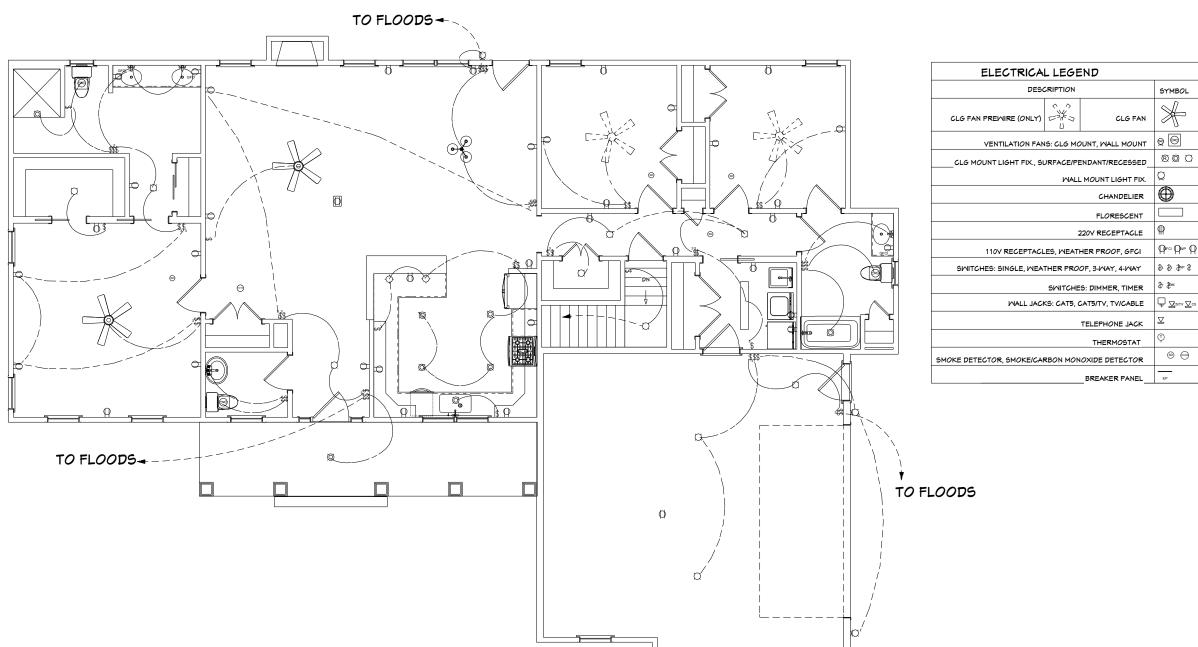
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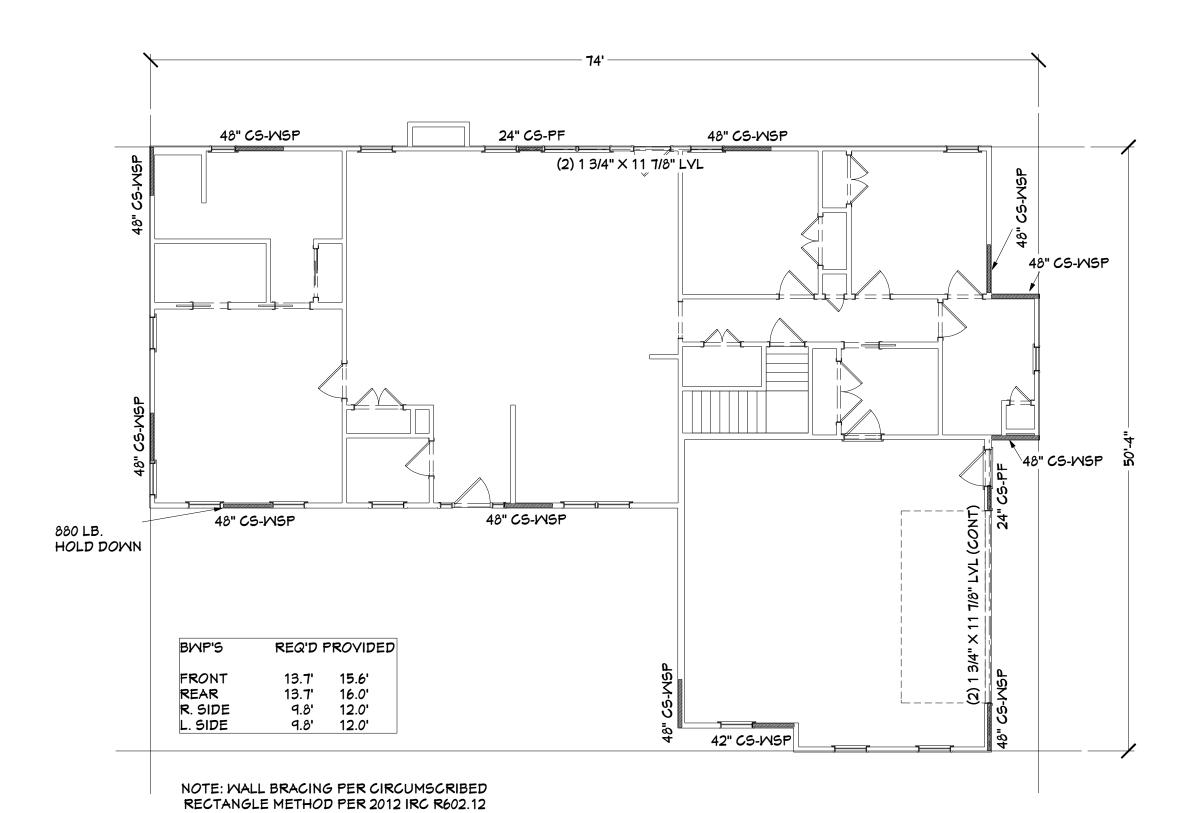
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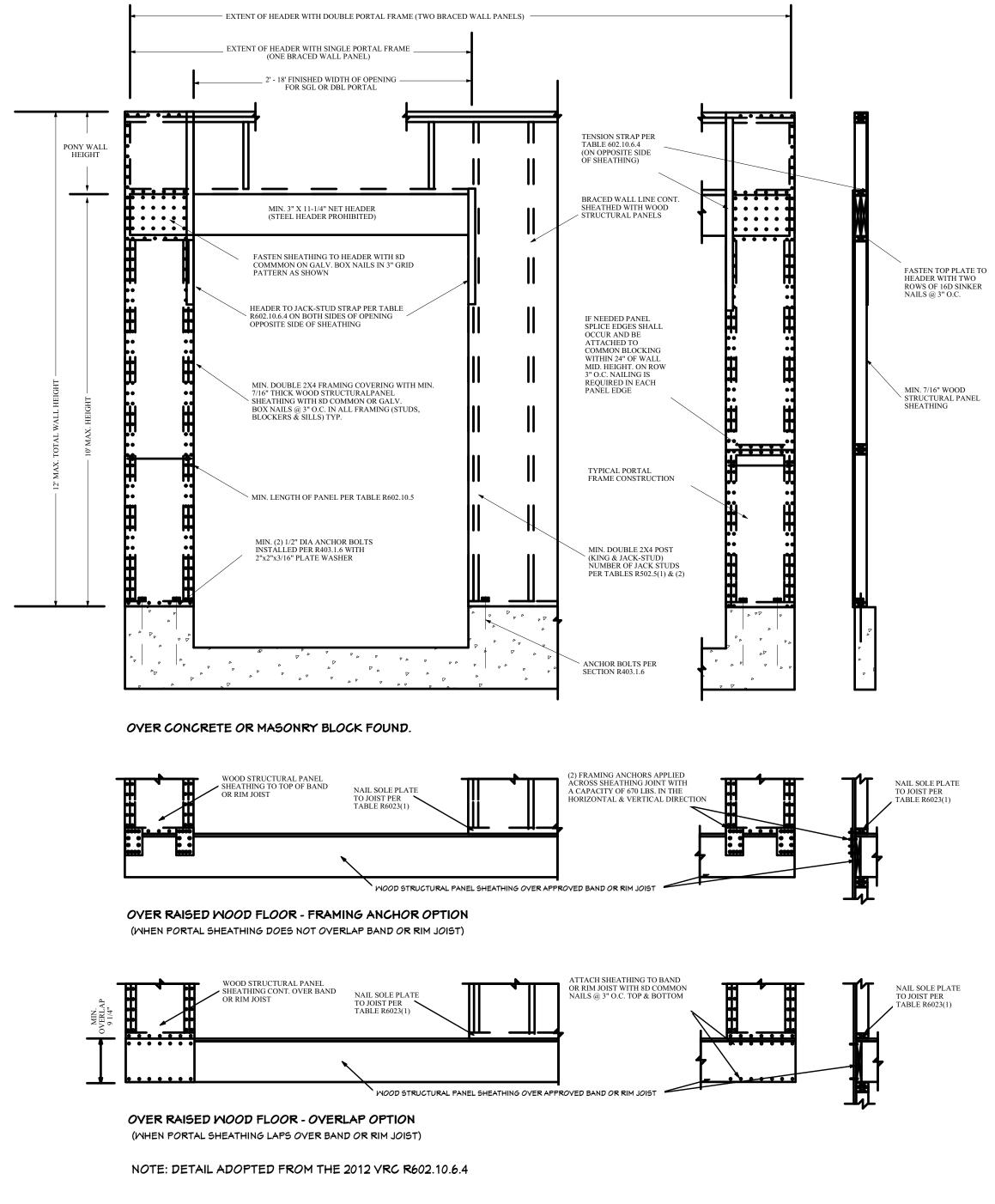


ELECTRICAL DIAGRAMS



CS-MSP - CONT. SHEATHED MOOD STRUCTURAL PANEL CS-PF - CONT. SHEATHED PORTAL FRAME (DETAIL D11/S2)





D10 CS-PF DETAIL

1/2" = 1' - 0"

ELEC & BWL DIAGRAMS

PLANS BY: D. LOY

DATE:

11.30.18