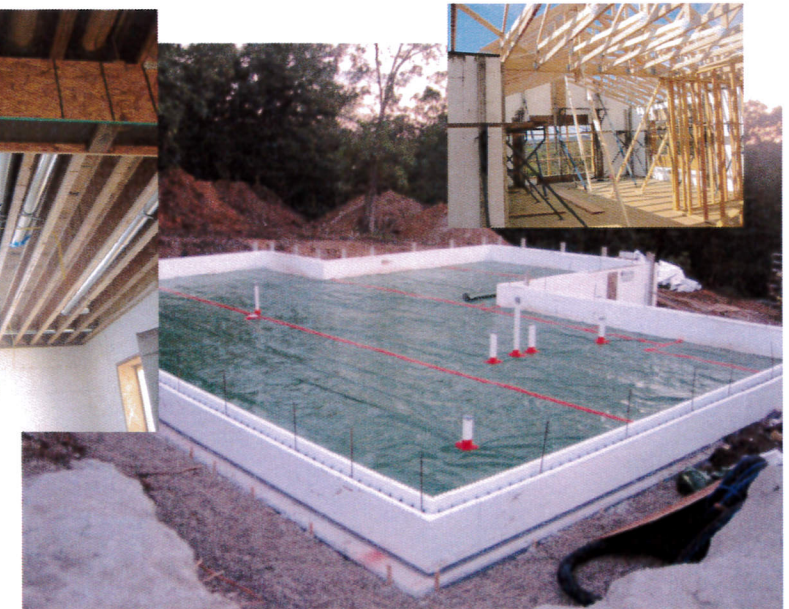
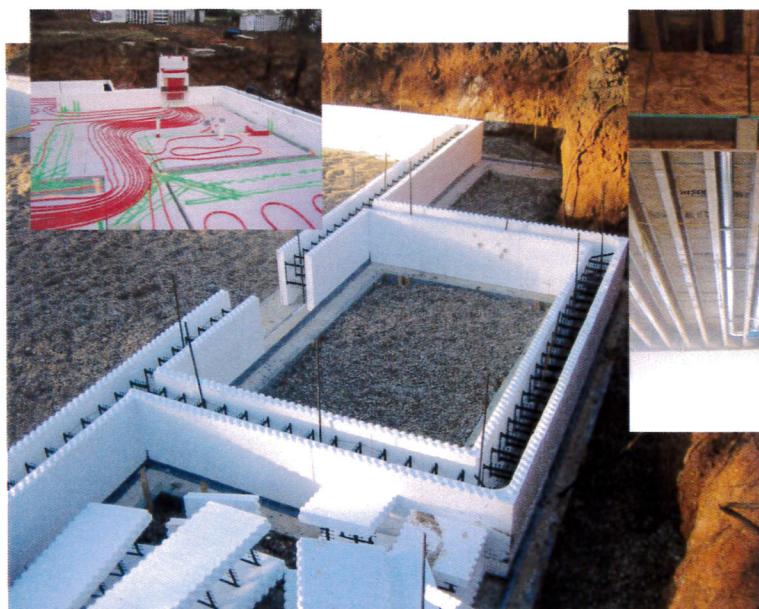
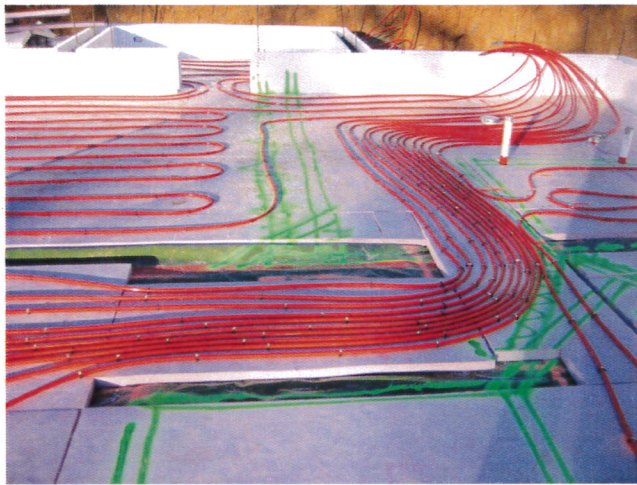




1768 Shore Street—Truro IA



House Features:

- Insulated concrete forms on all basement and main floor exterior walls, including garage walls
 - Reward brand wall forms, work installed by Newcastle Construction out of Winterset
- Foundation waterproofed with peel and stick product and further protected by foundation drain mat
- Hardi-plank cement board siding with Sherwin-Williams duration paint
- 24 gauge standing seam metal roof with ice/water shield beneath(entire roof) and 6" seamless gutters
- Closed cell insulation garage door
- Blown in attic insulation
- Wood gasification boiler system to heat house and domestic hot water (automatic electric backup system for house heat). Force air heat with water-to-air heat exchanger in the supply ductwork and in floor radiant heat in basement and garage (tempered water supplied from boiler system)
- High efficiency air conditioner with 2-stage compressor
- 2" of insulation (R-10 'pink board')below basement and garage floors to create a thermal break
- Commercial moisture barrier beneath basement and garage floor and several inches of pea gravel beneath barrier
- Exterior fresh air intake tied to HVAC return duct to maintain indoor air quality
- Engineering firm performed heating and cooling load calculations, room-by-room air flow calculations, and ductwork sizing
- Soils were tested by engineering firm for expansive characteristics and suggestions implemented to eliminate soil expansion possibilities (3' of compacted stone beneath foundation with drainage tile below and extra-deep footing at rear of house.....approximately 8' deep)
- Foundation drains (footing form-a-drain & sub-based drainage) connect to a French drain that exits the hill behind the house (no sump pump to worry about)
- Active radon mitigation system installed (powered fan connected to footing form-a-drain and pea gravel)
- 200amp electrical service with 12 gauge wiring on 20amp breakers on all normal house circuits (lighter duty 14 gauge with 15amp breakers are typical in residential construction). Additional sub electrical panels are located in the garage and boiler room for quick accessibility.
- Manual generator transfer switch tied to the main 200amp electrical panel with exterior generator connection box (generator feeds refrigerator, living room lights, fireplace, water heater, and hallway bathroom lights)
- Anderson 400 series windows throughout house
- Re-claimed wood floor (entry/dining) from old turn of the century house original to the property
- Living room mantle from axe cut beam found beneath old house on property (believe to be from a building in the town (Prairie Grove) that was on the property in the 1800's)
- Deck material is cedar stainless steel cables and hardware incorporated into the railing

- Basement gun vault room (approximately 8' x 9') with Liberty brand vault door (2 sides of ½" plate steel with insulated center and fire seals); interior walls have pine car siding installed
- 2000 gallon septic tank with traditional lateral field at the bottom of the hill
- Propane fireplace, kitchen stove, and water heater (supplements and backs up the boiler system's connection to the domestic hot water)
- Domestic hot water recirculation line (provides instant hot water to all faucets)
- Kraftmade birch kitchen/bathroom cabinets
- Solid oak 1"x4 and 1"x6" trim
- Solid core oak 6-panel doors throughout
- Rural water service (SIRWA)
- Clarke Electric Cooperative electrical service



PLUM DESIGN SERVICES
11000 N. 110TH AVENUE, SUITE 1000, DALLAS, TEXAS 75243
TEL: 214.343.1100 FAX: 214.343.1101

PLUM DESIGN SERVICES, INC. (PDS) is a leading provider of design services for the construction industry. PDS is a member of the Plum Building Systems, LLC family of companies. PDS is a leader in the design of commercial, institutional, and residential buildings. PDS is a leader in the design of buildings that are sustainable, efficient, and cost-effective. PDS is a leader in the design of buildings that are safe, secure, and healthy. PDS is a leader in the design of buildings that are beautiful and inspiring.

Schack Residence

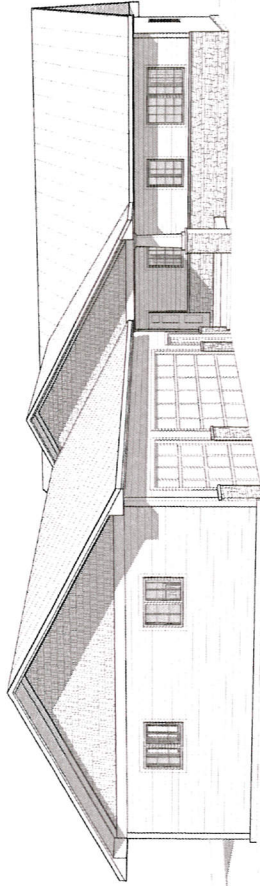
PROJECT ID: PDS 1757

ISSUE DATE:
DATE: 07/07/10
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REVISIONS:
DATE: 09/03/10
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DATE:

Cover Page
As indicated

A.0



DRAWING LIST

Rev	Over Page
A.0	0
A.1	1
A.2	2
A.3	3
A.4	4

ELECTRIC SYMBOLS

Symbol	Description
⊕	Ground
⊖	Neutral
⊙	Phase
⊚	Light
⊛	Switch
⊜	Outlet
⊝	Panel
⊞	Transformer
⊠	Motor
⊡	Generator
⊣	Relay
⊤	Control
⊥	Antenna
⊦	Waveguide
⊧	Coaxial
⊨	Fiber
⊩	Optical
⊪	Acoustic
⊫	Mechanical
⊬	Thermal
⊭	Electromagnetic
⊮	Hydraulic
⊯	Pneumatic
⊰	Chemical
⊱	Biological
⊲	Environmental
⊳	Social
⊴	Economic
⊵	Political
⊶	Legal
⊷	Medical
⊸	Artistic
⊹	Scientific
⊺	Historical
⊻	Geographical
⊼	Anthropological
⊽	Linguistic
⊾	Philosophical
⊿	Religious
⋀	Mathematical
⋁	Logical
⋂	Set Theory
⋃	Union
⋄	Intersection
⋅	Product
⋆	Sum
⋇	Difference
⋈	Quotient
⋉	Power
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⋌	Exponential
⋍	Trigonometric
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⋏	Statistics
⋐	Probability
⋑	Combinatorics
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⋓	Decision Theory
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⋕	Management Science
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PLUM DESIGN SERVICES
THUNDERBOLT, ARIZONA 85001-1000
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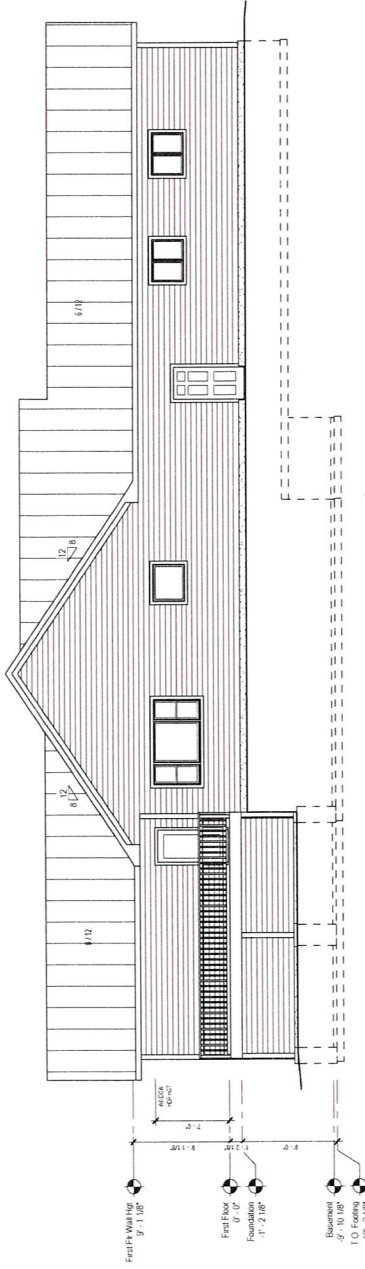
PROJECT ID: PDS 1757

ISSUE DATE:
DATE: 07/27/10
DATE: 07/29/10
DATE: 07/28/10

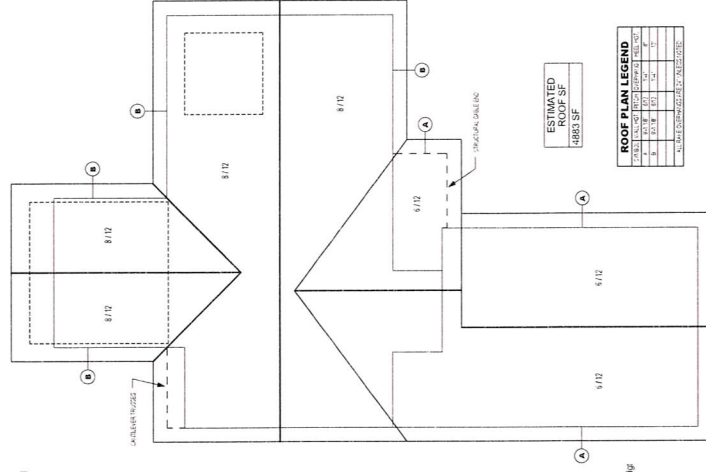
REVISIONS:
DATE: 09/03/10
DATE: 09/10/10
DATE:

Elevations
As indicated

A.2



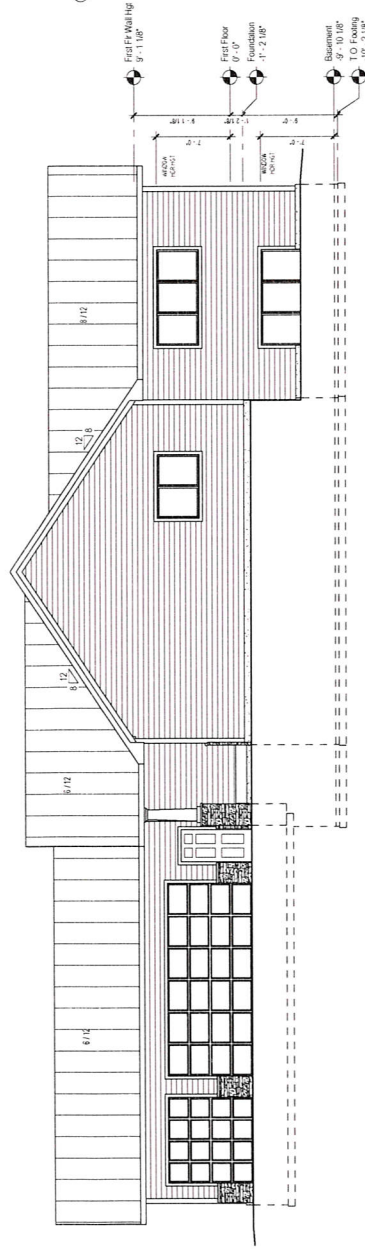
1 LEFT ELEVATION
Scale: 3/16\"/>



3 ROOF PLAN
Scale: 1/8\"/>

ESTIMATED
ROOF SF
4883 SF

ROOF PLAN LEGEND			
12/12	10,000	12/12	10,000
8/12	1,000	6/12	1,000
6/12	1,000	4/12	1,000
4/12	1,000	2/12	1,000
2/12	1,000	0/12	1,000
0/12	1,000	12/12	10,000



2 RIGHT ELEVATION
Scale: 3/16\"/>



PLUM DESIGN SERVICES
11000 10TH STREET, SUITE 100, FARMERSBURGH, NY 14724
TEL: 716.662.1000 FAX: 716.662.1001

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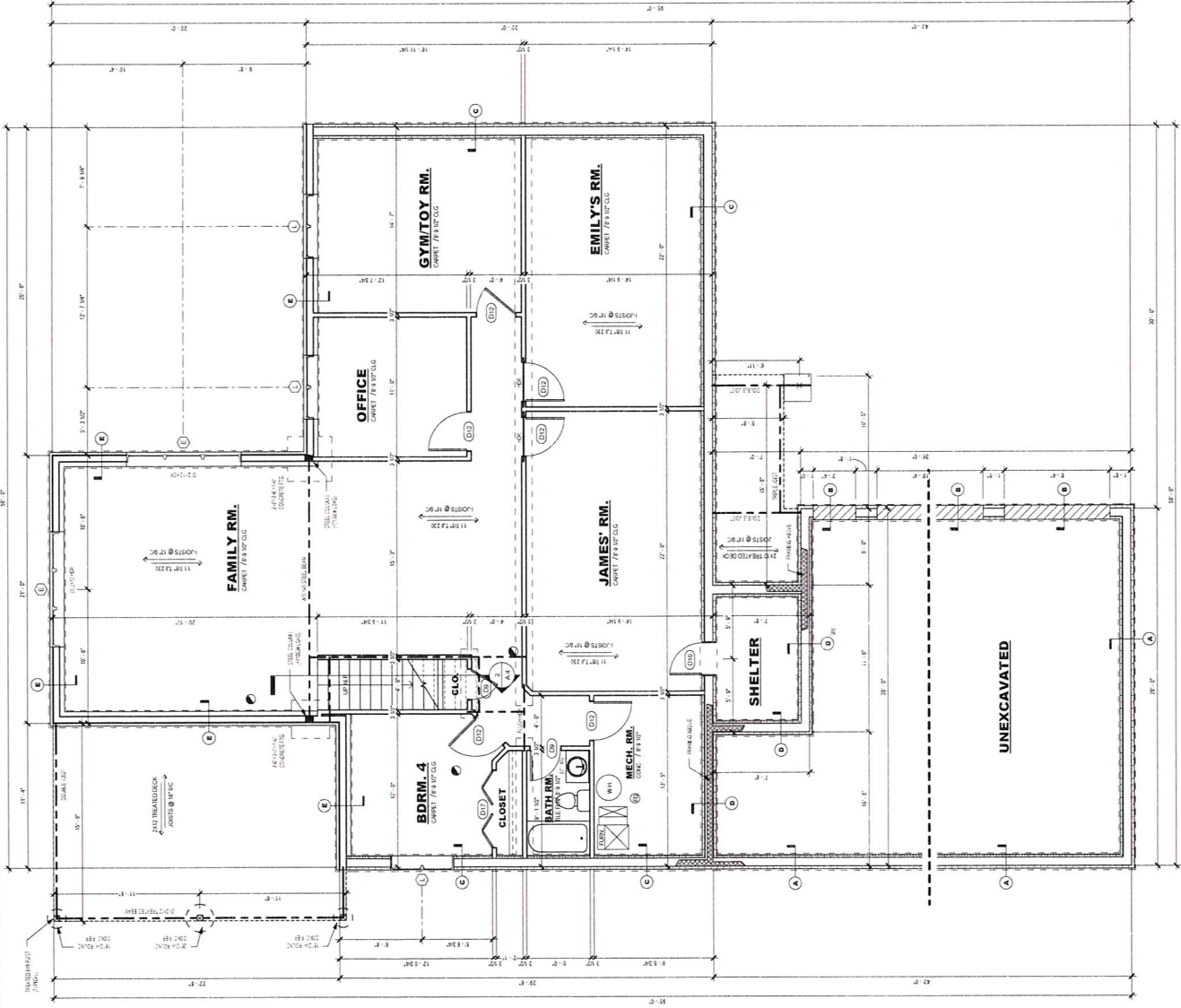
ISSUE DATE: 07/07/10
DATE: 07/19/10
DATE: 07/28/10

REVISIONS:
DATE: 09/03/10
DATE: 09/10/10
DATE:

Foundation
As indicated

A.3

AREA SCHEDULE CROSS REFERENCE	
AREA	SOFT
Foundation	2012.00
Foundation	2012.00
Foundation	2012.00
Foundation	2012.00



WINDOW SCHEDULE			
WINDOW ID	QTY	TYPE	REMARKS
A	1	Double Hung	4' x 6'
B	1	Double Hung	4' x 6'
C	1	Double Hung	4' x 6'
D	1	Double Hung	4' x 6'
E	1	Double Hung	4' x 6'
F	1	Double Hung	4' x 6'
G	1	Double Hung	4' x 6'
H	1	Double Hung	4' x 6'
I	1	Double Hung	4' x 6'
J	1	Double Hung	4' x 6'
K	1	Double Hung	4' x 6'
L	1	Double Hung	4' x 6'
M	1	Double Hung	4' x 6'
N	1	Double Hung	4' x 6'
O	1	Double Hung	4' x 6'
P	1	Double Hung	4' x 6'
Q	1	Double Hung	4' x 6'
R	1	Double Hung	4' x 6'
S	1	Double Hung	4' x 6'
T	1	Double Hung	4' x 6'
U	1	Double Hung	4' x 6'
V	1	Double Hung	4' x 6'
W	1	Double Hung	4' x 6'
X	1	Double Hung	4' x 6'
Y	1	Double Hung	4' x 6'
Z	1	Double Hung	4' x 6'

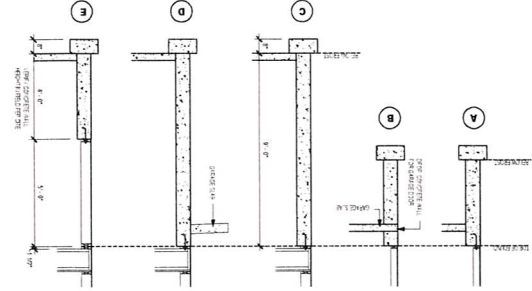
DOOR SCHEDULE			
DOOR ID	QTY	DOOR SIZE	REMARKS
A	1	6'0" x 8'0"	Entry Door
B	1	6'0" x 8'0"	Living Room Door
C	1	6'0" x 8'0"	Dining Room Door
D	1	6'0" x 8'0"	Kitchen Door
E	1	6'0" x 8'0"	Bedroom Door
F	1	6'0" x 8'0"	Bathroom Door
G	1	6'0" x 8'0"	Shed Door
H	1	6'0" x 8'0"	Garage Door
I	1	6'0" x 8'0"	Back Door
J	1	6'0" x 8'0"	Front Door
K	1	6'0" x 8'0"	Side Door
L	1	6'0" x 8'0"	Staircase Door
M	1	6'0" x 8'0"	Storage Room Door
N	1	6'0" x 8'0"	Attic Door
O	1	6'0" x 8'0"	Basement Door
P	1	6'0" x 8'0"	Garage Door
Q	1	6'0" x 8'0"	Back Door
R	1	6'0" x 8'0"	Front Door
S	1	6'0" x 8'0"	Side Door
T	1	6'0" x 8'0"	Staircase Door
U	1	6'0" x 8'0"	Storage Room Door
V	1	6'0" x 8'0"	Attic Door
W	1	6'0" x 8'0"	Basement Door
X	1	6'0" x 8'0"	Garage Door
Y	1	6'0" x 8'0"	Back Door
Z	1	6'0" x 8'0"	Front Door

GENERAL CONSTRUCTION NOTES

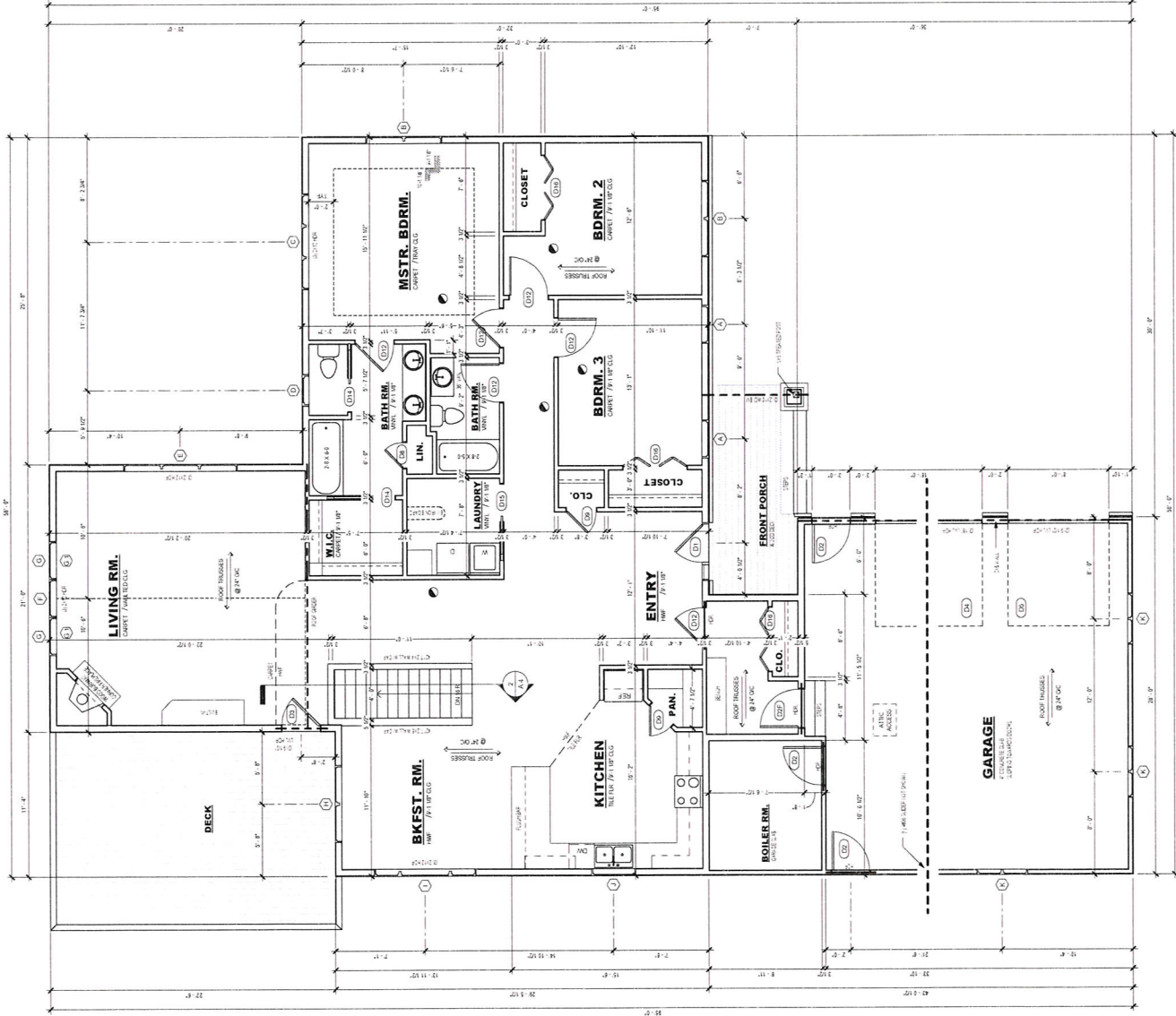
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL RESIDENTIAL CODE BOOK (IRC) AND THE INTERNATIONAL BUILDING CODE (IBC).
- 2. ALL FOUNDATION WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOUNDATION DESIGN AND CONSTRUCTION HANDBOOK (FDC).
- 3. ALL ROOFING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ROOFING DESIGN AND CONSTRUCTION HANDBOOK (RDC).
- 4. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MECHANICAL DESIGN AND CONSTRUCTION HANDBOOK (MDC).
- 5. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ELECTRICAL DESIGN AND CONSTRUCTION HANDBOOK (EDC).
- 6. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE PLUMBING DESIGN AND CONSTRUCTION HANDBOOK (PDC).
- 7. ALL FINISHES SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FINISHES DESIGN AND CONSTRUCTION HANDBOOK (FDC).
- 8. ALL MATERIALS SHALL BE OF THE BEST QUALITY AVAILABLE AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
- 9. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED TIME FRAME AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.
- 10. ALL WORK SHALL BE COMPLETED WITHIN THE SPECIFIED BUDGET AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ARCHITECT.

AREA SCHEDULE (FLOOR PLAN)	
LOCATION	AREA
Foundation	1011.00
Foundation	1011.00

FOUNDATION SECTIONS



DATE	DESCRIPTION	BY	CHK
07/07/10	Issue	PLM	PLM
07/19/10	Revised	PLM	PLM
07/28/10	Revised	PLM	PLM
09/09/10	Revised	PLM	PLM
09/10/10	Revised	PLM	PLM

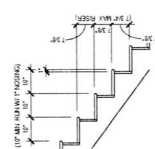


WINDOW ID	QTY	TYPE	WIDTH	HEIGHT	SPECIAL NOTES
A	1	1000 Series	12'-0"	12'-0"	Medium Egress
B	1	1000 Series	12'-0"	12'-0"	Medium Egress
C	1	1000 Series	12'-0"	12'-0"	Medium Egress
D	1	1000 Series	12'-0"	12'-0"	Medium Egress
E	1	1000 Series	12'-0"	12'-0"	Medium Egress
F	1	1000 Series	12'-0"	12'-0"	Medium Egress
G	1	1000 Series	12'-0"	12'-0"	Medium Egress
H	1	1000 Series	12'-0"	12'-0"	Medium Egress
I	1	1000 Series	12'-0"	12'-0"	Medium Egress
J	1	1000 Series	12'-0"	12'-0"	Medium Egress
K	1	1000 Series	12'-0"	12'-0"	Medium Egress
L	1	1000 Series	12'-0"	12'-0"	Medium Egress
M	1	1000 Series	12'-0"	12'-0"	Medium Egress
N	1	1000 Series	12'-0"	12'-0"	Medium Egress
O	1	1000 Series	12'-0"	12'-0"	Medium Egress
P	1	1000 Series	12'-0"	12'-0"	Medium Egress
Q	1	1000 Series	12'-0"	12'-0"	Medium Egress
R	1	1000 Series	12'-0"	12'-0"	Medium Egress
S	1	1000 Series	12'-0"	12'-0"	Medium Egress
T	1	1000 Series	12'-0"	12'-0"	Medium Egress
U	1	1000 Series	12'-0"	12'-0"	Medium Egress
V	1	1000 Series	12'-0"	12'-0"	Medium Egress
W	1	1000 Series	12'-0"	12'-0"	Medium Egress
X	1	1000 Series	12'-0"	12'-0"	Medium Egress
Y	1	1000 Series	12'-0"	12'-0"	Medium Egress
Z	1	1000 Series	12'-0"	12'-0"	Medium Egress

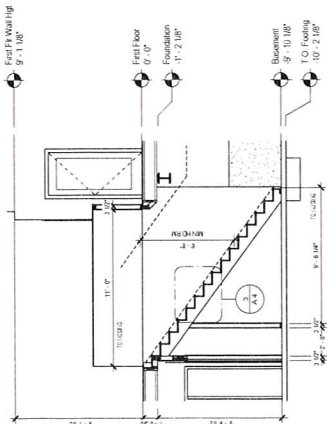
DOOR ID	QTY	TYPE	WIDTH	HEIGHT	SPECIAL NOTES
A	1	1000 Series	12'-0"	12'-0"	Medium Egress
B	1	1000 Series	12'-0"	12'-0"	Medium Egress
C	1	1000 Series	12'-0"	12'-0"	Medium Egress
D	1	1000 Series	12'-0"	12'-0"	Medium Egress
E	1	1000 Series	12'-0"	12'-0"	Medium Egress
F	1	1000 Series	12'-0"	12'-0"	Medium Egress
G	1	1000 Series	12'-0"	12'-0"	Medium Egress
H	1	1000 Series	12'-0"	12'-0"	Medium Egress
I	1	1000 Series	12'-0"	12'-0"	Medium Egress
J	1	1000 Series	12'-0"	12'-0"	Medium Egress
K	1	1000 Series	12'-0"	12'-0"	Medium Egress
L	1	1000 Series	12'-0"	12'-0"	Medium Egress
M	1	1000 Series	12'-0"	12'-0"	Medium Egress
N	1	1000 Series	12'-0"	12'-0"	Medium Egress
O	1	1000 Series	12'-0"	12'-0"	Medium Egress
P	1	1000 Series	12'-0"	12'-0"	Medium Egress
Q	1	1000 Series	12'-0"	12'-0"	Medium Egress
R	1	1000 Series	12'-0"	12'-0"	Medium Egress
S	1	1000 Series	12'-0"	12'-0"	Medium Egress
T	1	1000 Series	12'-0"	12'-0"	Medium Egress
U	1	1000 Series	12'-0"	12'-0"	Medium Egress
V	1	1000 Series	12'-0"	12'-0"	Medium Egress
W	1	1000 Series	12'-0"	12'-0"	Medium Egress
X	1	1000 Series	12'-0"	12'-0"	Medium Egress
Y	1	1000 Series	12'-0"	12'-0"	Medium Egress
Z	1	1000 Series	12'-0"	12'-0"	Medium Egress

GENERAL CONSTRUCTION NOTES

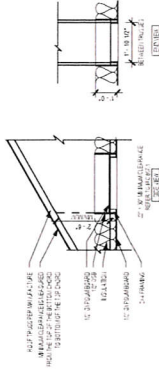
- SEE PLAN FOR FINISHES AND MATERIALS.
- ALL FINISHES ARE TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND THE 2009 INTERNATIONAL MECHANICAL AND ELECTRICAL CODES.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND THE 2009 INTERNATIONAL MECHANICAL AND ELECTRICAL CODES.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND THE 2009 INTERNATIONAL MECHANICAL AND ELECTRICAL CODES.
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- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE 2009 INTERNATIONAL RESIDENTIAL CODE AND THE 2009 INTERNATIONAL MECHANICAL AND ELECTRICAL CODES.



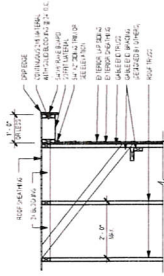
3 STAIRS CALLOUT



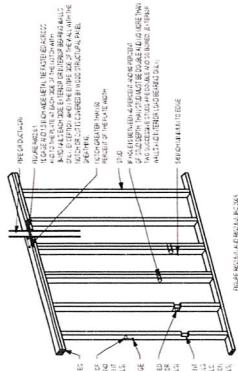
2 STAR SECTION



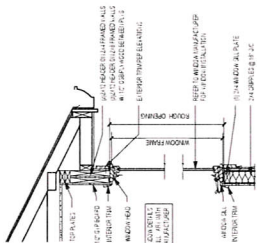
7 ATTIC ACCESS OPENING
Scale: 1/2" = 1'-0"



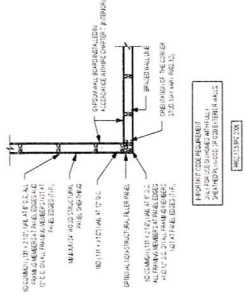
8 RAKE OVERHANG WOOD
Scale: 1/2" = 1'-0"



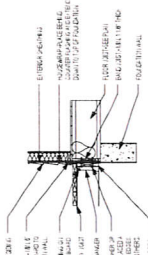
2 NOTCHING AND BORING HOLE LIMITATIONS
Scale: 1/2" = 1'-0"



5 TYPICAL EXTERIOR HEADER
Scale: 1/2" = 1'-0"



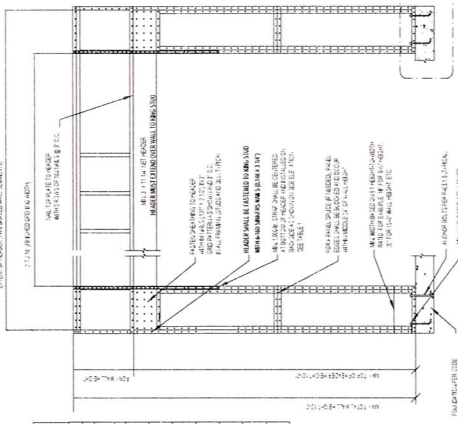
4 APA (CS-WSP) OUTSIDE CORNER
Scale: 1/2" = 1'-0"



1 DECK LEDGER CONNECTION
Scale: 1/2" = 1'-0"



3 APA (CS-WSP) INSIDE CORNER
Scale: 1/2" = 1'-0"



6 APA (CS-WSP) PORTAL FRAME - EXTERIOR WALL
Scale: 1/2" = 1'-0"

15-MIN. WIND SPEED (MPH)	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT		MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	
			MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT	MIN. WIND SPEED (MPH) REQUIRED FOR RESISTANCE TO UPLIFT AND PULL-OUT
1	15	16	17	18	19	20
2	21	22	23	24	25	26
3	27	28	29	30	31	32
4	33	34	35	36	37	38
5	39	40	41	42	43	44
6	45	46	47	48	49	50
7	51	52	53	54	55	56
8	57	58	59	60	61	62
9	63	64	65	66	67	68
10	69	70	71	72	73	74
11	75	76	77	78	79	80
12	81	82	83	84	85	86
13	87	88	89	90	91	92
14	93	94	95	96	97	98
15	99	100				

OUTSIDE ELEVATION

OUTSIDE ELEVATION

APA (CS-WSP) PORTAL FRAME - EXTERIOR WALL
Scale: 1/2" = 1'-0"

9 TYPICAL WALL DETAIL
Scale: 1/2" = 1'-0"

Details
As indicated

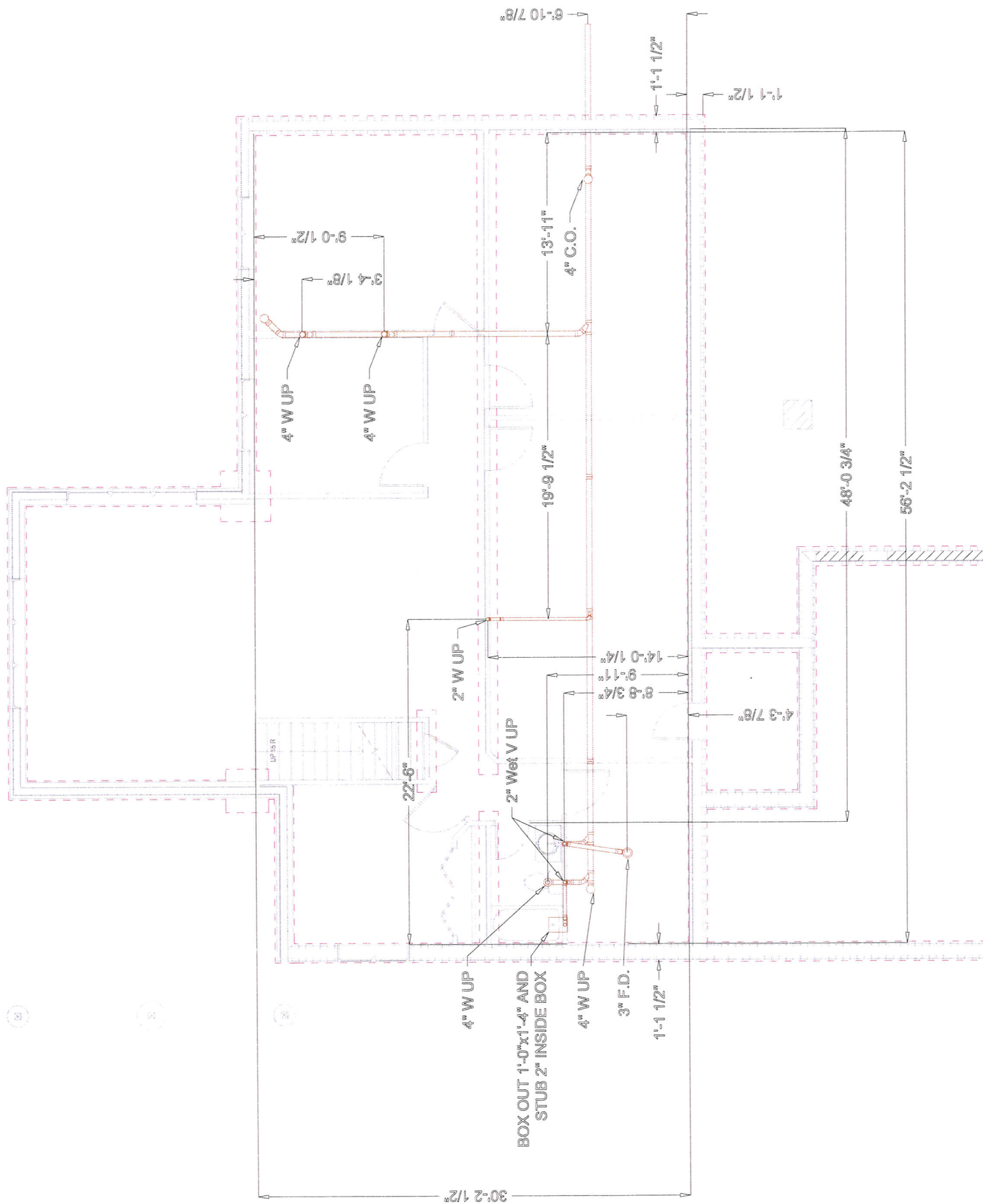
A.5

Schack Residence

PROJECT ID: PDS 1757

ISSUE DATE:
DATE: 07/07/10
DATE: 07/18/10
DATE: 07/28/10

REVISIONS:
DATE: 09/03/10
DATE: 09/10/10
DATE:



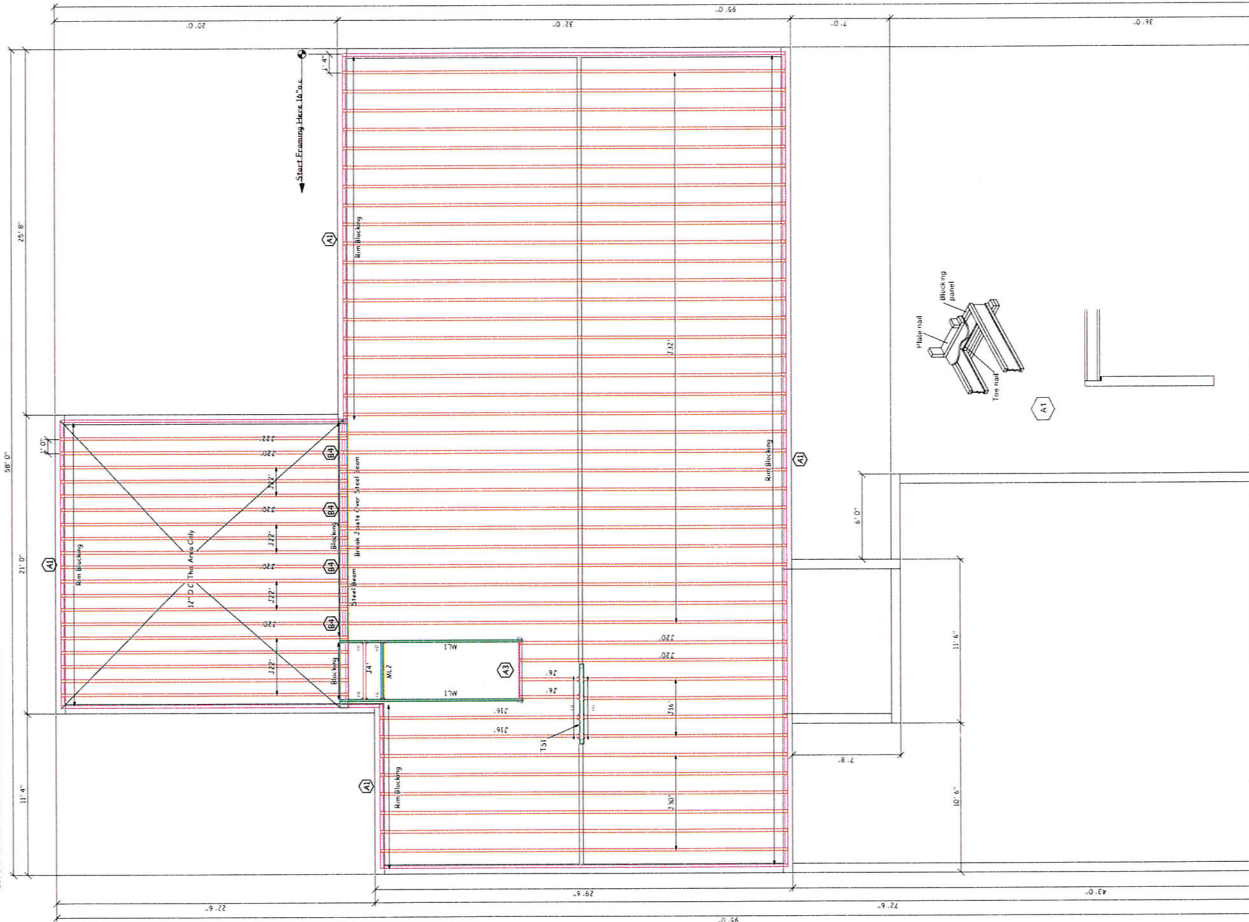


unintended deaths per mile

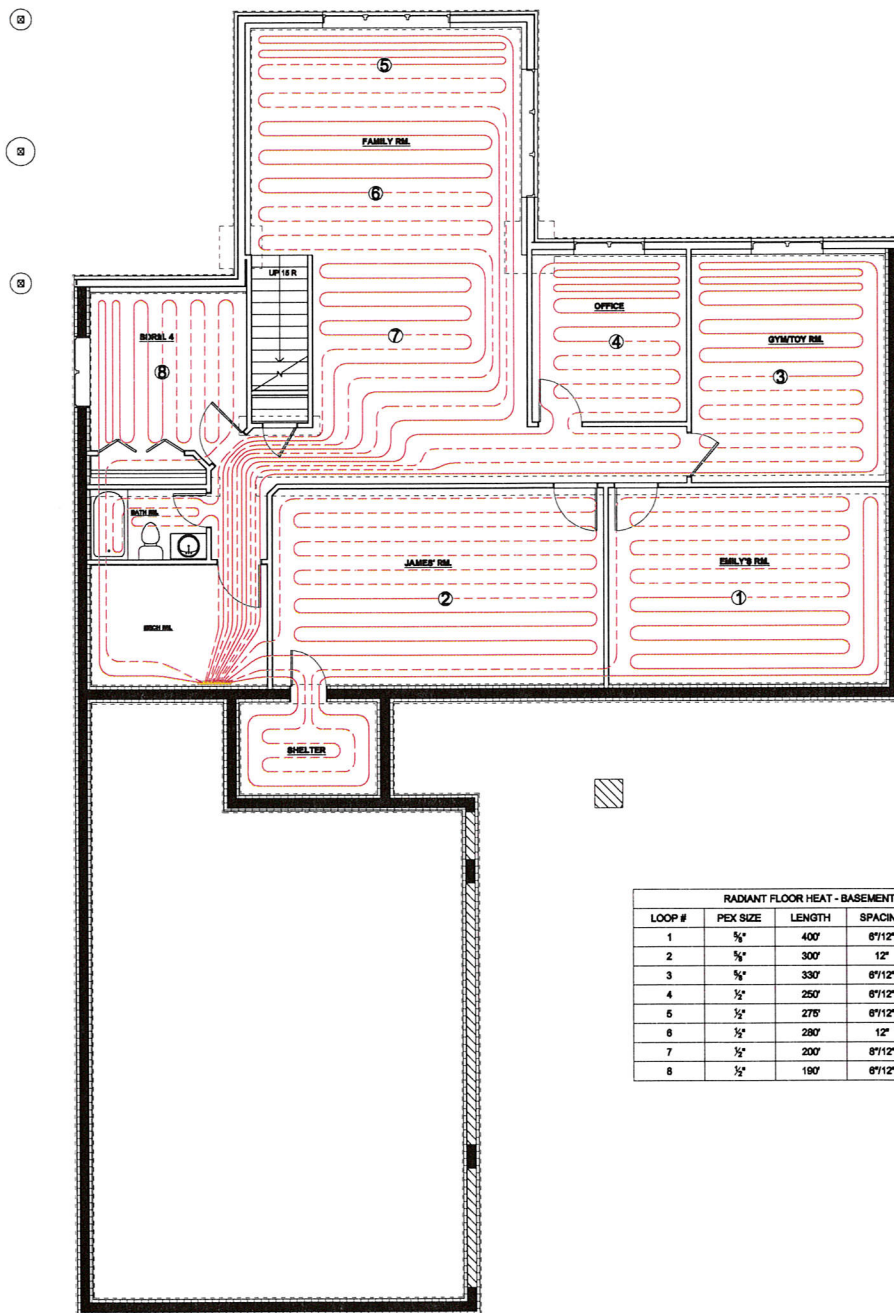
Lack of proper braking during construction can result in serious accidents. Observe the following guidelines:

- 1. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 2. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 3. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 4. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 5. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 6. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 7. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 8. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 9. When changing lanes, use the turn signal and check the mirrors and blind spots.
- 10. When changing lanes, use the turn signal and check the mirrors and blind spots.

LCR and DCR (CONFORMS 4076)	Current Date	Test Name	Weighted Average
Foundation	8/26/2020	1st Pass	518 psi
12 Pre-casting 4" joints	8/26/2020	2nd Pass	220 (184)
12 Pre-casting 5" joints	8/26/2020	3rd Pass	220 (117)
12 Pre-casting 6" joints	8/26/2020	4th Pass	220 (117)
12 Pre-casting 8" joints	8/26/2020	5th Pass	220 (117)
12 Pre-casting 10" joints	8/26/2020	6th Pass	220 (117)
12 Pre-casting 12" joints	8/26/2020	7th Pass	220 (117)
12 Pre-casting 14" joints	8/26/2020	8th Pass	220 (117)
12 Pre-casting 16" joints	8/26/2020	9th Pass	220 (117)
12 Pre-casting 18" joints	8/26/2020	10th Pass	220 (117)
12 Pre-casting 20" joints	8/26/2020	11th Pass	220 (117)
12 Pre-casting 22" joints	8/26/2020	12th Pass	220 (117)
12 Pre-casting 24" joints	8/26/2020	13th Pass	220 (117)
12 Pre-casting 26" joints	8/26/2020	14th Pass	220 (117)
12 Pre-casting 28" joints	8/26/2020	15th Pass	220 (117)
12 Pre-casting 30" joints	8/26/2020	16th Pass	220 (117)
12 Pre-casting 32" joints	8/26/2020	17th Pass	220 (117)
12 Pre-casting 34" joints	8/26/2020	18th Pass	220 (117)
12 Pre-casting 36" joints	8/26/2020	19th Pass	220 (117)
12 Pre-casting 38" joints	8/26/2020	20th Pass	220 (117)
12 Pre-casting 40" joints	8/26/2020	21st Pass	220 (117)
12 Pre-casting 42" joints	8/26/2020	22nd Pass	220 (117)
12 Pre-casting 44" joints	8/26/2020	23rd Pass	220 (117)
12 Pre-casting 46" joints	8/26/2020	24th Pass	220 (117)
12 Pre-casting 48" joints	8/26/2020	25th Pass	220 (117)
12 Pre-casting 50" joints	8/26/2020	26th Pass	220 (117)
12 Pre-casting 52" joints	8/26/2020	27th Pass	220 (117)
12 Pre-casting 54" joints	8/26/2020	28th Pass	220 (117)
12 Pre-casting 56" joints	8/26/2020	29th Pass	220 (117)
12 Pre-casting 58" joints	8/26/2020	30th Pass	220 (117)
12 Pre-casting 60" joints	8/26/2020	31st Pass	220 (117)
12 Pre-casting 62" joints	8/26/2020	32nd Pass	220 (117)
12 Pre-casting 64" joints	8/26/2020	33rd Pass	220 (117)
12 Pre-casting 66" joints	8/26/2020	34th Pass	220 (117)
12 Pre-casting 68" joints	8/26/2020	35th Pass	220 (117)
12 Pre-casting 70" joints	8/26/2020	36th Pass	220 (117)
12 Pre-casting 72" joints	8/26/2020	37th Pass	220 (117)
12 Pre-casting 74" joints	8/26/2020	38th Pass	220 (117)
12 Pre-casting 76" joints	8/26/2020	39th Pass	220 (117)
12 Pre-casting 78" joints	8/26/2020	40th Pass	220 (117)
12 Pre-casting 80" joints	8/26/2020	41st Pass	220 (117)
12 Pre-casting 82" joints	8/26/2020	42nd Pass	220 (117)
12 Pre-casting 84" joints	8/26/2020	43rd Pass	220 (117)
12 Pre-casting 86" joints	8/26/2020	44th Pass	220 (117)
12 Pre-casting 88" joints	8/26/2020	45th Pass	220 (117)
12 Pre-casting 90" joints	8/26/2020	46th Pass	220 (117)
12 Pre-casting 92" joints	8/26/2020	47th Pass	220 (117)
12 Pre-casting 94" joints	8/26/2020	48th Pass	220 (117)
12 Pre-casting 96" joints	8/26/2020	49th Pass	220 (117)
12 Pre-casting 98" joints	8/26/2020	50th Pass	220 (117)
12 Pre-casting 100" joints	8/26/2020	51st Pass	220 (117)
12 Pre-casting 102" joints	8/26/2020	52nd Pass	220 (117)
12 Pre-casting 104" joints	8/26/2020	53rd Pass	220 (117)
12 Pre-casting 106" joints	8/26/2020	54th Pass	220 (117)
12 Pre-casting 108" joints	8/26/2020	55th Pass	220 (117)
12 Pre-casting 110" joints	8/26/2020	56th Pass	220 (117)
12 Pre-casting 112" joints	8/26/2020	57th Pass	220 (117)
12 Pre-casting 114" joints	8/26/2020	58th Pass	220 (117)
12 Pre-casting 116" joints	8/26/2020	59th Pass	220 (117)
12 Pre-casting 118" joints	8/26/2020	60th Pass	220 (117)
12 Pre-casting 120" joints	8/26/2020	61st Pass	220 (117)
12 Pre-casting 122" joints	8/26/2020	62nd Pass	220 (117)
12 Pre-casting 124" joints	8/26/2020	63rd Pass	220 (117)
12 Pre-casting 126" joints	8/26/2020	64th Pass	220 (117)
12 Pre-casting 128" joints	8/26/2020	65th Pass	220 (117)
12 Pre-casting 130" joints	8/26/2020	66th Pass	220 (117)
12 Pre-casting 132" joints	8/26/2020	67th Pass	220 (117)
12 Pre-casting 134" joints	8/26/2020	68th Pass	220 (117)
12 Pre-casting 136" joints	8/26/2020	69th Pass	220 (117)
12 Pre-casting 138" joints	8/26/2020	70th Pass	220 (117)
12 Pre-casting 140" joints	8/26/2020	71st Pass	220 (117)
12 Pre-casting 142" joints	8/26/2020	72nd Pass	220 (117)
12 Pre-casting 144" joints	8/26/2020	73rd Pass	220 (117)
12 Pre-casting 146" joints	8/26/2020	74th Pass	220 (117)
12 Pre-casting 148" joints	8/26/2020	75th Pass	220 (117)
12 Pre-casting 150" joints	8/26/2020	76th Pass	220 (117)
12 Pre-casting 152" joints	8/26/2020	77th Pass	220 (117)
12 Pre-casting 154" joints	8/26/2020	78th Pass	220 (117)
12 Pre-casting 156" joints	8/26/2020	79th Pass	220 (117)
12 Pre-casting 158" joints	8/26/2020	80th Pass	220 (117)
12 Pre-casting 160" joints	8/26/2020	81st Pass	220 (117)
12 Pre-casting 162" joints	8/26/2020	82nd Pass	220 (117)
12 Pre-casting 164" joints	8/26/2020	83rd Pass	220 (117)
12 Pre-casting 166" joints	8/26/2020	84th Pass	220 (117)
12 Pre-casting 168" joints	8/26/2020	85th Pass	220 (117)
12 Pre-casting 170" joints	8/26/2020	86th Pass	220 (117)
12 Pre-casting 172" joints	8/26/2020	87th Pass	220 (117)
12 Pre-casting 174" joints	8/26/2020	88th Pass	220 (117)
12 Pre-casting 176" joints	8/26/2020	89th Pass	220 (117)
12 Pre-casting 178" joints	8/26/2020	90th Pass	220 (117)
12 Pre-casting 180" joints	8/26/2020	91st Pass	220 (117)
12 Pre-casting 182" joints	8/26/2020	92nd Pass	220 (117)
12 Pre-casting 184" joints	8/26/2020	93rd Pass	220 (117)
12 Pre-casting 186" joints	8/26/2020	94th Pass	220 (117)
12 Pre-casting 188" joints	8/26/2020	95th Pass	220 (117)
12 Pre-casting 190" joints	8/26/2020	96th Pass	220 (117)
12 Pre-casting 192" joints	8/26/2020	97th Pass	220 (117)
12 Pre-casting 194" joints	8/26/2020	98th Pass	220 (117)
12 Pre-casting 196" joints	8/26/2020	99th Pass	220 (117)
12 Pre-casting 198" joints	8/26/2020	100th Pass	220 (117)
12 Pre-casting 200" joints	8/26/2020	101st Pass	220 (117)
12 Pre-casting 202" joints	8/26/2020	102nd Pass	220 (117)
12 Pre-casting 204" joints	8/26/2020	103rd Pass	220 (117)
12 Pre-casting 206" joints	8/26/2020	104th Pass	220 (117)
12 Pre-casting 208" joints	8/26/2020	105th Pass	220 (117)
12 Pre-casting 210" joints	8/26/2020	106th Pass	220 (117)
12 Pre-casting 212" joints	8/26/2020	107th Pass	220 (117)
12 Pre-casting 214" joints	8/26/2020	108th Pass	220 (117)
12 Pre-casting 216" joints	8/26/2020	109th Pass	220 (117)
12 Pre-casting 218" joints	8/26/2020	110th Pass	220 (117)
12 Pre-casting 220" joints	8/26/2020	111th Pass	220 (117)
12 Pre-casting 222" joints	8/26/2020	112th Pass	220 (117)
12 Pre-casting 224" joints	8/26/2020	113th Pass	220 (117)
12 Pre-casting 226" joints	8/26/2020	114th Pass	220 (117)
12 Pre-casting 228" joints	8/26/2020	115th Pass	220 (117)
12 Pre-casting 230" joints	8/26/2020	116th Pass	220 (117)
12 Pre-casting 232" joints	8/26/2020	117th Pass	220 (117)
12 Pre-casting 234" joints	8/26/2020	118th Pass	220 (117)
12 Pre-casting 236" joints	8/26/2020	119th Pass	220 (117)
12 Pre-casting 238" joints	8/26/2020	120th Pass	220 (117)
12 Pre-casting 240" joints	8/26/2020	121st Pass	220 (117)
12 Pre-casting 242" joints	8/26/2020	122nd Pass	220 (117)
12 Pre-casting 244" joints	8/26/2020	123rd Pass	220 (117)
12 Pre-casting 246" joints	8/26/2020	124th Pass	220 (117)
12 Pre-casting 248" joints	8/26/2020	125th Pass	220 (117)
12 Pre-casting 250" joints	8/26/2020	126th Pass	220 (117)
12 Pre-casting 252" joints	8/26/2020	127th Pass	220 (117)
12 Pre-casting 254" joints	8/26/2020	128th Pass	220 (117)
12 Pre-casting 256" joints	8/26/2020	129th Pass	220 (117)
12 Pre-casting 258" joints	8/26/2020	130th Pass	220 (117)
12 Pre-casting 260" joints	8/26/2020	131st Pass	220 (117)
12 Pre-casting 262" joints	8/26/2020	132nd Pass	220 (117)
12 Pre-casting 264" joints	8/26/2020	133rd Pass	220 (117)
12 Pre-casting 266" joints	8/26/2020	134th Pass	220 (117)
12 Pre-casting 268" joints	8/26/2020	135th Pass	220 (117)
12 Pre-casting 270" joints	8/26/2020	136th Pass	220 (117)
12 Pre-casting 272" joints	8/26/2020	137th Pass	220 (117)
12 Pre-casting 274" joints	8/26/2020	138th Pass	220 (117)
12 Pre-casting 276" joints	8/26/2020	139th Pass	220 (117)
12 Pre-casting 278" joints	8/26/2020	140th Pass	220 (117)
12 Pre-casting 280" joints	8/26/2020	141st Pass	220 (117)
12 Pre-casting 282" joints	8/26/2020	142nd Pass	220 (117)
12 Pre-casting 284" joints	8/26/2020	143rd Pass	220 (117)
12 Pre-casting 286" joints	8/26/2020	144th Pass	220 (117)
12 Pre-casting 288" joints	8/26/2020	145th Pass	220 (117)
12 Pre-casting 290" joints	8/26/2020	146th Pass	220 (117)
12 Pre-casting 292" joints	8/26/2020	147th Pass	220 (117)
12 Pre-casting 294" joints	8/26/2020	148th Pass	220 (117)
12 Pre-casting 296" joints	8/26/2020	149th Pass	220 (117)
12 Pre-casting 298" joints	8/26/2020	150th Pass	220 (117)
12 Pre-casting 300" joints	8/26/2020	151st Pass	220 (117)
12 Pre-casting 302" joints	8/26/2020	152nd Pass	220 (117)
12 Pre-casting 304" joints	8/26/2020	153rd Pass	220 (117)
12 Pre-casting 306" joints	8/26/2020	154th Pass	220 (117)
12 Pre-casting 308" joints	8/26/2020	155th Pass	220 (117)
12 Pre-casting 310" joints	8/26/2020	156th Pass	220 (117)
12 Pre-casting 312" joints	8/26/2020	157th Pass	220 (117)
12 Pre-casting 314" joints	8/26/2020	158th Pass	220 (117)
12 Pre-casting 316" joints	8/26/2020	159th Pass	220 (117)
12 Pre-casting 318" joints	8/26/2020	160th Pass	220 (117)
12 Pre-casting 320" joints	8/26/2020	161st Pass	220 (117)
12 Pre-casting 322" joints	8/26/2020	162nd Pass	220 (117)
12 Pre-casting 324" joints	8/26/2020	163rd Pass	220 (117)
12 Pre-casting 326" joints	8/26/2020	164th Pass	220 (117)
12 Pre-casting 328" joints	8/26/2020	165th Pass	220 (117)
12 Pre-casting 330" joints	8/26/2020	166th Pass	220 (117)
12 Pre-casting 332" joints	8/26/2020	167th Pass	220 (117)
12 Pre-casting 334" joints	8/26/2020	168th Pass	220 (117)
12 Pre-casting 336" joints	8/26/2020	169th Pass	220 (117)
12 Pre-casting 338" joints	8/26/2020	170th Pass	220 (117)
12 Pre-casting 340" joints	8/26/2020	171st Pass	220 (117)
12 Pre-casting 342" joints	8/26/2020	172nd Pass	220 (117)
12 Pre-casting 344" joints	8/26/2020	173rd Pass	220 (117)
12 Pre-casting 346" joints	8/26/2020	174th Pass	220 (117)
12 Pre-casting 348" joints	8/26/2020	175th Pass	220 (117)
12 Pre-casting 350" joints	8/26/2020	176th Pass	220 (117)
12 Pre-casting 352" joints	8/26/2020	177th Pass	220 (117)
12 Pre-casting 354" joints	8/26/2020	178th Pass	220 (117)
12 Pre-casting 356" joints	8/26/2020	179th Pass	220 (117)
12 Pre-casting 358" joints	8/26/2020	180th Pass	220 (117)
12 Pre-casting 360" joints	8/26/2020	181st Pass	220 (117)
12 Pre-casting 362" joints	8/26/2020	182nd Pass	220 (117)
12 Pre-casting 364" joints	8/26/2020	183rd Pass	220 (117)
12 Pre-casting 366" joints	8/26/2020	184th Pass	220 (117)
12 Pre-casting 368" joints	8/26/2020	185th Pass	220 (117)
12 Pre-casting 370" joints	8/26/2020	186th Pass	220 (117)
12 Pre-casting 372" joints	8/26/2020	187th Pass	220 (117)
12 Pre-casting 374" joints	8/26/2020	188th Pass	220 (117)
12 Pre-casting 376" joints	8/26/2020	189th Pass	220 (117)
12 Pre-casting 378" joints	8/26/2020	190th Pass	220 (117)
12 Pre-casting 380" joints	8/26/2020	191st Pass	220 (117)
12 Pre-casting 382" joints	8/26/2020	192nd Pass	220 (117)
12 Pre-casting 384" joints	8/26/2020	193rd Pass	220 (117)
12 Pre-casting 386" joints	8/26/2020	194th Pass	220 (117)
12 Pre-casting 388" joints	8/26/2020	195th Pass	220 (117)
12 Pre-casting 390" joints	8/26/2020	196th Pass	220 (117)
12 Pre-casting 392" joints	8/26/2020	197th Pass	220 (117)
12 Pre-casting 394" joints	8/26/2020	198th Pass	220 (117)
12 Pre-casting 396" joints	8/26/2020	199th Pass	220 (117)
12 Pre-casting 398" joints	8/26/2020	200th Pass	220 (117)
12 Pre-casting 400" joints	8/26/2020	201st Pass	220 (117)
12 Pre-casting 402" joints	8/26/2020	202nd Pass	220 (117)
12 Pre-casting 404" joints	8/26/2020	203rd Pass	220 (117)
12 Pre-casting 406" joints	8/26/2020	204th Pass	220 (117)
12 Pre-casting 408" joints	8/26/2020	205th Pass	220 (117)
12 Pre-casting 410" joints	8/26/2020	206th Pass	220 (117)
12 Pre-casting 412" joints	8/26/2020	207th Pass	220 (117)
12 Pre-casting 414" joints	8/26/2020	208th Pass	220 (117)
12 Pre-casting 416" joints	8/26/2020	209th Pass	220 (117)
12 Pre-casting 418" joints	8/26/2020	210th Pass	220 (117)
12 Pre-casting 420" joints	8/26/2020	211st Pass	220 (117)
12 Pre-casting 422" joints	8/26/2020	212nd Pass	220 (117)
12 Pre-casting 424" joints	8/26/2020	213th Pass	220 (117)
12 Pre-casting 426" joints	8/26/2020	214th Pass	220 (117)
12 Pre-casting 428" joints	8/26/2020	215th Pass	220 (117)
12 Pre-casting 430" joints	8/26/2020	216th Pass	220 (117)
12 Pre-casting 432" joints	8/26/2020	217th Pass	220 (117)
12 Pre-casting 434" joints	8/26/2020	218th Pass	220 (117)
12 Pre-casting 436" joints	8/26/2020	219th Pass	220 (117)
12 Pre-casting 438" joints	8/26/2020	220th Pass	220 (117)
12 Pre-casting 440" joints	8/26/2020	221st Pass	220 (117)
12 Pre-casting 442" joints	8/26/2020	222nd Pass	220 (117)
12 Pre-casting 444" joints	8/26/2020	223rd Pass	220 (117)
12 Pre-casting 446" joints	8/2		



Sheet:	1 of 1
Customer:	Schacke Bldg
Job Name:	POS-1757
City, State:	Turner, Iowa
Job #	616
Scale	1/4" = 1'



RADIANT FLOOR HEAT - BASEMENT				
LOOP #	PEX SIZE	LENGTH	SPACING	LENGTH AS BUILT
1	3/4"	400'	8"12"	
2	3/4"	300'	12"	
3	3/4"	330'	8"12"	
4	1/2"	250'	8"12"	
5	1/2"	278'	8"12"	
6	1/2"	280'	12"	
7	1/2"	200'	8"12"	
8	1/2"	190'	8"12"	



2336 BELL AVENUE
DES MOINES, IA 50321
TEL: (515) 288-3211
FAX: (515) 288-3217

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

PROJECT: SCHAACK RESIDENCE BASEMENT FLOOR HEAT

DRAWN BY: JP

DATE: 8-25-10

LEGEND

— SUPPLY
- - - RETURN

NOTES

1. PIPE SHALL BE KEPT 6" FROM ALL WALLS AND FLOOR DRAINS, UNLESS SPECIFIED.
2. PIPE SHALL BE REHAU RAUPEX WITH O₂ BARRIER.
3. SYSTEM SHALL BE PRESSURE TESTED TO A MINIMUM OF 80 PSI FOR A MINIMUM DURATION OF 2 HOURS.

4. THE INSTALLING CONTRACTOR SHALL RECORD ACTUAL INSTALLED CIRCUIT LENGTHS FOR BALANCING PURPOSES.
5. THIS DRAWING SHALL ACT AS AN INSTALLATION GUIDE FOR LAYOUT PURPOSES ONLY.
6. CONSULT THE REHAU "RAUPEX RADIANT FLOOR HEATING SYSTEMS INSTALLATION GUIDE" FOR COMPLETE INSTALLATION GUIDELINES.
7. ZONE DIMENSIONS ARE DEFINED ON THE CONTRACT DRAWINGS.