

COMMERCIAL

2005 PPRBC

Resubmittals: 1st 3/31/11 2nd \_\_\_\_\_ 3rd \_\_\_\_\_

Address: 3805 WALKER RD, COLORADO SPRINGS

Parcel: 6115000604

Plan Track #: 59378

Received: 18-Feb-2011

(JAN)

Description:

INTERIOR REMODEL (CHANGE OF OCC)

Required RBD Departments (6)

Contractor: COPPER VALLEY BUILDERS, INC

Permit # H78604 Zone \_\_\_\_\_ City/County \_\_\_\_\_

APPROVED FOR CONSTRUCTION

Date 5/9/11 By [Signature]

Plan-check Fee: \$130.00 (960236)

Code 2003 IFBC

Occupancy Class R-1

Type of Construction V-B

Floor or # of stories 2 + Bsmr

Square-Foot/Floor 2786 sq scope

Occupancy Load 14 scope

Fire Sprinkled for:

( ) Area ( ) Height ( ) Bsmr  
( ) 1-Hr Sub ( ) Occ/Use ( ) Other  N/A

Mixed Use: ( ) Acc.  Separate ( ) N/Separate  
( ) N/A ( ) Combined

Fire Wall ( ) Yes  No Largest Area \_\_\_\_\_

Horizontal Assembly:  Structure ( ) Drop Clg

Alt. Fire Hazm/HP EXISTING

Fire: \_\_\_\_\_

Enumeration

App Dis N/A By

Floodplain

Construction

Electrical

Mechanical

Plumbing

| | | | | AV 3-4-11  
| | | | |  | AV 3-4-11 (285F)  
 |  | | | | | 4/1/11-AJE REVIEW STOPPED 2/22/11-AJE / 3/4/11-AJE NO WALK  
 |  | | | | | SLE 4/5/11 SLE 2/25/11  
 |  | | | | | DA 4-13-11 KUK 2-25-11 KUK 4-1-11  
 |  | | | | | TC 4-1-11 TC 2-23-11 TC 4-13-11

Required Outside Departments (5)

County Zoning

County Fire

Hazmat

| | | | | 4-13-2011  
 | | | | | CK 4/2/11  
| | | | |  | CK 4/2/11  
| | | | | \_\_\_\_\_  
| | | | | \_\_\_\_\_

Release of this plan does not preclude compliance with all applicable codes, ordinances and other pertinent regulations.

Health Dep. | | | | |  my m 4/7/11  
Septic Tank and well water

Released for Permit  
AUG 16 2011  
AJE  
RBD Construction

SPLICE to Permit H78604 Plan 59378

- Construction
- Mechanical
- Plumbing
- Electrical
- Fire



COMPLETE PLAN STICKER

2004  
ACCESSIBLE SLEEPING UNIT  
3068 ENTRY DOOR  
3068 BATHROOM DOOR  
GRAB BARS AT TOILET  
AND IN SHOWER

SECOND LEVEL FLOOR PLAN

1/16"

B 253 S.F.  
R-1 1874 S.F.

2004  
1 HR. SEPERATION  
B TO R-1  
90 MIN. DOOR AT HALL  
60 MIN. DOOR AT KITCHEN  
AND UNDERSIDE OF STAIRS

(F) TYPICAL

2004  
SEPERATION AT CEILING  
B MAIN LEVEL TO R-1  
ON SECOND LEVEL

2 HR. SEPERATION  
WITH 90 MIN. DOOR,  
AT MAIN LEVEL

A-3

2004  
1 HR. SEPERATION  
B TO R-1  
60 MIN. DOOR  
(AT LOWER LEVEL)

A-3 1228 S.F.  
B 3211 S.F.  
R-1 5691 S.F.

MAIN LEVEL FLOOR PLAN

1/16"

2004  
1 HR. SEPERATION  
B TO R-1  
60 MIN. DOOR  
(AT LOWER LEVEL)

B 2856 S.F.  
R-1 3739 S.F.

2004  
SEPERATION AT CEILING  
R-3 MAIN LEVEL TO R-1  
ON LOWER LEVEL

LOWER LEVEL (BASEMENT) FLOOR PLAN

1/16"

BUILDING INFORMATION

2003 IBC, 2003 IBC (AS NOTED)  
TWO STORY STRUCTURE WITH BASEMENT  
CONSTRUCTION TYPE VB  
NON SPRINKLERED  
COMBINED OCCUPANCY OF A-3, B AND R-1  
MAIN LEVEL 9542 S.F.  
ADDED AREA ON MAIN LEVEL 588 S.F.  
TOTAL BUILDING AREA (FOOT PRINT) 10130 S.F.

(2003 IBC)  
SEC 302.3.2 SEPERATED USES, SUM OF RATIOS  
EQUATION 5-2 (FRONTAGE INCREASE)

(P) = 1000  
(F) = 815  
(W) = 79  
If = 100(815/1000 - 25)29/30  
If = 100(.565)97  
If = 54.8

EQUATION 5-1 (AREA MODIFICATION)

A<sub>g</sub> = A<sub>1</sub> + (A<sub>1</sub>/100) +  
A<sub>g</sub> A-3 = 6000 (6000 X 54.8)/100 = 3288 OR 9288  
A<sub>g</sub> B = 9000 (9000 X 54.8)/100 = 4932 OR 13932  
A<sub>g</sub> R-1 = 7000 (7000 X 54.8)/100 = 3836 OR 10836

SUM OF THE RATIOS:  
(1228/9288) + (3211/13932) + (5691/10836) = S OF R  
(.13 + .23 + .52 = .88 (LESS THAN 1)

SEC. 801.2 PARTIAL CHANGE OF OCC. SEC. 812 SHALL APPLY  
SEC. 801.3 CERTIFICATE OF OCCUPANCY WILL BE REQUIRED  
SEC. 812.1.2 CHANGE OF OCC. WITH SEPERATION RE: SEC. 7  
SEC. 812.2.2 CHANGE TO HIGHER CLASS. COMPLY WITH CHAP.  
SEC. 701.2 WORK SHALL COMPLY WITH CHAP. 5 AND 6  
SEC. 506.1.8 COORD. ALARMS WITH CHAP. 9 (2003 IBC)  
SEC. 604.2.2 AUTO. SPRINKLER SYSTEM, REQ'D  
EXCEPT, LESS THAN 3 STORIES, DOES NOT  
COMPLY WITH #2 AND #3  
SEC. 604.2.2.1 MIXED USES REQUIRE MIN. 1 HR. SEPERATION  
SEC. 604.4.1.5 FIRE ALARM SYSTEM, COORD. W/ EXISTING  
SEC. 605.2 MEANS OF EGRESS SHALL COMPLY WITH IBC  
COORDINATE WITH 812.4.1 AND CHAP. 10 (2003 IBC)

SEC. 605.5.1 CORRIDOR DOORS, MIN 1 3/4"  
SOLID CORE WOOD,  
ALL DOORS TO SLEEPING ROOMS TO HAVE AUTOMATIC  
CLOSERS, ALL NEW DOORS TO BE 1 3/4" SOLID CORE  
WOOD

SEC. 605.7.1 AND LIGHTING, RE: ELEC/ LIGHTING PLAN  
SEC. 605.8.1 EXIT SIGNS, RE: ELEC/ LIGHTING PLAN

SEC. 704.2.1 MANUAL FIRE ALARM SYSTEM  
(WILL COORDINATE WITH EXISTING SYSTEM)

TABLE 812.4.1 HAZARD CATEGORY, LIFE SAFETY AND EXITS  
(RE: CHAP 10, 2003 IBC, BELOW)

TABLE 812.4.2.2 HAZARD CATEGORY, HEIGHTS AND AREAS  
(RE: EQUATIONS 5-1 AND 5-2 ABOVE, FROM  
2003 IBC)

TABLE 812.4.3.2 HAZARD CATEGORY, EXPOSURE AND EXT. WALLS  
EXISTING EXTERIOR WALLS ACCEPTED

TABLE 1004.1.2 R-1, OCCUPANCY, 1 PER 200 S.F. GROSS  
MAIN LEVEL, OCC. 14 (EXISTING)

SEC 1008.1.3.4 R-1, EGRESS HARDWARE REQUIRED

TABLE 1014.1 R-1, MORE THAN 10 OCC. 2 EXITS REQUIRED  
2 EXITS PROVIDED

TABLE 1015.1 R-1, MAX TRAVLE DISTANCE 200 FT.  
WITHOUT SPRINKLER SYSTEM

TAX SCHEDULE = 640821-6618  
6150-00-004

SCOPE OF WORK:

THE HIDEAWAY IS AN EXISTING STRUCTURE, CENTRAL AREA W/ TWO WINGS.  
IT WAS COMPLETED IN THREE PHASES 1969-2004. IN 2004 A MAJOR RENOVATION  
WAS COMPLETED, UPGRADING OCCUPANCY SEPERATION AND EGRESS REQUIREMENTS.  
INTERCONNECTED SMOKE DETECTORS WERE INSTALLED IN ALL AREAS OF THE BUILDING.  
THEY WERE DESIGNED SO THAT ALL ADJACENT DETECTORS WILL SOUND IN A WING WHEN  
ONE DETECTOR SOUNDS.

THE SCOPE OF THIS PROJECT IS AN INTERIOR RENOVATION, CONVERTING THE EXISTING  
'HIDEAWAY FOUNDERS APARTMENT' (2198 S.F. W/ R-3 OCCUPANCY)  
INTO SIX GUEST ROOMS, (INC. ADDED GARAGE AREA 588 S.F. W/ R-1 OCCUPANCY).

THE AREA IN QUESTION HAS AN INDEPENDENT HVAC SYSTEM.

THE AREA IN QUESTION HAS EXISTING ELECTRICAL AND LIGHTING FIXTURES  
TO MEET THE NEW USE REQUIREMENTS WITH ONLY MINOR RELOCATIONS.

AN ADDED SMOKE DETECTION SYSTEM WILL BE ADDED AND COORDINATED  
WITH THE EXISTING SYSTEM.

ACCESSIBLE GUEST ROOMS ARE PROVIDED IN THE MAIN AREA OF THE FACILITY.

SHEET INDEX

A0	COVER
AS	SITE PLAN
A1	EXISTING FLOOR/ DEMO PLAN
A2	EXISTING LOWER LEVEL FLOOR PLAN
A3	NEW MAIN LEVEL FLOOR PLAN
A4	SCHEMATIC ELECTRICAL/ LIGHTING PLAN
A5	FRAMING PLAN, DETAILS
M2.0	SECTIONS, DETAILS AND SCHEDULES
M2.1	MECHANICAL
P1.0	MECHANICAL
P2.0	PLUMBING
P2.1	PLUMBING
E1.0	ELECTRICAL
E1.1	ELECTRICAL
E1.2	ELECTRICAL
E2.0	ELECTRICAL
E2.1	ELECTRICAL
E2.2	ELECTRICAL

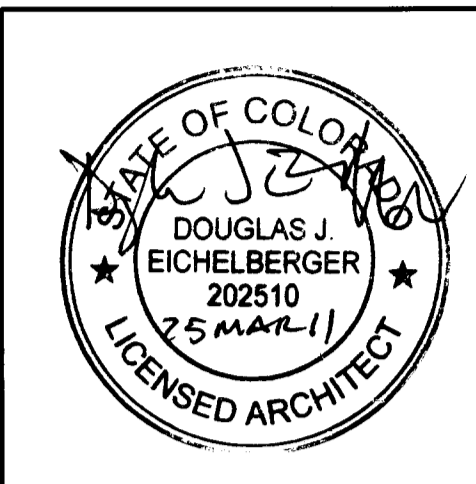
DESIGN LOADS

ROOF LOADS:  
LIVE LOAD 30 PSF  
DEAD LOAD 15 PSF  
DECK LOADS:  
EXISTING FLOOR/ DEMO PLAN  
LIVE LOAD 30 PSF  
DEAD LOAD 15 PSF  
FLOOR LOADS:  
LIVE LOAD 50 PSF  
DEAD LOAD 10 PSF  
WIND LOAD:  
100 MPH  
EXPOSURE 'C'

LEGAL DESCRIPTION:

A TRACT OF LAND LOCATED IN THE NORTHEAST 1/4 OF SECTION 15, TOWNSHIP 11 SOUTH, RANGE 66 WEST  
OF THE 6TH P.M., EL PASO COUNTY, STATE OF COLORADO.

BEGINNING AT THE NORTHEAST CORNER OF TRACT 'A' OF WALDEN III FILING 2 AS RECORDED IN PLAT BOOK K-2  
AT PAGE 46 OF THE RECORDS OF SAID EL PASO COUNTY, SAID POINT FURTHERMORE BEING A POINT ON THE  
SOUTHERLY RIGHT OF WAY LINE OF WALKER ROAD (1) THENCE SOUTH 88-10-40" EAST A DISTANCE OF 787.12 FEET,  
(2) THENCE SOUTH 01-49-19" WEST, A DISTANCE OF 468.07 FEET, (3) THENCE SOUTH 88-10-40" WEST, A DISTANCE OF  
46.80 FEET, (4) THENCE SOUTH 01-49-20" WEST A DISTANCE OF 58.93 FEET, (5) THENCE NORTH 88-10-40" WEST,  
A DISTANCE OF 66.80 FEET, (6) THENCE SOUTH 01-49-19" WEST, A DISTANCE OF 628.88 FEET TO A POINT AT THE  
NORTH LINE OF LOT 30 OF SAID WALDEN III FILING 2; (7) THENCE NORTH 89-14-43" WEST ALONG THE NORTH  
LINES OF LOTS 30, 29, 19, 18 AND 17 OF SAID WALDEN III FILING 2; (8) THENCE NORTH 00-23-56" EAST ALONG  
THE EAST LINES OF LOTS 7, 6, 2, 1 AND TRACT 'A' OF SAID WALDEN III FILING 2, A DISTANCE OF 1,169.99 FEET  
TO THE POINT OF BEGINNING, THE BASIS OF BEARING FOR THIS DESCRIPTION BEING THE EAST LINE OF TRACT 'A'  
OF SAID WALDEN III FILING 2 BEING NORTH 00-23-56" EAST AND ALL OTHER BEARINGS CONTAINED HEREIN  
BEING RELATIVE THERETO, COUNTY OF EL PASO, STATE OF COLORADO AND CONTAINING 20.18 ACRES  
MORE OR LESS.



ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-668-5211  
luckyantrich@aol.com

STRUCTURAL ENGINEER:  
ALAN STEPIENSKI, P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structural.engineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER RD.  
COLO. SPRINGS, CO.

DATE:  
REVIEW  
6 DECEMBER 2010  
13 DECEMBER 2010  
11 JANUARY 2011

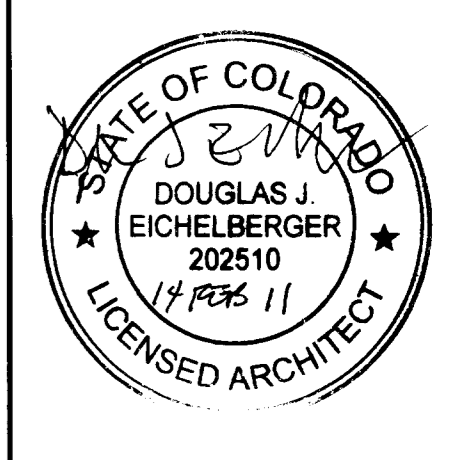
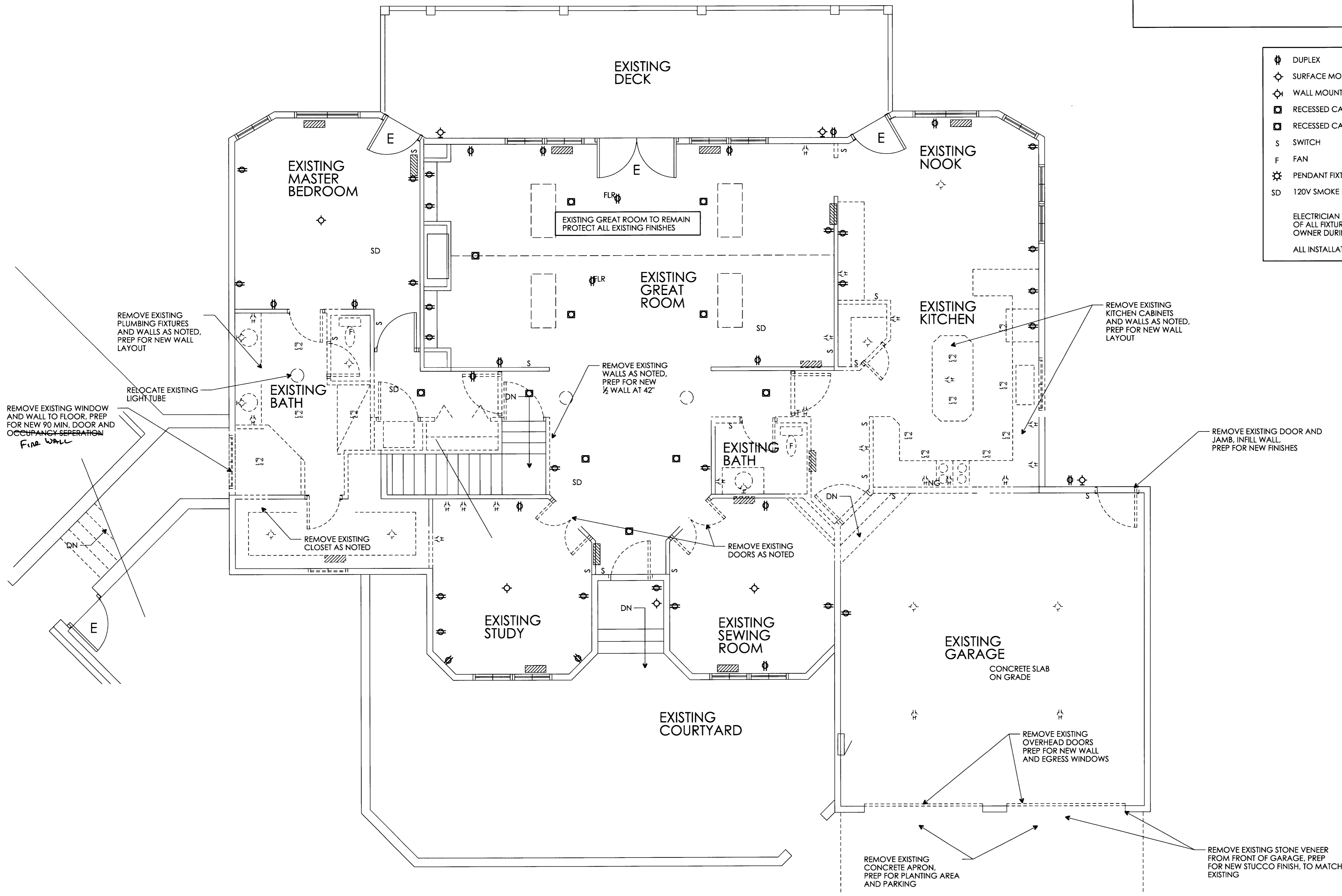
PERMIT AND  
CONSTRUCTION  
9 FEBRUARY 2011  
PPRBD  
15 MARCH 2011  
24 MARCH 2011

Released for Permit  
APR 01 2011  
A/E  
RBD Construction

SHEET:  
A0

DEMOLITION NOTES:  
 REMOVE EXISTING WALLS AS NOTED. PREP FOR NEW WALL LAYOUT.  
 REMOVE EXISTING PLUMBING FIXTURES AS NOTED. CAP FOR NEW FIXTURE LOCATION.  
 REMOVE EXISTING GYP. BD. ON WALLS THAT WILL ALIGN W/ NEW WALLS.  
 ALL AREAS HAVE EXISTING LIGHTS AND DUPLEX OUTLETS AS REQUIRED FOR NEW LAYOUT. PREP TO RELOCATE AS REQUIRED.  
 PROTECT EXISTING FINISHES TO REMAIN.

- ⊕ DUPLEX
  - ⊕ SURFACE MOUNT LIGHT
  - ⊕ WALL MOUNT LIGHT
  - ⊕ RECESSED CAN LIGHT
  - ⊕ RECESSED CAN / WALL WASHER
  - S SWITCH
  - F FAN
  - ⊕ PENDANT FIXTURE
  - SD 120V SMOKE DETECTOR
- ELECTRICIAN TO DETERMINE FINAL LOCATIONS OF ALL FIXTURES, SWITCHES AND OUTLETS WITH OWNER DURING WALK-THRU  
 ALL INSTALLATIONS TO N.E.C. REQUIREMENTS



ARCHITECT:  
 DOUGLAS J. EICHELBERGER  
 12345 SPRING VALLEY RD.  
 LAKEWOOD, CO. 80118  
 303-686-5218  
 luckyfan@eol.com

STRUCTURAL ENGINEER:  
 MOUNTAIN STATES STRUCTURAL, INC.  
 303-825-1572  
 structural.engineer@yahoo.com

THE HIDEAWAY  
 RETREAT CENTER  
 3805 WALKER ROAD  
 COLO. SPRINGS, CO.

DATE:  
 OWNER, MEP REVIEW  
 21 DECEMBER 2010  
 11 JANUARY 2011

PERMIT AND  
 CONSTRUCTION  
 14 FEBRUARY 2011

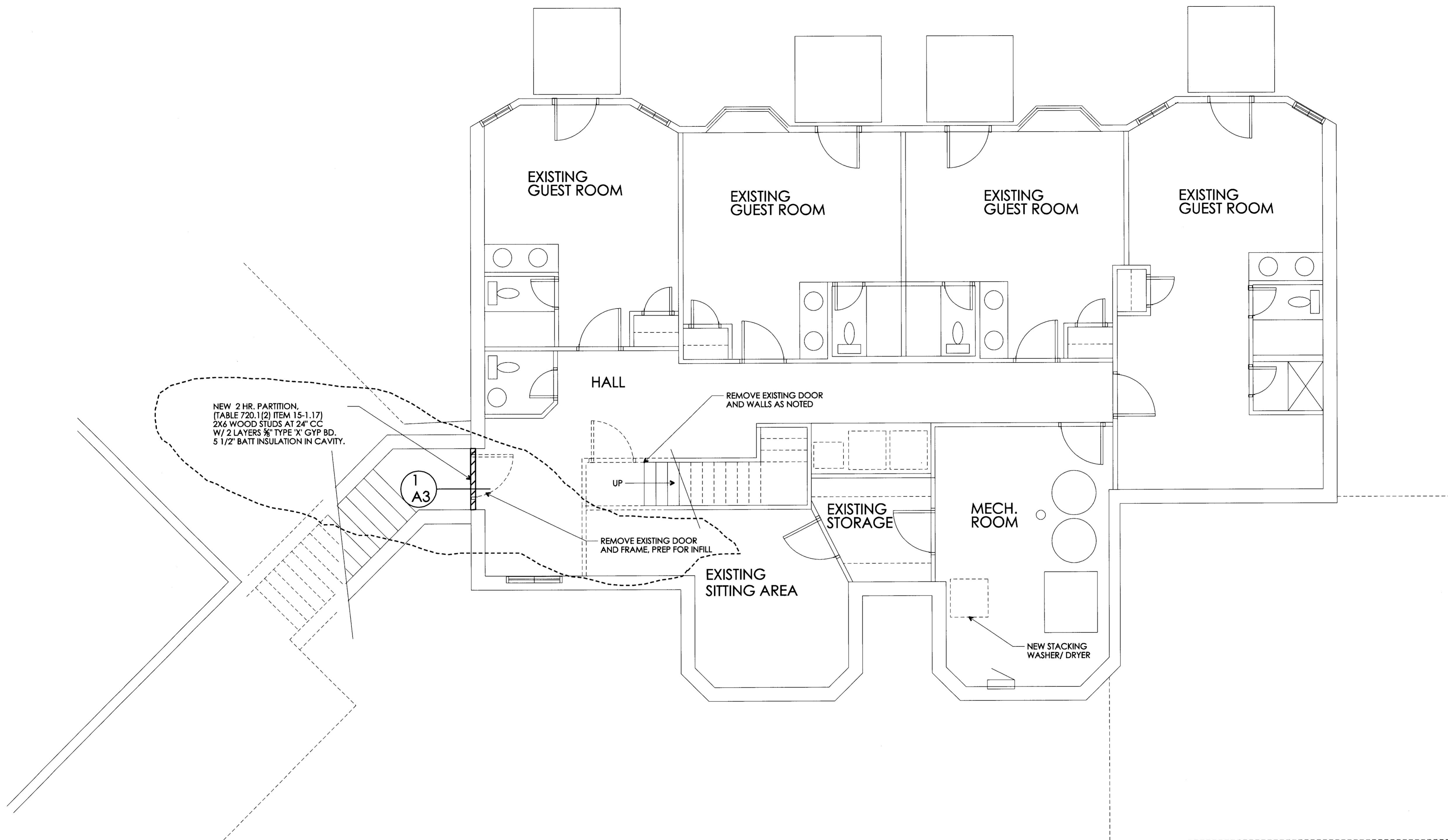
EXISTING FLOOR/ DEMO PLAN

1/4"

NORTH

Released for Permit  
 APR 01 2011  
 A/E  
 RBD Construction

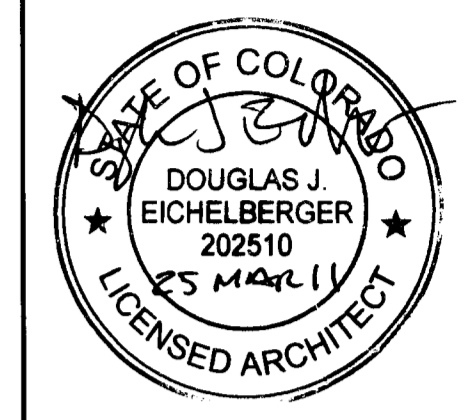
SHEET:  
 A1



LOWER FLOOR PLAN

1/4"

NORTH



ARCHITECT: EICHELBERGER  
12245 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyranch@aol.com

STRUCTURAL ENGINEER:  
ALAN STEPAŃSKI P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-625-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

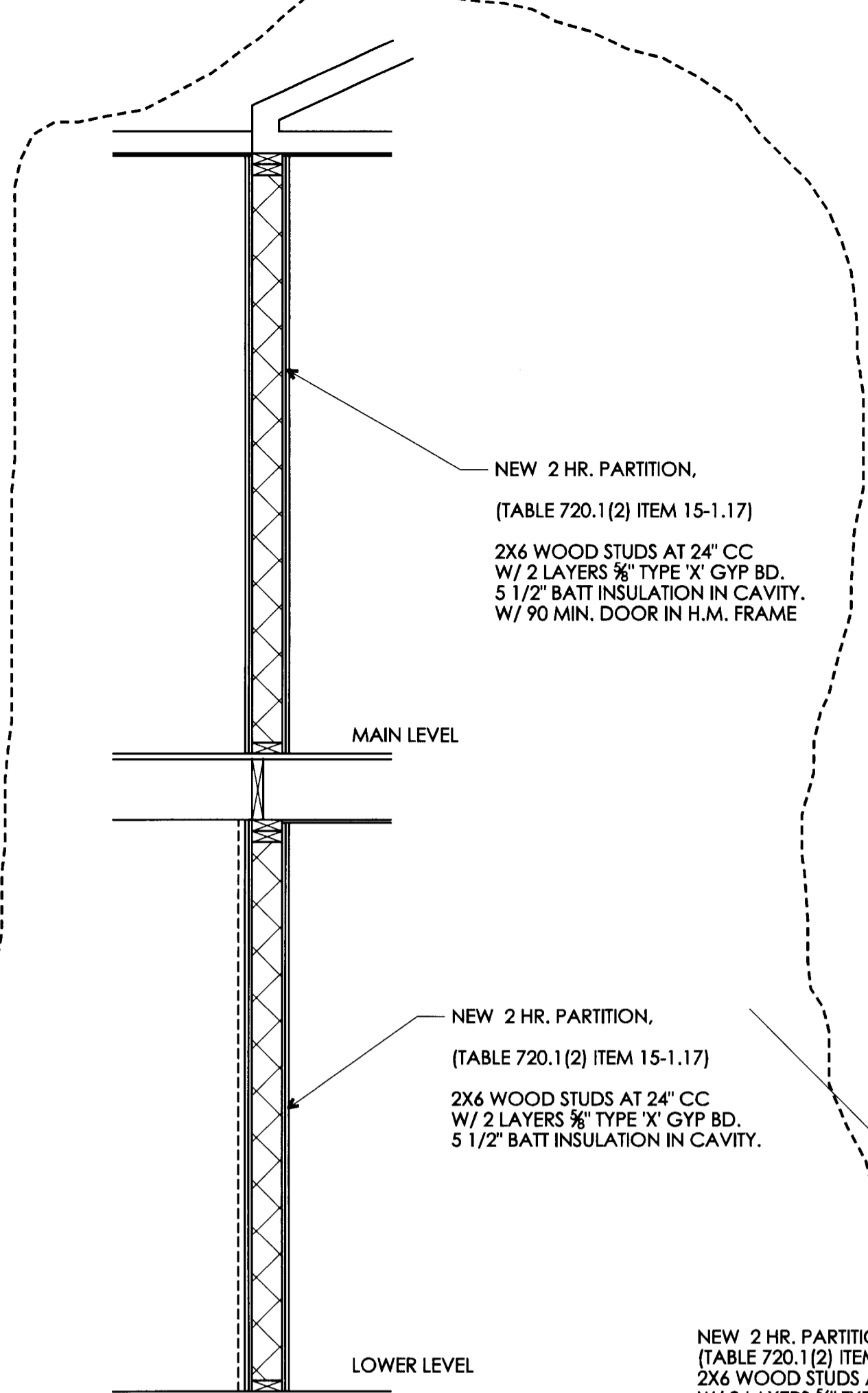
DATE:  
OWNER, MEP REVIEW  
21 DECEMBER 2010  
11 JANUARY 2011

PERMIT AND  
CONSTRUCTION  
24 FEBRUARY 2011

PPRBD  
24 MARCH 2011

Released for Permit  
APR 01 2011  
AJE  
RBD Construction

SHEET:  
A2



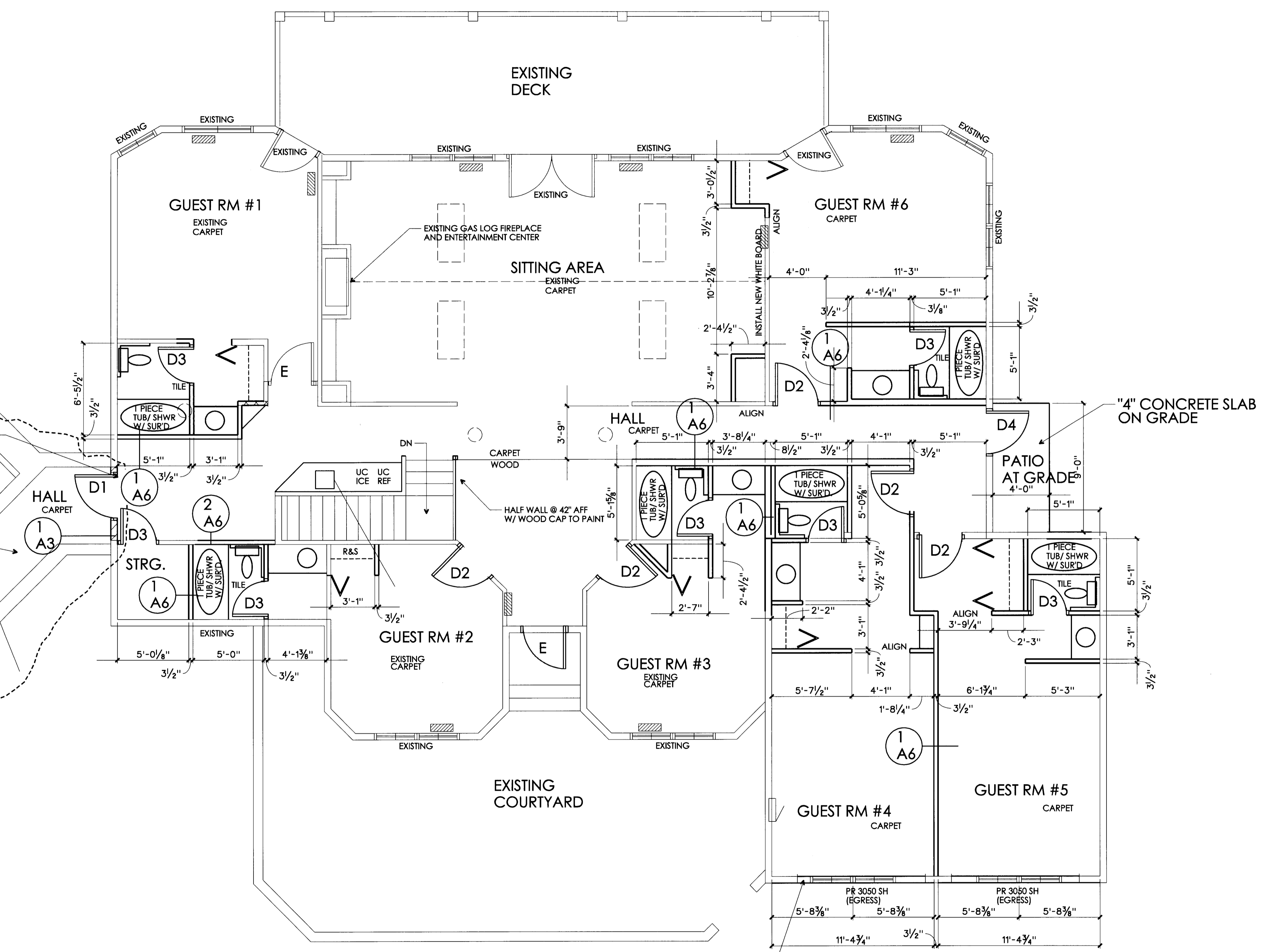
NEW 2 HR. PARTITION.  
(TABLE 720.1(2) ITEM 15-1.17)  
2X6 WOOD STUDS AT 24" CC  
W/ 2 LAYERS 5/8" TYPE 'X' GYP BD.  
5 1/2" BATT INSULATION IN CAVITY.  
W/ 90 MIN. DOOR IN H.M. FRAME

NEW 2 HR. PARTITION.  
(TABLE 720.1(2) ITEM 15-1.17)  
2X6 WOOD STUDS AT 24" CC  
W/ 2 LAYERS 5/8" TYPE 'X' GYP BD.  
5 1/2" BATT INSULATION IN CAVITY.

NEW 2 HR. PARTITION.  
(TABLE 720.1(2) ITEM 15-1.17)  
2X6 WOOD STUDS AT 24" CC  
W/ 2 LAYERS 5/8" TYPE 'X' GYP BD.  
5 1/2" BATT INSULATION IN CAVITY.  
W/ 90 MIN. DOOR IN H.M. FRAME

INFILL EXISTING STAIR OPENING.  
ALIGN NEW FLOOR WITH EXISTING

1 A3 WALL SECTION  
1/2"

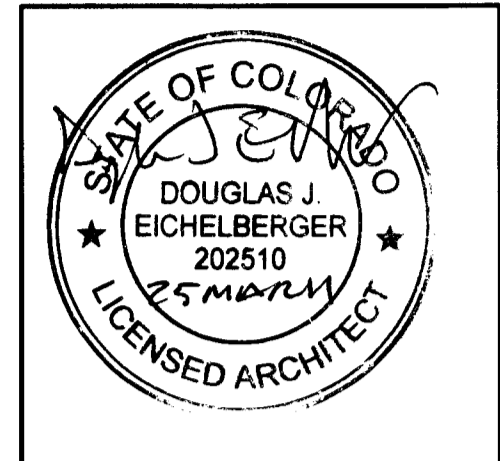


FLOOR PLAN

1/4"

INFILL WALL AT EXISTING GARAGE DOOR, 2X6 STUDS AT 16" CC W/ 5/8" GYP. BD. ON INTERIOR, 1/2" OSB SHEATHING WITH CEMENT STUCCO TO MATCH EXISTING, R-19 INSULATION.

NORTH



ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyarch@aol.com

STRUCTURAL ENGINEER:  
ALAN STEPIENSKI P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
3805 WALKER ROAD  
STRUCTURALENGINEER@YAHOO.COM

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

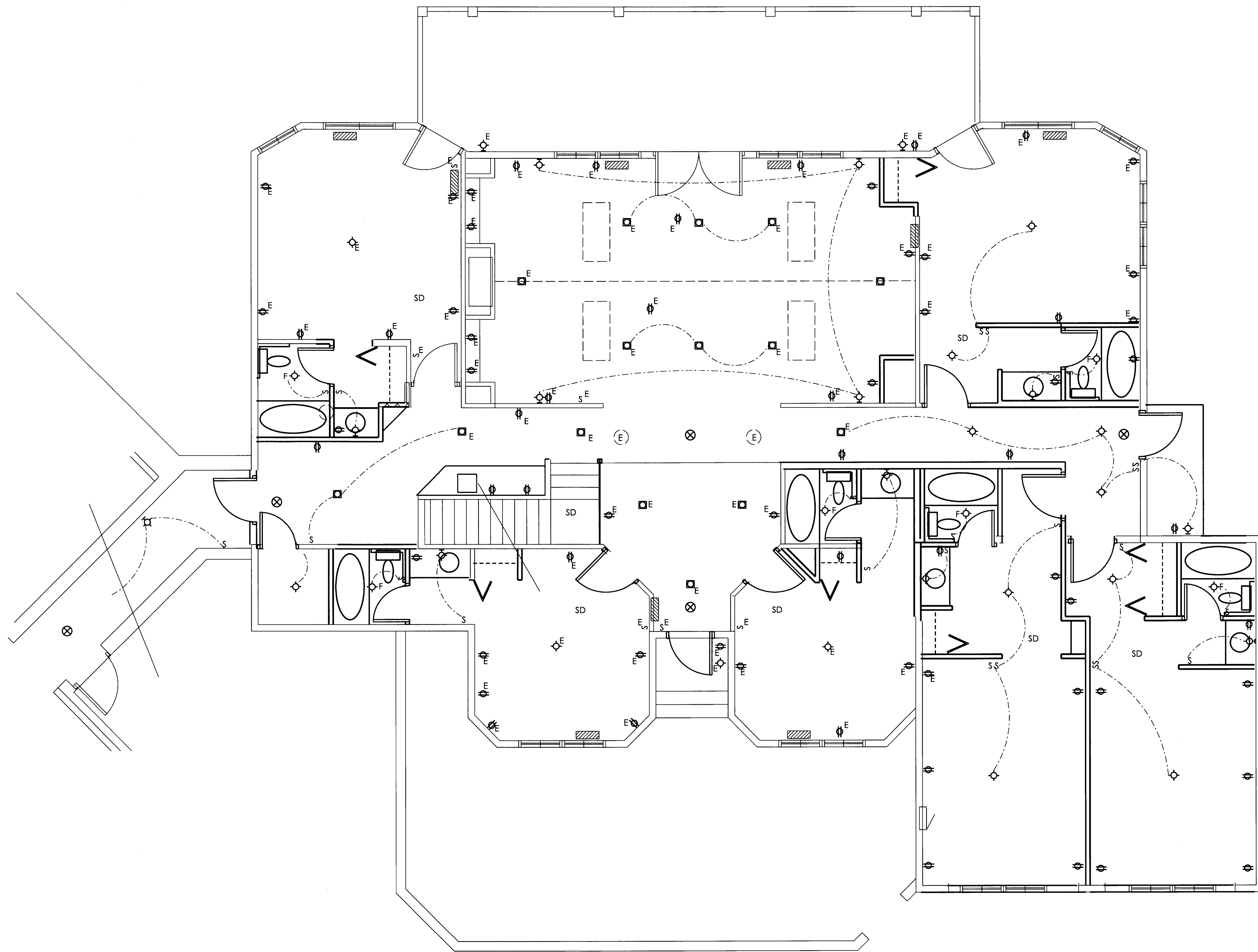
DATE:  
OWNER  
MEP REVIEW  
21 DECEMBER 2010  
11 JANUARY 2011

PERMIT AND  
CONSTRUCTION  
24 FEBRUARY 2011

PPRBD  
24 MARCH 2011

SHEET:  
A3

Released for Permit  
APR 01 2011  
AJE  
RBD Construction

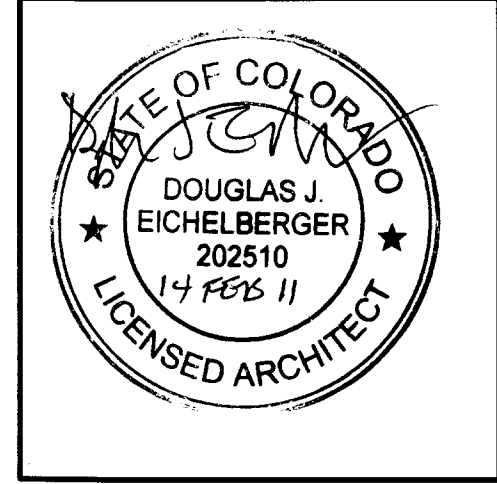


- ⊕ DUPLEX
- ◇ SURFACE MOUNT LIGHT
- ◊ WALL MOUNT LIGHT
- ◻ RECESSED CAN LIGHT
- ◻ RECESSED CAN / WALL WASHER
- S SWITCH
- F FAN
- ☼ PENDANT FIXTURE
- SD 120V SMOKE/ CO DETECTOR
- ⊗ FAN LIGHT
- ⊗ EXIT SIGN

ELECTRICIAN TO DETERMINE FINAL LOCATIONS OF ALL FIXTURES, SWITCHES AND OUTLETS WITH OWNER DURING WALK-THRU

ALL INSTALLATIONS TO N.E.C. REQUIREMENTS

PROVIDE A 15 AMP DEDICATED GFI AT EACH VANITY



ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyarch@aol.com

STRUCTURAL ENGINEER:  
ALAN STEPIENSKI P.E.  
ALCANTARA STATES STRUCTURAL, INC.  
300 SOUTH MAIN ST.  
STRUCTURALENGINEER@yahoo.com

**THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.**

DATE:  
OWNER, MEP REVIEW  
21 DECEMBER 2010  
11 JANUARY 2011

PERMIT AND CONSTRUCTION  
14 FEBRUARY 2011

**SCHEMATIC ELECTRICAL AND LIGHTING PLAN**

1/4"

Released for Permit  
APR 01 2011  
A.J.E.  
FBD Construction

SHEET:  
**A4**

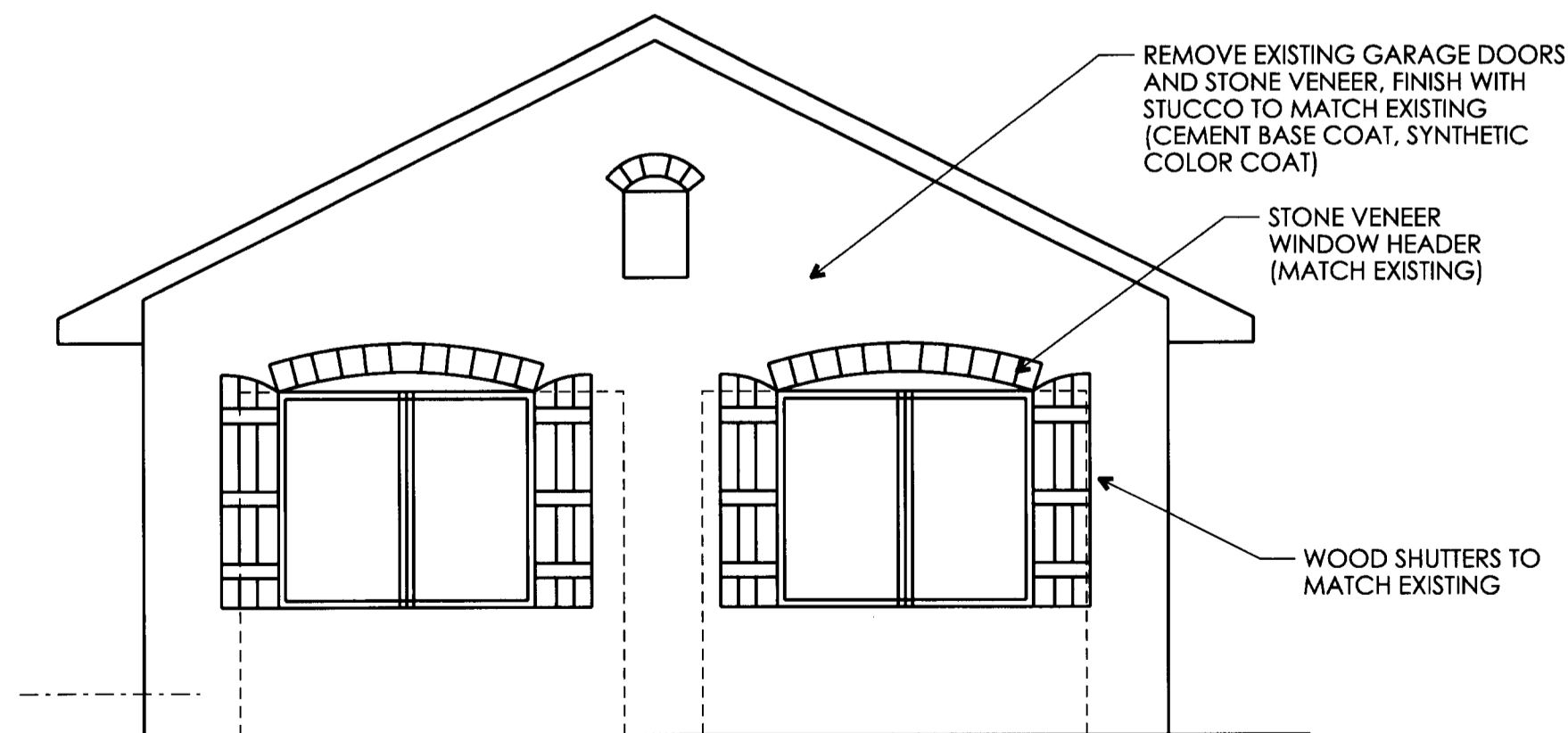
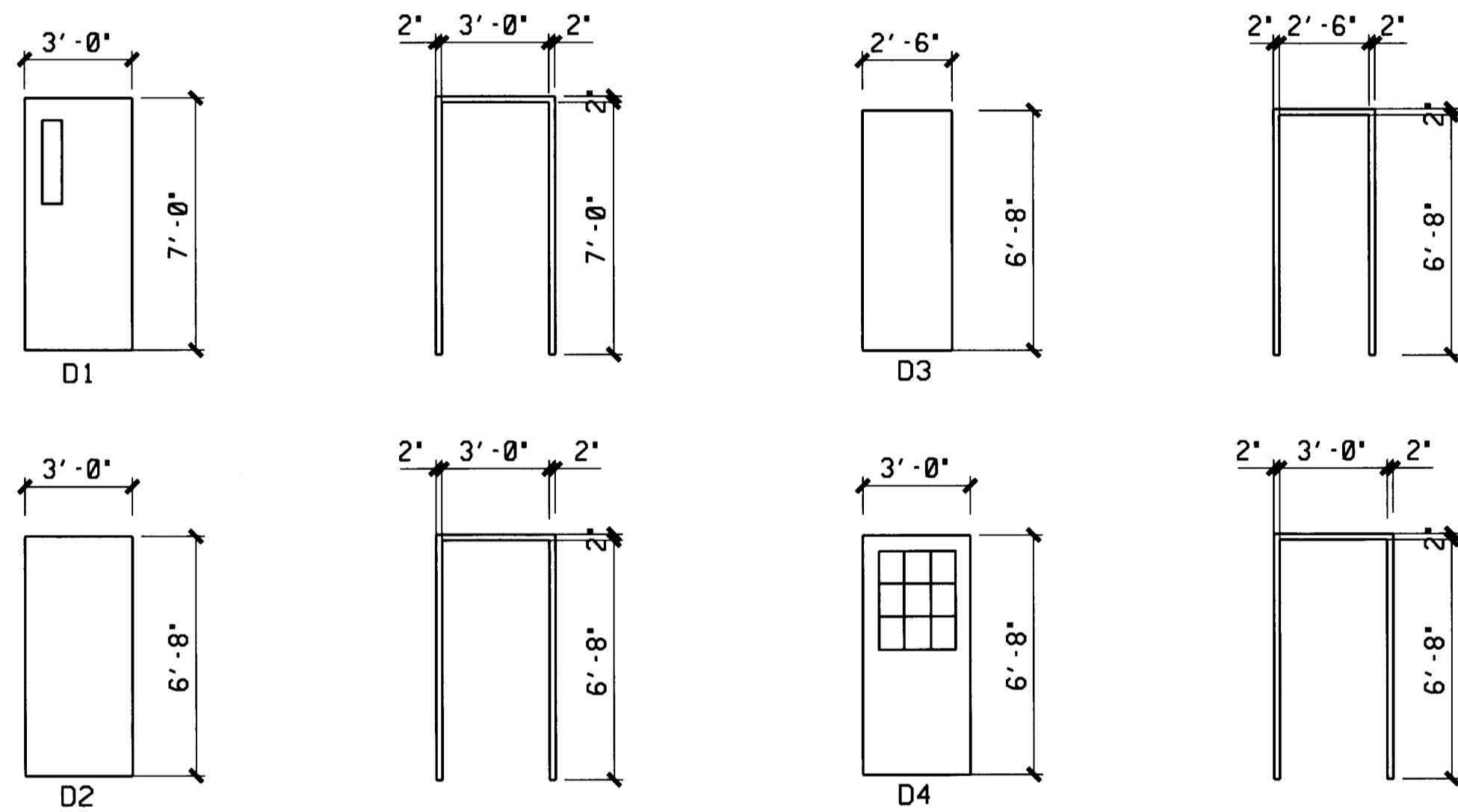


**WINDOW NOTES:**  
STANDARD CASEMENT, VINYL WINDOW, TO MEET EGRESS REQUIREMENTS  
INSTALL PER MANUF. SPEC'S. (U• .35 MAX.)

**DOOR SCHEDULE**

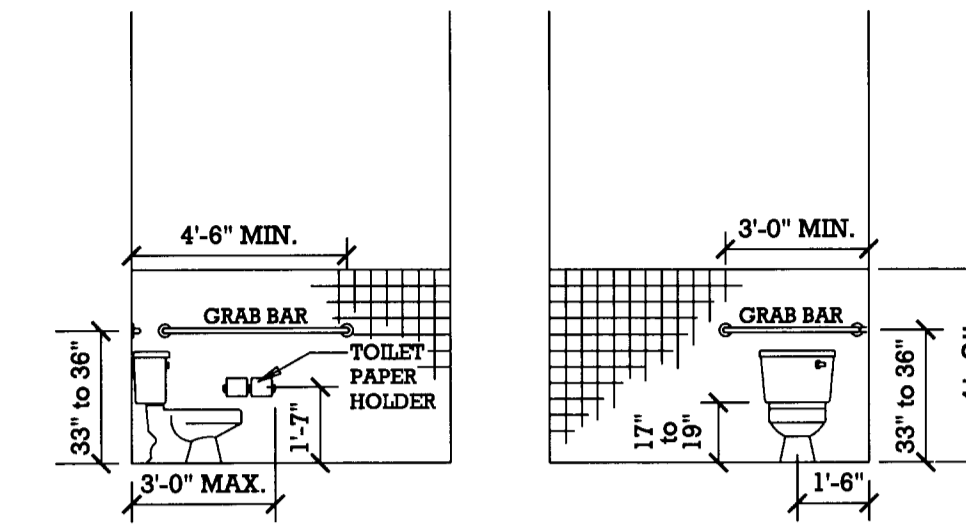
NO	SIZE	DOOR		FRAME		HARDWARE		NOTES
		MAT'L.	FIN	MAT'L.	FIN	LEVER/CLOSER/SMOKE SEAL	FIN	
D1	3/0X7/0X1 3/4	STEEL	PAINTED	HOLLOW METAL	PAINTED	LEVER/CLOSER/SMOKE SEAL	ANOD.	90 MIN
D2	3/0X6/8X1 3/4	WOOD	PAINTED	WOOD	PAINTED	LEVER/ CLOSER	ANOD.	PRE-HNG
D3	2/6X6/8X1 3/4	WOOD	PAINTED	WOOD	PAINTED	LEVER	ANOD.	PRE-HNG
D4	3/0X6/8X1 3/4	INSUL. STL.	PAINTED	WOOD	PAINTED	LEVER	ANOD.	PRE-HNG

**NOTES:**  
FLOOR OR LANDING MAY NOT BE MORE THAN 2" BELOW THRESHOLD.  
EXIT DOORS SHOULD BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.



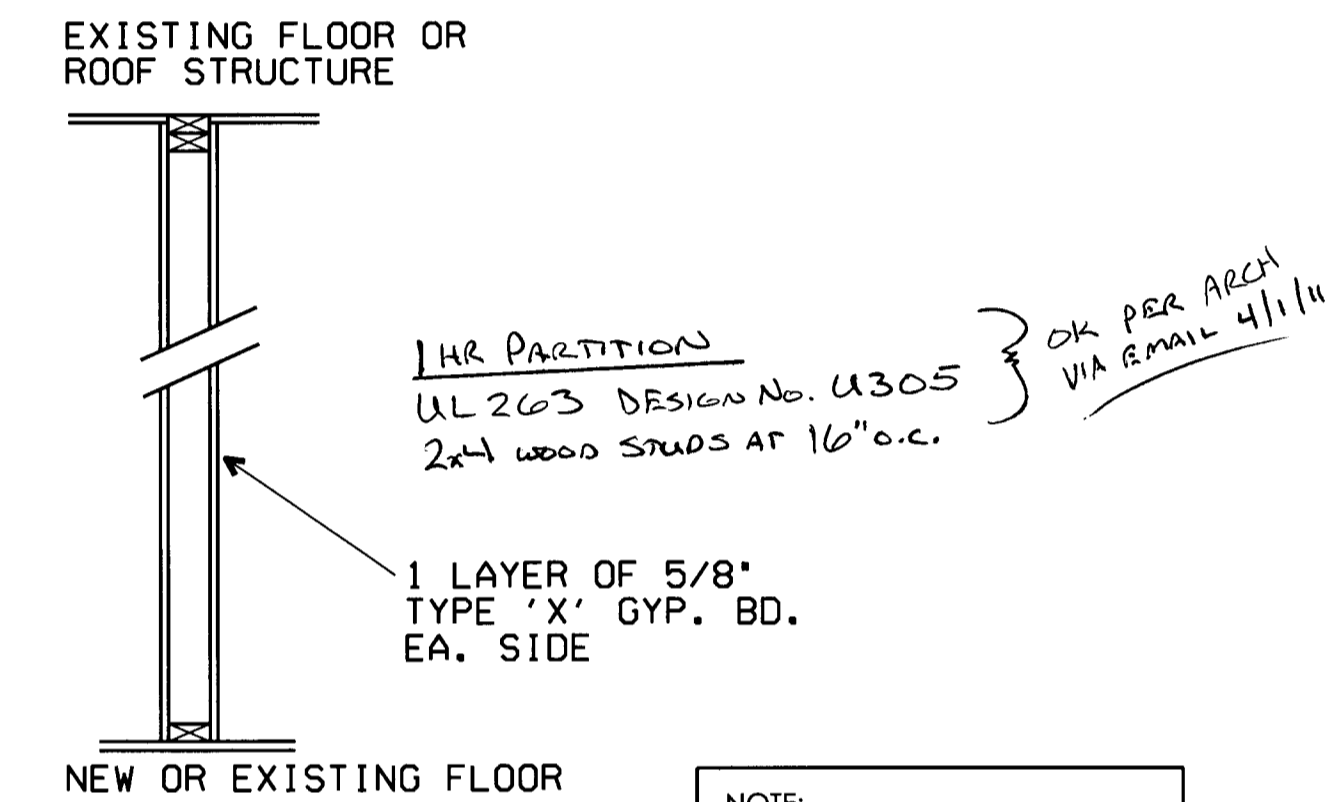
3  
A6 PARTIAL FRONT ELEVATION

1/4"



**BATH ROOM DETAILS**

1/4"

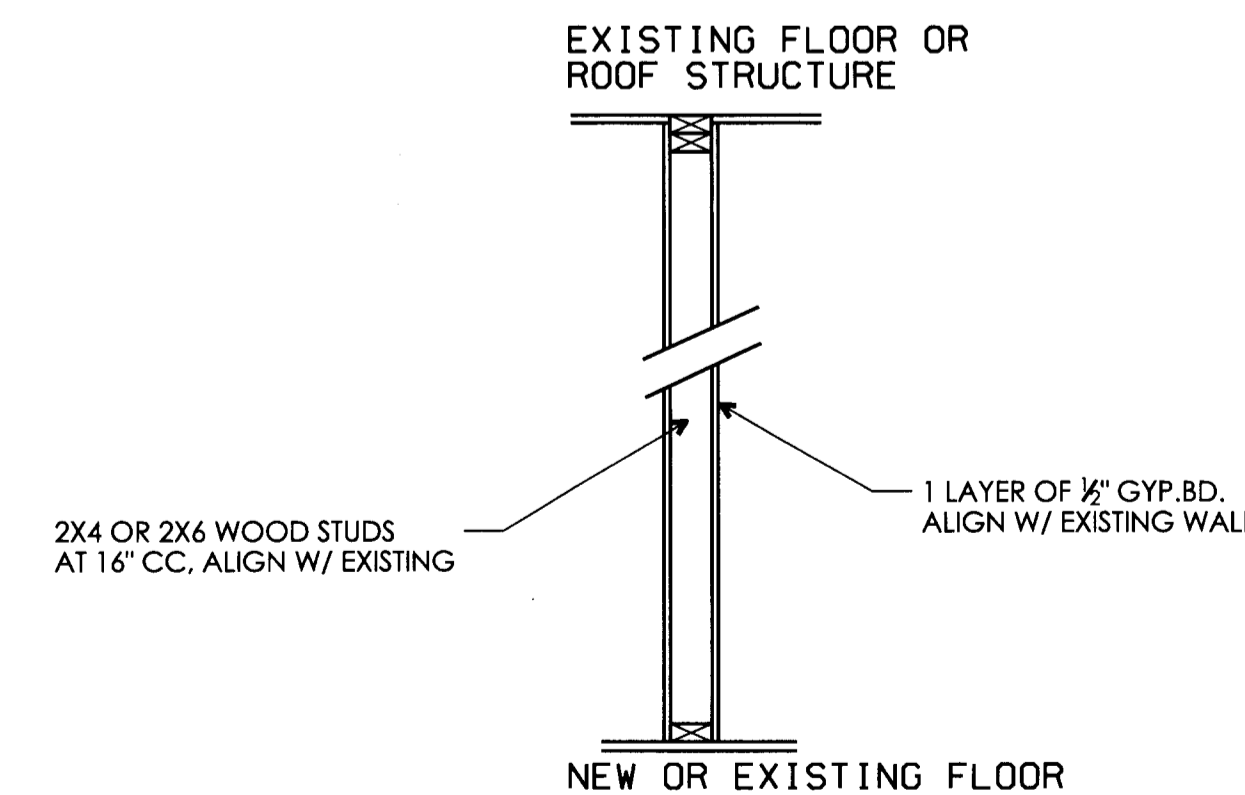


1  
A6

**DETAIL**

3/4"

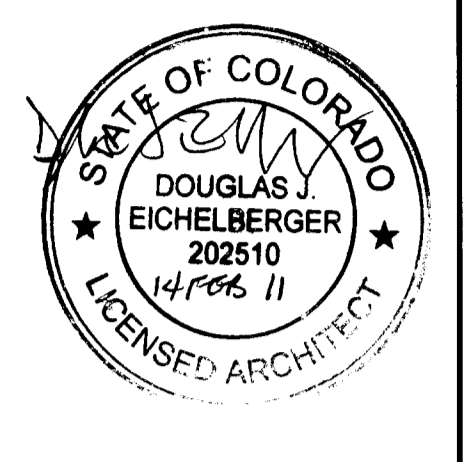
NOTE:  
FLOAT ALL INTERIOR WALLS IN EXISTING GARAGE AREA.



2  
A6

**DETAIL**

3/4"



ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-488-5211  
luckyarch@cox.net

STRUCTURAL ENGINEER:  
ALAN STERNBERG  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-488-5211  
structuralengineer@yahoo.com

**THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.**

DATE:  
OWNER, MEP REVIEW  
21 DECEMBER 2010  
11 JANUARY 2011

PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

Released for Permit  
APR 01 2011  
AJE  
RBD Construction

SHEET:  
**A6**



FAN SCHEDULE									
TAG	MANUFACTURER MODEL	FAN TYPE	ALT. CFM	S.P.	FAN RPM	SONES AT OPER. PT.	ELECTRICAL		ADDITIONAL FEATURES REQ.
							WATTS	VOLTS/PHASE	
EF-1	BROAN QTRE110	CEILING DIRECT	100	0.125	950	1.3	36.3	115/1	1,2,3,4
FEATURES: 1. CORRECT ALL FAN RPM FOR ALTITUDE. 2. SWITCH ON W/ LIGHTS. 3. WALL CAP BY FAN MANUFACTURER. 4. GRAVITY BACKDRAFT DAMPER.									
EQUALS BY COOK									

COMBINATION FAN / HEATER / LIGHT SCHEDULE									
TAG	MANUFACTURER MODEL	FAN CFM	HEATER WATTS	LIGHT WATTS	SONES AT OPER. PT.	ELECTRICAL			ADDITIONAL FEATURES REQ.
						AMPS	MOCP	VOLTS/PHASE	
FHL-1	BROAN QT100HL	100	1500	(2) 60	1.2	14.6	20	115/1	1,2,3
FEATURES: 1. CORRECT ALL FAN RPM FOR ALTITUDE. 2. THREE INDEPENDENT SWITCHES. 3. GRAVITY BACKDRAFT DAMPER.									
EQUALS BY COOK									

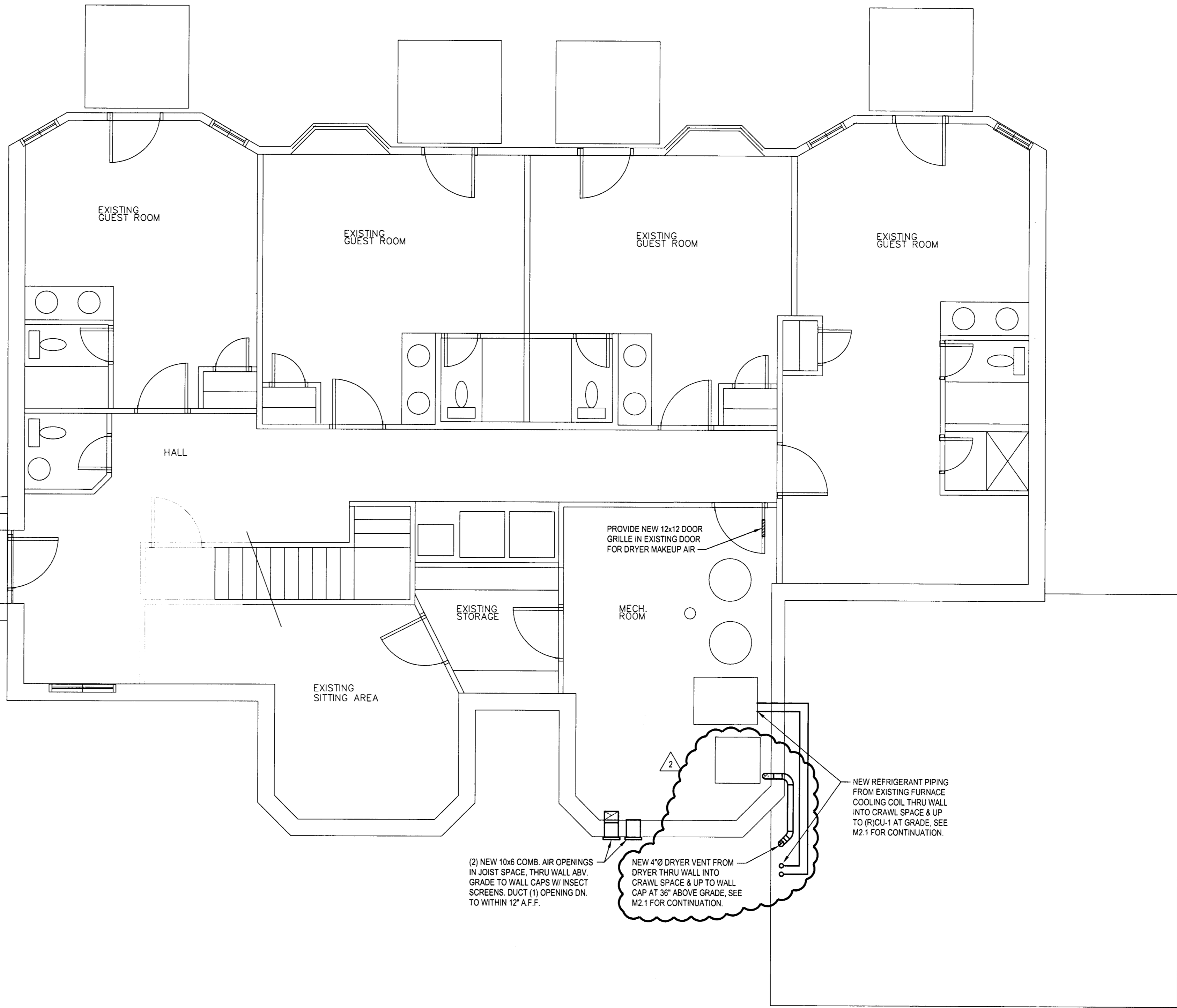
ELECTRIC BASEBOARD RADIATION SCHEDULE						
TAG	MANUFACTURER MODEL	WATTS	BTUH OUTPUT	ELECTRICAL		ADDITIONAL FEATURES REQUIRED
				AMPS	VOLTS/PHASE	
BBR-1	BERKO BKOC-2546W	1500	5120	6.3	240 / 1	1.2
FEATURES: 1. INTEGRAL DISCONNECT. 2. WALL MOUNTED THERMOSTAT.						

**GENERAL NOTES**

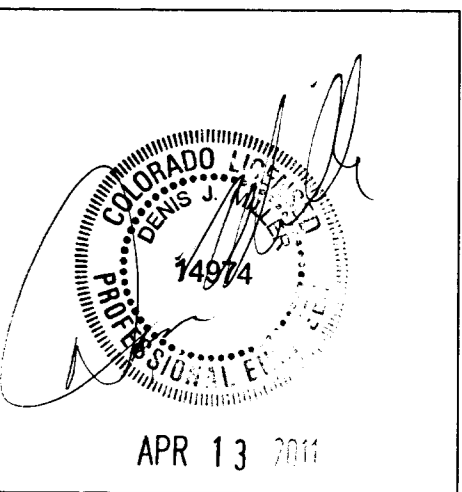
- Follow all applicable Codes and Ordinances. Pay all fees and permits and obtain the same.
- All equipment, insulation, and controls to meet local jurisdictional authority's adopted Energy Code.
- Visit site and ascertain existing conditions prior to bid.
- The information presented on this drawing is diagrammatic and is not to be scaled. It does not necessarily represent all elbows, duct extensions, offsets, hangers, etc. required for a complete working system.
- Shop drawings shall be submitted on all valves, fixtures, insulation, G.R.D.'s and equipment for response prior to ordering. Six (6) copies of each in one submittal. Clearly note any deviation between submitted items and specified items on the cover sheet of the submittal. Failure to submit may cause specified items to be rejected and replaced at contractor's expense.
- Extra costs or changes allowed only if approved in writing by Architect with dollar amount prior to ordering. No extensions of completion time allowed without written authorization.
- This Contractor is responsible for verifying all field conditions prior to the purchase of any materials and the commencement of any work and is to notify the Architect of any discrepancies for resolution.
- Provide Owner with 3 sets of typewritten and bound "Operating Instructions" for all systems and equipment, including manufacturer's maintenance manuals. Include approved equipment submittals, equipment start-up reports, lubrication, filter types and sizes, balance report, starting and stopping procedures, and list service contractor's 24 hour telephone numbers.
- Conceal all work in finished areas.
- Cut and patch to match adjacent areas. No structural member shall be cut or notched without structural engineer's written approval.
- Guarantee all labor and equipment for one year from the date of acceptance by Owner.

**MECHANICAL NOTES**

- Provide all curbs, supports, and anchors for mechanical work. No chain, tape, or wire may be used for hanging or supporting. Provide and install all necessary shims and leveling devices to properly install all equipment in a level condition.
- Receive, uncrate, assemble, insure, and install in conformance to Manufacturer's recommendations all equipment furnished by this contract and furnished by the Owner.
- All sheet metal to be made and installed to SMACNA Seal Class B standards with 45 degree maximum reducing, 30 degree maximum expanding transitions.
- Provide sleeves and collars for all ductwork and pipes through walls, floors, and ceilings. Seal all external penetrations weather tight with exterior commercial grade caulk.
- Confirm voltage, phase, and ampacity with Electrical Contractor prior to ordering equipment. All control and interlock wiring for Mechanical equipment by mechanical contractor. Three phase motors to have magnetic starters with protection on all three leads. Controls and heating/cooling equipment to automatically restart after power failure. All wire to be in conduit where required by code.



**1 LOWER LEVEL MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"



ARCHITECT: DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LAKEWOOD, CO. 80118  
303-488-5211  
luckyranch@aol.com

STRUCTURAL ENGINEER:  
ALAN STEFENSKI P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

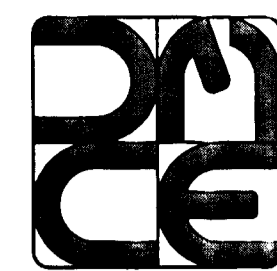
DATE:  
PERMIT AND CONSTRUCTION  
14 FEBRUARY 2011

1 BUILDING DEPT. COMMENTS, 22 MARCH 2011

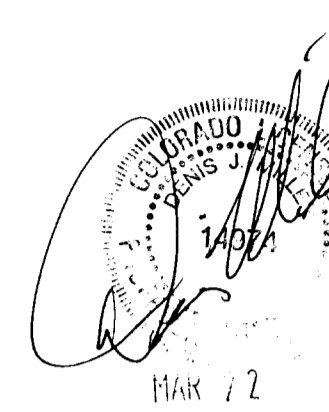
2 BUILDING DEPT. COMMENTS #2 11 APRIL 2011

Released for Permit  
APR 13 2011  
DCH  
RBD Mech /

SHEET:  
M2.0



**ENGINEERING**  
 5737 W 6TH AVE.  
 LAKEWOOD, CO 80214  
 PHONE (303) 421-3208  
 FAX (303) 421-3209



ARCHITECT:  
 DOUGLAS J. EICHELBERGER  
 12345 SPRING VALLEY RD.  
 COLO. SPRING, CO. 80116  
 303-988-5711  
 luckyranch@aol.com

STRUCTURAL ENGINEER:  
 ALAN STEPIEN, P.E.  
 MOUNTAIN STATES STRUCTURAL, INC.  
 303-925-1572  
 structural.engineer@yahoo.com

**THE HIDEAWAY  
 RETREAT CENTER ROAD  
 COLO. SPRINGS, CO.**

DATE:  
 PERMIT AND  
 CONSTRUCTION  
 14 FEBRUARY 2011

**BUILDING DEPT.  
 COMMENTS,  
 22 MARCH 2011**

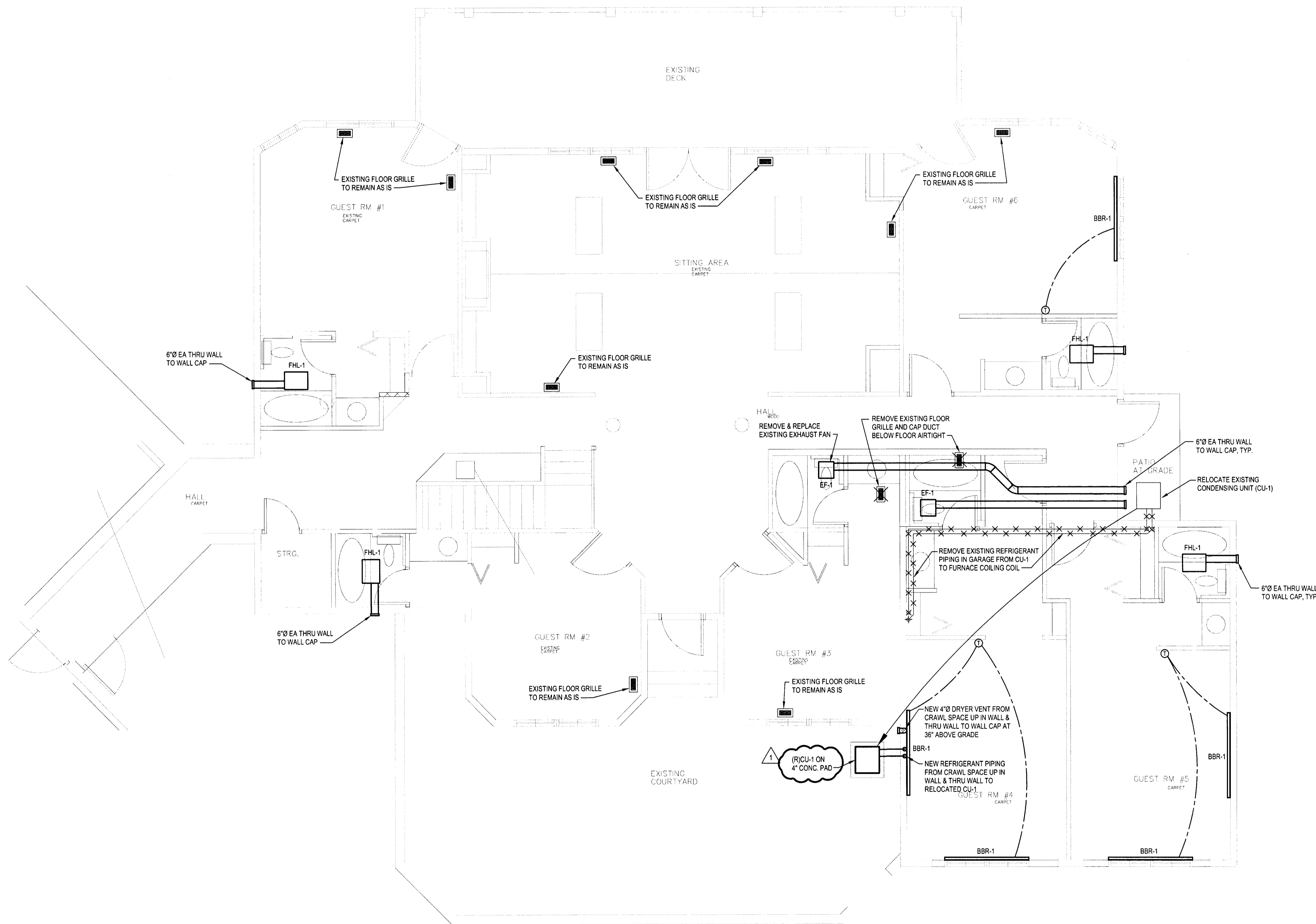
Released for Permit

APR 15 2011

DCH  
 RBD Mech /

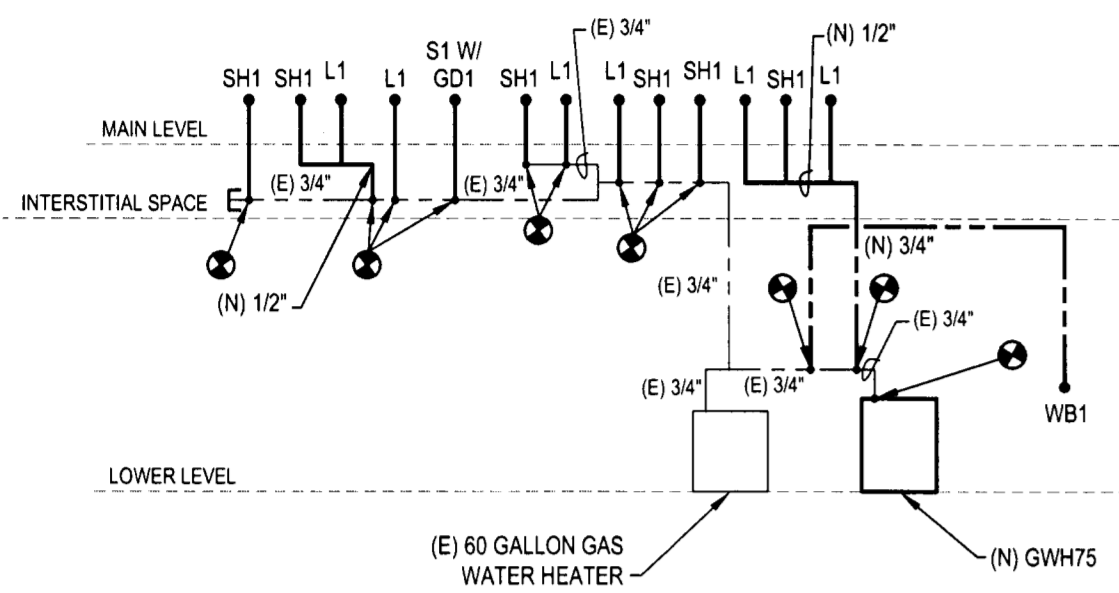
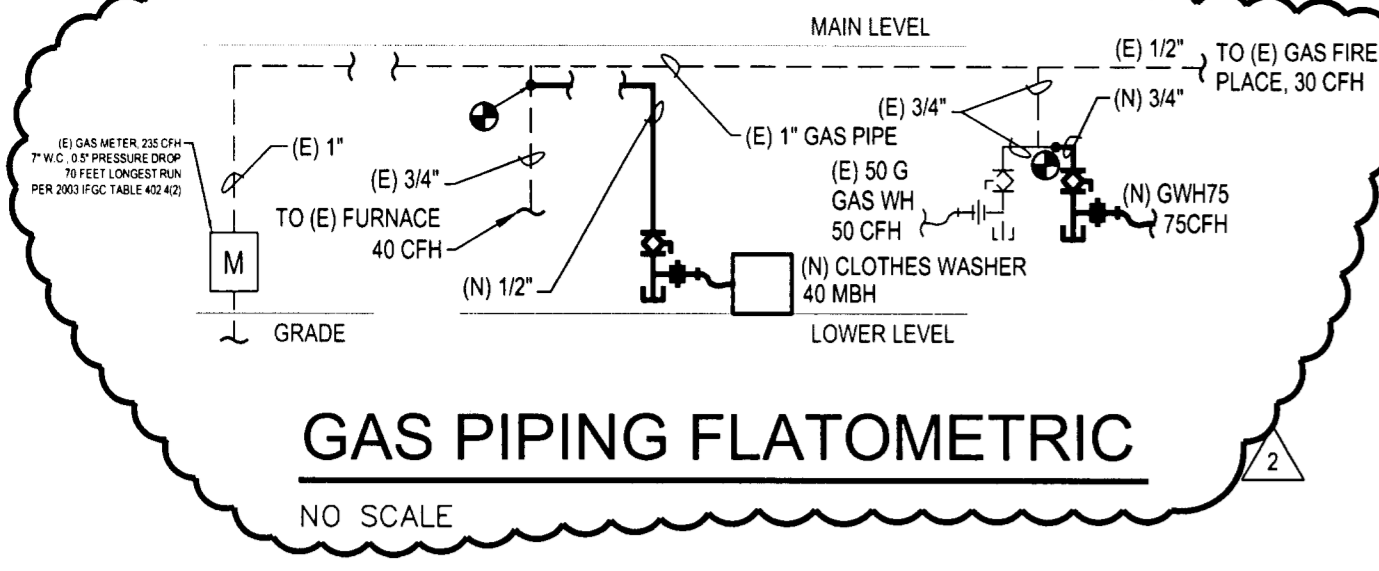
SHEET:

**M2.1**

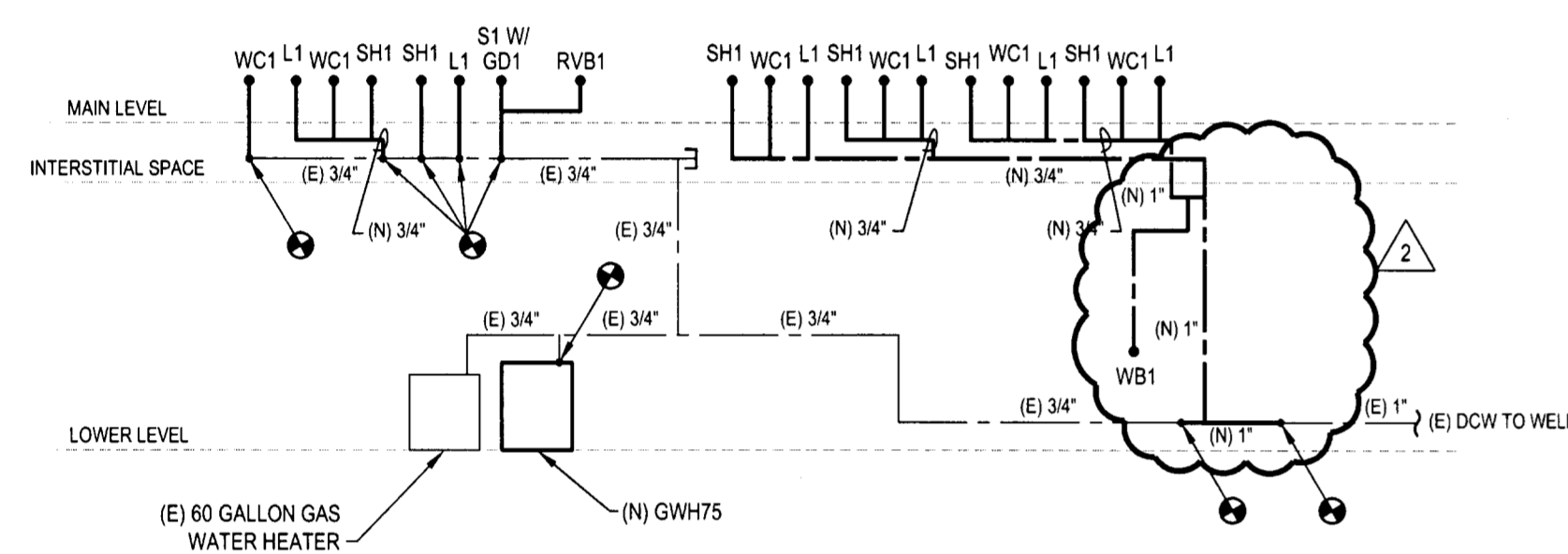


**1 UPPER LEVEL MECHANICAL PLAN**  
 SCALE: 1/4" = 1'-0"

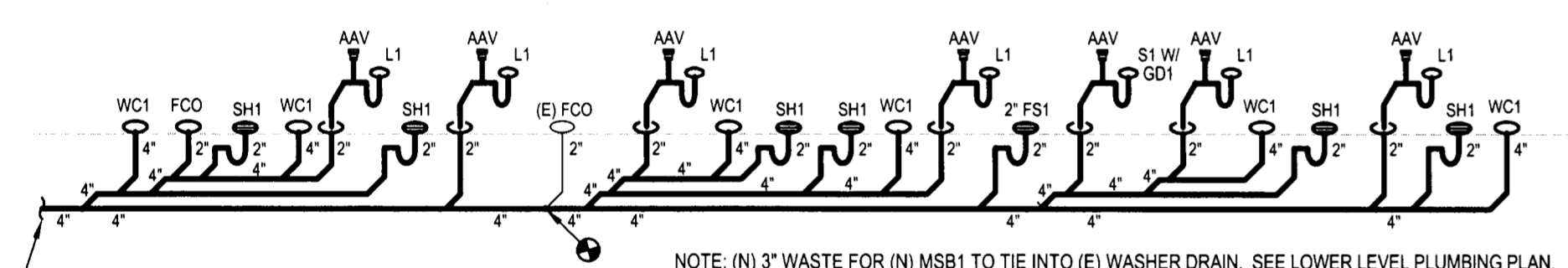




**GENERAL NOTE:**  
CONTRACTOR TO PROVIDE AND INSTALL TV1 AT ALL LAVATORIES PER CODE.



**GENERAL NOTE:**  
CONTRACTOR TO PROVIDE AND INSTALL TV1 AT ALL LAVATORIES PER CODE.



- PLUMBING NOTES**
- THE PLUMBING SYSTEM WITH FIXTURES, WATER HEATER, DRAINS, VENTS, WATER PIPING, INSULATION, GAS PIPING, ETC., SHALL BE BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  - ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODES AND/OR ORDINANCES, INCLUDING BUT NOT LIMITED TO PIPE SIZES.
  - DOMESTIC WATER PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH WROUGHT COPPER SWEAT FITTINGS. USE ONLY CANFIELD 100% WATER SAFE SOLDER (95% TIN, 4% COPPER, 1% SILVER) OR APPROVED EQUAL. DO NOT USE LEAD OR ANTIMONY SOLDERS. [AT CONTRACTORS OPTION ALL DOMESTIC WATER PIPE AFTER WATER ENTRY ASSEMBLY MAY BE CPVC PIPE. USE ONLY FLOWGUARD GOLD PIPE WITH FLOWGUARD GOLD ONE STEP CEMENT ON PIPES 1/2" THROUGH 2". ON PIPE 2-1/2" AND UP USE ONLY CORZAN CPVC PIPE WITH A PRIMER AND ASTM F-493 CPVC SOLVENT CEMENT. NO CPVC SUBSTITUTIONS ARE ALLOWED.]
  - WATER PIPING FROM THE CENTRAL MANIFOLD LOCATED ON THE PLANS TO EACH OF THE INDIVIDUAL FIXTURES SHALL BE PIPED IN WIRSBO AQUAPEX 1/2" CROSS-LINK POLYETHYLENE PIPE OR EQUALS BY REHAU OR WATTS RADIANT. THE AQUAPEX PIPE SHALL BE MANUFACTURED BY THE ENGEL OR SALINE METHOD AND SHALL UTILIZE MANUFACTURER APPROVED COPPER TO PEX FITTINGS AND WIRSBO OR PRECISION HYDRONICS HEADER MANIFOLDS WITH SHUTOFF VALVES ON EACH BRANCH. ALL BRANCHES SHALL HAVE AN EMBOSSED PLASTIC TAG CLEARLY IDENTIFYING EACH FIXTURE SERVED PERMANENTLY ATTACHED AT THE MANIFOLD VALVE. ALL PIPING SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION HANDBOOK'S LATEST ADDITION. TUBING SHALL BE PROTECTED AT ALL STUD PENETRATIONS WITH NAIL PLATES AND WEAR GROMMETS. EVERY FIXTURE SHALL BE RUN INDEPENDENTLY FROM THAT FIXTURE TO THE COMMON MANIFOLD (HOMERUN METHOD). EXCEPTION: THE WATER CLOSET MAY BE BRANCHED FROM THE IMMEDIATELY ADJACENT LAVATORY COLD WATER SUPPLY. ALL DOMESTIC HOT PIPE SHALL BE RED. ALL DOMESTIC COLD PIPE SHALL BE BLUE. ANY PIPING PENETRATING A FIRE RATED WALL OR FLOOR-CEILING ASSEMBLY SHALL BE PROTECTED WITH MANUFACTURER AND CODE APPROVED FIRE STOP SEALANT. SEALANT SHALL BE APPLIED IN STRICT CONFORMANCE WITH ALL MANUFACTURERS AND BUILDING REGULATORY OFFICIAL REQUIREMENTS AND RECOMMENDATIONS. TUBING SHALL MEET STANDARDS OF ASTM F876-F877 AS CERTIFIED BY NSF INTERNATIONAL. PRODUCT SHALL BE LISTED TO AN ANSI NSF INTERNATIONAL STANDARD 14 AND 61 AND ASTM STANDARD F 969 AND UL 1821. FITTINGS SHALL BE CERTIFIED BY CSA B187.5, ASTM F877, ASTM 1960, ANSINFS 14, AND ANSINFS 61. EQUALS BY: REHAU AND WATTS RADIANT.
  - [AT CONTRACTOR'S OPTION IN LIEU OF THE HOMERUN METHOD THE DOMESTIC HOT AND DOMESTIC COLD WATER MAY BE ROUTED IN ONE 3/4" CONTINUOUS AQUAPEX PIPE FROM THE MECHANICAL ROOM SHUTOFF VALVES TO ALL FIXTURES WITH 1/2" BRANCH TAKE OFF'S TO EACH FIXTURE. IN ADDITION DOMESTIC HOT WATER PIPING MUST HAVE A 1/2" AQUAPEX RECIRC PIPE AND RECIRC PUMP IN THE MECHANICAL ROOM. PROVIDE ALL ITEMS IN ACCORDANCE WITH ALL MANUFACTURERS RECOMMENDATIONS. COLOR CODING OF ALL 1/2" AND 3/4" AQUAPEX PIPE IS STILL REQUIRED.]
  - COPPER TUBING INSTALLED WITHIN A BUILDING AND IN OR UNDER A CONCRETE FLOOR SHALL BE INSTALLED WITHOUT JOINTS. WHERE JOINTS ARE PERMITTED, THEY SHALL BE BRAZED AND FITTINGS SHALL BE WROUGHT COPPER.
  - INTERIOR SOIL AND WASTE PIPING ABOVE GRADE SHALL BE SERVICE WEIGHT IRON SOIL PIPE AND NO-HUB FITTINGS APPROVED MANUFACTURERS A&I FOUNDRY, CHARLOTTE PIPE, AND TYLER PIPE BEARING THE TRADEMARK OF CISPI. PVC SCHEDULE 40 PLASTIC PIPE AND FITTINGS MAY BE USED WHERE APPROVED BY OWNER AND ALLOWED BY THE BUILDING DEPARTMENT. INSTALL ALL PVC PIPE PER ASTM D2321 REQUIREMENTS AND RECOMMENDATIONS. PROVIDE ALTERNATE ADD TO OWNER FOR C.I. PIPE AND SECURE WRITTEN AUTHORIZATION TO USE PVC BEFORE INSTALL BEGINS.]
  - GAS PIPING 2" AND SMALLER SHALL BE THREADED SCHEDULE 40 STEEL PIPE WITH MALLEABLE IRON FITTINGS. INTERIOR GAS PIPING IN CONCEALED LOCATIONS SHALL BE WELDED. ALL GAS PIPE OVER 2" SHALL BE WELDED. PAINT ALL EXTERIOR EXPOSED GAS PIPING WITH TWO HEAVY COATS OF OUTDOOR ENAMEL. SUPPORT GAS PIPING ABOVE THE ROOF AS REQUIRED BY LOCAL AUTHORITIES AND DETAILS ON DRAWINGS. [AT CONTRACTOR'S OPTION GAS PIPE MAY BE TRACPIPE PSII PIPE AND FITTINGS FOR INTERIOR GAS PIPE AND TRACPIPE COUNTER STRIKE PIPE AND FITTINGS WITH UV PROTECTION FOR EXTERIOR GAS PIPE. GASTITE IS NOT AN APPROVED EQUAL. IF TRACPIPE COUNTER STRIKE IS USED NO PAINTING IS REQUIRED. PROVIDE CSA APPROVED HARDENED STRIKER PLATES LISTED FOR CSST SYSTEMS AT ALL LOCATIONS WHERE TUBING IS CONCEALED AND PUNCTURE FROM NAILS OR SCREWS IS A POSSIBLE THREAT. SUPPORT ALL PIPE PER DETAILS, BUILDING CODE, AND MANUFACTURER REQUIREMENTS.]
  - INSULATE ALL PIPING, VALVES AND FITTINGS FOR NON RECIRCULATED DOMESTIC HOT AND COLD WATER WITH 1" PREFORMED FIBERGLASS WITH "K" FACTOR OF 0.23 MAXIMUM AT 75-DEG F MEAN TEMPERATURE. JACKET SHALL BE ASU WITH ZESTON FITTINGS AND WITH VAPOR BARRIER ON ALL COLD SURFACE PIPES. ALL INSULATION MATERIALS SHALL CONFORM TO ASTM 84, NFPA 50A AND 255, AND UL 723 NOT TO EXCEED RATINGS OF 25 FLAME SPREAD AND 50 SMOKE DEVELOPED. ALL INSTALLED INSULATION SHALL MEET OR EXCEED ASHRAE STANDARD 90.1-2001.
  - WATER-HEATING EQUIPMENT NOT SUPPLIED WITH INTEGRAL HEAT TRAPS AND SERVING NON CIRCULAR SYSTEMS SHALL BE PROVIDED WITH HEAT TRAPS ON THE SUPPLY AND DISCHARGE PIPING ASSOCIATED WITH THE EQUIPMENT.
  - MOUNT LAVATORY AT REQUIRED ELEVATION FOR HANDICAP USAGE WHERE REQUIRED. INSULATE ALL EXPOSED PIPING SUPPLIES AND DRAINS PER ADA REQUIREMENTS AND DRAWING SPECIFICATIONS.
  - LOCATE ALL PLUMBING VENTS WITH 5' OF ROOF RIDGE. PLUMBING VENT PENETRATIONS SHALL BE CAST IRON AND ONE SIZE LARGER THAN REQUIRED VENT SIZE.
  - PROVIDE LINE SIZE SHUT-OFF VALVE, MALLEABLE UNION, AND DIRT LEG ON ALL GAS EQUIPMENT. PIPE REDUCER SHALL OCCUR AFTER VALVE AND DIRT LEG.
  - WATER HAMMER SHOCK-ARRESTER SHALL BE PROVIDED AND INSTALLED ON ALL QUICK CLOSING VALVES INCLUDING DISH AND CLOTHES WASHER TO PREVENT PIPING SHOCK OR HAMMER. SIZE ARRESTER PER INDUSTRY STANDARDS.
  - ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE NEW AND IN CLEAN AND BRIGHT CONDITION. THE CONTRACTOR SHALL TAKE ANY MEASURE NECESSARY TO ENSURE AND MAINTAIN THE QUALITY OF THE INSTALLATION. ALL PIPING SHALL BE FLUSHED WITH CLEAN WATER PRIOR TO BEING PLACED INTO SERVICE TO ENSURE THAT ANY RESIDUAL CUTTING OIL, SLAG, THREAD TAPE, FLUX OR DIRT HAS BEEN PURGED. IN ADDITION TO FLUSHING, THE DOMESTIC WATER PIPING SHALL BE STERILIZED TO ELIMINATE ANY CONTAMINATION IN ACCORDANCE WITH CURRENT IPC RECOMMENDATIONS.
  - ELECTRIC HEAT TRACE TAPE SHALL BE PROVIDED WHERE REQUIRED FOR FREEZE PROTECTION OF WATER PIPES WITH VESTIBULES, CRAWL SPACES OR OTHER UNHEATED SPACES.
  - ALL PIPING, EQUIPMENT, ETC. SHALL BE IDENTIFIED. ALL PIPING IS TO BE TESTED IN ACCORDANCE WITH ACCEPTED CODES AND STANDARD OF CARE PRACTICES.
  - ALL SAFETY RELIEF VALVES SHALL BE VENTED TO ATMOSPHERE OR PIPED FULL SIZE TO NEAREST FLOOR DRAIN.
  - LABEL ALL PIPING IN ACCESSIBLE AREAS. MEDIUM PRESSURE GAS TO BE MARKED EVERY 6 FEET.
  - ALL PIPING TO BE HUNG ON ADJUSTABLE SPLIT RING HANGERS OF SIMILAR MATERIAL AS THE PIPE UNLESS OTHERWISE NOTED. PIPE HANGER SPACING IN FEET TO BE AS FOLLOWS:

**PIPE TYPE/SIZE**

1/2	3/4	1	1-1/4	1-1/2	2
COPPER	6	6	6	6	10
CAST IRON	PER SECTION 308, TABLE 308.5 OF THE 2006 IPC				
STEEL (SCREWED PIPE-IPS)	12	12	12	12	12
PLASTIC - WASTE AND VENT	4	4	4	4	4
AQUAPEX - DOMESTIC WATER	32	32	-	-	-

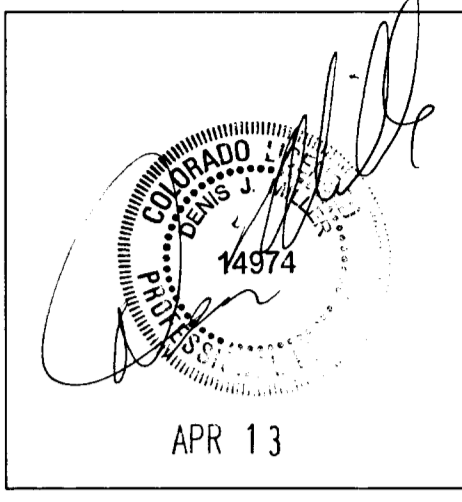
**FIXTURE CONNECTION SCHEDULE**

FIXTURE	HW	CW	WASTE	VENT
WATER CLOSET - TANK	-	1/2"	4"	2"
LAVATORY	1/2"	1/2"	2"	2"
MOP SERVICE BASIN	3/4"	3/4"	3"	2"
SINK (WITH DISPOSER)	1/2"	1/2"	2"	2"
BATH TUB / SHOWER	1/2"	1/2"	2"	2"
CLOTHES WASHER	1/2"	1/2"	2"	2"

SIZES SHOWN ARE MINIMUM PIPE SIZES TO A SINGLE FIXTURE.

- PLUMBING FIXTURE LIST**
- AAV - AIR ADMITTANCE VALVE  
BRAND = STUDDOR MINI-VENT  
OTHER = NO SUBSTITUTIONS
- BT1 - TUB/SHOWER COMBO  
BRAND = LASCO LASCOAT 260330M STYLE ONE PIECE  
WASTE = WATCO TRIP LEVER 501-SL-BRS-CP, 17 GA BRASS  
FINISH = CHROME FINISH FITTINGS & TRIM  
TRIM = ZURN Z7392-SS-MT-D2P-HW-H9-S9, CHROME  
OTHER = 1.5 GPM. SLIP RESISTANT
- F81 - FLOOR SINK  
BRAND = JR SMITH 3140Y-12 (3420) ACID RESISTANT ENAMEL INTERIOR, GRATE  
OTHER = DOME STRAINER, SEEPAGE FLANGE & HALF TOP GRATE (2)
- GD1 - GARBAGE DISPOSAL  
BRAND = IN-SINK-ERATOR EVOLUTION PRO ESSENTIAL, MODEL PRO ES, 3/4 HP, 120V/60, 8.1 AMP  
OTHER = 1-1/2" DRAIN CONNECTION, DISH-WASHER CONNECTION, STAINLESS STEEL GRINDING ELEMENTS
- GWH75 - WATER HEATER  
TYPE = TANK, NATURAL GAS  
BRAND = RHEEM-RUUD MODEL G75-75N-2  
OTHER = 75 GAL CAPACITY, 75 MBH INPUT, 39.4 MBH OUTPUT AT PROJECT SITE, 80 DEG F RISE, 320 LBS
- L1 - LAVATORY  
TYPE = CHINA COUNTER TOP, OVAL, SELF-RIMMING  
BRAND = ZURN Z5114 066, 1.07-17Q (ZURN ONE SYSTEM)  
WASTE = ZURN Z8709 1-1/4" SEMI-CAST TRAP W/CLEANOUT, GRID STRAINER  
SUPPLIES = ZURN Z804LRQ-LK-8860-12-PC 1/4 TURN STOP, LOOSE KEY WISS FLEX HOSES  
TRIM = ZURN Z81103-3M FAUCET  
OTHER = 0.5 GPM AERATOR VANDAL RESISTANT SPRAY W/SILICONE COUNTER SEALANT, 110" MAX
- MSB1 - MOP SERVICE BASIN  
BRAND = ZURN Z1986-24  
WASTE = SS DOME STRAINER W/LINT BASKET, 3" DRAIN  
TRIM = ZURN Z843-M1-RC FAUCET  
OTHER = (-)VINYL BUMPER GUARD W/SILICONE FLOOR SEALANT, VACUUM BREAKER REQUIRED
- RVB1 - ICE MAKER OUTLET BOX  
BRAND = SIOUX CHIEF 696-1010MF  
OTHER = MOUNT SECURELY TO STUD, MINI-RESTER WATER HAMMER ARRESTERS, 1/4" O.D. COMPRESSION OUTLET CONNECTION
- S3 - BAR SINK  
BRAND = ELKAY MODEL BLR-15  
WASTE = 1-1/4" 17 GA CP-P-TRAP W/CLEANOUT  
SUPPLIES = ZURN Z804LRQ-LK-8860-12-PC 1/4 TURN STOP, LOOSE KEY, WISS FLEX HOSES  
TRIM = ZURN Z7870C-FC SWIVEL SPOUT, ADA APPROVED SWIVEL, 0.5 GPM VANDAL RESISTANT AERATOR, & Z2R426-WB-SS STRAINER  
OTHER = 18 GA 302 STNLS STEEL, SELF-RIMMING, 3 HOLE SINK
- TV1 - TEMPERING MIXING VALVE  
BRAND = BRADLEY S59-4000 TMV  
OTHER = 1/2" MALE NPT CONNECTIONS, ASSE 1070 CERTIFIED
- WB1 - WASHER BOX  
BRAND = SIOUX CHIEF MODEL 696-2313MFPK4  
OTHER = PROVIDE ADDITIONAL OX BOX FOR STUDDOR MINI-VENT AAV
- WC1 - WATER CLOSET (HANDICAPPED, PRESSURE TANK, MINIMUM MAP CERTIFIED TEST OF 800)  
TYPE = 1.0 GAL FLUSH TANK PER ASSE1037 AND ALL ANSI REQUIREMENTS  
BRAND = ZURN Z5561 (ZURN ONE SYSTEM) ELONGATED BOWL  
SUPPLIES = ZURN Z8804CRK-K-PC (LOOSE KEY)  
OTHER = ZURN Z5956SS-EL ELONGATED, PREMIUM WHITE, OPEN FRONT TOILET SEAT LESS COVER WITH SS CHECK HINGE
- FCO - FLOOR CLEANOUT  
BRAND = JR SMITH 4023-F-C NO-HUB ADJUSTABLE FLOOR CLEANOUT NICKEL BRONZE TOP - F FLASHING FLANGE - CM CARPET MARKER  
OTHER = GASKET SEAL, BRONZE PLUG, FLANGE, COLLAR, & CARPET CLAMP AS REQUIRED, (CM CARPET MARKER)
- NOTES: 1. ALL TOILET ROOM FIXTURES SHALL BE WHITE, VITREOUS CHINA UNLESS DESIGNATED OTHERWISE.  
2. PROVIDE SUITABLE REINFORCEMENTS FOR WALL HANGERS & SUPPORTS.  
3. APPROVED EQUALS:
- DRAINS: WADE JOSAM  
TRAMP PRIMERS: MIFAB, PPP, JOSAM, ZURN
- CHINA: KOHLER, AMERICAN STANDARD, CRANE  
FIBERGLASS: AQUABATH, AQUARIUS, AQUAGLASS, KOHLER, CRANE  
WATER COOLERS: OASIS, SUNROC, HAWS  
MOLDED STONE: FLORESTONE, STERN WILLIAMS, FIAT  
STAINLESS SINKS: DAYTON, JUST, ELKAY  
FAUCETS: SYMONS, MOEN, CHICAGO, DELTA
- SEATS: OLSONITE, CHURCH, BEMIS, OPEN FRONT  
FLUSH VALVES: DELANEY, ZURN  
GAS WATER HEATERS: AO SMITH, BRADFORD WHITE  
WALL HYDRANTS: CHICAGO, WOODFORD
- BRASS: DEARBORN, CS&B, BRASS-CRAFT
4. RESTROOM FIXTURES MUST COMPLY WITH ORDINANCE #196, "CRITERIA FOR WATER CONSERVATION".  
5. ALL HANDICAP LAVATORIES MUST HAVE OFFSET TRAPS AND "TRUBRO LAV GUARD" OR "ZURN INSUL-GUARD" INSULATION KITS FOR WASTES AND SUPPLY PIPES PER ADA "ARTICLE 4.19.4."  
6. VERIFY SHOWER BASE DIMENSIONS WARCHITECTURAL PLANS.  
7. VERIFY LEFT/RIGHT HAND LEVER LOCATION ON TANK TYPE WATER CLOSETS PER ADA REQUIREMENTS.

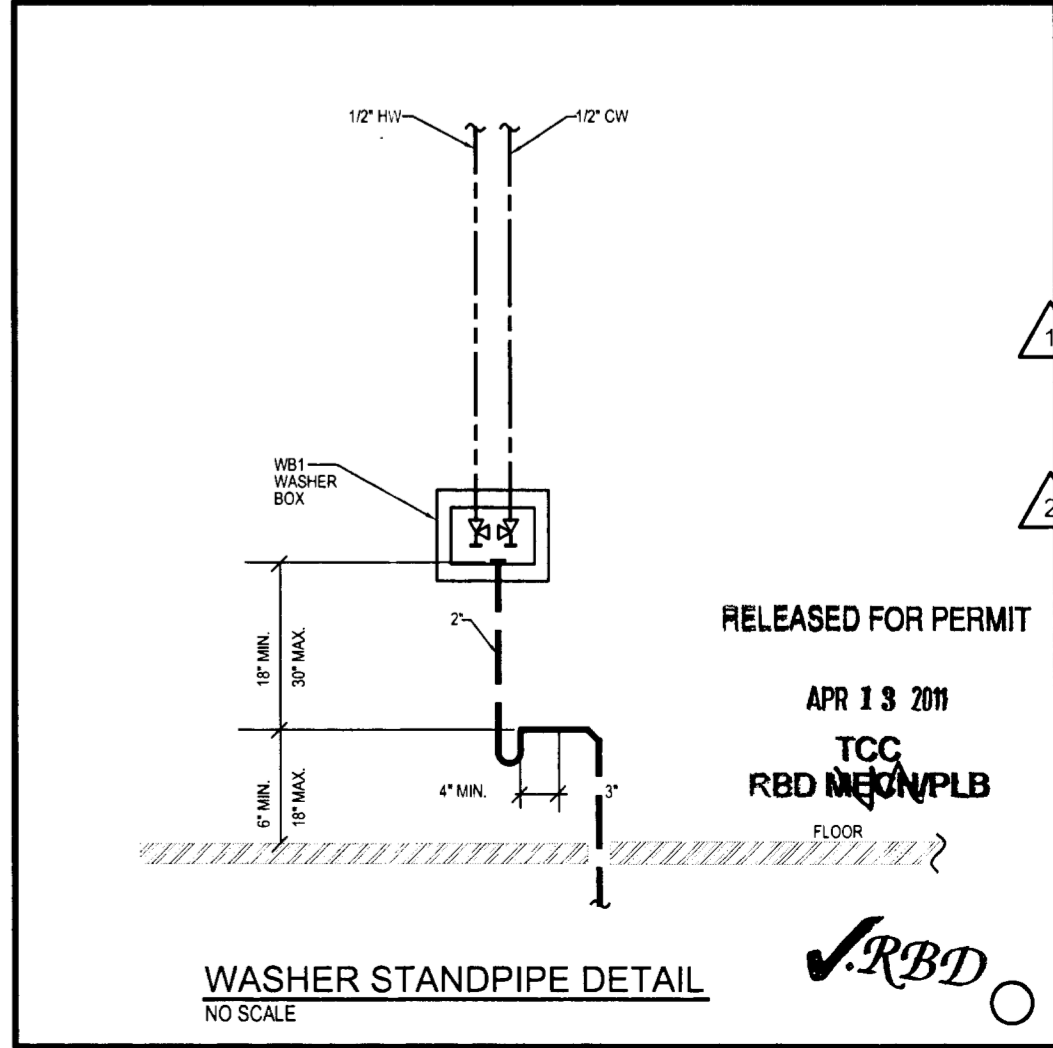
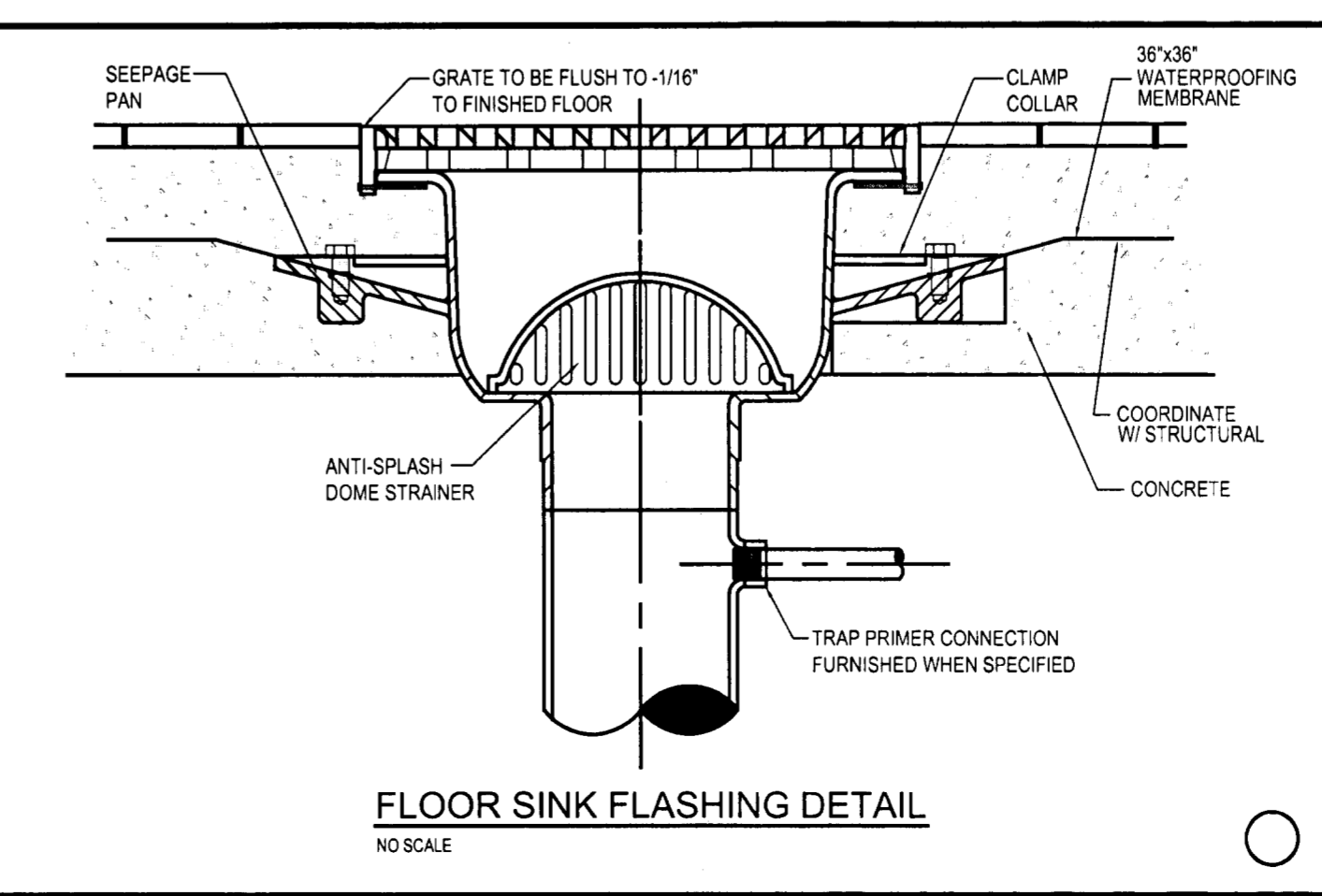
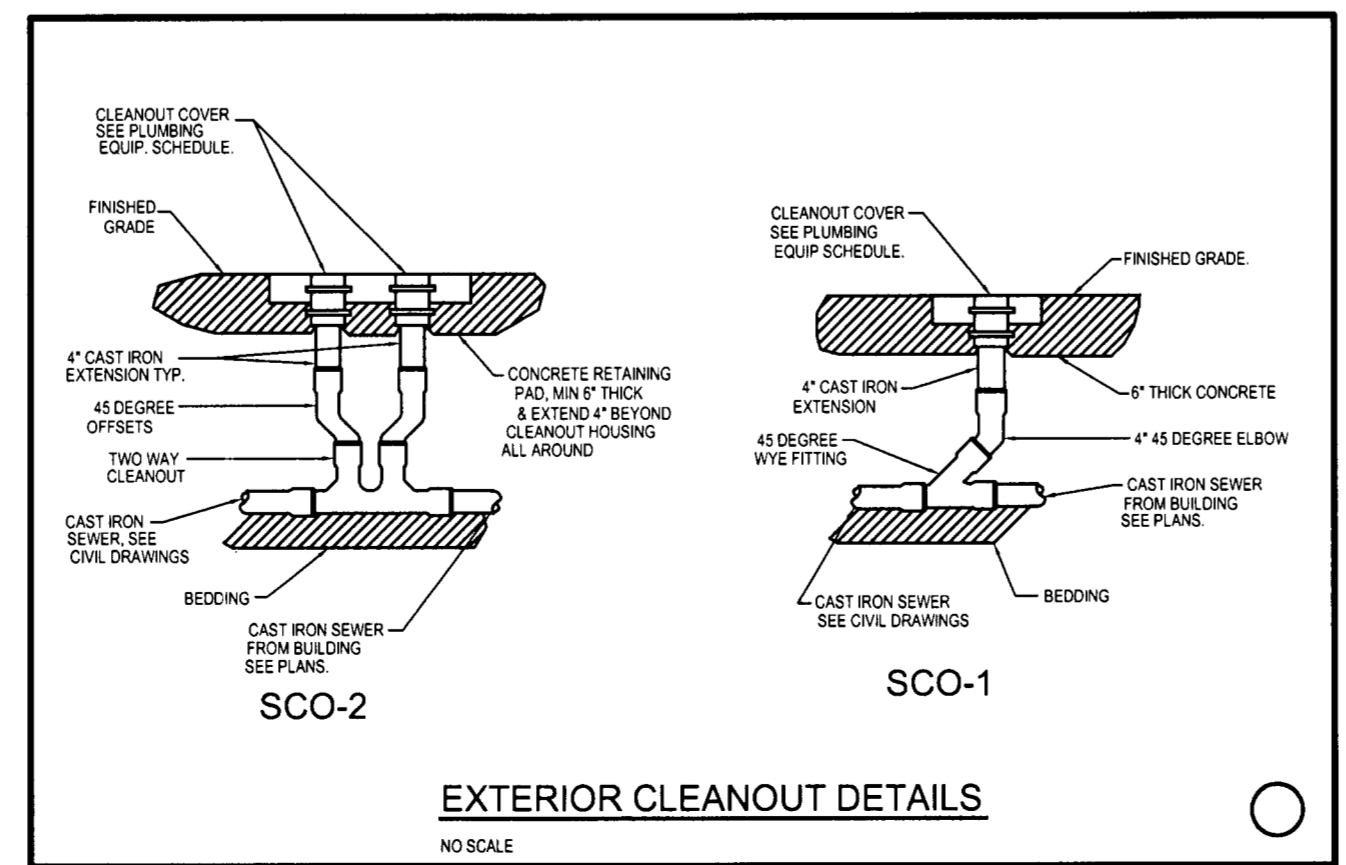
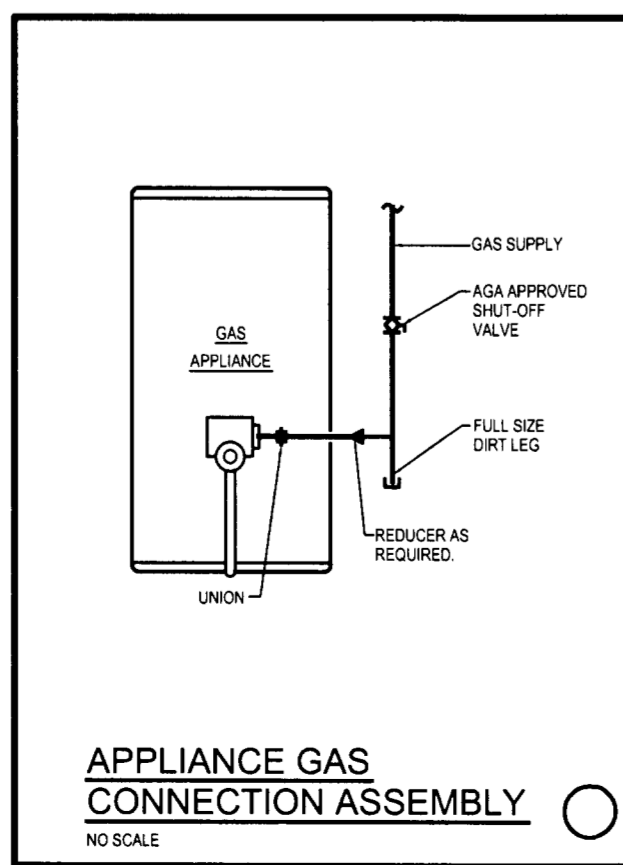
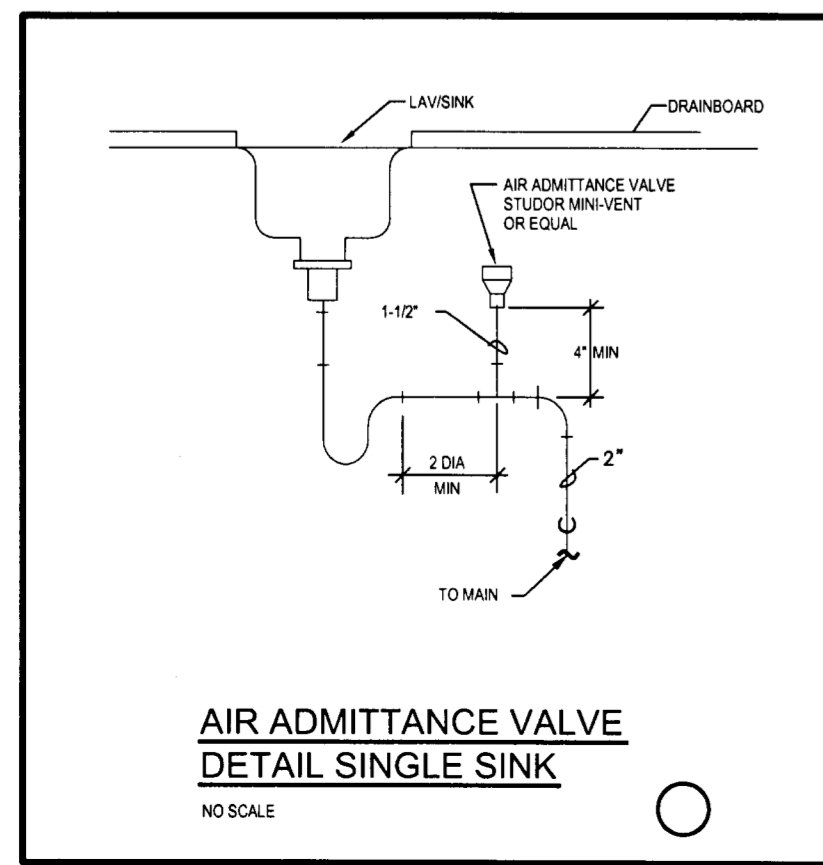
Released for Permit  
APR 13 2011  
DCH  
RBD Mech / GMS



ARCHITECT: DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LAKEWOOD, CO 80116  
303-688-5711  
luckybranch@aol.com

STRUCTURAL ENGINEER:  
ALAN STERNESKI, P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structural.engineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER ROAD  
3805 WALKER ROAD  
COLO. SPRINGS, CO.



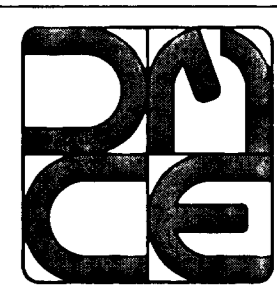
DATE:  
PERMIT AND CONSTRUCTION  
14 FEBRUARY 2011

BUILDING DEPT. COMMENTS:  
22 MARCH 2011

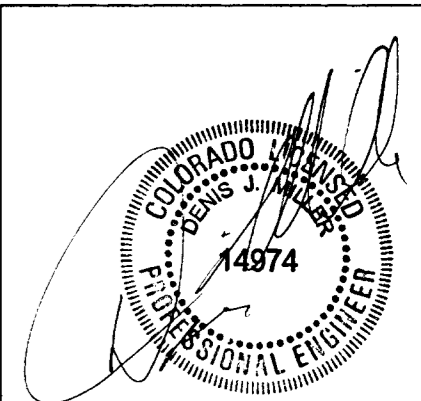
BUILDING DEPT. COMMENTS #2  
11 APRIL 2011

RELEASED FOR PERMIT  
APR 13 2011  
TCC  
RBD MECH/PLB

SHEET:  
P1.0



ENGINEERING  
5737 W 6TH AVE.  
LAKEWOOD, CO 80214  
PHONE (303) 421-3208  
FAX (303) 421-3209



APR 13

ARCHITECT: EICHEBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyrancho@aol.com

STRUCTURAL ENGINEER:  
ALAN STEFNIK P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-925-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

1 BUILDING DEPT.  
COMMENTS  
22 MARCH 2011

2 BUILDING DEPT.  
COMMENTS #2  
11 APRIL 2011

Released for Permit

APR 13 2011

DCH  
RBD Mech / *W*  
*GAS*

RELEASED FOR PERMIT

APR 13 2011

TCC  
RBD MECH/PLB



SHEET:

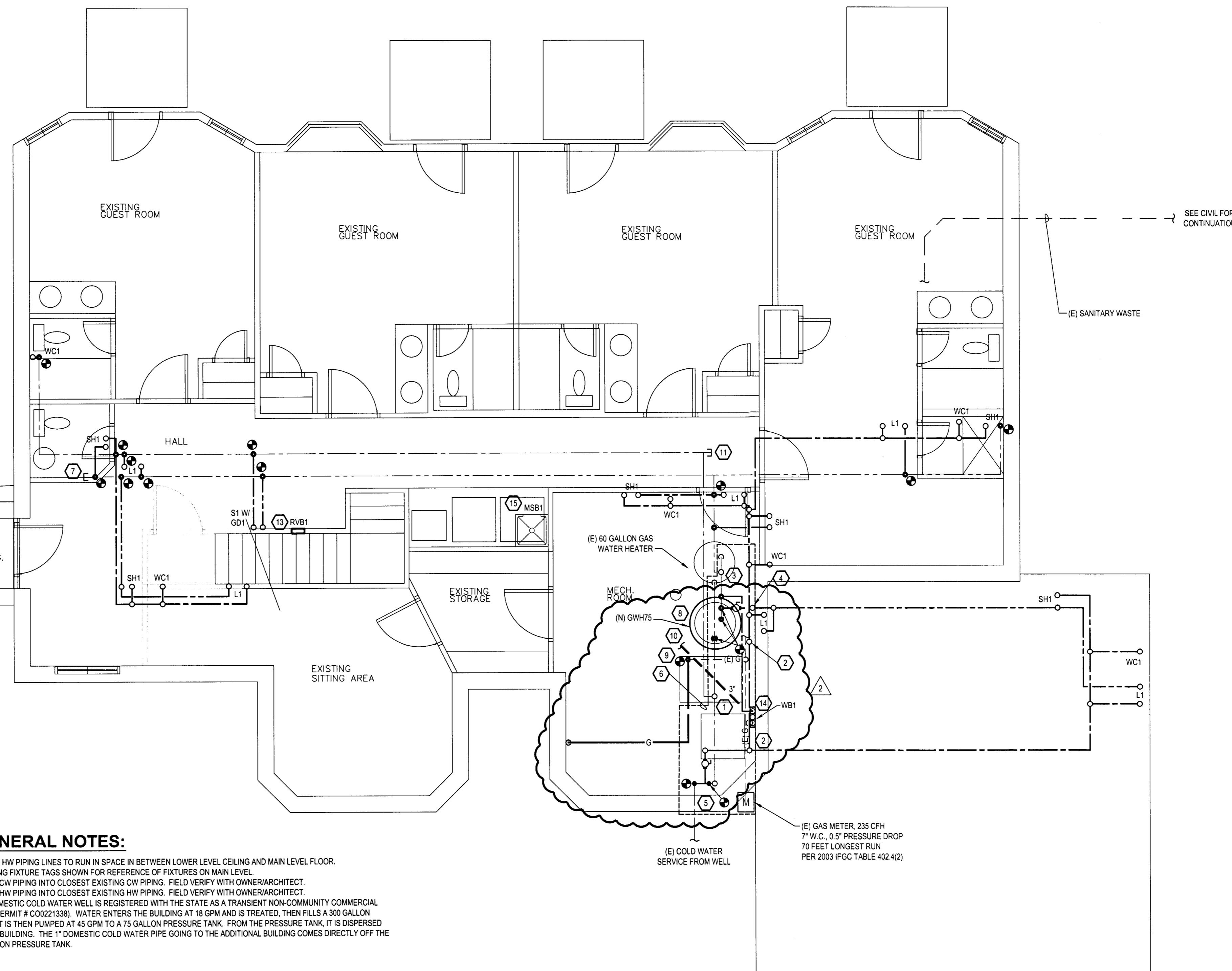
P2.0

**WORK NOTES:**

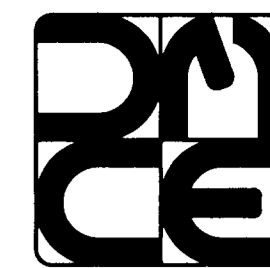
- 1 (E) 3/4" CW UP THRU LOWER LEVEL CEILING TO SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
- 2 (N) 3/4" CW UP THRU LOWER LEVEL CEILING TO SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
- 3 (E) HW UP THRU LOWER LEVEL CEILING TO SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
- 4 (N) 3/4" HW UP THRU LOWER LEVEL CEILING TO SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
- 5 (E) 1" DCW ENTRY INTO BUILDING. EXTEND 1" PIPE TO LOCATION SHOWN TO ALLOW FOR 3/4" CW TAKEOFF TO GO UP THRU LOWER LEVEL CEILING TO SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
- 6 CW & HW PIPES WITHIN DASHED LINE ARE LOCATED IN LOWER LEVEL MECHANICAL ROOM. FIELD VERIFY SIZE AND LOCATION AND RISERS OF ALL NEW AND EXISTING CW AND HW PIPES WITH OWNER/ARCHITECT.
- 7 CAP (E) HW LINE AT LOCATION SHOWN, OR WHERE MOST PRACTICAL. FIELD VERIFY (E) HW RUN IN THIS AREA WITH OWNER/ARCHITECT. DEMO (E) CW PIPE AFTER CAP.
- 8 DEMO AND CRATE (E) 40 GALLON WATER HEATER AND RETURN TO OWNER. REPLACE WITH (N) GWH75. RECONNECT ALL (E) HW, CW AND GAS LINES INTO (N) GWH75. RE-CONNECT EXISTING 4" VENT TO (N) GWH75.
- 9 TIE (N) 1/2" GAS LINE FROM (N) GAS CLOTHES DRYER INTO VERTICAL RISE OF (E) 3/4" GAS PIPE SERVING THE (E) FURNACE IN MECHANICAL ROOM. FIELD VERIFY AND COORDINATE LOCATION WITH OWNER/ARCHITECT. SEE GAS PIPING FLATOMETRIC SHEET P1.0.
- 10 CONTRACTOR TO FIELD VERIFY LOCATION OF (E) 3" OR LARGER SANITARY WASTE BELOW FLOOR OF LOWER LEVEL. SAW CUT FLOOR AND TIE (N) 3" SANITARY WASTE FROM (N) WB1 INTO (E) SANITARY WASTE. PATCH FLOOR TO MATCH EXISTING.
- 11 CAP (E) 3/4" CW AT LOCATION SHOWN, OR WHERE MOST PRACTICAL. DEMO (E) CW PIPE AFTER CAP.
- 12 (E) FLOOR CLEANOUT. IF NO FLOOR CLEANOUT EXISTS, THEN INSTALL NEW.
- 13 PROVIDE 1/2" CW LINE FROM S1 TO RVB1. COORDINATE LOCATION OF RVB1 ON MAIN LEVEL WITH OWNER/ARCHITECT.
- 14 COORDINATE NEW LOCATION OF WB1 FOR CLOTHES WASHER WITH OWNER/ARCHITECT.
- 15 (N) MOP SINK BASIN, MSB1. RE-USE EXISTING 3" SANITARY WASTE FOR NEW MSB1. DEMO (E) 1/2" HOT WATER AND COLD WATER LINES AND REPLACE WITH NEW 3/4" HOT WATER AND COLD WATER LINES. CAP EXISTING GAS LINE IN THIS AREA AND DEMO EXISTING WASHER AND DRYER. FIELD VERIFY LOCATION OF MSB1 AND EXISTING PLUMBING CONDITIONS IN THIS AREA WITH OWNER/ARCHITECT. PATCH FLOOR, WALL AND CEILING TO MATCH EXISTING.

**GENERAL NOTES:**

1. CW AND HW PIPING LINES TO RUN IN SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
2. PLUMBING FIXTURE TAGS SHOWN FOR REFERENCE OF FIXTURES ON MAIN LEVEL.
3. TAP (N) CW PIPING INTO CLOSEST EXISTING CW PIPING. FIELD VERIFY WITH OWNER/ARCHITECT.
4. TAP (N) HW PIPING INTO CLOSEST EXISTING HW PIPING. FIELD VERIFY WITH OWNER/ARCHITECT.
5. THE DOMESTIC COLD WATER WELL IS REGISTERED WITH THE STATE AS A TRANSIENT NON-COMMUNITY COMMERCIAL WELL (PERMIT # CO0221338). WATER ENTERS THE BUILDING AT 18 GPM AND IS TREATED, THEN FILLS A 300 GALLON TANK. IT IS THEN PUMPED AT 45 GPM TO A 75 GALLON PRESSURE TANK. FROM THE PRESSURE TANK, IT IS DISPERSED TO THE BUILDING. THE 1" DOMESTIC COLD WATER PIPE GOING TO THE ADDITIONAL BUILDING COMES DIRECTLY OFF THE 75 GALLON PRESSURE TANK.

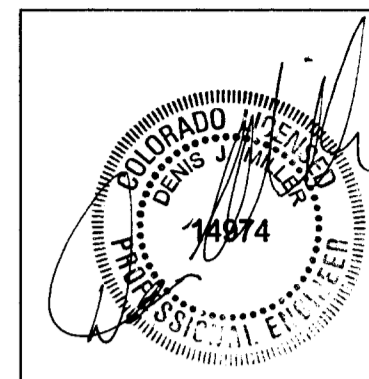


**1 LOWER LEVEL PLUMBING PLAN**  
SCALE: 1/4" = 1'-0"



ENGINEERING

5737 W 6TH AVE  
LAKEWOOD, CO 80214  
PHONE (303) 421-3208  
FAX (303) 421-3209



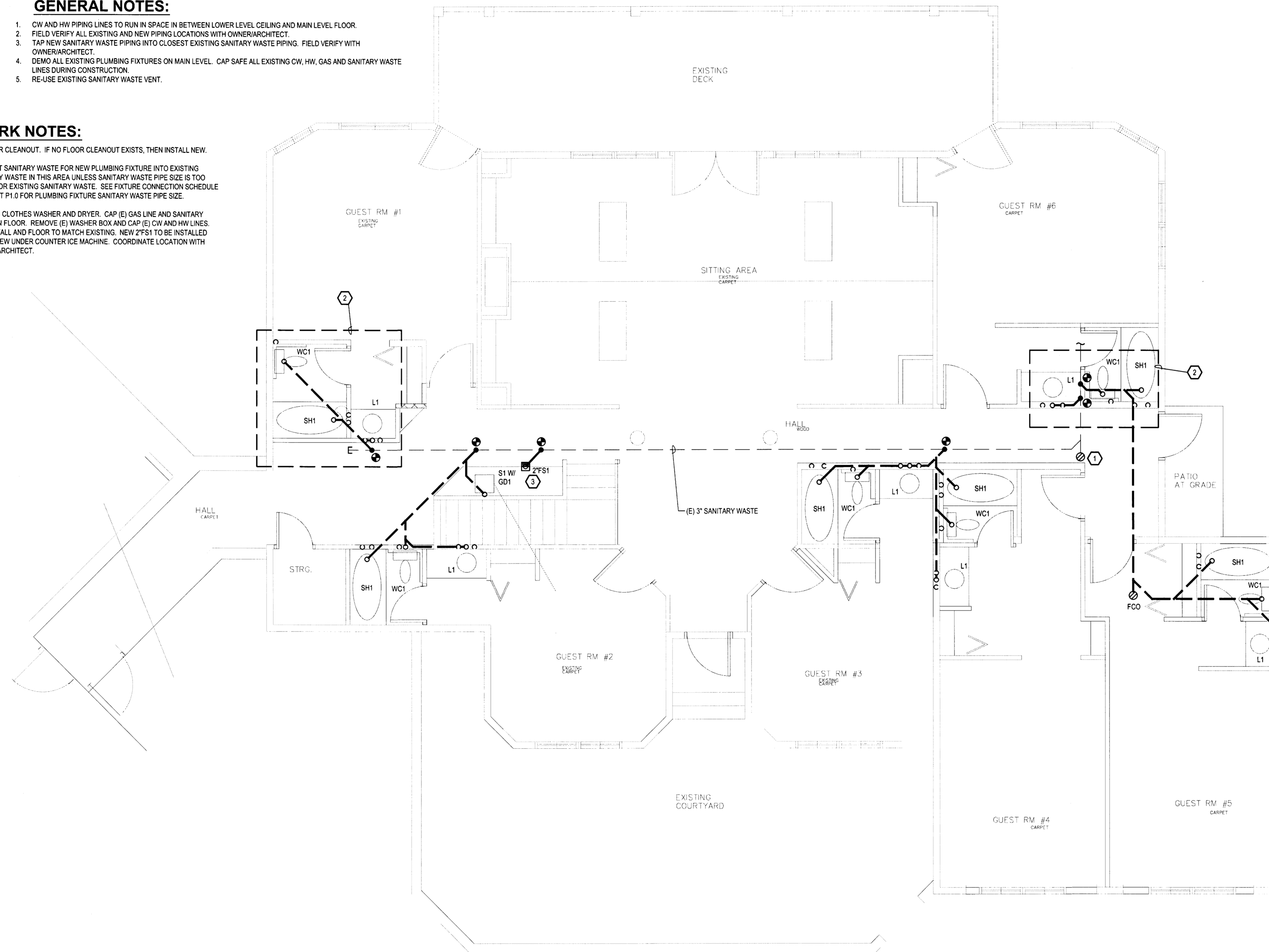
FEB 14 2011

**GENERAL NOTES:**

1. CW AND HW PIPING LINES TO RUN IN SPACE IN BETWEEN LOWER LEVEL CEILING AND MAIN LEVEL FLOOR.
2. FIELD VERIFY ALL EXISTING AND NEW PIPING LOCATIONS WITH OWNER/ARCHITECT.
3. TAP NEW SANITARY WASTE PIPING INTO CLOSEST EXISTING SANITARY WASTE PIPING. FIELD VERIFY WITH OWNER/ARCHITECT.
4. DEMO ALL EXISTING PLUMBING FIXTURES ON MAIN LEVEL. CAP SAFE ALL EXISTING CW, HW, GAS AND SANITARY WASTE LINES DURING CONSTRUCTION.
5. RE-USE EXISTING SANITARY WASTE VENT.

**WORK NOTES:**

- 1 (E) FLOOR CLEANOUT. IF NO FLOOR CLEANOUT EXISTS, THEN INSTALL NEW.
- 2 CONNECT SANITARY WASTE FOR NEW PLUMBING FIXTURE INTO EXISTING SANITARY WASTE IN THIS AREA UNLESS SANITARY WASTE PIPE SIZE IS TOO LARGE FOR EXISTING SANITARY WASTE. SEE FIXTURE CONNECTION SCHEDULE ON SHEET P1.0 FOR PLUMBING FIXTURE SANITARY WASTE PIPE SIZE.
- 3 DEMO (E) CLOTHES WASHER AND DRYER. CAP (E) GAS LINE AND SANITARY WASTE IN FLOOR. REMOVE (E) WASHER BOX AND CAP (E) CW AND HW LINES. PATCH WALL AND FLOOR TO MATCH EXISTING. NEW 2"FS1 TO BE INSTALLED UNDER NEW UNDER COUNTER ICE MACHINE. COORDINATE LOCATION WITH OWNER/ARCHITECT.



ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
lucyanarcht@aol.com

STRUCTURAL ENGINEER:  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structural\_engineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

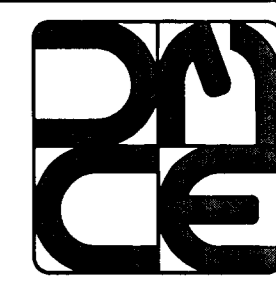
SHEET:  
P2.1

**1 MAIN LEVEL PLUMBING PLAN**  
SCALE: 1/4" = 1'-0"

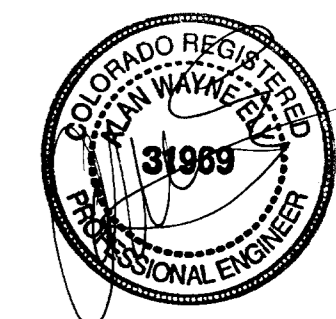
Released for Permit

APR 01 2011  
RBD Mech / Plbg





ENGINEERING  
5737 W. 6TH AVE.  
LAKEWOOD, CO 80214  
PHONE (303) 421-3208  
FAX (303) 421-3208



MAR 22 2011

ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
DENVER, CO 80118  
303-688-9211  
luckywrench@aol.com

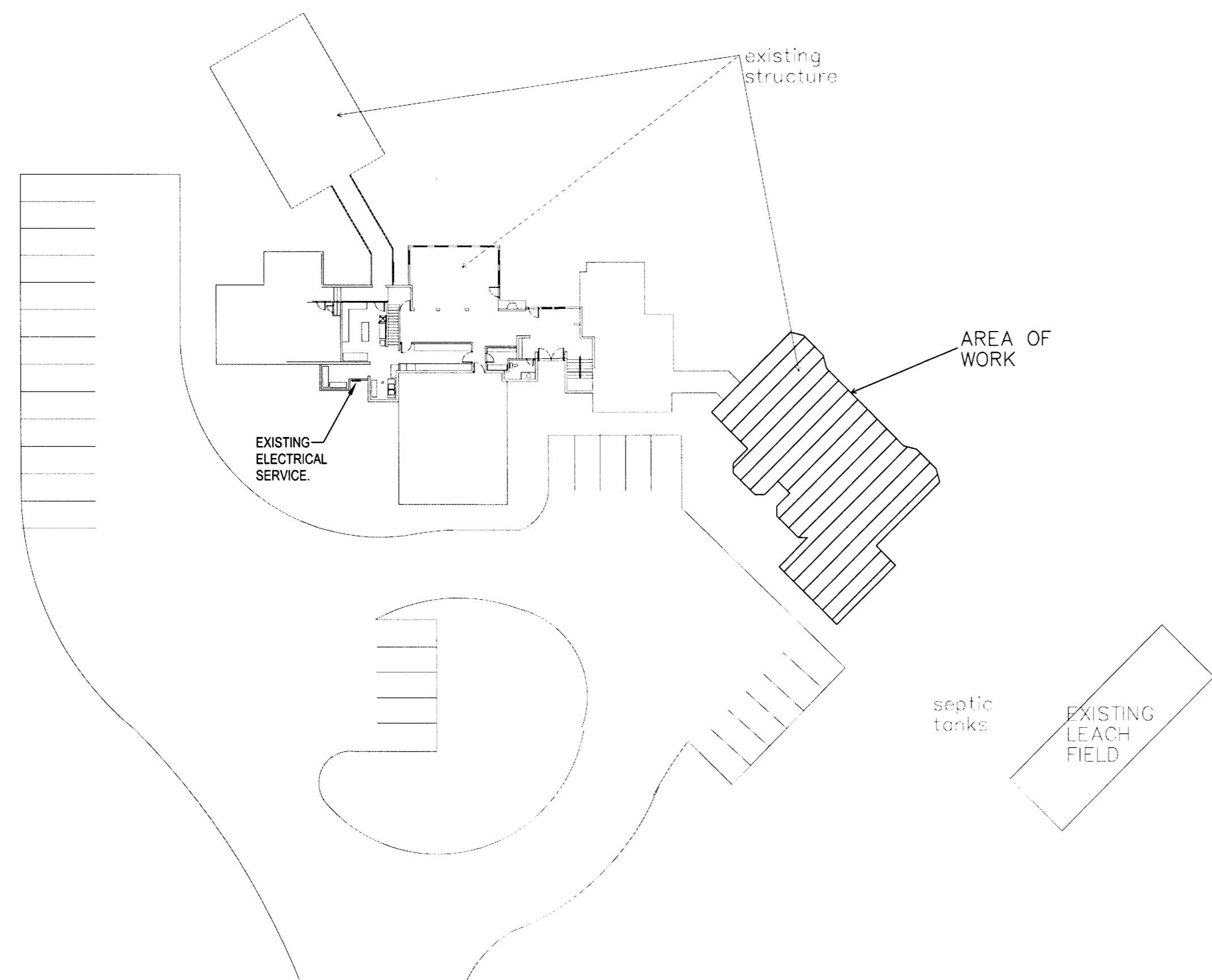
STRUCTURAL ENGINEER:  
ALAN STEFNICK P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

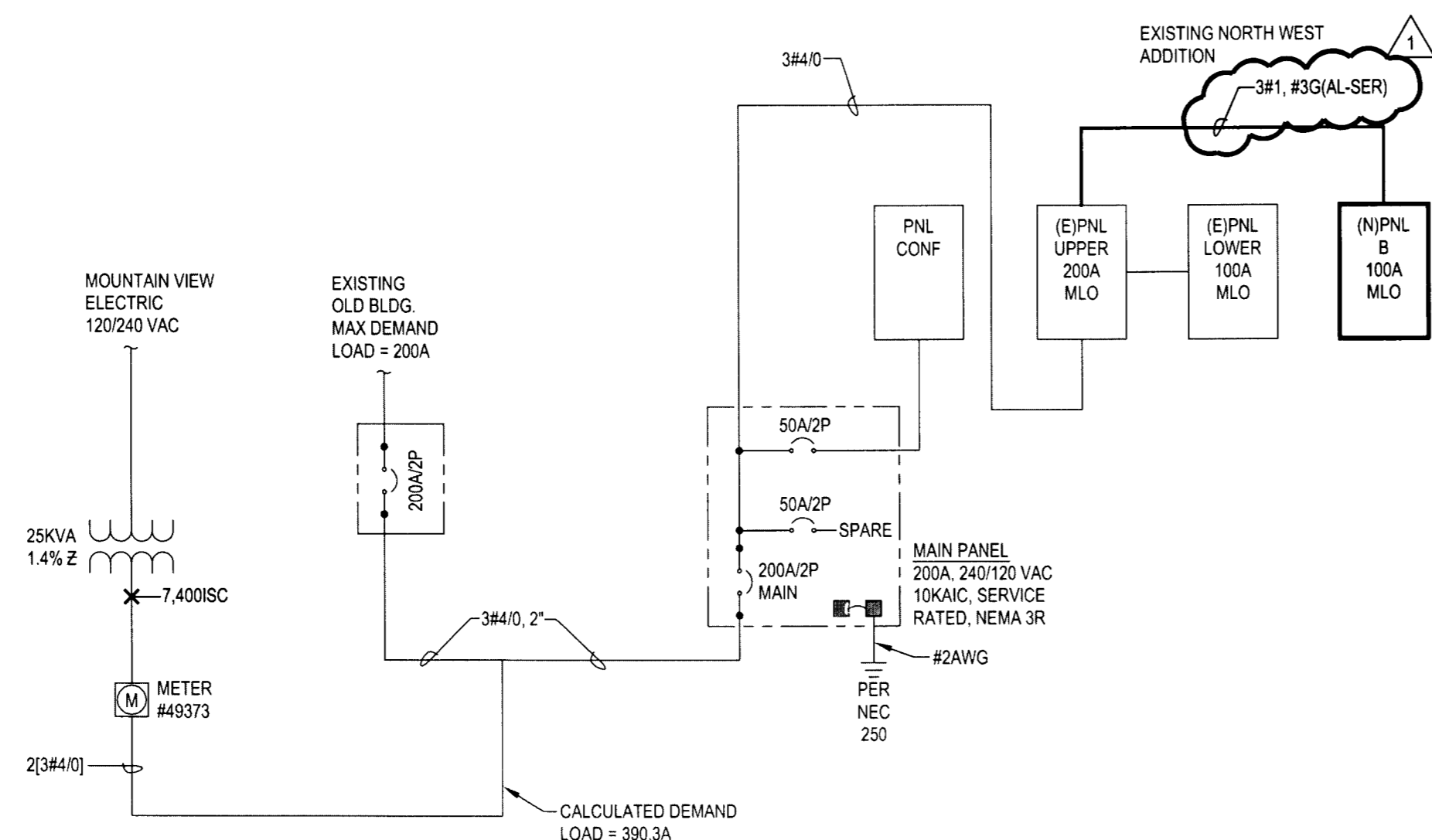
DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

BUILDING DEPT.  
COMMENTS.  
22 MARCH 2011

SHEET:  
E1.0



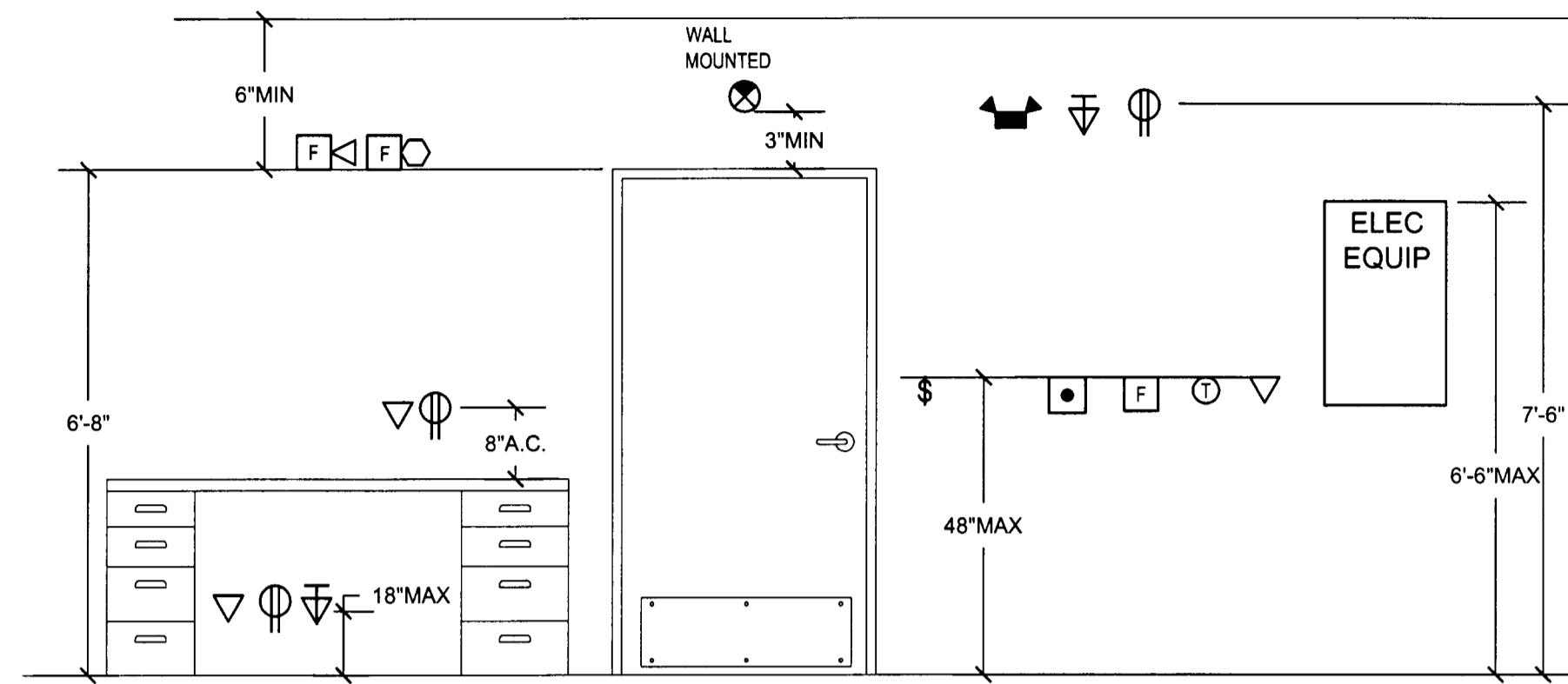
2 SITE PLAN  
NO SCALE



1 POWER ONE-LINE DIAGRAM  
NO SCALE

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION				
	<b>LIGHTING</b> DOWN LIGHT. ADJUSTABLE DOWN LIGHT. WALL WASHER. WALL MOUNTED FIXTURE. WALL MOUNTED FLUORESCENT FIXTURE. TRACK LIGHTING. 2x4 SURFACE FLUORESCENT FIXTURE. 2x4 RECESSED FLUORESCENT FIXTURE. SHADING INDICATES UNSWITCHED NIGHT LIGHT AND/OR EMERGENCY CIRCUIT. 2x2 SURFACE FLUORESCENT FIXTURE. SHADING INDICATES UNSWITCHED NIGHT LIGHT AND/OR EMERGENCY CIRCUIT. 2x2 RECESSED FLUORESCENT FIXTURE. SHADING INDICATES UNSWITCHED NIGHT LIGHT AND/OR EMERGENCY CIRCUIT. 1x4 SURFACE FLUORESCENT FIXTURE. 1x4 RECESSED FLUORESCENT FIXTURE. SHADING INDICATES UNSWITCHED NIGHT LIGHT AND/OR EMERGENCY CIRCUIT. FLUORESCENT STRIP LIGHT. SHADING INDICATES UNSWITCHED NIGHT LIGHT AND/OR EMERGENCY CIRCUIT. CEILING MOUNTED EXIT SIGNS, SHADING INDICATES FACE(S) (ARROW(S) AS INDICATED). WALL MOUNTED EXIT SIGNS, SHADING INDICATES FACE(S) (ARROW(S) AS INDICATED). EMERGENCY LIGHTING UNIT. COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT. POLE MOUNTED FIXTURE. PORCELAIN LAMP HOLDER, KEYLESS. FLOOD LIGHT. BOLLARD TYPE FIXTURE. DECORATIVE WALL SCENIC. DECORATIVE PENDANT. CHANDELIER.		<b>DEVICES</b> CEILING - JUNCTION BOX. FLOOR - JUNCTION BOX. WALL - JUNCTION BOX. PULL BOX. SURFACE METAL RACEWAY. MOTOR. NON-FUSED DISCONNECT SWITCH. FUSED DISCONNECT SWITCH. ENCLOSED CIRCUIT BREAKER. COMBINATION MAGNETIC MOTOR STARTER FUSED DISCONNECT SWITCH. MAGNETIC MOTOR STARTER WITH OVERLOADS. STARTER. WALL-DUPLEX RECEPTACLE MTD 18" AFF. UON. C = CLOCK; GFI = GROUND FAULT INTERRUPTING; ARI = ARC FAULT INTERRUPTING. FLOOR-DUPLEX RECEPTACLE MTD 18" AFF. UON. C = CLOCK; GFI = GROUND FAULT INTERRUPTING; ARI = ARC FAULT INTERRUPTING. CEILING-DUPLEX RECEPTACLE MTD 18" AFF. UON. C = CLOCK; GFI = GROUND FAULT INTERRUPTING; ARI = ARC FAULT INTERRUPTING. WALL-CONVENIENCE RECEPTACLE, SPLIT WIRED. FLOOR-CONVENIENCE RECEPTACLE, SPLIT WIRED. WALL-TWO DUPLEX RECEPTACLES IN TWO GANG BOX. FLOOR-TWO DUPLEX RECEPTACLES IN TWO GANG BOX. CEILING-TWO DUPLEX RECEPTACLES IN TWO GANG BOX. WALL-SPECIAL PURPOSE RECEPTACLE, CONFIGURATION NOTED. FLOOR-SPECIAL PURPOSE RECEPTACLE, CONFIGURATION NOTED. CEILING-SPECIAL PURPOSE RECEPTACLE, CONFIGURATION NOTED. WALL-FURNITURE SYSTEM POWER FEED. FURNITURE SYSTEM POWER FEED. FURNITURE SYSTEM TELE/DATA FEED. FLOOR MOUNTED COMBO POWER / TELE / DATA OUTLET. FLOOR - TELEPHONE OUTLET. WALL - TELEPHONE OUTLET MTD 18" AFF. UON. FLOOR - DATA OUTLET. WALL - DATA OUTLET MTD 18" AFF. UON. FLOOR - COMBINATION TELEPHONE DATA MTD 18" AFF. UON. WALL - COMBINATION TELEPHONE DATA MTD 18" AFF. UON. WALL-COAXIAL CABLE OUTLET MTD 18" AFF. UON. WALL-COMBINATION TELEPHONE DATA COAXIAL OUTLET MTD 18" AFF. UON. FLOOR FURNITURE FEED - POWER FLUSH MOUNT. FLOOR FURNITURE FEED - TELE / DATA FLUSH MOUNT. WALL FURNITURE FEED - POWER FLUSH MOUNT. WALL FURNITURE FEED - TELE / DATA FLUSH MOUNT. WALL - OCCUPANCY SENSOR CEILING - OCCUPANCY SENSOR WALL - PHOTOELECTRIC SENSOR CEILING - PHOTOELECTRIC SENSOR VARIABLE FREQUENCY DRIVE. AUTOMATIC TRANSFER SWITCH. SINGLE POLE SWITCH, MTD 46" AFF. UON. SUBSCRIPT INDICATES SWITCHING LEG. TWO-POLE SWITCH. THREE-WAY SWITCH. FOUR-WAY SWITCH.		<b>DISTRIBUTION / RACEWAY</b> DIMMER SWITCH. PILOT LIGHT SWITCH. KEY OPERATED SWITCH. LOW VOLTAGE SWITCH. MOTOR SWITCH. MOMENTARY CONTACT SWITCH. OCCUPANCY SENSOR SWITCH. THERMAL OVERLOAD SWITCH. <b>DISTRIBUTION / RACEWAY</b> SWITCHGEAR / SWITCHBOARD. BRANCH CIRCUIT PANELBOARD. TRANSFORMER. CLOCK OUTLET. ELECTRO MAGNETIC DOOR LOCK. COMMUNICATION / DATA BACKBOARD. EXPOSED CONDUIT. CONDUIT CONCEALED IN WALL OR CEILING. CONDUIT CONCEALED IN FLOOR OR UNDERGROUND. RACEWAY TURNED TOWARD VIEWER. RACEWAY TURNED AWAY FROM VIEWER. BRANCH CIRCUIT HOMERUN. INDICATES #12AWG CONDUCTORS, PH = PHASE CONDUCTOR, G = GROUND, N = NEUTRAL, ND. CABLE TRAY. <b>ONE-LINE DIAGRAM</b> TRANSFORMER (# = KVA). TRANSFORMER WITH GROUND SECONDARY, KVA SIZE & VOLTAGE RATIO AS NOTED. POTENTIAL TRANSFORMER. CURRENT TRANSFORMER. DISCONNECT SWITCH. FUSE. FUSED DISCONNECT SWITCH, 3-POLE, 400 AMPERE RATED SWITCH WITH 350 AMPERE RATED FUSE. AMPERE FRAME. AUTOMATIC TRANSFER SWITCH. UTILITY METER. GROUND. GENERATOR. EQUIPMENT ENCLOSURE. SERVICE WEATHERHEAD. SHORT CIRCUIT CURRENT AVAILABLE AT POINT INDICATED. POWER QUALITY METER. TRANSIENT VOLTAGE SURGE SUPPRESSOR. GROUND FAULT CIRCUIT INTERRUPTER. FEEDER SCHEDULE. CONTACTS. OVERLOAD PROTECTION. LOAD CENTER.		<b>ABBREVIATIONS</b> A AMPERES AC ABOVE COUNTER AFCI ARC-FAULT CIRCUIT INTERRUPTED. AF AMPERE FRAME, AMPERE FUSE. AFF ABOVE FINISHED FLOOR. AFG ABOVE FINISHED GRADE. AIC AMPERES INTERRUPTING CAPACITY. ANN ANNUNCIATOR. AT AT AMPERE TRIP. ATS AUTOMATIC TRANSFER SWITCH. AWG AMERICAN WIRE GAUGE. C CONDUIT. CATV CABLE TELEVISION. CB CIRCUIT BREAKER. CCTV CLOSED CIRCUIT TELEVISION. E EXISTING. EC EMPTY CONDUIT. EM EMERGENCY. EMT ELECTRIC METALLIC TUBING. EP EXPLOSION PROOF. EPO EMERGENCY POWER OFF. EWC ELECTRIC WATER COOLER. FA FIRE ALARM. FACP FIRE ALARM CONTROL PANEL. G GROUND. GND GROUND. GFI GROUND FAULT INTERRUPTOR. HOA HAND / OFF / AUTOMATIC. IG ISOLATED GROUND. IMC INTERMEDIATE METAL CONDUIT. ISC SHORT CIRCUIT CURRENT. KAIC KILO-AMPERES INTERRUPTING CAPACITY. KCMIL THOUSAND CIRCULAR MILLIMETERS. MAX MAXIMUM. MCB MAIN CIRCUIT BREAKER. MCC MOTOR CONTROL CENTER. MCM THOUSAND CIRCULAR MILLIMETERS. MTD MOUNTED. MDC MAIN DISTRIBUTION CENTER. MINIMUM MINIMUM. MLO MAIN LUGS ONLY. NEC NATIONAL ELECTRIC CODE. N NEW. NIC NOT IN CONTRACT. NL NIGHT LIGHT. NC NORMALLY CLOSED. NO NORMALLY OPEN. NTS NOT TO SCALE. OC ON CENTER. OFCI OWNER FURNISHED, CONTRACTOR INSTALLED. OFOI OWNER FURNISHED, OWNER INSTALLED. PC PULLCHAIN. RSD RIGID STEEL. RL RELOCATE. RM REMOVE. RMS ROOT MEAN SQUARE. SB STANDBY. SC SPLIT CIRCUIT. SDP SUB-DISTRIBUTION PANEL. ST SHUNT TRIP. SYM SYMMETRICAL. TP TAMPER PROOF. TVSS TRANSIENT BOLTAGE SURGE SUPPRESSION. TYP TYPICAL. UNLESS OTHERWISE NOTED. V VOLTS. VFD VARIABLE FREQUENCY DRIVE. WTH WITH. W/O WITH-OUT. WP WEATHERPROOF. XFMR TRANSFORMER.  1 WORK NOTE REFERENCE. 1 WORK NOTE REFERENCE. ### MECHANICAL EQUIPMENT REFERENCE. ### MECHANICAL EQUIPMENT REFERENCE.  BOLD LINES INDICATE NEW OR RELOCATED EQUIPMENT. RELOCATED EQUIPMENT MAY INCLUDE "RL". SCREENED LINES INDICATE EXISTING EQUIPMENT TO REMAIN. DASHED LINES INDICATE FUTURE. SCREENED DASHED LINES INDICATE EQUIPMENT TO BE DEMOLISHED OR REMOVED.  NOTE: 1. NOT ALL SYMBOLS ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT. 2. ELEVATIONS INDICATED ON LEGEND ARE TO CENTER, UON.



**GENERAL NOTES:**

- DIMENSIONS ARE TO CENTER OF DEVICE WITH TRIM A U.O.N.
- ALL MOUNTING HEIGHTS SHALL CONFORM TO THE LATEST EDITION OF THE AMERICANS WITH DISABILITIES ACT, (ADA).

**1 DEVICE MOUNTING HEIGHT DETAIL**

NO SCALE

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MANUFACTURER	CATALOG #	VOLTAGE	LAMPING	VA	MOUNTING	NOTES	
A	6-INCH RECESSED CAN, IC RATED, MATCH EXISTING TRIM	OWNER SELECTED		120	(1) 25W CFL	31	RECESSED		
B	DECORATIVE VANITY FIXTURE	OWNER SELECTED		120	(3) 60W CFL	180	SURFACE/WALL		
C	DECORATIVE WALL SCONCE SITTING AREA/HALL	OWNER SELECTED		120	(1) 25W CFL	31	SURFACE/WALL		
D	DECORATIVE SURFACE DOME GUEST ROOMS	OWNER SELECTED		120	(3) 60W A19	180	CEILING		
E	DECORATIVE SURFACE DOME GUEST ROOMS	OWNER SELECTED		120	(2) 50W A19	120	CEILING		
F	6-INCH RECESSED CAN, IC RATED, FLAT OPAL LENS, POLYCARBONATE TRIM RING	OWNER SELECTED		120	(1) 60W A19		RECESSED		
G	SURFACE GLOBE	OWNER SELECTED		120	(1) 60W A19	120	CEILING		
EM	EMERGENCY LIGHT, LED, WHITE HOUSING, GREEN LETTERING, LEAD-CALCIUM BATTERY	LITHONIA	ELM2	120	INCLUDED	10	SURFACE/WALL		
X	EXIT SIGN, LED, WHITE HOUSING, GREEN LETTERING, NICKEL-CADMIUM BATTERY	LITHONIA	LGM	120	INCLUDED	10	SURFACE/WALL		

NOTES:  
 1. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE SYSTEM.  
 2. COORDINATE EXACT LOCATION OF FIXTURE WITH ARCHITECT.  
 3. MOUNTING HEIGHT PER ARCHITECT.

VOLTAGE: 240/120 AIC: 10000 ENCLOSURE: NEMA 1 PHASE: 2 BUS AMPACITY: 100A NEUTRAL: 100% GROUND: STD WIRE: 3 TERMINATION: 100 MOUNTING: SURFACE

CKT NO	DESCRIPTION	LOAD VA	TYPE	CKT BREAKER P	CKT BREAKER A	CKT BREAKER OPT	LOAD VA	DESCRIPTION	CKT NO
1	NW & SW BDRMS (E)			1	15	AFCI	1500	WASHER	2a
2									2b
3	NORTH & NW BDRMS (E)			1	15	AFCI	1500	DRYER	4a
4									4b
5	SOUTH & SW BDRMS (E)			1	15	AFCI		SPACE (E)	5a
6									5b
7a	SPACE (E)								7a
7b	SPACE (E)								7b
7c	SPACE (E)								7c
7d	SPACE (E)								7d
7e	SPACE (E)								7e
7f	SPACE (E)								7f
7g	SPACE (E)								7g
7h	SPACE (E)								7h
7i	SPACE (E)								7i
7j	SPACE (E)								7j
7k	SPACE (E)								7k
7l	SPACE (E)								7l
7m	SPACE (E)								7m
7n	SPACE (E)								7n
7o	SPACE (E)								7o
7p	SPACE (E)								7p
7q	SPACE (E)								7q
7r	SPACE (E)								7r
7s	SPACE (E)								7s
7t	SPACE (E)								7t
7u	SPACE (E)								7u
7v	SPACE (E)								7v
7w	SPACE (E)								7w
7x	SPACE (E)								7x
7y	SPACE (E)								7y
7z	SPACE (E)								7z

LOAD SUMMARY

LOAD	PHASE	L	R	H	M	MLRG	CM	K	S	N	D
LOADS	A	0	0	0	0	0	0	0	0	0	1.152
	B	0	0	0	0	0	0	0	0	0	1.152

CONNECTED (KVA) DEMAND FACTOR DEMAND (KVA)

LOAD TYPE	A	B	TOTAL	A	B	TOTAL
LIGHTING (L)	0.6	0.2	0.8	1.00	0.6	0.2
RECEPTACLE (R)	1.1	0.5	1.6	1.00	1.1	0.5
REC (>1000VA) (R)				0.50	0.0	0.0
HVAC (H)	3.0	3.0	6.0	0.80	2.4	4.8
LARGEST MOTOR (M)	0.1	0.0	0.1	1.25	0.1	0.0
REMAIN MOTOR (M)	0.0	0.0	0.0	1.00	0.0	0.0
KITCHEN LOADS (K)	0.0	0.0	0.0	0.65	0.0	0.0
SPECIFIC LOADS (S)	1.5	1.5	3.0	1.00	1.5	3.0
NONCOINCIDENTAL (N)	0.0	0.0	0.0	0.00	0.0	0.0
DWELLING (D)	1.2	1.2	2.3	0.50	0.6	1.2
TOTAL DEMAND (KVA)			6.2			11.4
TOTAL (A/PH)			51.7			47.5

NOTES:

VOLTAGE: 240/120 AIC: 10000 ENCLOSURE: NEMA3R PHASE: 2 BUS AMPACITY: 200A NEUTRAL: 100% GROUND: STD WIRE: 3 TERMINATION: 200A MCB MOUNTING: SURFACE

CKT NO	DESCRIPTION	LOAD VA	TYPE	CKT BREAKER P	CKT BREAKER A	CKT BREAKER OPT	LOAD VA	DESCRIPTION	CKT NO
1	CONF WING (E)			2	50		50	SPARE (E)	2
3									4
5	SPACE (E)								6
7	SPACE (E)								8

LOAD SUMMARY

LOAD	PHASE	L	R	H	M	MLRG	CM	K	S	N	D
(E)WEST ADDITION	A	1.60	3.87	10.28	0.05	0.05	0	0.5	11.50	2.4	2.73
(E)CONF CENTER	B	1.05	2.79	11.28	0.15	0.08	0	1.38	8.00	2.4	2.73
	A	1.52	1.08	2.05	0.53	0.53	0	0	0	0	0
	B	2.00	0.90	1.08	1.18	1.18	0	0	0.03	0	0

CONNECTED (KVA) DEMAND FACTOR DEMAND (KVA)

LOAD TYPE	A	B	TOTAL	A	B	TOTAL
LIGHTING (L)	3.1	3.1	6.2	0.80	2.5	2.4
RECEPTACLE (R)	5.0	3.7	8.6	1.00	5.0	3.7
REC (>1000VA) (R)				0.50	0.0	0.0
HVAC (H)	12.3	12.4	24.7	0.60	7.4	14.8
LARGEST MOTOR (M)	0.5	1.2	1.7	1.25	0.7	1.5
REMAIN MOTOR (M)	0.1	0.2	0.2	1.00	0.1	0.2
KITCHEN LOADS (K)	0.5	1.4	1.9	0.65	0.3	0.9
SPECIFIC LOADS (S)	11.5	8.0	19.5	0.50	5.8	4.0
NONCOINCIDENTAL (N)	2.4	2.4	4.8	0.00	0.0	0.0
DWELLING (D)	2.7	2.7	5.5	0.50	1.4	2.7
TOTAL DEMAND (KVA)			23.0			21.4
TOTAL (A/PH)			191.8			185.1

NOTES:

VOLTAGE: 240/120 AIC: 10000 ENCLOSURE: NEMA 1 PHASE: 2 BUS AMPACITY: 100A NEUTRAL: 100% GROUND: STD WIRE: 3 TERMINATION: 100A MLO MOUNTING: FLUSH

CKT NO	DESCRIPTION	LOAD VA	TYPE	CKT BREAKER P	CKT BREAKER A	CKT BREAKER OPT	LOAD VA	DESCRIPTION	CKT NO	
1	FHL-1A	1752	H	1	20	AFCI	15	1	GUEST RM #1	2
3	FHL-1B	1752	H	1	20	AFCI	20	1	GUEST RM #1 BATH	4
5	FHL-1C	1752	H	1	20	AFCI	15	1	GUEST RM #2	6
7	FHL-1D	1752	H	1	20	AFCI	20	1	GUEST RM #2 BATH	8
9	GUEST RM #5			1	15	AFCI	15	1	GUEST RM #3	10
11	GUEST RM #5 BATH			1	20		20	1	GUEST RM #3 BATH	12
13	BBR-1C, BBR-1D	1512	H	2	20	AFCI	15	1	GUEST RM #4	14
15	/	1512	H	/	/	/	20	1	GUEST RM #4 BATH	16
17	GUEST RM #6			1	15	AFCI	/	/	BBR-1A, BBR-1B	18
19	GUEST RM #6 BATH			1	20	AFCI	/	/	/	20
21	BBR-1E	756	H	2	20		20	1	COUNTER RECPS	22
23	/	756	H	/	/	/	15	1	REF RECOP	24
25	HALL/STORAGE	150	L	1	15		15	1	ICE RECOP	26
27	SPARE						15	1	GO RECOP	28
29	SPARE						20	1	SPARE	30
31	SPACE								SPACE	32
33	SPACE								SPACE	34
35	SPACE								SPACE	36
37	SPACE								SPACE	38
39	SPACE								SPACE	40
41	SPACE								SPACE	42

LOAD SUMMARY

LOADS	PHASE	L	R	H	M	MLRG	CM	K	S	N	D
LOADS	A	0	0	0	0	0	0	0	0	0	1.574
	B	0	0	0	0	0	0	0	0	0	1.574

CONNECTED (KVA) DEMAND FACTOR DEMAND (KVA)

LOAD TYPE	A	B	TOTAL	A	B	TOTAL
LIGHTING (L)	0.2	0.0	0.2	1.00	0.2	0.0
RECEPTACLE (R)	0.5	0.0	0.5	1.00	0.5	0.0
REC (>1000VA) (R)				0.50	0.0	0.0
HVAC (H)	7.3	7.3	14.6	0.80	5.8	5.8
LARGEST MOTOR (M)	0.0	0.1	0.1	1.25	0.0	0.1
REMAIN MOTOR (M)	0.0	0.1	0.1	1.00	0.0	0.1
KITCHEN LOADS (K)	0.5	1.4	1.9	0.90	0.5	1.2
SPECIFIC LOADS (S)	0.0	0.0	0.0	1.00	0.0	0.0
NONCOINCIDENTAL (N)	0.0	0.0	0.0	0.00	0.0	0.0
DWELLING (D)	1.6	1.6	3.1	0.50	0.8	1.6
TOTAL DEMAND (KVA)			7.8			15.8
TOTAL (A/PH)			64.6			65.7

NOTES:

VOLTAGE: 240/120 AIC: 10000 ENCLOSURE: NEMA 1 PHASE: 2 BUS AMPACITY: 200A NEUTRAL: 100% GROUND: STD WIRE: 3 TERMINATION: 200A MLO MOUNTING: SURFACE

CKT NO	DESCRIPTION	LOAD VA	TYPE	CKT BREAKER P	CKT BREAKER A	CKT BREAKER OPT	LOAD VA	DESCRIPTION	CKT NO	
1	LOWER PNL (E)			2	100		20	1	UP WASHER (E)	2a
0	/						20	1	BSMT WASHER (E)	2b
3	/						100	2	PNL B	4a
0	/								PNL B	4b
5a	SPARE									5a
5b	STORAGE PNL (E)	2820	N, L, R	1	15					5b
7a	/	2640	N, L, R	/	/	/				7a
7b	BSMT DRYER (E)	2500	S	2	30					7b
9a	/	2500	S	/	/	/				9a
9b	UPPER DRYER (E)	2500	S	2	30					9b
11a	/	2500	S	/	/	/				11a
11b	SPARE									11b
13a	/									13a
13b	ENTERTAIN MASTER BATH (E)			1	15					13b
15a	GAR IN KIT HALL NOOK (E)			1	15					15a
15b	SPARE (E)	1980	L, R	1	15					15b
17a	ENTRY STUDY MSTR CLOST (E)	435	L, R	1	15					17a
17b	SPARE (E)			1	15					17b
19a	MASTER BDRM SD OUT DECK (E)			1	15					19a
19b	SPACE (E)	1320	L, R							19b

LOAD SUMMARY

LOAD	PHASE	L	R	H
------	-------	---	---	---

SECTION 26 05 00  
ELECTRICAL

PART 1 - GENERAL

- 1.01 THIS SECTION COVERS ALL ELECTRICAL INCLUDING RACEWAYS, BUILDING WIRE AND CONNECTORS, SUPPORTING DEVICES FOR ELECTRICAL COMPONENTS, ELECTRICAL IDENTIFICATION, ELECTRICITY-METERING COMPONENTS, GROUNDING, LOADCENTERS, SINGLE AND DUPLEX RECEPTACLES, GROUND-FAULT CIRCUIT INTERRUPTERS, SINGLE- AND DOUBLE-POLE SNAP SWITCHES AND DIMMER SWITCHES, DEVICE WALL PLATES, FUSIBLE AND NON-FUSIBLE SWITCHES, SINGLE-STATION SMOKE DETECTORS, ELECTRICAL DEMOLITION, CUTTING AND PATCHING FOR ELECTRICAL CONSTRUCTION, AND TOUCHUP PAINTING.
- 1.02 SUBMITTALS: PROVIDE PRODUCT DATA FOR EACH TYPE OF PRODUCT INDICATED OR REQUIRED FOR CONSTRUCTION. SIX (6) COPIES OF EACH IN ONE SUBMITTAL WITHIN 10 DAYS OF SIGNING CONTRACT. CLEARLY NOTE ANY DEVIATION BETWEEN SUBMITTED ITEMS AND SPECIFIED ITEMS ON THE COVER SHEET OF THE SUBMITTAL. FAILURE TO SUBMIT MAY CAUSE SPECIFIED ITEMS TO BE REJECTED OR REPLACED AT CONTRACTORS EXPENSE.
- 1.03 QUALITY ASSURANCE: ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE. COMPLY WITH NFPA 70, UL 467, IEEE C 57.12.91 AND NEMA PB 1. OBTAIN EACH TYPE OF ELECTRICAL EQUIPMENT FROM A SINGLE MANUFACTURER.
- 1.04 COORDINATION: COORDINATE ELECTRICAL SERVICE CONNECTIONS TO COMPONENTS FURNISHED BY UTILITY COMPANIES. RECEPTACLES FOR OWNER-FURNISHED EQUIPMENT: MATCH PLUG CONFIGURATIONS. COORDINATE LAYOUT AND INSTALLATION OF CEILING-MOUNTED DEVICES WITH OTHER CONSTRUCTION THAT PENETRATES CEILINGS OR IS SUPPORTED BY THEM, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT, SMOKE DETECTORS, AND PARTITION ASSEMBLIES. CAST ANCHOR-BOLT INSERTS INTO BASES. COORDINATE INSTALLATION OF WALL-MOUNTING AND STRUCTURE-HANGING SUPPORTS. PROVIDE PROPER WORKING CLEARANCES. CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, PLUMBING, AND OTHER DRAWINGS FOR ADDITIONAL INFORMATION PERTAINING TO ELECTRICAL WORK AND SHALL COORDINATE THEIR WORK WITH THE WORK OF OTHER TRADES.
- 1.05 CODES: ALL WORK AND MATERIALS SHALL CONFORM TO, AND BE IN STRICT ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL AND LOCAL ELECTRICAL CODES, OSHA, AND THE LIFE SAFETY CODES. CONTRACTOR SHALL VERIFY LOCAL CODE REQUIREMENTS AND SHALL INCLUDE ALL COSTS FOR COMPLETE COMPLIANCE WITH THE SAME.
- 1.06 CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAYING FEES.
- 1.07 VISIT SITE AND ASCERTAIN EXISTING CONDITIONS PRIOR TO BID. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS PRIOR TO THE PURCHASE OF ANY MATERIALS AND COMMENCEMENT OF ANY WORK AND IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES FOR RESOLUTION.
- 1.08 THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO CONVEY EXACT LOCATIONS OR SIZES OF EQUIPMENT. EXACT LOCATIONS ARE TO BE DETERMINED BY ACTUAL MEASUREMENTS AT THE BUILDING. THE CONTRACTOR SHALL REFER TO SHOP DRAWINGS TO DETERMINE ACTUAL LAYOUT AND SIZES OF EQUIPMENT. ANY CIRCUIT ROUTING SHOWN ON DRAWINGS IS DIAGRAMMATIC AND INTENDED TO INDICATE APPROXIMATE ROUTINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ACTUAL ROUTING OF ALL CIRCUITS REQUIRED, U.O.N.
- 1.09 EXTRA COSTS OR CHANGES ALLOWED ONLY IF APPROVED IN WRITING BY ENGINEER WITH DOLLAR AMOUNT PRIOR TO ORDERING. NO EXTENSIONS OF COMPLETION TIME ALLOWED WITHOUT WRITTEN AUTHORIZATION.
- 1.10 GUARANTEE ALL LABOR AND EQUIPMENT FOR ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER.

PART 2 - PRODUCTS

2.01 RACEWAYS

- A. EMT: ANSI C80.3, ZINC-COATED STEEL, WITH SET-SCREW OR COMPRESSION FITTINGS.  
B. FMC: ZINC-COATED STEEL.  
C. IMC: ANSI C80.6, ZINC-COATED STEEL, WITH THREADED FITTINGS.  
D. LFMC: ZINC-COATED STEEL WITH SUNLIGHT-RESISTANT AND MINERAL-OIL-RESISTANT PLASTIC JACKET.  
E. RNC: NEMA TC 2, SCHEDULE 40 PVC, WITH NEMA TC3 FITTINGS.

- 2.02 CONDUCTORS: ALUMINUM AND COPPER CONDUCTORS COMPLY WITH NEMA WC70. CONDUCTOR INSULATION COMPLY WITH NEMA WC70 FOR TYPES THHN-THWN, USE, AND SO.  
A. MULTICONDUCTOR CABLE SHALL COMPLY WITH NEMA WC70 FOR ARMORED CABLE, TYPE AC, METAL-CLAD CABLE, TYPE MC, NONMETALLIC-SHEATHED CABLE, TYPE NM, TYPE SO, AND TYPE USE WITH GROUND WIRE.

2.03 SUPPORTING DEVICES

- A. MATERIAL: COLD-FORMED STEEL, WITH CORROSION-RESISTANT COATING ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. METAL ITEMS FOR USE OUTDOORS OR IN DAMP LOCATIONS SHALL BE HOT-DIP GALVANIZED STEEL.  
B. RACEWAY AND CABLE SUPPORTS: MANUFACTURED CLEVIS HANGERS, RISER CLAMPS, STRAPS, THREADED C-CLAMPS WITH RETAINERS, CEILING TRAPEZE HANGERS, WALL BRACKETS, AND SPRING-STEEL CLAMPS OR CLICK-TYPE HANGERS.

2.04 ELECTRICAL IDENTIFICATION

- A. COLORED ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES, AND CABLES: SELF-ADHESIVE VINYL TAPE, NOT LESS THAN 1 INCH WIDE BY 3 MILS THICK.

2.05 GROUNDING CONDUCTORS, CONNECTORS, AND ELECTRODES

- A. COMPLY WITH IEEE 837 AND UL 467, LISTED FOR USE FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND CONNECTED ITEMS.  
B. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.  
C. GROUNDING ELECTRODE CONDUCTORS: STRANDED CABLE.  
D. UNDERGROUND CONDUCTORS: BARE, STRANDED, UNLESS OTHERWISE INDICATED.  
E. GROUND RODS: COPPER-CLAD STEEL.

2.06 LOADCENTERS

- A. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. PROVIDE DIRECTORY CARD WITH TRANSPARENT PROTECTIVE COVER, MOUNTED IN METAL FRAME, INSIDE LOADCENTER DOOR. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION. OUTDOOR LOCATIONS SHALL BE NEMA 250, TYPE 3R.  
B. PHASE AND GROUND BUSES: MATERIAL SHALL BE TIN-PLATED ALUMINUM. EQUIPMENT GROUND BUS SHALL BE ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUND CONDUCTORS, BONDED TO BOX. GROUND BUS ADEQUATE FOR BRANCH-CIRCUIT EQUIPMENT GROUND CONDUCTORS, INSULATED FROM BOX.  
C. RATED FOR SERIES-CONNECTED SYSTEM WITH INTEGRAL OR REMOTE UPSTREAM OVERCURRENT PROTECTIVE DEVICES AND LABELED BY AN NRTL. INCLUDE SIZE AND TYPE OF ALLOWABLE UPSTREAM AND BRANCH DEVICES, LISTED AND LABELED FOR SERIES-CONNECTED SHORT-CIRCUIT RATING BY AN NRTL.  
D. MAIN LUG ONLY. BRANCH OVERCURRENT PROTECTIVE DEVICES SHALL BE PLUG-IN CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.  
E. MOLDED-CASE CIRCUIT-BREAKERS COMPLY WITH UL 489, WITH SERIES-CONNECTED RATING TO MEET AVAILABLE FAULT CURRENTS:  
1. APPLICATION LISTING: APPROPRIATE FOR APPLICATION: TYPE SWD FOR SWITCHING FLUORESCENT LIGHTING LOADS, TYPE HACR FOR HEATING, AIR-CONDITIONING, AND REFRIGERATING EQUIPMENT.  
2. GROUND-FAULT EQUIPMENT PROTECTION (GFEPE) CIRCUIT BREAKERS: CLASS B GROUND-FAULT PROTECTION (30-MA TRIP).  
3. ARC-FAULT CIRCUIT INTERRUPTER (AFCI) CIRCUIT BREAKERS: COMPLY WITH UL 1699, 120/240V, SINGLE-POLE CONFIGURATION.

2.07 RECEPTACLES

- A. CONVENIENCE RECEPTACLES, 125V, 20A. COMPLY WITH NEMA WD1, NEMA WD6, CONFIGURATION 5-20R, AND UL 498.  
B. DUPLEX GFCI CONVENIENCE RECEPTACLES, 125 V, 20A. STRAIGHT BLADE, FEED THROUGH TYPE. COMPLY WITH NEMA WD1, NEMA WD6, UL 498, AND UL 943, CLASS A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED.

2.08 SWITCHES

- A. SINGLE- AND DOUBLE-POLE SWITCHES: COMPLY WITH DSCC W-C-896F AND UL 20, GENERAL-DUTY GRADE, QUIET TYPE.  
B. DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON/OFF SWITCHES AND AUDIBLE FREQUENCY AND EMIRFI FILTERS. CONTINUOUSLY ADJUSTABLE SLIDER; WITH SINGLE-POLE OR THREE-WAY SWITCHING TO SUIT CONNECTIONS.

2.09 COMMUNICATION OUTLETS

- A. TELEPHONE OUTLET: SINGLE RJ-45 JACK FOR TERMINATING 100-OHM, BALANCED, FOUR-PAIR UTP; TIA/EIA-568-B.1; COMPLYING WITH CATEGORY 5E. COMPLY WITH UL 1983.  
B. COMBINATION TV AND TELEPHONE OUTLET: SINGLE RJ-45 JACK FOR 100-OHM, BALANCED, FOUR-PAIR UTP; TIA/EIA-568-B.1; COMPLYING WITH CATEGORY 5E; AND ONE TYPE F COAXIAL CABLE CONNECTOR.

2.10 WALL PLATES

- A. FINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC.  
B. MATERIAL FOR UNFINISHED SPACES: GALVANIZED STEEL.  
C. MATERIAL FOR WET LOCATIONS: THERMOPLASTIC WITH SPRING-LOADED LIFT COVER, AND LISTED AND LABELED FOR USE IN "WET LOCATIONS".  
D. SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.

2.11 FINISHES: MATCH EXISTING.

2.12 FUSIBLE AND NONFUSIBLE SWITCHES

- A. FUSIBLE SWITCH, 600 A AND SMALLER: NEMA KS 1, TYPE GD, WITH CLIPS OR BOLT PADS TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.  
B. NONFUSIBLE SWITCH, 600 A AND SMALLER: NEMA KS 1, TYPE GD, LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT TWO PADLOCKS, AND INTERLOCKED WITH COVER IN CLOSED POSITION.

- 2.13 SINGLE STATION SMOKE DETECTORS: OMPLY WITH UL217; SUITABLE FOR NFPA 101, RESIDENTIAL OCCUPANCIES; OPERATING AT 120V WITH 90V DC BATTERY AS THE SECONDARY POWER SOURCE. PROVIDE WITH "LOW" BATTERY CHIRPING-SOUND DEVICE. PIEZOELECTRIC SOUNDER RATED AT 90 DBA AT 10 FEET ACCORDING TO UL464. PUSH-TO-TEST SWITCH. ALLOW TANDEM ONNETION OF NUMBER OF INDICATED DETECTORS. ALARM ON ONE DETECTOR SHALL ACTUATE NOTIFICATION ON ALL CONNECTED DETECTORS. LED TYPE INDICATION OF POWER-ON STATUS.

- 2.14 TOUCHUP PAINT: EQUIPMENT MANUFACTURER'S PAINT SELECTED TO MATCH INSTALLED EQUIPMENT FINISH. FOR GALVANIZED SURFACES: ZINC-RICH PAINT RECOMMENDED BY ITEM MANUFACTURER.

PART 3 - EXECUTION

- 3.01 ELECTRICAL EQUIPMENT INSTALLATION: HEADROOM MAINTENANCE: IF MOUNTING HEIGHTS OR OTHER LOCATION CRITERIA ARE NOT INDICATED, ARRANGE AND INSTALL COMPONENTS AND EQUIPMENT TO PROVIDE THE MAXIMUM POSSIBLE HEADROOM. MATERIALS AND COMPONENTS: INSTALL LEVEL, PLUMB, AND PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, UNLESS OTHERWISE INDICATED. EQUIPMENT: INSTALL TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT FOR EASE OF DISCONNECTING, WITH MINIMUM INTERFERENCE WITH OTHER INSTALLATIONS.

3.02 RACEWAY APPLICATION

- A. USE THE FOLLOWING RACEWAYS FOR OUTDOOR INSTALLATIONS:  
1. EXPOSED OR CONCEALED: IMC.  
2. UNDERGROUND: RNC.  
3. CONNECTION TO VIBRATING EQUIPMENT: LFMC.  
4. BOXES AND ENCLOSURES: NEMA 250, TYPE 3R OR TYPE 4.  
B. USE THE FOLLOWING RACEWAYS FOR INDOOR INSTALLATIONS:  
1. EXPOSED OR CONCEALED: EMT.  
2. CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC.  
3. DAMP OR WET LOCATIONS: IMC.  
4. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, UNLESS OTHERWISE INDICATED.

3.03 RACEWAY AND CABLE INSTALLATION

- A. CONCEAL RACEWAYS AND CABLES, UNLESS OTHERWISE INDICATED, WITHIN FINISHED WALLS, CEILINGS, AND FLOORS.  
B. INSTALL RACEWAYS AND CABLES AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. LOCATE HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.  
C. USE TEMPORARY RACEWAY CAPS TO PREVENT FOREIGN MATTER FROM ENTERING.  
D. MAKE CONDUIT BENDS AND OFFSETS SO ID IS NOT REDUCED. KEEP LEGS OF BENDS IN THE SAME PLANE AND STRAIGHT LEGS OF OFFSETS PARALLEL, UNLESS OTHERWISE INDICATED.  
E. INSTALL RACEWAYS EMBEDDED IN SLABS IN MIDDLE THIRD OF SLAB THICKNESS WHERE PRACTICAL, AND LEAVE AT LEAST 1-INCH CONCRETE COVER.  
F. CONNECT MOTORS AND EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT WITH A MAXIMUM OF 72-INCH FLEXIBLE CONDUIT. INSTALL LFMC IN WET OR DAMP LOCATIONS.  
G. SET FLOOR BOXES LEVEL AND TRIM AFTER INSTALLATION TO FIT FLUSH TO FINISHED FLOOR SURFACE.

3.04 WIRING METHODS FOR POWER, LIGHTING, AND CONTROL CIRCUITS

- A. FEEDERS: COPPER FOR FEEDERS SMALLER THAN NO. 4 AWG; COPPER OR ALUMINUM FOR FEEDERS NO. 4 AWG AND LARGER. SOLID FOR NO. 10 AWG AND SMALLER, STRANDED FOR NO. 8 AWG AND LARGER.  
B. BRANCH CIRCUITS: COPPER: SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.  
C. SERVICE ENTRANCE: TYPE SE OR USE MULTICONDUCTOR CABLE.  
D. EXPOSED FEEDERS: MINERAL-INSULATED, METAL-SHEATHED CABLE, TYPE MI.  
E. FEEDERS CONCEALED IN CEILINGS, WALLS, PARTITIONS, AND CRAWLSPACES: MINERAL-INSULATED, METAL-SHEATHED CABLE, TYPE MI.  
F. FEEDERS CONCEALED IN CONCRETE, BELOW SLABS ON GRADE AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.  
G. EXPOSED BRANCH CIRCUITS AND BRANCH CIRCUITS CONCEALED IN CEILINGS, WLLS, AND PARTITIONS: NONMETALLIC-SHEATHED CABLE, TYPE NM.  
H. BRANCH CIRCUITS CONCEALED IN CONCRETE, BELOW SLABS ON GRADE, AND UNDERGROUND:  
1. COLOR CODE 240/120-V SYSTEM SECONDARY SERVICE, FEEDERS, AND BRANCH-CIRCUIT CONDUCTORS THROUGHOUT THE SECONDARY ELECTRICAL SYSTEM AS FOLLOWS:  
1. PHASE A: BLACK  
2. PHASE B: RED

3.05 GROUNDING APPLICATION

- A. USE ONLY COPPER CONDUCTORS FOR BOTH INSULATED AND BARE GROUNDING CONDUCTORS IN DIRECT CONTACT WITH EARTH, CONCRETE, MASONRY, CRUSHED STONE, AND SIMILAR MATERIALS.  
B. IN RACEWAYS, USE INSULATED EQUIPMENT GROUNDING CONDUCTORS.  
C. EQUIPMENT GROUNDING CONDUCTOR TERMINATIONS: USE BOLTED PRESSURE CLAMPS.  
D. UNDERGROUND GROUNDING CONDUCTORS: USE COPPER CONDUCTOR, NO. 20 AWG MINIMUM. BURY AT LEAST 24 INCHES BELOW GRADE.  
E. COMPLY WITH NFPA 70, ARTICLE 250, FOR TYPES, SIZES, AND QUANTITIES OF EQUIPMENT GROUNDING CONDUCTORS, UNLESS SPECIFIC TYPES, LARGER SIZES, OR MORE CONDUCTORS THAN REQUIRED BY NFPA 70 ARE INDICATED.  
F. INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND CIRCUITS.  
G. GROUND RODS: INSTALL AT LEAST ONE ROD. DRIVE GROUND ROD UNTIL TOPS ARE 2 INCHES BELOW FINISHED FLOOR OR FINAL GRADE, UNLESS OTHERWISE INDICATED. MAKE CONNECTIONS WITHOUT EXPOSING STEEL OR DAMAGING COPPER COATING.  
H. BONDING STRAPS AND JUMPERS: INSTALL SO VIBRATION BY EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS AND SUPPORTS IS NOT TRANSMITTED TO RIGIDLY MOUNTED EQUIPMENT. USE EXOTHERMIC-WELDED CONNECTORS FOR OUTDOOR LOCATIONS, UNLESS A DISCONNECT-TYPE CONNECTION IS REQUIRED, THEN, USE A BOLTED CLAMP. BOND STRAPS DIRECTLY TO THE BASIC STRUCTURE TAKING CARE NOT TO PENETRATE ANY ADJACENT PARTS. INSTALL STRAPS ONLY IN LOCATIONS ACCESSIBLE FOR MAINTENANCE.  
I. BOND INTERIOR METAL PIPING SYSTEMS AND METAL AIR DUCTS TO EQUIPMENT GROUNDING CONDUCTORS OF ASSOCIATED PUMPS, FANS, BLOWERS, ELECTRIC HEATERS, AND AIR CLEANERS. USE BRAIDED-TYPE BONDING STRAPS.  
J. MAKE CONNECTIONS SO GALVANIC ACTION OR ELECTROLYSIS POSSIBILITY IS MINIMIZED. SELECT CONNECTORS, CONNECTION HARDWARE, CONDUCTORS, AND CONNECTION METHODS SO METALS IN DIRECT CONTACT WILL BE GALVANICALLY COMPATIBLE.  
K. EQUIPMENT GROUNDING CONDUCTOR TERMINATIONS: FOR NO. 8 AWG AND LARGER, USE PRESSURE-TYPE GROUNDING LUGS. NO. 10 AWG AND SMALLER GROUNDING CONDUCTORS MAY BE TERMINATED WITH WINGED PRESSURE-TYPE CONNECTORS.  
L. NONCONTACT METAL RACEWAY TERMINATIONS: IF METALLIC RACEWAYS TERMINATE AT METAL HOUSINGS WITHOUT MECHANICAL AND ELECTRICAL CONNECTION TO HOUSING, TERMINATE EACH CONDUIT WITH A GROUNDING BUSHING. CONNECT GROUNDING BUSHINGS WITH A BARE GROUNDING CONDUCTOR TO GROUNDING BUS OR TERMINAL IN HOUSING. BOND ELECTRICALLY NONCONTINUOUS CONDUITS AT ENTRANCES AND EXITS WITH GROUNDING BUSHINGS AND BARE GROUNDING CONDUCTORS, UNLESS OTHERWISE INDICATED.

- 3.06 LOADCENTER INSTALLATION: INSTALL PANELBOARDS AND ACCESSORIES ACCORDING TO NEMA PB 1.1. MOUNT TOP OF TRIM 74 INCHES ABOVE FINISHED FLOOR, UNLESS OTHERWISE INDICATED. STUB FOUR 1-INCH EMPTY CONDUITS FROM PANELBOARD INTO ACCESSIBLE CEILING SPACE OR SPACE DESIGNATED TO BE CEILING SPACE IN THE FUTURE. STUB FOUR 1-INCH EMPTY CONDUITS INTO RAISED FLOOR SPACE OR BELOW SLAB NOT ON GRADE. ARRANGE CONDUCTORS IN GUTTERS INTO GROUPS AND BUNDLE AND WRAP WITH WIRE TIES.

3.07 WIRING DEVICES INSTALLATION

- A. INSTALL DEVICES AND ASSEMBLIES LEVEL, PLUMB, AND SQUARE WITH BUILDING LINES. UNLESS OTHERWISE INDICATED, MOUNT FLUSH, WITH LONG DIMENSION VERTICAL, AND WITH GROUNDING TERMINAL OF RECEPTACLES ON TOP. GROUP ADJACENT SWITCHES UNDER SINGLE, MULTIGANG WALL PLATES.  
B. INSTALL WALL DIMMERS TO ACHIEVE INDICATED RATING AFTER DERATING FOR GANGLING ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL UNSHARED NEUTRAL CONDUCTORS ON LINE AND LOAD SIDE OF DIMMERS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.  
C. REMOVE WALL PLATES AND PROTECT DEVICES AND ASSEMBLIES DURING PAINTING.

- 3.08 ENCLOSED SWITCH INSTALLATION: COMPLY WITH APPLICABLE PORTIONS OF NECA 1, NEMA PB 1.1, AND NEMA PB 2.1 FOR INSTALLATION OF ENCLOSED SWITCHES. MOUNT INDIVIDUAL WALL-MOUNTING SWITCHES WITH TOPS AT UNIFORM HEIGHT, UNLESS OTHERWISE INDICATED.

- 3.09 SINGLE-STATION SMOKE DETECTOR: DETECTORS SHALL E CONNECTED SO THAT THE OPERATION OF ANY SMOKE ALARM CAUSES THE ALARM IN ALL SMAKE ALARMS TO SOUND.

3.10 DEMOLITION

- A. PROTECT EXISTING ELECTRICAL EQUIPMENT AND INSTALLATIONS INDICATED TO REMAIN. IF DAMAGED OR DISTURBED IN THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.  
B. ACCESSIBLE WORK: REMOVE EXPOSED ELECTRICAL EQUIPMENT AND INSTALLATIONS, INDICATED TO BE DEMOLISHED, IN THEIR ENTIRETY.  
C. ABANDONED WORK: CUT AND REMOVE BURIED RACEWAY AND WIRING, INDICATED TO BE ABANDONED IN PLACE, 2 INCHES BELOW THE SURFACE OF ADJACENT CONSTRUCTION. CAP RACEWAYS AND PATCH SURFACE TO MATCH EXISTING FINISH.  
D. REMOVE DEMOLISHED MATERIAL FROM PROJECT SITE.  
E. REMOVE, STORE, CLEAN, REINSTALL, RECONNECT, AND MAKE OPERATIONAL COMPONENTS INDICATED FOR RELOCATION.

- 3.11 CUTTING AND PATCHING: CUT, CHANNEL, CHASE, AND DRILL FLOORS, WALLS, PARTITIONS, CEILINGS, AND OTHER SURFACES REQUIRED TO PERMIT ELECTRICAL INSTALLATIONS. PERFORM CUTTING BY SKILLED MECHANICS OF TRADES INVOLVED. REPAIR AND REFINISH DISTURBED FINISH MATERIALS AND OTHER SURFACES TO MATCH ADJACENT UNDISTURBED SURFACES. INSTALL NEW FIREPROOFING WHERE EXISTING FIRESTOPPING HAS BEEN DISTURBED. REPAIR AND REFINISH MATERIALS AND OTHER SURFACES BY SKILLED MECHANICS OF TRADES INVOLVED.

3.12 FIELD QUALITY CONTROL

- A. INSPECT INSTALLED COMPONENTS FOR DAMAGE AND FAULTY WORK.  
B. TEST CONTINUITY OF EACH CIRCUIT.  
C. AFTER INSTALLING WIRING DEVICES AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. REMOVE MALFUNCTIONING UNITS, REPLACE WITH NEW UNITS, AND RETEST AS SPECIFIED ABOVE.

3.13 REFINISHING AND TOUCHUP PAINTING: REFINISH AND TOUCH UP PAINT.

- 3.14 CLEANING AND PROTECTION: ON COMPLETION OF INSTALLATION, INSPECT INTERIOR AND EXTERIORS OF EQUIPMENT. REMOVE BURRS, DIRT, PAINT SPOTS, AND CONSTRUCTION DEBRIS. VACUUM DIRT AND DEBRIS; DO NOT USE COMPRESSED AIR TO ASSIST IN CLEANING. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATION AT TIME OF SUBSTANTIAL COMPLETION.



FEB 14

ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
lucykranch@aol.com

STRUCTURAL ENGINEER:  
ALAN STERNBERG  
15741 E. 37th AVE. #107  
STRUCTURAL, INC.  
303-825-1571  
structural.engineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

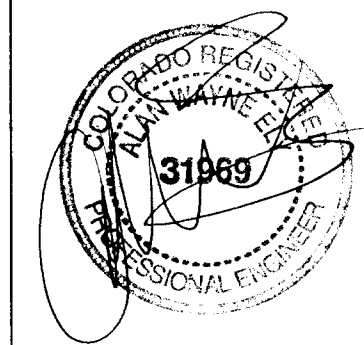
Released for Permit  
Apr 13 2011  
SLE  
RBD Electrical

SHEET:  
E1.2

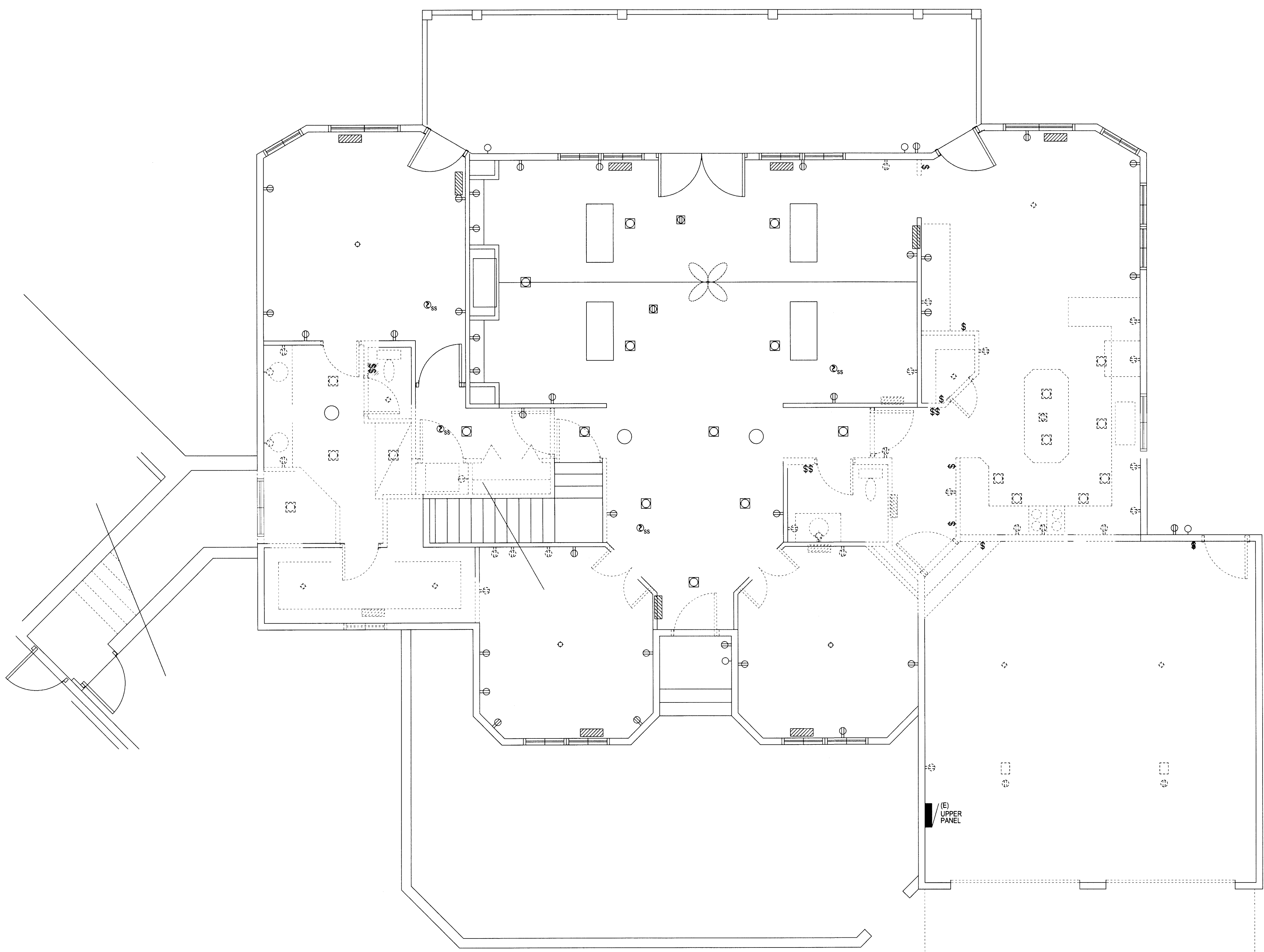




**ENGINEERING**  
 5737 W 6TH AVE.  
 LAKEWOOD, CO 80214  
 PHONE (303) 421-3208  
 FAX (303) 421-3209



FEB 14



ARCHITECT:  
 DOUGLAS J. EICHELBERGER  
 12345 SPRING VALLEY RD.  
 LARKSPUR, CO. 80118  
 303-686-5218  
 dje@architect.com

STRUCTURAL ENGINEER:  
 ALEX STERNESKI  
 MOUNTAIN STATES STRUCTURAL, INC.  
 303-825-1572  
 structuralengineer@yahoo.com

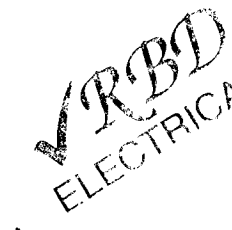
**THE HIDEAWAY  
 RETREAT CENTER  
 3805 WALKER ROAD  
 COLO. SPRINGS, CO.**

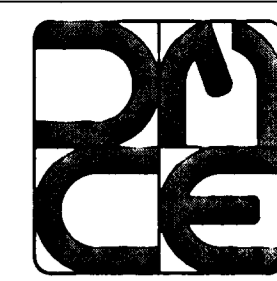
DATE:  
 PERMIT AND  
 CONSTRUCTION  
 14 FEBRUARY 2011

SHEET:  
**E2.0**

**1 ELECTRICAL DEMO PLAN**  
 SCALE: 1/4" = 1'-0"

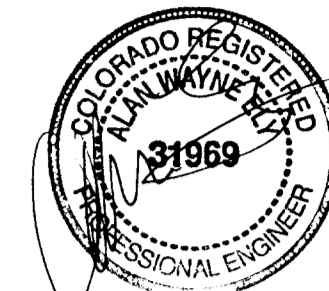
Released for Permit  
 Mgr. T. S. 7/011  
 SLE  
 RBD Electrical





ENGINEERING

5737 W 6TH AVE.  
LAKEWOOD, CO 80214  
PHONE (303) 421-3208  
FAX (303) 421-3209



APR 13

ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
MOUNTAIN VIEW, CO 80116  
303.688.9211  
luckybranch@aol.com

STRUCTURAL ENGINEER:  
ALAN WYNN P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

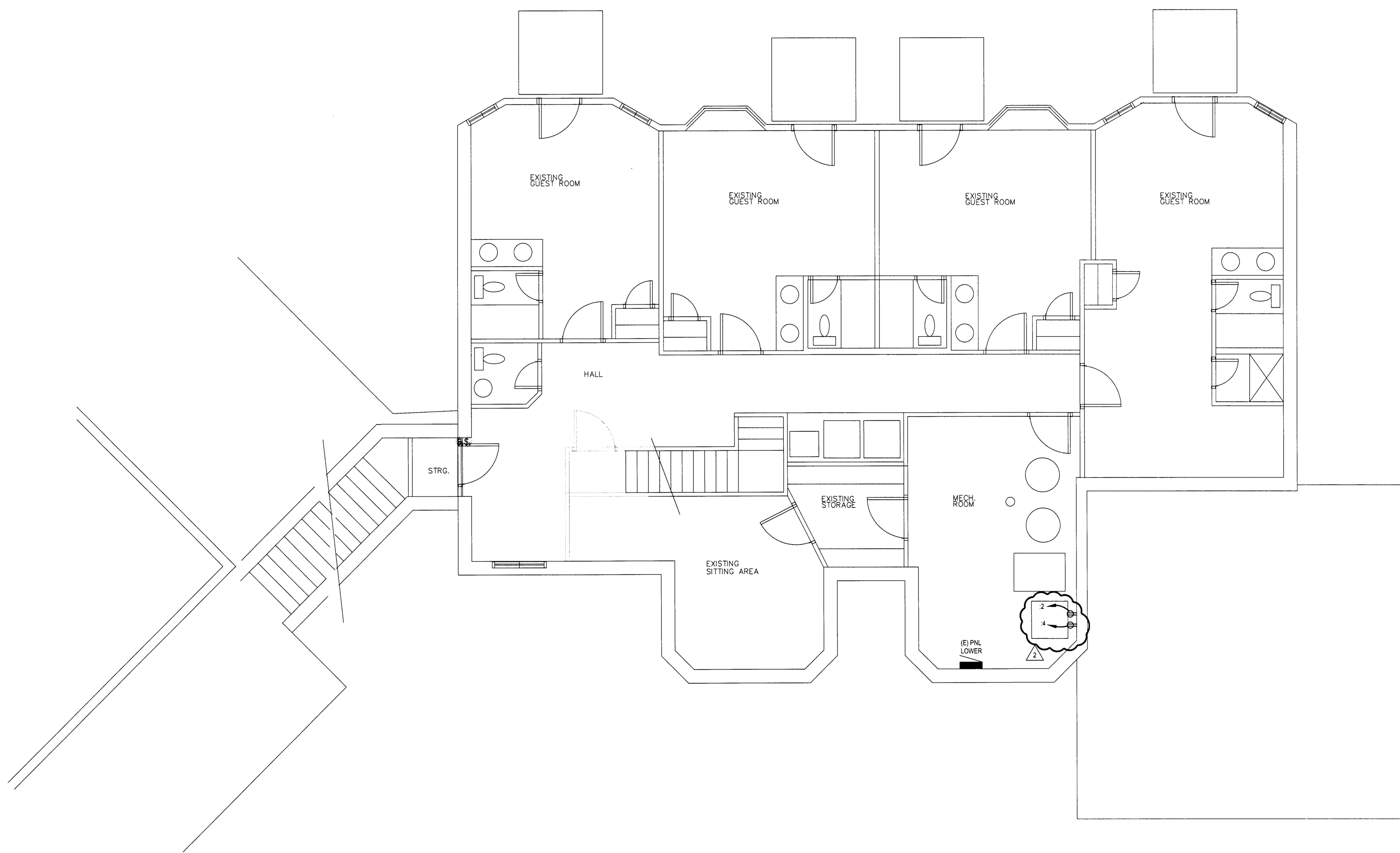
DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

▲ BUILDING DEPT.  
COMMENTS,  
22 MARCH 2011

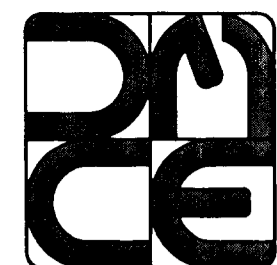
▲ BUILDING DEPT.  
COMMENTS #2  
11 APRIL 2011

Released for Permit  
APR 13 2011  
SLE  
RBD Electrical

SHEET:  
E2.1

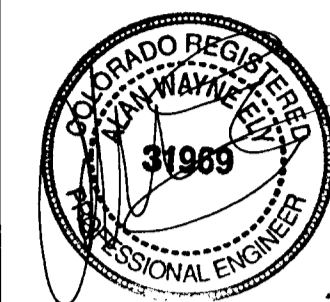


1 LOWER LEVEL ELECTRICAL PLAN  
SCALE: 1/4" = 1'-0"



ENGINEERING

5737 W 6TH AVE.  
LAKEWOOD, CO 80214  
PHONE (303) 421-3208  
FAX (303) 421-3209



MAR 22 2011

ARCHITECT:  
DOUGLAS J. EICHELEBERGER  
7000 W. WALKER RD.  
LAKEWOOD, CO 80116  
303-688-5211  
luckyranch@aol.com

STRUCTURAL ENGINEER:  
ALAN STEPNIENSKI P.E.  
MOUNTAIN STATES STRUCTURAL, INC.  
303-825-1572  
structuralengineer@yahoo.com

THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

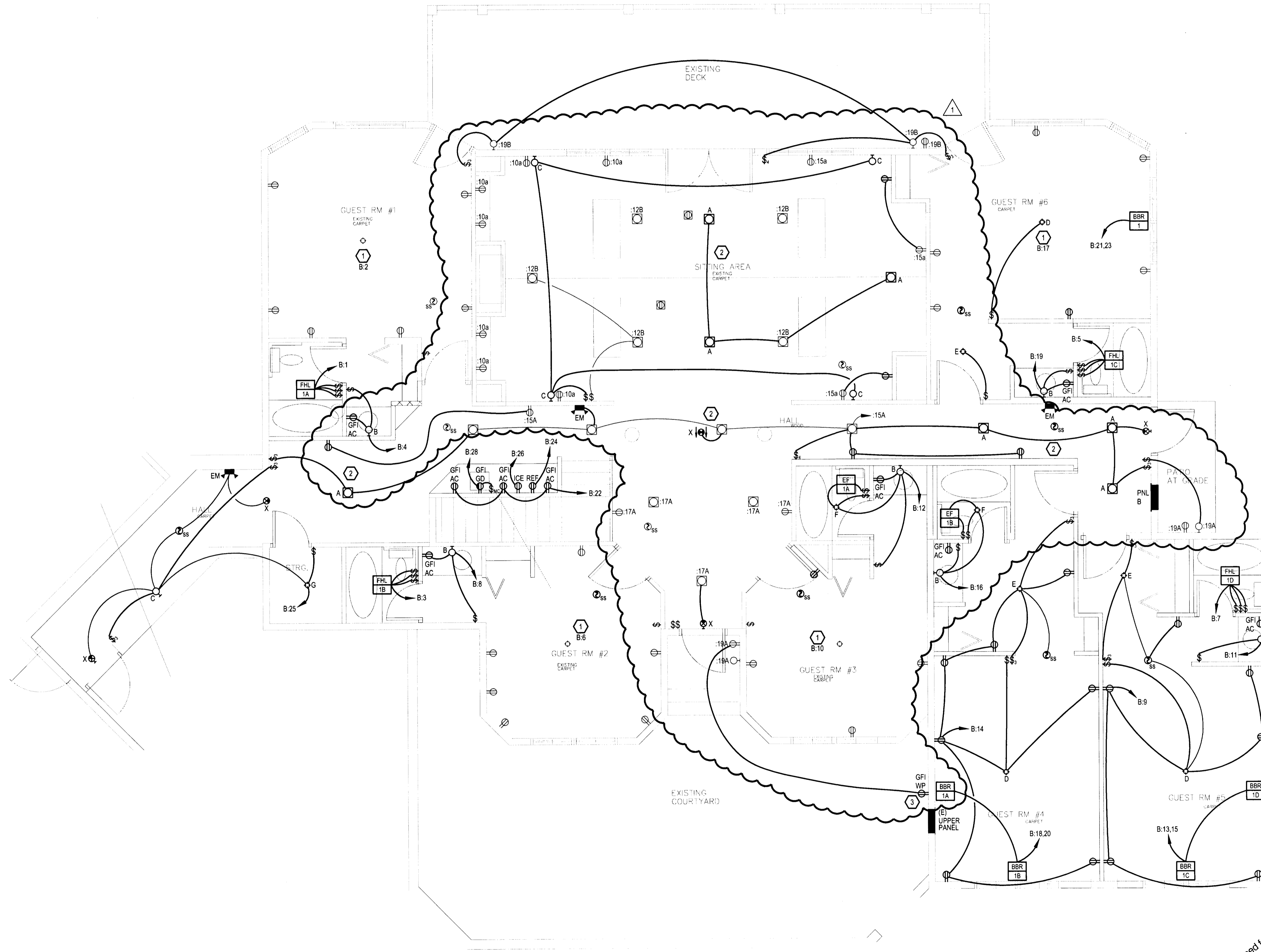
DATE:  
PERMIT AND  
CONSTRUCTION  
14 FEBRUARY 2011

BUILDING DEPT.  
COMMENTS:  
22 MARCH 2011

SHEET:  
E2.2

**WORK NOTES:**

- 1 IN GUEST ROOM, CONNECT ALL NEW AND EXISTING RECEPTACLES, LIGHTING, AND SINGLE STATION SMOKE DETECTOR TO AFCI PROTECTED CIRCUIT INDICATED.
- 2 WITH-IN EXISTING SPACES, CONNECT NEW RECEPTACLES, LIGHT FIXTURES, SINGLE STATION SMOKE DETECTORS, EXIT SIGNS, & EMERGENCY SIGNS TO EXISTING CIRCUIT IN SPACE.
- 3 REFERENCE MECHANICAL DRAWINGS FOR RELOCATED CONDENSING UNIT. RELOCATE DISCONNECT SWITCH AND CIRCUIT TO NEW LOCATION. PROVIDE WIRE/CONDUIT AS NECESSARY.



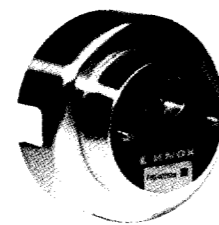
**1 UPPER LEVEL ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

Released for Permit  
APR 13 2011  
SLE  
RED Electrical



**Knox® 2.5" Locking FDC Plug**  
 Ship Weight = 4 lbs.

2-1/2 inch With *Swivel-Guard™*




Part	Part Number	Price
2-1/2" Male Plug with <i>Swivel-Guard™</i> , All Stainless Steel with Bright Stainless Finish	3041	\$161.00
2-1/2" Male Plug with <i>Swivel-Guard™</i> , All Stainless Steel with Polished, Chrome-like Finish	3040	\$171.00
2-1/2" Male Plug All Stainless Steel with Bright Stainless Finish	3043	\$122.00
2-1/2" Male Plug All Stainless Steel with Polished, Chrome-like Finish	3042	\$132.00

**Knox® StorzGuard® Caps**  
 Ship Weight = 4" = 6 lbs. 5" = 9 lbs.

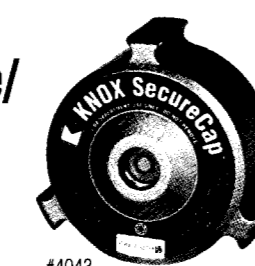
5 inch #5002

4 inch #5001



Part	Part Number	Price
4" StorzGuard® - Dark, Hard Anodized Aluminum	5001	\$225.00
5" StorzGuard® - Dark, Hard Anodized Aluminum	5002	\$245.00

**Knox® SecureCap® Locking Standpipe/ Hydrant Cap**  
 Ship Weight = 8 lbs.




Part	Part Number	Price
2-1/2" Female Cap, Stainless Steel exterior with solid brass threads	4043	\$192.00

**Knox® StorzGuard® Kits with Cap**  
 Includes StorzGuard Cap and Adapter Ship Weight = 16 lbs.

Adapter Type	Adapter Size	Face Type	Part Number	Price
StorzGuard + 30° Elbow	4" Storz X 4" NPT Female Rigid	Gasket	5022	\$431.00
		Metal Face	5023	\$431.00
	5" Storz X 4" NPT Female Rigid	Gasket	5042	\$489.00
		Metal Face	5043	\$489.00
5" Storz X 6" NPT Female Rigid	Gasket	5046	\$540.00	
	Metal Face	5047	\$540.00	
StorzGuard + Straight	4" Storz X 4" NPT Female Rigid	Gasket	5020	\$339.00
		Metal Face	5021	\$339.00
	5" Storz X 4" NPT Female Rigid	Gasket	5040	\$411.00
		Metal Face	5041	\$411.00
	5" Storz X 6" NPT Female Rigid	Gasket	5044	\$482.00
		Metal Face	5045	\$482.00

**Knox® 1.5" Locking FDC Plug**  
 Ship Weight = 2 lbs.



Part	Part Number	Price
1-1/2" NH Male Plug Bright Stainless Finish	3050	\$94.00

**Knox® StorzGuard® Adapters Only**  
 Ship Weight = 8 lbs.

Adapter Type	Adapter Size	Face Type	Part Number	Price
30° Elbow	4" Storz X 4" NPT Female Rigid	Gasket	5062	\$206.00
		Metal Face	5063	\$206.00
	5" Storz X 4" NPT Female Rigid	Gasket	5082	\$244.00
		Metal Face	5083	\$244.00
	5" Storz X 6" NPT Female Rigid	Gasket	5086	\$295.00
		Metal Face	5087	\$295.00
Straight	4" Storz X 4" NPT Female Rigid	Gasket	5060	\$114.00
		Metal Face	5061	\$114.00
	5" Storz X 4" NPT Female Rigid	Gasket	5080	\$166.00
		Metal Face	5081	\$166.00
	5" Storz X 6" NPT Female Rigid	Gasket	5084	\$237.00
		Metal Face	5085	\$237.00



623-687-2300 • 800-552-5669  
 Fax 623-687-2290

E-mail: [info@knoxbox.com](mailto:info@knoxbox.com) • Web: [www.knoxbox.com](http://www.knoxbox.com)  
 1601 W. Deer Valley Road • Phoenix, Arizona 85027

DETACH HERE TO FAX OR MAIL - DETACH HERE TO FAX OR MAIL - DETACH HERE TO FAX OR MAIL - DETACH HERE TO FAX OR MAIL

**Section 1 ORDERED BY**

COMPANY / NAME: \_\_\_\_\_ DATE ORDERED: \_\_\_\_\_

STREET: \_\_\_\_\_ SUITE / BUILDING: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_ P.O. NUMBER (GOV. AGENCIES ONLY): \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_ E-MAIL ADDRESS: \_\_\_\_\_

**Section 2 ORDER WILL NOT BE PROCESSED Without Authorized Signature**

Tri-Lakes Fire Dept  
 PO Box 2668 Monument CO 80132

*Curtis Kauffman* 4/2/11 *Curtis Kauffman*  
 Authorized Agency Signature and Date Print Name Clearly

PS-07-0133-08-97 System Code

**IMPORTANT NOTE** - Knox® Master Keys are provided to authorized agencies or other registered entities on an as-needed basis solely for use with the Knox Rapid Entry System. No other use of the Knox Master Keys or their associated codes is authorized or permitted. Knox Master Keys and Key Codes associated with the Knox Master Keys and Keyways remain the exclusive property of the Knox Company. Key Codes associated with the Knox Master Keys and Keyways are maintained by the Knox Company in Phoenix, Arizona. For questions regarding this policy, contact Knox at 800-552-5669.

**Authorizing Agency Approval Signature Required to Sub-master Items**

Check here to Sub-master Sub-master fee \$7.00 per keyed item. \_\_\_\_\_ Authorized Agency Signature

**Section 3 PRE-PAYMENT INFORMATION REQUIRED**

Check or Money Order made payable to: KNOX COMPANY Federal I.D. #95-3617858

**Section 4 ORDER PRODUCT HERE - USE ATTACHED PRICE LIST**

Quantity	Part#	Weight Ea.	Price Ea.	Extended Price
01	-3266	110	\$255.00	\$255.00

Sub-master Fee (if required \$7.00 ea.) \$ \_\_\_\_\_

Shipping and Handling \$ \_\_\_\_\_

Subtotal \$ \_\_\_\_\_

TAX Required \$ \_\_\_\_\_

Sales Tax \$ \_\_\_\_\_

Pre-payment Total \$ \_\_\_\_\_

Cardholder Signature: \_\_\_\_\_

VISA  MC  AMEX  DISC

CARD NUMBER: \_\_\_\_\_

EXP. DATE (MM / YY): \_\_\_\_\_

NAME ON CARD: \_\_\_\_\_

Credit Card Orders can be FAXED or scanned and emailed to [orders@knoxbox.com](mailto:orders@knoxbox.com)

**Section 5 INSTALLATION ADDRESS - REQUIRED BY AUTHORIZED AGENCY**

BUILDING NAME (WHERE ITEM WILL BE INSTALLED) - PLEASE TYPE ADDITIONAL INSTALLATION ADDRESSES ON A SEPARATE SHEET (REQUIRED BY FIRE DEPT): \_\_\_\_\_

STREET ADDRESS (NO P.O. BOXES): \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**Section 6 SHIP TO ADDRESS IS REQUIRED**  SAME AS INSTALL ADDRESS

SHIP TO CONTACT NAME: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_ COUNTY: \_\_\_\_\_

STREET ADDRESS (NO P.O. BOXES): \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**RUSH?** Call for Rates and Check Box:  
 Next Day Air  2nd Day Air

OFFICE USE ONLY

O/N \_\_\_\_\_

REC'D \_\_\_\_\_

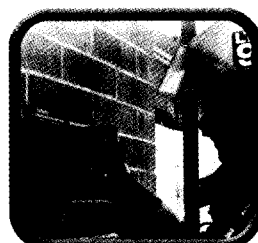
Send this form with payment to:  
**KNOX COMPANY**  
 1601 W. Deer Valley Road  
 Phoenix, AZ 85027

# About the Knox Company

Since 1975, Knox has been manufacturing high security key boxes, key vaults, armored cabinets, key switches, padlocks, master key retention devices, narcotics drug lockers and locking FDC plugs and caps. This proven rapid entry system reduces response time, property damages and the liability for lost keys. More than 11,500 fire departments, military installations and the communities they serve depend on Knox products and services.



**Knox Company**  
1601 W. Deer Valley Road  
Phoenix, Arizona 85027



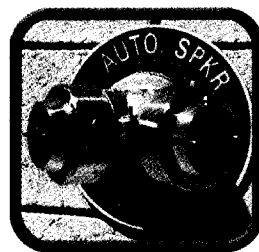
Knox-Box® Rapid Entry System



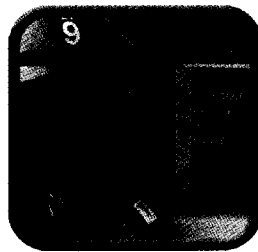
Master Key Retention



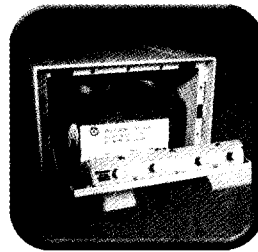
Gate Access



FDC Protection



Haz-Mat Cabinets



Narcotics Lockers

## ORDER TERMS AND CONDITIONS

As used in this Order Terms and Conditions (the "Agreement"), the words "you," "your," and "customer" each mean the person or entity named on the face of this form as the Customer or Buyer. The words "we," "our," and "Knox" each mean Knox Associates, Inc. d/b/a The Knox Company, an Arizona corporation, with a place of business located at 1601 W. Deer Valley Road, Phoenix, Arizona 85027. The words "Equipment" or "Product" mean the products ordered under this agreement.

1. This Order is based upon these terms and conditions of this Agreement. Knox rejects any and all other terms and conditions of sale proposed or discussed by the parties in connection with this Order or the resulting transaction. This Agreement shall constitute the entire and exclusive contract of sale between you and Knox, and any additional or different terms in any purchase order, counteroffers, or where ever contained are objected to and rejected.

2. All orders for Products are subject to availability. We reserve the right to reject any order for any reason. We will use all reasonable efforts to deliver Products by a requested delivery date. However, delivery dates are approximate and we are not liable for delays in delivery for any reason.

3. Subject to payment in full, title to purchased Products will pass to you, FOB our shipping dock.

4. Before shipping Products to you, we will perform our standard factory inspection and acceptance tests on the unit, and satisfactory completion of inspection will constitute your acceptance of the unit. At your request, we will certify in writing our completion of inspection tests.

5. You shall pay all amounts due according to the payment terms on the face of this form, in United States dollars, delivered to us at the address stated on the invoice or as otherwise required by us. If you fail to pay any charges when due, in addition to such overdue amounts you shall pay a late-payment charge on the unpaid balance equal to the lesser of 1.5 percent per month or the lawful maximum. You have no set-off rights.

6. We warrant that Products ordered and subsequently sold to you under this Agreement will conform to our then-current published specifications for the Product and limited to the warranty period specified by Knox for that Product on the date of your order. We reserve the right to make changes to our products and have no obligation to alter previously purchased products. Our sole obligation to you and your exclusive remedy under this warranty is as follows: a) We will repair or replace without charge Products found to be defective so long as you return the Products to us, freight prepaid, to our service center in Phoenix, Arizona. b) We will not be required to ship a replacement until we have confirmed through our examination that your item is in fact defective. We will pay freight costs to ship any repaired or replacement unit to you. If we are unable within a reasonable time to repair or replace your item, then you will be entitled to the refund of your purchase price. c) This warranty does not apply to any unit which we determine has been subjected by you or another party to (1) operating or environmental conditions in excess of our written specifications or recommendations; (2) damage, misuse or neglect; or (3) improper installation, repair, modification or alteration. This warranty also excludes expendable items, such as lamps, fuses, or other parts which fail from normal use. This is our only warranty for Products. **KNOX EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, GUARANTEES OR REMEDIES - WHETHER EXPRESS, IMPLIED, OR STATUTORY - INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** We also disclaim any implied warranty arising out of trade usage or out of a course of dealing or course of performance. And in no event shall our liability to you exceed the limitations specified in Section 9.

7. You acknowledge that all right, title and interest in all patents, copyrights, trademarks, trade dress, trade secrets and other intellectual property embodied within, covering or in any way regarding the Products is owned exclusively by Knox, or its licensor(s), and all rights with regard to such intellectual property are reserved. You represent, warrant and covenant that you will not claim any right, title or interest in, or use, any such intellectual property, including any and all codes to keys, keyways and keywrenches all of which remain exclusively the property of Knox or its licensor(s), and that you will not bring any suit or proceeding in an attempt to invalidate or claim any such intellectual property rights.

8. Neither Knox nor you will be liable to the other for any delay or failure to perform if that delay or failure results from a cause beyond its reasonable control.

9. Your exclusive remedies concerning our performance or nonperformance are those expressly stated in this Agreement. *Under no circumstances will Knox be liable for procurement costs, lost revenue or profits, loss of data, or for any other special, incidental or consequential damages, even if they were foreseeable or you have informed us of their potential.* And we will not be liable for any damages claimed by you based upon any third party claim. *Our total liability to you for your damages under this Agreement will not exceed the price you paid to us for the unit of Products at issue in your claim.* This limitation will apply regardless of the form of action (i.e., whether the lawsuit is in contract or in tort, including negligence.) *Because some states do not allow exclusion or limitation of liability for consequential or incidental damages, in such states Knox's entire liability is limited to the full extent permitted by law.*

10. You shall indemnify and save Knox harmless from all claims, losses, damages, expenses (including reasonable legal fees) and liability resulting from or in any way connected, directly or indirectly, with a breach of your obligations under this Agreement, third party claims, or with the possession, handling, sale or use of the Products or goods made from the Products delivered hereunder.

11. You will be invoiced and will pay all sales, use, excise, and other taxes on Products unless exempt under law or you furnish us with a valid resale or exemption certificate. The reporting and payment of all taxes for Products is your sole responsibility. You will also be responsible for all transportation costs, insurance charges, customs duties, and loss or damage settlements. Our prices for Products do not include such taxes or charges; where applicable, they will be added to your total invoice amount. You will not be responsible, however, for taxes levied against us based upon our net income or net worth (franchise taxes).

12. If for any reason we are unable to supply the total demand for Products specified herein, we may in our sole discretion distribute our available supply of Products among our customers, and we shall have no obligation to purchase supplies of the goods from third parties to enable us to perform our obligations to you under this Agreement.

13. This Agreement shall be governed by and construed in accordance with the laws of the State of Arizona without resort to conflict of laws rules. Each party irrevocably agrees that any action, suit or other legal proceeding against them shall be brought in a court of the State of Arizona or in the United States District Court for the State of Arizona. By execution and delivery of this Agreement, each party irrevocably submits to and accepts the jurisdiction of each of such courts and waives any objection (including any objection to venue, enforcement, or grounds of forum non conveniens) which might be asserted against the bringing of any such action, suit or other legal proceeding in such courts. In the event any proceedings are commenced to enforce or construe this invoice or the goods or services related thereto, then the prevailing party in such proceedings shall be entitled to its reasonable attorney fees thereby incurred. In the event a judgment is entered in such proceedings, it is agreed that said judgment shall provide that the prevailing party shall be entitled to recover all attorney fees reasonably incurred in enforcing said judgment.

14. This Agreement represents the entire agreement between us regarding this Order and Products we are to sell to you under it. The parties specifically disclaim the application of the United Nations Convention on Contracts for the International Sale of Goods. It also supersedes all previous oral or written communications between us regarding its subject matter, and it may not be modified or waived except in writing and signed by an officer or other authorized representative of each party. If any provision is held invalid, all other provisions shall remain valid, unless such invalidity would frustrate the purpose of our Agreement.

E-mail: [info@knoxbox.com](mailto:info@knoxbox.com)  
Web: [www.knoxbox.com](http://www.knoxbox.com)

623-687-2300  
800-552-5669  
Fax 623-687-2290

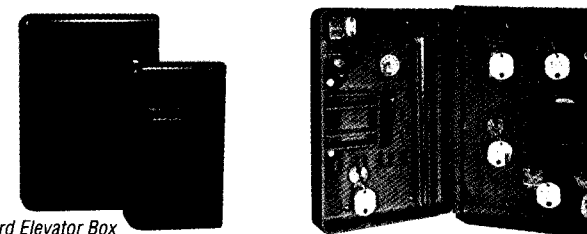
# 2011 Price List - Order Online at [www.knoxbox.com](http://www.knoxbox.com)

Prices in U.S. Dollars.  
Prices and availability  
subject to change.

● Included  
- Not Included

## Knox® Elevator/Lobby Box

Ship Weight: Standard = 14 lbs.; Mini = 9 lbs.



Standard Elevator Box 1400 Series Mini Elevator Box 1450 Series #1404 with #1449 Expansion Panel

### 1400 Series Knox Standard Elevator/Lobby Box

Part	Tamper Switch	Color	Part Number	Price
Standard Elevator Box	-	Deep Red	1403	\$295.00
Standard Elevator Box	●	Deep Red	1404	\$335.00
Standard Elevator Box	-	Aluminum	1433 / 1409*	\$295.00
Standard Elevator Box	●	Aluminum	1434 / 1410*	\$335.00
Standard Elevator Box	-	Dark Bronze	1437 / 1413*	\$295.00
Standard Elevator Box	●	Dark Bronze	1438 / 1414*	\$335.00
13 Hook Expansion Panel		Red/Alum/Brz	1449	\$40.00

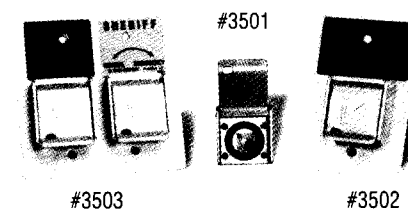
### 1450 Series Knox Mini Elevator/Lobby Box

Mini Elevator Box	-	Deep Red	1453	\$274.00
Mini Elevator Box	●	Deep Red	1454	\$314.00
Mini Elevator Box	-	Aluminum	1457 / 1455*	\$274.00
Mini Elevator Box	●	Aluminum	1458 / 1456*	\$314.00
Mini Elevator Box	-	Dark Bronze	1461 / 1459*	\$274.00
Mini Elevator Box	●	Dark Bronze	1462 / 1460*	\$314.00

Standard color is Deep Red with "Fire Dept. Use Only" banner to meet latest IFC standard. Black also available without banner. \*Part number for box without "Fire Dept. Use Only" banner on door.

## Knox® Key Switch

Ship Weight = 1 lb.



Part (includes all stainless steel dust cover)	Part Number	Price
Key Switch	3501	\$73.00
Key Switch on Mounting Plate	3502	\$91.00
Double Key Switch on Mounting Plate	3503	\$145.00

## Knox® Electrical Shutdown Switch Box

Ship Weight = 35 lbs.



Coming Soon



#4506

Lock Type	Mount Type	Tamper Switch	Color	Part Number	Price
Single Lock	Surface Mount	-	Red	4505	\$694.00
		●	Red	4506	\$734.00
		-	Black	4501	\$694.00
		●	Black	4502	\$734.00
	Recess Mount	-	Red	4534	\$744.00
		●	Red	4535	\$784.00
Dual Lock	Surface Mount	-	Red	4507	\$754.00
		●	Red	4508	\$794.00
		-	Black	4503	\$754.00
		●	Black	4504	\$794.00
	Recess Mount	-	Red	4536	\$804.00
		●	Red	4537	\$844.00
		-	Black	4532	\$804.00
		●	Black	4533	\$844.00

## Knox® Padlock

Ship Weight = 2 lbs.



#3772

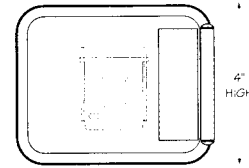
#3770

#3771

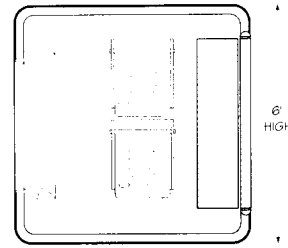
Part	Part Number	Price
Shrouded - All Weather Conditions 7/16" diameter stainless steel shackle, 3/4" H shackle clearance	3772	\$99.00
Exterior - All Weather Conditions 7/16" diameter stainless steel shackle, 1-13/16" H shackle clearance	3770	\$85.00
Interior - Light Duty 5/16" diameter hardened steel shackle, 2-3/8" H shackle clearance	3771	\$62.00

Choose the right-sized  
**KNOX-BOX®** key vault.

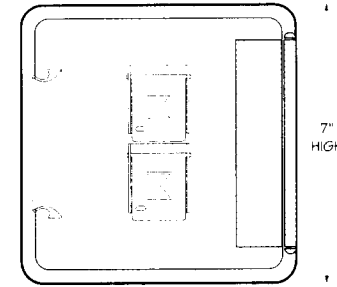
Three sizes available  
to meet a wide  
variety of applications



**Knox-Box®  
3200 Series**  
Holds up to 10 Keys



**Knox-Vault®  
4100 Series**  
Holds up to 24 Keys



**Knox-Vault®  
4400 Series**  
Holds up to 50 Keys

## KNOX-BOX® 3200 Series w/ Hinged Door



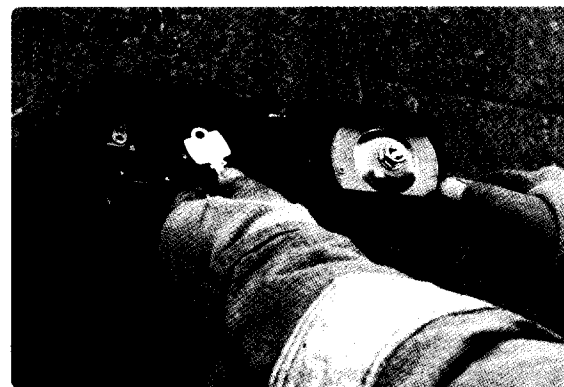
#3275 Recessed



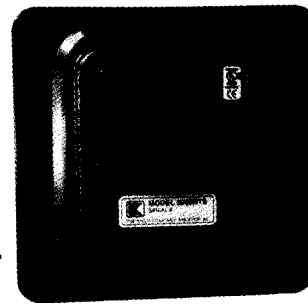
#3266 Surface



- Heavy-duty, high security construction
- Allows single-handed operation
- Door attached with hinge, it's all one unit
- Ensures efficient emergency response
- Capacity for up to 10 keys and/or access cards
- 1/2" solid steel door
- Dimensions: Surface 4" H x 5" W x 3-3/4" D  
Recessed 7" H x 7" W Flange
- **Ship Weight: 10 lbs.**
- Colors: Black, Aluminum, Dark Bronze
- Finish: Knox-Coat® Weather resistant proprietary coating system



## KNOX-BOX® 3200 Series w/ Lift-Off Door - Heavy Duty



#3227 Recessed



#3208 Surface

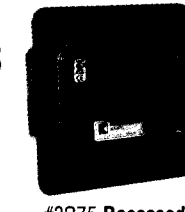
- Heavy-duty, high security construction
- Capacity for up to 10 keys and/or access cards
- 1/2" solid steel door
- Dimensions: Surface 5" H x 4" W x 3-3/4" D  
Recessed 7" H x 7" W Flange
- **Ship Weight: 10 lbs.**
- Colors: Black, Aluminum, Dark Bronze
- Finish: Knox-Coat® Weather resistant proprietary coating system

- Options:
- Alarm tamper switches
  - Multi-purpose electrical switch
  - Recessed Mounting Kit available for new masonry construction

Knox® Master Keys are provided to authorized agencies or other registered entities on an as-needed basis solely for use with the Knox Rapid Entry System. No other use of the Knox Master Keys or their associated codes is authorized or permitted. Knox Master Keys and Key Codes associated with the Knox Master Keys and Keyways remain the exclusive property of the Knox Company. Key Codes associated with the Knox Master Keys and Keyways are maintained by the Knox Company in Phoenix, Arizona. For questions regarding this policy, contact Knox at 800-552-5669.

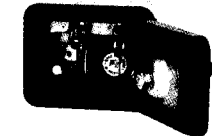
## Knox-Box® 3200 Series

Holds up to 10 Keys  
Ship Weight = 10 lbs.



#3275 Recessed

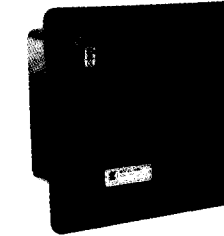
#3266 Surface



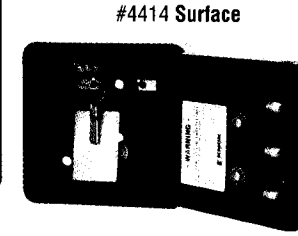
Door Type	Mount Type	Tamper Switch	Color	Part Number	Price	
Hinged	Surface Mount	-	Black	3261	\$255.00	
		●	Black	3262	\$295.00	
		-	Aluminum	3263	\$265.00	
		●	Aluminum	3264	\$305.00	
		-	Dark Bronze	3265	\$265.00	
		●	Dark Bronze	3266	\$305.00	
	Recess Mount	-	Black	3270	\$295.00	
		●	Black	3271	\$335.00	
		-	Aluminum	3272	\$305.00	
		●	Aluminum	3273	\$345.00	
		-	Dark Bronze	3274	\$305.00	
		●	Dark Bronze	3275	\$345.00	
	Optional Multi-purpose electrical switch				3291	\$21.00
	3200 Hinged Door Recessed Mounting Kit				3290	\$79.00
Lift-Off	Surface Mount	-	Black	3201	\$215.00	
		●	Black	3202	\$255.00	
		-	Aluminum	3205	\$225.00	
		●	Aluminum	3206	\$265.00	
		-	Dark Bronze	3207	\$225.00	
		●	Dark Bronze	3208	\$265.00	
	Recess Mount	-	Black	3220	\$255.00	
		●	Black	3221	\$295.00	
		-	Aluminum	3224	\$265.00	
		●	Aluminum	3225	\$305.00	
		-	Dark Bronze	3226	\$265.00	
		●	Dark Bronze	3227	\$305.00	
	Optional Multi-purpose electrical switch				3241	\$21.00
	3200 Lift-off Door Recessed Mounting Kit				3240	\$79.00

## Knox-Vault® 4400 Series

Holds up to 50 Keys  
Ship Weight = 29 lbs.



#4444 Recessed



#4414 Surface

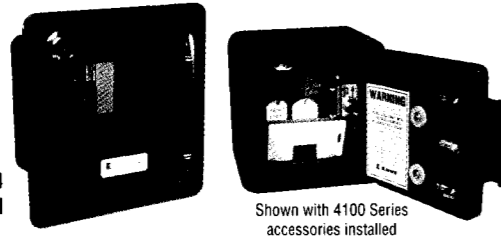
Lock Type	Mount Type	Tamper Switch	Color	Part Number	Price		
Single Lock	Surface Mount	-	Black	4401	\$378.00		
		●	Black	4402	\$418.00		
		-	Aluminum	4409	\$388.00		
		●	Aluminum	4410	\$428.00		
		-	Dark Bronze	4413	\$388.00		
		●	Dark Bronze	4414	\$428.00		
	Recess Mount	-	Black	4430	\$428.00		
		●	Black	4431	\$468.00		
		-	Aluminum	4439	\$438.00		
		●	Aluminum	4440	\$478.00		
				-	Dark Bronze	4443	\$438.00
				●	Dark Bronze	4444	\$478.00
4400 Recessed Mounting Kit				4470	\$95.00		
Dual Lock	Surface Mount	-	Black	4403	\$438.00		
		●	Black	4404	\$478.00		
		-	Aluminum	4411	\$448.00		
		●	Aluminum	4412	\$488.00		
		-	Dark Bronze	4415	\$448.00		
		●	Dark Bronze	4416	\$488.00		
	Recess Mount	-	Black	4432	\$488.00		
		●	Black	4433	\$528.00		
		-	Aluminum	4441	\$498.00		
		●	Aluminum	4442	\$538.00		
				-	Dark Bronze	4445	\$498.00
				●	Dark Bronze	4446	\$538.00
4400 Recessed Mounting Kit				4470	\$95.00		
4400 Accessories	Optional Multi-purpose electrical switch			4471	\$21.00		
	Keywrench/card holder			4472	\$11.00		
	Push Button Switch			4473	\$9.00		

### Knox-Vault® 4100 Series


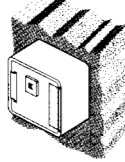
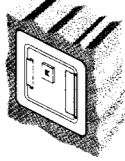


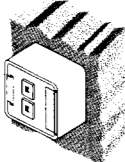
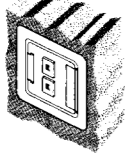
Holds up to 24 Keys  
Ship Weight = 21 lbs.

#4114 Surface

#4144 Recessed



Shown with 4100 Series accessories installed

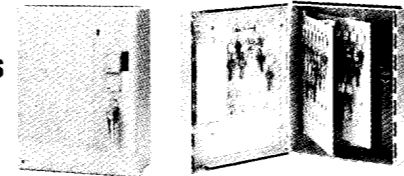
Lock Type	Mount Type	Tamper Switch	Color	Part Number	Price
Single Lock 	Surface Mount 	-	Black	4101	\$353.00
		●	Black	4102	\$393.00
		-	Aluminum	4109	\$363.00
		●	Aluminum	4110	\$403.00
		-	Dark Bronze	4113	\$363.00
		●	Dark Bronze	4114	\$403.00
	Recess Mount 	-	Black	4130	\$403.00
		●	Black	4131	\$443.00
		-	Aluminum	4139	\$413.00
		●	Aluminum	4140	\$453.00
		-	Dark Bronze	4143	\$413.00
		●	Dark Bronze	4144	\$453.00
4100 Recessed Mounting Kit				4170	\$90.00
Dual Lock  	Surface Mount 	-	Black	4103	\$413.00
		●	Black	4104	\$453.00
		-	Aluminum	4111	\$423.00
		●	Aluminum	4112	\$463.00
		-	Dark Bronze	4115	\$423.00
		●	Dark Bronze	4116	\$463.00
	Recess Mount 	-	Black	4132	\$463.00
		●	Black	4133	\$503.00
		-	Aluminum	4141	\$473.00
		●	Aluminum	4142	\$513.00
		-	Dark Bronze	4145	\$473.00
		●	Dark Bronze	4146	\$513.00
4100 Recessed Mounting Kit				4170	\$90.00
4100 Accessories	Optional Multi-purpose electrical switch			4171	\$21.00
	Keywrench/card holder			4172	\$11.00
	Push Button Switch			4173	\$9.00

### Knox® Cabinet 1300 Series




Holds up to 231 Keys  
with optional swing panels,  
see page 6.

Ship Weight = 67 lbs.

#1308 w/ Optional Back Panel and Swing Panels.



#1307 Dual Lock

Lock Type	Depth	Tamper Switch	Color	Part Number	Price
Single Lock 	5 inch	-	Lt. Grey	1301	\$627.00
		●	Lt. Grey	1303	\$667.00
	7 inch	-	Lt. Grey	1302	\$667.00
		●	Lt. Grey	1304	\$707.00
Dual Lock  	5 inch	-	Lt. Grey	1305	\$687.00
		●	Lt. Grey	1307	\$727.00
	7 inch	-	Lt. Grey	1306	\$727.00
		●	Lt. Grey	1308	\$767.00

#### 1300 Cabinet Options

Back Key Hook Panel - 48 Keys	1351	\$55.00
Swing Key Hook Panel & Mounting Assembly - 78 Keys	1352	\$154.00
2nd Swing Key Hook Panel for 7" Deep Model Only (must already have mounting assembly)	1353	\$121.00
Non Locking Weather Housing/Rain Shield (for exterior cabinet protection) Ship Weight = 75 lbs.	1201	\$385.00
1300 - 5 inch Cabinet with Jail Key Hooks	1360	\$627.00

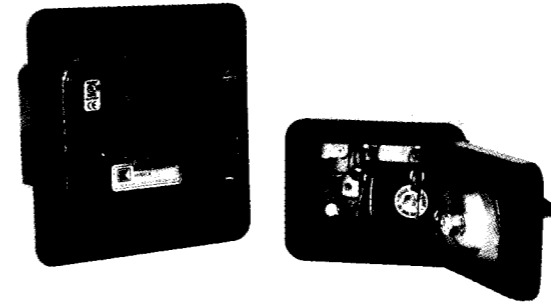
#### 1100 Series

Part	Color	Part Number	Price
Data Storage Cabinet (Not for key storage) Ship Weight = 26 lbs.	Lt. Grey	1100	\$298.00

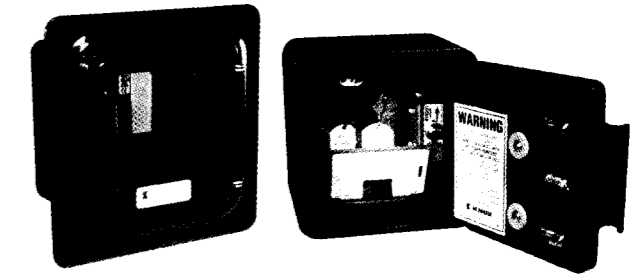
#### Accessories

Part	Part Number	Price
Fire Dept. Red Reflective Alert Decal	1001	\$2.00
Pre-Fire Plan Reflective Decal (8" x 8")	1005	\$12.00
Key Tags (Package of 10)	1006	\$3.00
One Inch Key Rings (Package of 10)	1007	\$4.00
Tamper Seals (Package of 50)	1008	\$10.00
Tamper Evident Bags (Package of 10)	1009	\$3.00

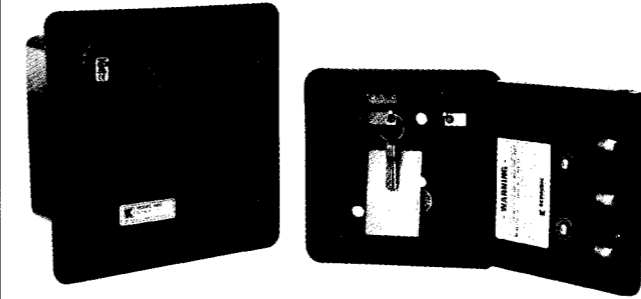
#### Knox-Box® 3200 Series - Page 4



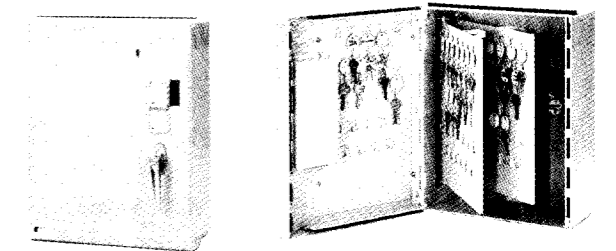
#### Knox-Vault® 4100 Series - Page 5



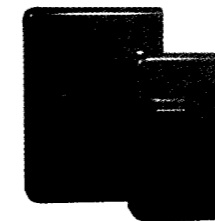
#### Knox-Vault® 4400 Series - Page 5



#### Knox® Cabinets - Page 6



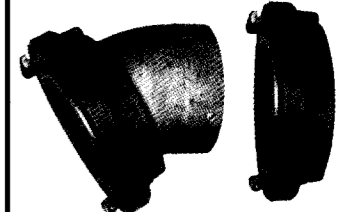
#### Knox® Elevator Box - Page 6



#### Knox® FDC Protection - Page 7



#### Knox® StorzGuard® Kits and Adapters - Page 7



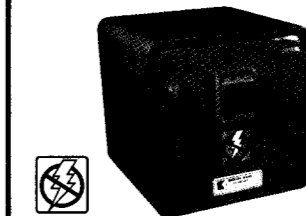
#### Knox® Key Switches - Page 8



#### Knox® Padlocks - Page 8



#### Knox® Electrical Power Shutdown Box - Page 8



#### Knox® Part Numbers and Price List - Page 9-12

### NEW Knox® Elevator/Lobby Key Box

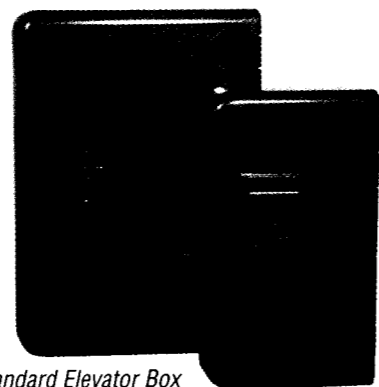
UL listed high security box designed specifically for the elevator lobby.



The **Standard** elevator box can store up to (2) elevator door "drop keys" plus additional keys to meet latest IFC standard.

The **Mini** elevator box is for standard key storage only and offers a lower profile than the standard KNOX-BOX, making it a more attractive choice for lobby or elevator corridor use when needed.

The Knox Elevator/Lobby Key Box can be keyed to an existing Knox System.

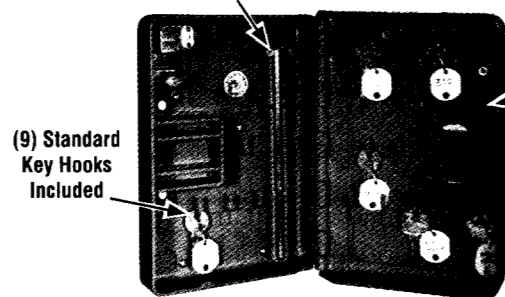


Standard Elevator Box  
1400 Series

Mini Elevator Box  
1450 Series

Mini holds standard keys ONLY, no elevator "drop keys"

Elevator "Drop Key" Storage #1404



(9) Standard Key Hooks Included

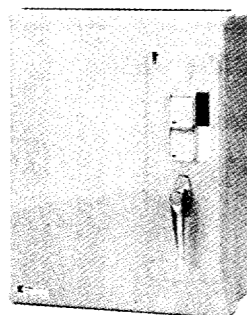
#1449 Right-side, 13 key-hook Expansion Panel available for additional storage.

High Security Rating means BOTH elevator door "drop keys" and additional keys can be stored in this unit.

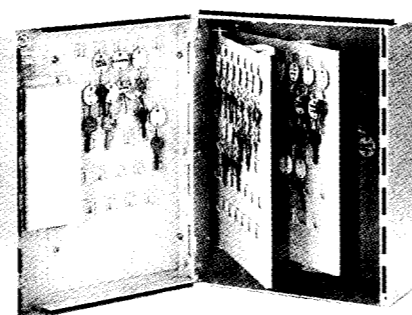
- Standard Dimensions: 10-1/2"H x 7-1/2"W x 2"D
- Mini Dimensions: 8-1/2"H x 5"W x 2"D
- **Ship Weight: Standard = 14 lbs; Mini = 9 lbs**
- Material: 10 gauge steel housing; 10 gauge steel door
- Colors: Deep Red, Dark Bronze, Aluminum or Black
  - Deep Red with "Fire Dept. Use Only" banner required
  - Dark Bronze and Aluminum with optional banner
  - Black available without banner only - low profile for security use
- Options - Alarm tamper switch
  - 13-key hook expansion panel for Standard Elevator Box only

### Knox® Cabinet

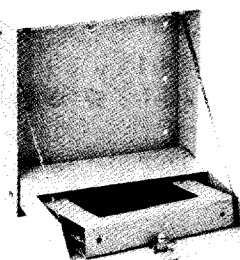
- **1300 Series** – UL listed high security armored cabinet
- Stores up to 231 keys, blueprints, floor plans, MSDS, Haz-Mat information and other entry items
- Available in 5" or 7" depths
- Dimensions: 18" H x 14-1/2" W x 5" or 7" D
- **Ship Weight: 67 lbs.**
- Color: Light grey
- Finish: Knox-Coat® Weather resistant proprietary coating system



#1307 Dual Lock

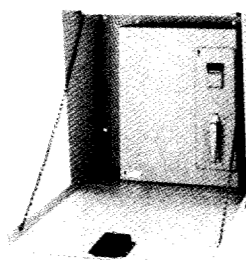


#1308 w/ Optional Back Panel and Swing Panels.



#1100 Not suitable for key storage.

- **1100 Series** - Document storage cabinet
- Stores blueprints, floor plans, MSDS, Haz-Mat information and other items (Not suitable for key storage)
- Dimensions: 14" H x 14" W x 4-1/4" D
- **Ship Weight: 26 lbs.**
- Color: Light grey
- Finish: Knox-Coat® Weather resistant proprietary coating system

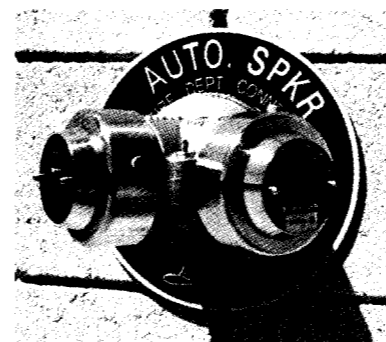


#1201 Weather Housing/Rain Shield with #1301 Cabinet Inside. Has latch without lock. Door folds down as work surface.

- **1201** Weather housing/Rain shield
- Protect Knox cabinet from weather
- Weather housing has latch without lock
- Dimensions: 21" H x 20" W x 13-5/8" D
- **Ship Weight: 75 lbs.**
- Color: Light grey
- Finish: Knox-Coat® Weather resistant proprietary coating system

### Knox® FDC Plug

- Solid Stainless Steel Construction
- Protect sprinkler system against vandalism
- Prevent frequent cap replacement
- Optional **Swivel-Guard™** protects against brass theft
- Available in 1-1/2" or 2-1/2" sizes
- Finish: Bright Stainless Steel (2-1/2" Plug also available with Bright Chrome-like stainless finish)
- **Ship Weight: 1-1/2" = 2 lbs.; 2-1/2" = 4 lbs.**



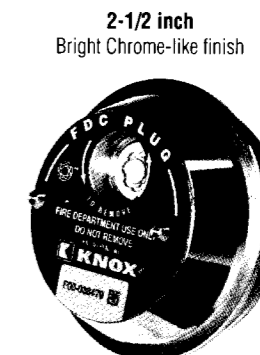
1-1/2 inch

#3050



2-1/2 inch With **Swivel-Guard™**

#3041



2-1/2 inch Bright Chrome-like finish

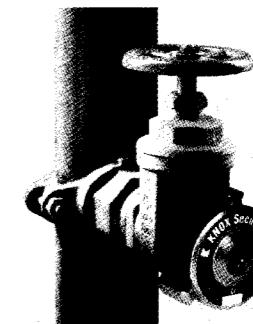
#3042

### Knox® SecureCap®

- Locking, watertight cap
- Protect discharge side of standpipes and wall hydrants
- Stainless Steel exterior with brass connection threads
- 2-1/2" size
- Finish: Stainless Steel
- **Ship Weight: 8 lbs.**

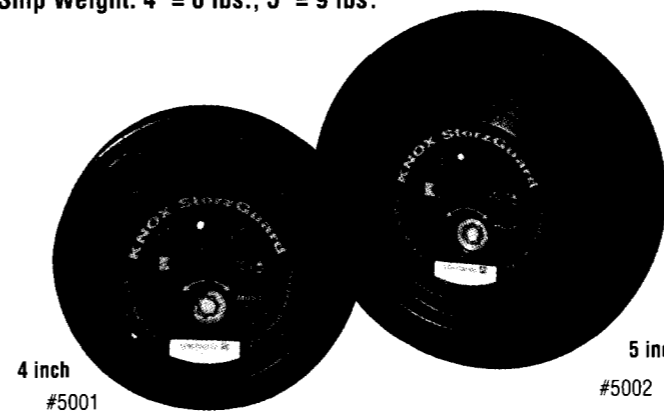


#4043



### Knox® StorzGuard®

- Secure large diameter connections
- Prevent unauthorized access
- Watertight
- Available in 4" or 5" sizes
- Finish: Dark, Hard Anodized Aluminum
- **Ship Weight: 4" = 6 lbs.; 5" = 9 lbs.**



4 inch

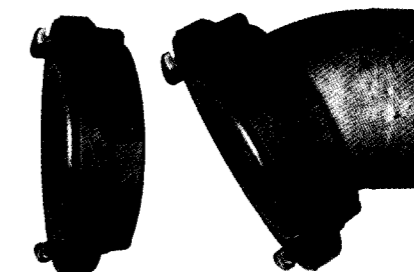
#5001

5 inch

#5002

### StorzGuard® Adapters – U.S. MADE

Knox StorzGuard Adapters Available in Straight and 30° Elbow  
See Price List for Adapters and Kits



Straight

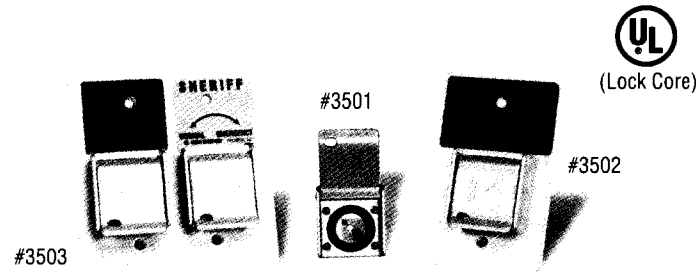
30° Elbow

- Ready to Install
- Meets DIN Standard
- Meets NFPA Standard
- Forged Clamp Fittings
- Straight or 30° Elbow

Sizes Available	
4" pipe fitting to 4" Storz	
4" pipe fitting to 5" Storz	
6" pipe fitting to 5" Storz	



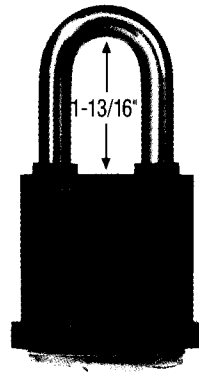
## Key Switches



- Electric override for perimeter gates, parking garages, gated communities, HVAC controls and industrial equipment lockout
- For fire, EMS & law enforcement
- Single or dual-key options
- All stainless steel dust cover
- **Ship Weight: 1 lb.**

## Knox® Padlocks (Lock Core) Agency I.D. Label Included

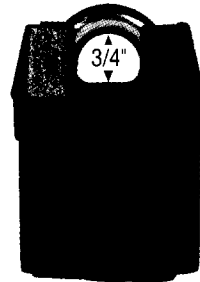
## Padlocks



#3770

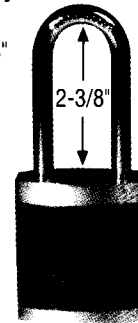
- Improved - Thicker shackle**  
**Exterior - All Weather Conditions**
- Secures perimeter and fire access gates, and other fire department equipment
  - Heavy duty brass body, stainless steel 7/16" diameter shackle
  - Protective EPDM boot with shackle seal
  - Metal keyway cover

- Shrouded - All Weather Conditions**
- Shrouded shackle resists pry and cut attacks for added security
  - Heavy duty brass body, stainless steel 7/16" diameter shackle
  - Protective LDPE boot
  - LDPE keyway cover



#3772

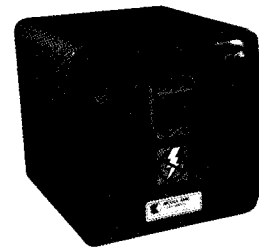
- Interior - Light Duty**
- Brass body and hardened steel 5/16" diameter shackle



#3771

**Ship Weight: 2 lbs.**

**WARNING:** Before ordering, measure hasp fittings to ensure proper shackle size.



#4506

### Features:

- Allen-Bradley Type 4/13 Watertight Selector Switch
- Type 2, 3R electrical enclosure
- Lock Out/Tag Out Posts

## Coming Soon – Knox® Electrical Power Shutdown Box

The 4500 remote electrical shutdown box houses an electrical service disconnect switch that can be used by first responders during an emergency. The shutdown switch is designed to operate the building's shunt trip switch and can be used to disconnect electrical power to the building.

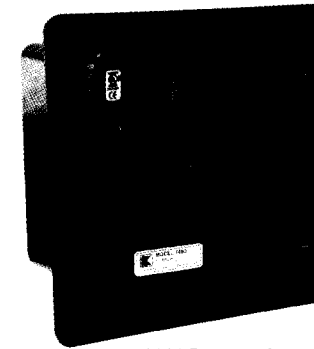
- Dimensions: Surface: 7"H x 7"W x 7-1/4"D  
Recessed: 9-1/2"H x 9-1/2"W Flange
- Electrical Ratings: Main Switch: A600, P600 pilot duty  
Tamper Switch: 24VDC, 50mA, general use  
Enclosure Rating: Type 2, 3R
- **Ship Weight: 35 lbs.**
- Material: 1/4" steel housing, 5/8" thick steel door
- Color: Red, Black



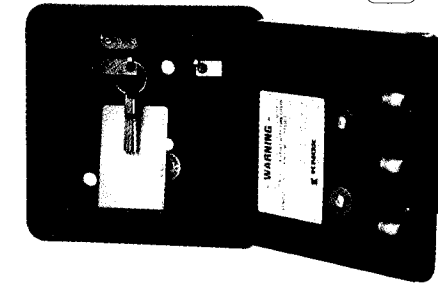
### Options:

- Available in Surface and Recessed configurations
- Alarm tamper switches
- Single or dual locks

## KNOX-VAULT® 4400 Series - Heavy Duty



#4414 Surface



#4444 Recessed

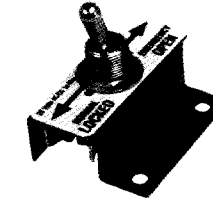
- Heavy-duty, high security construction
- 50 key capacity storage, for access cards, floor plans
- 5/8" solid steel door, re-locking mechanism with drill resistant hard-plate lock protector
- Dimensions: Surface 7" x 7" W x 5" D  
Recessed 9-1/2" H x 9-1/2" W Flange
- **Ship weight: 29 lbs.**
- Colors: Black, Aluminum, Dark Bronze
- Finish: Knox-Coat® Weather resistant proprietary coating system

### Options:

- Single, dual or combination locks
- Alarm tamper switches
- Recessed Mounting Kit available for new masonry construction
- Multi-purpose electrical switch
- Push button switch for mag lock and door operation (low voltage)
- FDC Keywrench /Access card holder



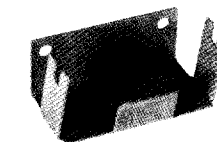
## KNOX-BOX® Accessories Available for the 4100 Series and 4400 Series



Multi-purpose Electrical Switch  
28 Volts AC/DC 5a Max.  
*(Also available for 3200 Series)*



Push-Button Momentary Switch  
24 Volts AC/DC 0.25a Max.

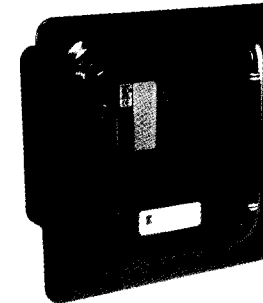


FDC Keywrench/  
Access Card Holder



FDC Keywrench/  
Access Card Holder  
shown in use

## KNOX-VAULT® 4100 Series - Heavy Duty



#4114 Recessed



#4114 Surface

Shown with 4100 Series accessories installed



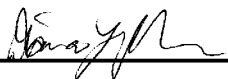
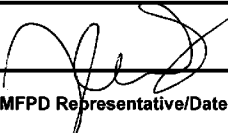
For those applications where a 3200 Series is too small yet the 4400 Series is too large. The 4100 is available with an optional Knox Keywrench holder allowing departments to keep a Knox FDC Keywrench on site.

- Options:
- Single or dual lock
  - Alarm tamper switches
  - Recessed Mounting Kit available for new masonry construction
  - Multi-purpose electrical switch
  - Push button switch for mag lock and door operation (low voltage)
  - FDC Keywrench /Access card holder

- Heavy-duty, high security construction
- 24 key capacity storage, for access cards, floor plans
- 1/2" solid steel door, re-locking mechanism with drill resistant hard-plate lock protector
- Dimensions: Surface 6"H x 6"W x 4-1/2"D  
Recessed 8-1/2"H x 8-1/2" W Flange
- **Ship weight: 21 lbs.**
- Colors: Black, Aluminum, Dark Bronze
- Finish: Knox-Coat® Weather resistant proprietary coating system

## Shutdown Switch Box



Tri-Lakes Monument Fire Protection District		
<b>RECEIPT:</b>	<b>DATE: April 21, 2011</b>	
<b>Notes:</b>	<b>The Hideaway</b> 3805 Walker Road Colorado Springs, CO 80908	<input type="checkbox"/> Town Of Monument <input checked="" type="checkbox"/> El Paso County
<b>Name:</b>	<b>The Hideaway</b>	
<b>Address:</b>	<b>3805 Walker Road</b>	
<b>City, ST, ZIP</b>	<b>Colorado Springs, CO 80908</b>	
<b>Phone #:</b>	<b>719-499-7265</b>	
<b>Subdivision:</b>	<b>Interior Remodel</b>	
<b>DESCRIPTION:</b>	<b>UNITS</b>	<b>AMOUNT</b>
<input type="checkbox"/> Donation		
<input type="checkbox"/> EMS Bill		
<input type="checkbox"/> Fire Inspection		
<input type="checkbox"/> Hazmat Bill		
<input type="checkbox"/> Impact Fee- C (\$700.00 per every family dwelling unit equivalent)		
<input type="checkbox"/> Impact Fee -R (\$700.00 per family dwelling unit)		
<input type="checkbox"/> Other		
<input type="checkbox"/> Plan Review R (Residential)		
<input checked="" type="checkbox"/> Plan Review C (Commercial)	1	\$250
<b>Subtotal:</b>		\$250
<b>Total:</b>		\$250
		4/22/11
<b>Customer Signature</b>	<b>TLMFPD Representative/Date of Pick-up</b>	

Questions may be directed to Chief Robert Denboske  
719-266-3367 or Chief@tri-lakesfire.com



## Tri-Lakes Monument Fire Protection District

### Fire Marshal Curtis Kauffman

HEADQUARTERS: 166 2<sup>nd</sup> Street/P.O. Box 2668, Monument, Colorado. 80132  
Bus. #: 719-484-0911, Fax #: 719-481-3456, Cell #: 719-492-0523,  
E-mail: [ckuffman@tri-lakesfire.com](mailto:ckuffman@tri-lakesfire.com)

April 21, 2011

Company: The Hideaway  
C/O: Jason Douglas  
3805 Walker Road  
Colorado Springs, CO 80908  
Company Phone: 719-499-7265  
Email: [Jason@hideawayreservations.com](mailto:Jason@hideawayreservations.com)

RE: Interior Remodel  
3805 Walker Road  
Colorado Springs, CO 80908  
Occupancy type: R-1  
Construction Type: V-B  
Scope of work (SF): 2786

#### REVIEW CRITERIA

This is a review of fire protection and life safety features for the Construction Documents for the Discount Tire Company. The documents were reviewed with the following applicable Codes and Standards:

International Fire Code (IFC) – 2003 Edition

Amendments to the International Fire Code (AIFC) – local Authority Having Jurisdiction (AHJ)

National Fire Protection Association (NFPA) – Various Standards as noted within.

NFPA 72 (2010 Edition) – National Fire Alarm Code

This report pertains only to the fire code review and shall not be considered as the complete plan review report.

#### Administration:

AIFC: Section 101.1 Title. These regulations shall be known as the *Fire Code* of the Falcon Fire Protection District, the **Tri-Lakes Monument Fire Protection District**, the Black Forest Fire Rescue Protection District, the Palmer Lake Volunteer Fire Department, the Wescott Fire Protection District or the Cimarron Hills Fire Protection District as applicable, hereinafter referred to as "this code."

AIFC: Section 101.2.1 Scope. In conjunction with the adoption of the 2003 International Fire Code, the above mentioned Fire Authorities Having Jurisdiction also adopts Appendix A, Appendix B, Appendix C, Appendix D, and Appendix H as amended, as part of the provisions and requirements of this code."

AIFC: Section 106.5 Inspection Requests. It shall be the duty of the person doing the work authorized by a permit to notify the Fire Code Official that the work is ready for inspection. The Fire Code Official is authorized to require that requests for inspection be filed not less than seventy-two hours before the inspection is desired. The requests may be in person or by telephone at the option of the Fire Code Official. It shall be the duty of the person requesting any required inspections to provide access to and means for proper inspection of the work."

**Definitions:**

AIFC: Section 202 General Definitions. "Fire Authority Having Jurisdiction, (F-AHJ)." When the Fire Authority Having Jurisdiction is referred to in the 2003 IFC and this document, it shall refer to the appropriate fire jurisdiction as follows: the Falcon Fire Protection District, the **Tri-Lakes Monument Fire Protection District**, the Black Forest Fire Rescue Protection District, the Palmer Lake Volunteer Fire Department, the Wescott Fire Protection District or the Cimarron Hills Fire Protection District as applicable.

**FIRE SAFETY AND EVACUATION PLANS:**

IFC: 404.1 General.

Fire safety and evacuation plans shall comply with the requirements of this section.

IFC: 404.2 Where required.

An approved fire safety and evacuation plan shall be prepared and maintained for the following occupancies and buildings.

1. Group A, other than Group A occupancies used exclusively for purposes of religious worship that have an occupant load less than 2,000.
2. Group E.
3. Group H.
4. Group I.
5. Group R-1.
6. Group R-4.
7. High-rise buildings.
8. Group M buildings having an occupant load of 500 or more persons or more than 100 persons above or below the lowest level of exit discharge.
9. Covered malls exceeding 50,000 square feet (4645 m2) in aggregate floor area.
10. Underground buildings.
11. Buildings with an atrium and having an occupancy in Group A, E or M.

IFC: 404.3 Contents.

Fire safety and evacuation plan contents shall be in accordance with Sections 404.3.1 and 404.3.2.

IFC: 404.3.1 Fire evacuation plans.

Fire evacuation plans shall include the following:

1. Emergency egress or escape routes and whether evacuation of the building is to be complete or, where approved, by selected floors or areas only.
2. Procedures for employees who must remain to operate critical equipment before evacuating.
3. Procedures for accounting for employees and occupants after evacuation has been completed.
4. Identification and assignment of personnel responsible for rescue or emergency medical aid.
5. The preferred and any alternative means of notifying occupants of a fire or emergency.
6. The preferred and any alternative means of reporting fires and other emergencies to the fire department or designated emergency response organization.
7. Identification and assignment of personnel who can be contacted for further information or explanation of duties under the plan.
8. A description of the emergency voice/alarm communication system alert tone and preprogrammed voice messages, where provided.

IFC: 404.3.2 Fire safety plans.

Fire safety plans shall include the following:

1. The procedure for reporting a fire or other emergency.
2. The life safety strategy and procedures for notifying, relocating, or evacuating occupants.
3. Site plans indicating the following:
  - 3.1. The occupancy assembly point.
  - 3.2. The locations of fire hydrants.
  - 3.3. The normal routes of fire department vehicle access.
4. Floor plans identifying the locations of the following:
  - 4.1. Exits.
  - 4.2. Primary evacuation routes.
  - 4.3. Secondary evacuation routes.
  - 4.4. Accessible egress routes.
  - 4.5. Areas of refuge.
  - 4.6. Manual fire alarm boxes.
  - 4.7. Portable fire extinguishers.
  - 4.8. Occupant-use hose stations.
  - 4.9. Fire alarm annunciators and controls.
5. A list of major fire hazards associated with the normal use and occupancy of the premises, including maintenance and housekeeping procedures.
6. Identification and assignment of personnel responsible for maintenance of systems and equipment installed to prevent or control fires.
7. Identification and assignment of personnel responsible for maintenance, housekeeping and controlling fuel hazard sources.

IFC: 404.4 Maintenance.

Fire safety and evacuation plans shall be reviewed or updated annually or as necessitated by changes in staff assignments, occupancy, or the physical arrangement of the building.

IFC: 404.5 Availability.

Fire safety and evacuation plans shall be available in the workplace for reference and review by employees, and copies shall be furnished to the fire code official for review upon request.

Fire Service Features:

AIFC: Section 506.1 Knox™ Box. On all new and existing commercial buildings as defined by Fire Code Official, or where access to or within a structure or an area is restricted because of secured openings, or where immediate access is necessary for life-saving or fire-fighting purposes, or where a monitored fire alarm system, fire sprinkler system, any other fire suppression systems or elevators exist in the building, a Knox™ box shall be installed in an approved location unless otherwise authorized by the Fire Code Official. Knox™ boxes shall be ordered through the Fire Authority Having Jurisdiction. Knox™ boxes shall contain at least two (2) labeled sets of keys, including but not limited to, keys for access into and through the premises, keys to any secured fire protection systems, and elevators keys. Knox™ Fire Department decals shall be installed as required by the Fire Code Official."

AIFC: Section 510.2 Signage Requirements. The size of all fire department signage that is not specified in this code shall be red letters on a white background, with a minimum letter height of two inches and a one-half inch stroke."

## **Fire Protection Systems:**

Section 901.2 Approved Contractors.

Fire Extinguishers shall be repaired, inspected, tagged, and maintained by a licensed FSC-B, -C, or -D contractor licensed by the Pikes Peak Regional Building Department.

901.4.1 Required fire protection systems. Fire protection systems required by this code or the International Building Code shall be installed, repaired, operated, tested and maintained in accordance with this code.

901.5 Installation acceptance testing. Fire detection and alarm systems, fire-extinguishing systems, fire hydrant systems, fire standpipe systems, fire pump systems, private fire service mains and all other fire protection systems and appurtenances thereto shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing.

901.5.1 Occupancy. It shall be unlawful to occupy any portion of a building or structure until the required fire detection, alarm and suppression systems have been tested and approved.

906.1 Where required, portable fire extinguishers shall be installed in the following locations.

1. In all Group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies.

Exception: In all Group A, B and E occupancies equipped throughout with quick-response sprinklers, fire extinguishers shall be required only in special hazard areas.

2. Within 30 feet (9144 mm) of commercial cooking equipment.

3. In areas where flammable or combustible liquids are stored, used or dispensed.

4. On each floor of structures under construction, except Group R-3 occupancies, in accordance with Section 1415.1.

5. Where required by the sections indicated in Table 906.1.

6. Special-hazard areas, including but not limited to laboratories, computer rooms and generator rooms, where required by the fire code official. **Minimum size of fire extinguishers needs to be 2A:20B; C, a minimum of one fire extinguisher is required in this suite, two is preferred.**

906.3 Size and distribution. For occupancies that involve primarily Class A fire hazards, the minimum sizes and distribution shall comply with Table 906.3(1). Fire extinguishers for occupancies involving flammable or combustible liquids with depths of less than or equal to 0.25-inch (6.35 mm) shall be selected and placed in accordance with Table 906.3(2). Fire extinguishers for occupancies involving flammable or combustible liquids with a depth of greater than 0.25-inch (6.35 mm) or involving combustible metals shall be selected and placed in accordance with NFPA 10. Extinguishers for Class C fire hazards shall be selected and placed on the basis of the anticipated Class A or Class B hazard.

906.5 Conspicuous location. Extinguishers shall be located in conspicuous locations where they will be readily accessible and immediately available for use. These locations shall be along normal paths of travel, unless the fire code official determines that the hazard posed indicates the need for placement away from normal paths of travel.

906.6 Unobstructed and unobscured. Fire extinguishers shall not be obstructed or obscured from view. In rooms or areas in which visual obstruction cannot be completely avoided, means shall be provided to indicate the locations of extinguishers.

906.7 Hangers and brackets. Hand-held portable fire extinguishers, not housed in cabinets, shall be installed on the hangers or brackets supplied. Hangers or brackets shall be securely anchored to the mounting surface in accordance with the manufacturer's installation instructions.

906.8 Cabinets. Cabinets used to house fire extinguishers shall not be locked.

Exceptions:

1. Where fire extinguishers subject to malicious use or damage are provided with a means of ready access.

2. In Group I-3 occupancies and in mental health areas in Group I-2 occupancies, access to portable fire extinguishers shall be permitted to be locked or to be located in staff locations provided the staff has keys.

906.9 Height above floor. Portable fire extinguishers having a gross weight not exceeding 40 pounds (18 kg) shall be installed so that its top is not more than 5 feet (1524 mm) above the floor. Hand-held portable fire extinguishers having a gross weight exceeding 40 pounds (18 kg) shall be installed so that its top is not more than 3.5 feet (1067 mm) above the floor. The clearance between the floor and the bottom of installed hand-held extinguishers shall not be less than 4 inches (102 mm).

### Means of Egress:

IFC: 2.2. A readily visible durable sign is posted on the egress side on or adjacent to the door stating: THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. The sign shall be in letters 1 inch (25 mm) high on a contrasting background.

### Fire Safety During Construction:

IFC: 1410.1 Required access. Approved vehicle access for firefighting shall be provided to all construction or demolition sites. Vehicle access shall be provided to within 100 feet (30 480 mm) of temporary or permanent fire department connections. Vehicle access shall be provided by either temporary or permanent roads, capable of supporting vehicle loading under all weather conditions. Vehicle access shall be maintained until permanent fire apparatus access roads are available.

IFC: 1412.1 When required. An approved water supply for fire protection, either temporary or permanent, shall be made available as soon as combustible material arrives on the site.

IFC: 1414.1 Completion before occupancy. In buildings where an automatic sprinkler system is required by this code or the International Building Code, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved, except as provided in Section 105.3.3.

IFC: 1415.1 Where required. Structures under construction, alteration or demolition shall be provided with not less than one approved portable fire extinguisher in accordance with Section 906 and sized for not less than ordinary hazard as follows:

1. At each stairway on all floor levels where combustible materials have accumulated.
2. In every storage and construction shed.
3. Additional portable fire extinguishers shall be provided where special hazards exist including, but not limited to, the storage and use of flammable and combustible liquids.

#### \*\*\*To be completed.

- 1) All fire extinguishers need to be up to date on testing. All EXIT lights and emergency lights will be tested on the fire final day.
- 2) Order one Knox Box to be installed outside the main front entrance doorway with two master keys that unlock all exterior and interior doors. Pick up order form at the time of picking up the approved plans.
- 3) Place Fire Safety Plans in each room.

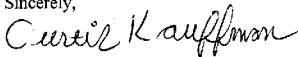
The Fire Codes and amendments to the fire codes can be found at [tri-lakesfire.com](http://tri-lakesfire.com) for further references.

This set of plans has been reviewed and are approved. This letter needs to be on the job site during the construction of this building as this is also your building permit from the local AHJ. Please provide a CD of the plans in CAD format.

A plan review fee of \$250.00 is needed at the time of picking up the approved plans and this letter. Make company check or money order payable to the "Tri-Lakes Monument Fire Protection District". Master Card and Visa are accepted. No cash accepted.

Please feel free to contact me if you have further questions.

Sincerely,



Curtis Kauffman  
Fire Marshal

CODE CYCLE: SELECT ONE **2003 IBC**

**SECTION 1.0**

**PIKES PEAK REGIONAL BUILDING DEPARTMENT  
CODE STUDY FORM**

This form is intended to be completed using Adobe® Acrobat® and must be stamped by the design professional of record. This form must be included as an attachment, or as part of the second page of the plans for all commercial projects. All information must be provided.

Address: 3805 WALKER ROAD City: COLO. SPRGS. Zip: 80908

Tax Schedule Number:<sup>(1)</sup> 61150-00-004

Legal Description:<sup>(1)</sup> SEE SHEET A0

ZONING DISTRICT:<sup>(1)</sup> EL PASO COUNTY

FIRE JURISDICTION:<sup>(1)</sup> TRI-LAKES IF OTHER, SPECIFY

<sup>(1)</sup> This information may be found ~~HERE~~

SCOPE OF PROJECT: Check all that apply

- |                    |                 |            |                             |
|--------------------|-----------------|------------|-----------------------------|
| Foundation Only    | Superstructure  | Core/Shell | Complete (Foundation to CO) |
| ▪ Interior Remodel | Interior Finish | Addition   | ▪ Change of Occupancy       |
| Other              |                 |            |                             |

DESCRIPTION OF WORK:

CONVERSION OF EXISTING R-3 APARTMENT TO R-1 GUEST ROOMS

PRINCIPAL USE OF BUILDING: R-1, HOTEL (TRANSIENT)

TYPE OF CONSTRUCTION: (International Building Code)

- |     |      |       |    |       |
|-----|------|-------|----|-------|
| I-A | II-A | III-A | IV | V-A   |
| I-B | II-B | III-B |    | ▪ V-B |

BUILDING AREAS:<sup>(1)</sup>

BUILDING HEIGHT<sup>(1)</sup>:

Total Building Area:	10130	ft <sup>2</sup>	Total Height:	27 (APPROX.) ft
Existing Building Area:	10130	ft <sup>2</sup>	Number of Stories:	2
New Building Area:		ft <sup>2</sup>	Number of Basements:	1
Mezzanine Area:		ft <sup>2</sup>	Number of Mezzanines:	
Total area for scope of work:	2786	ft <sup>2</sup>		

<sup>(1)</sup> Provide calculations for all areas, heights, and weights. BOBCC calculation on plans if applicable

SEPARATION OF OCCUPANCIES:

- |                    |                  |                      |
|--------------------|------------------|----------------------|
| Non-Separated Uses | ▪ Separated Uses | No Mixed Occupancies |
|--------------------|------------------|----------------------|

If Non-Separated Uses, specify worst case occupancy classification:

**Released for Permit**  
APR 01 2010  
A/E  
RBD Construction



SECTION 2.0  
**PIKES PEAK REGIONAL BUILDING DEPARTMENT**  
**CODE STUDY FORM**

**OCCUPANCY(S):** (list square footage of each occupancy)

A-1	ft <sup>2</sup>	F-1	ft <sup>2</sup>	I-1	ft <sup>2</sup>	R-3	ft <sup>2</sup>
A-2	ft <sup>2</sup>	F-2	ft <sup>2</sup>	I-2	ft <sup>2</sup>	R-4	ft <sup>2</sup>
A-3	1228	H-1	ft <sup>2</sup>	I-3	ft <sup>2</sup>	S-1	ft <sup>2</sup>
A-4	ft <sup>2</sup>	H-2	ft <sup>2</sup>	I-4	ft <sup>2</sup>	S-2	ft <sup>2</sup>
A-5	ft <sup>2</sup>	H-3	ft <sup>2</sup>	M	ft <sup>2</sup>	U	ft <sup>2</sup>
B	6320	H-4	ft <sup>2</sup>	R-1	11304	ft <sup>2</sup>	
E	ft <sup>2</sup>	H-5	ft <sup>2</sup>	R-2	ft <sup>2</sup>		

**INCIDENTAL USE AREAS:** List any incidental use areas and separation requirements.

Use: \_\_\_\_\_ Separation: \_\_\_\_\_ hrs  
 Use: \_\_\_\_\_ Separation: \_\_\_\_\_ hrs

**ACCESSORY USE AREAS:**

Accessory Use Occupancy: \_\_\_\_\_ Accessory Use Area: \_\_\_\_\_ ft<sup>2</sup>  
 Accessory Use Occupancy: \_\_\_\_\_ Accessory Use Area: \_\_\_\_\_ ft<sup>2</sup>  
 Accessory Use Occupancy: \_\_\_\_\_ Accessory Use Area: \_\_\_\_\_ ft<sup>2</sup>

**FIRE SPRINKLER SYSTEM:**

Non-Sprinklered Building  
 Sprinklered Building Reason: SELECT ONE

**CLASSIFICATION OF FIRE SPRINKLER SYSTEM:** N/A

**FIRE ALARM SYSTEM:**

Not Required  
 Required Type: SELECT ONE

**MEANS OF EGRESS:** For scope of work

Exits Required: 2 ✓ Exits Provided: 3  
 Occupant Load: 14 ✓ Number of Exit Enclosures:  
 Max. Travel Distance: \_\_\_\_\_ ft Exit Enclosure Rating: \_\_\_\_\_ hrs  
 Common Path of Travel: \_\_\_\_\_ ft Number of Fire Walls:  
 Corridor Rating: \_\_\_\_\_ hrs Fire Wall Rating: \_\_\_\_\_ hrs

**SHAFTS:** If this building contains shafts, specify shaft support

Shaft Construction Rating: \_\_\_\_\_ hrs Supporting Construction Rating: \_\_\_\_\_ hrs

**RATED HORIZONTAL ASSEMBLIES:** Location, if applicable

Structure \_\_\_\_\_ Dropped Ceiling \_\_\_\_\_

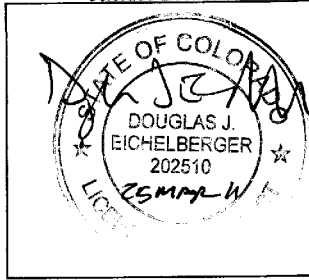
Released For Permit

APR 01 2011

AJE  
 RBD Construction

SECTION 3.0  
PIKES PEAK REGIONAL BUILDING DEPARTMENT  
CODE STUDY FORM

Colorado Licensed Design



Professional Stamp

As the design professional of record I certify this information is correct to the best of my knowledge. I further acknowledge my stamp pertains to sections 1.0 through 2.0 only.

Name:

*Douglas J. Eichelberger*

Date:

*25 MAR 11*

A Life Safety Plan that meets the criteria of Pikes Peak Regional Building Department must also be submitted for all plans using the parallel plan review process. This document can be located under the "Plan Review" menu at <http://www.pprbd.org/> or accessed [HERE](#). All information requested must be submitted in order for plans to be reviewed.

POINT OF CONTACT:

Project Contact: DOUGLAS EICHELBERGER    Office Phone: 303-688-5211  
Email Address: luckyranch@aol.com    Cell: 303-956-5859  
Fax:

Released for Permit  
APR 01 2011  
AJE  
RBD Construction

**SECTION 4.0**  
**Pikes Peak Regional Building Department**  
**CODE STUDY FORM**

**CONSTRUCTION INFORMATION:**

	Yes	No
Does the scope of work involve a change of occupancy classification?	X	
What was the most recent use at this location?		
Will marijuana be cultivated, processed or dispensed at this location?		X
If applicable, is the approved Development Plan included with this submittal?		
Is the project adjacent to an arterial street of 4 lanes or more?		X
Does the scope of work include an elevator?		X
Is this a food establishment (equipment locations must be shown on plans)?		X
Does the scope of work include a swimming pool?		X
Does the scope of work have venting equipment (hoods, catalytic oxidizers, scrubbers)?		X
If applicable, are the approved civil construction drawings (including utility service plan) included in submittal?		X
Will there be any new utility meters or changes to existing meters?		X
If yes, which are affected (check): <b>Gas</b> <b>Electric</b> <b>Water</b>		
Gas:      Existing load      Proposed load		
Electric:      Existing load      Proposed load		
Water:      Existing load      Proposed load		
<small>Gas, Electric, and Water meters are required for all projects. If any changes to a meter are proposed, the meter must be replaced with a new meter.</small>		
Will vehicle maintenance or vehicle storage (parking garage) activities occur?		X
If yes, state square footage of area this will occur:		
Is a sand/oil or grease interceptor proposed?		X
If yes, state size:		
Is an internal grease trap proposed? <i>If yes, contact Kim Caltrider with CSU @ 668-4506 to discuss variance</i>		X
Is there a backflow prevention device indicated (hose bib locations must be shown on plan)?		
Is the fire flow report (modeled by CSU) included?		X
Per IFC Chapter 27, does the scope of work include any hazardous materials?		X
If the project is located within the City of Colorado Springs, attach a Hazardous Material Inventory Statement (HMIS) – available at <a href="http://csfd.springsgov.com/hamish/">http://csfd.springsgov.com/hamish/</a>		
If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction		
Per IFC Chapter 23, does the scope of work involve the stacking of commodities higher than 12' or high hazard commodities higher than 6' AFF?		X
If the project is located within the City of Colorado Springs, attach a High Pile Storage of Combustible Commodities form – available at <a href="http://springsgov.com/Page.asp?NavID=1203">http://springsgov.com/Page.asp?NavID=1203</a>		
If the project is outside the City of Colorado Springs, contact the appropriate Fire Jurisdiction		
Per IFC 905, does the scope of work require fire protection standpipes?		X
If yes, indicate reason and cite code reference:		
Per IBC 904, does the scope of work or building require a fixed fire protection system?		
Per IBC 909, does the scope of work include a smoke control system?		X
If yes, indicate type (check): <b>Passive</b> <b>Active</b>		
Per IBC 403, is this building considered a High-Rise Building?		X

CODE CYCLE: SELECT ONE 2003 IBC?

fax 327-2988

Jan Myers

# SECTION 1.0 PIKES PEAK REGIONAL BUILDING DEPARTMENT CODE STUDY FORM

This form is intended to be completed using Adobe® Acrobat® and must be stamped by the design professional of record. This form must be included as an attachment, or as part of the second page of the plans for all commercial projects. All information must be provided.

59378

Address: 3805 WALKER RD City: WOOD, SPMS. Zip: 80908  
Tax Schedule Number: 64081003 61150-00-004  
Legal Description: SEE DRAWINGS FOR LEGAL

ZONING DISTRICT: SELECT ONE E1 1000 CO  
FIRE JURISDICTION: SELECT ONE TRUCKS FIRE IF OTHER, SPECIFY \_\_\_\_\_  
(1) This information may be found HERE

SCOPE OF PROJECT: Check all that apply

- Foundation Only
- Interior Remodel
- Other
- Superstructure
- Interior Finish
- Core/Shell
- Addition
- Complete (Foundation to CO)
- Change of Occupancy

DESCRIPTION OF WORK:

CONVERTING AN EXISTING R-3 APARTMENT INTO R-1 GUEST ROOMS

PRINCIPAL USE OF BUILDING: R-1, HOTEL (TRANSIENT)

TYPE OF CONSTRUCTION: (International Building Code)

- I-A
- I-B
- II-A
- II-B
- III-A
- III-B
- IV
- V-A
- V-B

BUILDING AREAS\*: (per floor)

Total Building Area: 4984 ft<sup>2</sup>

Existing Building Area: 4984 ft<sup>2</sup>

New Building Area: \_\_\_\_\_ ft<sup>2</sup>

Mezzanine Area: \_\_\_\_\_ ft<sup>2</sup>

Total area for scope of work: 2780 ft<sup>2</sup>

BUILDING HEIGHT\*:

Total Height: \_\_\_\_\_

Number of Stories: \_\_\_\_\_

Number of Basements: 0

Number of Mezzanines: \_\_\_\_\_

27'6"  
TH

\*Provide per floor details, height increase (IBC 504), and area increase (IBC 506) calculator

SEPARATION OF OCCUPANCIES:

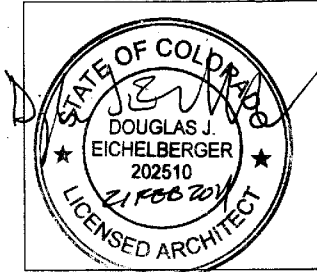
- Non-Separated Uses
- Separated Uses

If Non-Separated Uses, specify worst case occupancy classification

this building contains s

**SECTION 3.0**  
**PIKES PEAK REGIONAL BUILDING DEPARTMENT**  
**CODE STUDY FORM**

*Colorado Licensed Design*



*Professional Stamp*

As the design professional of record I certify this information is correct to the best of my knowledge. I further acknowledge my stamp pertains to sections 1.0 through 2.0 only.

Douglas J. Eichelberger

Name:

21 FEB 2011

Date:

A Life Safety Plan that meets the criteria of Pikes Peak Regional Building Department must also be submitted for all plans using the parallel plan review process. This document can be located under the "Plan Review" menu at <http://www.pprbd.org/> or accessed HERE. All information requested must be submitted in order for plans to be reviewed.

**POINT OF CONTACT:**

Project Contact:	<input type="text"/>	Office Phone:	<input type="text"/>
Email Address:	<input type="text"/>	Cell:	<input type="text"/>
		Fax:	<input type="text"/>



# COMcheck Software Version 3.8.1 Interior Lighting Compliance Certificate

2003 IECC

## Section 1: Project Information

Project Type: **New Construction**

Project Title : The Hideaway Retreat Center

Construction Site:  
3805 Walker Road  
Colorado Springs, CO

Owner/Agent:  
Alan Ely  
DMCE  
5737 W. 6th Ave.  
Lakewood, CO 80214  
303.421.3208  
alan@dmce.com

Designer/Contractor:

## Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B x C)
Lobby - Hotel	116	1.1	128
Corridor, Restroom, Support Area	406	0.9	365
Dining	505	0.9	455
Storage, Industrial and Commercial	26	0.8	21
Total Allowed Watts =			968

## Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<b>Lobby - Hotel (116 sq.ft.)</b>				
Incandescent 4 copy 1: Existing Can / Incandescent 60W	1	3	60	180
<b>Corridor, Restroom, Support Area (406 sq.ft.)</b>				
Incandescent 2: C: Incandescent 60W	1	1	29	29
Incandescent 3: A: Incandescent 65W	1	1	65	65
Incandescent 4: Existing Can / Incandescent 60W	1	4	29	116
<b>Dining (505 sq.ft.)</b>				
Incandescent 2 copy 1: C: Incandescent 60W	1	4	29	116
Incandescent 4 copy 1: Existing Can / Incandescent 60W	1	5	60	300
Incandescent 3 copy 1: A: Incandescent 65W	1	1	29	29
<b>Storage, Industrial and Commercial (26 sq.ft.)</b>				
Incandescent 1: G: Incandescent 60W	1	1	60	60
Total Proposed Watts =				895

## Section 4: Requirements Checklist

### Lighting Wattage:

1. Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
968	895	YES

Released for Permit

APR 05 2011

SLE  
RBD Electrical

- 2. Exit signs 5 Watts or less per sign.

**Exterior Lighting:**

- 3. Efficacy greater than 45 lumens/W.

*Exceptions:*

- Specialized lighting highlighting features of historic buildings; signage; safety or security lighting; low-voltage landscape lighting.

**Controls, Switching, and Wiring:**

- 4. Independent controls for each space (switch/occupancy sensor).

*Exceptions:*

- Areas designated as security or emergency areas that must be continuously illuminated.
- Lighting in stairways or corridors that are elements of the means of egress.
- 5. Master switch at entry to hotel/motel guest room.
- 6. Individual dwelling units separately metered.
- 7. Each space provided with a manual control to provide uniform light reduction by at least 50 percent.

*Exceptions:*

- Only one luminaire in space.
- An occupant-sensing device controls the area.
- The area is a corridor, storeroom, restroom, public lobby or guest room.
- Areas that use less than 0.6 Watts/sq.ft.
- 8. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

*Exceptions:*

- Areas with only one luminaire, corridors, storerooms, restrooms, or public lobbies.
- 9. Photocell/astronomical time switch on exterior lights.

*Exceptions:*

- Lighting intended for 24 hour use.
- 10. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

*Exceptions:*

- Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

**Interior Lighting PASSES: Design 3% better than code.**

**Section 5: Compliance Statement**

*Compliance Statement:* The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2003 IECC, Chapter 8, requirements in COMcheck Version 3.8.1 and to comply with the mandatory requirements in the Requirements Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



MAR 22 2011

Released for Permit

APR 05 2011

SLE  
RBD Electrical



March 22, 2011

Pikes Peak Regional Building Department  
2880 International Circle  
Colorado Springs, CO 80910

JN 1007

RE: C 59378  
The Hiway Retreat Center - 3805 Walker Rd.

MECHANICAL:

- Item #1: *It appears dryer vent exceeds allowable length per '03 IMC, how complying with the code?*
- Response: **Dryer vent meets manufacturer's requirements for venting, see attached cut sheets.**
- Item #2: *Need to provide minimum 100 square inch makeup air opening into laundry room from an area of 500 square feet or larger, how complying?*
- Response: **Combustion air openings are added for the gas appliances per revised drawing M2.0, so makeup air for dryer will be from the outside air intake.**
- Item #3: *Need concrete pad for relocated condensing unit?*
- Response: **Concrete pad added, see revised drawing M2.1.**
- Item #4: *Need to verify a 120 v service outlet within 25 feet of condensing unit.*
- Response: **Service outlet is added, see revised electrical drawing E2.2.**
- Item #5: *Need to show gas meter along with a gas piping plan or isometric showing gas pipe sizes to verify adequate per '03 IFGC Table 402.4(2).*
- Response: **Gas meter location and piping plan shown on revised drawing P2.0 & gas piping isometric is added to revised drawing P1.0.**
- Item #6: *How providing combustion air requirements for all gas fired appliances in mech room.*
- Response: **Combustion air openings are added for the gas appliances per revised drawing M2.0.**



PLUMBING:

Item #1: *Provide water pipe size analysis on plans, the required mop sink not on plans.*

Response: **See water piping flatometric shown on drawing P1.0.**

Item #2: *The required mop sink not on plans.*

Response: **Mop sink added to revised drawing P2.0.**

Item #3: *Need health approval has septic and well.*

Response: **See attached letter.**

ELECTRICAL:

Item #1: Feeder for panel B incorrect.

Response: **Panel B feeder revised on drawing E1.0.**

Item #2: Label all Electrical equipment in common area with panel and circuit.

Response: **Circuits shown for Electrical equipment on drawing E2.2.**

Item #3: Provide IECC calculation for common areas.

Response: **IECC Calculation attached.**

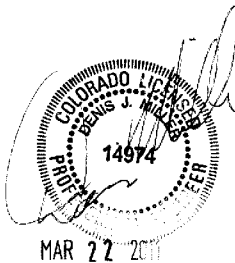
If you have any questions, please contact me at your earliest convenience.

Sincerely,

DMCE ENGINEERING

Denis Miller, PE

DM/RJW/BJW/RW/btw/3-22-11 Building Review Responses.doc



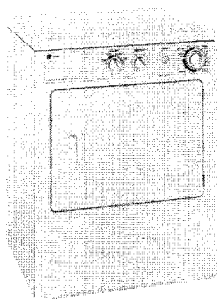
# HIDEAWAY

# GE DPXH46GAWW

## GE Profile™ 5.7 Cu. Ft. Extra-Large Capacity Frontload Gas Dryer



Model# DPXH46GAWW



- Rotary Mechanical Controls - Are straightforward and easy to turn
- Sensor Dry™ - Continually monitors moisture content to help prevent clothing wear and tear
- Painted Drum - Painted drum coated with a rustproof finish to stand up to heavy use
- Fixed End-Of-Cycle Signal - Alerts you when the cycle is done, saving time between loads
- Six dry cycles - Flexible options for drying, dewrinkling and fluffing
- - Under the Counter and Stacked Installation Options
- GE Pedestal (model number FPDW1) available at additional cost - 12" H x 27" W x 24-3/8" D; White

### FEATURES

Temperature Options	Regular/Medium/Low/Air Fluff (No Heat)
Control Location	Front
Control Type	Rotary Knobs
Heat Selections	4
Moisture Sensor	Sensor Dry™
Additional Cycles	Cool Down
Timed Dry	Regular
Tumble Drying	Yes
Wrinkle Care Cycle	2
Number of Cycles	6 (5 Auto Dry / 1 Time Dry)
Drum Type	Dura Finish
Exhaust Options	3-Way (Rear; Left; Bottom)
Flexible Installation	Undercounter, Stacked, Side-by-Side
Fuel Type	Gas
Leveling System	Leveling Legs
Additional Dryer Features	Front Serviceable Dryer Rack
Dryer Control Features	ColorLogic™ 2000
Auto Dry	Regular Knits/Delicates Permanent Press

Have more questions? Please contact 1-800-626-2005

# GE Profile™ 5.7 Cu. Ft. Extra-Large Capacity Frontload Gas Dryer



Model# DPXH46GAWW

## APPROXIMATE DIMENSIONS (HxDxW)

- 36 in x 25 3/4 in x 26 7/8 in

## CAPACITY

- Total Capacity (cubic feet) 5.7 cu ft
- Unit Capacity Extra-Large

## Claims & Certifications

- ADA Compliant

## WARRANTY

- Labor Warranty - Limited 1-year entire appliance
- Parts Warranty - Limited 2-year entire appliance
- Warranty Notes - For models produced on or after January 1, 2006

See written warranty for full details

Have more questions? Please contact 1-800-626-2005

## Installation Instructions

### EXHAUST SYSTEM CHECKLIST

#### HOOD OR WALL CAP

- Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
- Termination should present minimal resistance to the exhaust airflow and should require little or no maintenance to prevent clogging.
- Never install a screen in or over the exhaust duct.
- Wall caps must be installed at least 12" above ground level or any other obstruction with the opening pointed down.

#### SEPARATION OF TURNS

- For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and dampened wall cap.

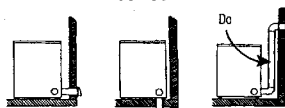
#### SEALING OF JOINTS

- All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
- Do not assemble the ductwork with fasteners that extend into the duct. They will serve as a collection point for lint.
- Duct joints should be made air- and moisture-tight by wrapping the overlapped joints with duct tape or aluminum tape.
- Horizontal runs should slope down towards the outdoors 1/4" per foot.

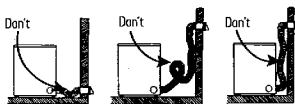
#### INSULATION

- Ductwork that runs through an unheated area or is near air conditioning should be insulated to reduce condensation and lint buildup.

#### Correct



#### Incorrect



### ⚠ WARNING To reduce the risk of fire or personal injury:

- This clothes dryer must be exhausted to the outdoors.
- Use only 4" rigid metal ducting for the home exhaust duct.
- Use only 4" rigid metal or UL-listed flexible metal (semi-rigid or foil-type) duct to connect the dryer to the home exhaust duct. It must be installed in accordance with the instructions found in "Connecting The Dryer To House Vent" on this page.
- Do not terminate exhaust in a chimney, a wall, a ceiling, gas vent, crawl space, attic, under an enclosed floor, or in any other concealed space of a building.

### ⚠ WARNING

- Never terminate the exhaust into a common duct with a kitchen exhaust system. A combination of grease and lint creates a potential fire hazard.
- Do not use duct longer than specified in the exhaust length table. Longer ducts can accumulate lint, creating a potential fire hazard.
- Never install a screen in or over the exhaust duct. This will cause lint to accumulate, creating a potential fire hazard.
- Do not assemble ductwork with any fasteners that extend into the duct. These fasteners can accumulate lint, creating a potential fire hazard.
- Do not obstruct incoming or exhausted air.
- Provide an access for inspection and cleaning of the exhaust system, especially at turns and joints. Exhaust system shall be inspected and cleaned at least once a year.

### CONNECTING THE DRYER TO HOUSE VENT

#### RIGID METAL TRANSITION DUCT

- For best drying performance, a rigid metal transition duct is recommended.
- Rigid metal transition ducts reduce the risk of crushing and kinking.

#### UL-LISTED FLEXIBLE METAL (SEMI-RIGID) TRANSITION DUCT

- If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077).
- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4 m).
- For many applications, installing elbows at both the dryer and the wall is highly recommended (see illustrations at left). Elbows allow the dryer to sit close to the wall without kinking and/or crushing the transition duct, maximizing drying performance.
- Avoid resting the duct on sharp objects.

#### UL-LISTED FLEXIBLE METAL (FOIL-TYPE) TRANSITION DUCT

- In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct.
- In Canada and the United States, only the flexible metal (foil-type) ducts that comply with the "Outline for Clothes Dryer Transition Duct Subject 2158A" shall be used.

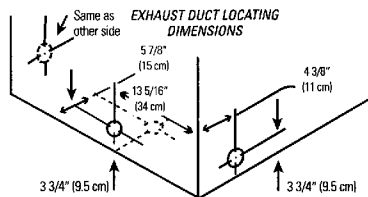
# Installation Instructions

## CONNECTING THE DRYER TO HOUSE VENT (CONT.)

- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4 m).
- Avoid resting the duct on sharp objects.
- For best drying performance:
  1. Slide one end of the duct over the clothes dryer outlet pipe.
  2. Secure the duct with a clamp.
  3. With the dryer in its permanent position, extend the duct to its full length. Allow 2" of duct to overlap the exhaust pipe. Cut off and remove excess duct. Keep the duct as straight as possible for maximum airflow.
  4. Secure the duct to the exhaust pipe with the other clamp.

## EXHAUST DIRECTION

All dryers are shipped set up for rear exhausting. On electric dryers, exhausting can be on the cabinet right or left side, or through the dryer bottom. Gas dryers can exhaust on the cabinet right side or the dryer bottom. To change exhaust direction you will need Exhaust Kit Pub. No. 14-A018 and a rigid metal 4" 90-degree elbow. The kit is available through your GE retailer. Follow the instructions supplied with the kit.



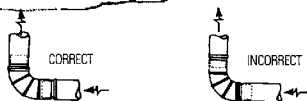
## EXHAUST DUCTING LENGTH

The exhaust system should be inspected and cleaned a minimum of every year with normal usage. The more the dryer is used, the more often you should check the exhaust system and vent hood for proper operation.

- **DO NOT** assemble the duct work with fasteners that extend into the duct. They will serve as collection points for lint.
- Insulation – Ductwork which runs through an unheated area or is near an air conditioning duct should be insulated to reduce condensation and lint buildup.

MAXIMUM LENGTH of 4" (10.2 cm) Dia. RIGID METAL DUCT		
PREFERRED VENT HOOD TYPE		
	4" (10.2 cm) Lowered	2 1/2" (6.35 cm)
Number of 90° turns		
0	60' (18.28 m)	48' (14.63 m)
1	52' (15.84 m)	40' (12.19 m)
2	44' (13.41 m)	32' (9.75 m)
3	32' (9.75 m)	24' (7.31 m)
4	28' (8.53 m)	16' (4.87 m)

INSTALL MALE FITTINGS IN CORRECT DIRECTION



## GAS SUPPLY REQUIREMENTS

Replace brass connecting pipe that is not plastic-coated. Stainless steel or plastic-coated brass **MUST** be used.

**▲ WARNING:** Never reuse old flexible connectors. The use of old flexible connectors can cause gas leaks and personal injury. Always use **NEW** flexible connectors when installing a gas appliance.

1. Installation **MUST** conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 (latest edition) or in Canada, the current CAN/CGA B149.
2. The gas supply line should be of 1/2" (1.27 cm) rigid pipe.
3. If codes allow, flexible metal tubing may be used to connect your dryer to the gas supply line. The tubing **MUST** be constructed of stainless steel or plastic-coated brass.
4. The gas supply line **MUST** have an individual shutoff valve.
5. A 1/8" (0.32 cm) NPT plugged tapping, accessible for test gauge connection, **MUST** be installed immediately upstream of the gas supply connection to the dryer.
6. The dryer **MUST** be disconnected from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures in excess of 1/2 psig (3.45 kPa).
7. The dryer **MUST** be isolated from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa).

**brenton**

---

**From:** Jason Douglas [jason@hideawayreservations.com]

**Sent:** Thursday, March 10, 2011 3:46 PM

**To:** Brenton Wartner

**Subject:** Re: Hideaway

Yes I do:

The well is registered with the state as a transient non-community commercial well.

Permit # - CO0221338

Water enters the building at 18 gpm and is treated, then fills a 300 gallon tank.

It is then pumped at 45 gpm to a 75 gallon pressure tank.

From the pressure tank, it is dispersed to the building. The 1" pipe going to the additional building comes directly off the 75 gal pressure tank.

Let me know if you need anything else.

Jason Douglas



RETREATS · REUNIONS · MEETINGS

719 481 2083 office

719 488 2353 fax

[jason@hideawayreservations.com](mailto:jason@hideawayreservations.com)

[www.hideawayreservations.com](http://www.hideawayreservations.com)

3/10/2011



March 22, 2011

Pikes Peak Regional Building Department  
2880 International Circle  
Colorado Springs, CO 80910

JN 1007

RE: C 59378  
The Hiway Retreat Center - 3805 Walker Rd.

MECHANICAL:

- Item #1: *If appears dryer vent exceeds allowable length per '03 IMC, how complying with the code?*
- Response: **Dryer vent meets manufacturer's requirements for venting, see attached cut sheets.** - *Doesn't meet Code - See M1.0*
- Item #2: *Need to provide minimum 100 square inch makeup air opening into laundry room from an area of 500 square feet or larger, how complying?*
- Response: **Combustion air openings are added for the gas appliances per revised drawing M2.0, so makeup air for dryer will be from the outside air intake.**
- Item #3: *Need concrete pad for relocated condensing unit?*
- Response: **Concrete pad added, see revised drawing M2.1.**
- Item #4: *Need to verify a 120 v service outlet within 25 feet of condensing unit.*
- Response: **Service outlet is added, see revised electrical drawing E2.2.**
- Item #5: *Need to show gas meter along with a gas piping plan or isometric showing gas pipe sizes to verify adequate per '03 IFGC Table 402.4(2).*
- Response: **Gas meter location and piping plan shown on revised drawing P2.0 & gas piping isometric is added to revised drawing P1.0.**
- Item #6: *How providing combustion air requirements for all gas fired appliances in mech room.*
- Response: **Combustion air openings are added for the gas appliances per revised drawing M2.0.**

PLUMBING:

Item #1: *Provide water pipe size analysis on plans, the required mop sink not on plans.*

Response: **See water piping flatometric shown on drawing P1.0.**

Item #2: *The required mop sink not on plans.*

Response: **Mop sink added to revised drawing P2.0.**

Item #3: *Need health approval has septic and well.*

Response: **See attached letter.**

ELECTRICAL:

Item #1: Feeder for panel B incorrect.

Response: **Panel B feeder revised on drawing E1.0.**

Item #2: Label all Electrical equipment in common area with panel and circuit.

Response: **Circuits shown for Electrical equipment on drawing E2.2.**

Item #3: Provide IECC calculation for common areas.

Response: **IECC Calculation attached.**

If you have any questions, please contact me at your earliest convenience.

Sincerely,

DMCE ENGINEERING

Denis Miller, PE

DM/RJW/BJW/RW/blw/3-22-11 Building Review Responses.doc

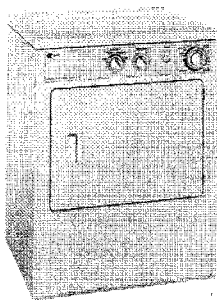


## GE Profile™ 5.7 Cu. Ft. Extra-Large Capacity Frontload Gas Dryer



Profile™

Model# DPXH46GAWW



- Rotary Mechanical Controls - Are straightforward and easy to turn
- Sensor Dry™ - Continually monitors moisture content to help prevent clothing wear and tear
- Painted Drum - Painted drum coated with a rustproof finish to stand up to heavy use
- Fixed End-Of-Cycle Signal - Alerts you when the cycle is done, saving time between loads
- Six dry cycles - Flexible options for drying, dewrinkling and fluffing
- - Under the Counter and Stacked Installation Options
- GE Pedestal (model number FPDW1) available at additional cost - 12" H x 27" W x 24-3/8" D; White

## FEATURES

Temperature Controls	Reg./Normal/Extra Dry/Fluffing/Steam
Control Location	Front
Control Type	Rotary/Knobs
Heat Selections	4
Moisture Sensor	Sensor Dry™
Additional Cycles	Cool Down
Fixed End-Of-Cycle Signal	Yes
Tumble Drying	Yes
Wrinkle-Free Cycle	Yes
Number of Cycles	6 (5 Auto Dry / 1 Time Dry)
Drum Type	Painted
Exhaust Options	3-Way (Rear; Left; Bottom)
Exhaust Controls	None
Fuel Type	Gas
Additional Dryer Features	Front Serviceable Dryer Rack
Other Available Features	None
Auto Dry	Regular Knits/Delicates Permanent Press

# GE Profile™ 5.7 Cu. Ft. Extra-Large Capacity Frontload Gas Dryer



Model# DPXH46GAWW

---

#### APPROXIMATE DIMENSIONS (HxDxW)

- 36 in x 25 3/4 in x 26 7/8 in

#### CAPACITY

- Total Capacity (cubic feet) 5.7 cu ft
- Unit Capacity Extra-Large

#### Claims & Certifications

- ADA Compliant

#### WARRANTY

- Labor Warranty - Limited 1-year entire appliance
- Parts Warranty - Limited 2-year entire appliance
- Warranty Notes - For models produced on or after January 1, 2006

See written warranty for full details

## Installation Instructions

### EXHAUST SYSTEM CHECKLIST

#### HOOD OR WALL CAP

- Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
- Termination should present minimal resistance to the exhaust airflow and should require little or no maintenance to prevent clogging.
- Never install a screen in or over the exhaust duct.
- Wall caps must be installed at least 12" above ground level or any other obstruction with the opening pointed down.

#### SEPARATION OF TURNS

- For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and dampened wall cap.

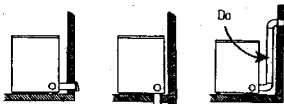
#### SEALING OF JOINTS

- All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
- Do not assemble the ductwork with fasteners that extend into the duct. They will serve as a collection point for lint.
- Duct joints should be made air- and moisture-tight by wrapping the overlapped joints with duct tape or aluminum tape.
- Horizontal runs should slope down towards the outdoors 1/4" per foot.

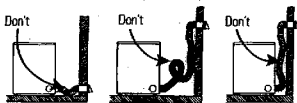
#### INSULATION

- Ductwork that runs through an unheated area or is near air conditioning should be insulated to reduce condensation and lint buildup.

#### Correct



#### Incorrect



### ⚠ WARNING To reduce the risk of fire or personal injury:

- This clothes dryer must be exhausted to the outdoors.
- Use only 4" rigid metal ducting for the home exhaust duct.
- Use only 4" rigid metal or UL-listed flexible metal (semi-rigid or foil-type) duct to connect the dryer to the home exhaust duct. It must be installed in accordance with the instructions found in "Connecting The Dryer To House Vent" on this page.
- Do not terminate exhaust in a chimney, a wall, a ceiling, gas vent, crawl space, attic, under an enclosed floor, or in any other concealed space of a building.

### ⚠ WARNING

- Never terminate the exhaust into a common duct with a kitchen exhaust system. A combination of grease and lint creates a potential fire hazard.
- Do not use duct longer than specified in the exhaust length table. Longer ducts can accumulate lint, creating a potential fire hazard.
- Never install a screen in or over the exhaust duct. This will cause lint to accumulate, creating a potential fire hazard.
- Do not assemble ductwork with any fasteners that extend into the duct. These fasteners can accumulate lint, creating a potential fire hazard.
- Do not obstruct incoming or exhausted air.
- Provide an access for inspection and cleaning of the exhaust system, especially at turns and joints. Exhaust system shall be inspected and cleaned at least once a year.

### CONNECTING THE DRYER TO HOUSE VENT

#### RIGID METAL TRANSITION DUCT

- For best drying performance, a rigid metal transition duct is recommended.
- Rigid metal transition ducts reduce the risk of crushing and kinking.

#### UL-LISTED FLEXIBLE METAL (SEMI-RIGID) TRANSITION DUCT

- If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08XC10077).
- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4 m).
- For many applications, installing elbows at both the dryer and the wall is highly recommended (see illustrations at left). Elbows allow the dryer to sit close to the wall without kinking and/or crushing the transition duct, maximizing drying performance.
- Avoid resting the duct on sharp objects.

#### UL-LISTED FLEXIBLE METAL (FOIL-TYPE) TRANSITION DUCT

- In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct.
- In Canada and the United States, only the flexible metal (foil-type) ducts that comply with the "Outline for Clothes Dryer Transition Duct Subject 2158A" shall be used.

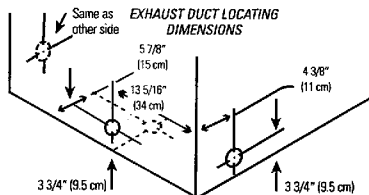
# Installation Instructions

## CONNECTING THE DRYER TO HOUSE VENT (CONT.)

- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4 m).
- Avoid resting the duct on sharp objects.
- For best drying performance:
  1. Slide one end of the duct over the clothes dryer outlet pipe.
  2. Secure the duct with a clamp.
  3. With the dryer in its permanent position, extend the duct to its full length. Allow 2" of duct to overlap the exhaust pipe. Cut off and remove excess duct. Keep the duct as straight as possible for maximum airflow.
  4. Secure the duct to the exhaust pipe with the other clamp.

## EXHAUST DIRECTION

All dryers are shipped set up for rear exhausting. On electric dryers, exhausting can be on the cabinet right or left side, or through the dryer bottom. Gas dryers can exhaust on the cabinet right side or the dryer bottom. To change exhaust direction you will need Exhaust Kit Pub. No. 14A018 and a rigid metal 4" 90-degree elbow. The kit is available through your CE retailer. Follow the instructions supplied with the kit.



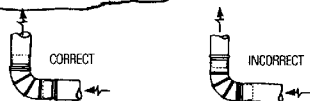
## EXHAUST DUCTING LENGTH

The exhaust system should be inspected and cleaned a minimum of every year with normal usage. The more the dryer is used, the more often you should check the exhaust system and vent hood for proper operation.

- **DO NOT** assemble the duct work with fasteners that extend into the duct. They will serve as collection points for lint.
- Insulation – Ductwork which runs through an unheated area or is near an air conditioning duct should be insulated to reduce condensation and lint buildup.

MAXIMUM LENGTH of 4" (10.2 cm) Dia. RIGID METAL DUCT			
PREFERRED VENT HOOD TYPE			
Number of 90° turns	4" (10.2 cm)	Louvered	2 1/2" (6.35 cm)
	0	60' (18.28 m)	48' (14.63 m)
1	52' (15.84 m)	40' (12.19 m)	
2	44' (13.41 m)	32' (9.75 m)	
3	32' (9.75 m)	24' (7.31 m)	
4	28' (8.53 m)	16' (4.87 m)	

INSTALL MALE FITTINGS IN CORRECT DIRECTION



## GAS SUPPLY REQUIREMENTS

Replace brass connecting pipe that is not plastic-coated. Stainless steel or plastic-coated brass **MUST** be used.

**⚠ WARNING:** Never reuse old flexible connectors. The use of old flexible connectors can cause gas leaks and personal injury. Always use **NEW** flexible connectors when installing a gas appliance.

1. Installation **MUST** conform with local codes, or in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1 (latest edition) or in Canada, the current CAN/CGA B149.
2. The gas supply line should be of 1/2" (1.27 cm) rigid pipe.
3. If codes allow, flexible metal tubing may be used to connect your dryer to the gas supply line. The tubing **MUST** be constructed of stainless steel or plastic-coated brass.
4. The gas supply line **MUST** have an individual shutoff valve.
5. A 1/8" (0.32 cm) NPT plugged tapping, accessible for test gauge connection, **MUST** be installed immediately upstream of the gas supply connection to the dryer.
6. The dryer **MUST** be disconnected from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures in excess of 1/2 psig (3.45 kPa).
7. The dryer **MUST** be isolated from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa).

**brenton**

---

**From:** Jason Douglas [jason@hideawayreservations.com]

**Sent:** Thursday, March 10, 2011 3:46 PM

**To:** Brenton Wartner

**Subject:** Re: Hideaway

Yes I do:

The well is registered with the state as a transient non-community commercial well.  
Permit # - CO0221338

Water enters the building at 18 gpm and is treated, then fills a 300 gallon tank.

It is then pumped at 45 gpm to a 75 gallon pressure tank.

From the pressure tank, it is dispersed to the building. The 1" pipe going to the additional building comes directly off the 75 gal pressure tank.

Let me know if you need anything else.

Jason Douglas



RETREATS · REUNIONS · MEETINGS

719 481 2083 office

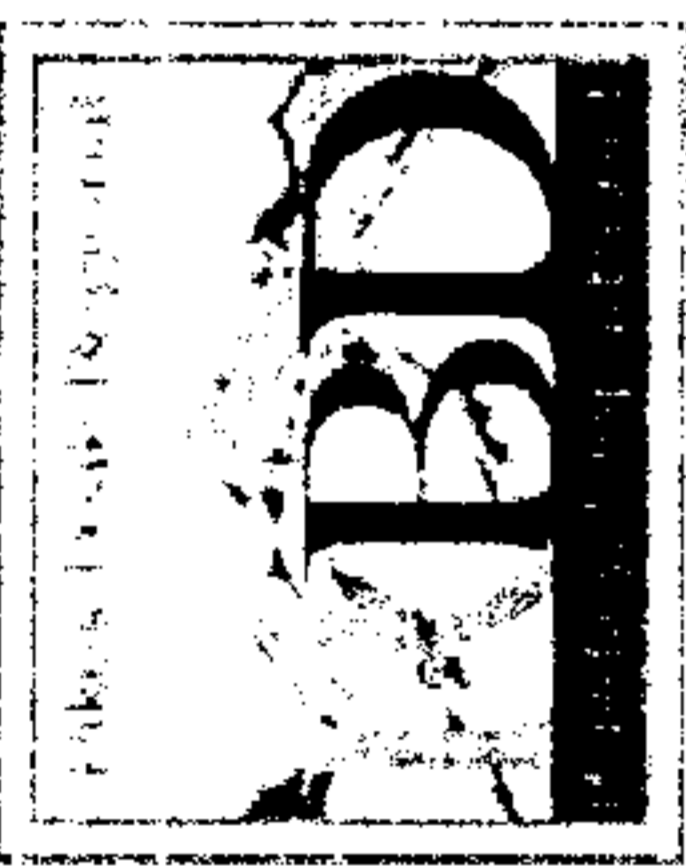
719 488 2353 fax

[jason@hideawayreservations.com](mailto:jason@hideawayreservations.com)

[www.hideawayreservations.com](http://www.hideawayreservations.com)

3/10/2011

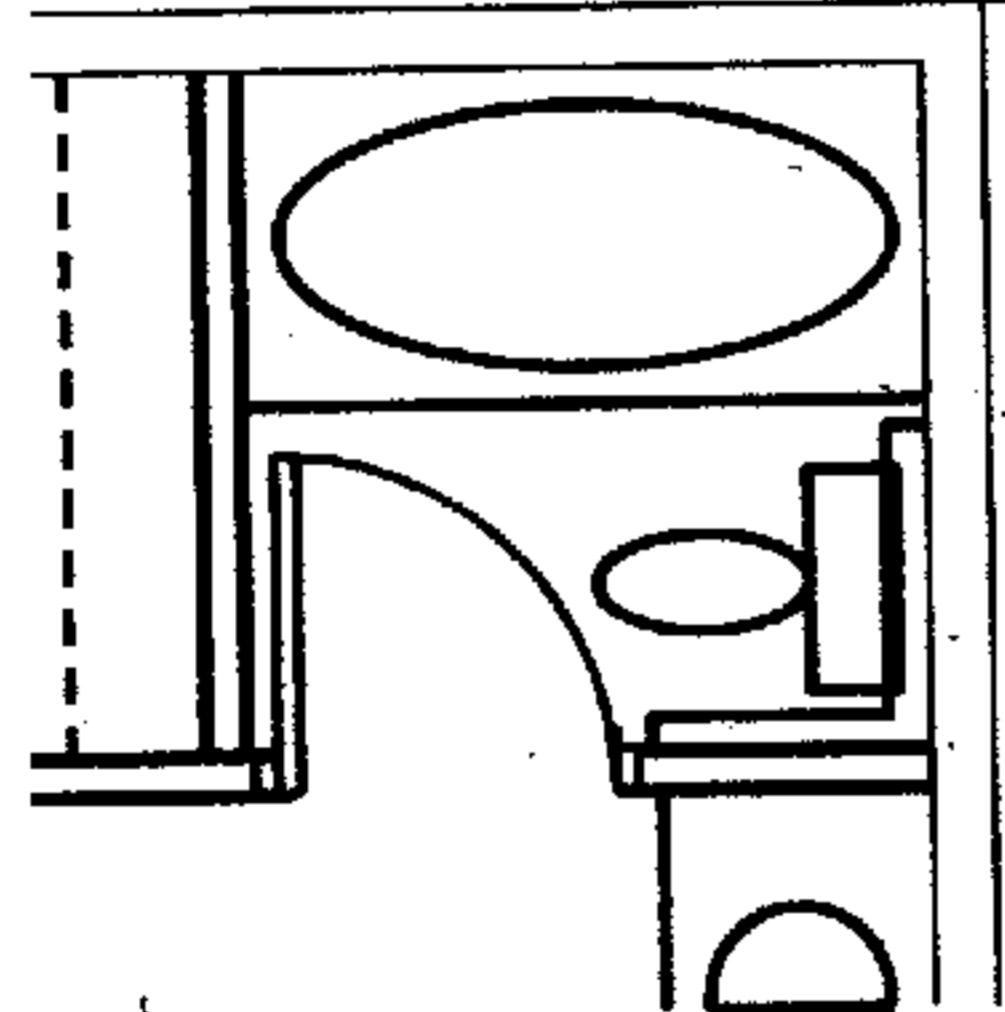
APPLICANT to Permit H78604 Plan C51378



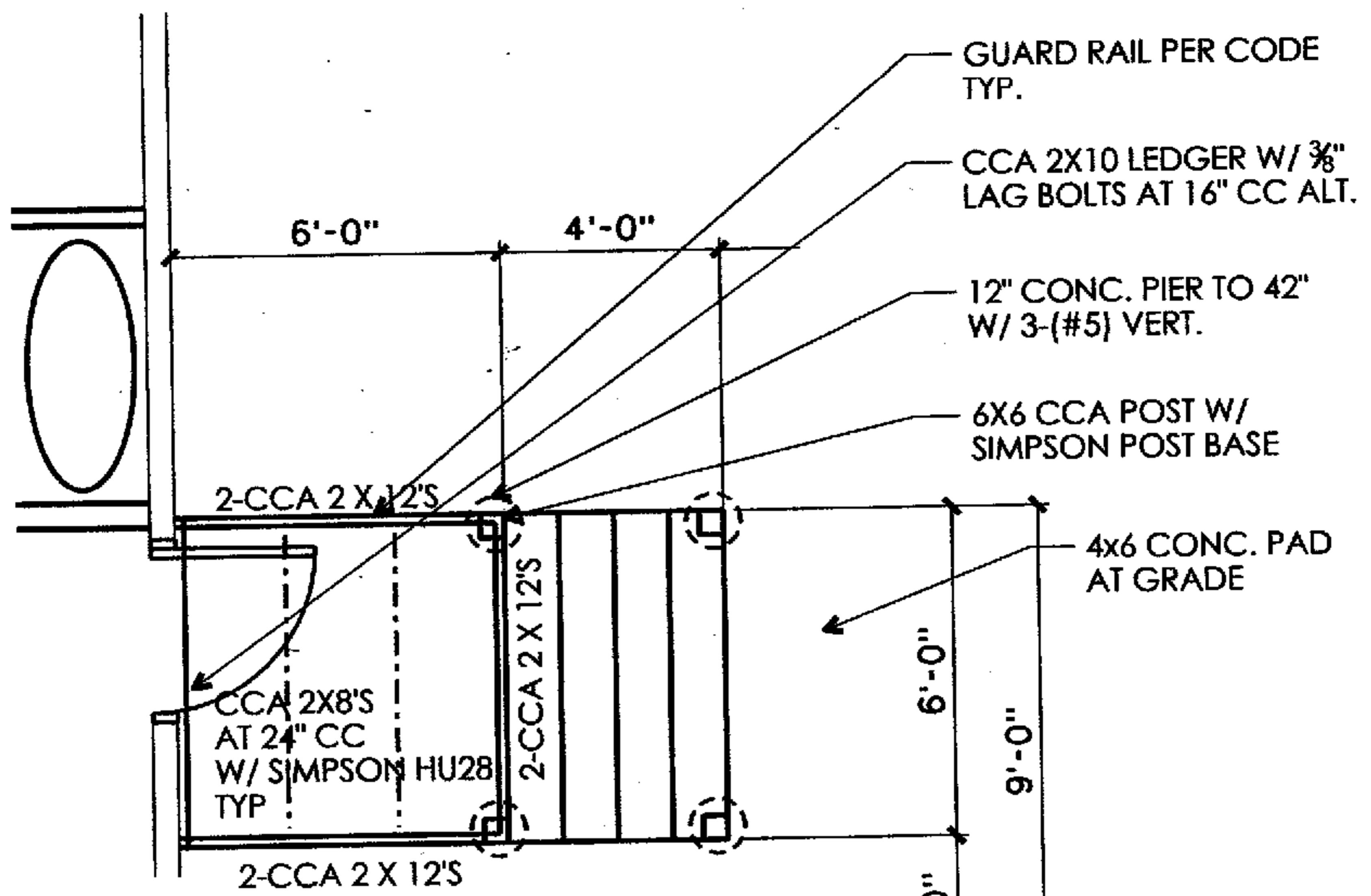
- Construction
- Mechanical
- Plumbing
- Electrical
- Fire

□ □ □ □ □

EXISTING AC CONDENSER



### DECK FLOOR PLAN



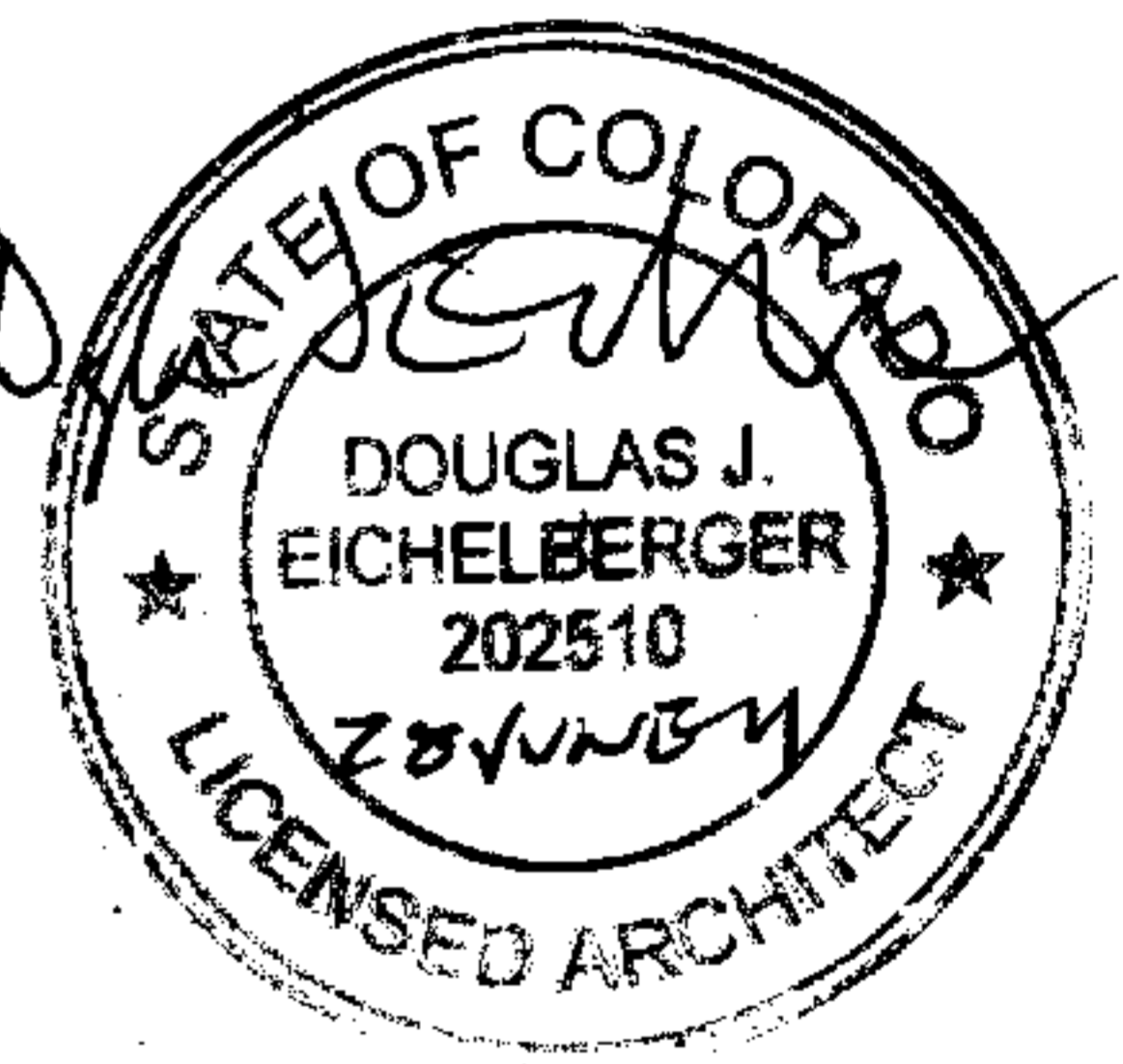
- GUARD RAIL PER CODE TYP.
- CCA 2X10 LEDGER W/ 3/8" LAG BOLTS AT 16" CC ALT.
- 12" CONC. PIER TO 42" W/ 3-(#5) VERT.
- 6X6 CCA POST W/ SIMPSON POST BASE
- 4X6 CONC. PAD AT GRADE

2-CCA 2 X 12'S

CCA 2X8'S AT 24" CC W/ SIMPSON HU28 TYP

2-CCA 2 X 12'S

2-CCA 2 X 12'S



NOTE:  
DRAWINGS DATED 24 MARCH 2011, SHOW A CONCRETE SLAB ON GRADE AT THE EXIT. THIS IS A REVISION SHOWING A WOOD DECK.

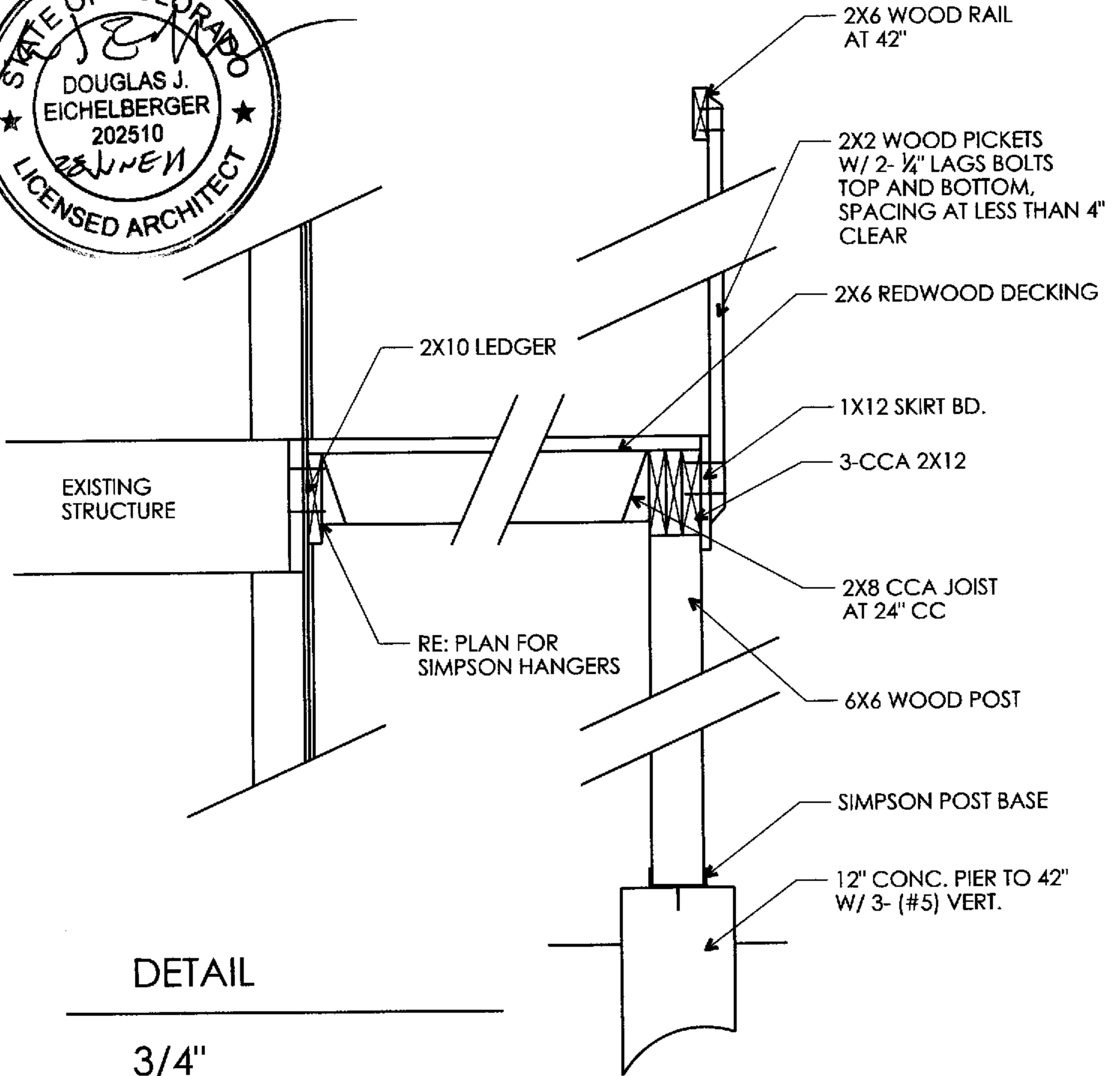
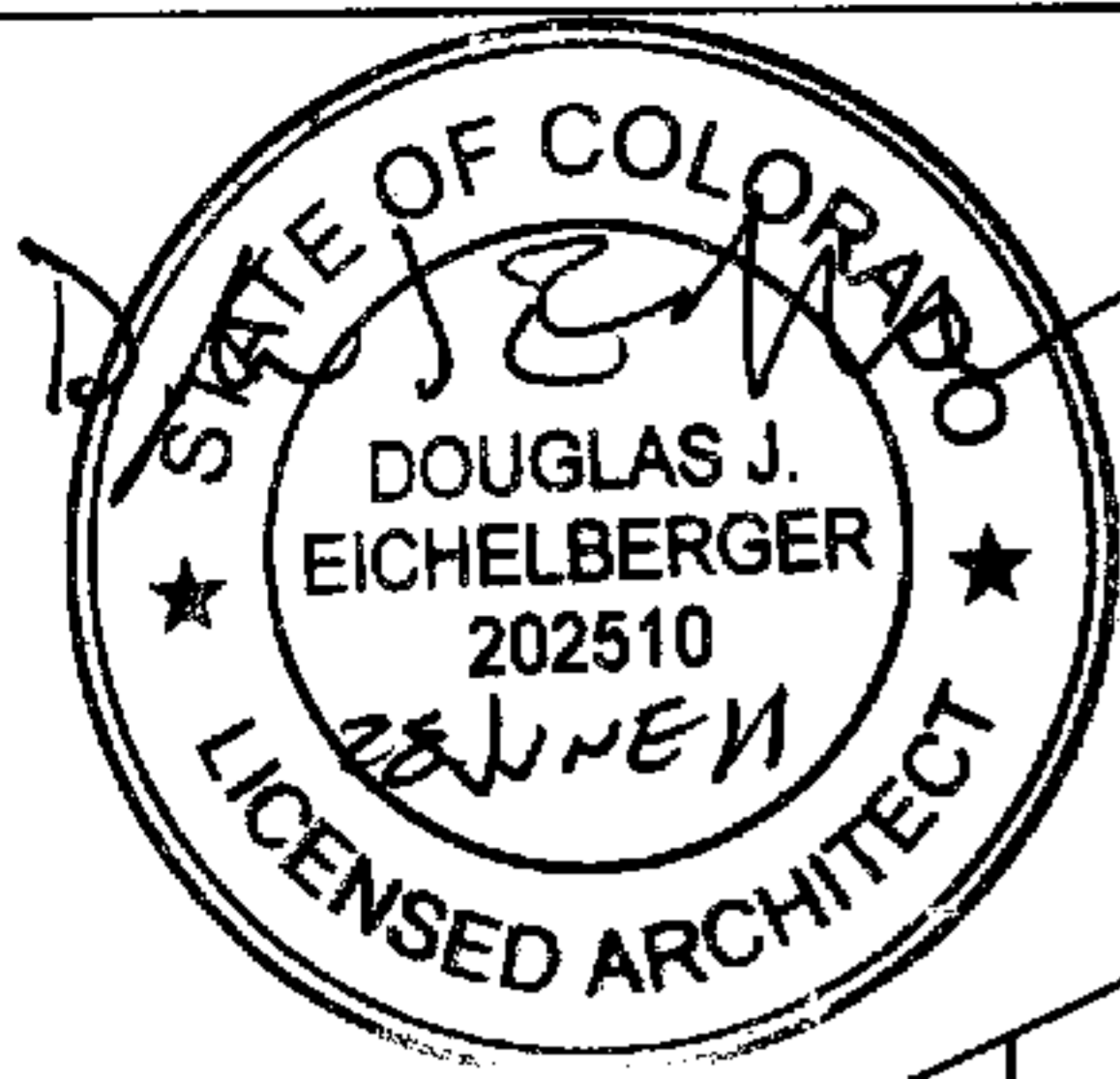


Released for Permit  
JUN 28 2011  
AJE  
RBD Construction

DECK ADDITION AT  
THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyranch@aol.com

DATE:  
28 JUNE 2011



DETAIL

3/4"

NOTE:  
DRAWINGS DATED 24 MARCH 2011, SHOW  
A CONCRETE SLAB ON GRADE AT THE EXIT.  
THIS IS A REVISION SHOWING A WOOD DECK.

DECK ADDITION AT  
THE HIDEAWAY  
RETREAT CENTER  
3805 WALKER ROAD  
COLO. SPRINGS, CO.

Released for Permit  
JUN 28 2011  
AJE  
RBD Construction

ARCHITECT:  
DOUGLAS J. EICHELBERGER  
12345 SPRING VALLEY RD.  
LARKSPUR, CO. 80118  
303-688-5211  
luckyranch@aol.com

DATE:  
28 JUNE 2011