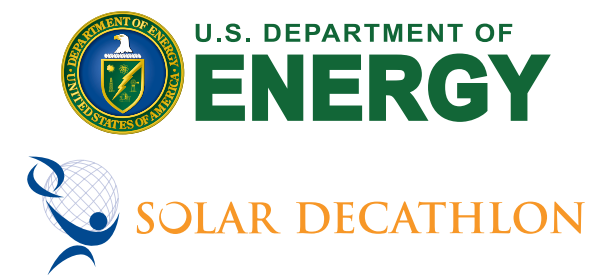
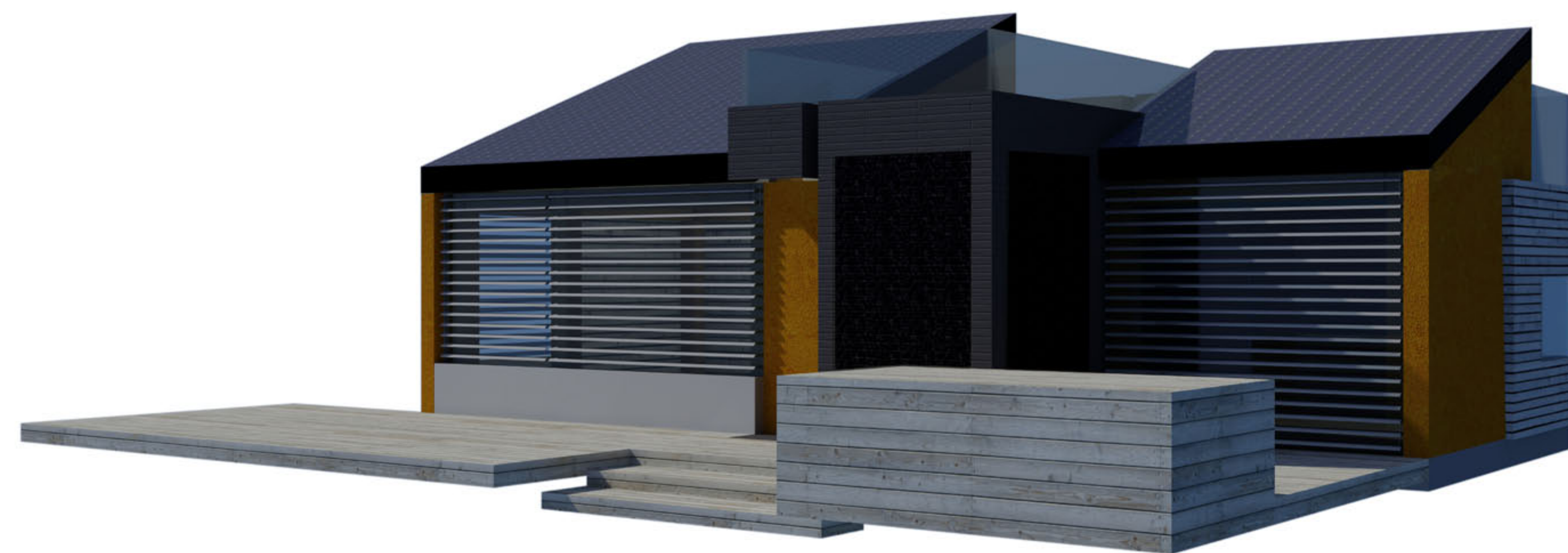


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Alberta Solar Decathlon Team

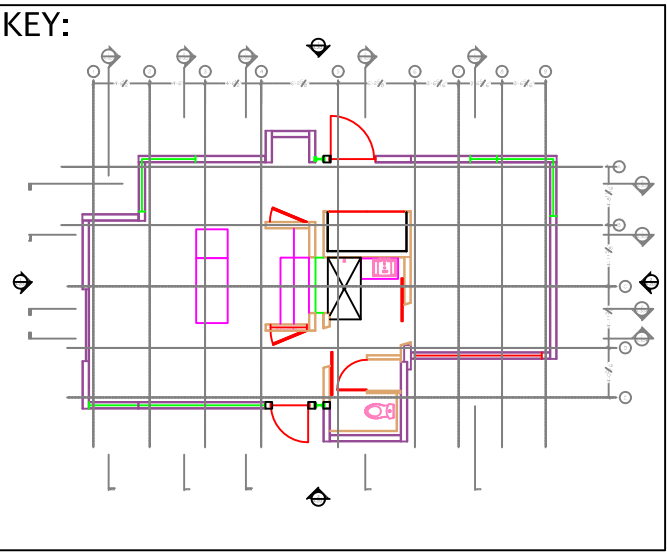


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




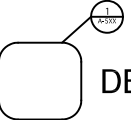

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DRAWING SYMBOLS

	ELEVATION DATUM		DOOR CALL OUT
	SECTION BUBBLE		WINDOW CALLOUTS
	ELEVATION BUBBLE		GRID INDICATOR
	INTERIOR ELEVATION CALLOUTS		WALL TYPE
	DETAIL CALLOUTS		ROOF TYPE

ABBREVIATIONS

ABV.	ABOVE	DIA.	DIAMETER	GA.	GAUGE	NAT.	NATURAL	S.S.	STAINLESS STEEL
A.F.F	ABOVE FINISHED FLOOR	DIM.	DIMENSION	G.W.B.	GYP SUM WALL BOARD	N/A	NOT APPLICABLE	STL.	STEEL
A.F.G	ABOVE FINISHED GRADE	DW	DISHWASHER	GYP.	GYP SUM	N.I.C.	NOT IN CONTRACT	STRUT	STRUCTURAL
ACC	ACCESS	DN.	DOWN	HD.	HARD	N.T.S.	NOT TO SCALE	S.I.P.	STRUCTURAL INSULATED PANEL
ADA	AMERICANS WITH DISABILITIES ACT	D.S.	DOWN SPOUT	HDR.	HEADER	NO.	NUMBER	SUSP.	SUSPENDED
A/C	AIR CONDITIONING	DWG.	DRAWING	HEX.HD.	HEXAGONAL HEAD	O.C.	ON CENTRE	T.G.	TEMPERED GLASS
ADJ	ADJUSTABLE	EA	EACH	H.P.	HIGH POINT	OPP.	OPPOSITE	TEMP.	TEMPORARY
ALUM.	ALUMINUM	E.O.	EDGE OF	HORIZ.	HORIZONTAL	O.S.B.	ORIENTED STRAND BOARD	TH.	THICK OR THICKNESS
ACO.	ACOUSTICAL	ELEC.	ELECTRIC	H.B.	HOSE BIB	O.D.	OUTSIDE DIAMETER	TBD	TO BE DETERMINED
APPROX.	APPROXIMATELY	EL.	ELEVATION	HR	HOSE BIB	OH.	OVERHEAD	T#G	TONGUE AND GROOVE
ARCH.	ARCHITECTURE	ERV	ENERGY RECOVERY VENTILATOR	I.B.C.	INTERNATIONAL BUILDING CODE	PKG.	PACKAGE	T.O.	TOP OF
BLK.	BLOCKING OR BLOCK	EQ.	EQUAL	I.F.C.	INTERNATIONAL FIRE CODE	PTD.	PAINTED	T.	THREAD
BD.	BOARD	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	I.R.C.	INTERNATIONAL RESIDENTIAL CODE	PNL.	PANEL	TRTD	TREATED
BLDG.	BUILDING	EXH.	EXHAUST	INSUL.	INSULATION	PV	PHOTOVOLTAIC	TYP.	TYPE
BM.	BEAM	EXP.	EXPANSION	I.D.	INTERIOR DESIGN	PLAS.	PLASTIC	UL	UNDERWRITERS LABORATORIES
B.O.	BOTTOM OF	E.J.	EXPANSION JOINT	JST.	JOIST	PL.	PLATE	UON.	UNLESS OTHERWISE NOTED
B.P.	BASE PLATE	EXT.	EXTERIOR	LAM.	LAMINATED	PVC	POLYVINYL CHLORIDE	V.B.	VAPOR BARRIER
CLG.	CEILING	F.O.S.	FACE OF STUD	L.V.L.	LAMINATED VENEER LUMBER	PREC.	PRECAST	V.I.F.	VERIFY IN FIELD
C.I.F.	CUT IN FEILD	FG.	FIBERGLASS	L.O.	LINE OF	R.	RADIUS OR RISER	W/D	WASHER/ DRYER
CONC.	CONCRETE	FIN.	FINISH	L.P.	LOW POINT	REF.	REFRIGERATOR	W.P.	WATERPROOF
C.M.U.	CONCRETE MASONRY UNITS	F.F.	FINISHED FLOOR	MFGR.	MANUFACTURER	REINF.	REINFORCED	W/	WITH
C.O.	CLEAN OUT	F.O.	FINISHED OPENING	MAS.	MASONRY	REQD.	REQUIRED	W/O	WITHOUT
COL.	COLUMN	F.E.	FIRE EXTINGUISHER	M.O.	MASONRY OPENING	R.J.	ROOF JOISTS	WD.	WOOD
CONST.	CONSTRUCTION	F.R.	FIRE RATED/RETARDANT	MAX.	MAXIMUM	R.R.	ROOF RAFTERS	W.S.	WOOD SCREW
CONN.	CONNECTOR	FIXT.	FIXTURE	MECH.	MECHANICAL	RM.	ROOM		
CONT.	CONTINUOUS	FL.	FLOOR	MDF.	MEDIUM DENSITY FIBERBOARD	R.O.	ROUGH OPENING		
CORR.	CORRUGATED	F.D.	FLOOR DRAIN	MTL.	METAL	SHT.	SHEET		
C.S.	COUNTER SUNK	FLUOR.	FLUORESCENT	MIN.	MINIMUM	S.G.	SAFETY GLASS		
D.J.	DECK JOISTS	FTG.	FOOTING	MISC.	MISCELLANEOUS	SIM.	SIMILAR		
D.O.E	DEPARTMENT OF ENERGY	FRZ.	FREEZER	MULL.	MULLION	S.A.F.B	SOUND ATTNUATION FIRE BLANKET		
DET.	DETAIL	GALV.	GALVANIZED	NREL	NATIONAL RENEWABLE ENERGY LABORATORY	SQ.	SQUARE		

GENERAL NOTES

ALL CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL RESIDENTIAL CODE, ALBERTA BUILDING CODE, AND THE SOLAR DECATHLON 2009 RULES AND REGULATIONS LATEST EDITION AND ALL OTHER GOVERNING AGENCIES BUILDING REQUIREMENTS.

DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS SUPERCEDE SCALED DRAWINGS

ALL DIMENSIONS ARE GIVEN IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED

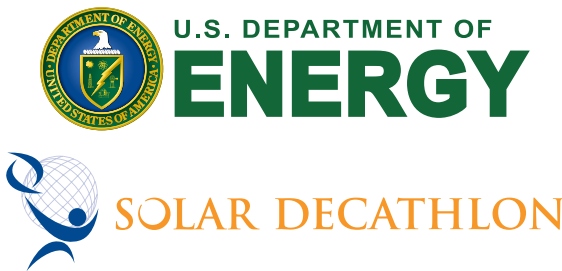
ALL DIMENSIONS, INCLUDING ROUGH OPENING SIZES ARE TO BE CHECKED AND VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. ANY ERRORS OR OMISSIONS MUST BE REPORTED TO THE TECHNOLOGIST BEFORE CONSTRUCTION

THESE DRAWINGS ARE PROPERTY OF ALBERTA SOLAR DECATHLON. THEY MAY NOT BE REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION.

DURING COMPETITION THE STAIRS WILL BE STORED AWAY AS THERE WILL BE NOT PUBLIC ACCESS TO THE ROOF TOP DECK.



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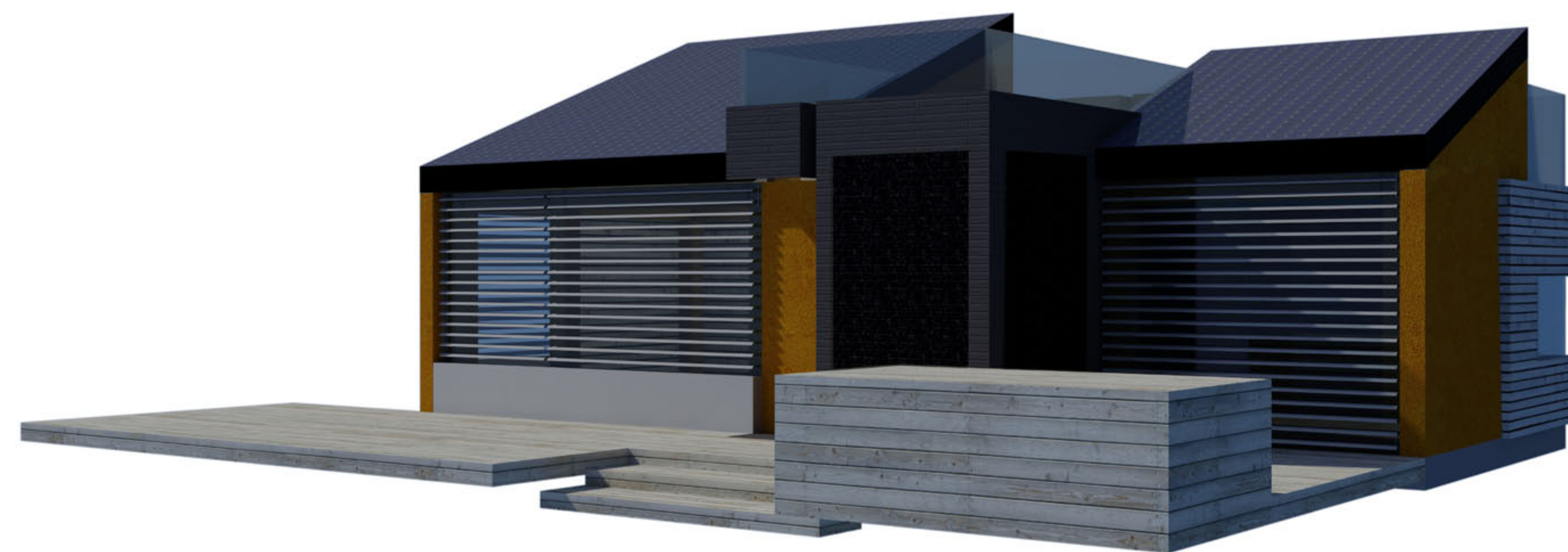


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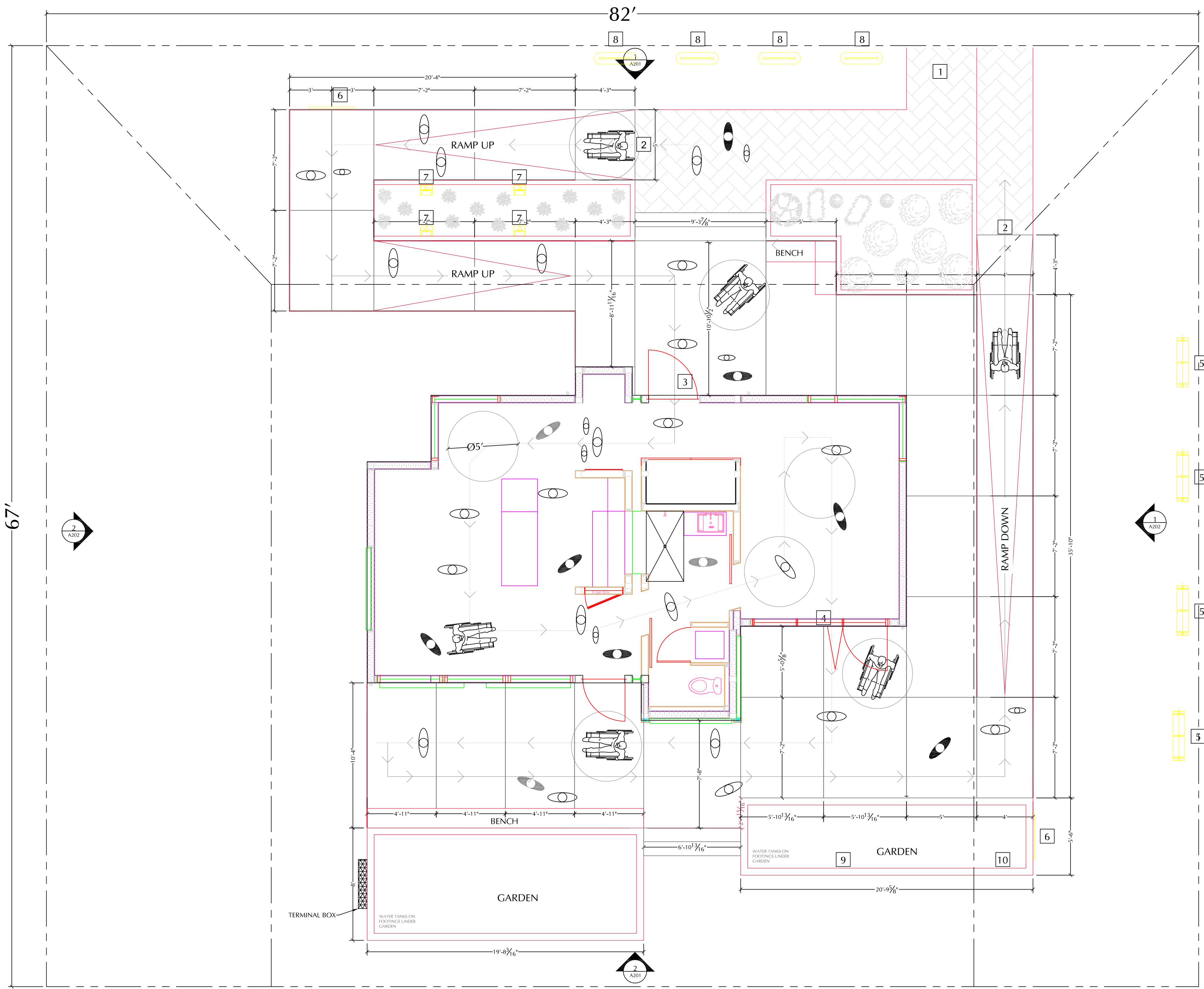
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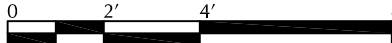
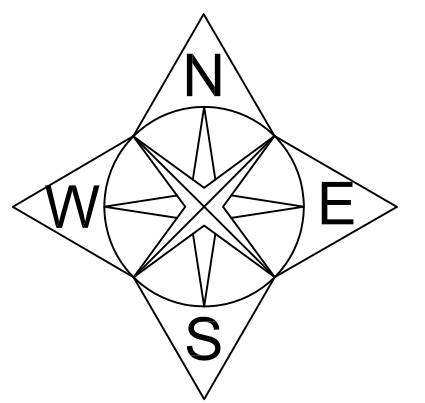
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1 SITE PLAN
L-101 1/4" = 1' 0"



LEGEND

- 1 SITE ENTRY
- 2 ADA RAMP
- 3 HOUSE ENTRY
- 4 REAR EXIT
- 5 HORIZONTAL INFO STAND
- 6 INFO/INTRO
- 7 VERTICAL INFO STAND
- 8 STATIONARY STAND
- 9 WATER SUPPLY TANK
- 10 WASTE WATER TANK
- VISITOR
- STUDENT GUIDE
- NREL SUPPLIED GROUND COVER
- GLASS RAILING BY WAGNER #GR2850HCB-10
- ZEN ROCK GARDEN
- AMUR MAPLE ACCENT
- BRISTLECONE PINE ACCENT
- COMMON EFFUSA JUNIPER
- NATIVE ROSE
- SNOW BERRY
- TREMBLING ASPEN
- WINGED BURNING BUSH



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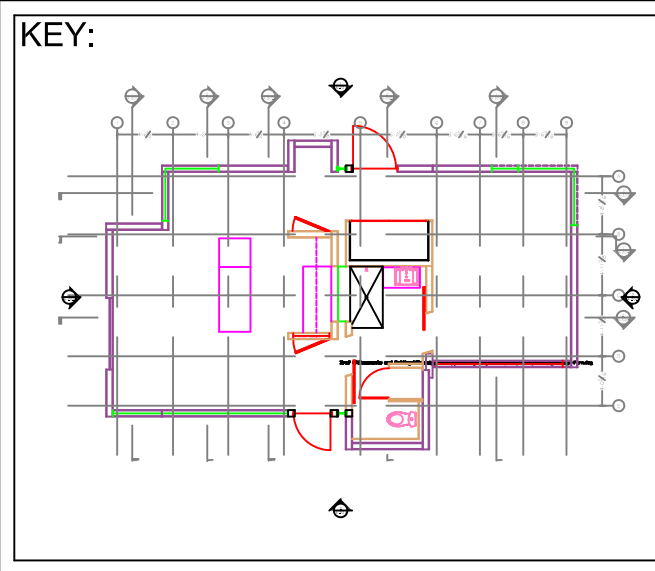
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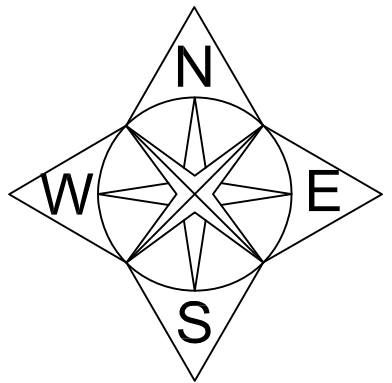
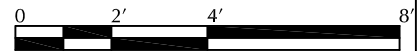
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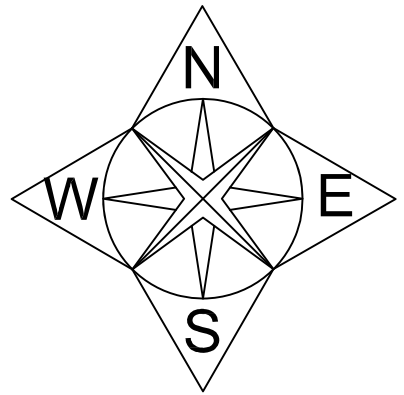
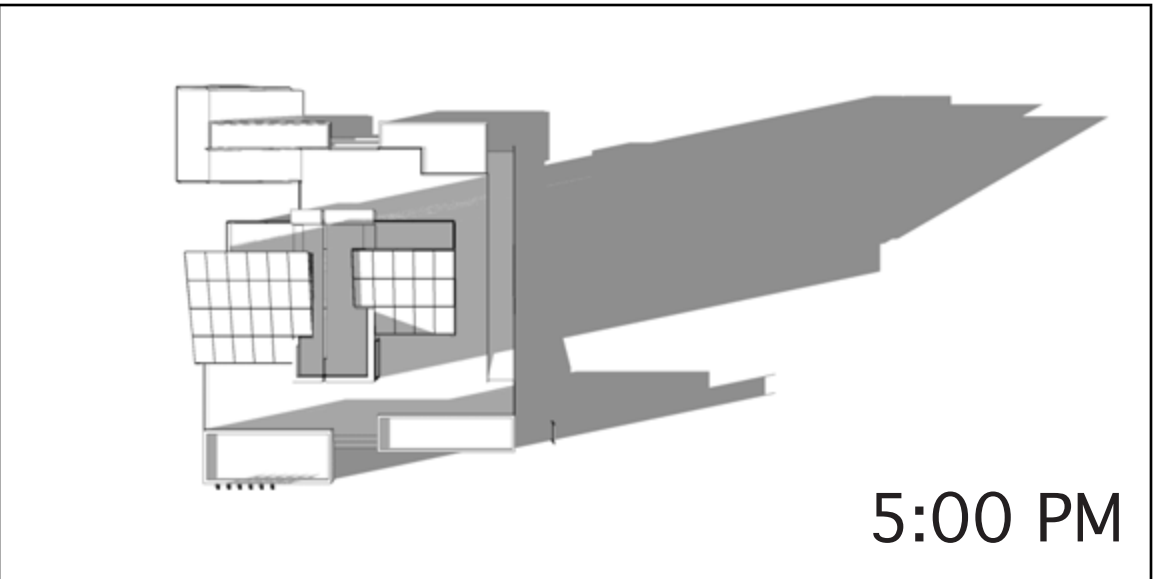
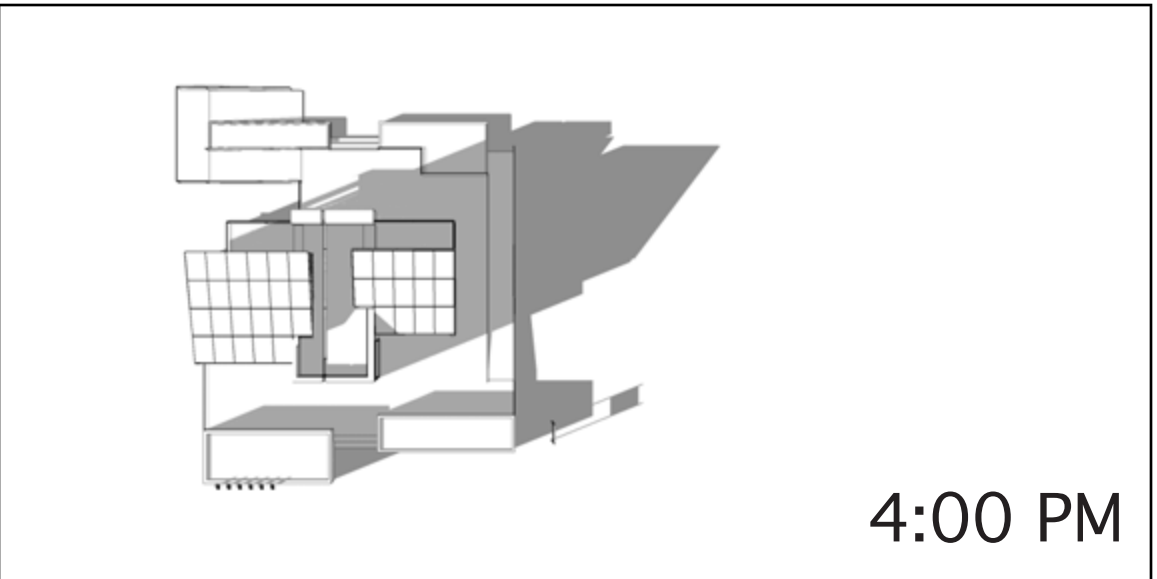
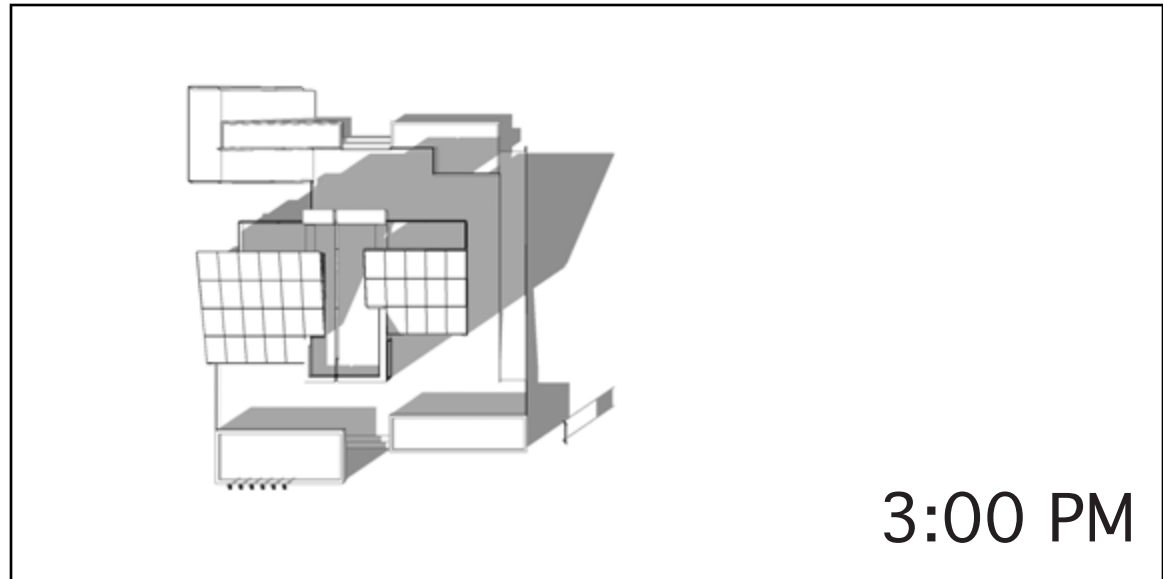
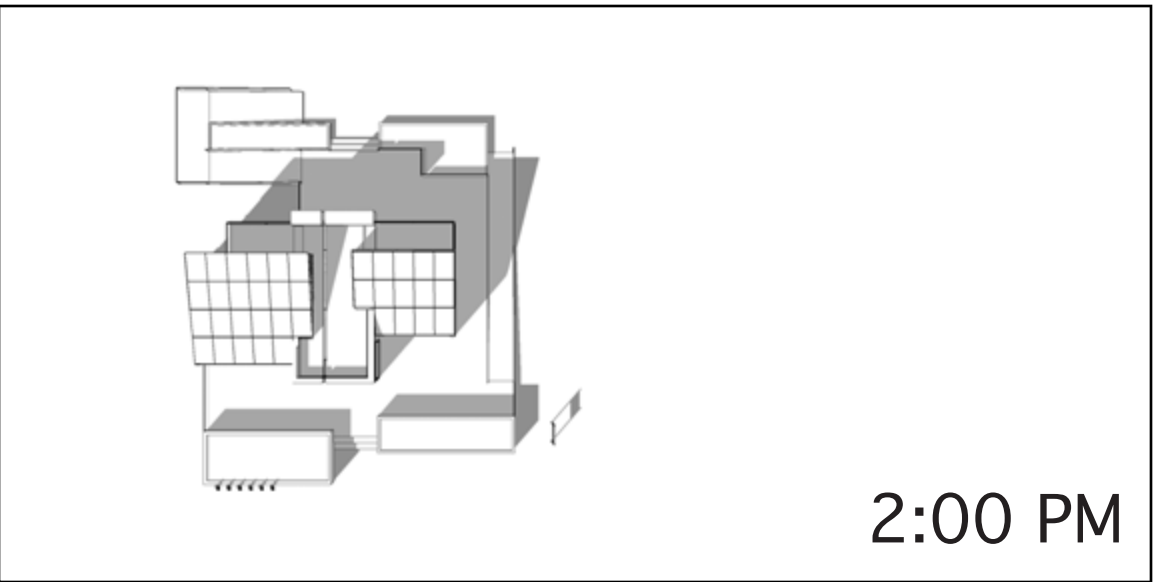
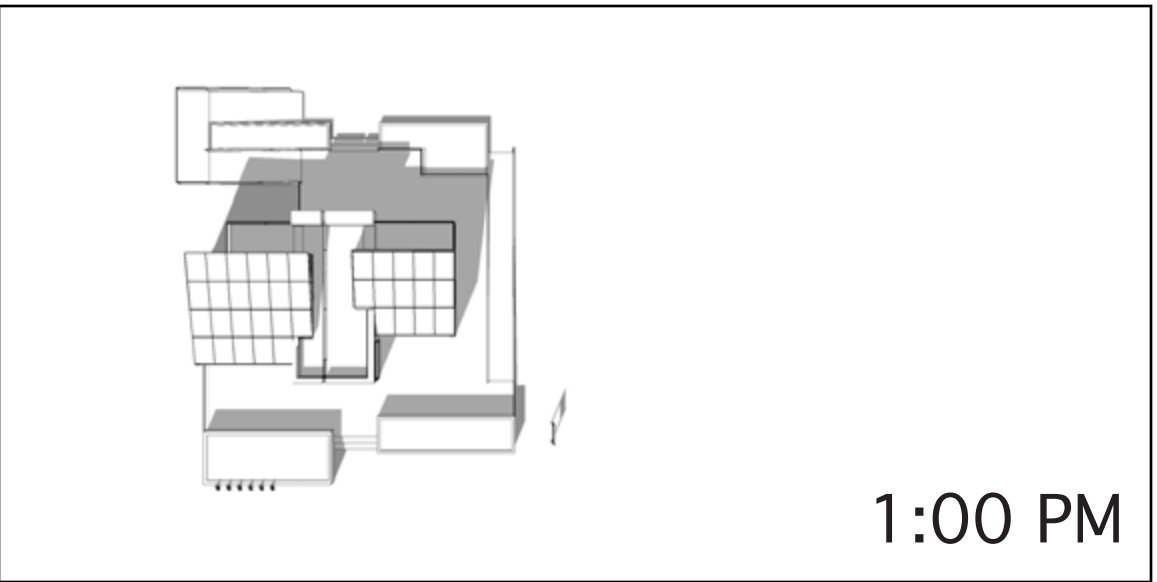
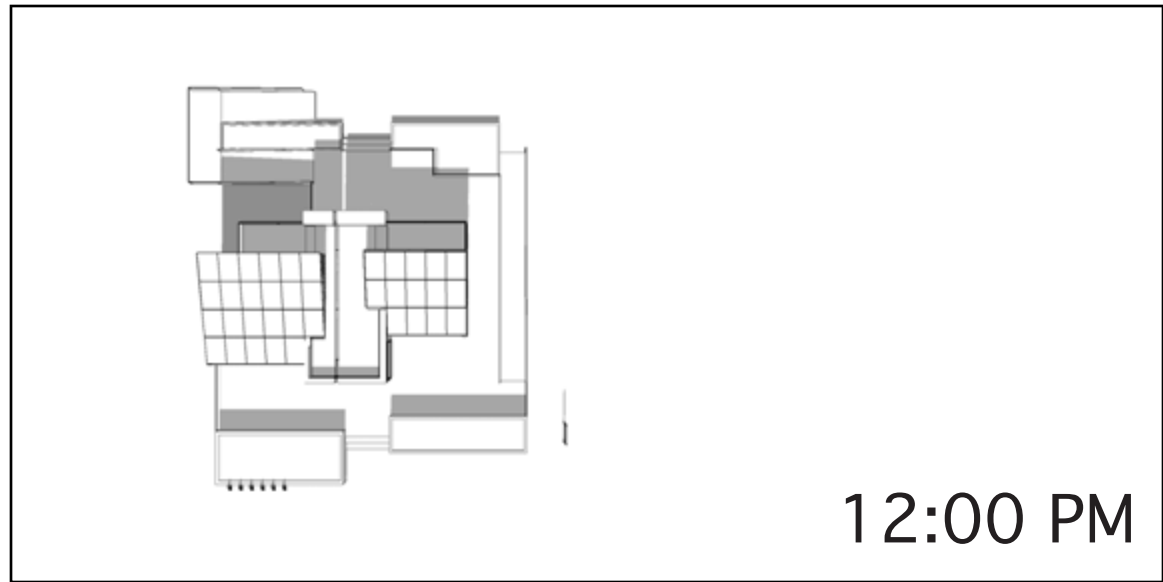
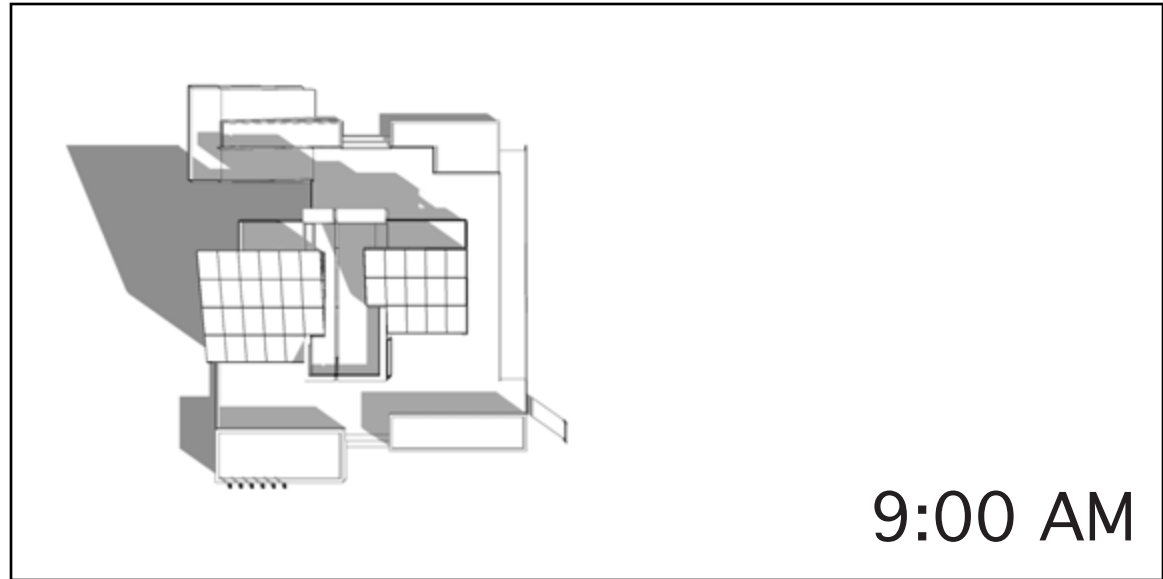
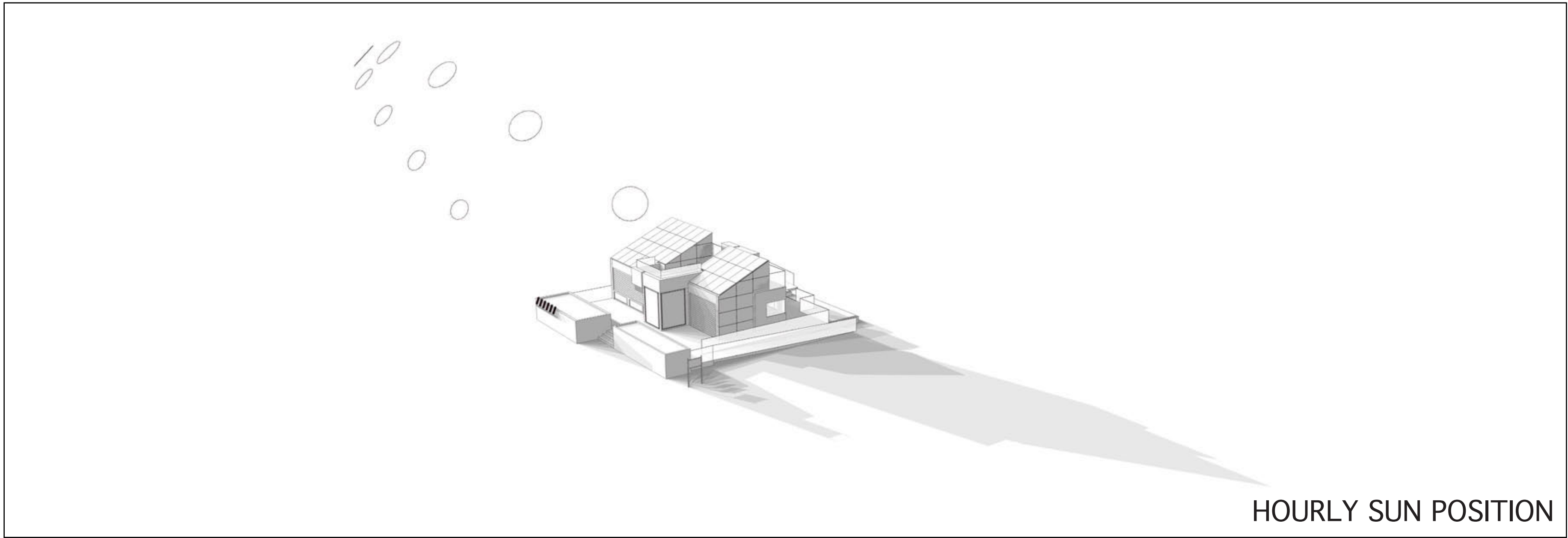


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SHEET #: L-101	



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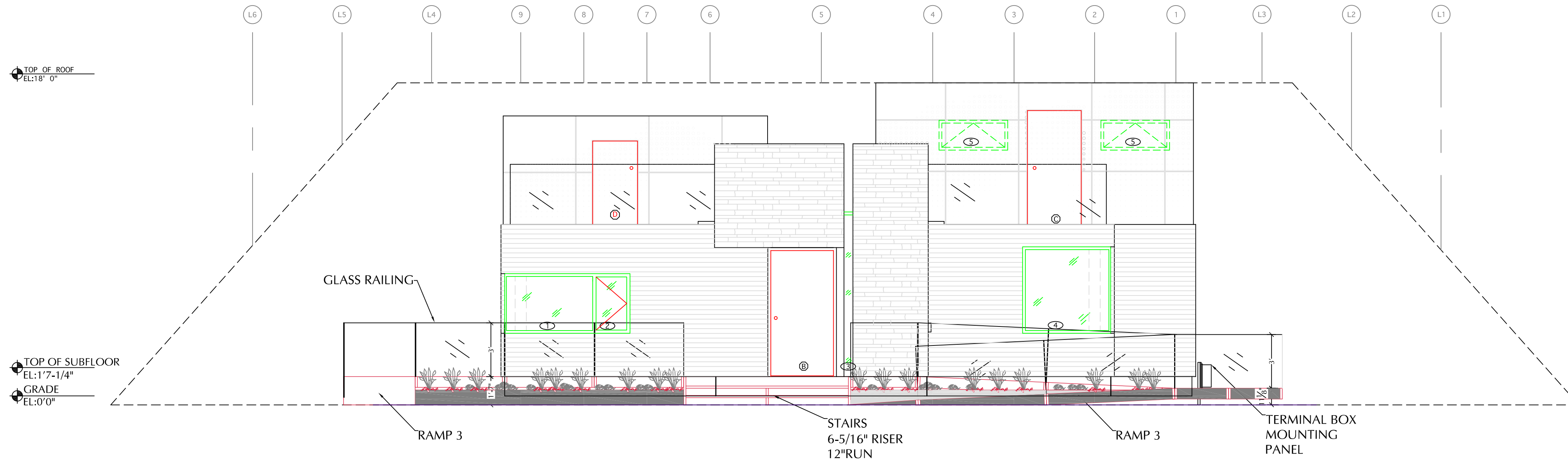
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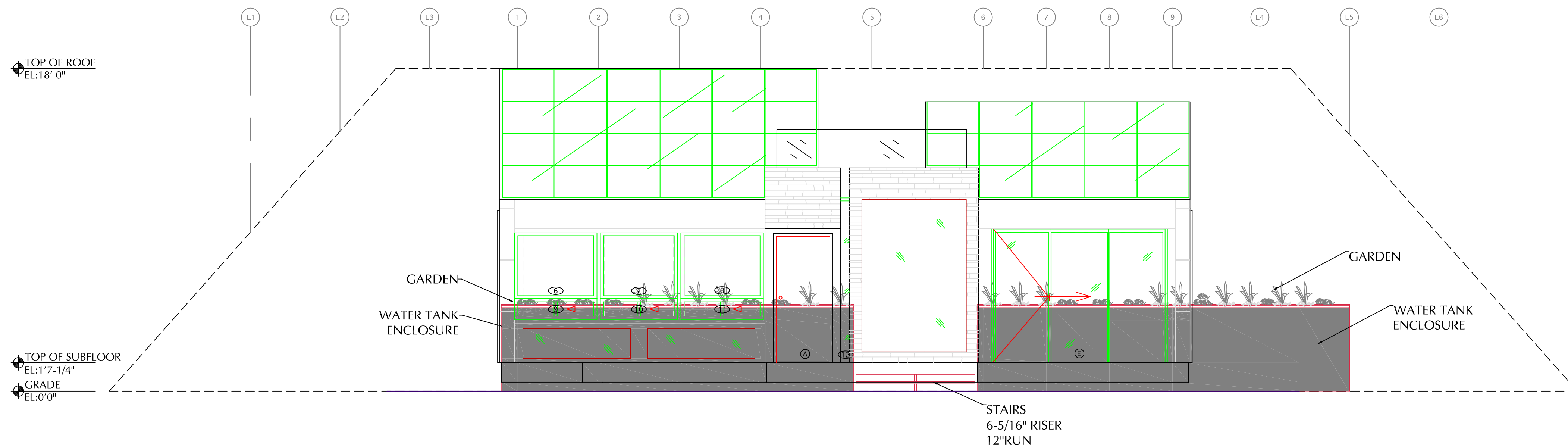
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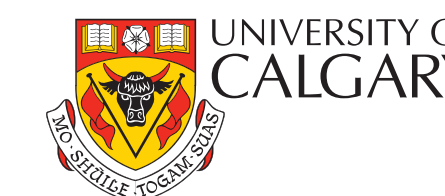
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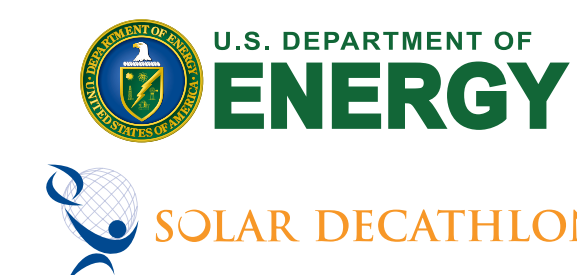
1 NORTH ENVELOPE ELEVATION
3/8" = 1' 0"



2 SOUTH ENVELOPE ELEVATION
3/8" = 1' 0"

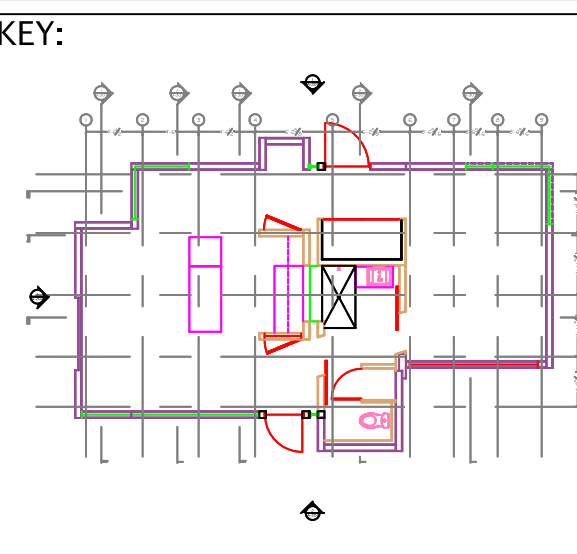


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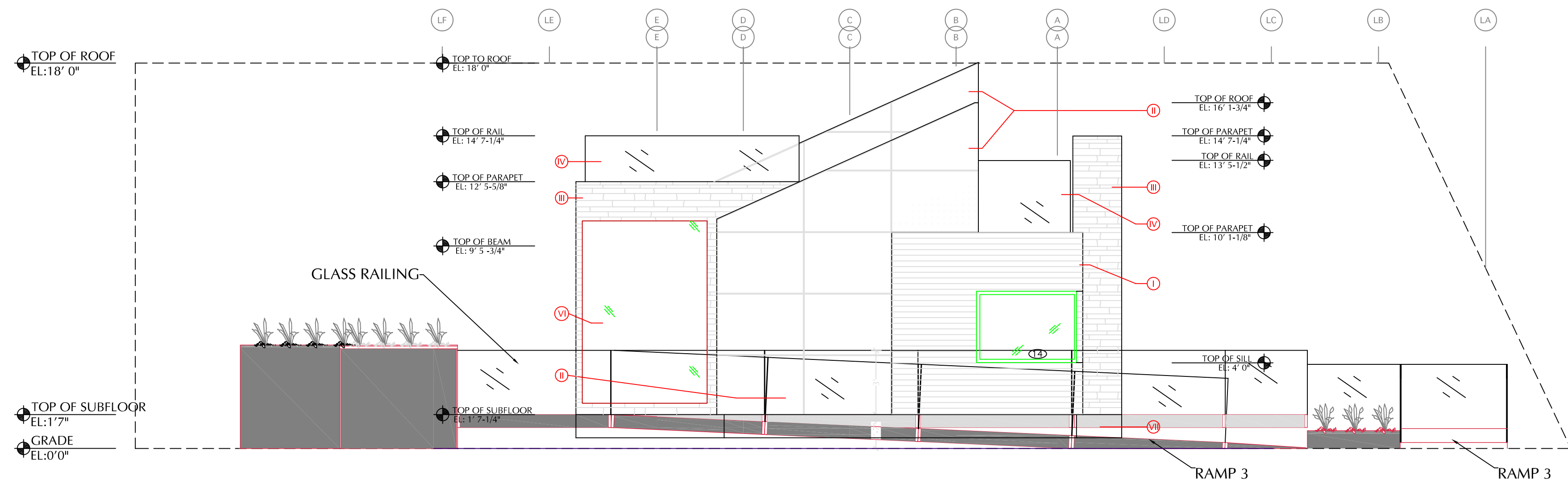
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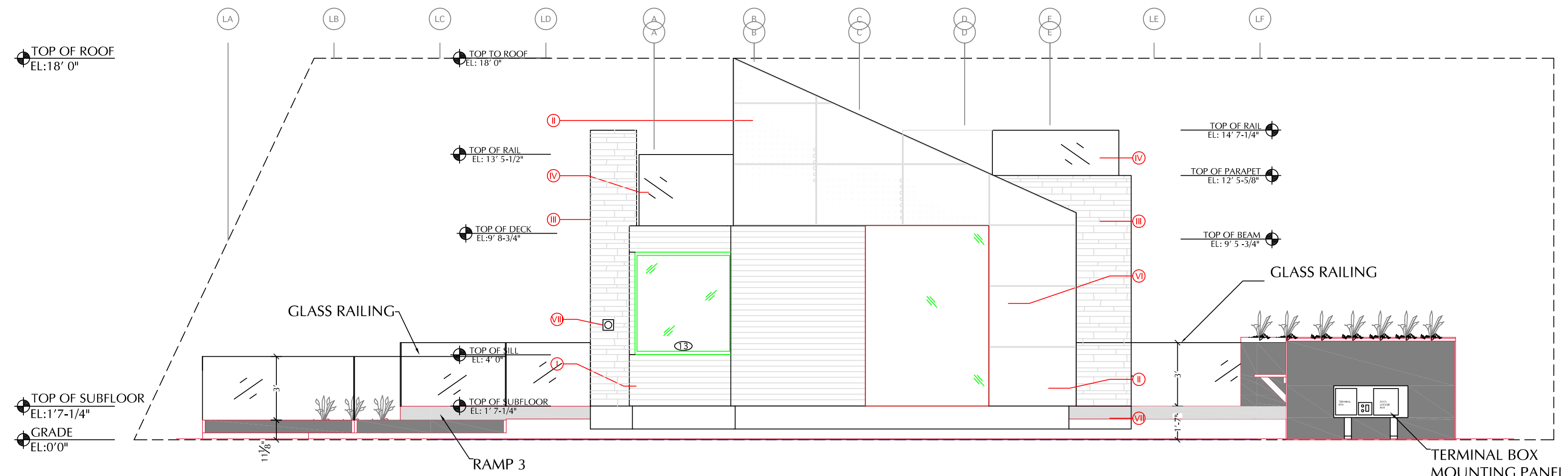
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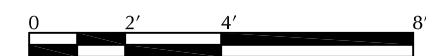
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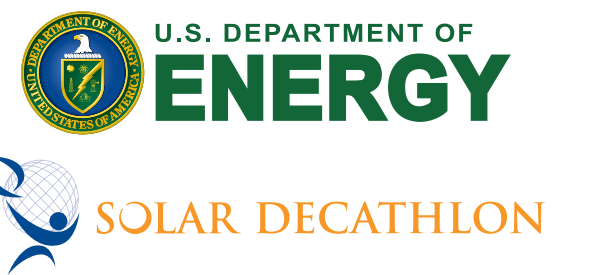
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L-202 EAST ENVELOPE ELEVATION
1/4" = 1' 0"



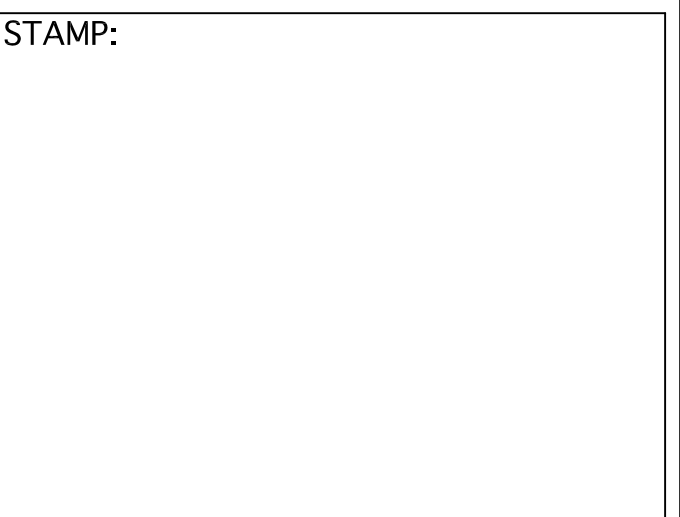
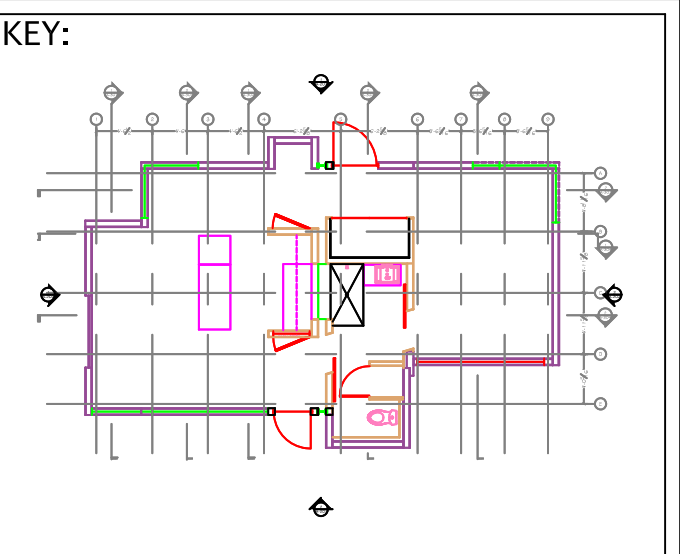
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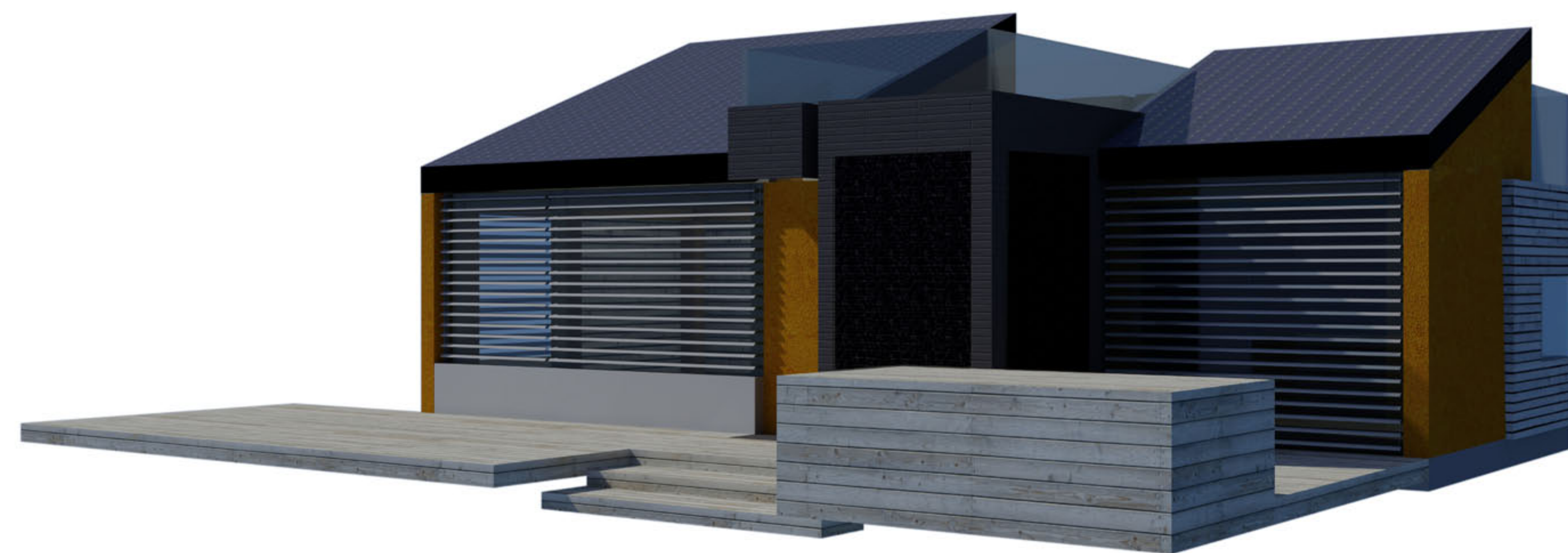
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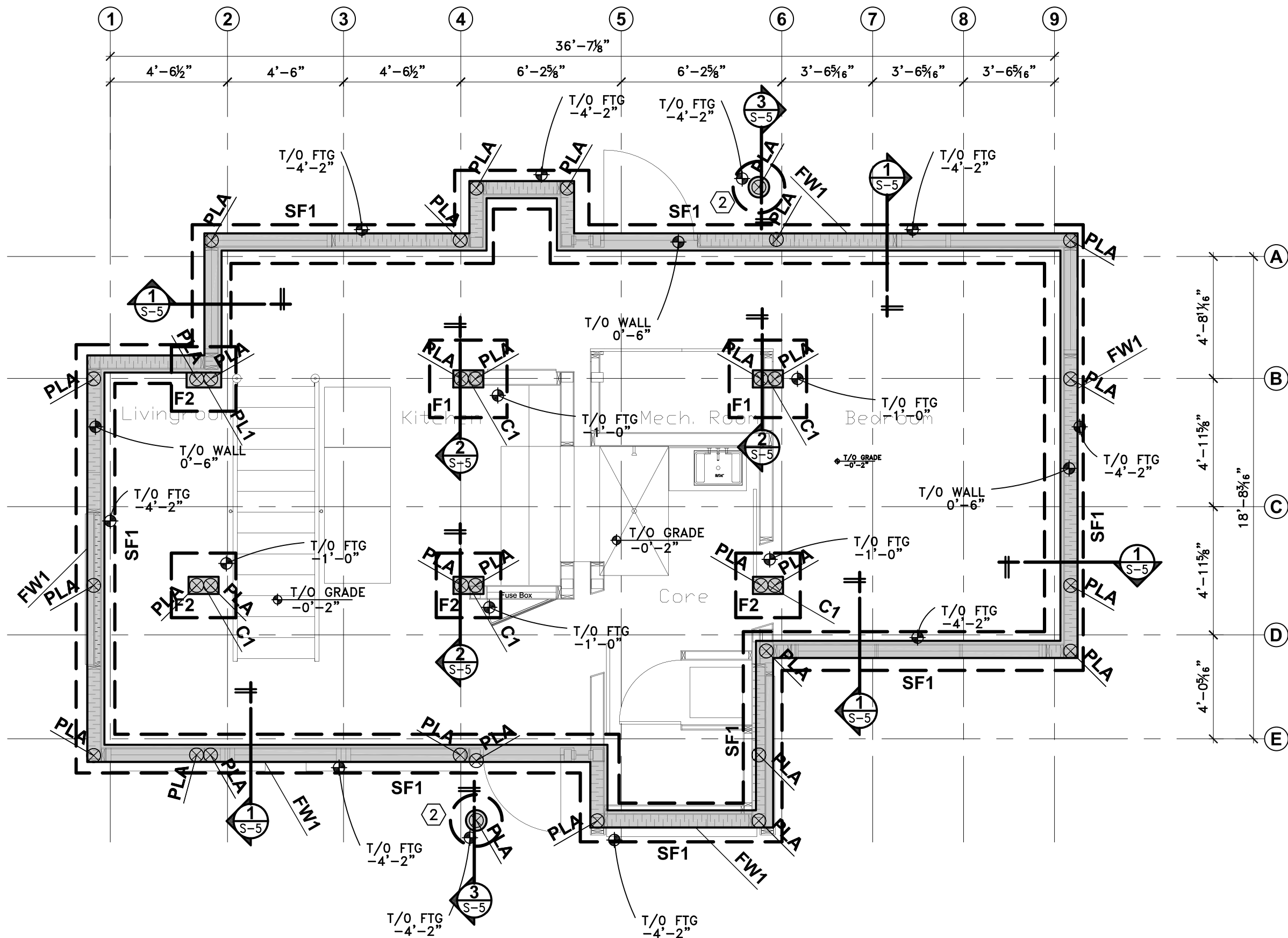
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PERMANENT FOUNDATION PLAN
S-1 1/4" = 1'-0"

PLAN NOTES

1. SEE DWG. S-0 FOR ADDITIONAL NOTES
2. COORDINATE FLOOR DRAINS AND SLOPES WITH ARCH. DWGS.
3. FOUNDATION DRAINAGE AS PER ALBERTA BUILDING CODE
5. FOOTING LEVELS SHOWN ARE NOT FINAL AND MAY VARY ACCORDING TO SITE CONDITIONS. EXTEND ALL FOOTINGS TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER.
6. FOOTINGS DESIGNED FOR SERVICEABILITY LIMIT STATE BEARING CAPACITY OF 70kPA AND ULTIMATE LIMIT STATE CAPACITY OF 100kPA.

KEYNOTE SCHEDULE

- | | |
|---|----------------------------------|
| ① | SOIL UNDER FLOOR PANEL SYSTEM |
| ② | "BIG FOOTING" SEE S-5 FOR DETAIL |

FOUNDATION PLAN NOTES

1. PROVIDE MINIMUM 4'-0" FROST PROTECTION FOR ALL FOOTINGS ADJACENT TO HEATED AREAS (I.E. RESIDENCE & HEATED GARAGES).
2. PROVIDE MINIMUM 6'-0" FROST PROTECTION FOR ALL FOOTINGS AT UNHEATED EXTERIOR AREAS (I.E. DECK PAD FOOTINGS & EXTERIOR RETAINING WALLS).
3. PROVIDE 2x4 KEYWAY AT CENTRE OF FOOTING AND 15Mx12"x36" DOWELS FROM FOOTING TO WALL TO MATCH WALL VERT. REINF.

PAD FOOTING SCHEDULE

TYPE	DESCRIPTION			
	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F1	3'-0"	3'-0"	10"	4-15M E.W. BTM
F2	2'-6"	2'-6"	8"	3-15M E.W. BTM

STRIP FOOTING SCHEDULE

TYPE	DESCRIPTION	REINFORCEMENT	
	WIDTHxDEPTH	LONGITUD.	TRANSVERSE
SF1	18" x 8"	2-15M CONT. BTM	-----
NOTE: ALL FOOTINGS SF1 UNLESS NOTED OTHERWISE			

FOUNDATION WALL SCHEDULE

TYPE	DESCRIPTION	REINFORCEMENT		
		VERT.	HORIZ.	EXTRA.
FW1	8" THICK.	-----	-----	2-15M TOP
ALL WALL WILL BE FW1 UNLESS NOTED OTHERWISE				

CONCRETE COLUMN AND PILASTER SCHEDULE

TYPE	SIZE	REINFORCEMENT	COMMENT
PL1	16"x16"	4-15M VERT. C/W 2-10M CLOSED TIES ON TOP	SEE DETAIL S-5
C1	8"x16"	4-15M VERT. C/W 2-10M CLOSED TIES ON TOP	SEE DETAIL S-5

ISSUED DATES

DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
2009.05.30	CONSTRUCTION

2009/06/02 CONSTRUCTION SET

REVISIONS

KEY:

STAMP:

SOLAR DECATHLON HOUSE

09-137

DRAWN: VN CHECKED: RZ

DATE: 05-30-2009

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

SHEET TITLE: **PERMANENT FOUNDATION PLAN**

SHEET #: **S-1**

ISSUED DATES

DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
2009.05.30	CONSTRUCTION

2009/06/02 CONSTRUCTION SET

REVISIONS

KEY:

STAMP:

**SOLAR DECATHLON
HOUSE**

09-137

DRAWN:

VN

CHECKED:

RZ

DATE:

05-30-2009

SCALE:

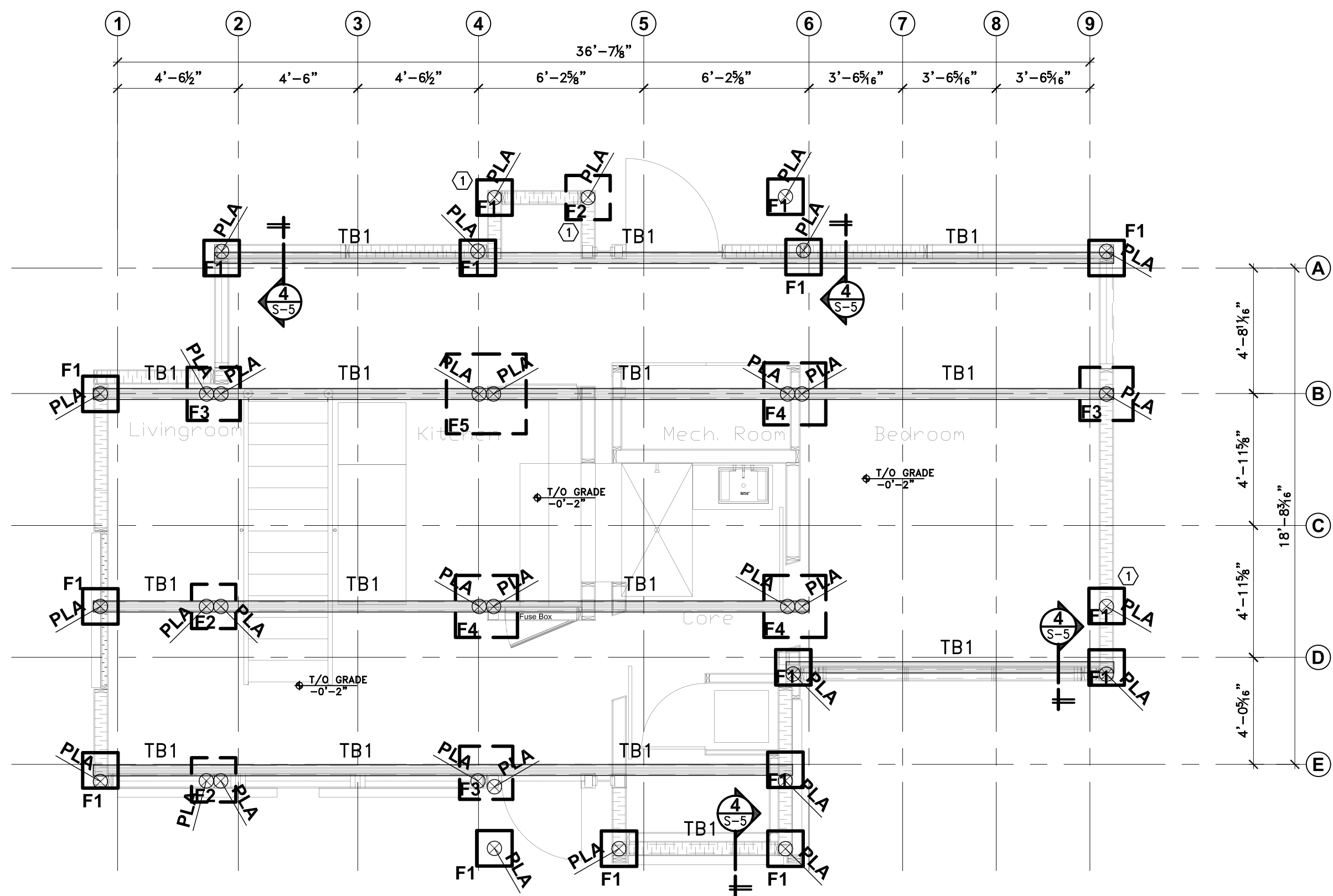
1/4" = 1'-0"

SHEET TITLE:

**TEMPORARY
FOUNDATION PLAN**

SHEET #:

S-1A



TEMPORARY FOUNDATION PLAN
1/4" = 1'-0"

PLAN NOTES

1. SEE DWG. S-0 FOR ADDITIONAL NOTES
2. COORDINATE FLOOR DRAINS AND SLOPES WITH ARCH. DWGS.
3. FOUNDATION DRAINAGE AS PER ALBERTA BUILDING CODE
5. TEMPORARY FOOTINGS DESIGNED FOR SERVICEABILITY LIMIT STATE BEARING CAPACITY OF 70 kPa (1500 PSF)

KEYNOTE SCHEDULE

① STACK CRIBBING TO U.S. OF SIP GRADE BEAM

WOOD CRIBBING PAD FOOTING SCHEDULE

TYPE	DESCRIPTION		
	LENGTH	WIDTH	COMMENTS
F1	1'-4"	1'-4"	-----
F2	1'-8"	1'-8"	-----
F3	2'-0"	2'-0"	-----
F4	2'-4"	2'-4"	-----
F5	3'-0"	3'-0"	-----

TRACK BEAM SCHEDULE

TYPE	SIZE
TB1	5"x5" X 1/4" MIN. HSS

2009/06/02 CONSTRUCTION SET

KEY:

SOLAR DECATHLON HOUSE

DRAWN: VN	CHECKED: RZ
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DATE: 05-30-2009

SCALE:

$1/4" = 1'-0"$

SHEET TITLE:
MAIN FLOOR FRAMING PLAN

SHEET #: S-2



1. SEE ARCH. DWG'S FOR DIMENSIONS
2. EXTERIOR WALLS TO BE PRE-ENG SIP WALL PANELS

POST SCHEDULE

BEAM SCHEDULE

POINT LOAD SCHEDULE

SN:--	UNFACTORED SNOW LOAD [KN]
DL:--	UNFACTORED DEAD LOAD [KN]
LL:--	UNFACTORED LIVE LOAD [KN]

ISSUED DATES

DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
2009.05.30	CONSTRUCTION

2009/06/02 CONSTRUCTION SET

REVISIONS

KEY:

STAMP:

SOLAR DECATHLON
HOUSE

09-137

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VN

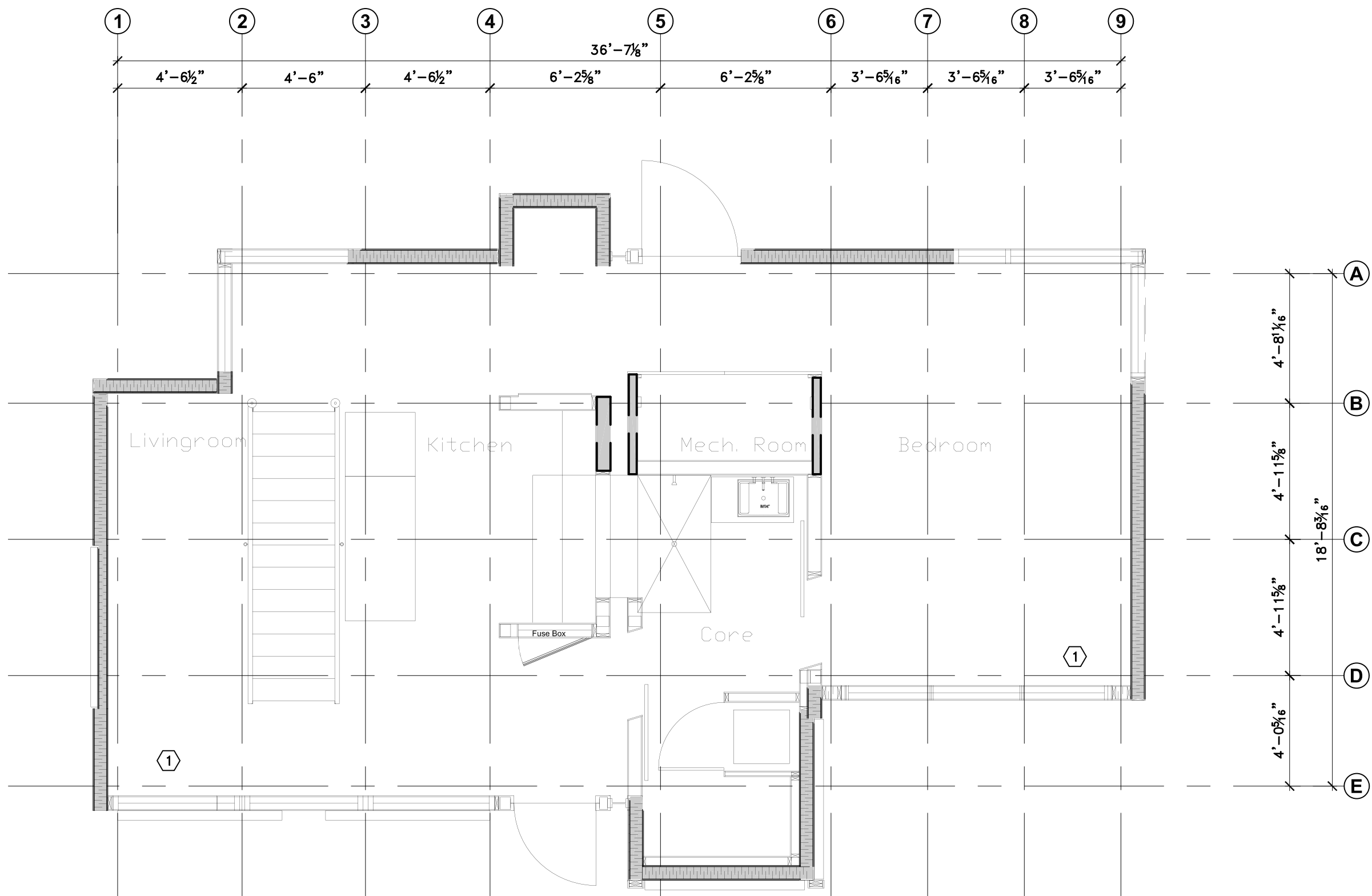
CHECKED:
RZ

DATE: 05-30-2009

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

SHEET TITLE:
SHEARWALL PLAN

SHEET #:
S-3





S-3

SHEAR WALL PLAN

1/4" = 1'-0"

	KEYNOTE SCHEDULE
TYPE	DESCRIPTION
①	BRACED BAY - SEE TIMBER DETAILS

SHEAR WALL SCHEDULE		
SYMBOL	TYPE	ANCHORAGE/HOLDOWN
	2x4/6 SPF @16" O/C C/W 1/2" PLYWOOD SHEATHED WALL NAILED PER NOTES ON S-0	SIM SDS 1/2"x3" SCREWS TO SUB STRUCTURE @12" O/C (MIN. 2 PER WALL SEGMENT)
	SIP SHEAR WALL PER ENGINEERED SHOP DRAWING	PER SHOP DRAWINGS

ISSUED DATES	
DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
2009.05.30	CONSTRUCTION

2009/06/02 CONSTRUCTION SET

REVISIONS	
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KEY:

STAMP:

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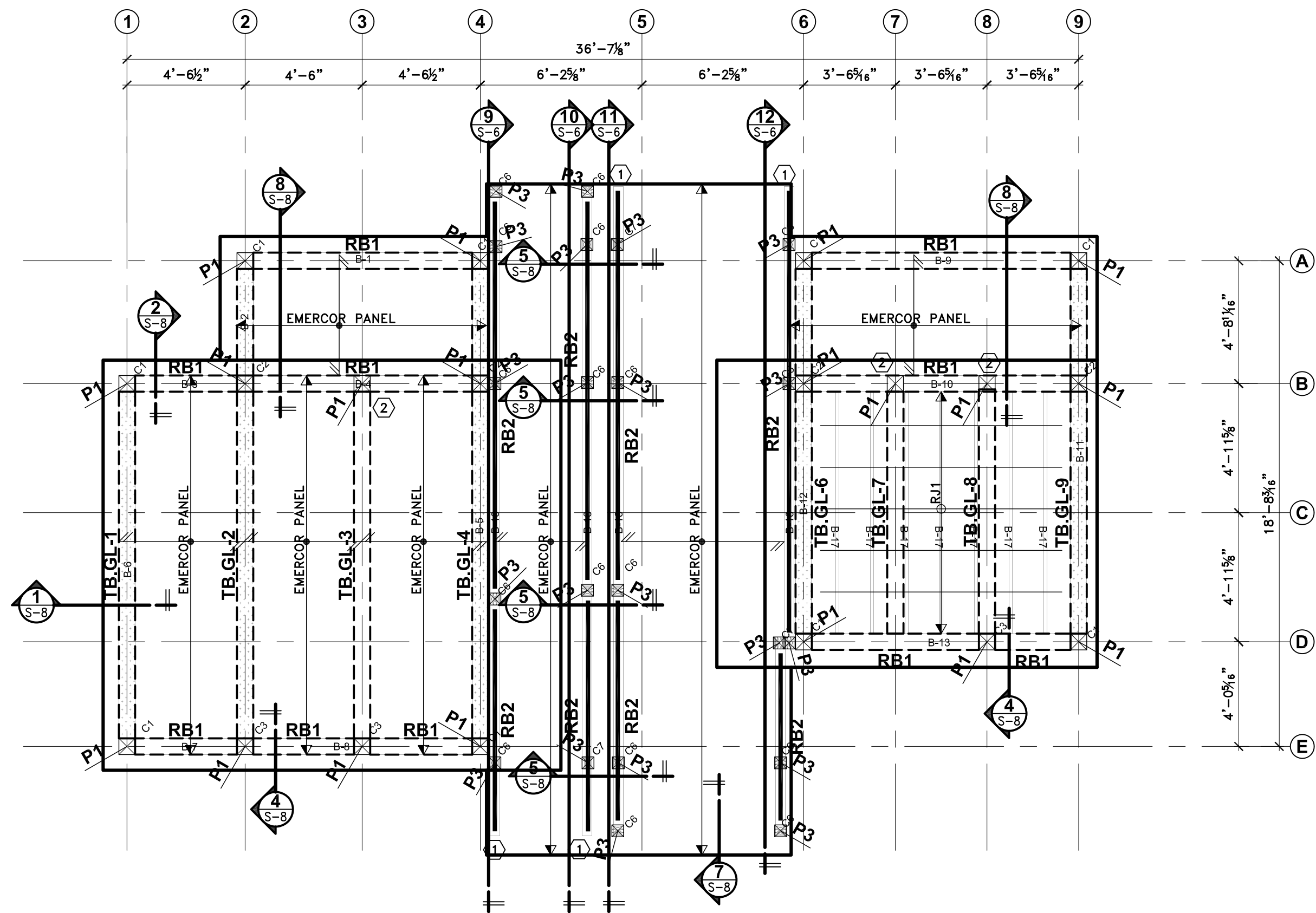
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DATE: 05-30-2009

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

SHEET TITLE:
ROOF FRAMING PLAN

SHEET #:
S-4



 **ROOF FRAMING PLAN_OPTION 2**
1/4" = 1'-0"

FRAMING NOTES

- SEE ARCH. DWG'S FOR DIMENSIONS
- EXTERIOR WALLS TO BE PRE-ENG SIP WALL PANELS
- INTERIOR WALLS TO BE 2x4 @16" O/C PER ARCH.

KEYNOTE SCHEDULE

TYPE	DESCRIPTION
①	CANTILEVER BEAM
②	POST ABOVE BEAM

POST SCHEDULE

TYPE	DESCRIPTION
P1	8X8" D.Fir-L #1 OR BETTER
P3	3-2xWT SPF No. 1/No. 2

ALL POST TO BE P3 UNLESS NOTED OTHERWISE

COLUMN NOTES

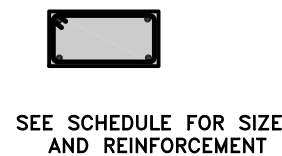
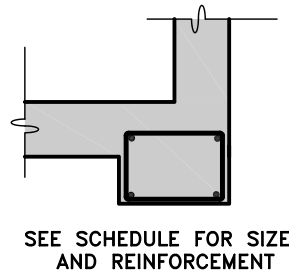
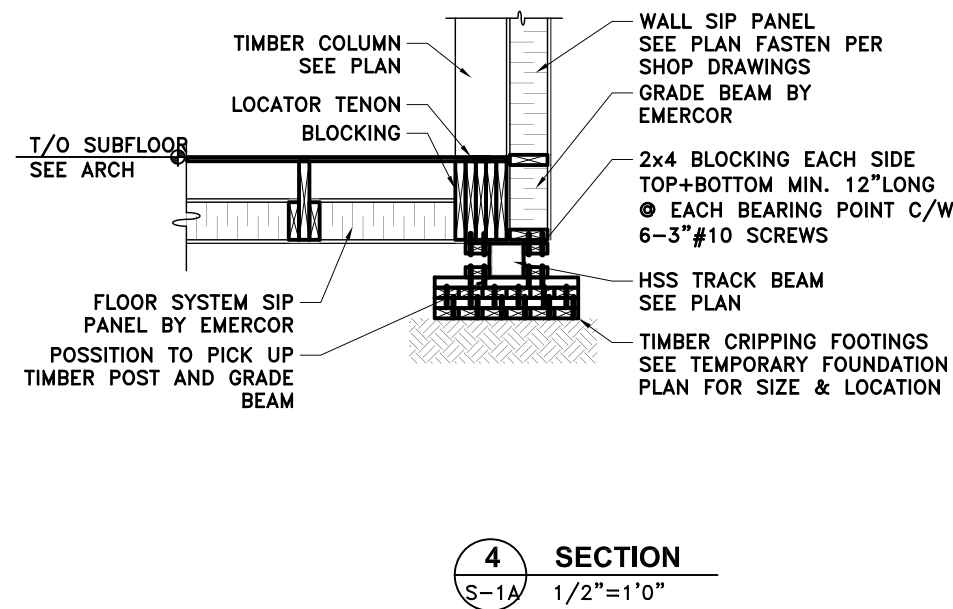
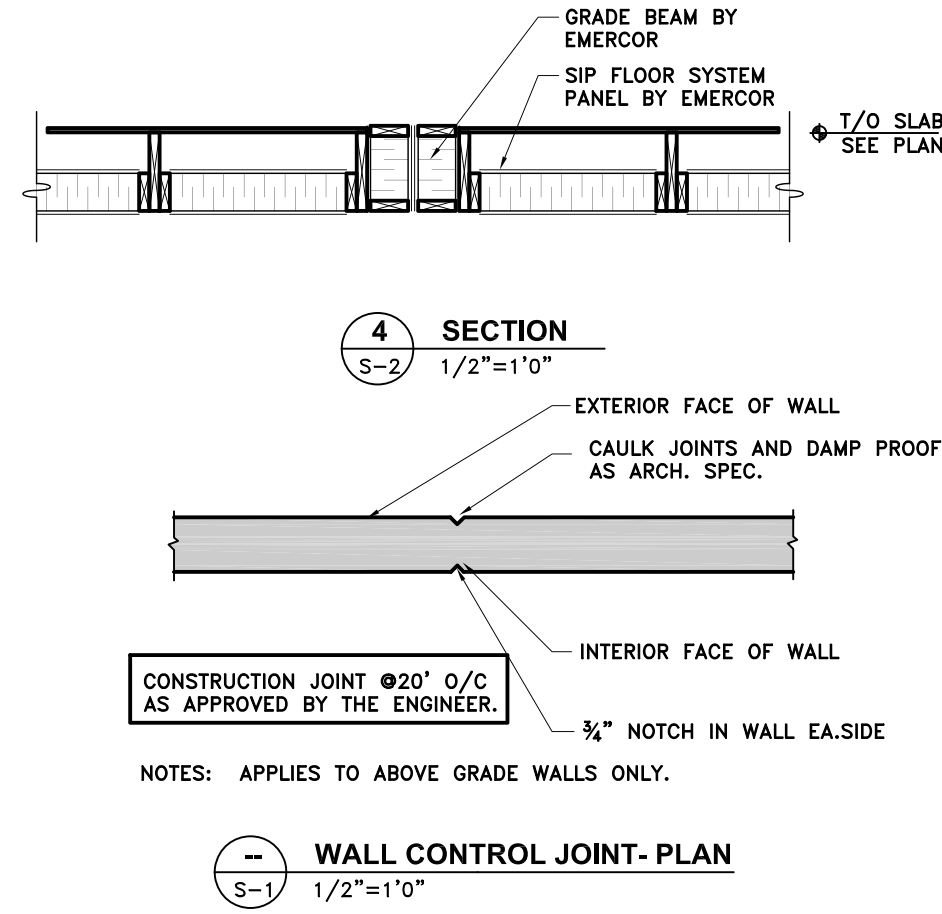
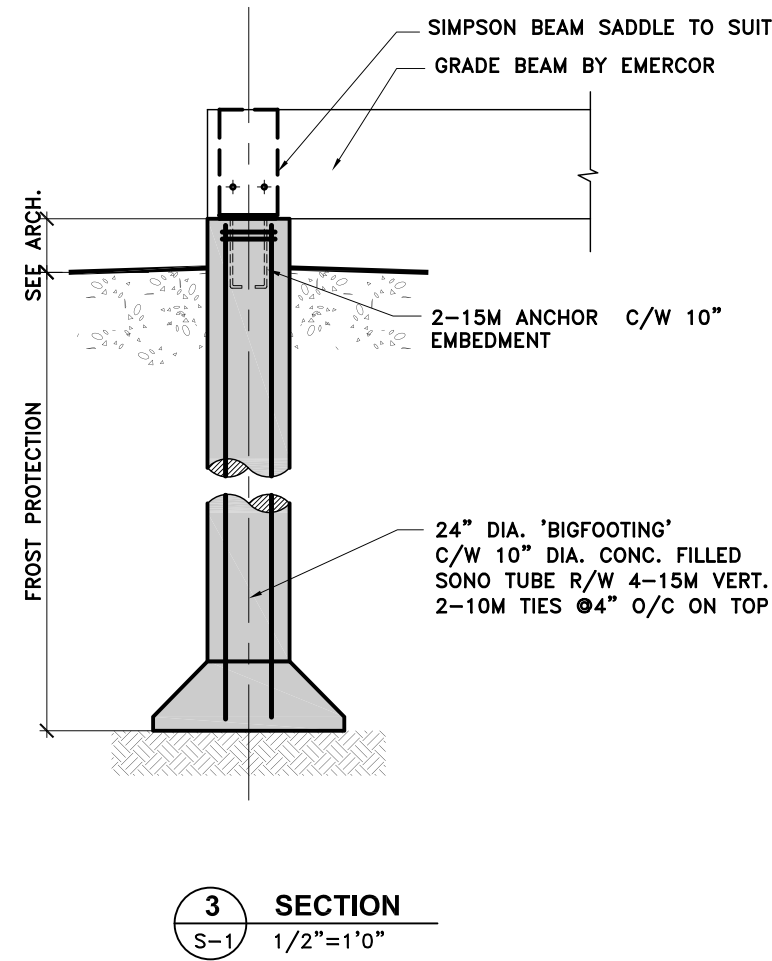
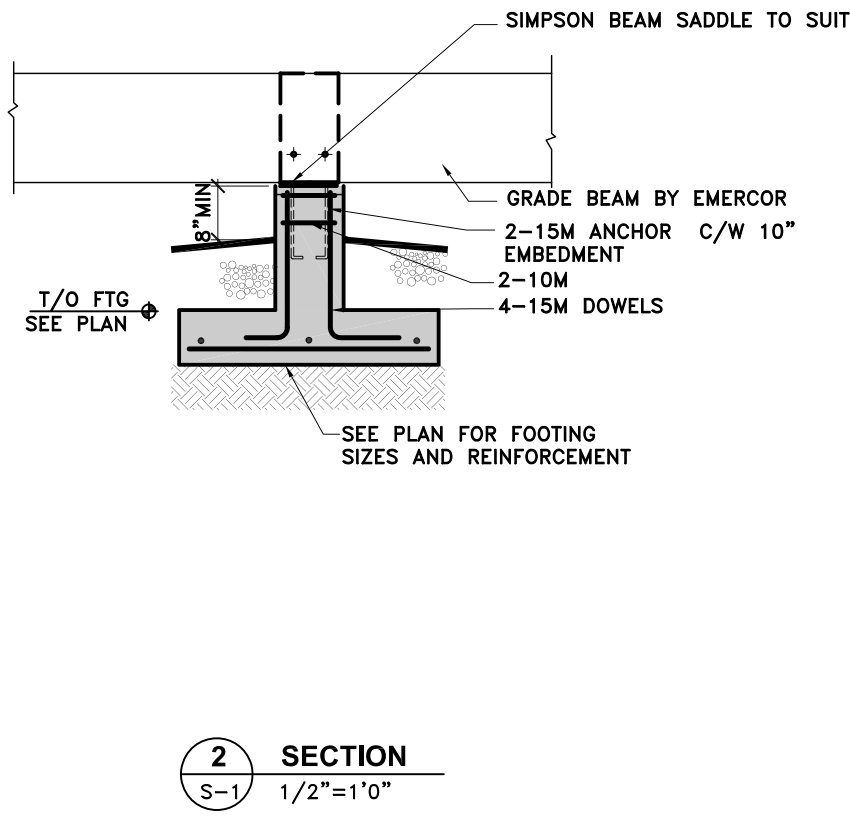
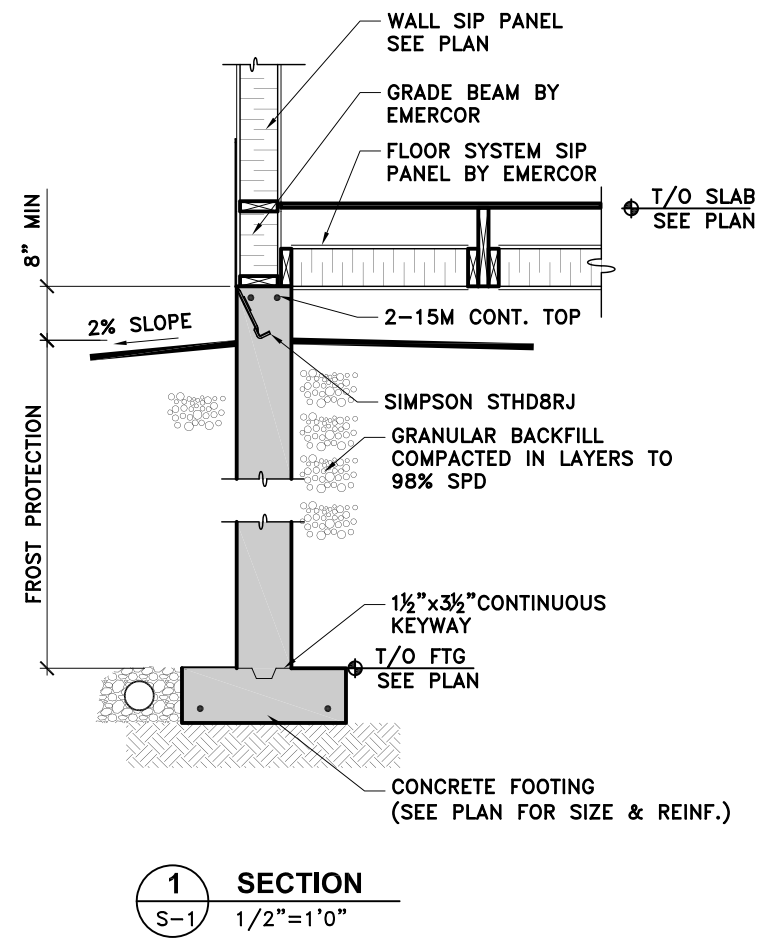
- WT = WALL THICKNESS
- ALL BUILT UP COLUMNS AT BEAM BEARING & GIRDER TRUSS BEARING MUST BE CONTINUOUS FROM POINT OF BEARING THRU TO CONCRETE.
- BUILT UP COLUMNS MAY ONLY BE CALLED UP ON PLAN WHERE BEARING OCCURS - BUT ARE CONTINUOUS AS PER NOTE 2.

BEAM SCHEDULE

TYPE	DESCRIPTION
RB1	8"x8" D.Fir-L #1 OR BETTER
RB2	3-2x6 SPF No.1/No.2

JOIST SCHEDULE

TYPE	DESCRIPTION
RJ1	2x6 SPF #1/2 @24" O/C (LOFT FRAMING BELOW)



PILASTER PL1
1/2"=1'-0"

COLUMN C1
1/2"=1'-0"

ISSUED DATES	
DATE:	DESCRIPTION
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DRAWN: VN CHECKED: RZ

DATE: 05-30-2009

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

SHEET TITLE: CONCRETE SECTIONS

SHEET #: S-5

ISSUED DATES	
DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
2009.05.30	CONSTRUCTION

KEY:	

STAMP:	

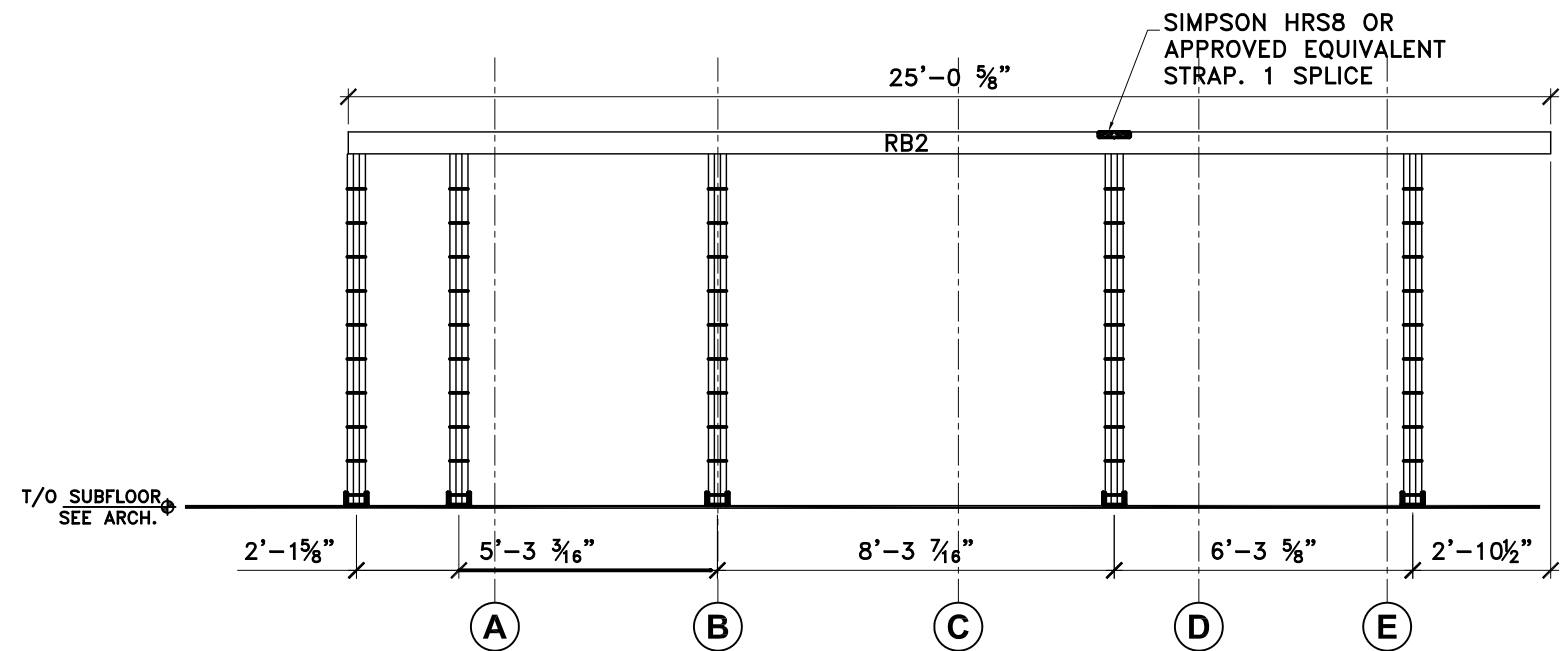
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VN	RZ

DATE:	05-30-2009
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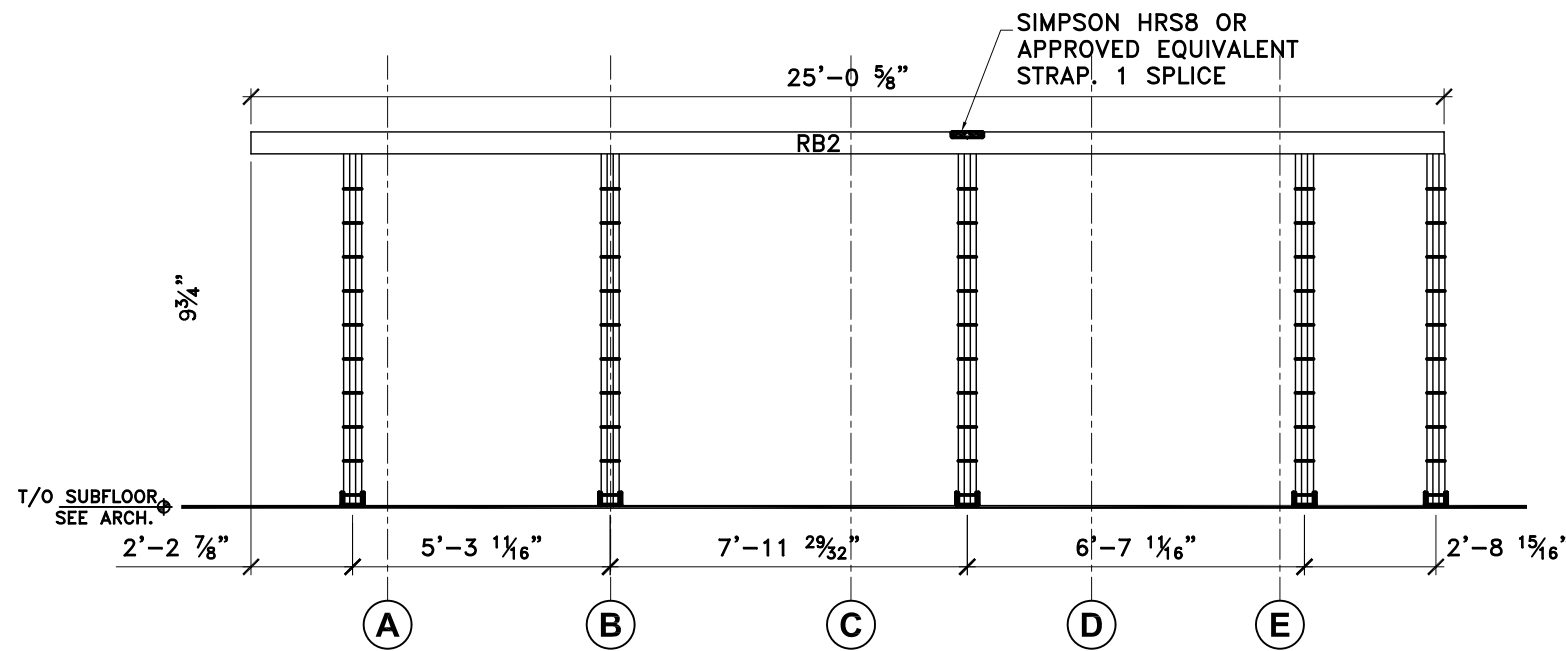
SCALE:	1/4" = 1'-0"
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SHEET TITLE:	FRAMING ELEVATIONS
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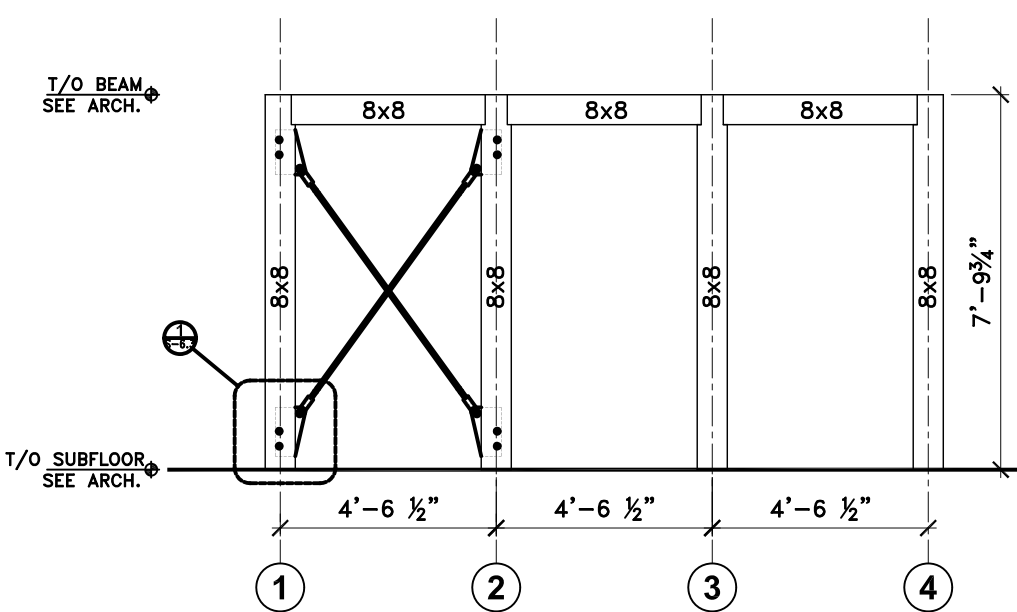
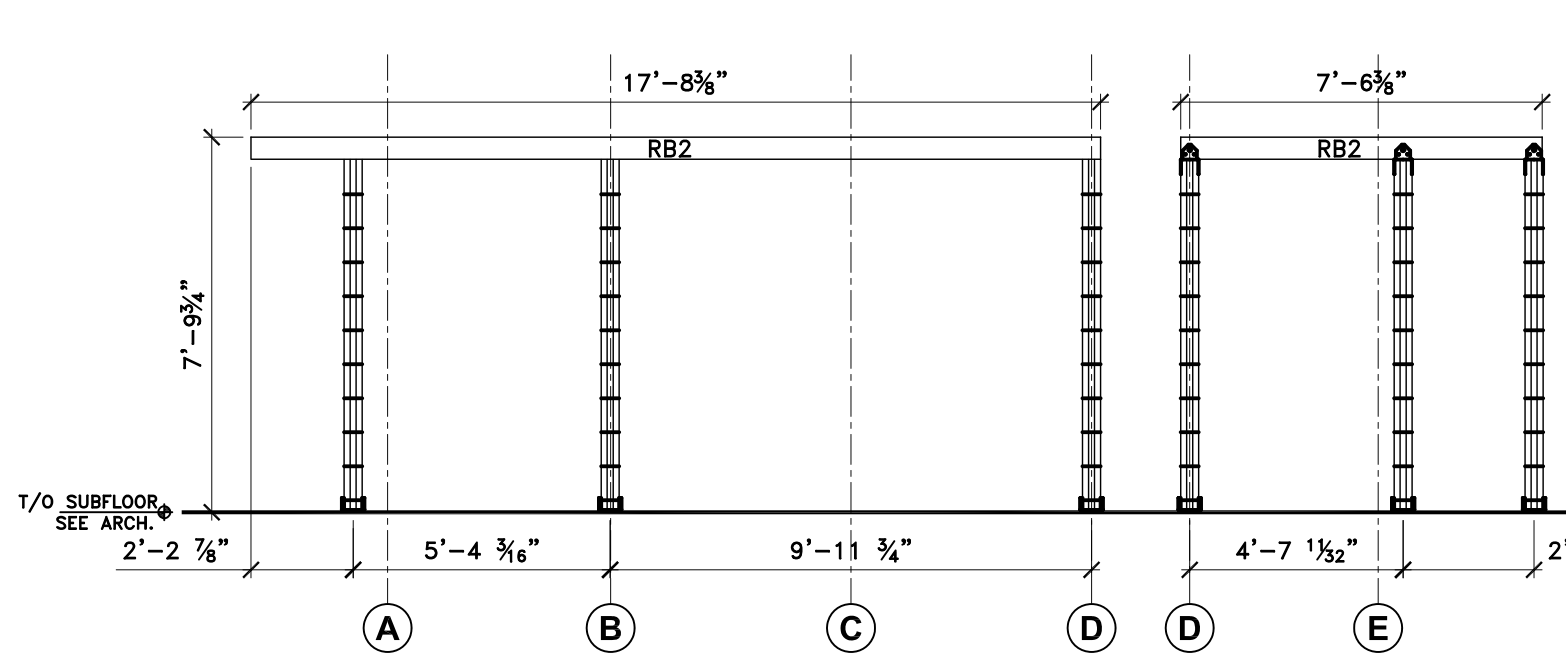
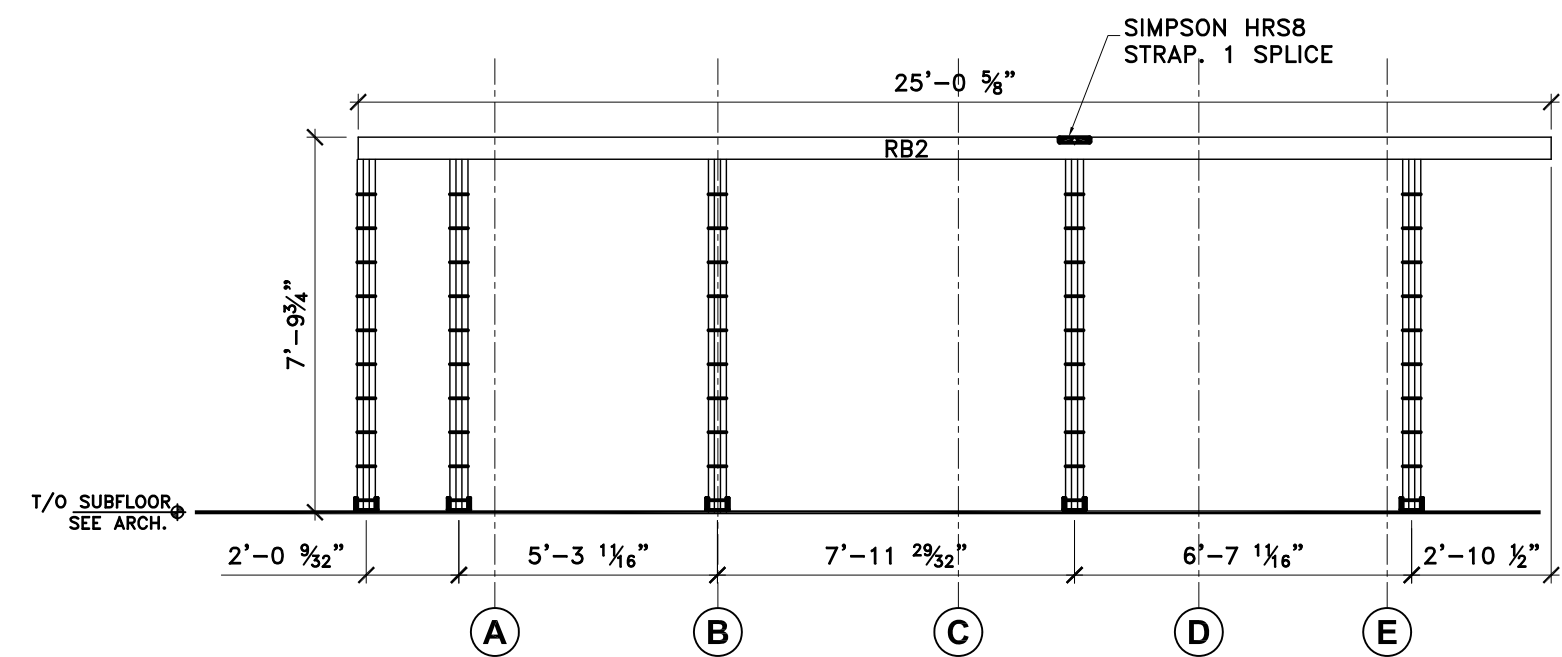
SHEET #:	S-6
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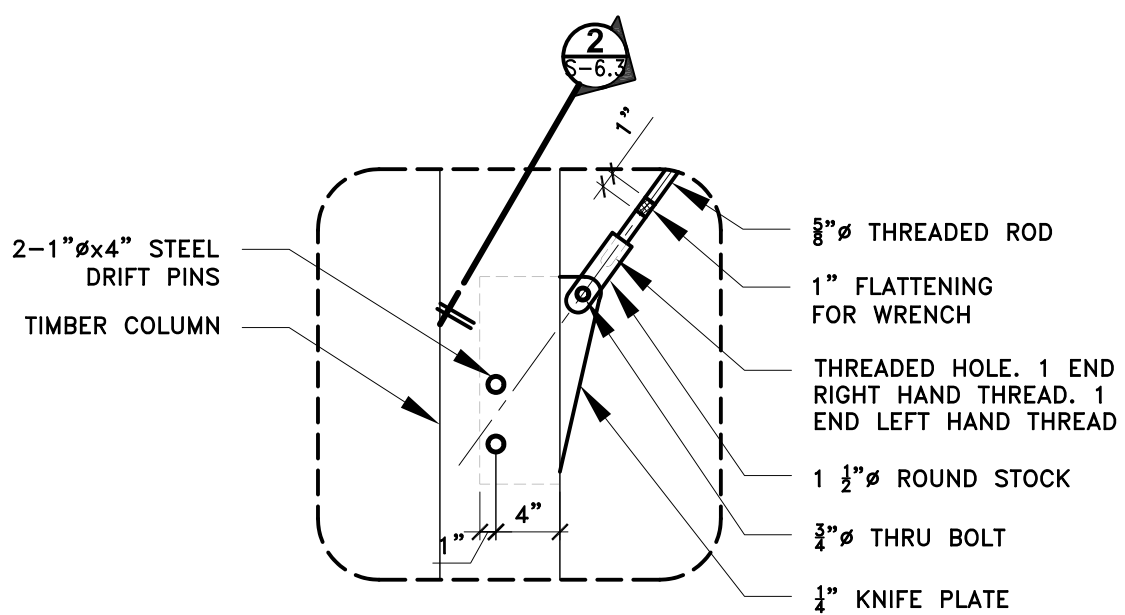
9 SECTION-FRAMING ELEVATION
S-4 1/4"=1'-0"



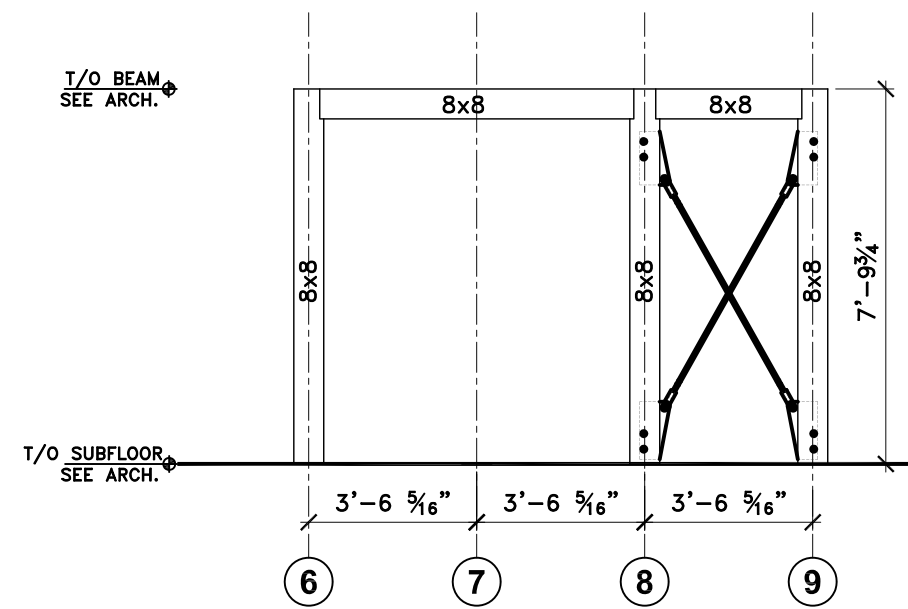
11
S-4 1/4"=1



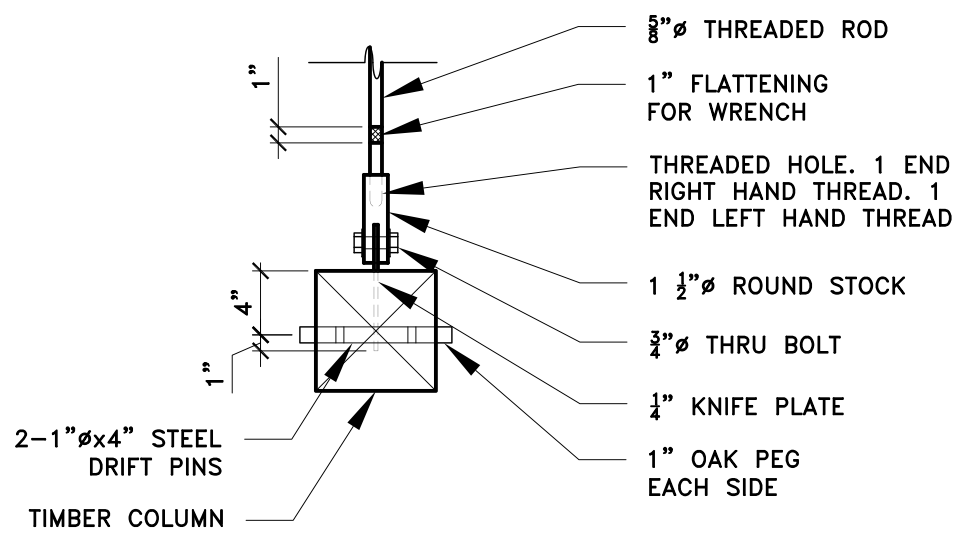
X-BRACING ELEVATION AT GL-E
1/4"=1'-0"



1 DETAIL
S-6 1"=1'-0"



X-BRACING ELEVATION AT GL-D
1/4"=1'-0"



- NOTE:
1. ALL CONNECTIONS BETWEEN BEAMS AND BUILT-UP COLUMNS TO BE BCS2-3/6 SIMPSON POST CAP OR APPROVED EQUIVALENT UNLESS NOTED OTHERWISE.
 2. ALL CONNECTIONS BETWEEN BUILT-UP COLUMNS AND FLOOR TO BE BC60 SIMPSON POST BASE OR APPROVED EQUIVALENT C/W 1/2" BLOCKING EACH SIDE UNLESS NOTED OTHERWISE.
 3. ALL BUILT-UP POSTS TO BE P3
 4. RB2: SEE PLAN

ISSUED DATES	
DATE:	DESCRIPTION
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HOUSE**

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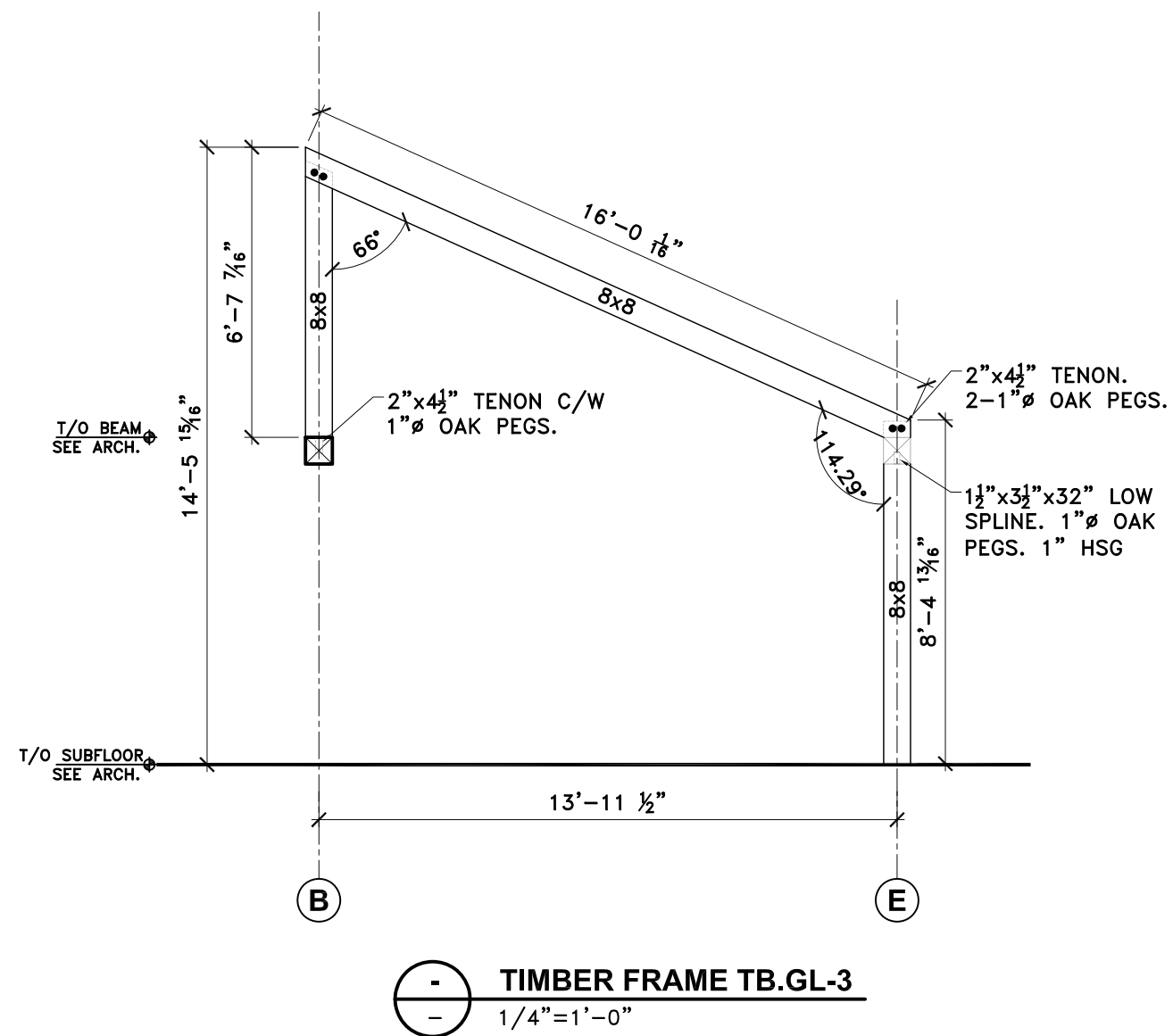
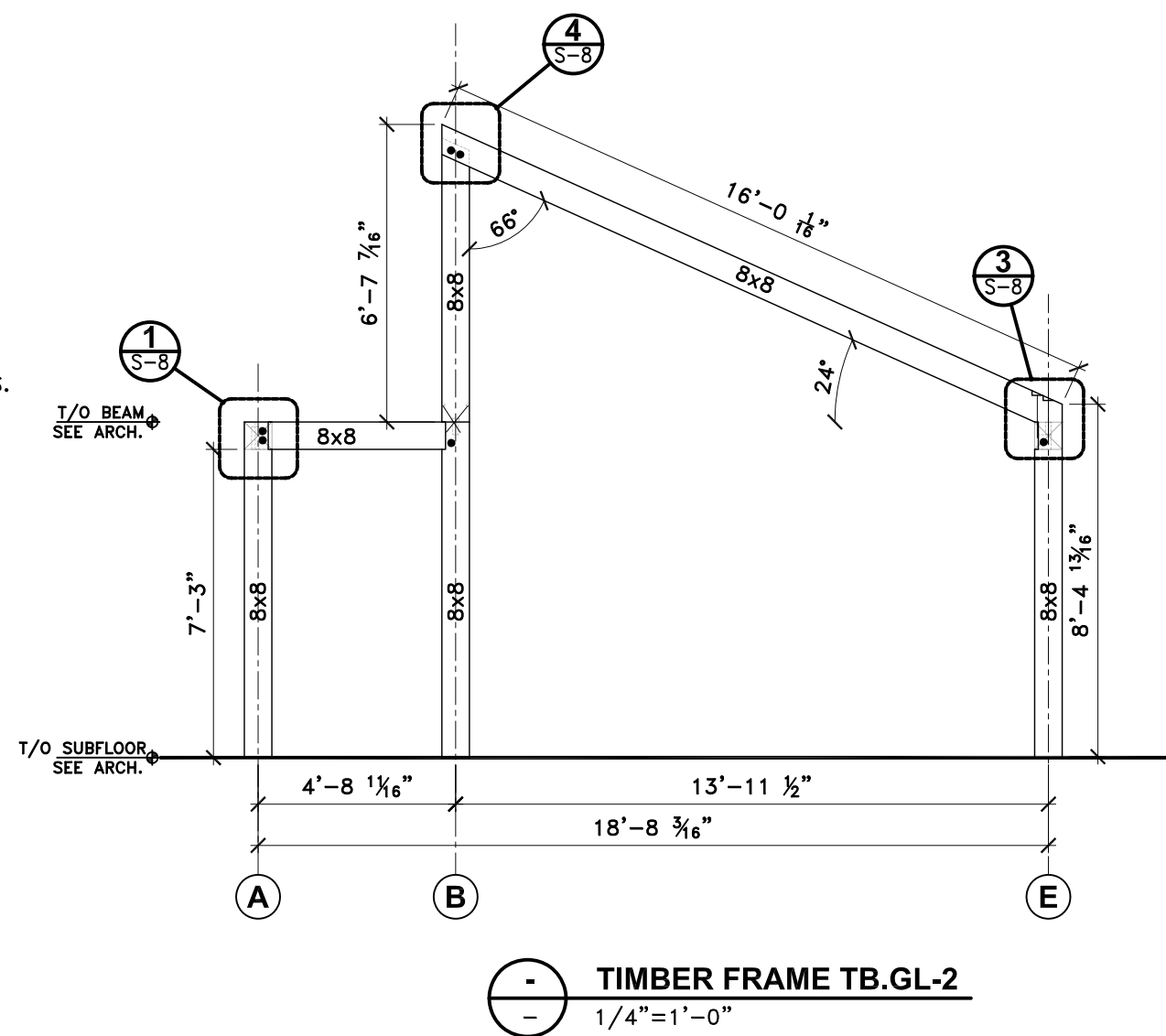
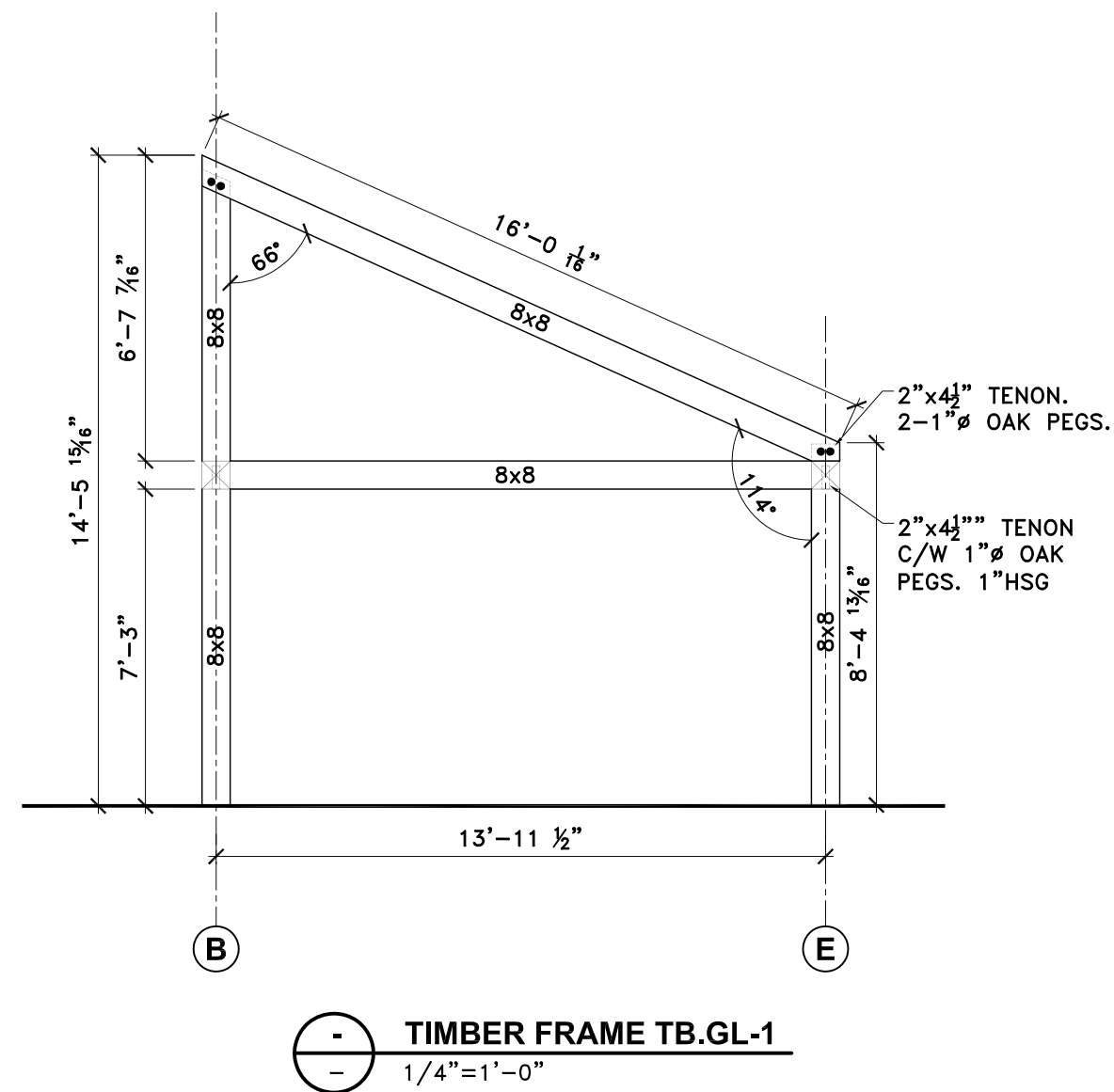
DRAWN: VN CHECKED: RZ

DATE: 05-30-2009

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

SHEET TITLE:
TIMBER FRAMINGS

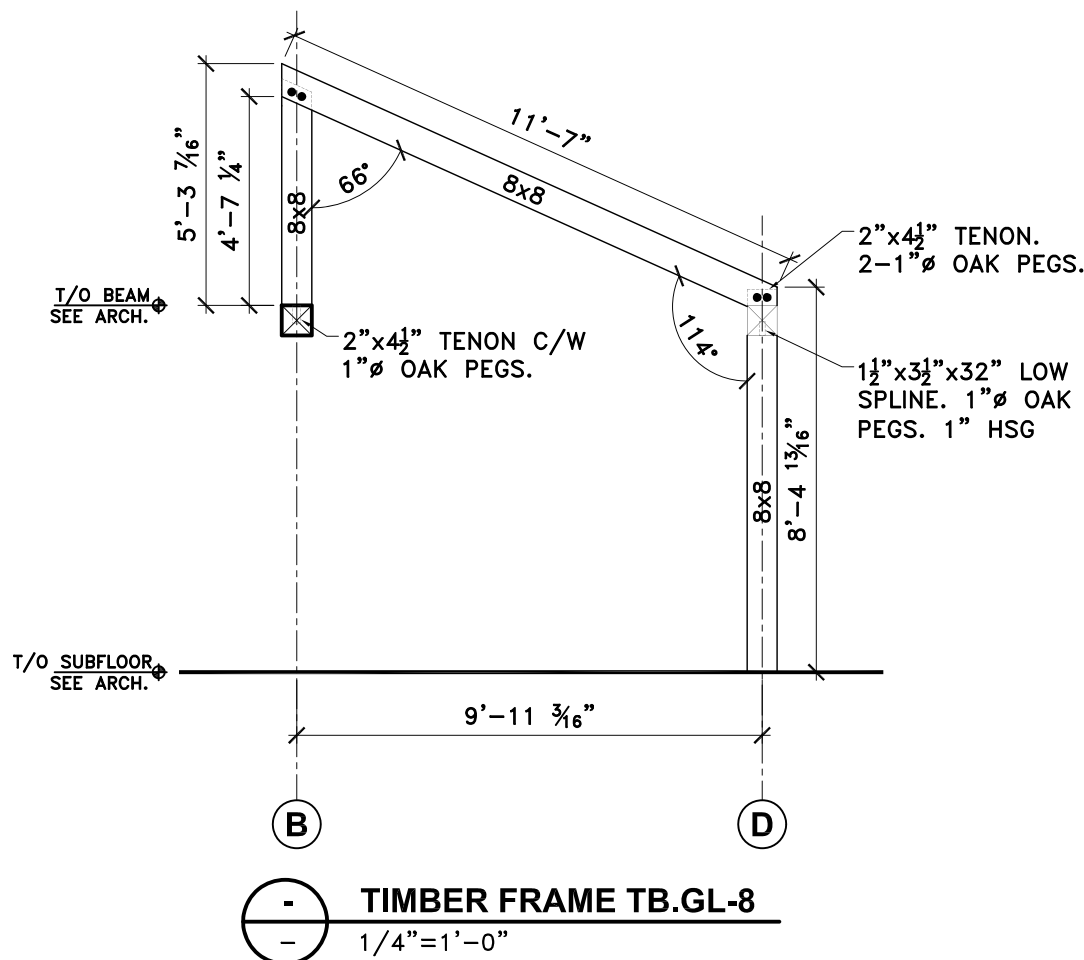
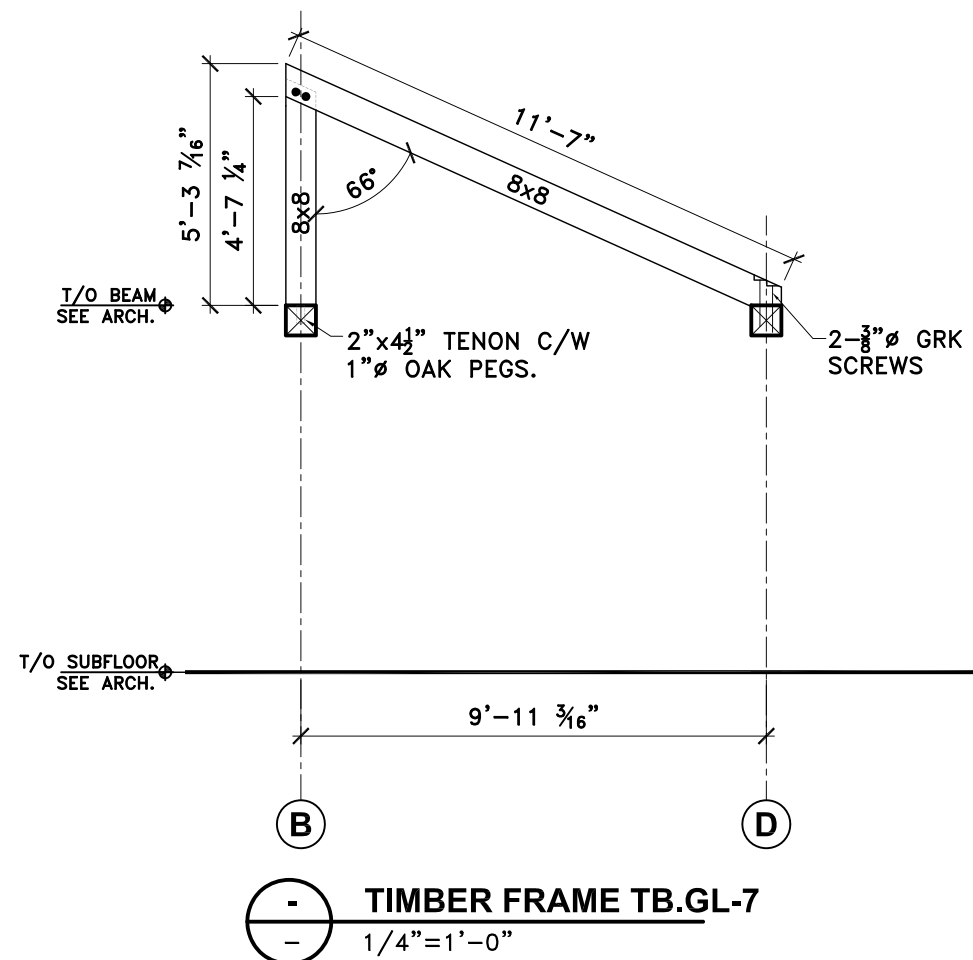
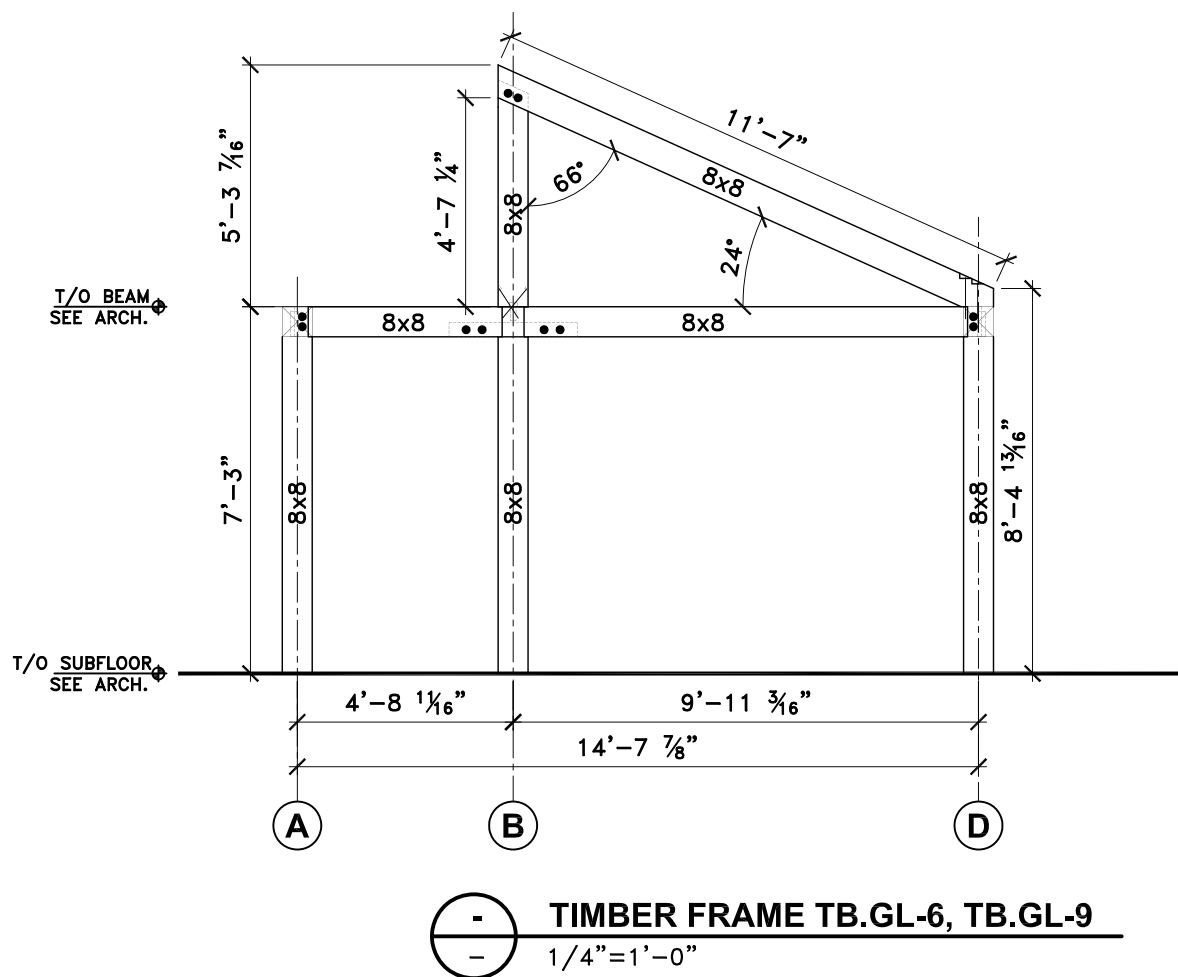
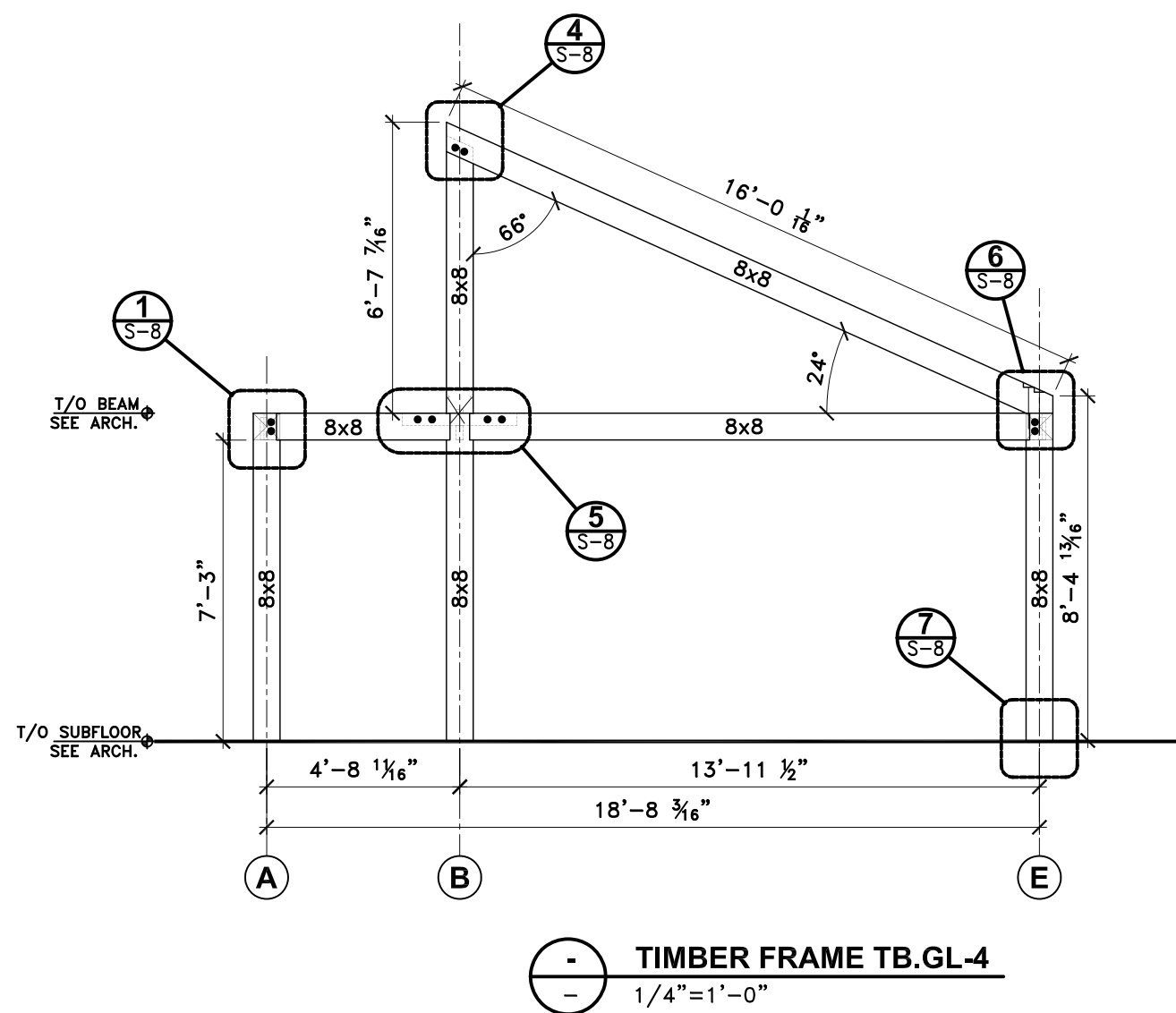
SHEET #:
S-7



TIMBER FRAMING NOTES

TIMBER CONNECTIONS MAY BE MODIFIED, BUT MUST BE APPROVED ON TIMBER FRAME SHOP DRAWINGS. SEE APPROVED TIMBER FRAME SHOP DRAWING FOR FINAL DIMENSIONS AND CONNECTIONS.

JOINERY PER ENGINEERED SHOP DRAWINGS.



ISSUED DATES	
DATE:	DESCRIPTION
2009.03.12	FOR REVIEW
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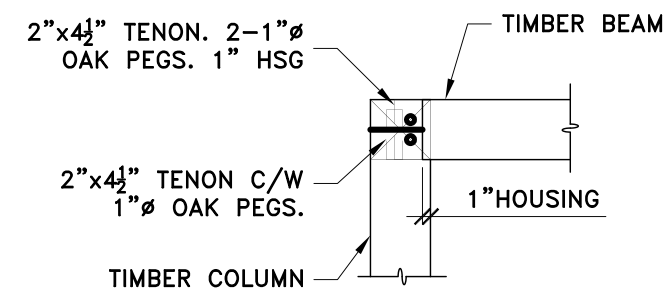
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DATE: 05-30-2009

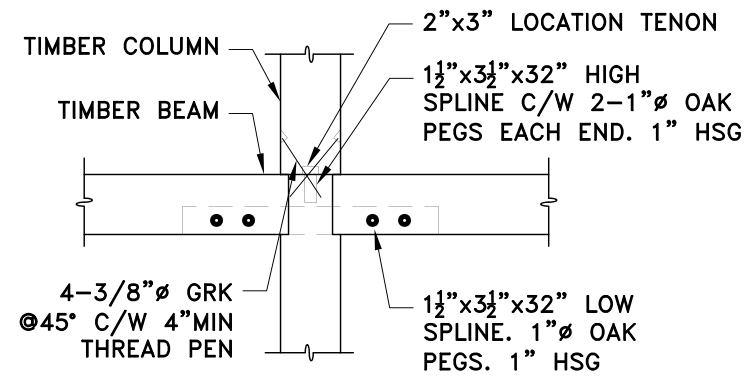
SCALE:
1/4" = 1'-0"

SHEET TITLE:
FRAMING DETAILS

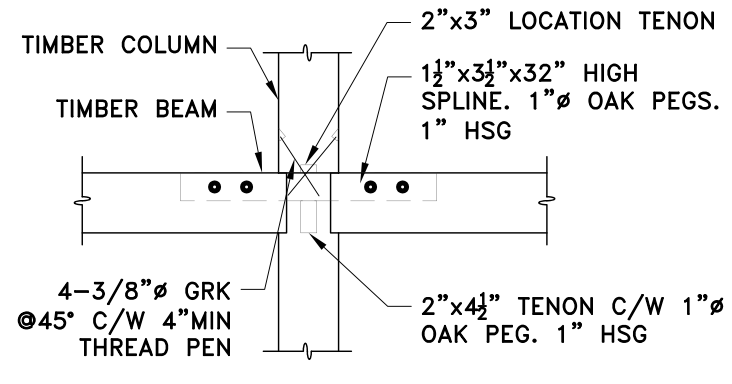
SHEET #:
S-8



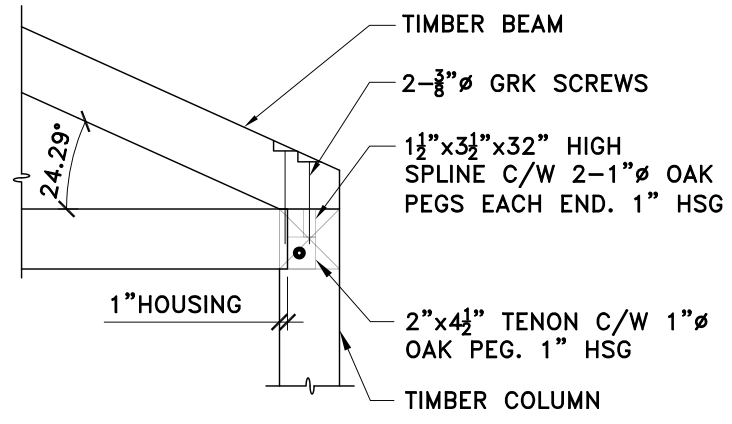
1 **DETAIL**
S-7 1/2"=1'-0"



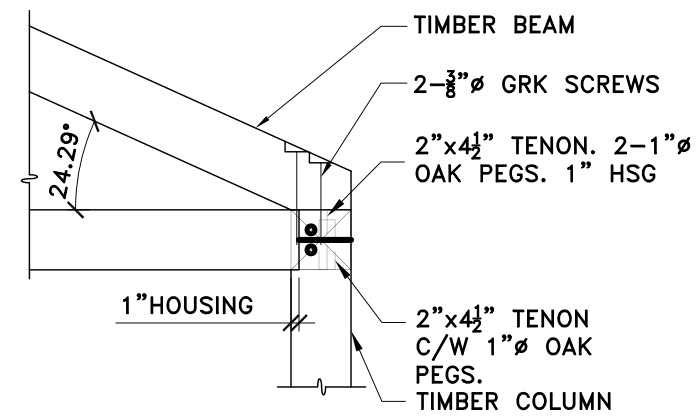
2 **DETAIL**
S-7 1/2"=1'-0"



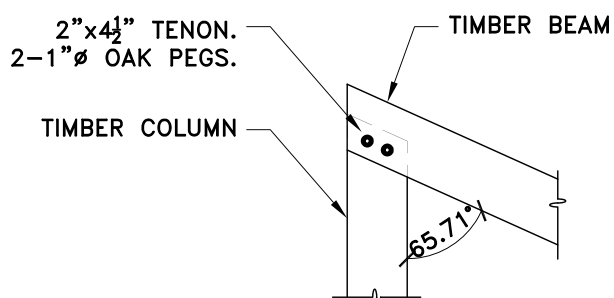
5 **DETAIL**
S-5 1/2"=1'-0"



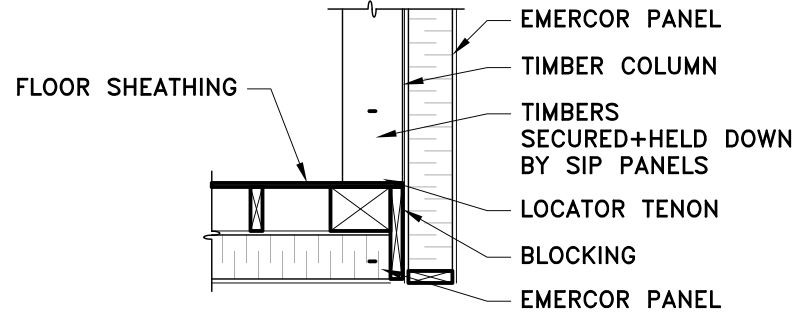
3 **DETAIL**
S-7 1/2"=1'-0"



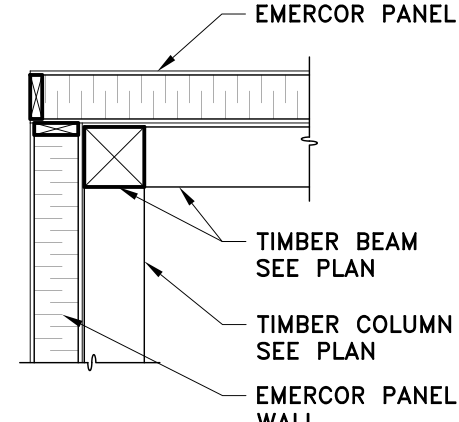
6 **DETAIL**
S-7 1/2"=1'-0"



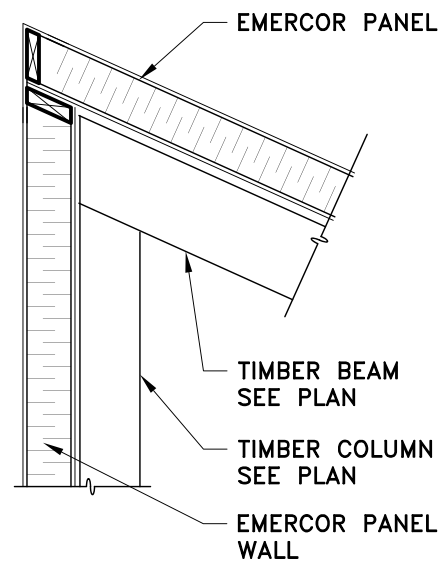
4 **DETAIL**
S-7 1/2"=1'-0"



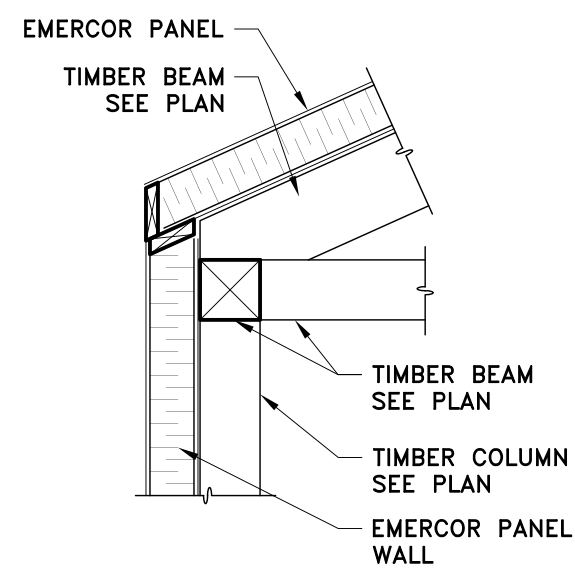
7 **DETAIL**
S-7 1/2"=1'-0"



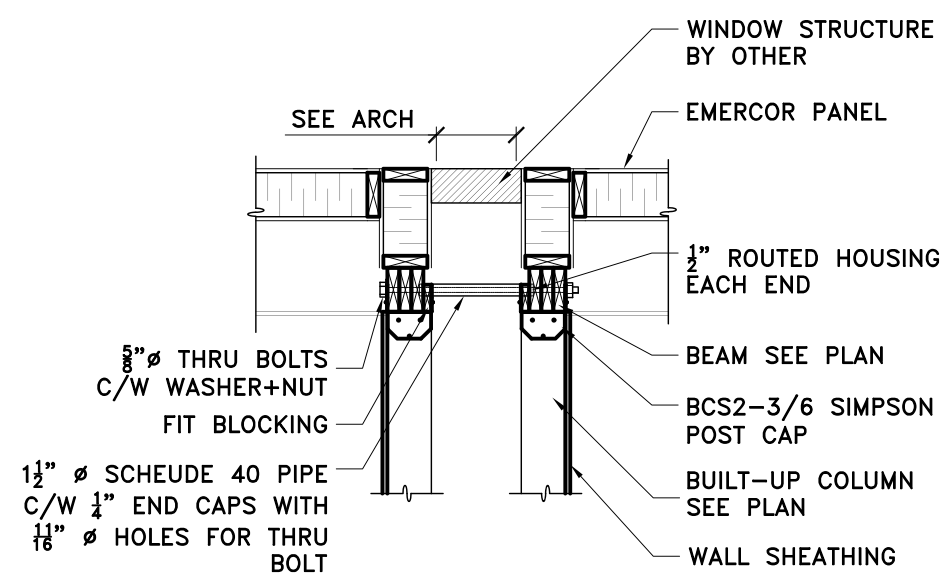
1 **DETAIL**
S-4 1/2"=1'-0"



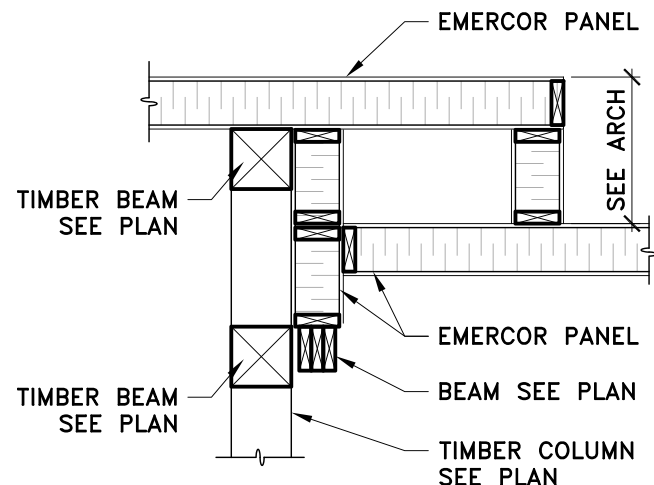
2 **DETAIL**
S-4 1/2"=1'-0"



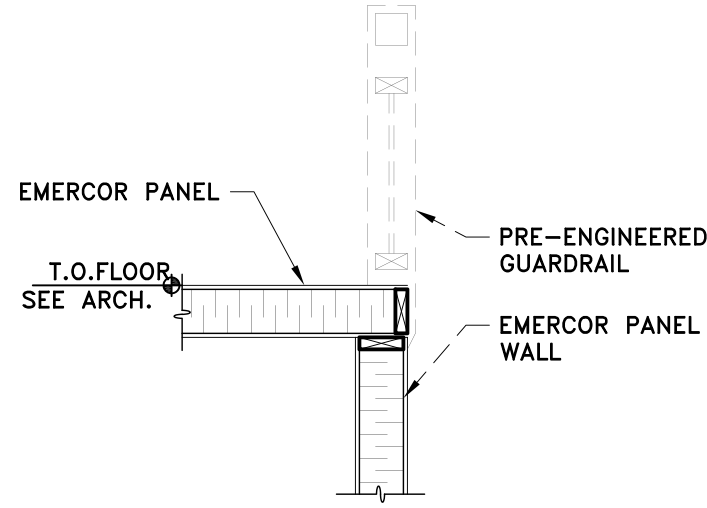
4 **DETAIL**
S-4 1/2"=1'-0"



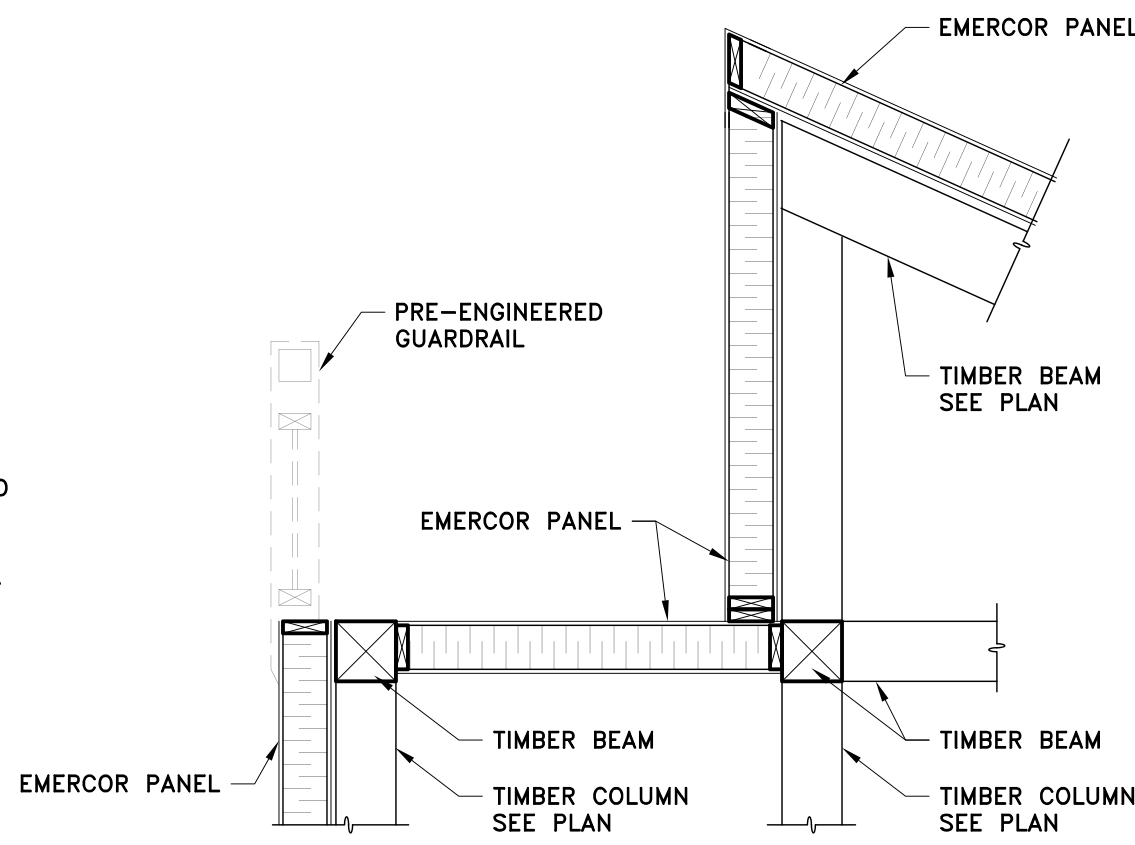
5 **SECTION**
S-4 1/2"=1'-0"



6 **DETAIL**
S-4 1/2"=1'-0"



7 **DETAIL**
S-4 1/2"=1'-0"



8 **DETAIL**
S-4 1/2"=1'-0"

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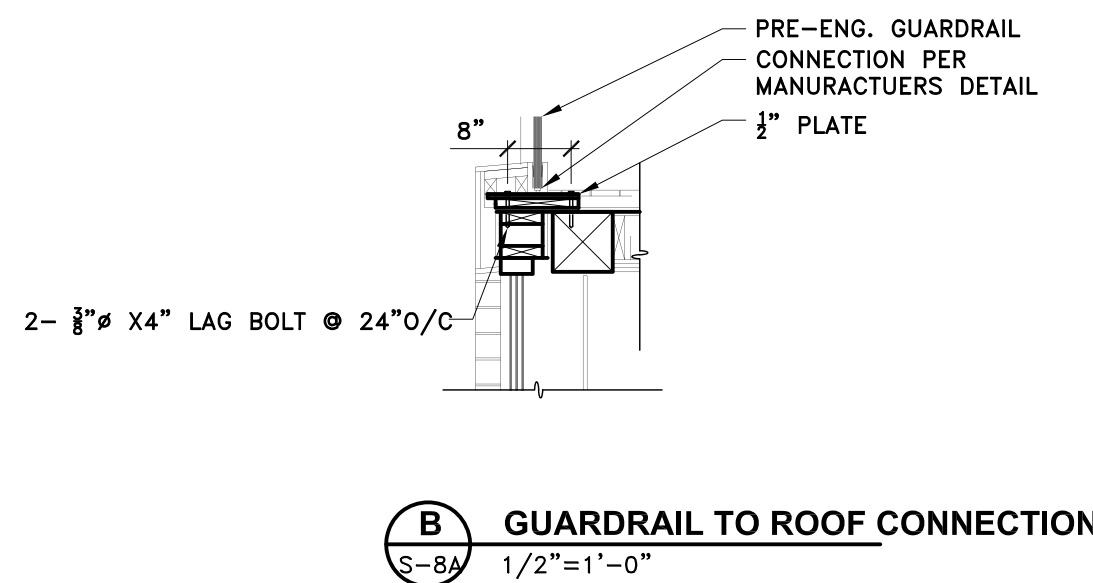
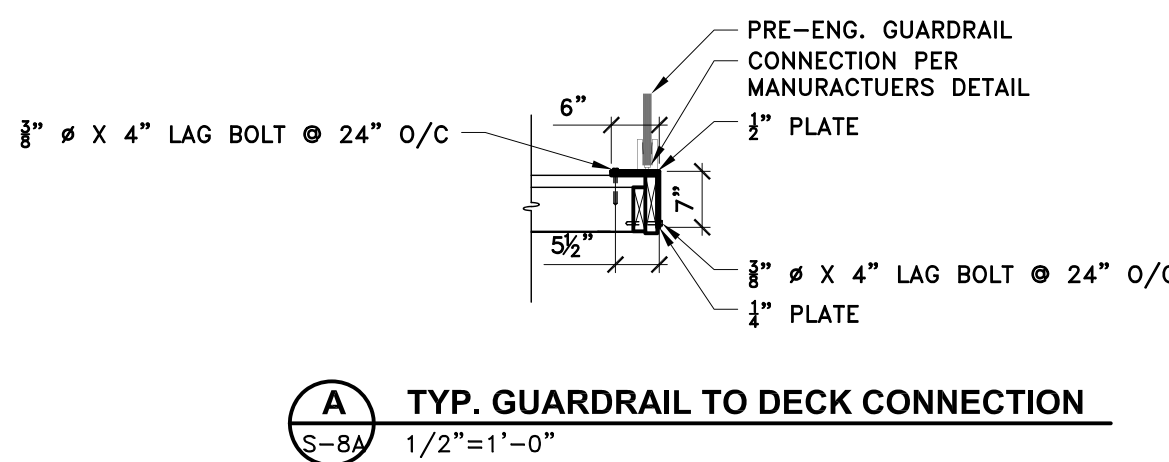
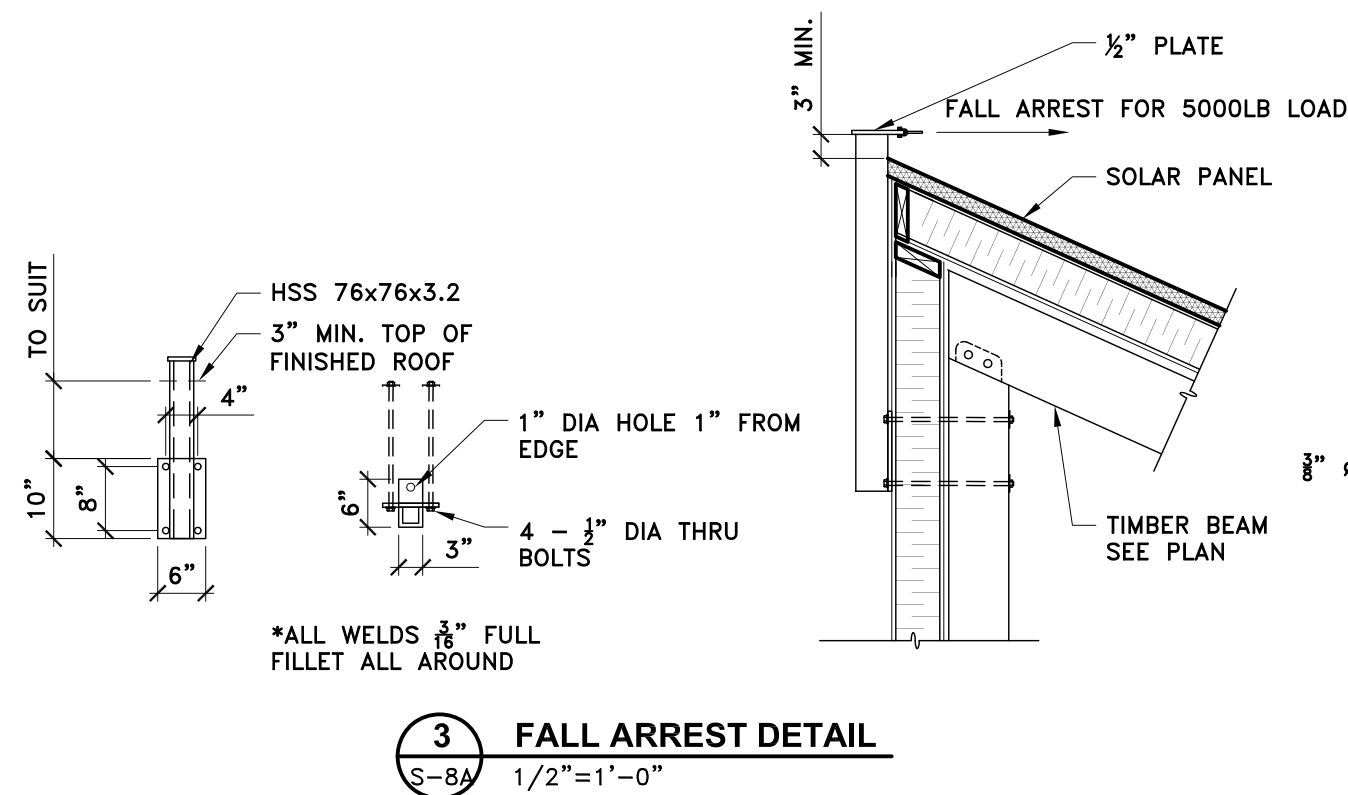
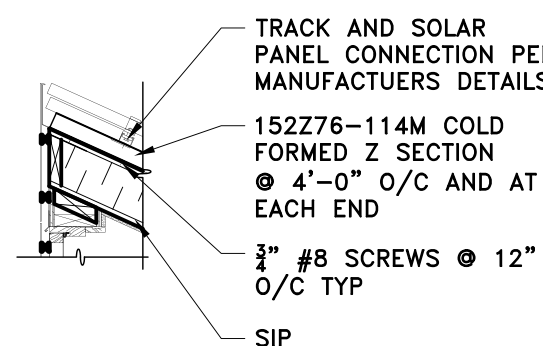
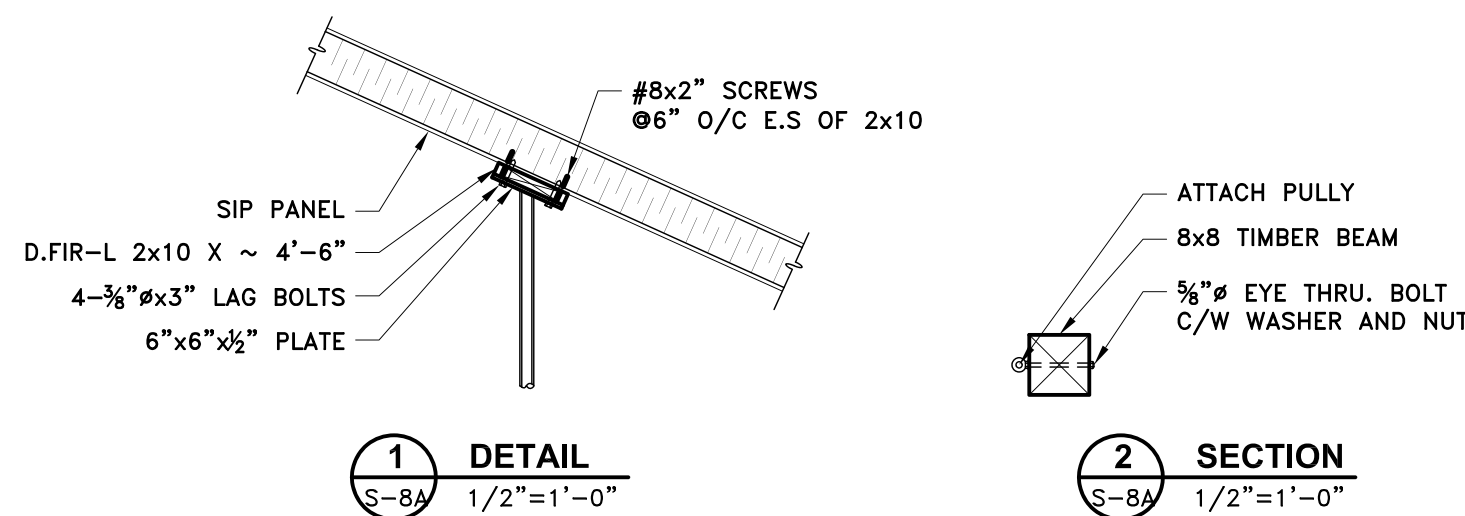
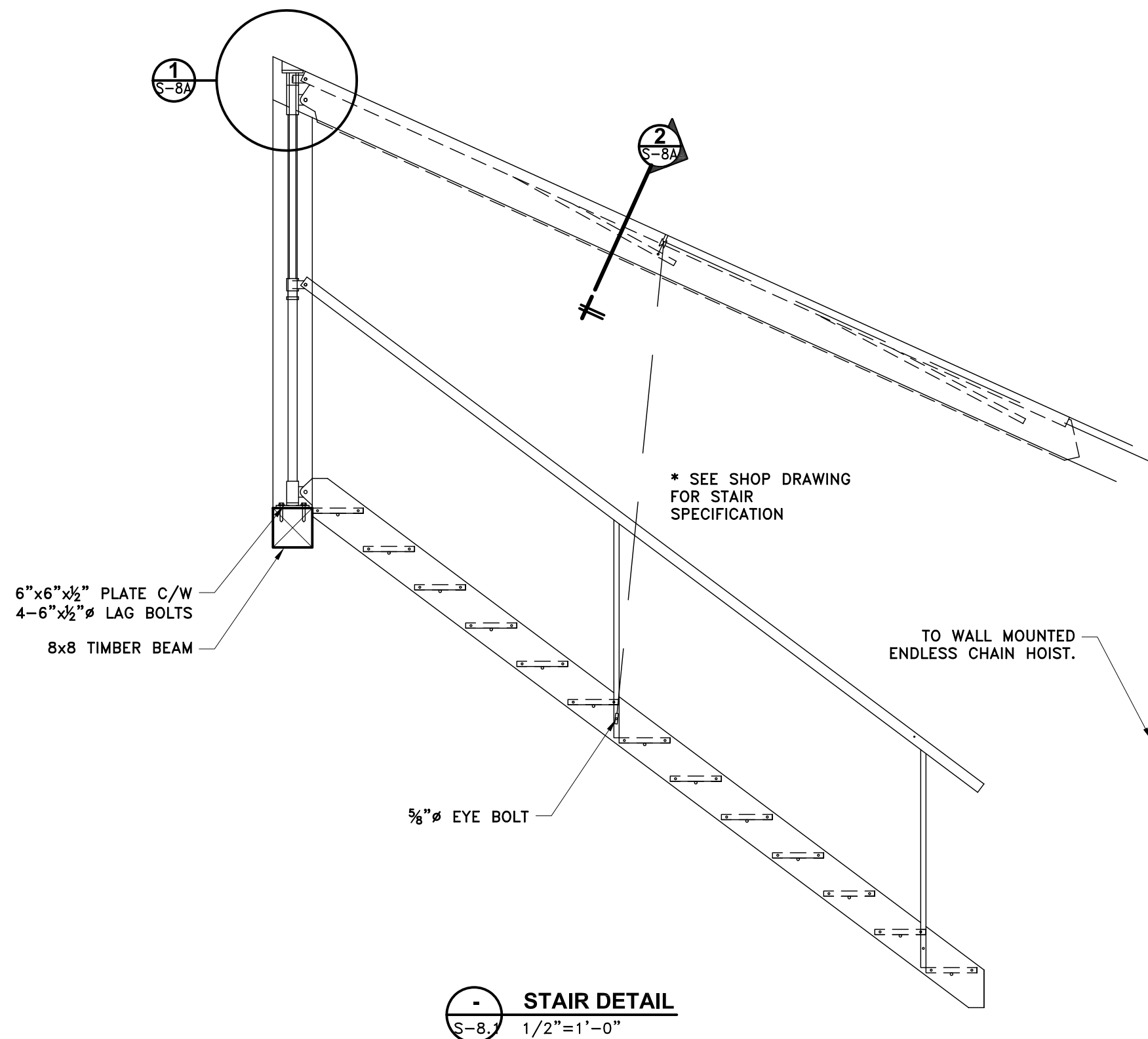
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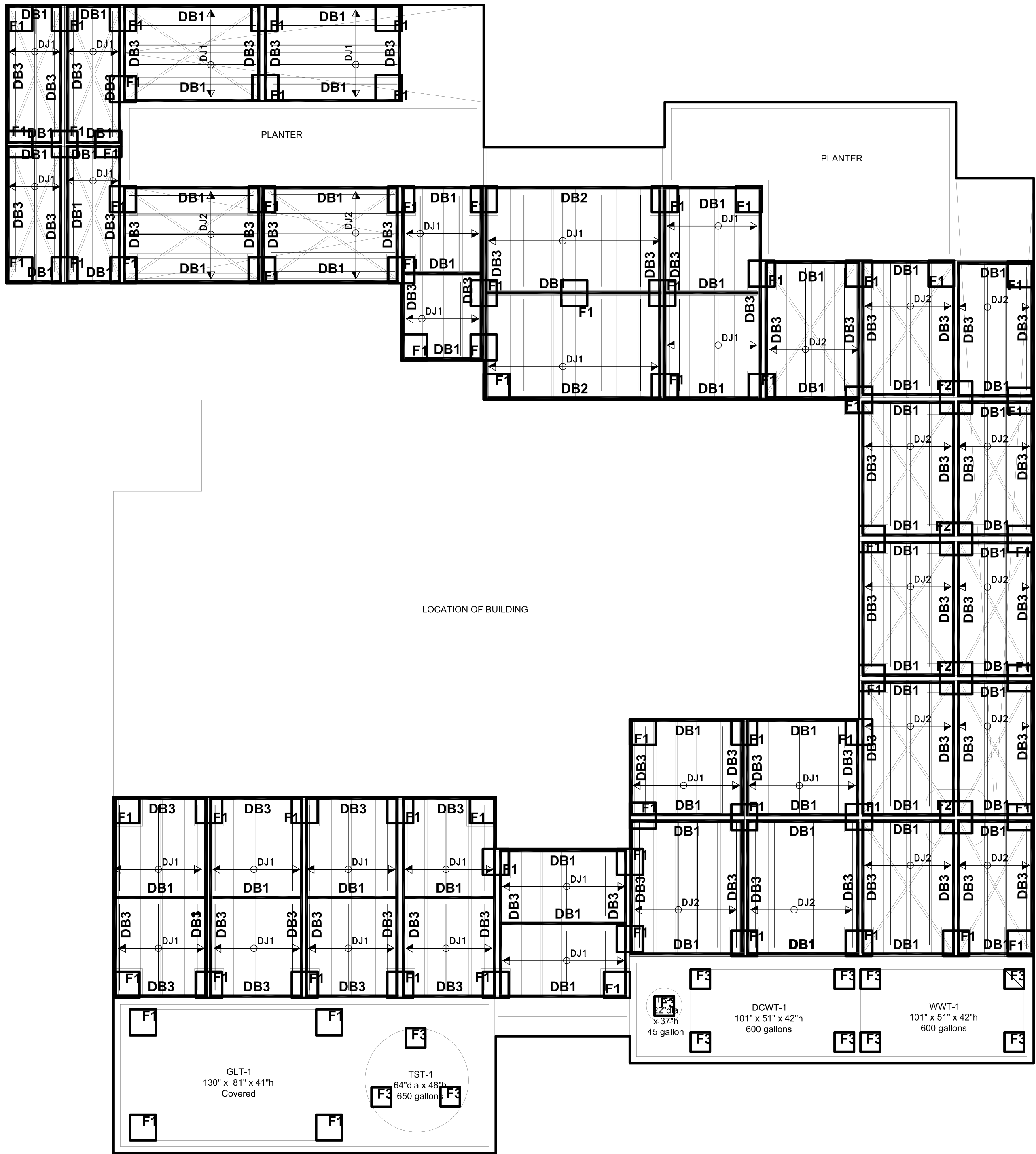
DATE: 05-30-2009

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

SHEET TITLE:
STAIR DETAILS

SHEET #:
S-8A





DECK PLAN
S-9 1/4" = 1'-0"

PLAN NOTES

1. SEE DWG. S-0 FOR ADDITIONAL NOTES
2. SEE SHOP DRAWINGS FOR EXACT MEASUREMENTS
3. FOOTING LEVELS MAY VARY ACCORDING TO SITE CONDITIONS.
4. X-BRACE PANELS WITH LIGHT GAUGE STEEL STRAP
5. FOOTING ARE SIZED BASED ON AN ALLOWABLE BEARING CAPACITY OF 70kPa (1500 PSF).

WOOD CRIBBED FOOTING SCHEDULE

TYPE	DESCRIPTION			
	LENGTH	WIDTH	HEIGHT	NOTES
F1	1'-4"	1'-4"	SITE FIT	-----
F2	1'-8"	1'-8"	SITE FIT	-----
F3	1'-0"	1'-0"	SITE FIT	-----
F4	8"	8"	SITE FIT	-----

DECK BEAM SCHEDULE

TYPE	DESCRIPTION
DB1	2-PLY:1-2x8 SPF No.1/No.2,1-2x6 SPF No.1/No.2
DB2	2-2x8 SPF No.1/No.2
DB3	1-2x8 SPF No.1/No.2

DECK JOIST SCHEDULE

TYPE	DESCRIPTION
DJ1	2x6@24" O/C
DJ2	2x6@12" O/C

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**SOLAR DECATHLON
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09-137

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05-30-2009

SCALE:

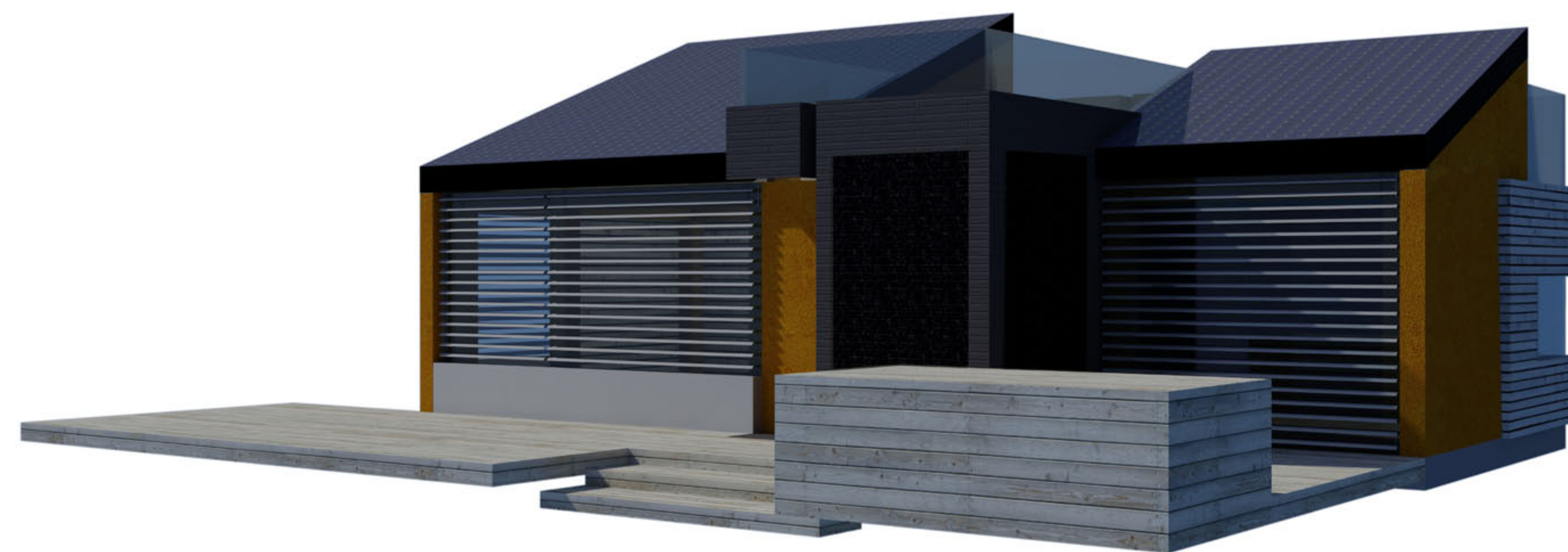
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SHEET TITLE:

DECK PLAN

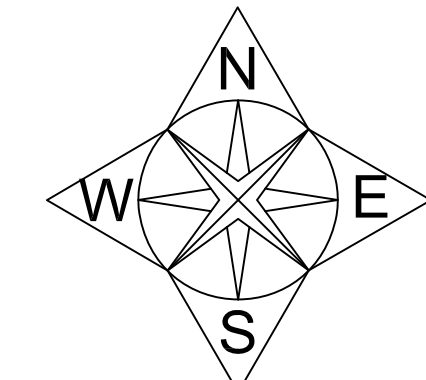
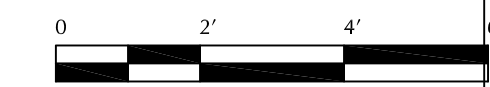
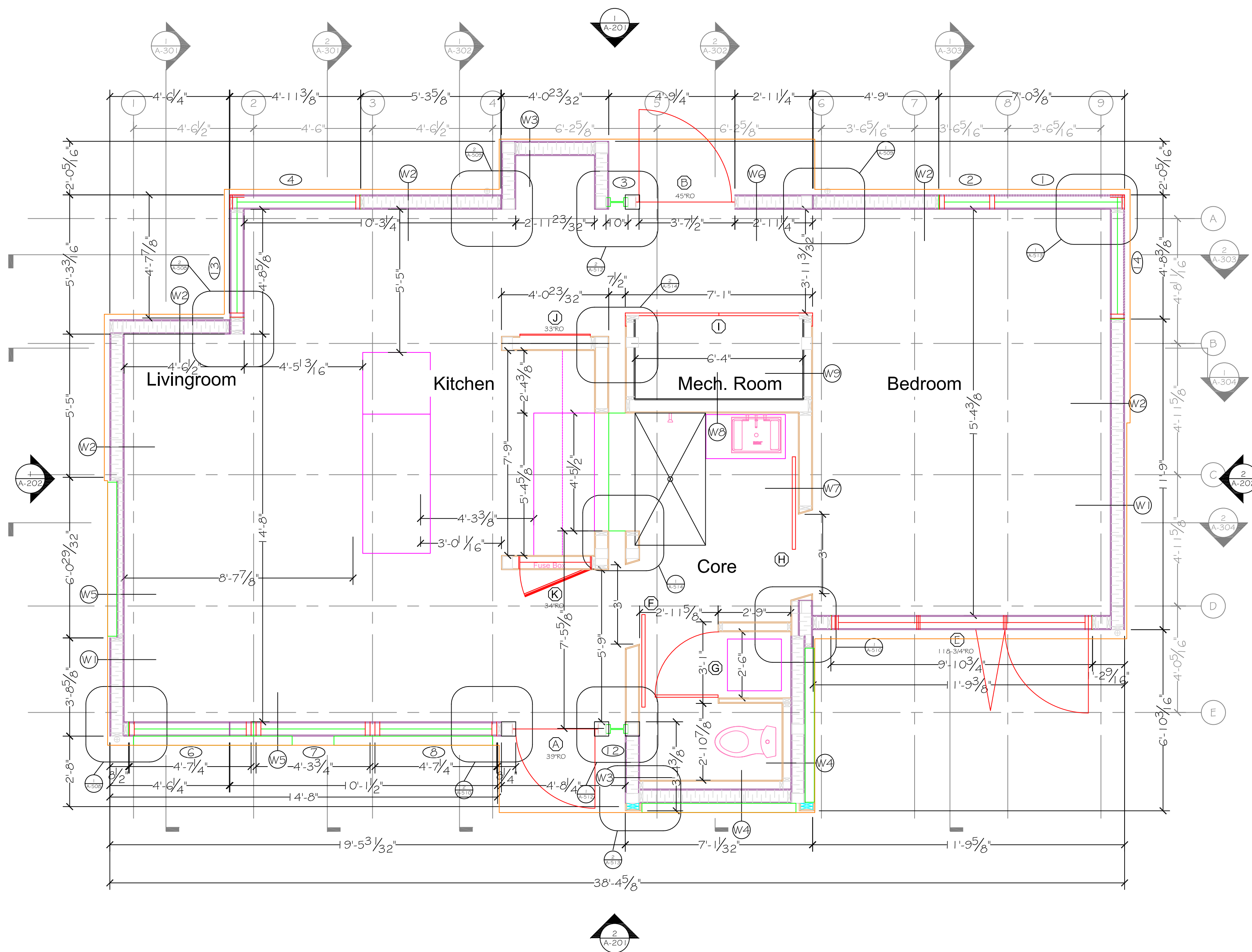
SHEET #:

S-9



General
Landscape
Structural
Architectural

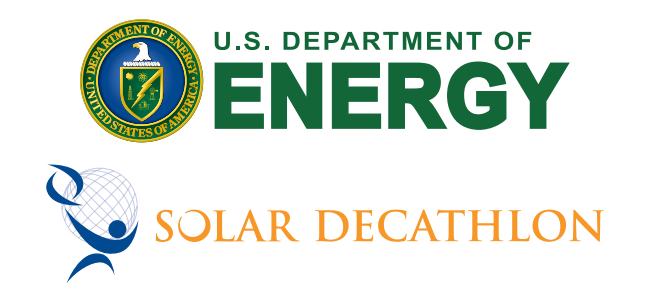
Interior
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Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



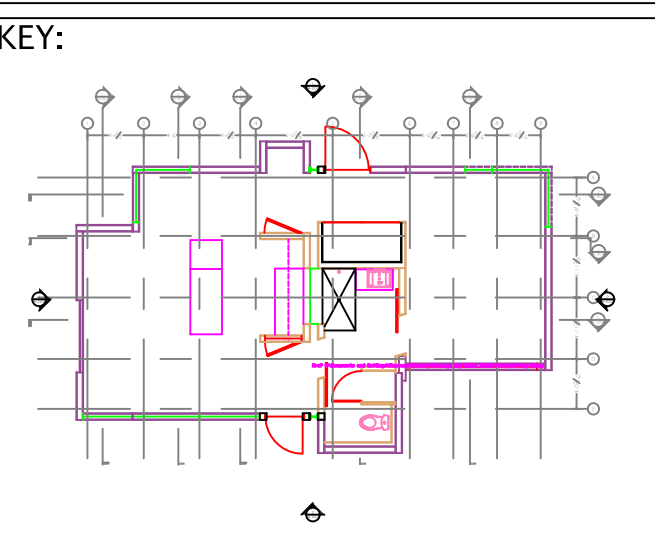
1
A-101 FLOOR PLAN
3/8" = 1' 0"



Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



STAMP:

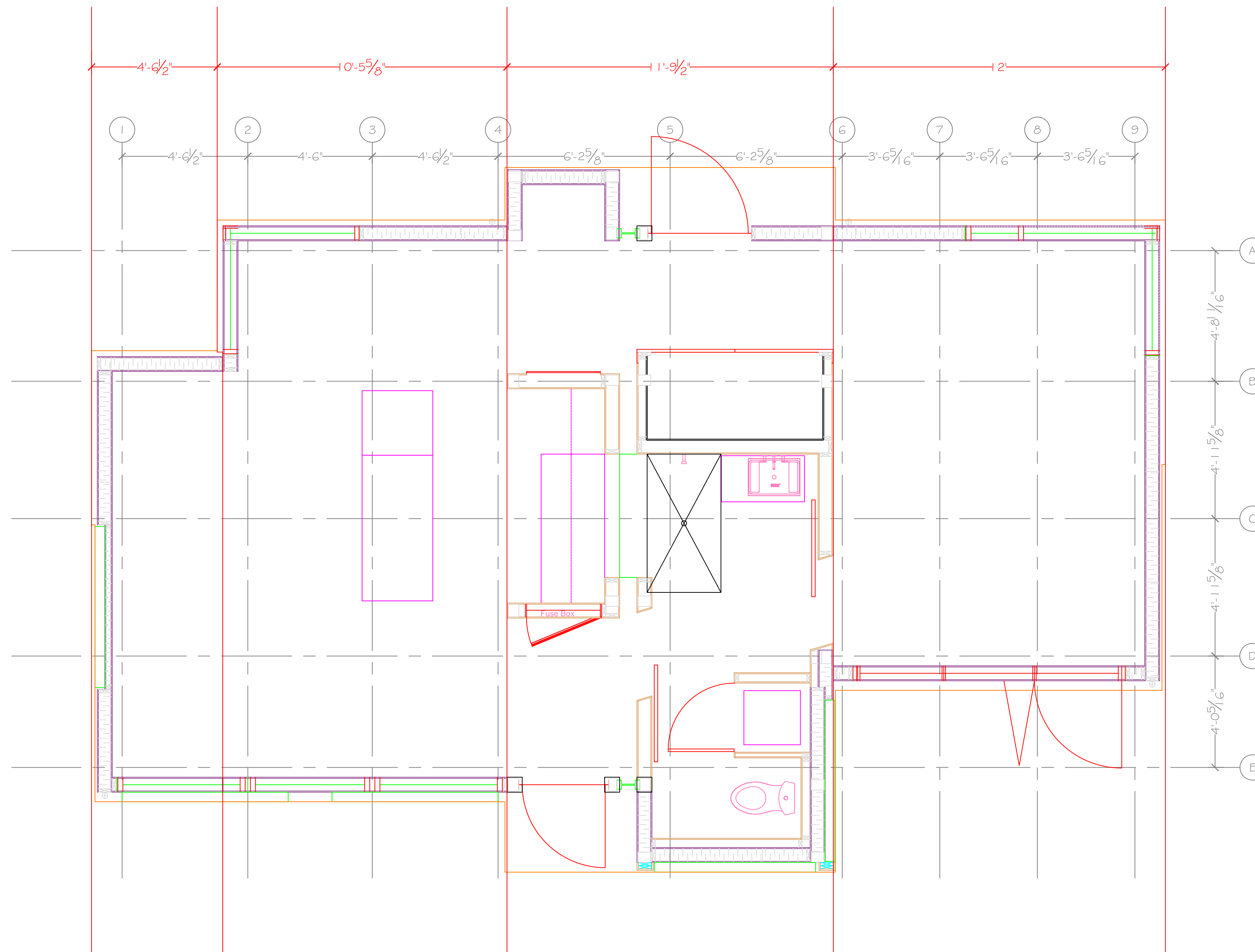
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DATE: 2009/05/30

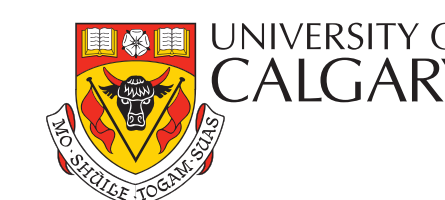
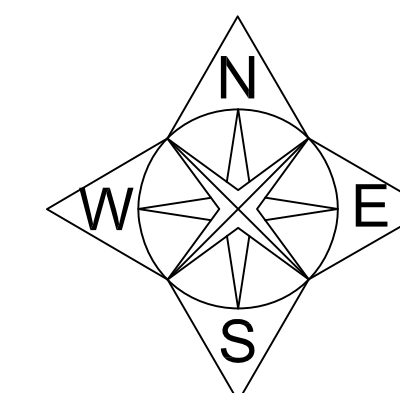
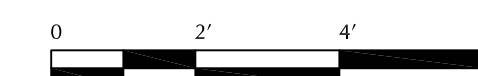
SCALE: 3/8" = 1' 0"

SHEET TITLE: FLOOR PLAN

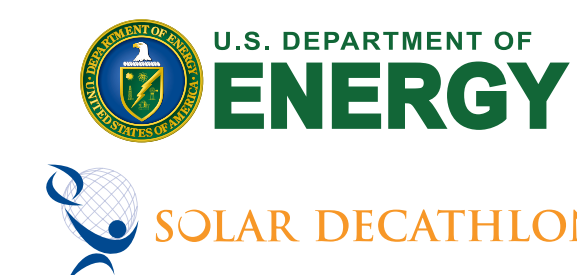
SHEET #: A-101



1
A-101 FLOOR PLAN
3/8" = 1' 0"

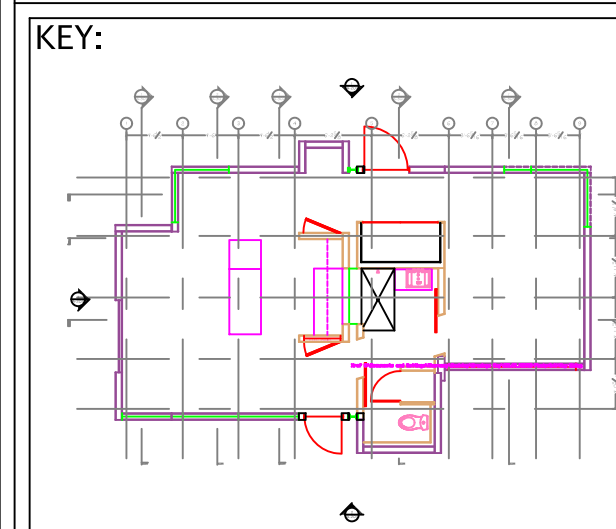


Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION



STAMP:

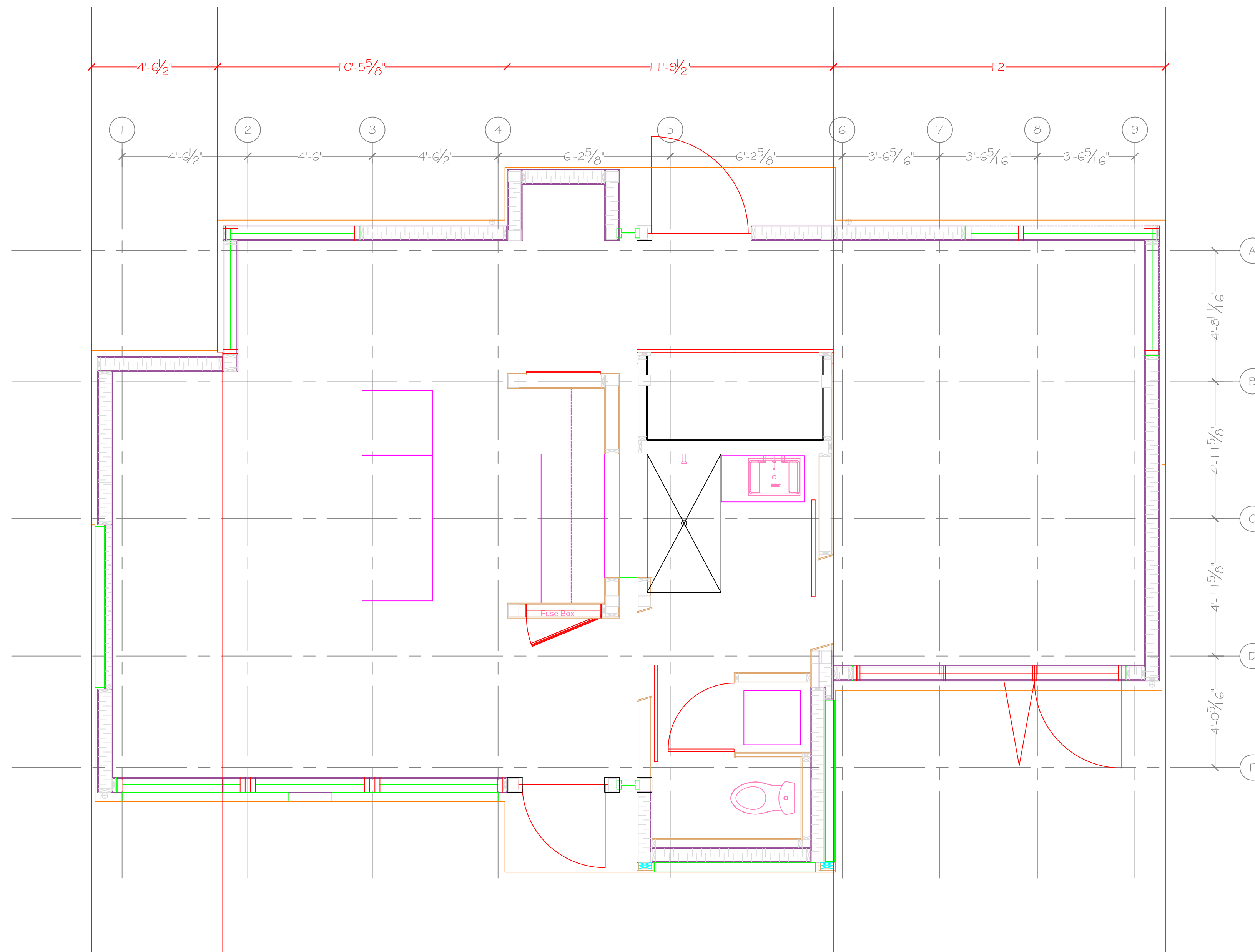
DRAWN: KM	CHECKED: TH
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DATE: 2009/05/28

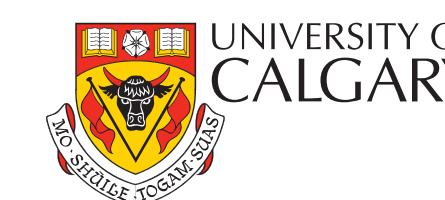
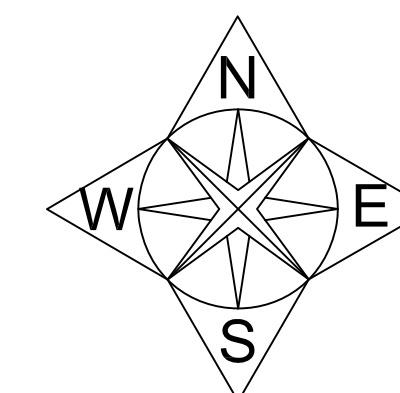
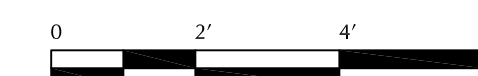
SCALE:
3/8" = 1' 0"

SHEET TITLE:
FLOOR PLAN

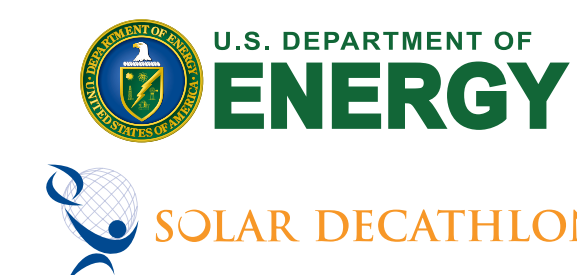
SHEET #:
A-101



1
A-101 FLOOR PLAN
3/8" = 1' 0"

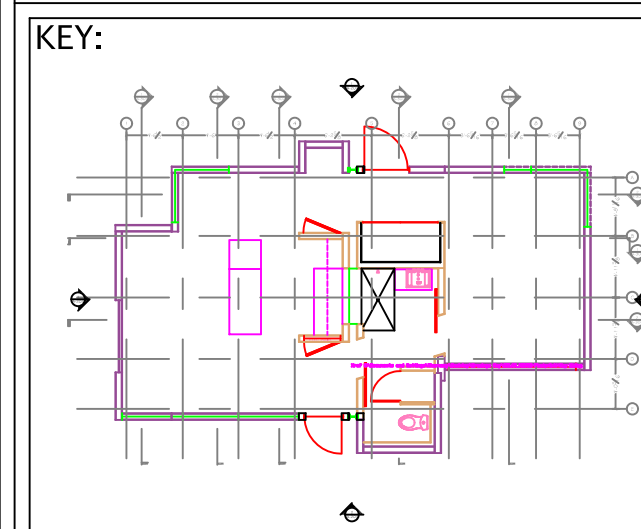


Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION



STAMP:

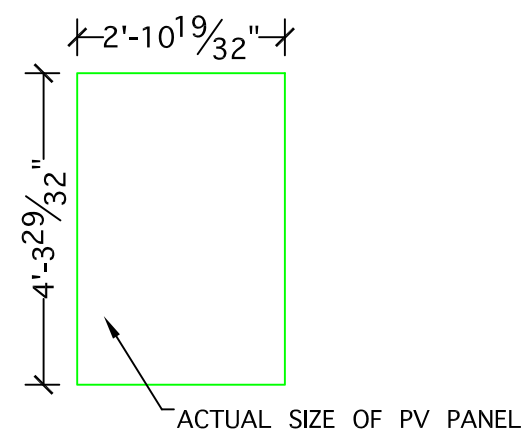
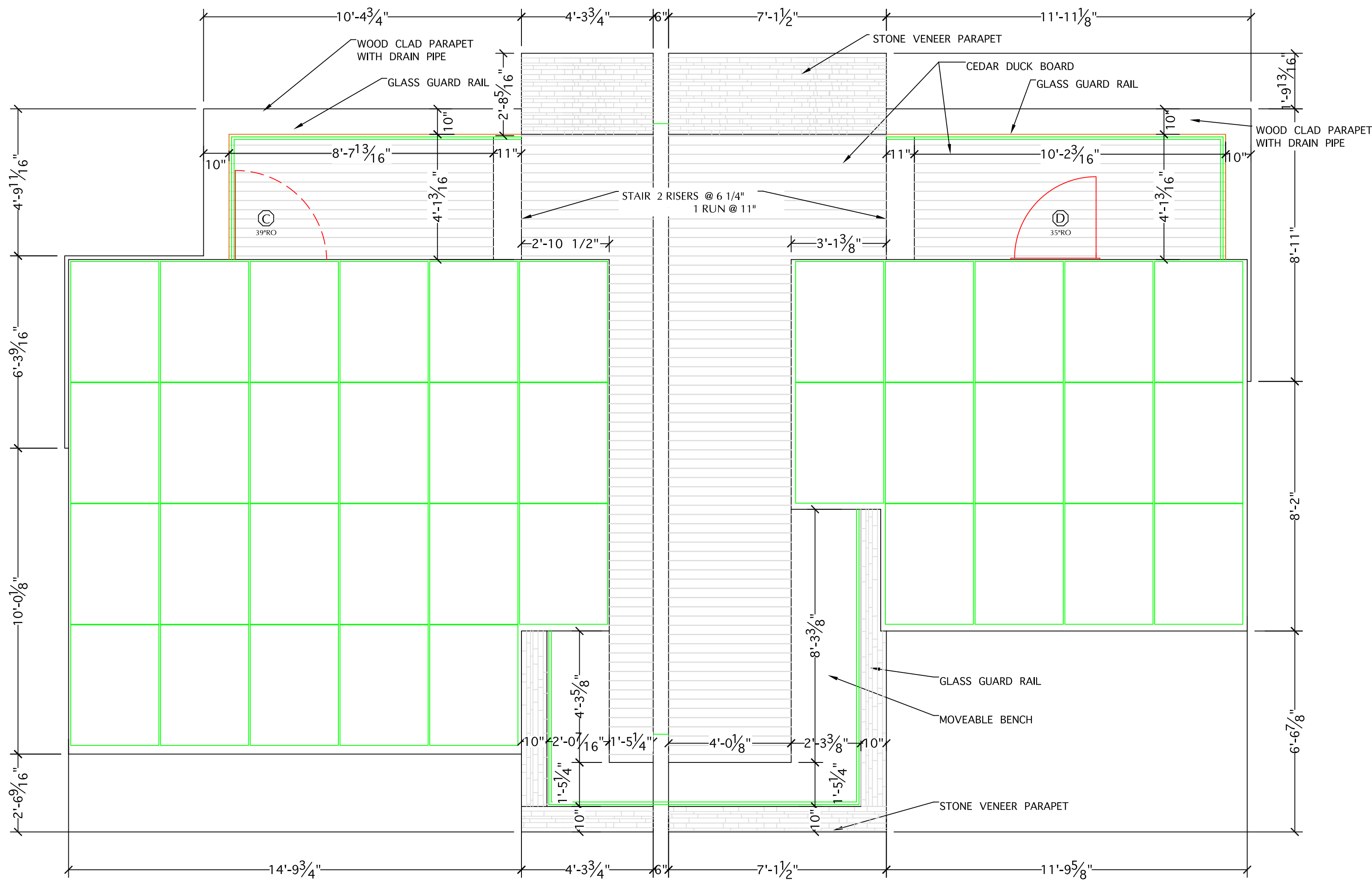
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DATE: 2009/05/28

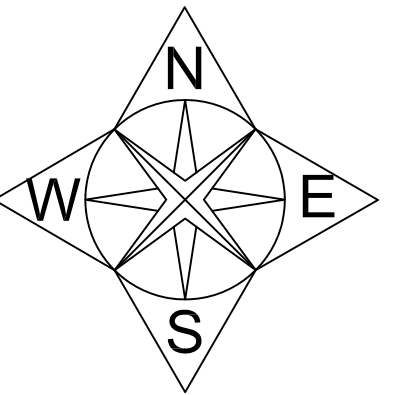
SCALE:
3/8" = 1' 0"

SHEET TITLE:
FLOOR PLAN

SHEET #:
A-101



NOTES:
SPACING BETWEEN PHOTOVOLTAIC
PANELS IS 5/8" EAST TO WEST AND
1/4" NORTH TO SOUTH



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Alberta Solar Decathlon Team

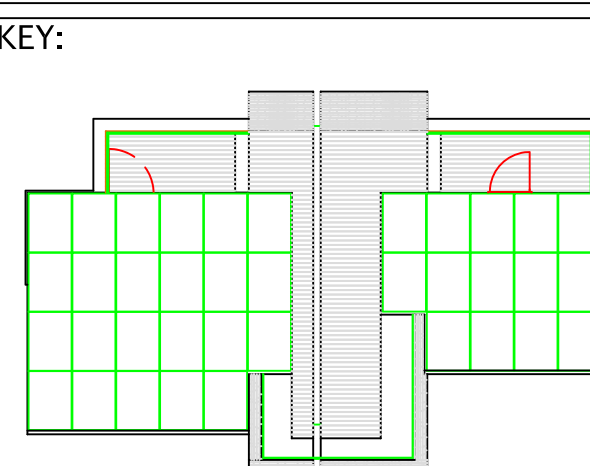
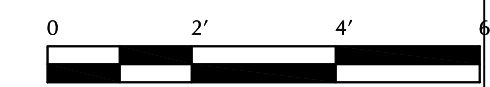
ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION

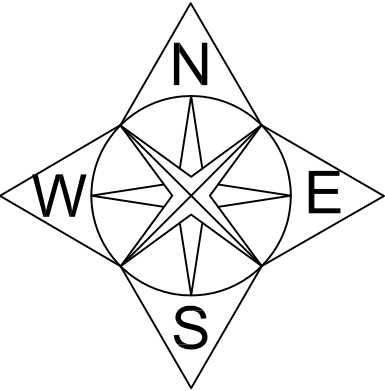
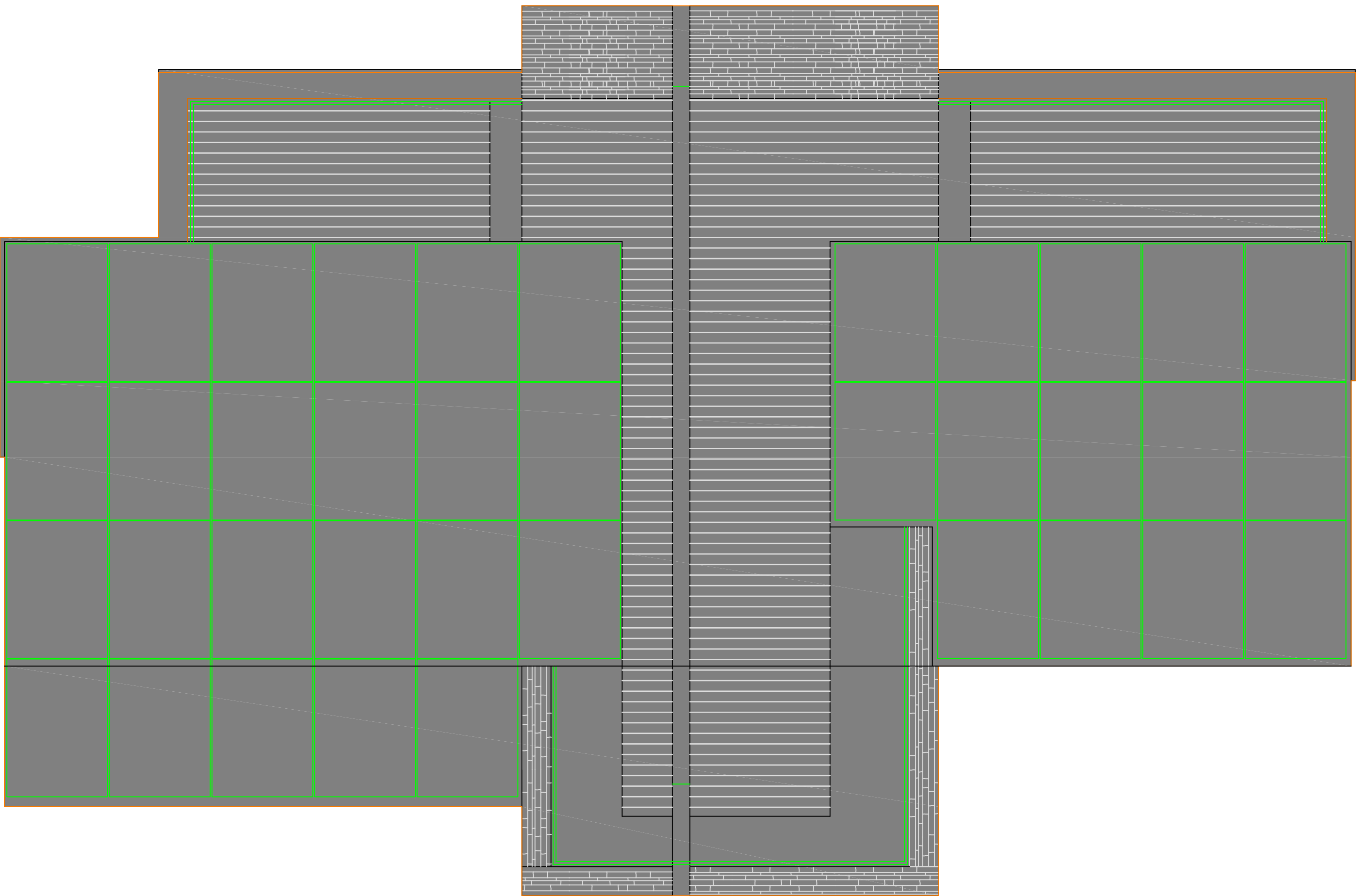
KEY:

STAMP:

DRAWN: KM	CHECKED: TH
DATE: 2009/05/30	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: ROOF PLAN	
SHEET #: A-103	



DRAWN: KM	CHECKED: TH
DATE: 2009/05/28	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: ROOF SLOPE PLAN	
SHEET #: A-104	




1
A-104

FOOTPRINT PLAN
3/8" = 1' 0"

NOTE:


THE TOTAL FOOTPRINT AS SHOWN BY THE SHADED AREA IS 799.065 SQ FT.


THIS IS COMPLIANT WITH THE SOLAR DECATHLON RULES AND REGULATIONS 6.2 OF 800 SQ FT. MAX.




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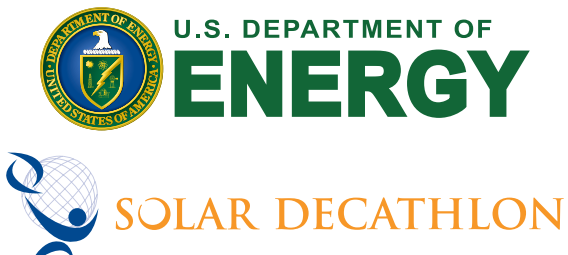
ACAD







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ISSUED DATES

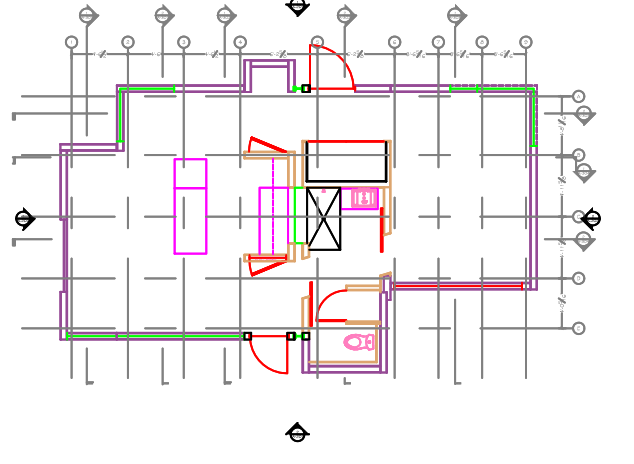
DATE: DESCRIPTION

2009/06/02 CONSTRUCTION SET

REVISIONS

DATE: DESCRIPTION

KEY:



STAMP:

DRAWN: KM

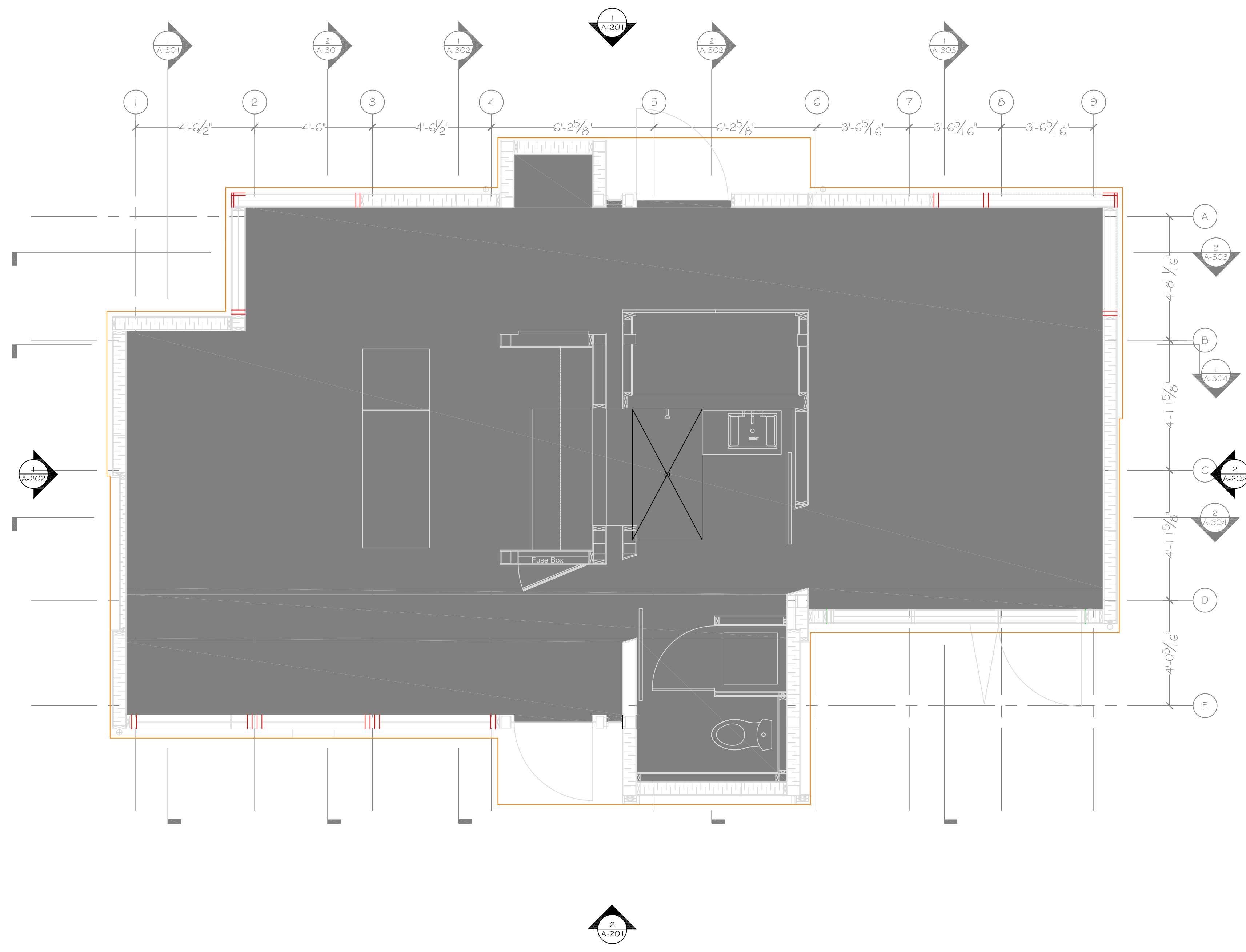
CHECKED: TH

DATE: 2009/05/27

SCALE: 3/8" = 1' 0"

SHEET TITLE: FOOTPRINT PLAN

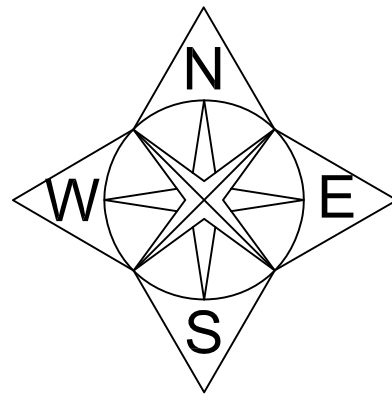
SHEET #: A-104



1
A-106

CONDITIONED SPACE PLAN

3/8" = 1' 0"



NOTES:

THE TOTAL FOOTPRINT AS SHOWN BY THE SHADED AREA IS 673.70 SQ. FT.

THIS IS COMPLIANT WITH THE SOLAR DECATHLON RULES AND REGULATIONS 6.3 OF 450 SQ. FT. MIN.



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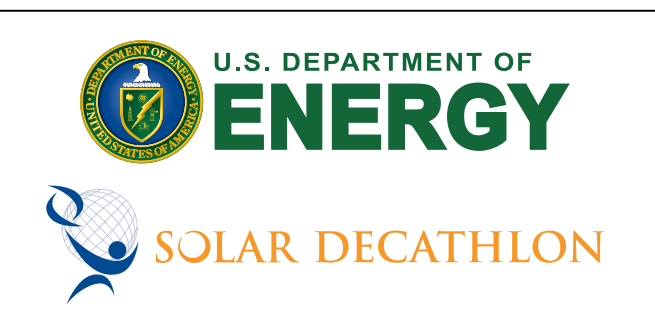
ACAD

MOUNT ROYAL COLLEGE

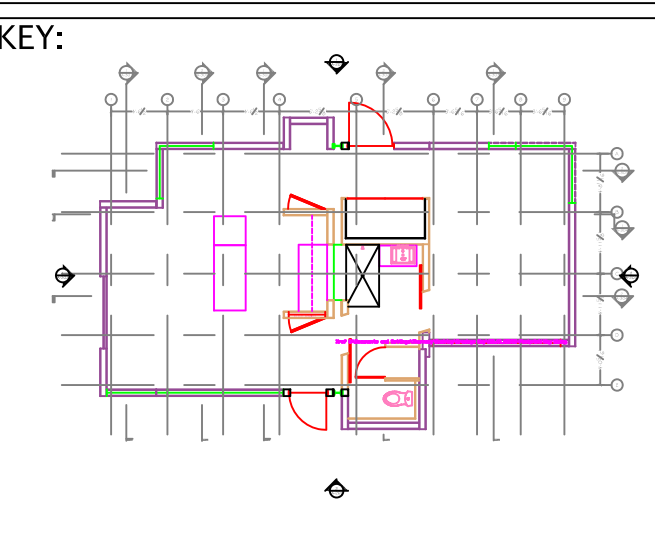
Jait POLYTECHNIC

UNIVERSITY OF CALGARY

Alberta Solar Decathlon Team

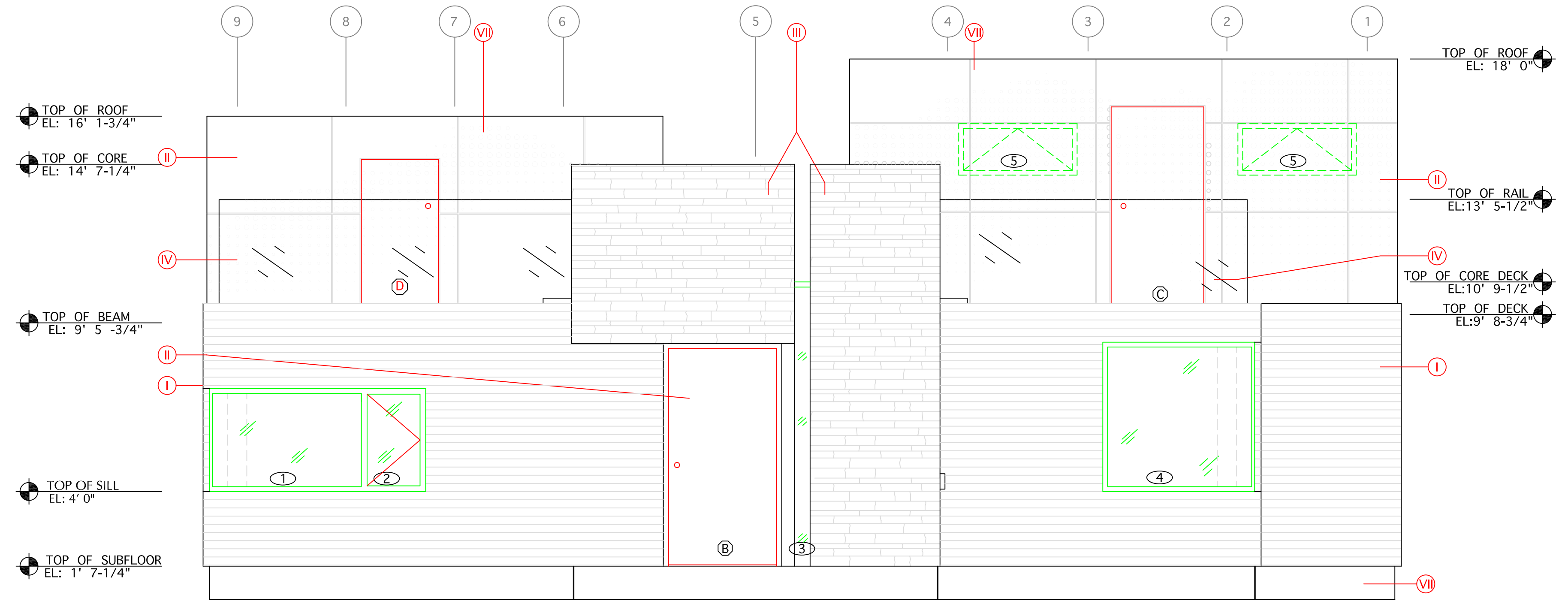


ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

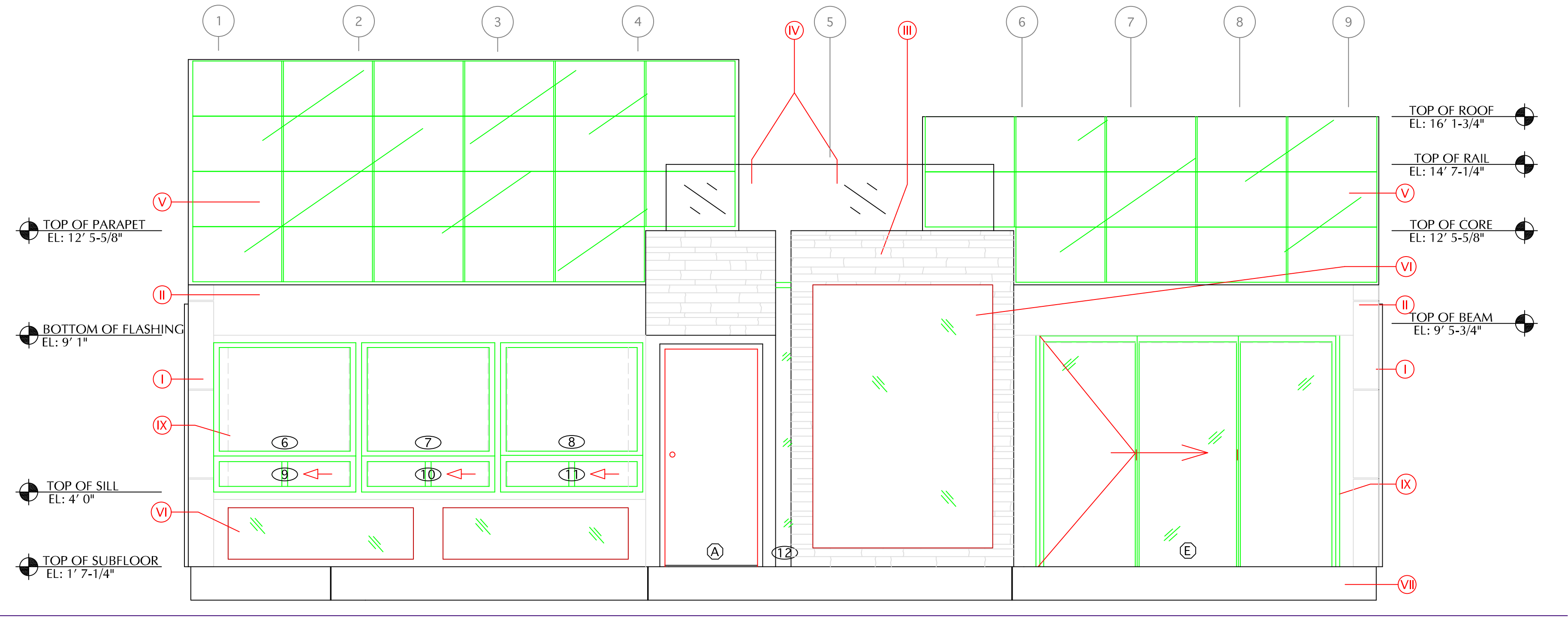


STAMP:

DRAWN:	CHECKED: TH
DATE:	
SCALE:	
SHEET TITLE:	
SHEET #:	



1 NORTH ELEVATION
A-201/3/8" = 1' 0"



2 SOUTH ELEVATION
A-201/3/8" = 1' 0"



- LEGEND:
- I — BARN WOOD
 - II — COR TEN
 - III — STONE VENEER
 - IV — GLASS RAILING
 - V — PV PANELS
 - VI — SOLAR THERMAL
 - VII — FACIA/FLASHING
 - VIII — METER HOUSING
 - IX — NYSAN BLINDS

ALBERTA COLLEGE OF ART + DESIGN

ALBERTA Solar Decathlon Team

MOUNT ROYAL COLLEGE

Jait POLYTECHNIC

UNIVERSITY OF CALGARY

U.S. DEPARTMENT OF ENERGY

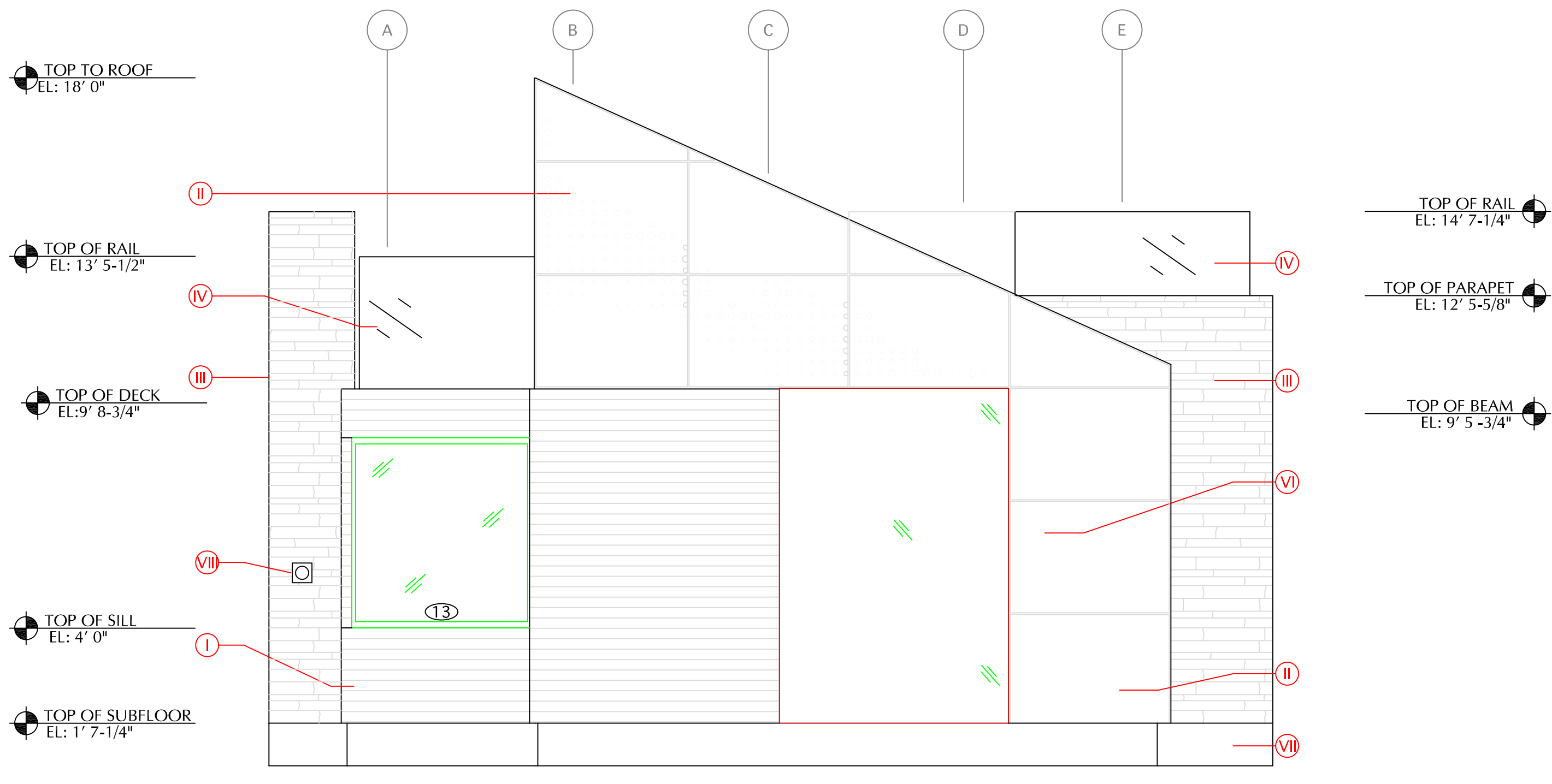
SOLAR DECATHLON

ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

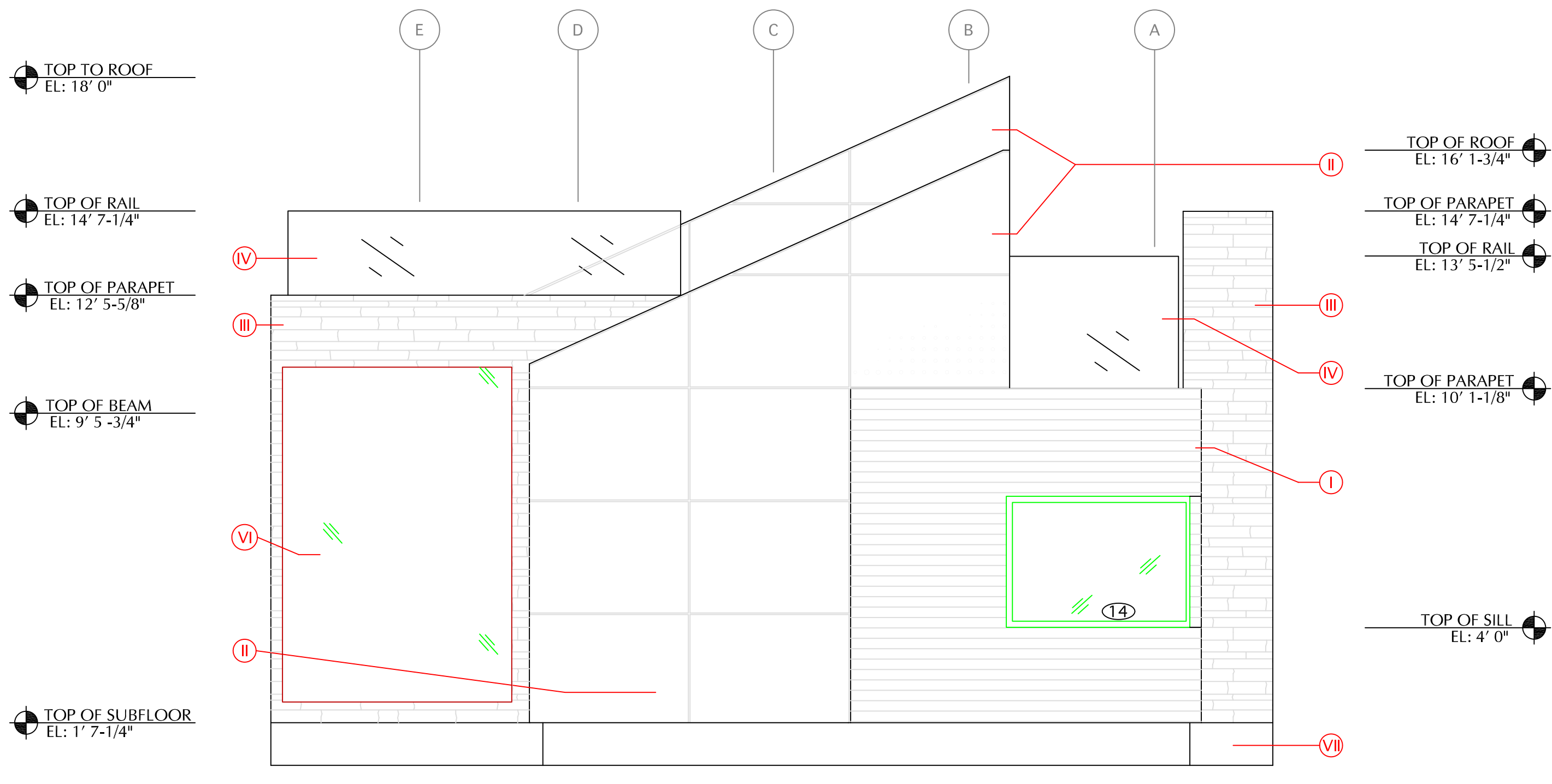
KEY:

STAMP:

DRAWN: KM	CHECKED: TH
DATE: 2009/05/24	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: NORTH & SOUTH ELEVATION	
SHEET #: A-201	



1 WEST ELEVATION
A-202/3/8" = 1' 0"



2 EAST ELEVATION
A-202/3/8" = 1' 0"

LEGEND:

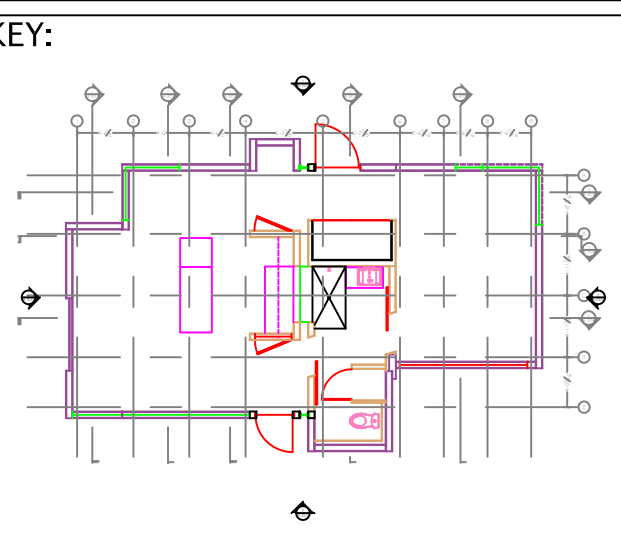
- I — BARN WOOD
- II — COR TEN
- III — STONE VENEER
- IV — GLASS RAILING
- V — PV PANELS
- VI — SOLAR THERMAL
- VII — FACIA/FLASHING
- VIII — METER HOUSING
- IX — NYSAN BLINDS



Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



STAMP:

DRAWN: KM CHECKED: TH

DATE: 2009/05/24

SCALE: 3/8" = 1' 0"

SHEET TITLE: EAST & WEST ELEVATION

SHEET #: A-202



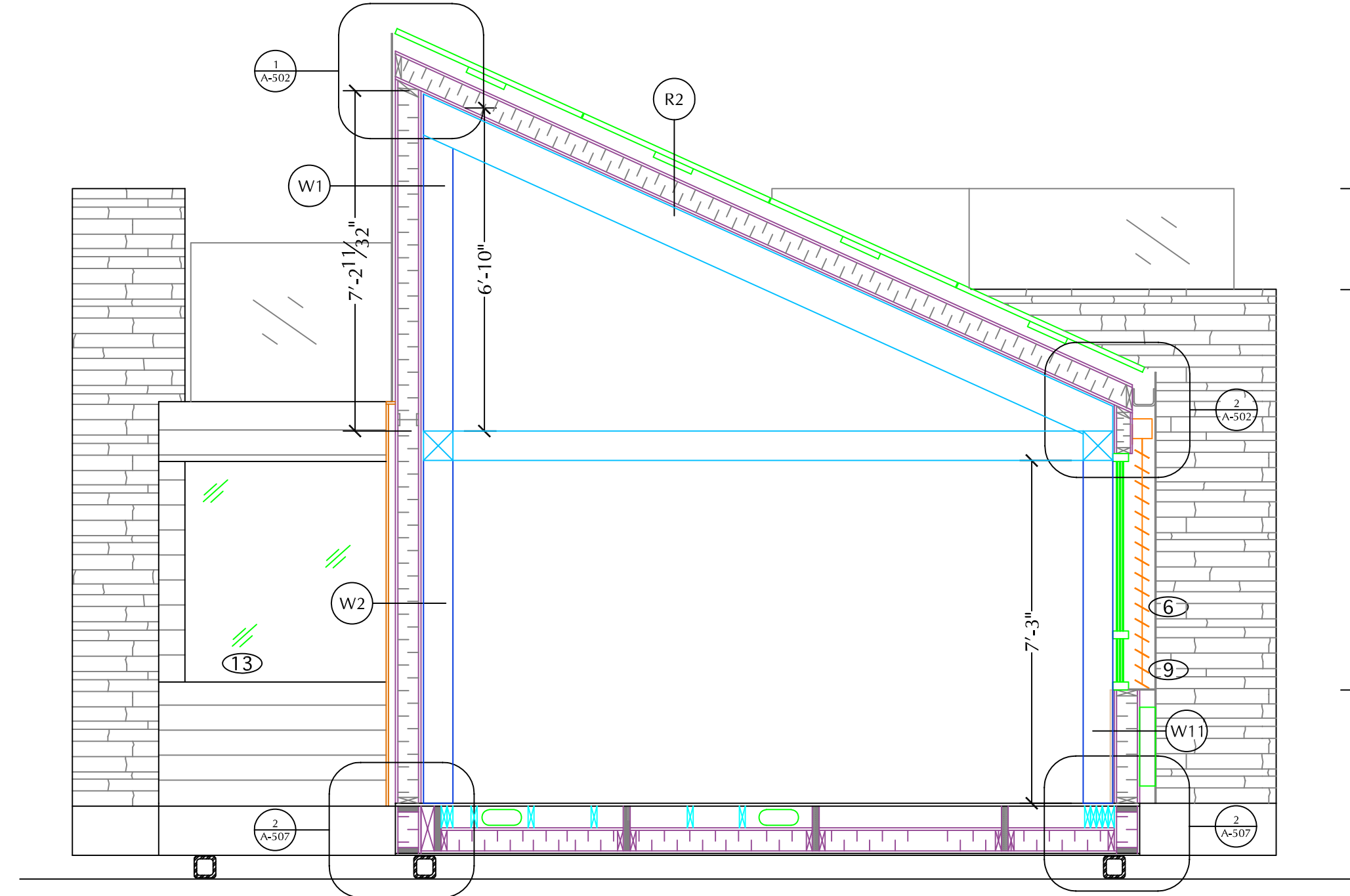
TOP OF ROOF
EL: 18' 0"

TOP OF PARAPET
EL: 14' 7-1/4"

TOP OF RAIL
EL: 13' 5-1/2"

TOP OF PARAPET
EL: 10' 1-1/4"

TOP OF SUBFLOOR
EL: 1' 7-1/4"



TOP OF RAIL
EL: 14' 7-1/4"

TOP OF PARAPET
EL: 12' 5-5/8"

TOP OF SILL
EL: 4' 0"

1 SECTION 1
3/8" = 1' 0"

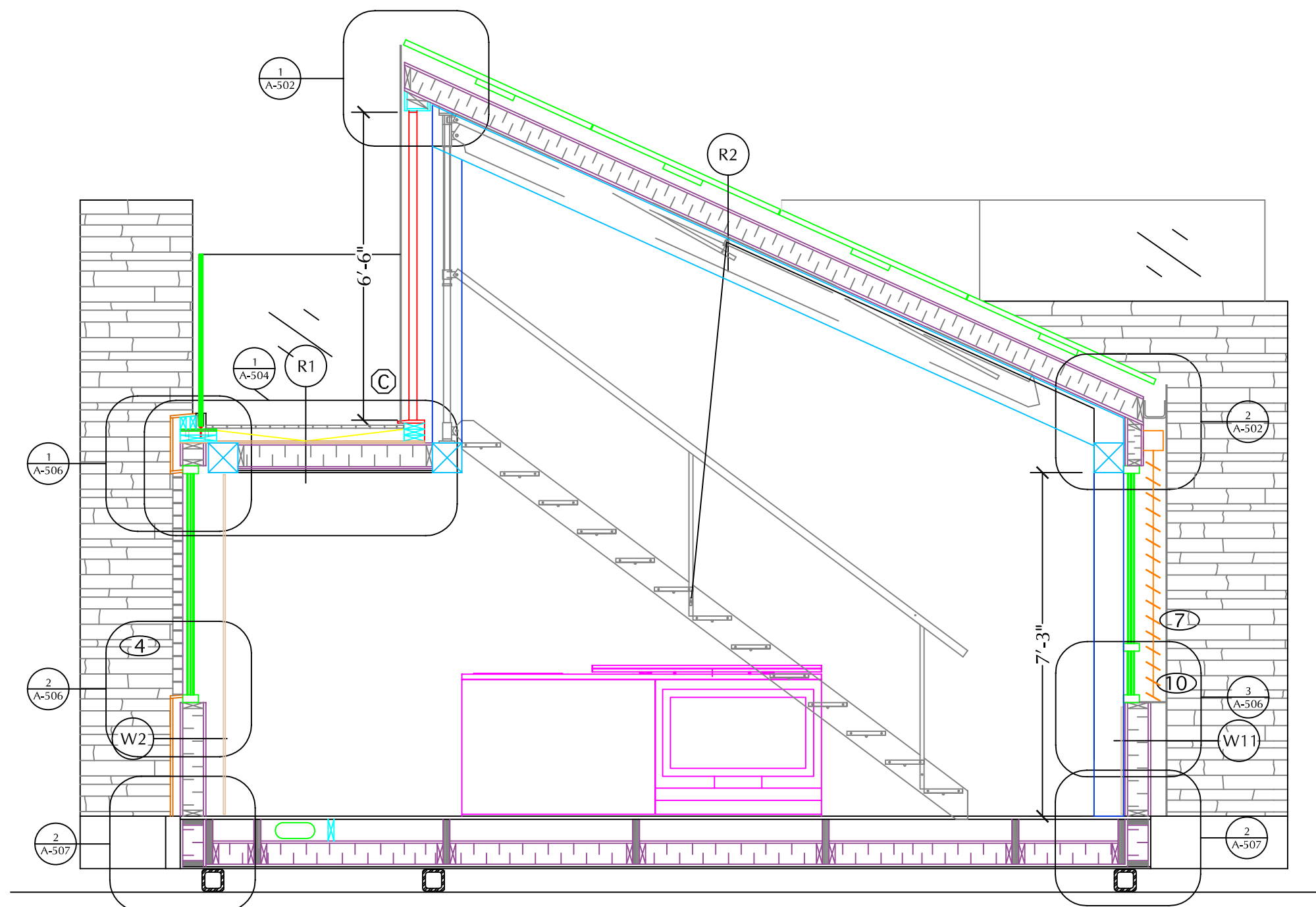
TOP OF ROOF
EL: 18' 0"

TOP OF PARAPET
EL: 14' 7-1/4"

TOP OF RAIL
EL: 13' 5-1/2"

TOP OF PARAPET
EL: 10' 1-1/4"

TOP OF SUBFLOOR
EL: 1' 7-1/4"



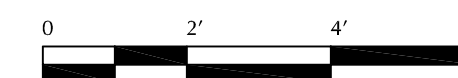
TOP OF RAIL
EL: 14' 7-1/4"

TOP OF CORE
EL: 12' 5-5/8"

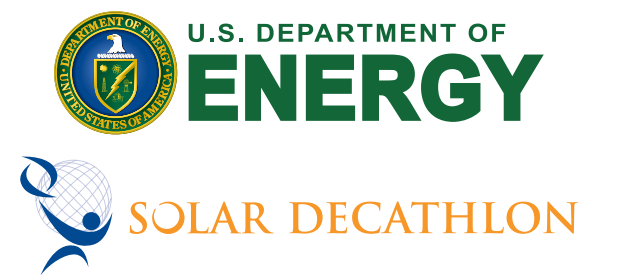
TOP OF BEAM
EL: 9' 5-3/4"

TOP OF SILL
EL: 4' 0"

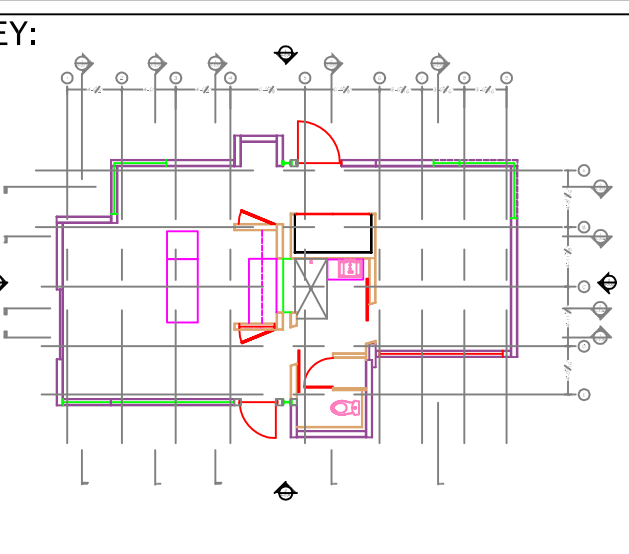
2 SECTION 2
3/8" = 1' 0"



Alberta Solar Decathlon Team

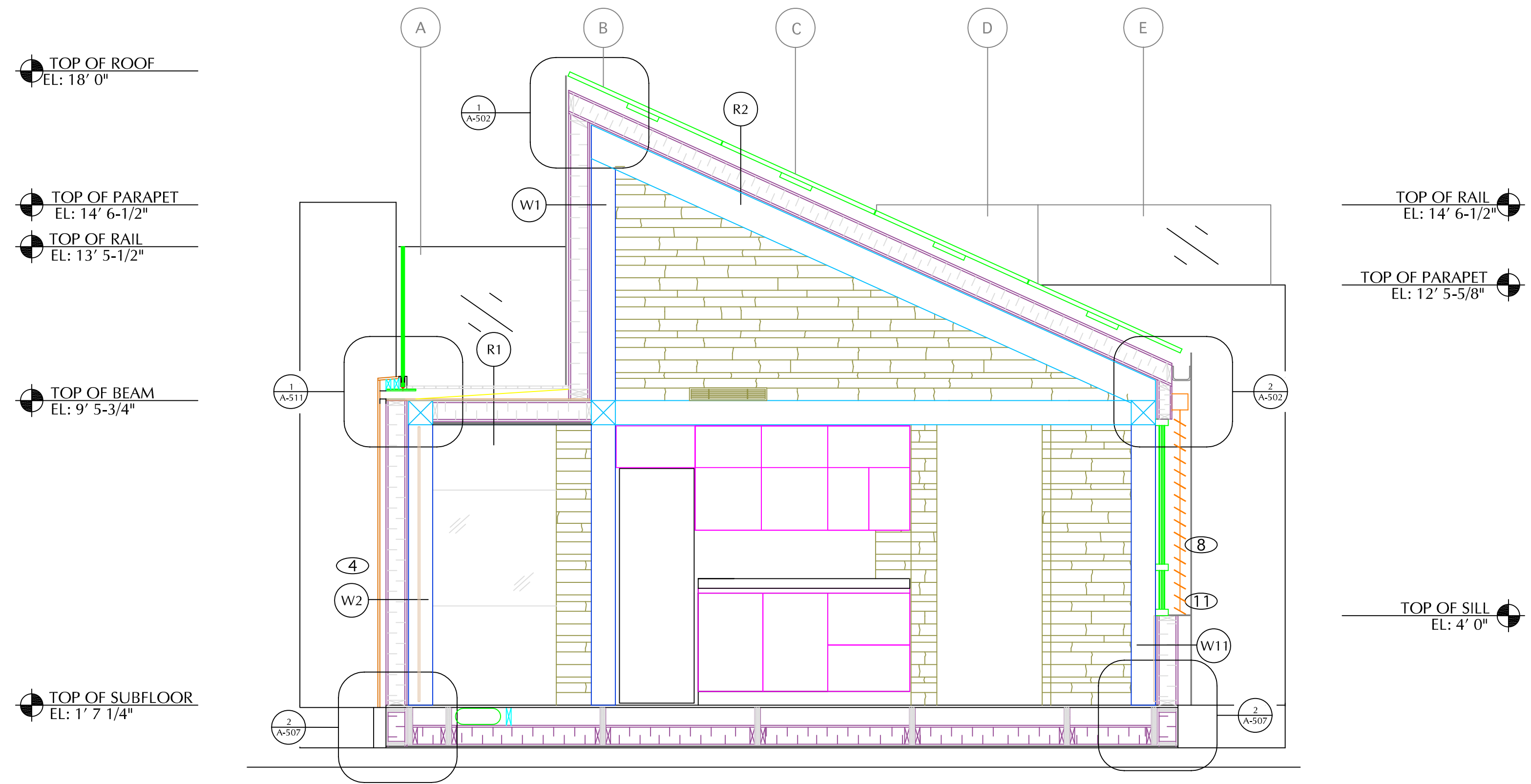


ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

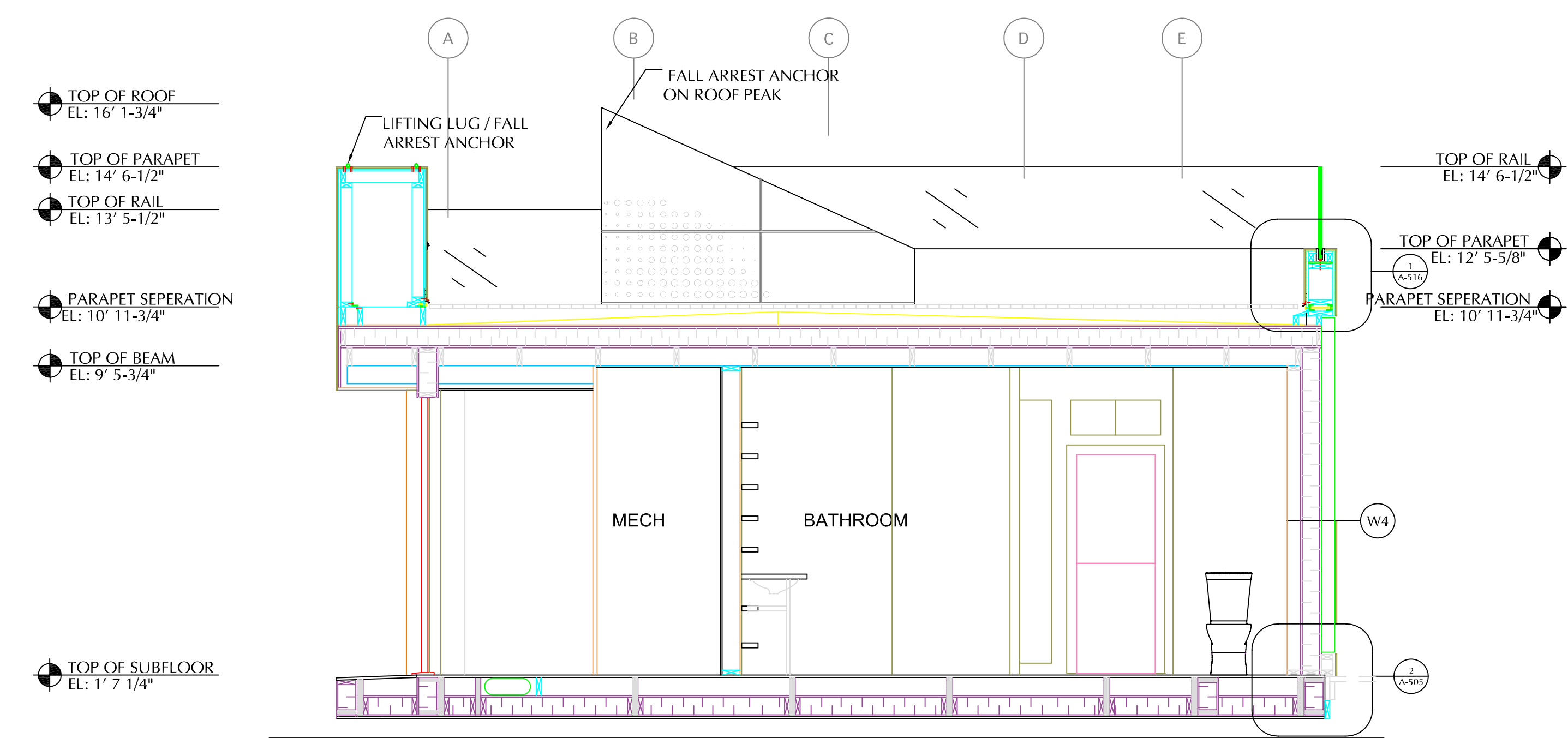


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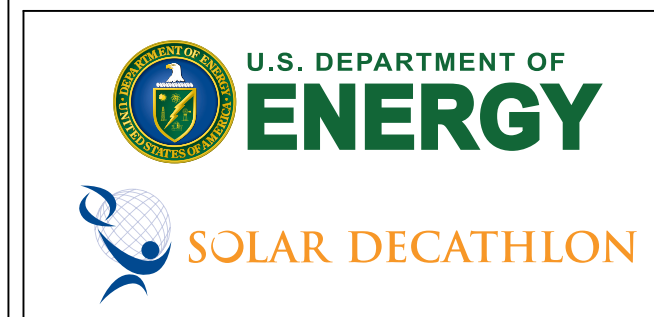
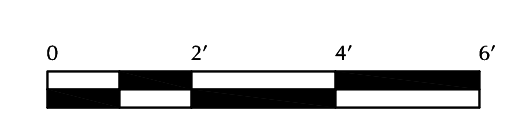
DRAWN: TH	CHECKED: KM
DATE: 2009/06/01	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: SECTION 1 & 2	
SHEET #: A-301	



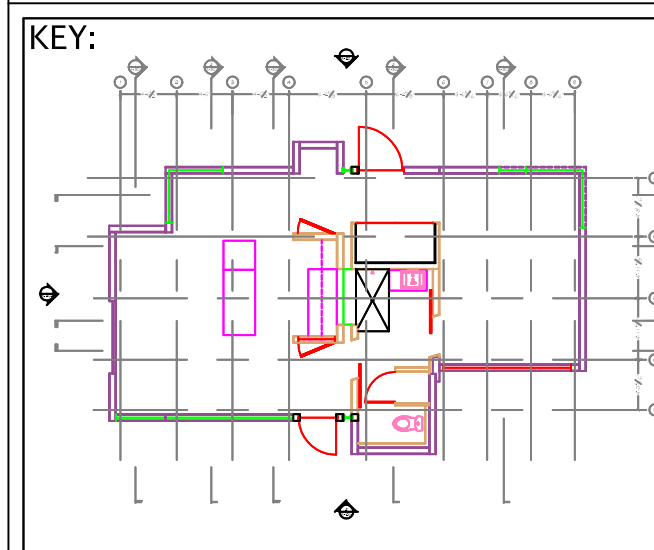
1
A-302 KITCHEN2 SECTION
3/8" = 1' 0"



2
A-302 CORE SECTION
3/8" = 1' 0"

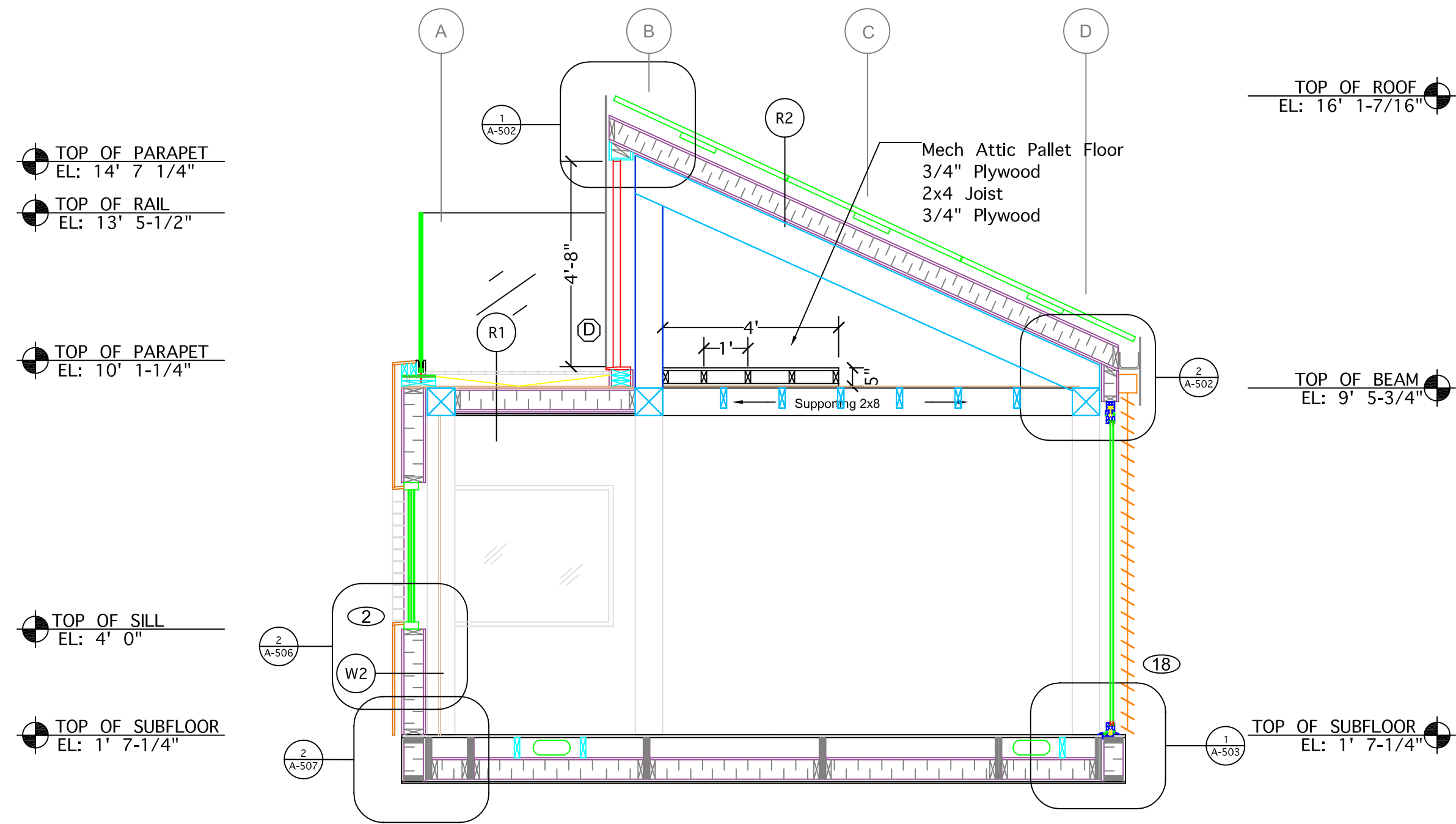


ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

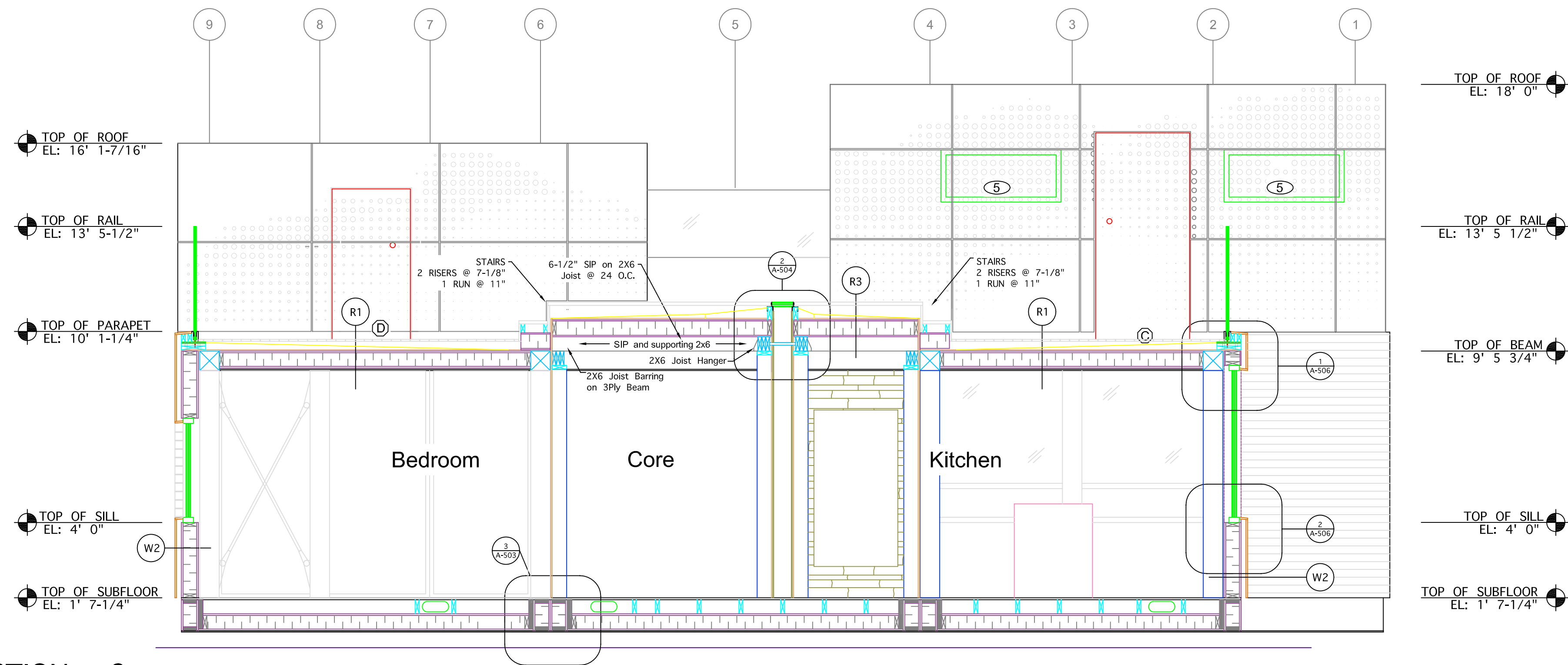


STAMP:

DRAWN: TH	CHECKED: KM
DATE: 2009/05/30	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: KITHCEN2/CORE SECTIONS	
SHEET #: A-302	



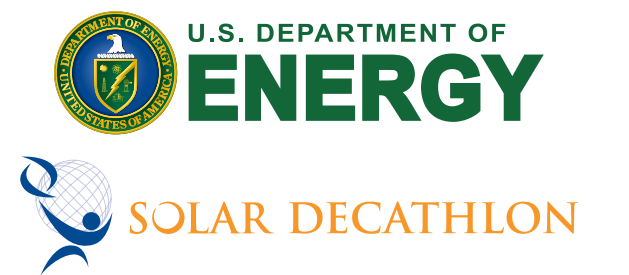
1 SECTION 5
A-303 3/8" = 1' 0"



2 SECTION 6
A-303 3/8" = 1' 0"

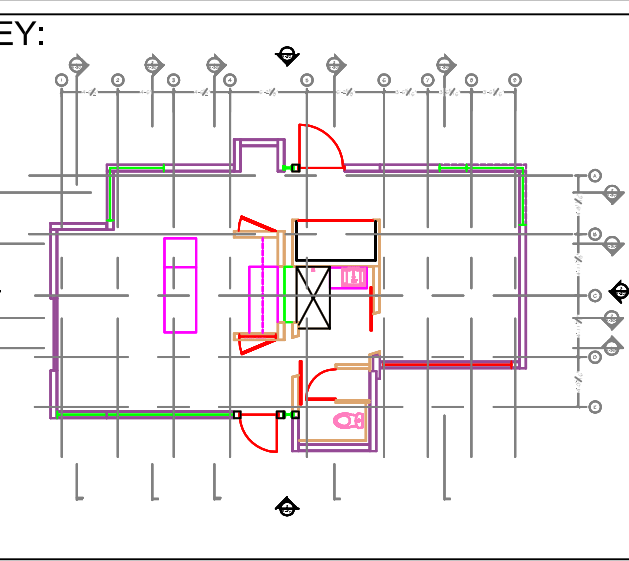


Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION



STAMP:

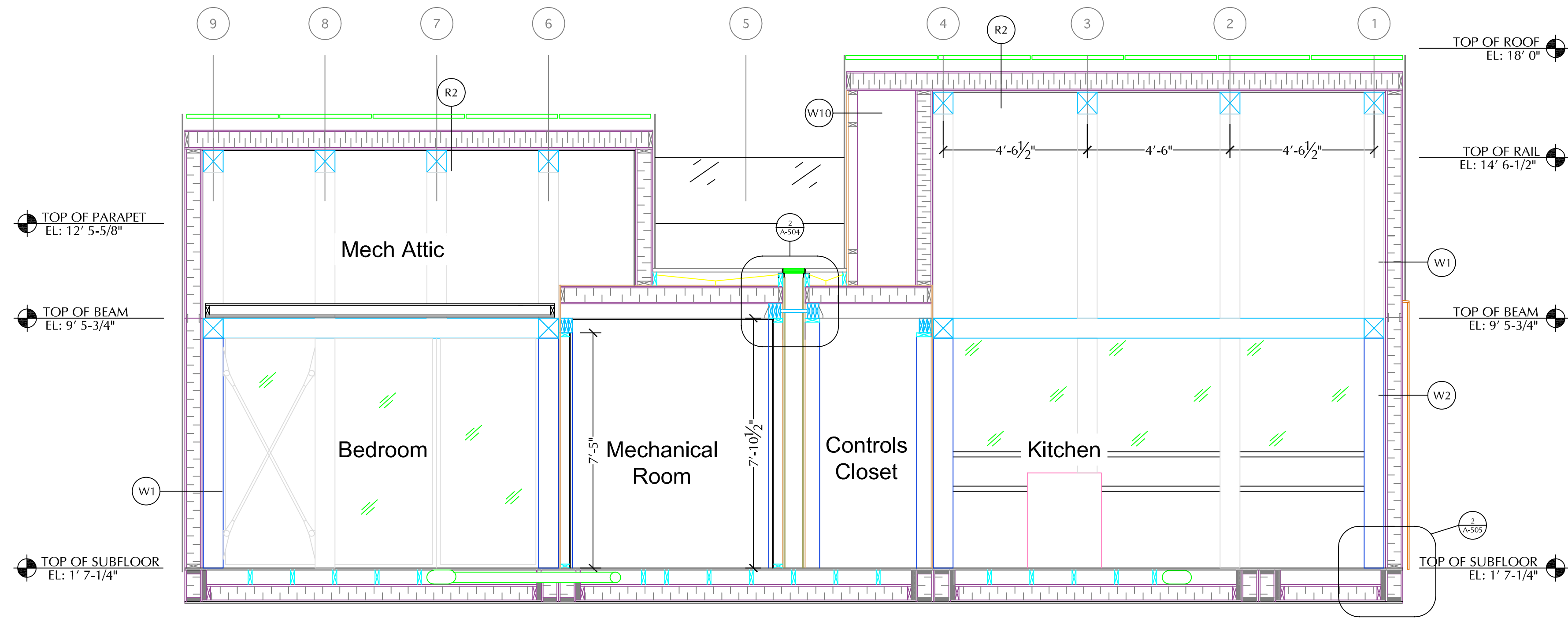
DRAWN:	CHECKED:
KM	TH

DATE: 2009/06/01

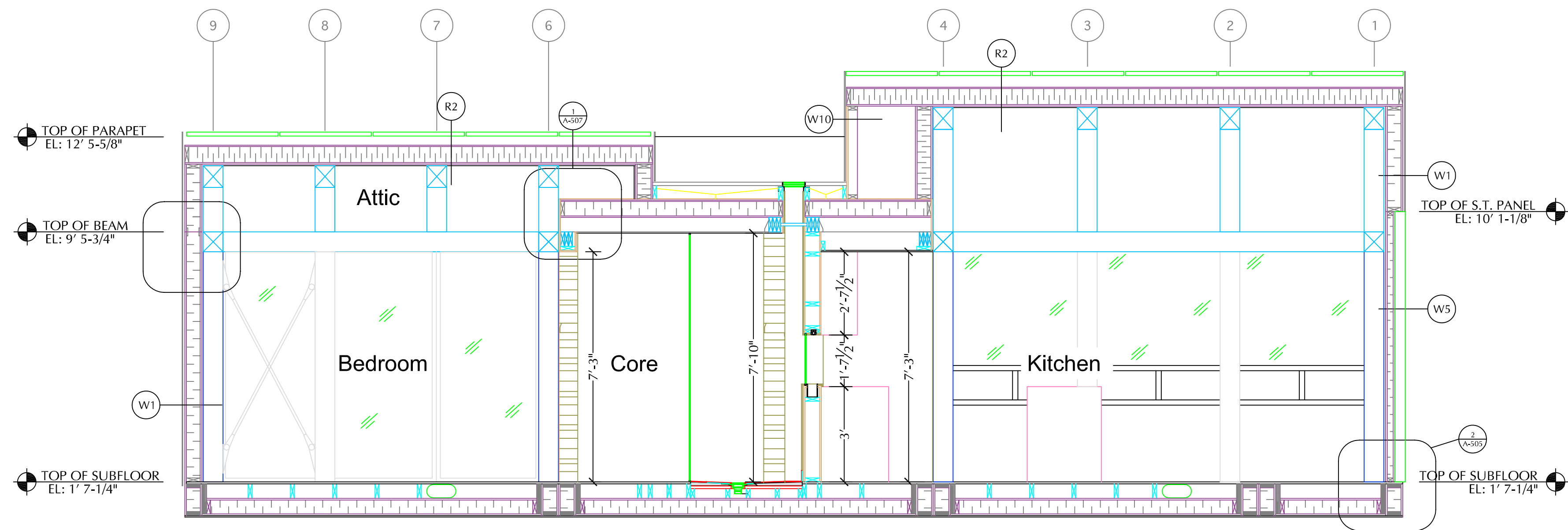
SCALE:
3/8" = 1' 0"

SHEET TITLE:
SECTION 5 & 6

SHEET #:
A-303



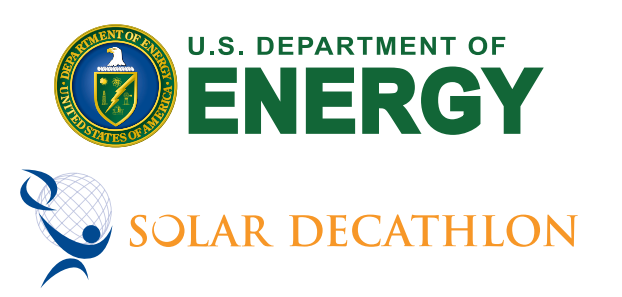
1
A-304 SECTION 7
3/8" = 1' 0"



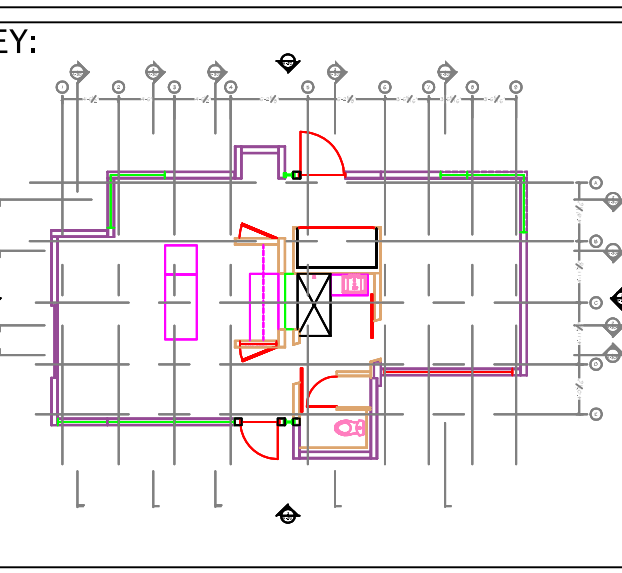
2
A-304 SECTION 8
3/8" = 1' 0"



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ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



STAMP:

DRAWN: KM CHECKED: TH

DATE: 2009/05/30

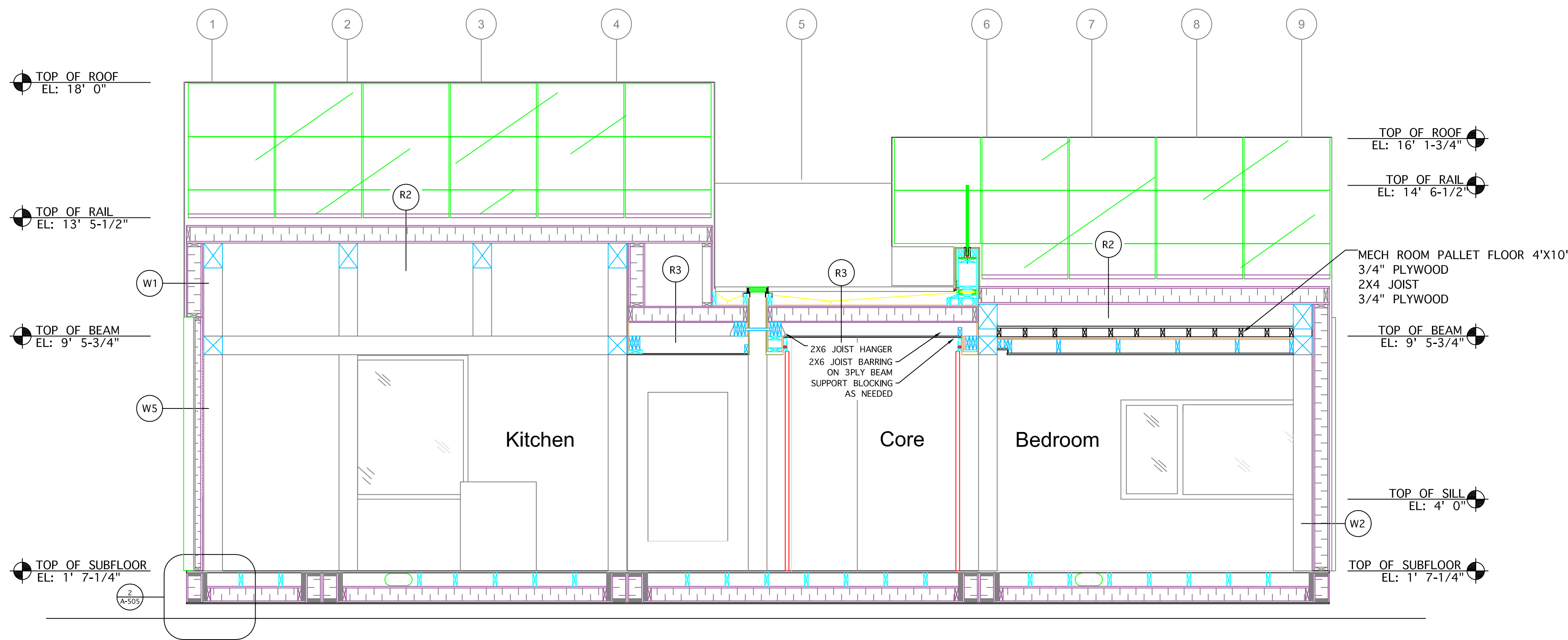
SCALE: 3/8" = 1' 0"

SHEET TITLE:

SECTION 7 & 8

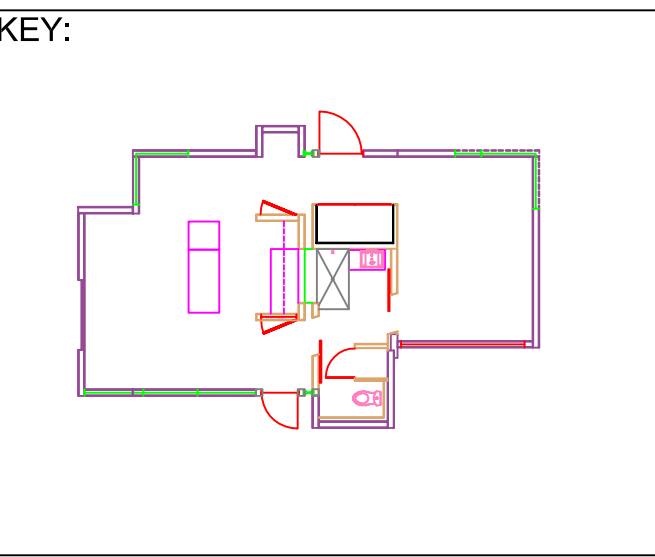
SHEET #:

A-304



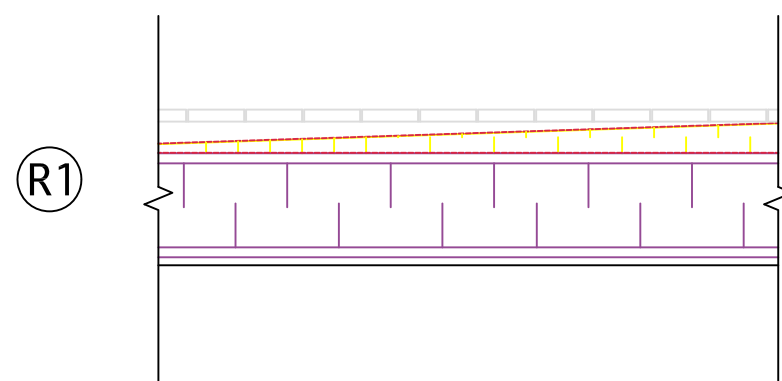
1 SECTION 305
A-305 3/8" = 1' 0"

ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION



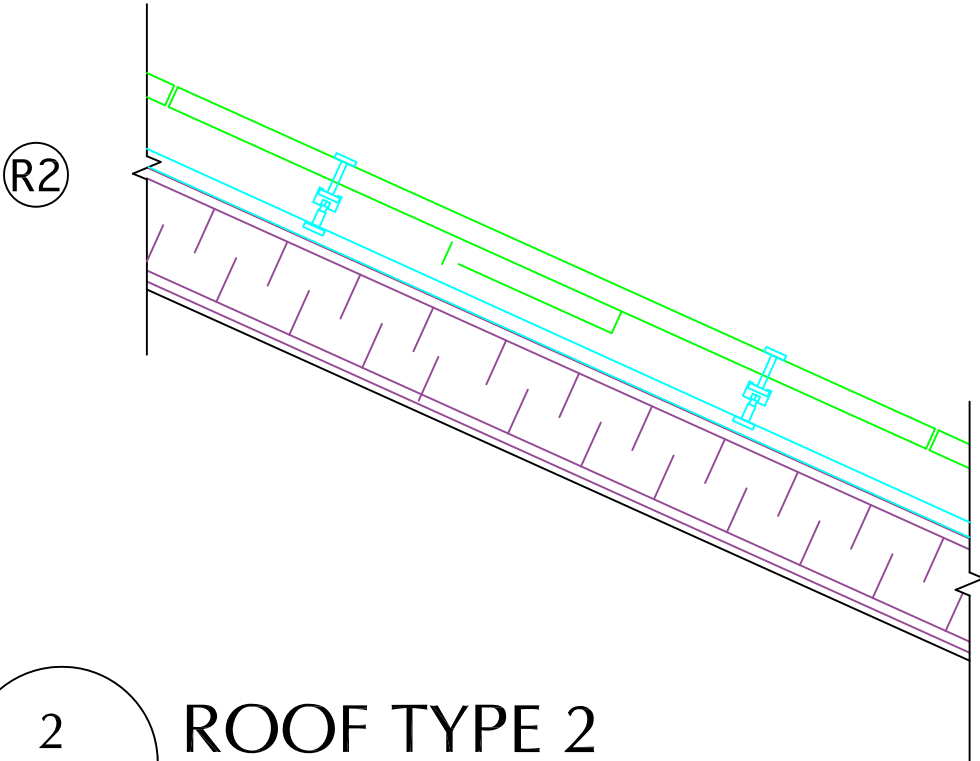
STAMP:

DRAWN: THARMESYNN	CHECKED: THARMESYNN
DATE: 2009/05/01	
SCALE: 3/8" - 1'0"	
SHEET TITLE: SEC - 305	
SHEET #: A-305	



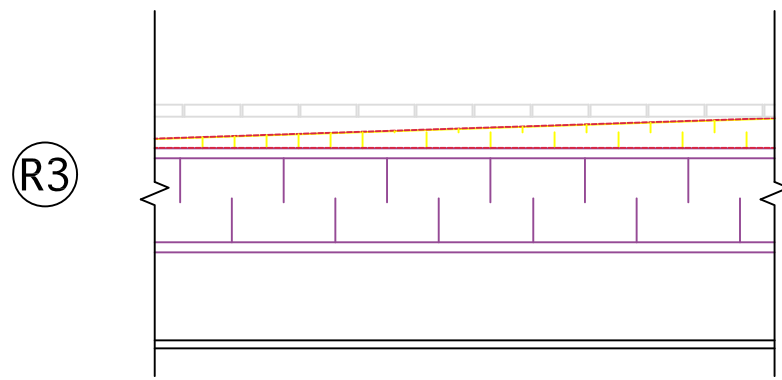
- R1-PATIO DECKING**
-1-1/2" CEDAR DECK BOARD
-2" SLEEPERS RUNNING TO DRAIN @ 16"O.C.
-CONTINUOUS ROOFING MEMBRANE (TPO) FULLY ADHERED
-TAPERED POLYISO INSULATION
-1/2" PLYWOOD SHEATHING
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-1/2" GYPSUM BOARD

1
A-501
ROOF TYPE 1
1" = 1' 0"



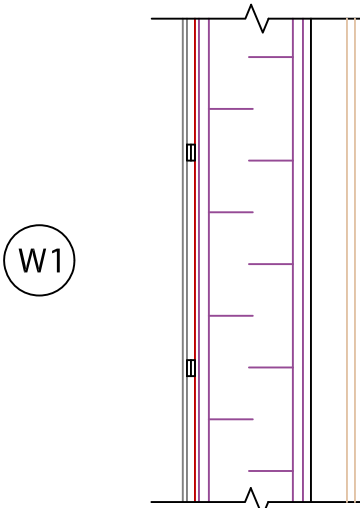
- R2-PHOTOVOLTAIC ROOF**
-PV PANEL
-4" AIR SPACE
-PV MOUNTING SYSTEM
-CONTINUOUS ROOFING MEMBRANE (TPO) MECHANICALLY FASTENED
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-1/2" GYPSUM BOARD

2
A-501
ROOF TYPE 2
1" = 1' 0"



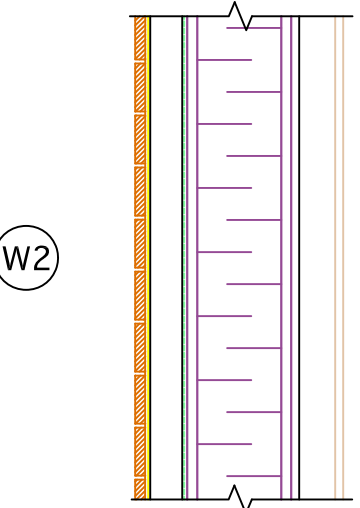
- R3-CORE PATIO DECKING**
-1-1/2" CEDAR DECK BOARD
-2" SLEEPERS RUNNING TO DRAIN @ 16"O.C.
-CONTINUOUS ROOFING MEMBRANE (TPO) FULLY ADHERED
-TAPERED POLYISO INSULATION
-1/2" PLYWOOD SHEATHING
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-2X6 JOIST @ 16"O.C.
-1/2" GYPSUM BOARD

3
A-501
ROOF TYPE 3
1" = 1' 0"



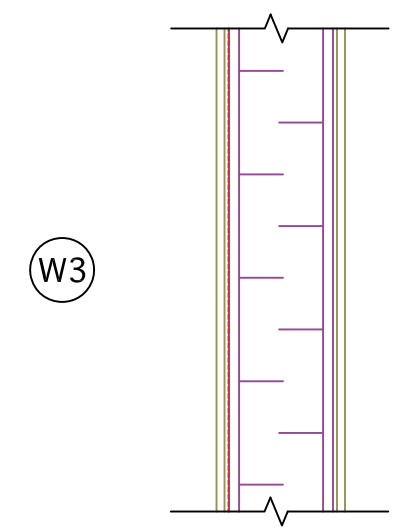
- W1-METAL CLAD SIP**
-18ga METAL CLADDING RAW FINISHED SHEET STEEL
- FASTMOUNT CLIPS @ 24"O.C.
-1/2" VERTICAL PLYWOOD STRAPPING @24"O.C.
-2 PLY 30 MIN BUILDING PAPER M.B.
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-1/2" GYPSUM BOARD
-3-1/2" DIRT WALL

4
A-501
WALL TYPE 1
1" = 1' 0"



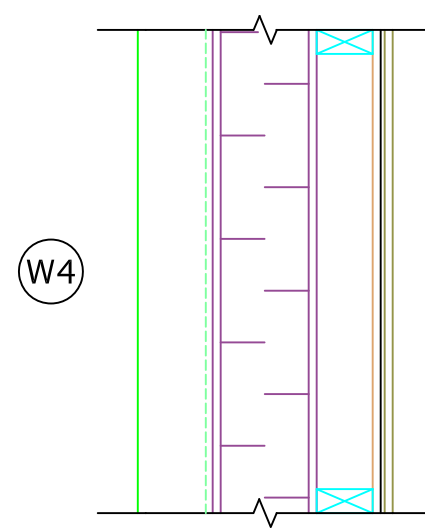
- W2-WOOD CLAD SIP**
-5/8" WOOD CLADDING
-BUG SCREEN
-2-5/8" VERTICAL GALVANIZED STEEL Z-GIRT @ 24"O.
-2 PLY 30 MIN BUILDING PAPER M.B.
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-1/2" GYPSUM BOARD
-3-1/2" DIRT WALL

5
A-501
WALL TYPE 2
1" = 1' 0"



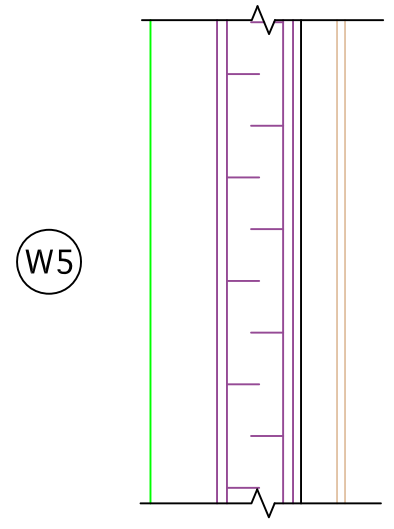
- W3-EXTERIOR STONE CORE WALL**
-1/2" STONE VENEER
-1/4" MORTAR
-WOVEN WIRE MESH
-2 PLY 30 MIN BUILDING PAPER M.B.
-6-1/2" STRUCTURAL INSULATED PANEL(SIP)
-1/4" TILE ADHESIVE
-1/2" STONE VENEER

6
A-501
WALL TYPE 3
1" = 1' 0"



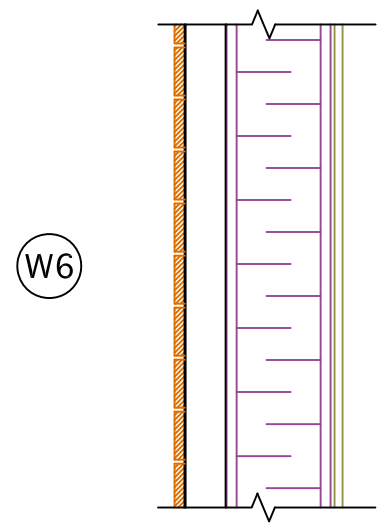
- W4-SOLAR THERMAL (CORE)**
-SOLAR THERMAL PANEL
-2 PLY 30 MIN BUILDING PAPER M.B.
-6-1/2" STRUCTURAL INSULATED PANEL(SIP)
-2X4 FURRING WALL @ 16"O.C.
-1/2" PLYWOOD
-1/4" TILE ADHESIVE
-1/2" STONE VENEER

7
A-501
WALL TYPE 4
1" = 1' 0"



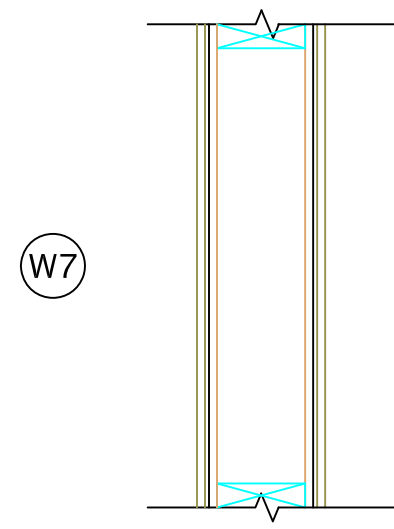
- W5-SOLAR THERMAL (LIVING ROOM)**
-SOLAR THERMAL PANEL
-2 PLY 30 MIN BUILDING PAPER M.B.
-3-1/2" STRUCTURAL INSULATED PANEL(SIP)
-1/2" GYPSUM BOARD
-3-1/2" DIRT WALL

8
A-501
WALL TYPE 5
1" = 1' 0"



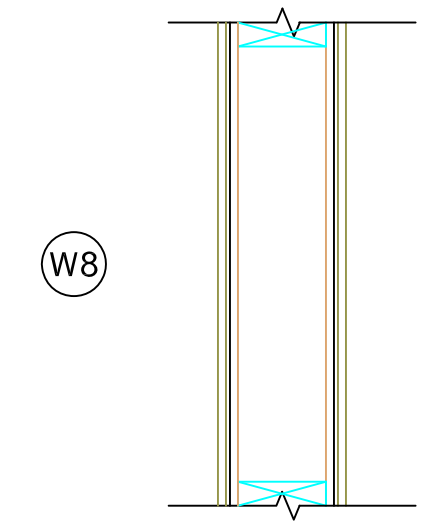
- W6-WOOD CLAD SIP**
-5/8" WOOD CLADDING RAW FINISH
-BUG SCREEN
-2-5/8" VERTICAL GALVANIZED STEEL Z-GIRT @ 24"O.
-2 PLY 30 MIN BUILDING PAPER M.B.
-6-1/2" STRUCTURAL INSULATED PANEL (SIP)
-1/4" TILE ADHESIVE
-1/2" STONE VENEER

9
A-501
WALL TYPE 6
1" = 1' 0"



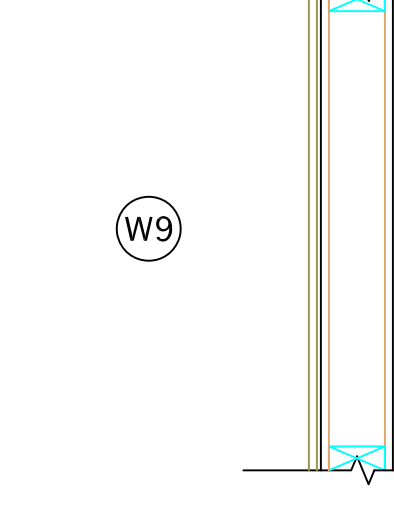
- W7-INTERIOR CORE**
-1/2" STONE VENEER
-1/4" TILE ADHESIVE
-1/2" PLYWOOD
-2X6 WALL @ 16"O.C.
-1/2" PLYWOOD
-1/4" TILE ADHESIVE
-1/2" STONE VENEER

10
A-501
WALL TYPE 7
1" = 1' 0"



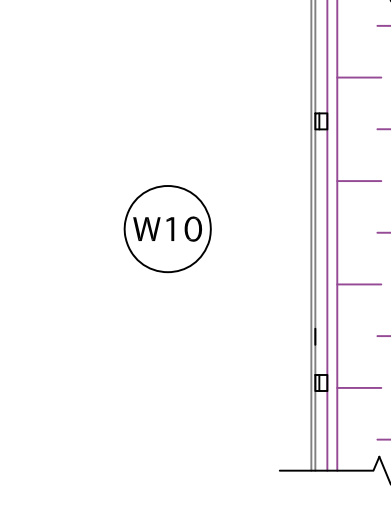
- W8-MECHANICAL CORE**
-1/2" STONE VENEER
-1/4" TILE ADHESIVE
-1/2" PLYWOOD
-2X6 WALL @ 16"O.C.
-1/4" DAMPENING GASKET
-1/2" PLYWOOD

11
A-501
WALL TYPE 8
1" = 1' 0"



- W9-MECHANICAL CORE**
-1/2" STONE VENEER
-1/4" TILE ADHESIVE
-1/2" PLYWOOD
-2X4 WALL @ 16"O.C.
-1/4" DAMPENING GASKET
-1/2" PLYWOOD

12
A-501
WALL TYPE 9
1" = 1' 0"

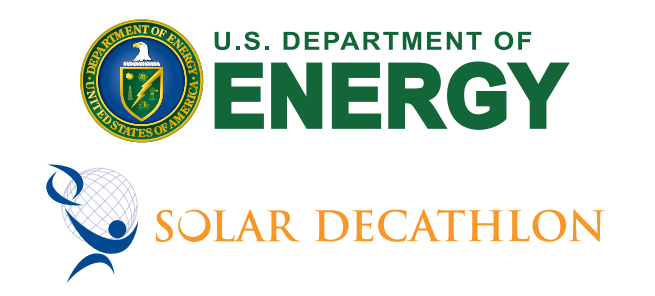


- W10-METAL CLAD SIP**
-18ga METAL CLADDING RAW FINISHED SHEET STEEL
- FASTMOUNT CLIPS @ 24"O.C.
-2 PLY 30 MIN BUILDING PAPER M.B.
-1/2" PLYWOOD
-2X4 STUD @ 16"O.C.

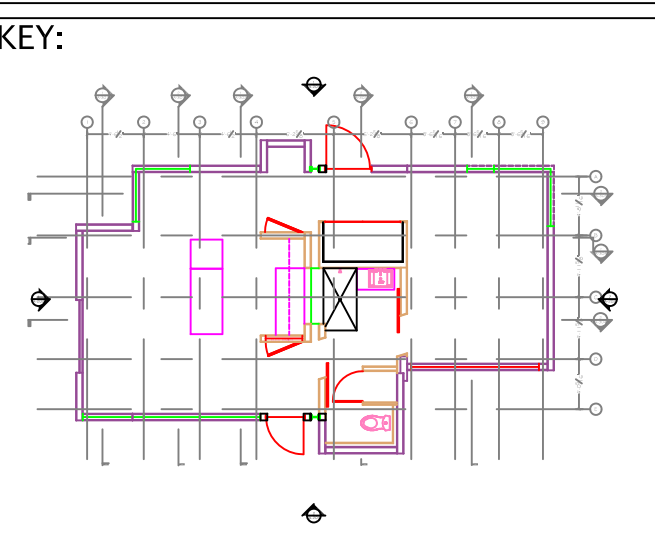
13
A-501
WALL TYPE 10
1" = 1' 0"



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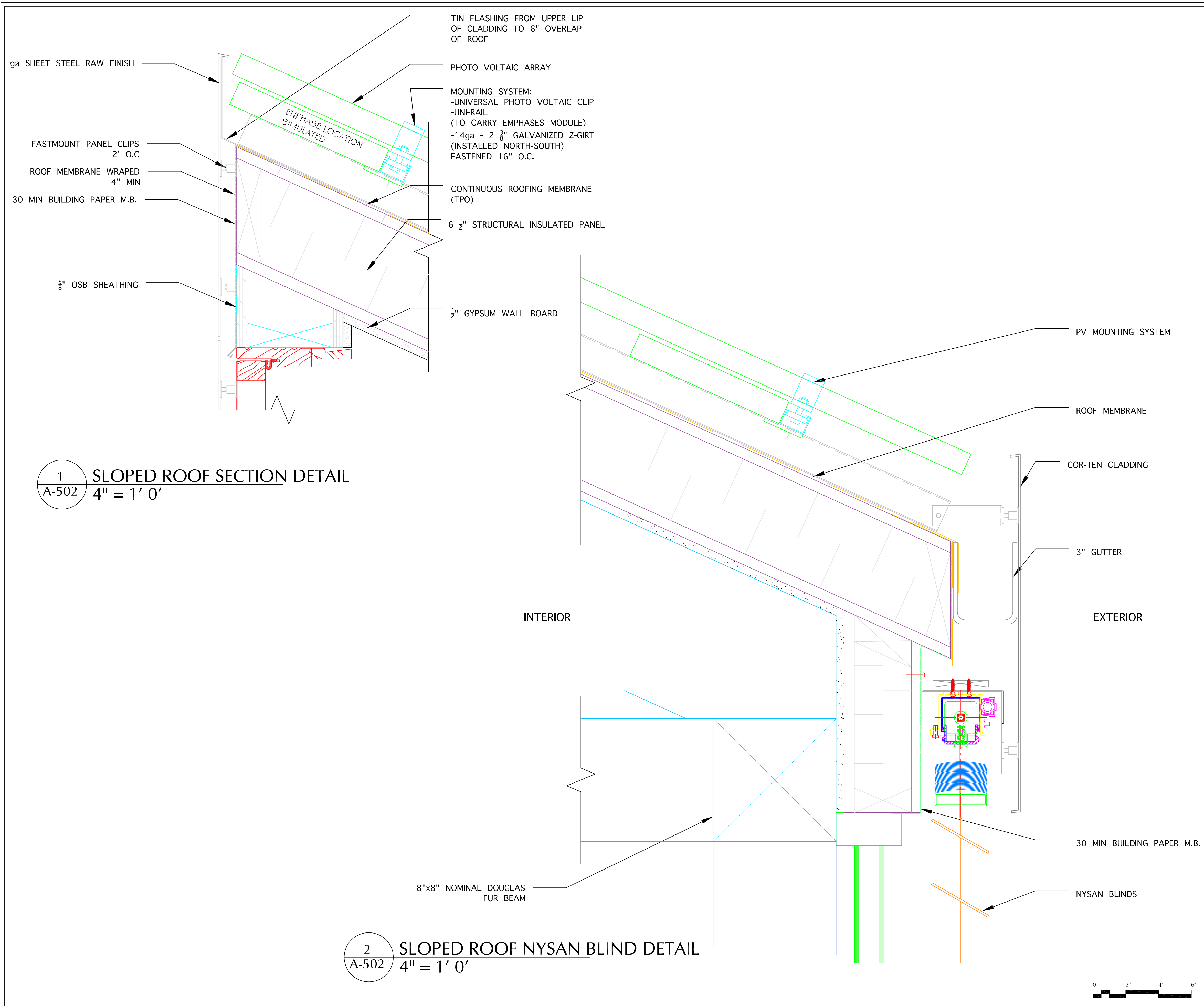
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CHECKED: KM

DATE: 2009/05/28

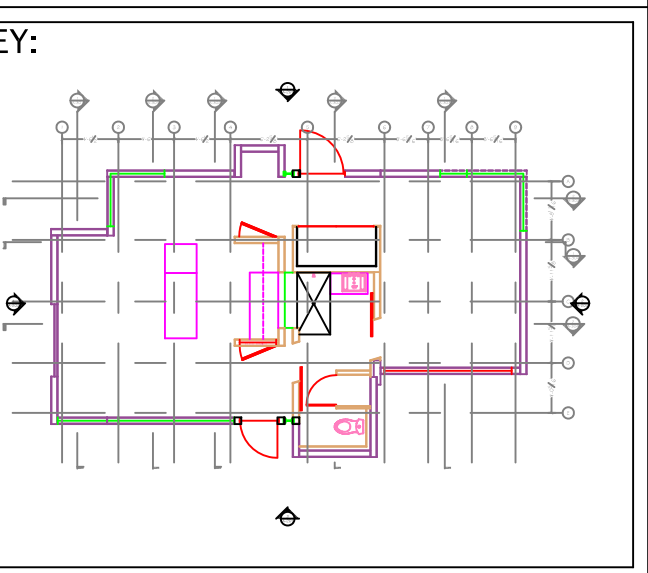
SCALE: 1" = 1' 0"

SHEET TITLE: WALL TYPES

SHEET #: A-501



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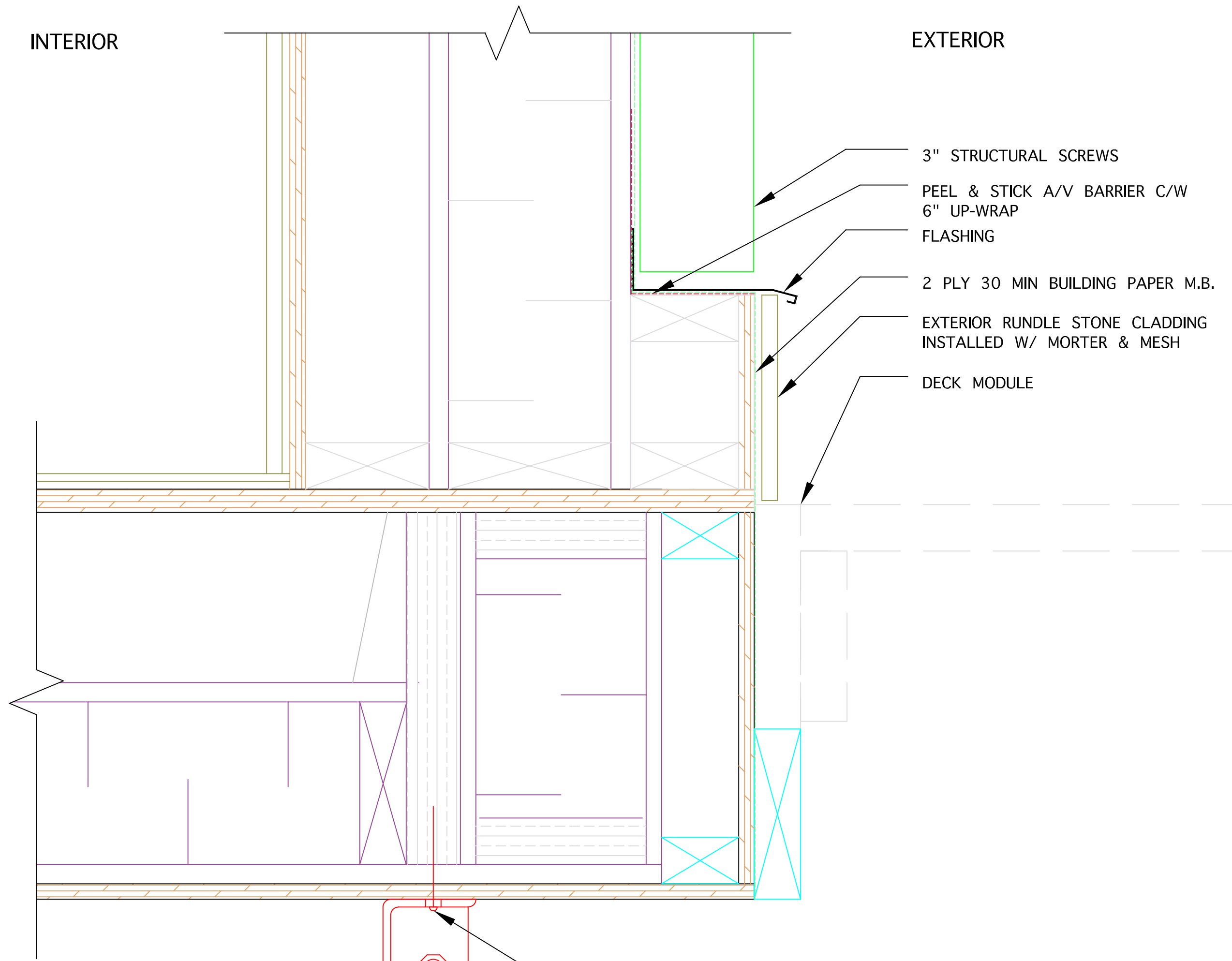
DRAWN: RA	CHECKED: TH
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DATE: 2009/05/30

SCALE: 4" = 1' 0"

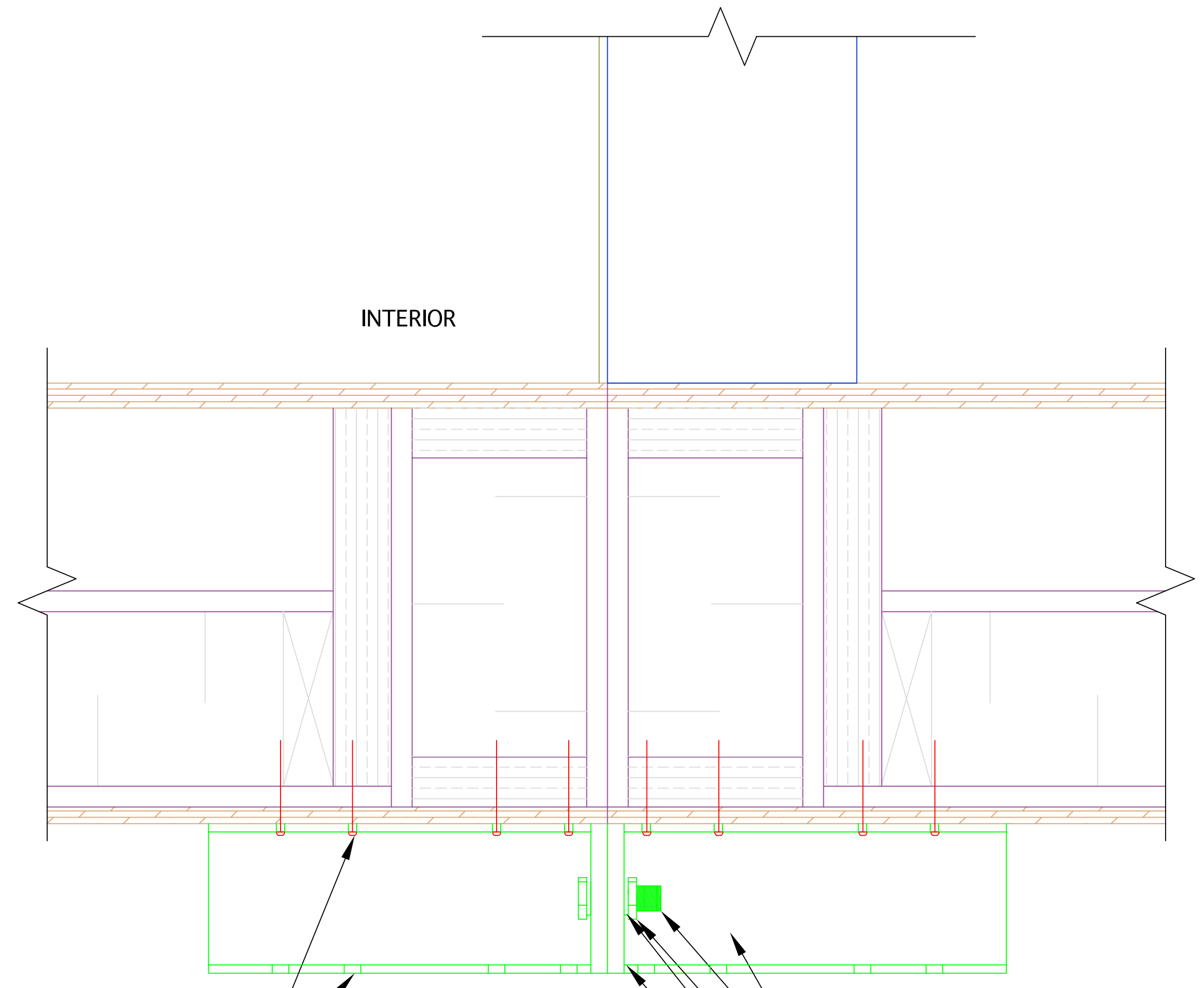
SHEET TITLE: SECTION DETAILS

SHEET #: A-502



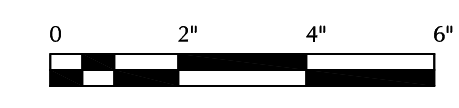
1
A-503
DETAIL
4" = 1' 0"

- 3" STRUCTURAL SCREWS
- 3/4"X4" BOLT
- 3/4" HEX NUT
- 4" STEEL CHANNEL
- PRE-DRILLED FOR FASTNER ACCESS

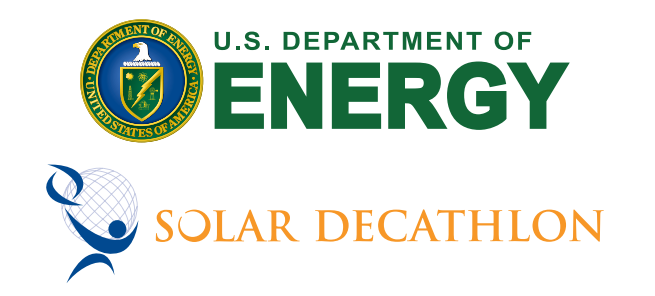


2
A-503
DETAIL
4" = 1' 0"

- 3" STRUCTURAL SCREWS TYP.
- PRE-DRILLED ACCESS HOLES TYP.
- EXTERIOR
- 4" X 12" X 1/4" STEEL CHANNEL (X2)
- 3/4"X4" BOLT
- 3/4" HEX NUT
- 3/4"STRUCTURAL WASHER
- 1/2" PLATE WELDED TO CHANNEL

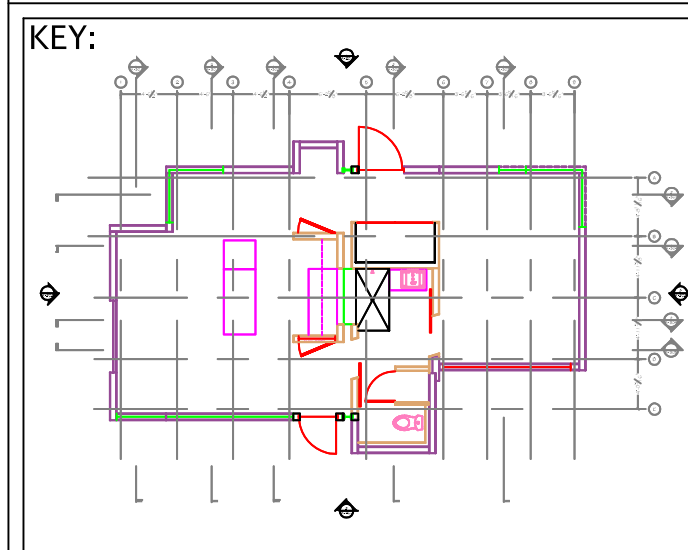


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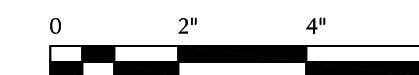
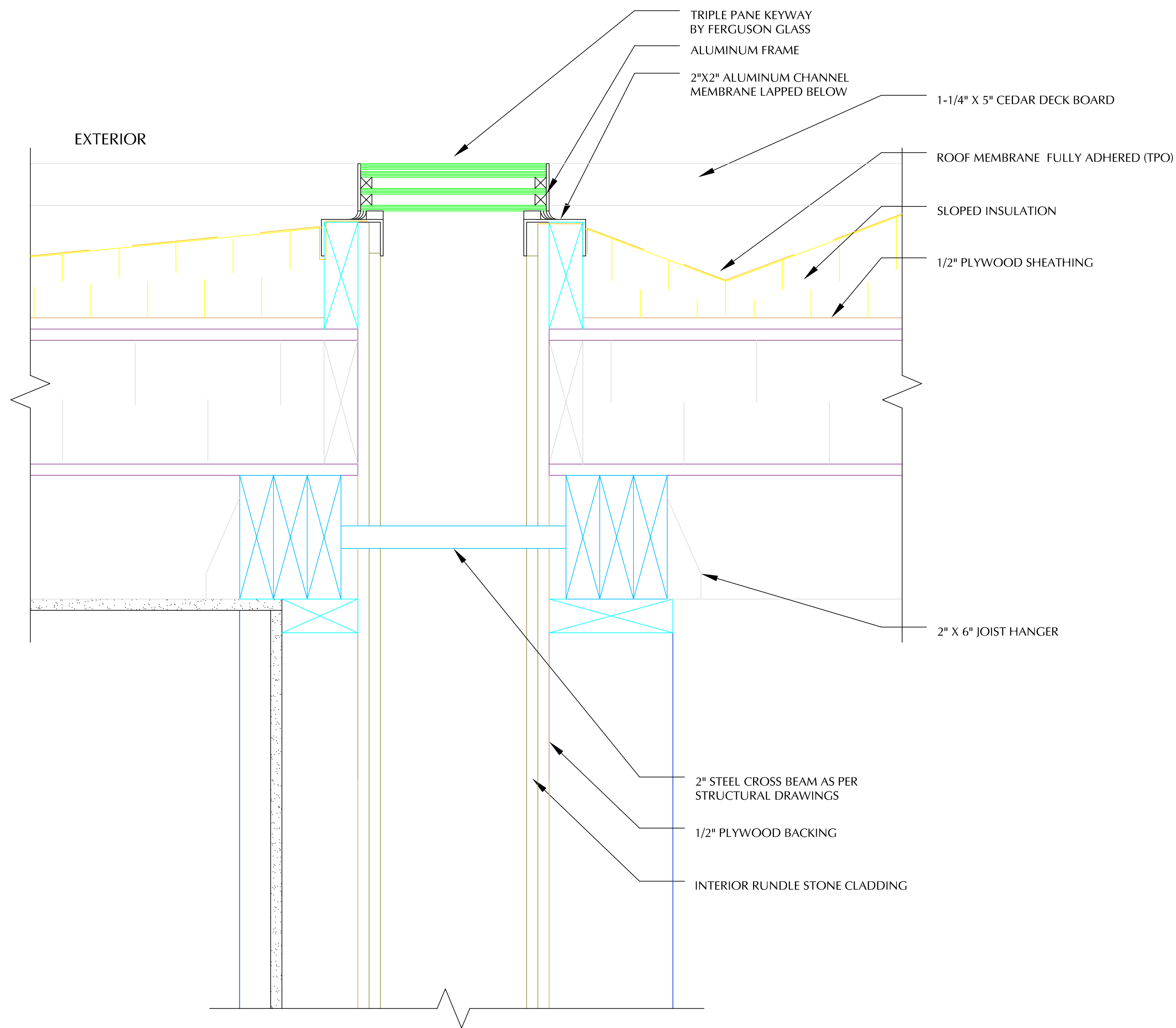
DRAWN: RA	CHECKED: TH
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DATE: 2009/05/30

SCALE: 4" = 1' 0"

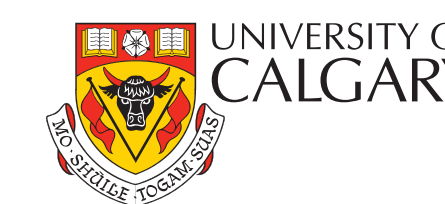
SHEET TITLE: DETAILS

SHEET #: A-503

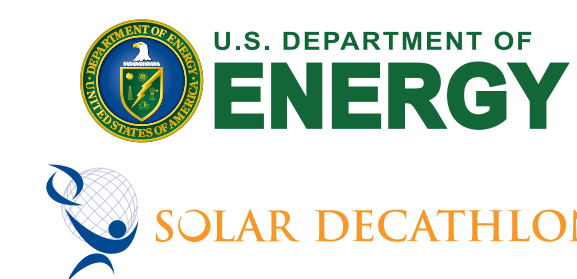


1
A-502

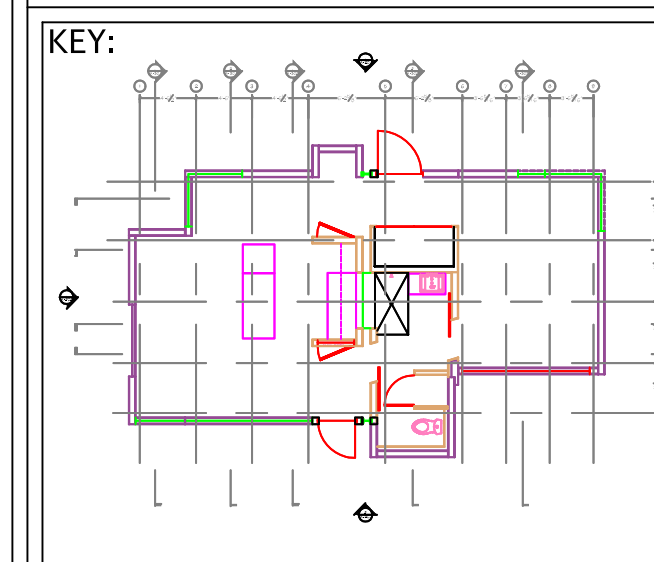
KEYWAY SECTION DETAIL
4" = 1' 0"



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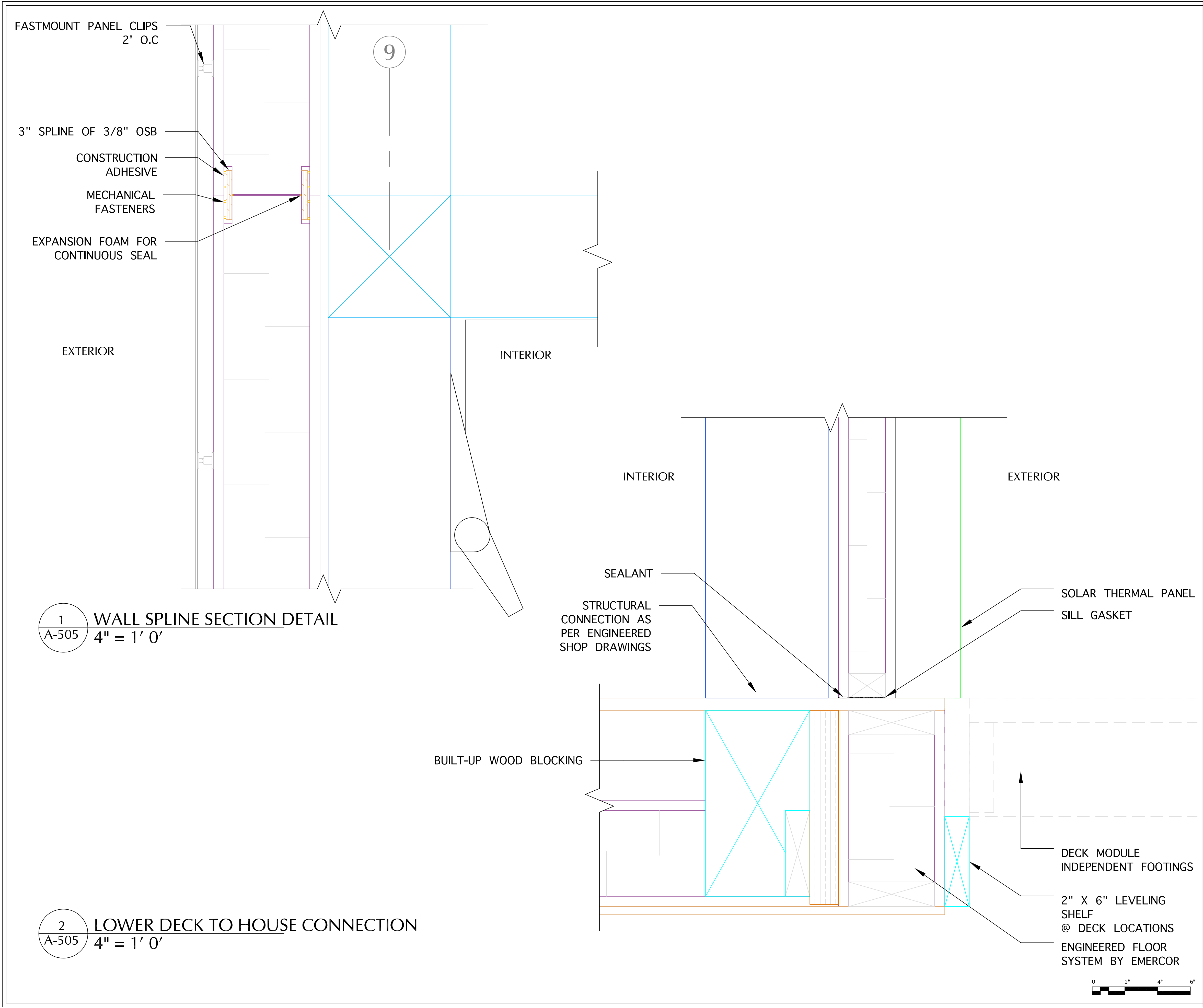
ISSUED DATES	
DATE:	DESCRIPTION
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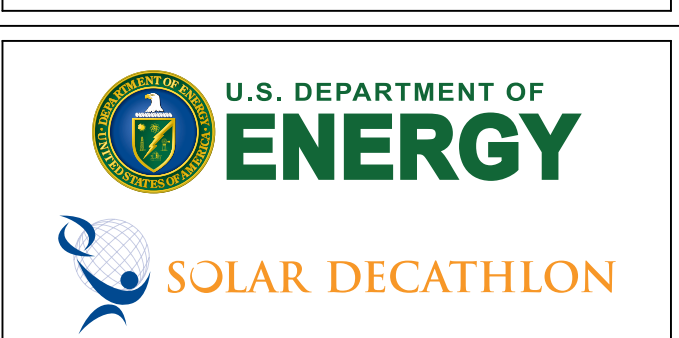
DRAWN: RA	CHECKED: TH
DATE:	2009/06/01
SCALE:	4" = 1' 0"

SHEET TITLE:	KEYWAY SECTION DETAIL
SHEET #:	A-504



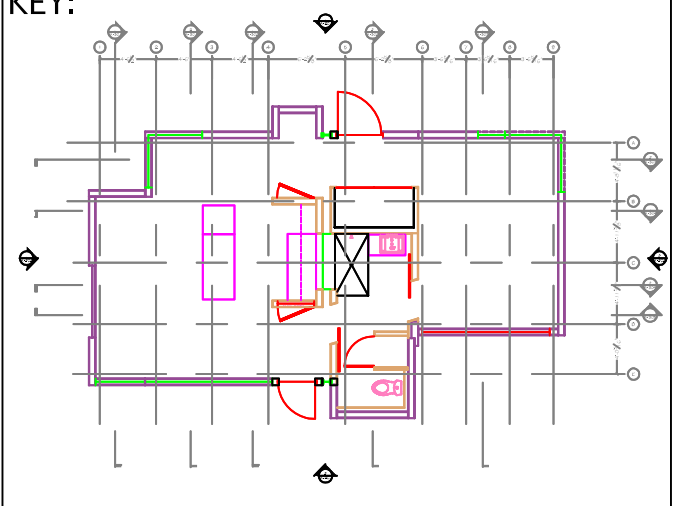


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ISSUED DATES	
DATE:	DESCRIPTION
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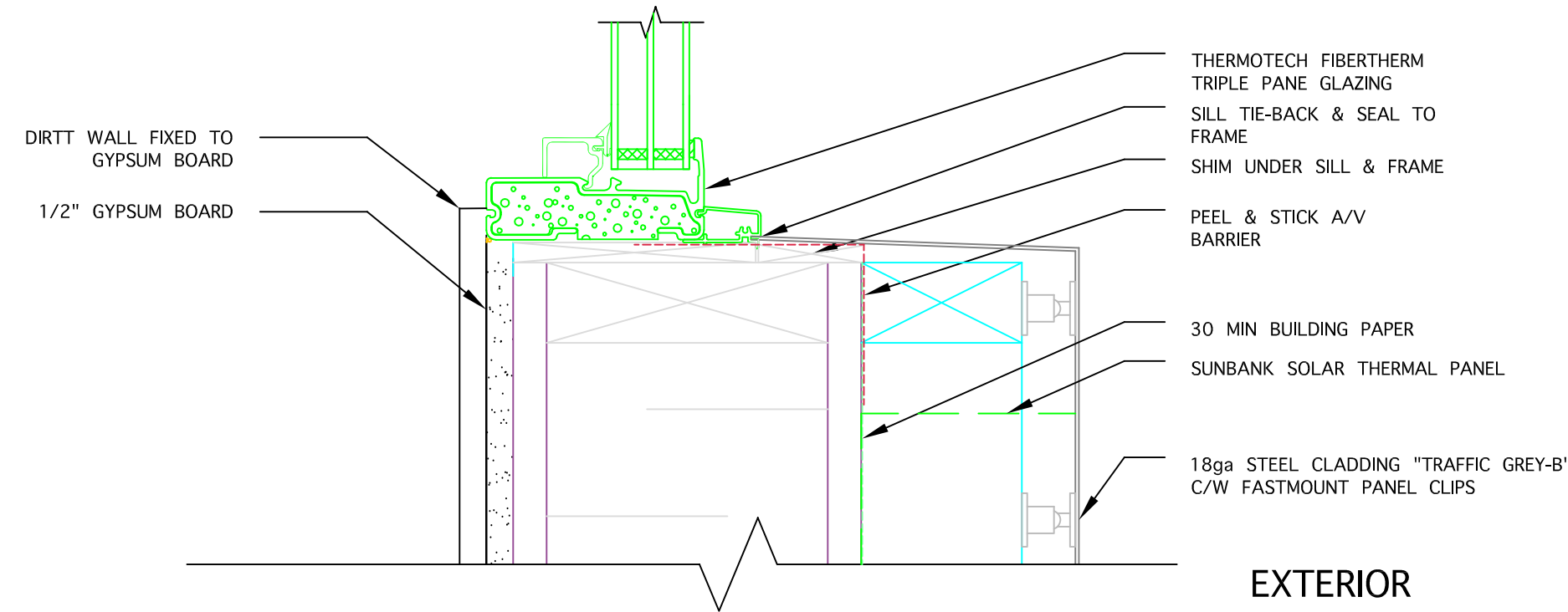
DRAWN: RA	CHECKED: TH
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DATE: 2009/06/01

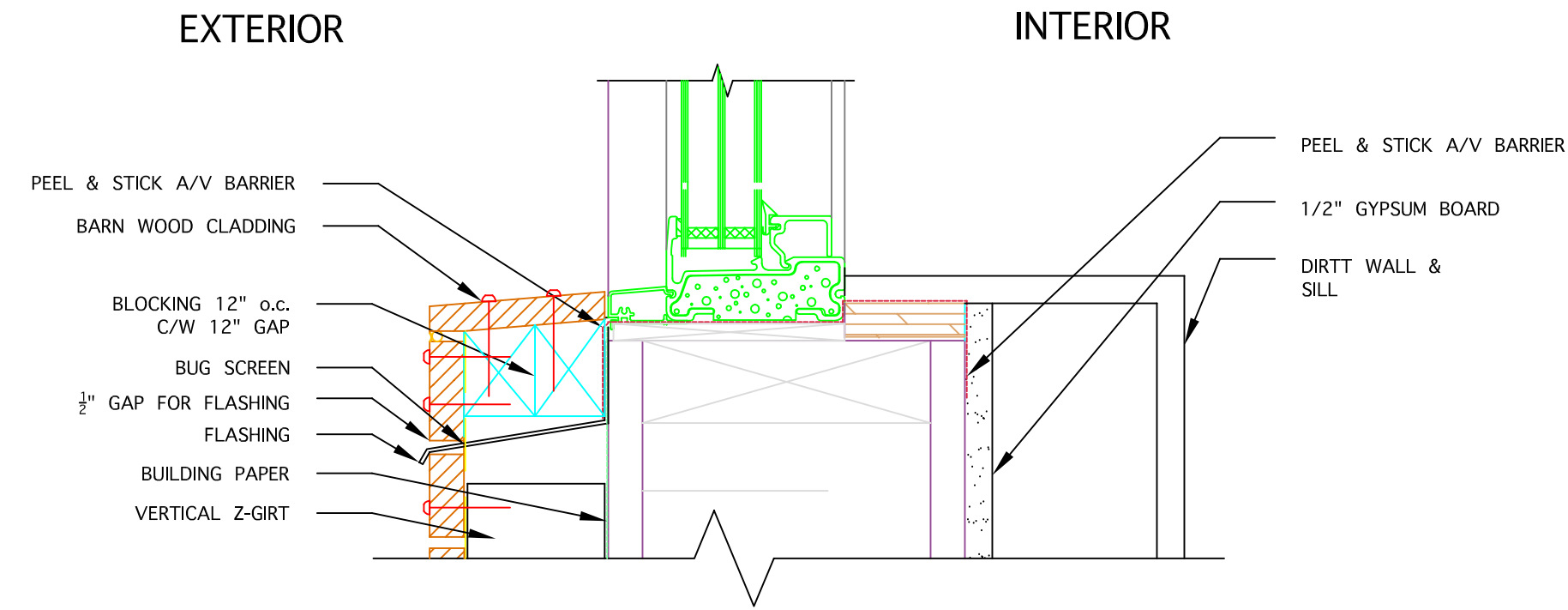
SCALE: 4" = 1' 0"

SHEET TITLE: WALL SECTION DETAILS

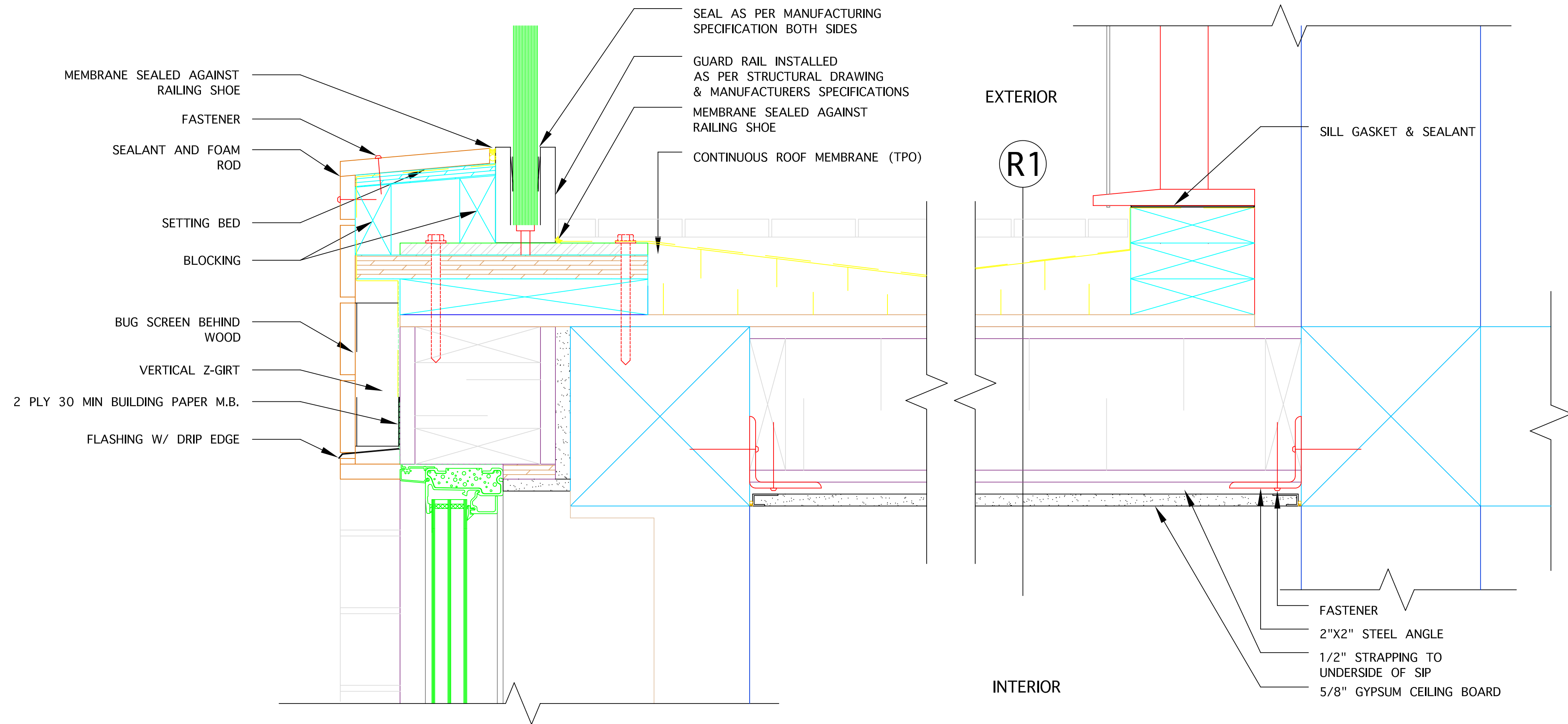
SHEET #: A-505



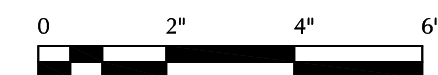
3
A-506
DETAIL
4" = 1' 0'



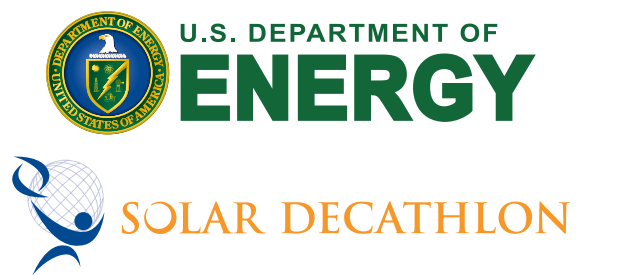
2
A-506
DETAIL
4" = 1' 0'



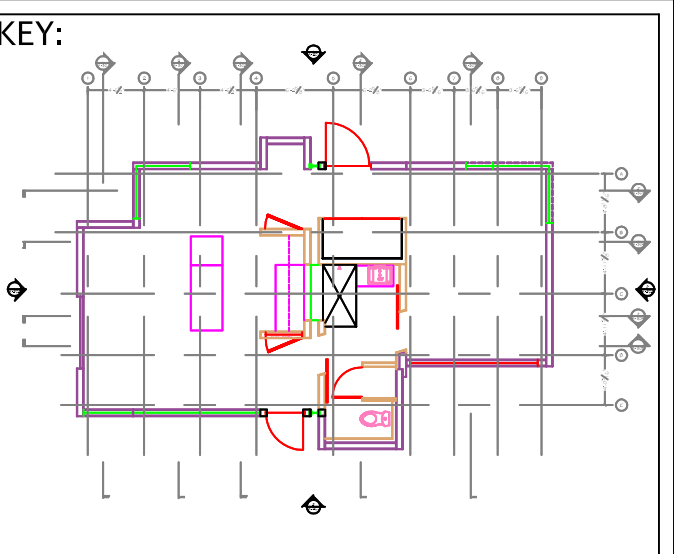
1
A-506
DETAIL
4" = 1' 0'



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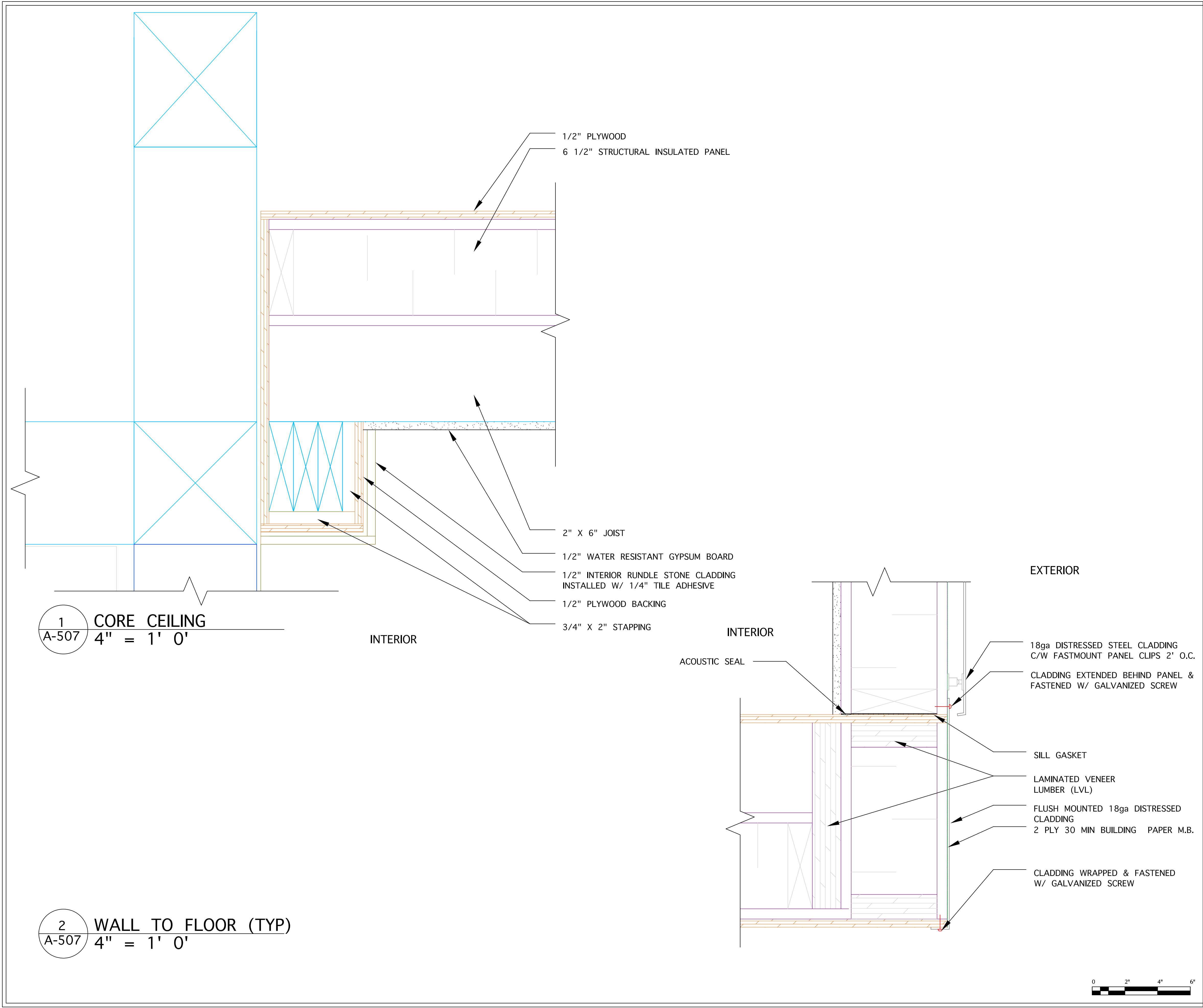
DRAWN: RA CHECKED: TH

DATE: 2009/05/30

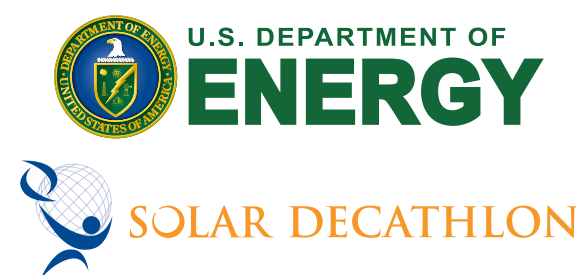
SCALE: 4" = 1' 0"

SHEET TITLE: WINDOW SECTION

SHEET #: A-506

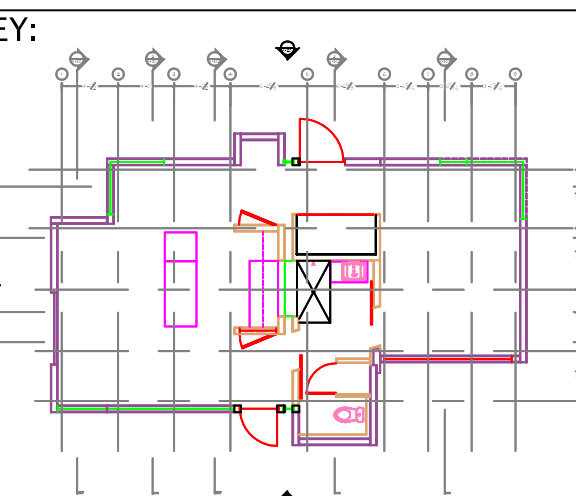


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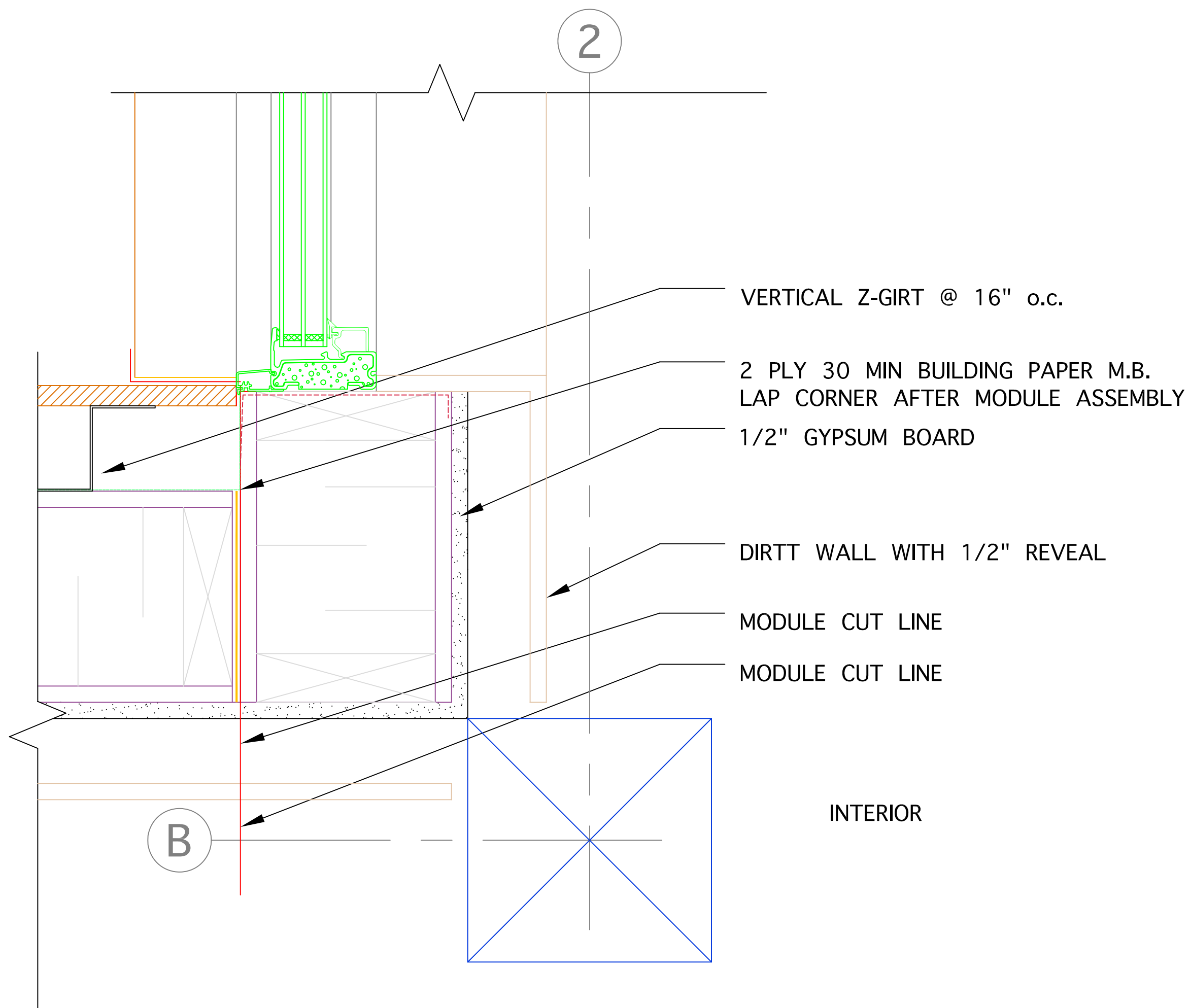
DRAWN: RA	CHECKED: TH
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DATE: 2009/06/01

SCALE:
4" = 1' 0"

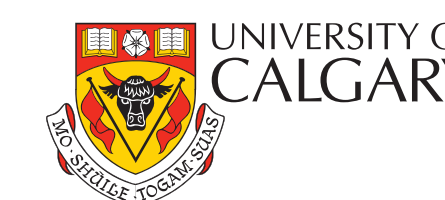
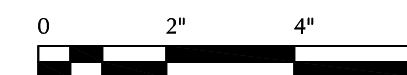
SHEET TITLE:
DETAILS

SHEET #:
A-507

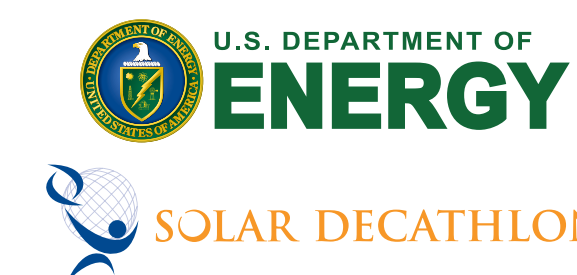


1
A-508

DETAIL
4" = 1' 0'

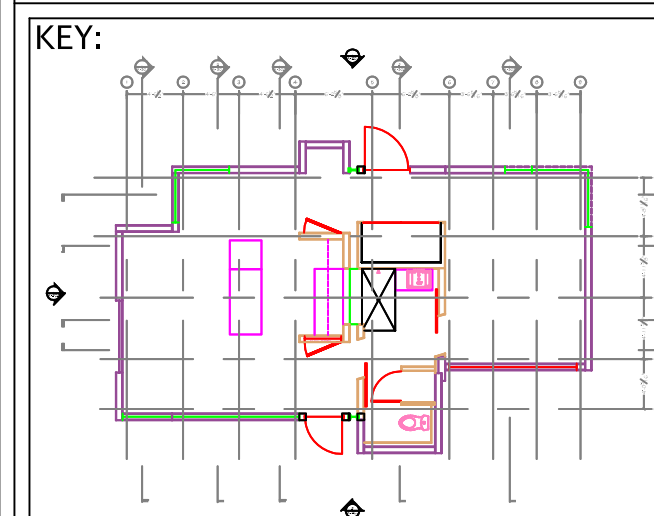


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REVISIONS	
DATE:	DESCRIPTION



STAMP:

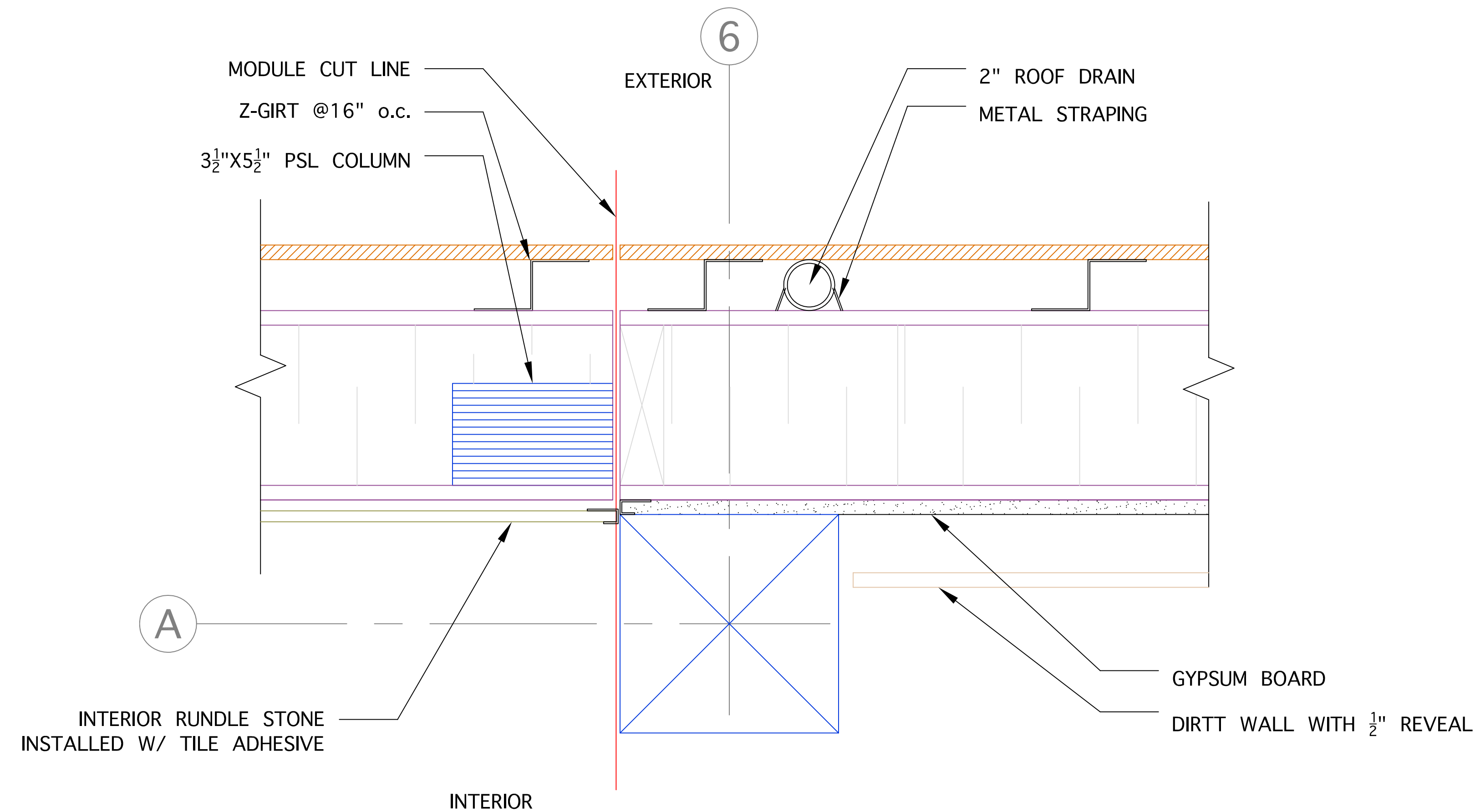
DRAWN: RA	CHECKED: TH
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DATE: 2009/05/30

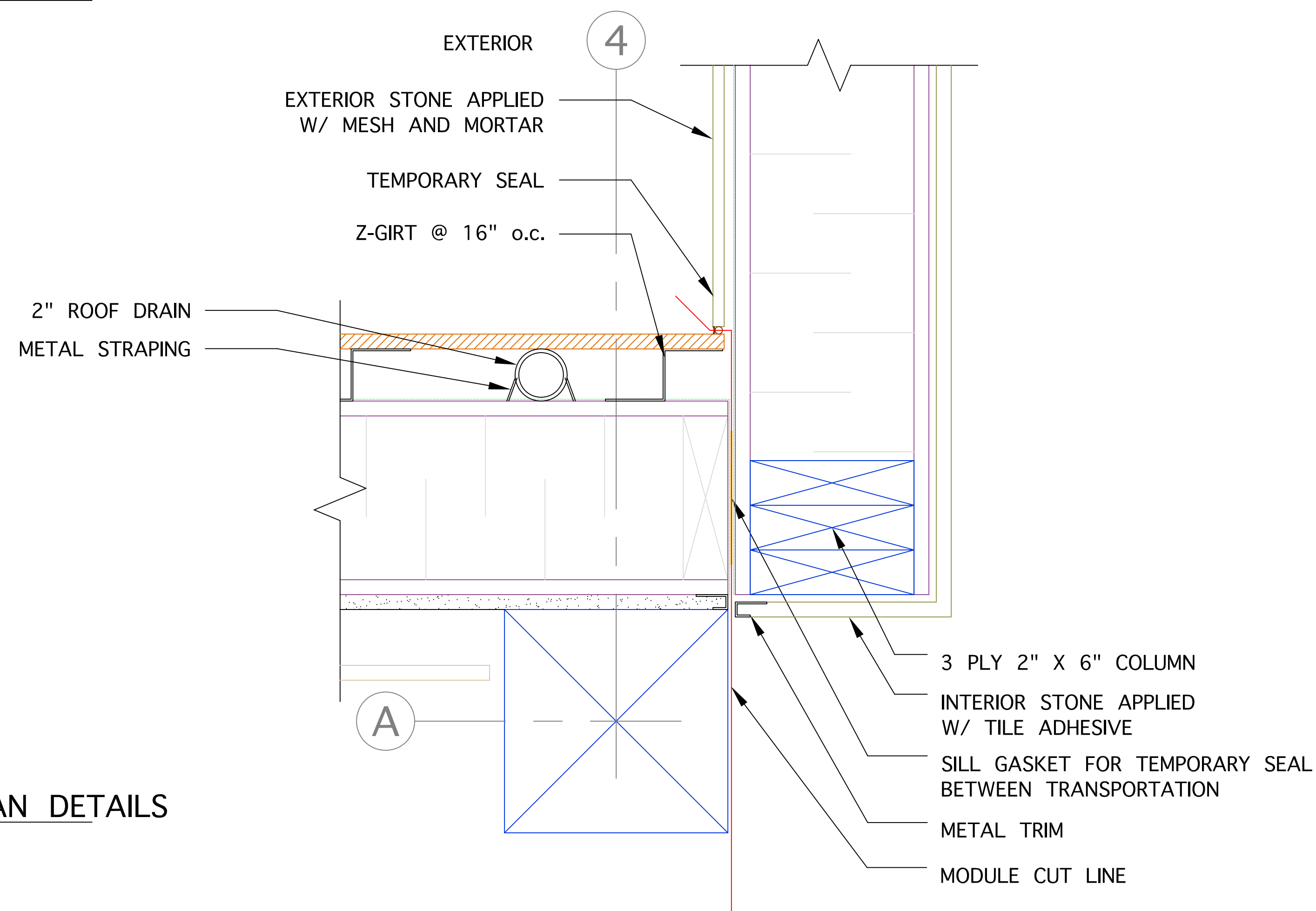
SCALE:
4" = 1' 0"

SHEET TITLE:
MODULE SEPERATION

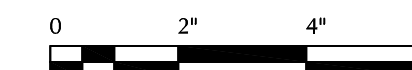
SHEET #:
A-508



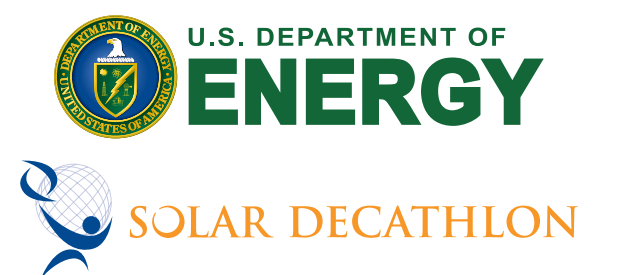
1
A-509 ROOF DRAIN PLAN DETAILS
4" = 1' 0"



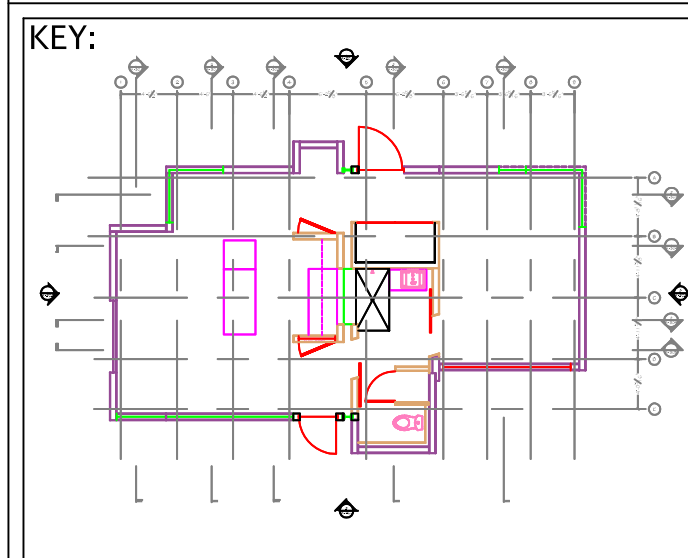
2
A-509 ROOF DRAIN PLAN DETAILS
4" = 1' 0"



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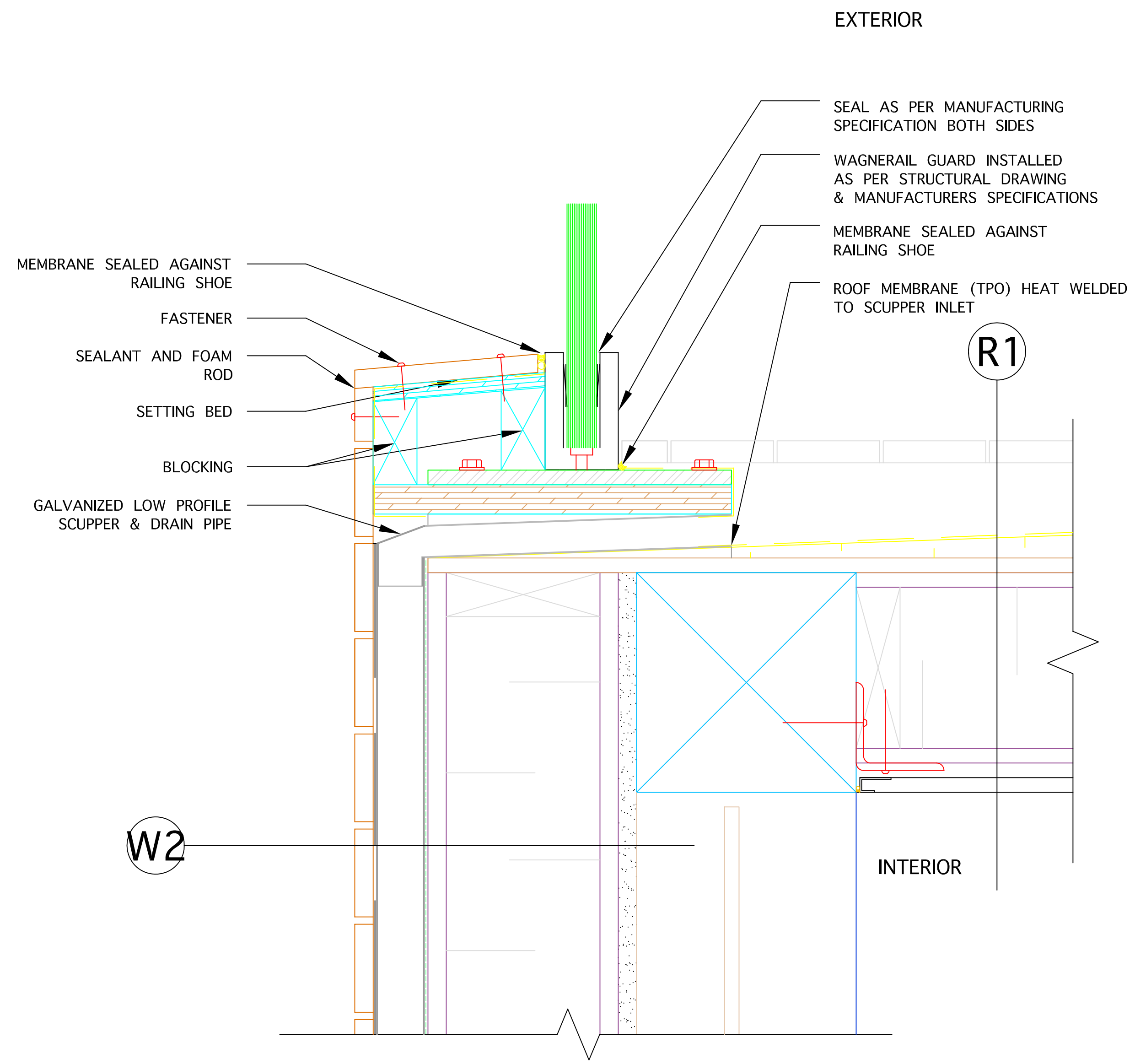
ISSUED DATES	
DATE:	DESCRIPTION
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REVISIONS	
DATE:	DESCRIPTION



STAMP:

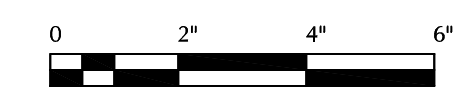
DRAWN: RA	CHECKED: TH
DATE:	2009/05/30
SCALE:	4" = 1' 0"

SHEET TITLE:	ROOF DRAIN PLAN DETAILS
SHEET #:	A-509

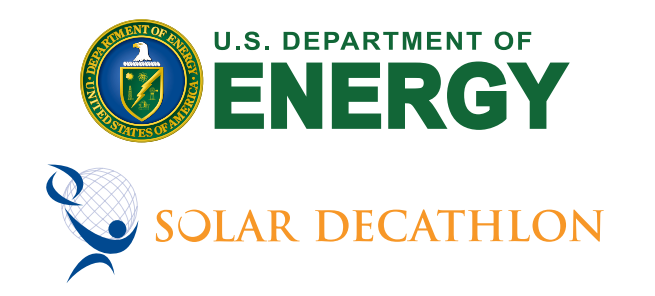


1
A-511

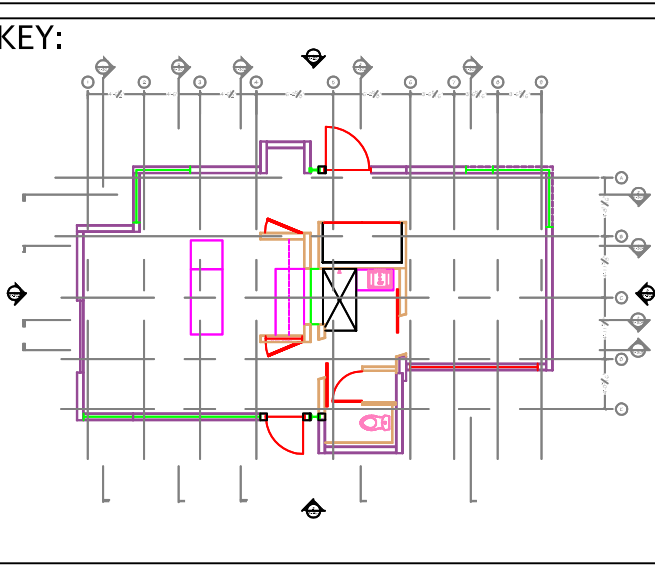
ROOF DRAIN SECTION
4" = 1' 0"



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DATE: 2009/05/30

SCALE: 4" = 1' 0"

SHEET TITLE: ROOF DRAIN SECTION

SHEET #: A-511

1

A-512

DETAIL

4" = 1' 0'


2





A-512

DETAIL



4" = 1' 0'







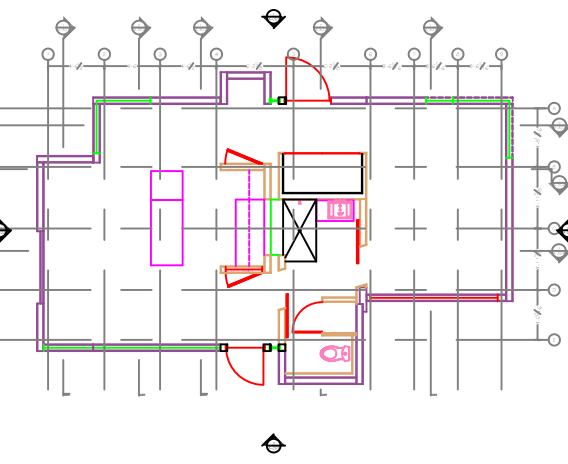
Alberta Solar Decathlon Team



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DATE:	DESCRIPTION
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DATE:	DESCRIPTION

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STAMP:

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RA

CHECKED:
TH

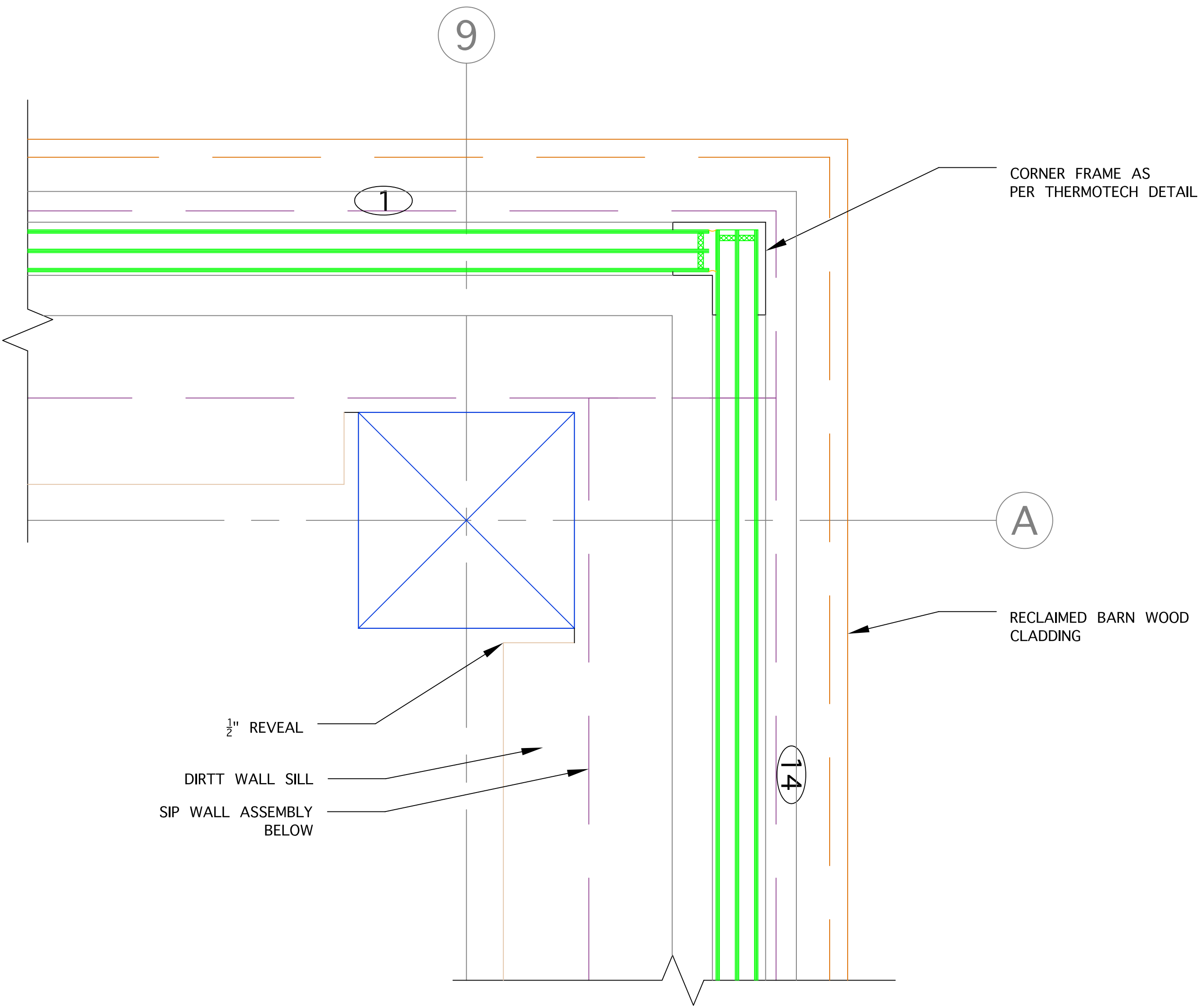
DATE:
2009/05/30

SCALE:
4" = 1' 0"

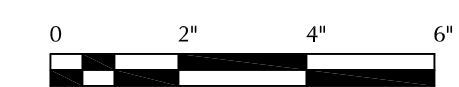
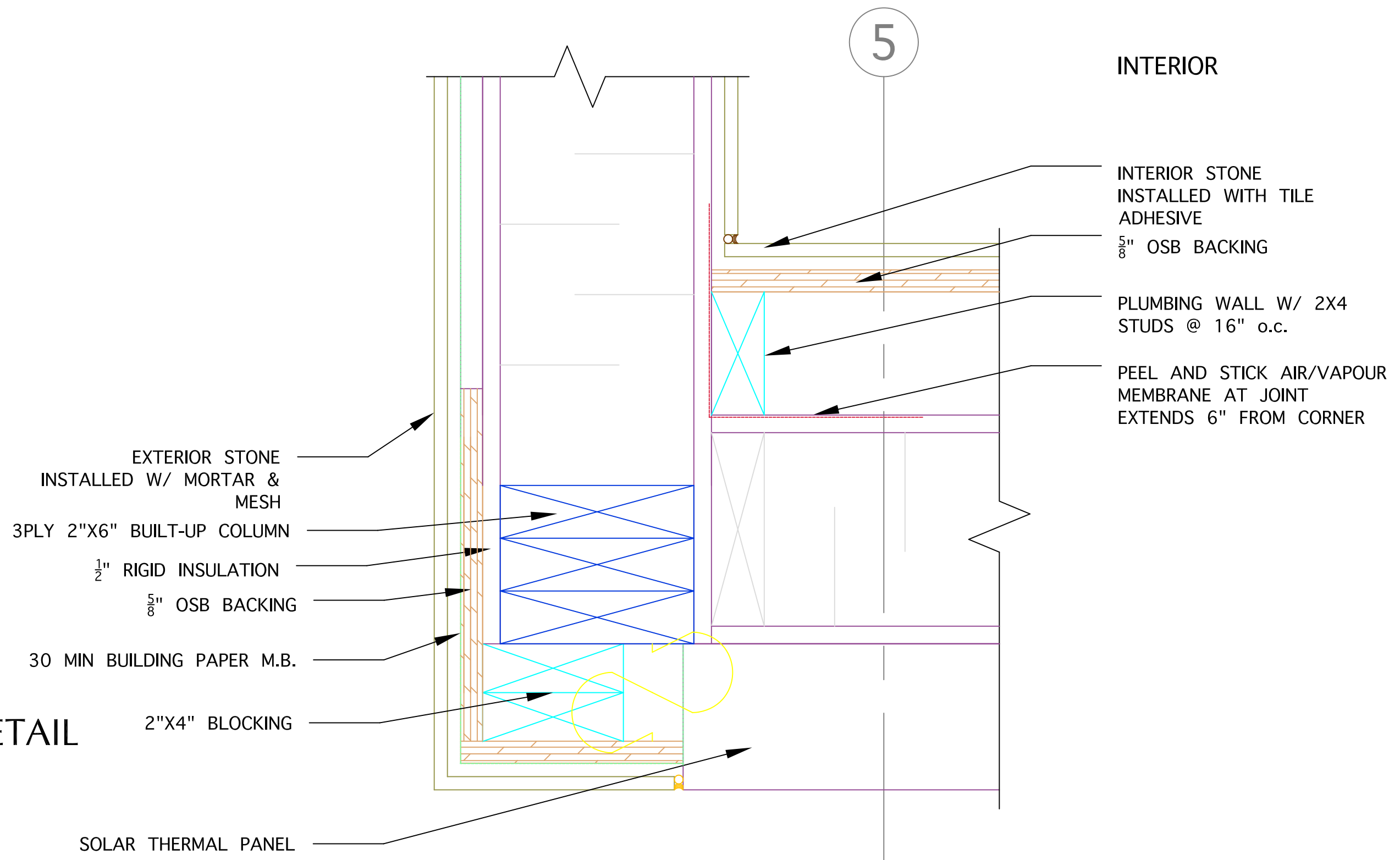
SHEET TITLE:
DETAILS

SHEET #:
A-512

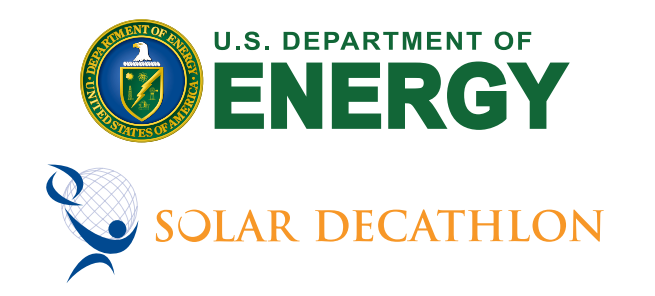
1 WINDOW PLAN DETAIL
4" = 1' 0'



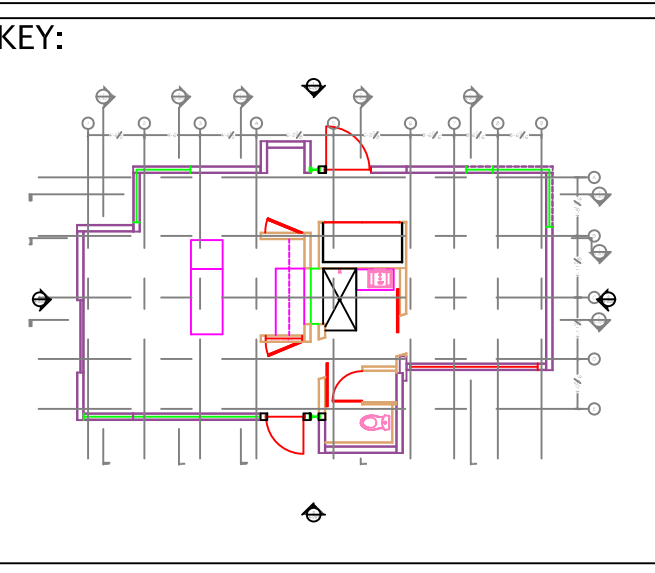
2 CORNER THERMAL PANEL PLAN DETAIL
4" = 1' 0'



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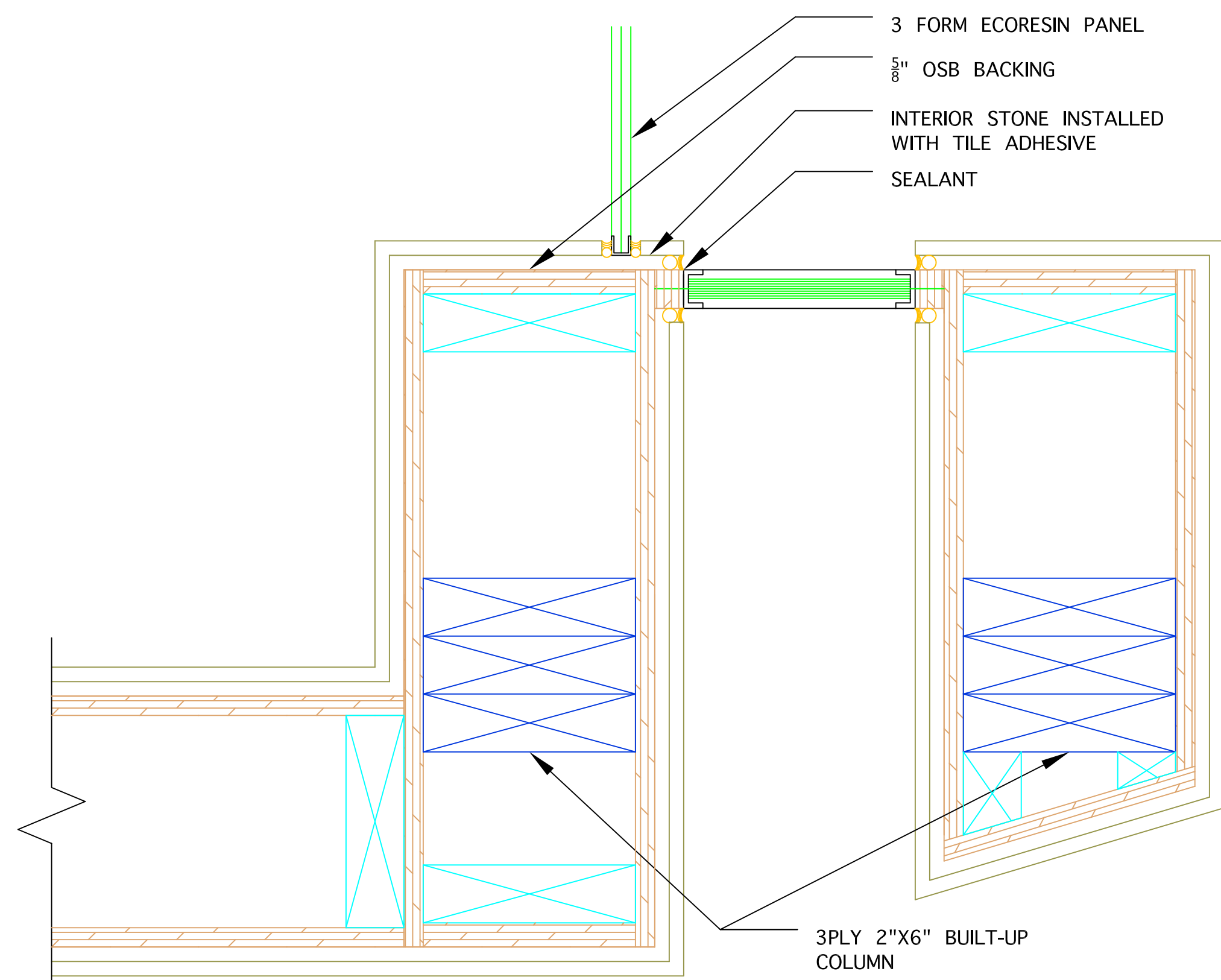
DRAWN: RA
CHECKED: TH

DATE: 2009/05/30

SCALE: 4" = 1' 0"

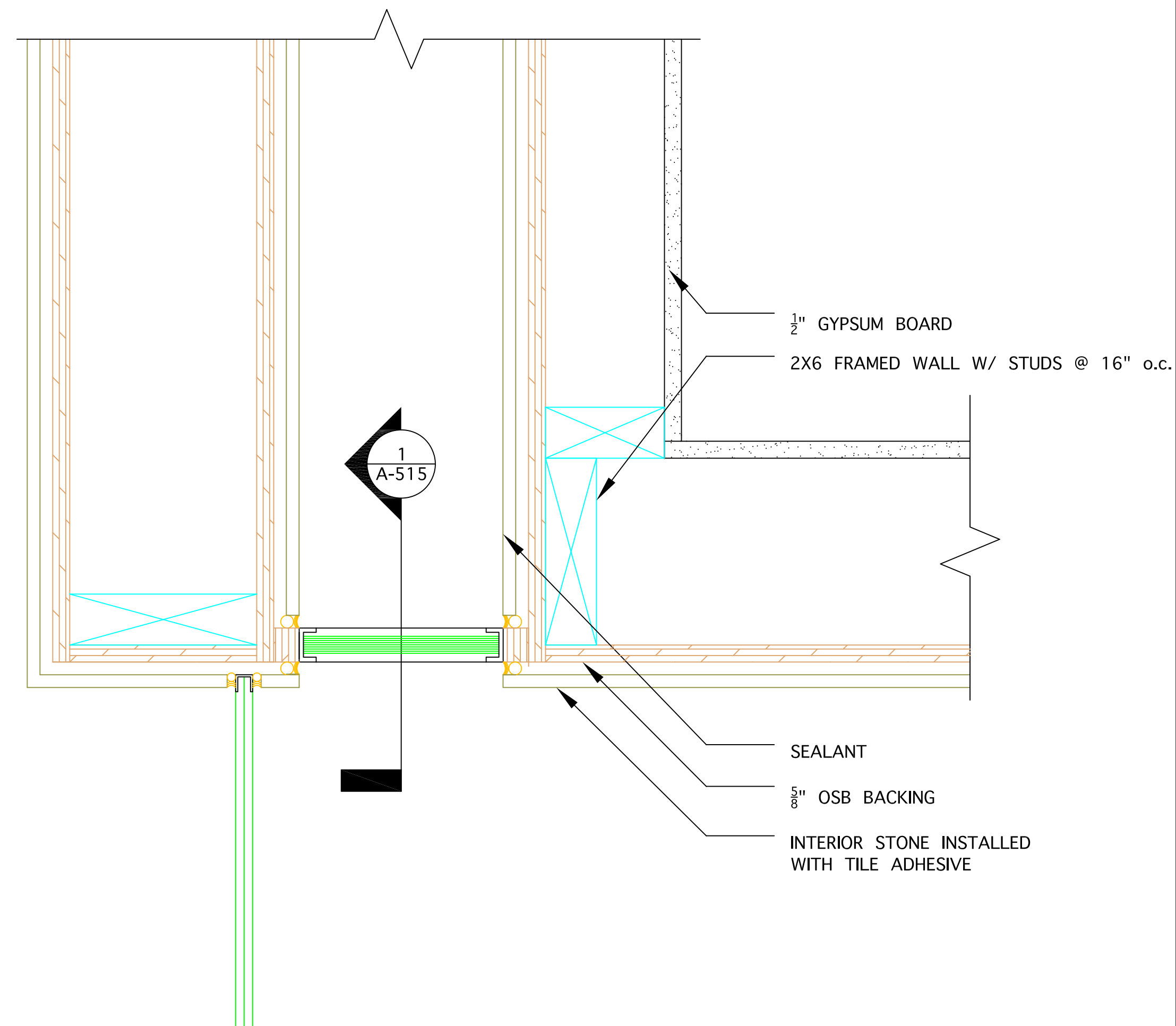
SHEET TITLE: CORNER PLAN DETAILS

SHEET #: A-513



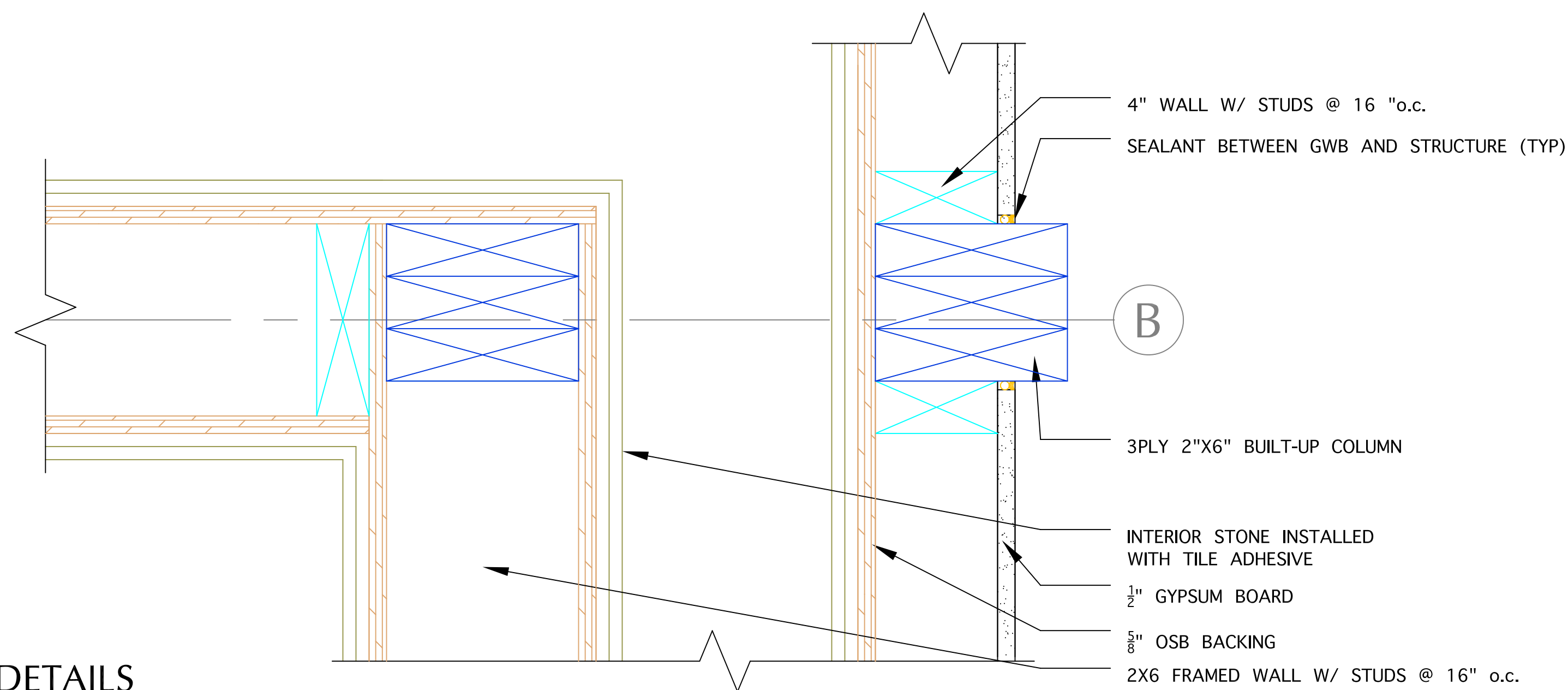
1
A-514

INTERIOR SOUTH CORE PLAN DETAIL
4" = 1' 0"



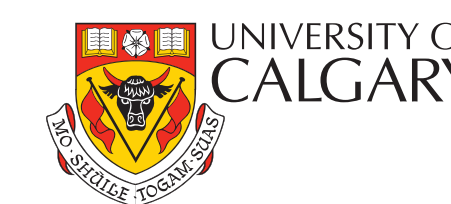
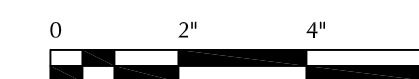
2
A-514

INTERIOR BATHROOM CORE DETAIL
4" = 1' 0"

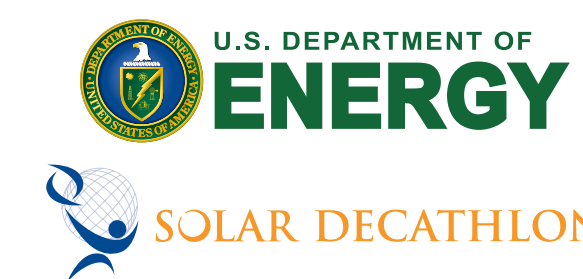


3
A-514

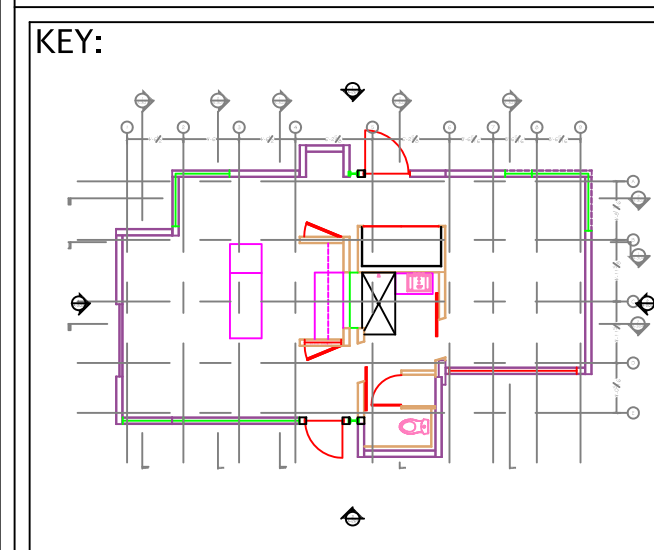
CORE COLUMN DETAILS
4" = 1' 0"



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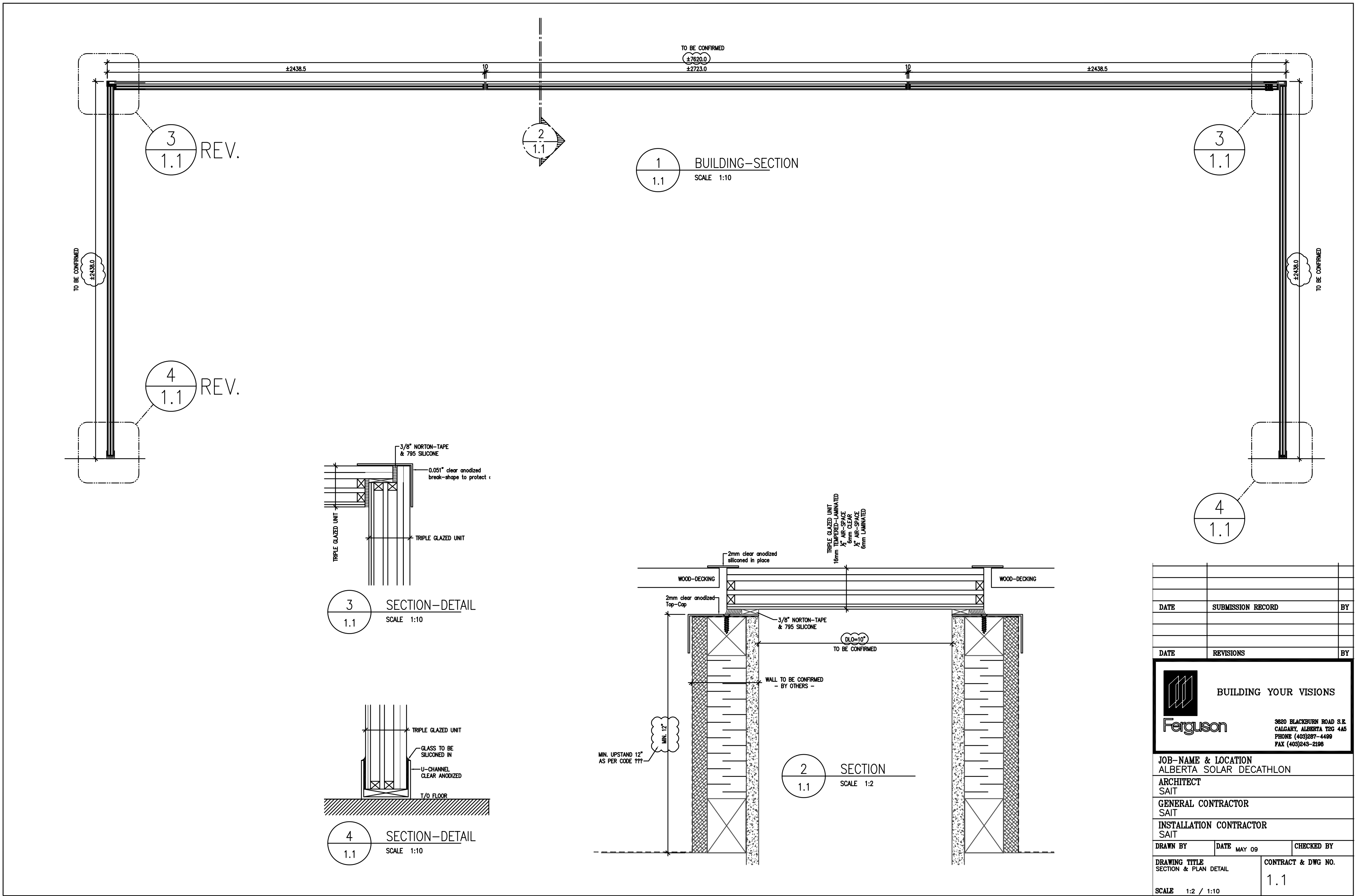
DRAWN: RA CHECKED: TH

DATE: 2009/05/30

SCALE: 4" = 1' 0"

SHEET TITLE: INTERIOR WALL PLAN DETAIL

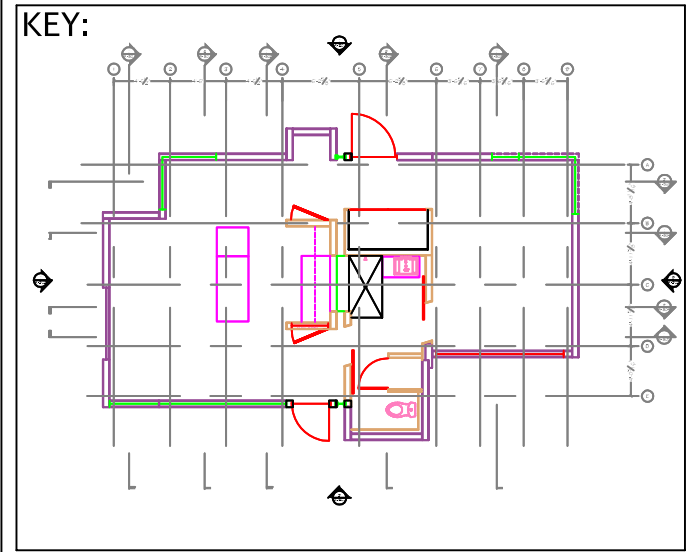
SHEET #: A-514



1
A-515

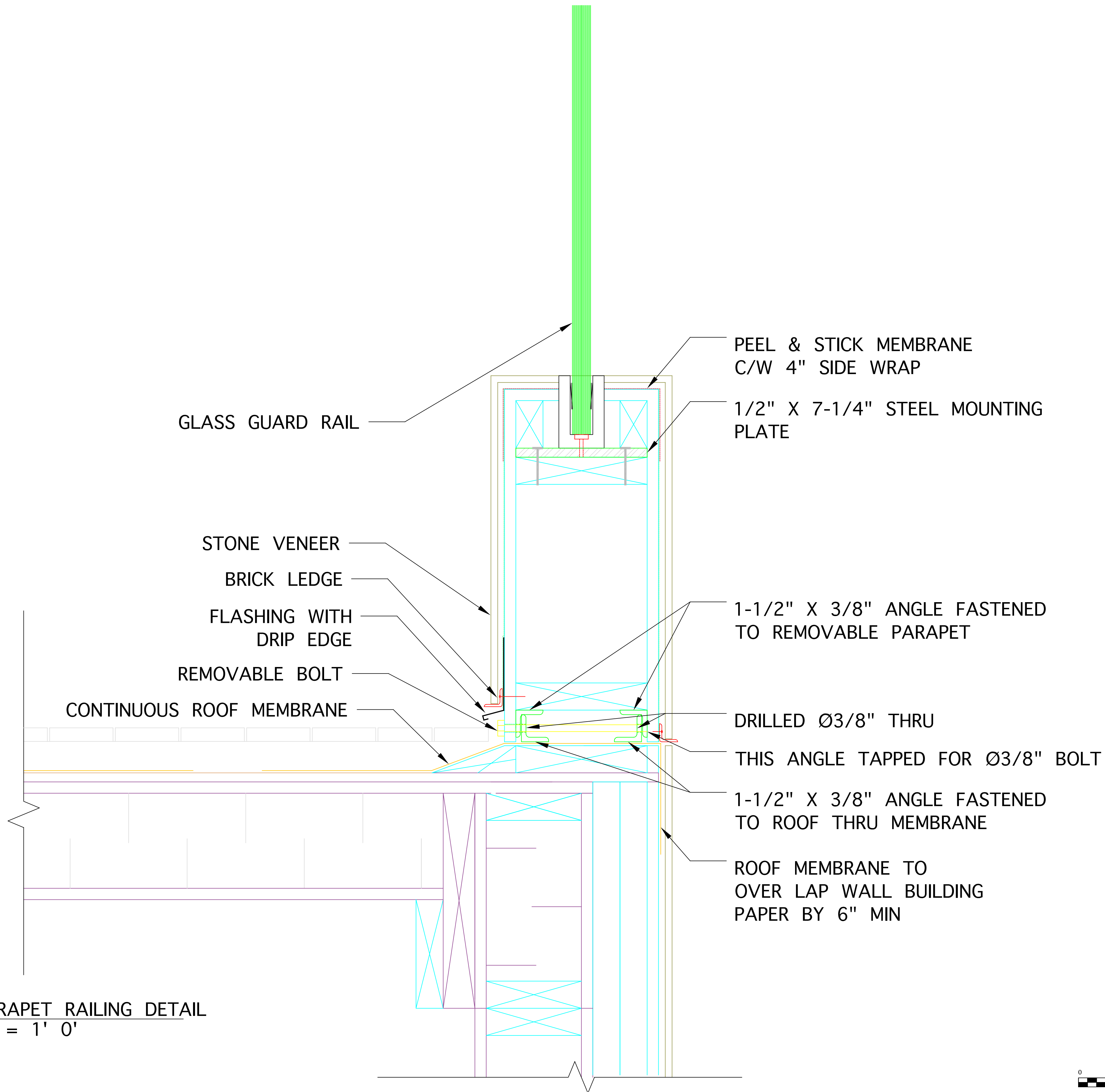
KEYWAY GLASS DETAIL
N.T.S.

ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION



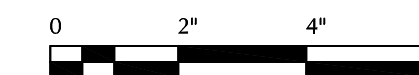
STAMP:

DRAWN: RA	CHECKED: TH
DATE: 2009/05/30	
SCALE: N.T.S	
SHEET TITLE: KEYWAY GLASS DETAIL	
SHEET #: A-515	

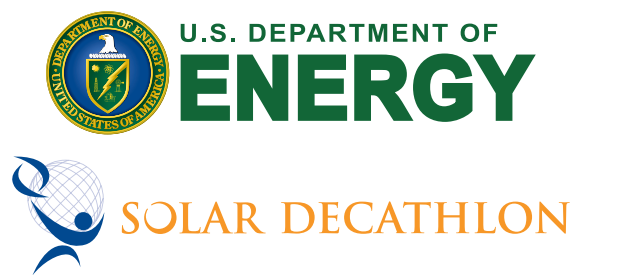


1
A-516

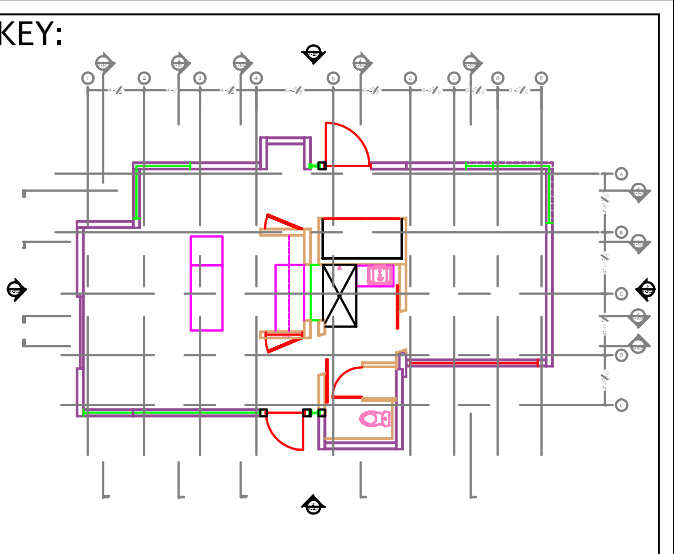
PARAPET RAILING DETAIL
4" = 1' 0"



Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



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DRAWN: RA	CHECKED: TH
DATE:	2009/05/30
SCALE:	4" = 1' 0"

SHEET TITLE:	PARAPET RAILING DETAIL
SHEET #:	A-516

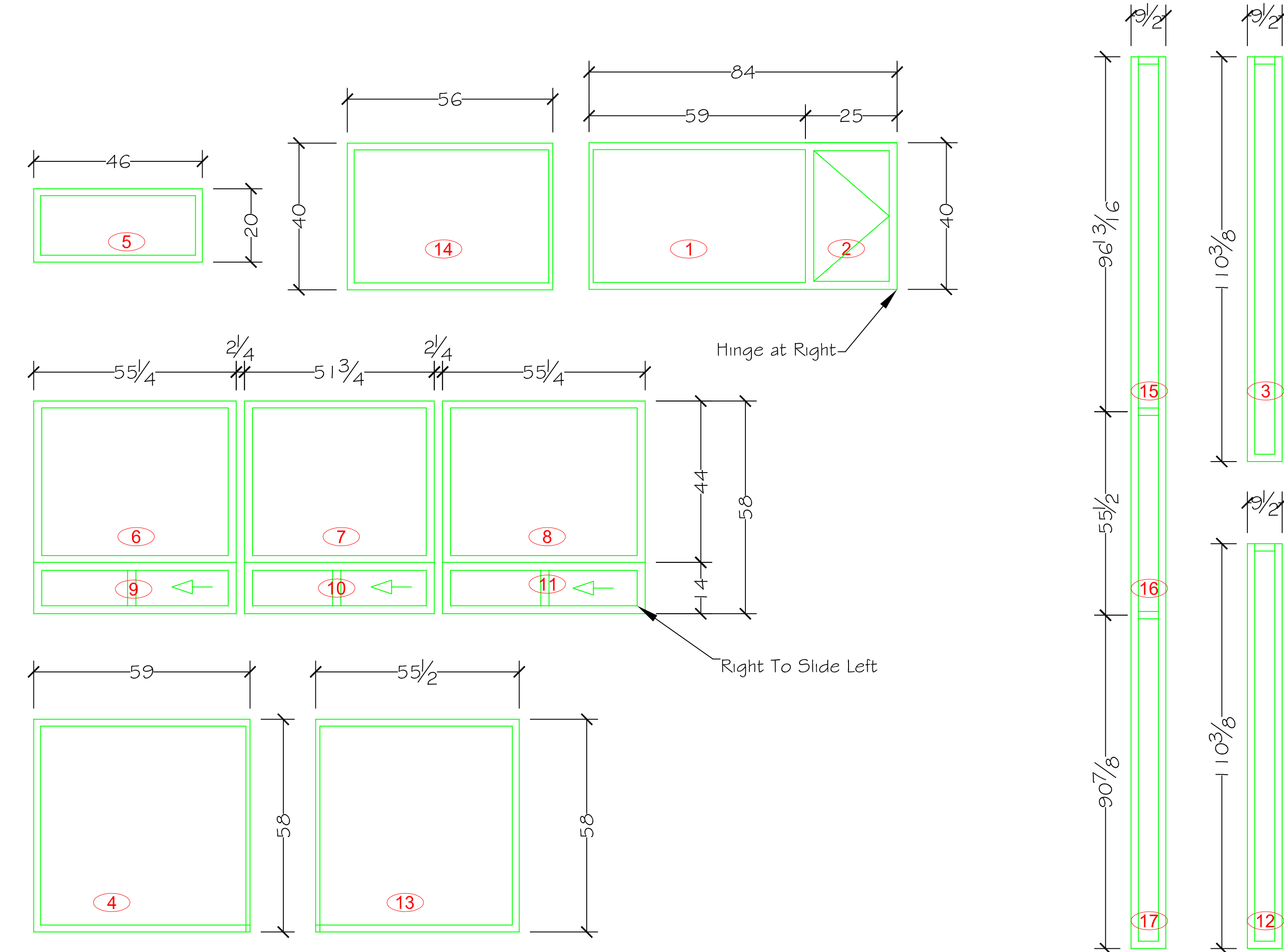
NORTH ELEVATION

SOUTH ELEVATION

WEST ELEVATION

EAST ELEVATION

1 WINDOW ELEVATIONS
A-601 1/8" = 1' 0"



2 WINDOW SCHEDULE
A-601 1/2" = 1' 0"

PLEASE NOTE THE FOLLOWING:
WINDOWS DRAWN AS VIEWED FROM THE OUTSIDE
FRAME COLOUR- ALL WINDOWS COLOUR CODE: RAL# 7043 "TRAFFIC GREY B"
CASEMENT WINDOW 2 ATTACHED TO RIGHT OF WINDOW
SLIDER WINDOWS 9, 10, 11 SHOULD SLIDE TO LEFT

WINDOW SCHEDULE							
NO	SIZE		TYPE	GLAZING	SAFETY GLASS	NOTE	QTY
	WIDTH	HEIGHT					
1	59"	40"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
2	25"	40"	R-CASE	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	COMBINED WITH # 1	1
3	0' 9 - 1/2"	1 10 - 3/8"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	KEYWAY	1
4	59"	58"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
5	46"	20"	HOPPER	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	OPEN TO THE INSIDE	2
6	55 - 1/4"	44"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
7	51 - 3/8"	44"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
8	55 - 1/4"	44"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
9	55 - 1/4"	14"	SLIDER	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	SLIDER WINDOW	1
10	51 - 3/8"	14"	SLIDER	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	SLIDER WINDOW	1
11	55 - 1/4"	14"	SLIDER	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	SLIDER WINDOW	1
12	0' 9 - 1/2"	1 10 - 3/8"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	KEYWAY	1
13	55 - 1/2"	58"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
14	56"	40"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓		1
15	0' 9 - 1/2"	96 - 1 3/16"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	KEYWAY	1
16	0' 9 - 1/2"	55 - 1/2"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	KEYWAY	1
17	0' 9 - 1/2"	90 - 7/8"	FIXED	TRIPLE GLAZE, DBLE LOW-E, ARGON	✓	KEYWAY	1
				3/8" Offset For Window Rough Openings			
				All Windows 23" From Top Of Subfloor			
				All Windows 3/8" From Bottom Of Beam			

ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION

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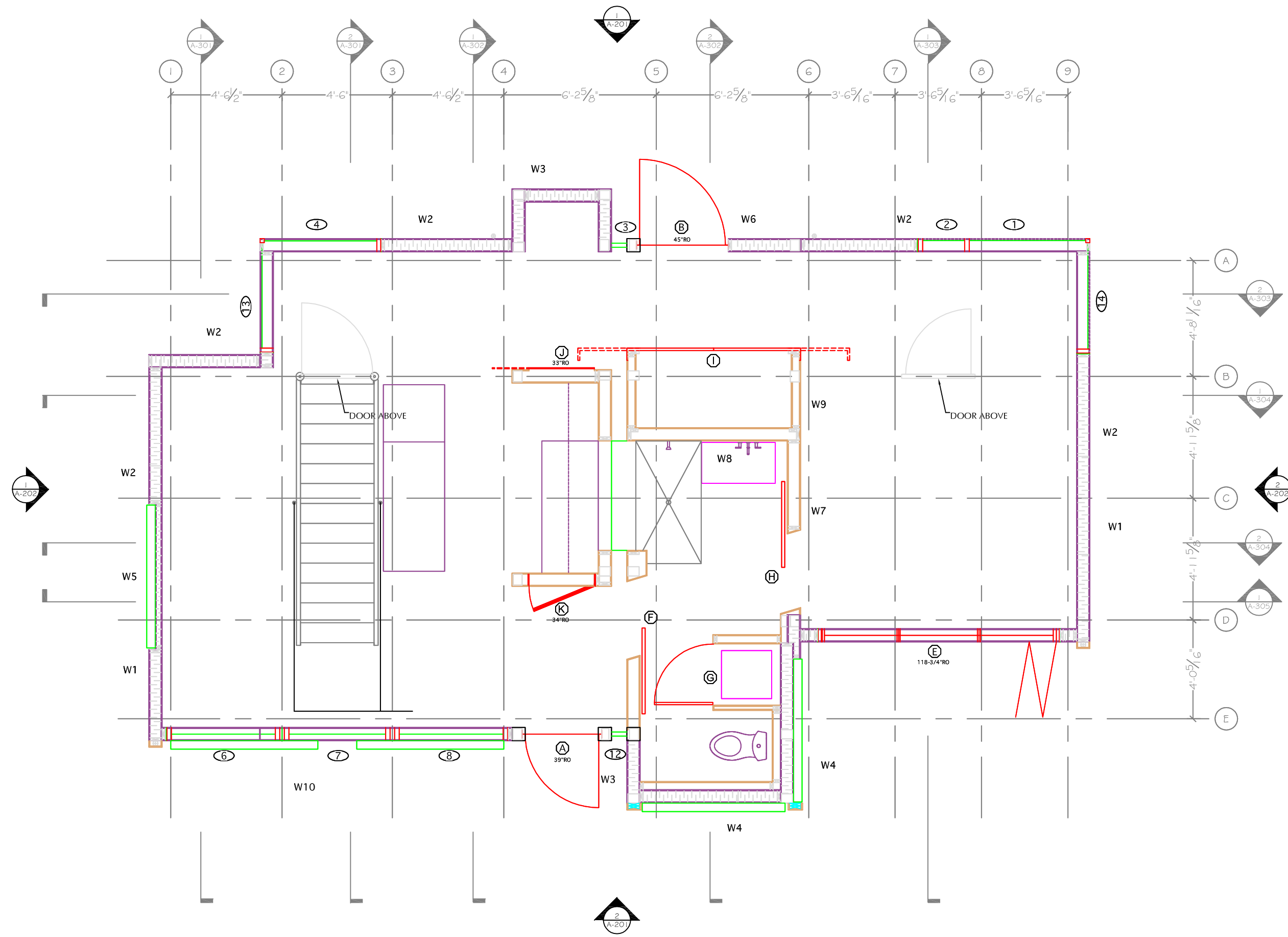
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DATE: 2009/06/01

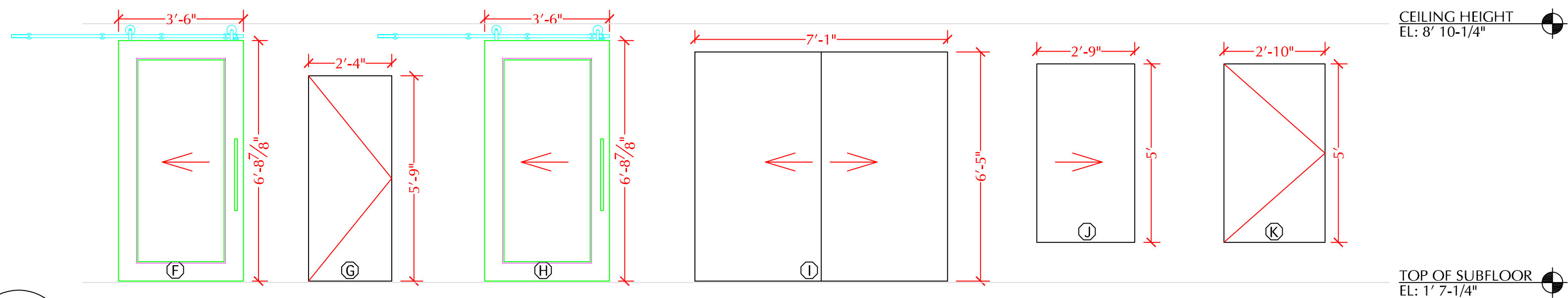
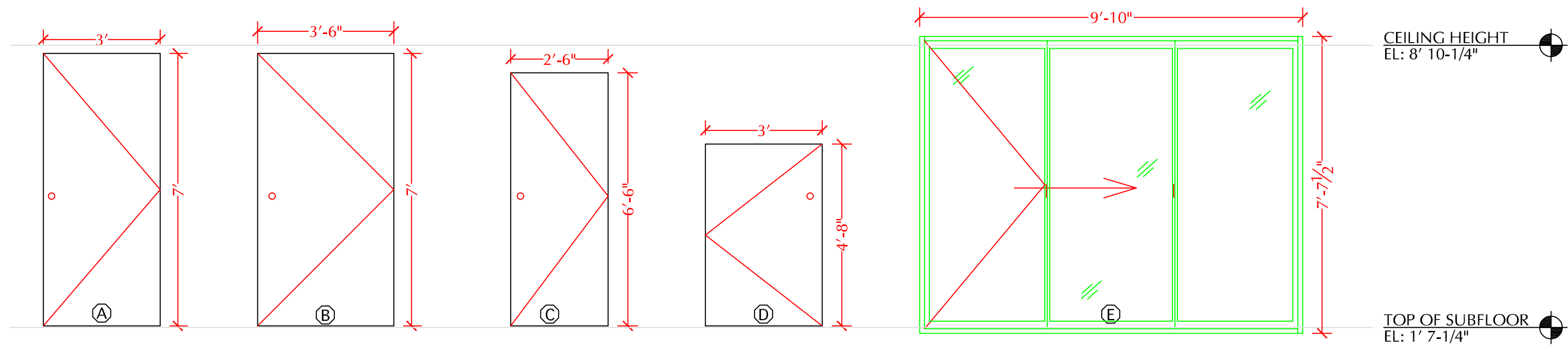
SCALE: AS NOTED

SHEET TITLE: WINDOW SCHEDULE

SHEET #: A-601



1 FLOOR PLAN
A-602 3/8" = 1' 0"

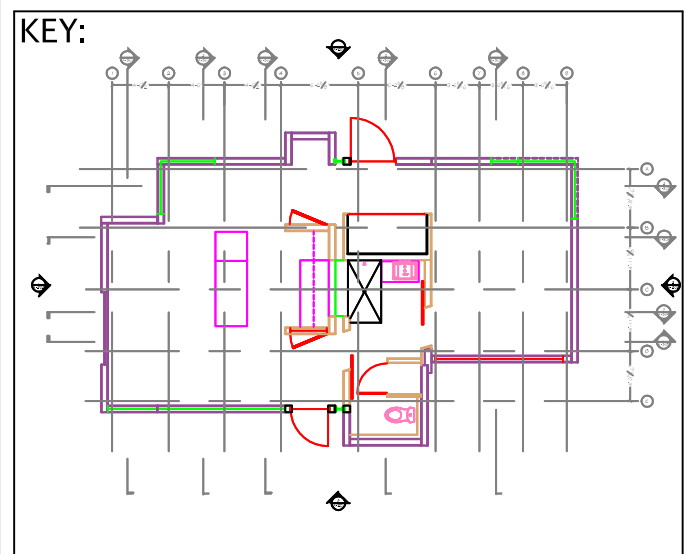


2 DOOR SCHEDULE
A-602 3/8" = 1' 0"

DOOR SCHEDULE							
NO	SIZE			MATL	TYPE	FINISH	NOTES
	W	HT	THK				
A	3' 0"	7' 0"	0' 2"	STEEL	EXT	TRAFFIC GREY-B	HINGED RIGHT
B	3' 6"	7' 0"	0' 2"	STEEL	EXT	TRAFFIC GREY-B	HINGED RIGHT
C	2' 6"	6' 6"	0' 2"	STEEL	EXT	DISTRESSED	HINGED RIGHT
D	3' 0"	4' 8"	0' 2"	STEEL	EXT	DISTRESSED	HINGED RIGHT
E	9' 10"	7' 7-1/2"	0' 3"	GLASS / ALUMINIUM	BI-FOLD EXT	TRAFFIC GREY-B	
F	3' 6"	6' 8"	0' 1-1/2"	WOOD / GLASS	BARN-INT	DOUGLAS FIR	SLIDE TO THE RIGHT TO OPEN
G	2' 4"	5' 9"	0' 2"	WOOD	INT	DOUGLAS FIR	POCKET DOOR SLIDE HINGED RIGHT
H	3' 6"	6' 8"	0' 1-1/2"	WOOD / GLASS	BARN-INT	DOUGLAS FIR	SLIDE TO THE RIGHT TO OPEN
I	7' 1"	6' 5"	0' 1-1/2"	STONE	DBL-SLIDE INT	RUNDLE STONE	SLIDE AWAY FROM CENTRE
J	2' 9"	5' 0"	0' 1-1/2"	ART	SLIDE-INT	CANVAS	SLIDE TO THE RIGHT TO OPEN
K	2' 10"	5' 0"	0' 1-1/2"	STONE	SWING-INT	RUNDLE STONE	HINGED RIGHT



ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION



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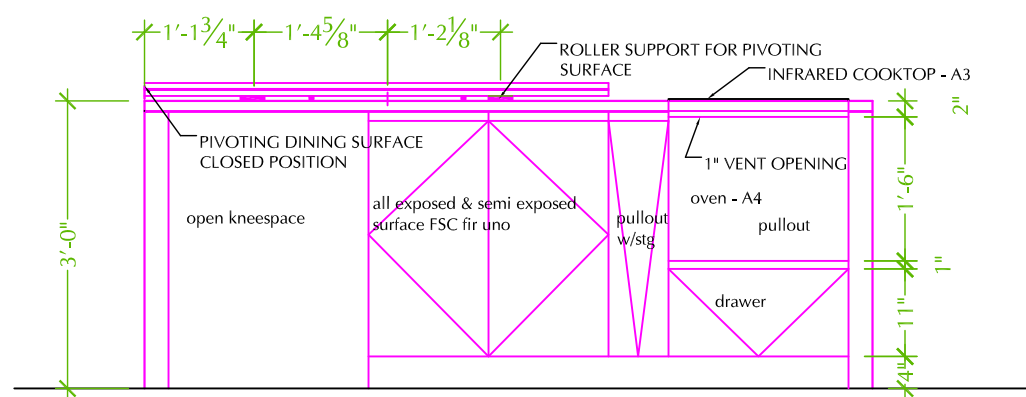
DRAWN: KM	CHECKED: TH
DATE: 2009/06/01	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: DOOR SCHEDULE	
SHEET #: A-602	



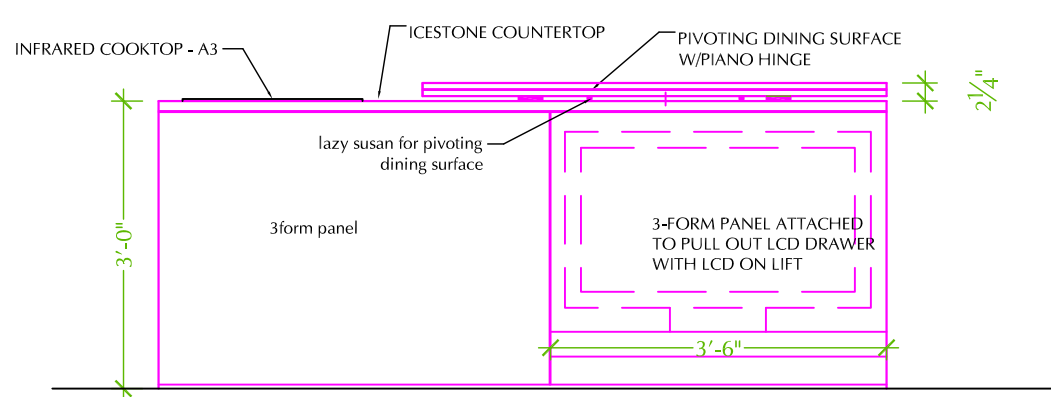
General
Landscape
Structural
Architectural

Interior

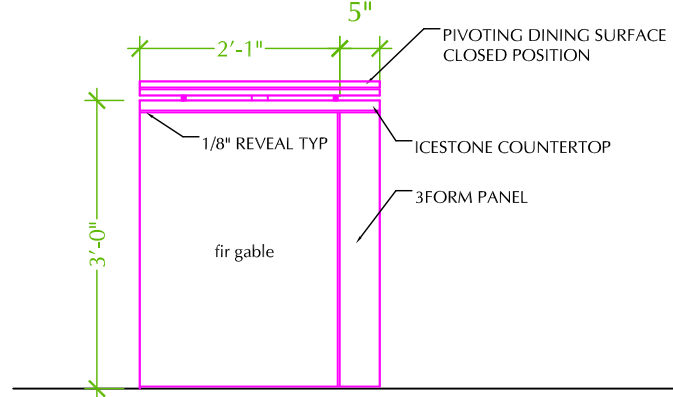
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



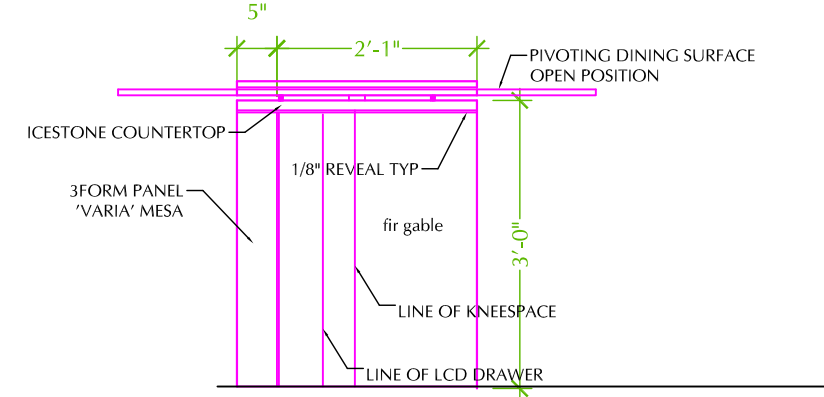
1 EAST ISLAND ELEV.
1-201 1/2" = 1' 0"



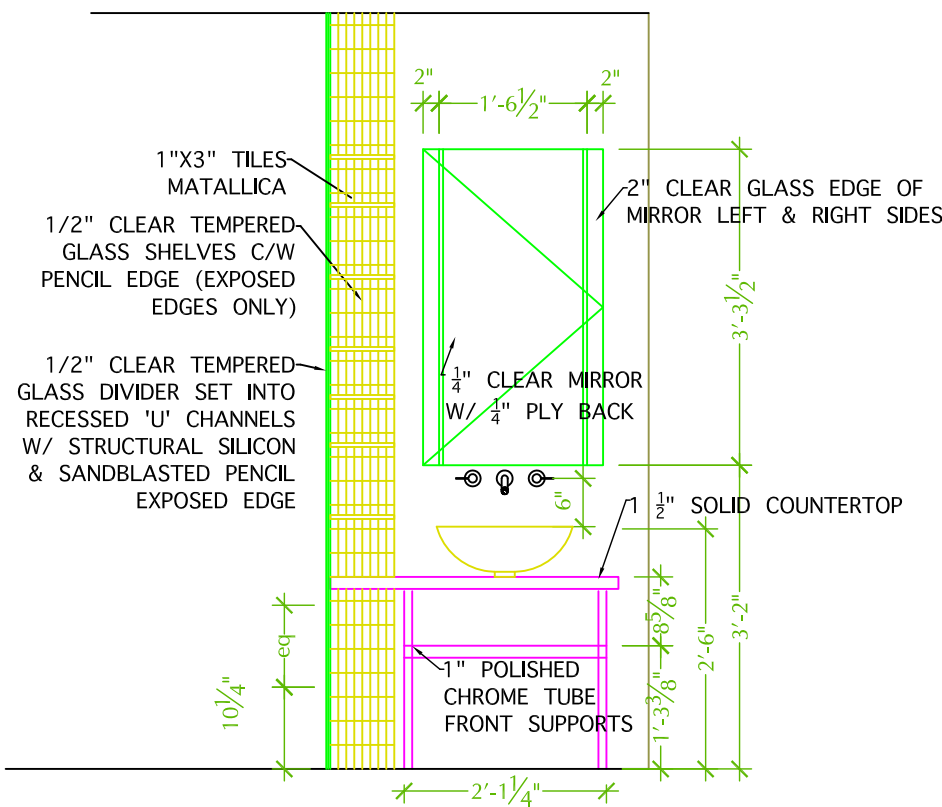
2 WEST ISLAND ELEV.
1-201 1/2" = 1' 0"



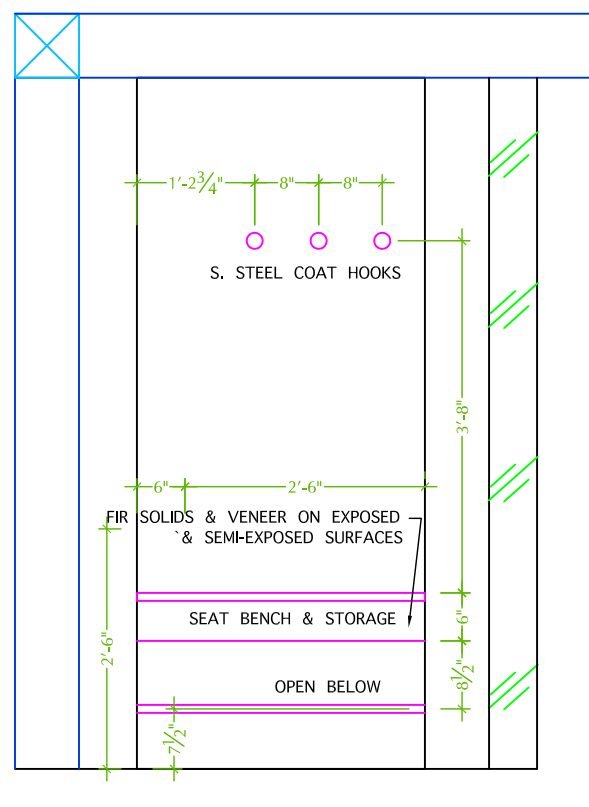
3 NORTH ISLAND ELEV.
1-201 1/2" = 1' 0"



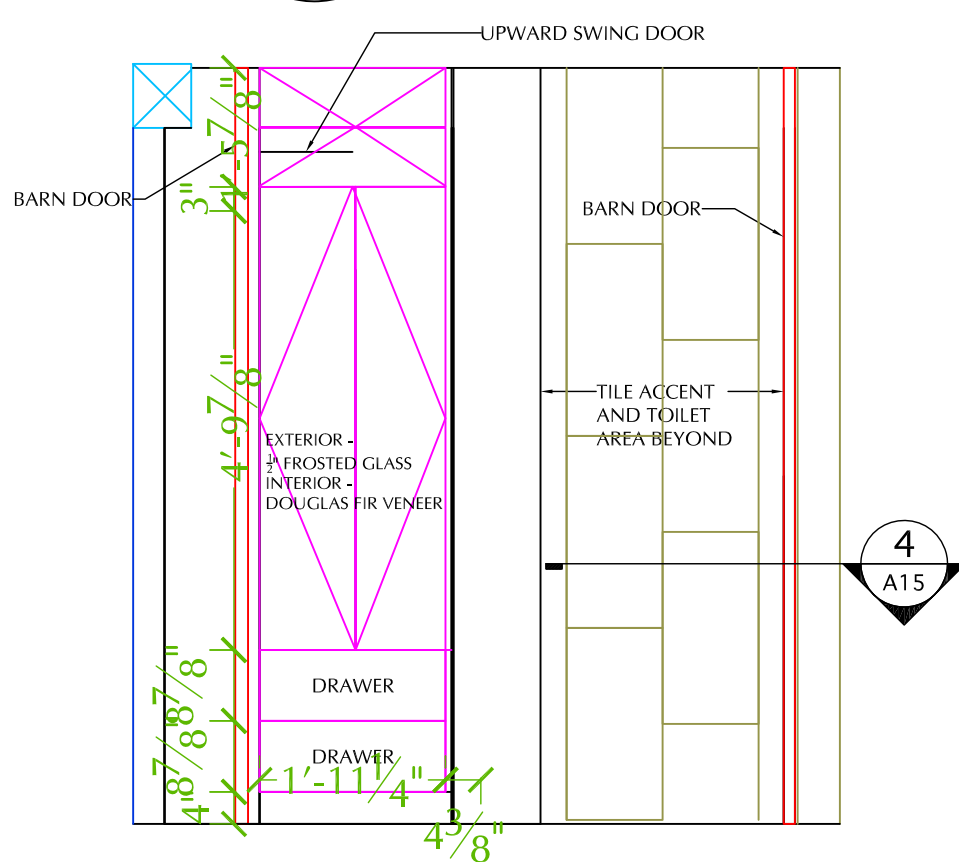
4 SOUTH ISLAND ELEV.
1-201 1/2" = 1' 0"



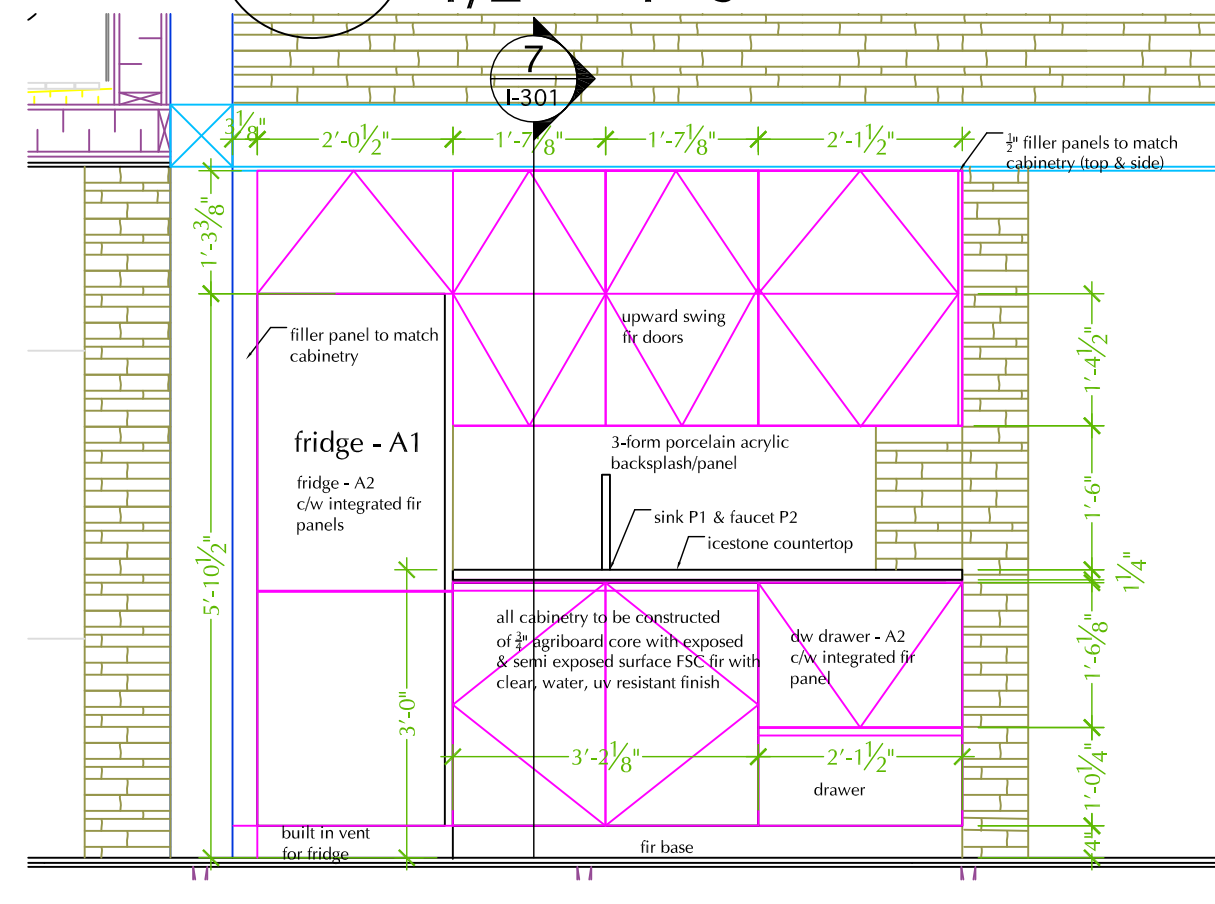
5 BATHROOM VANITY ELEV.
1-201 1/2" = 1' 0"



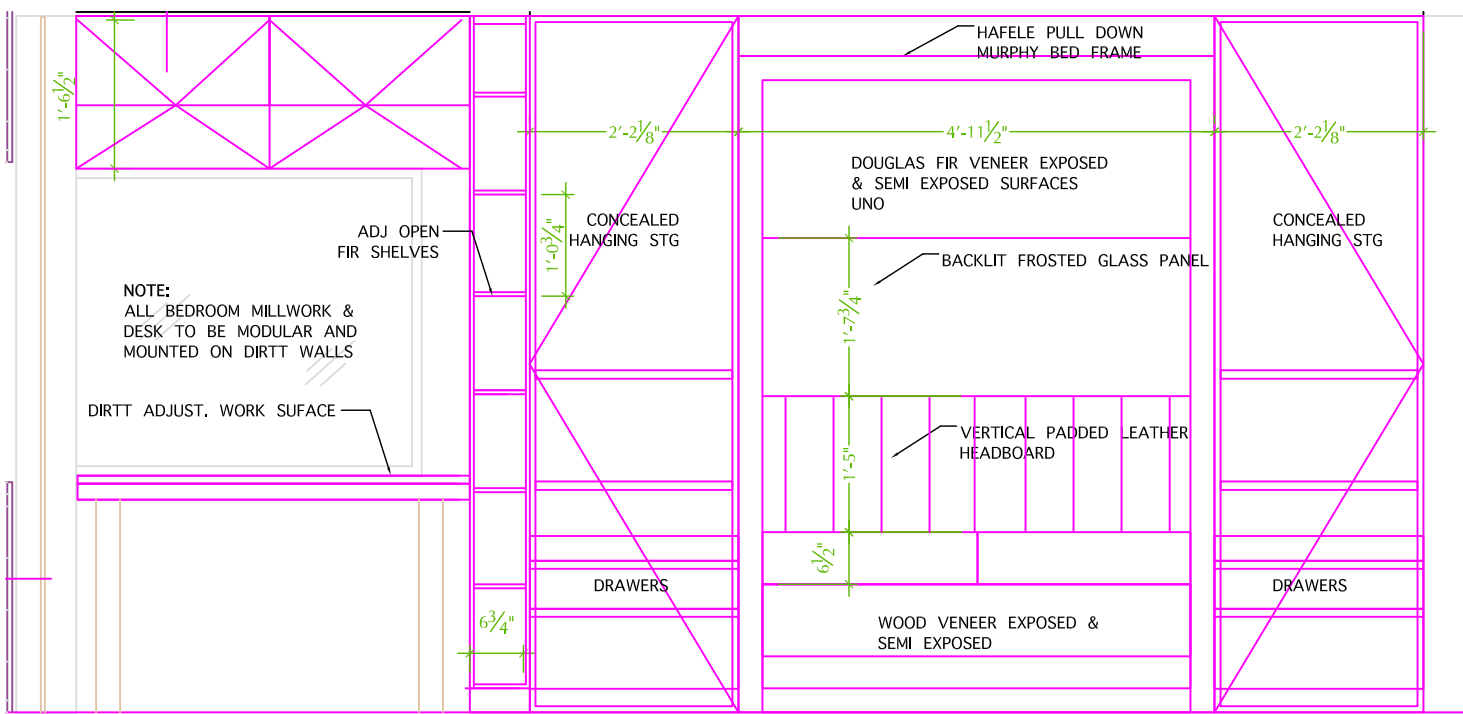
6 NORTH CLOSET ELEV.
1-201 1/2" = 1' 0"



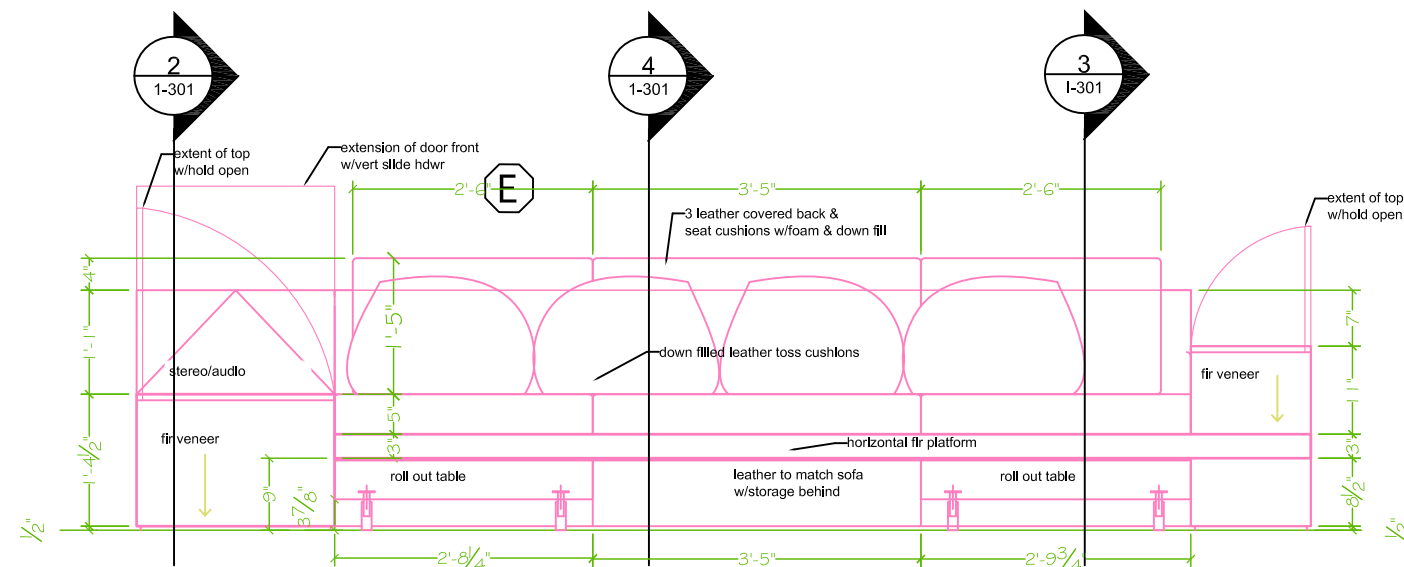
7 BATHROOM STORAGE ELEV.
1-201 1/2" = 1' 0"



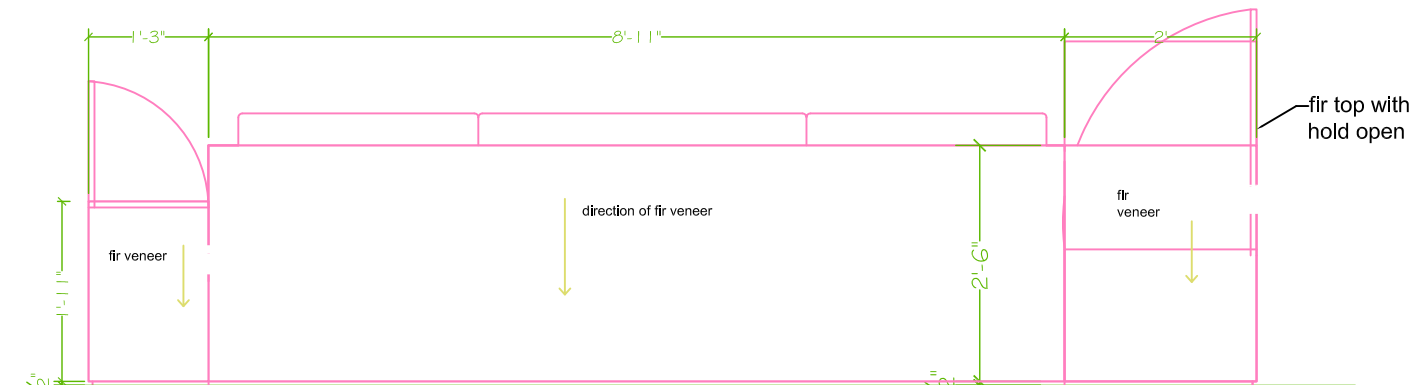
8 KITCHEN ELEV.
1-201 1/2" = 1' 0"



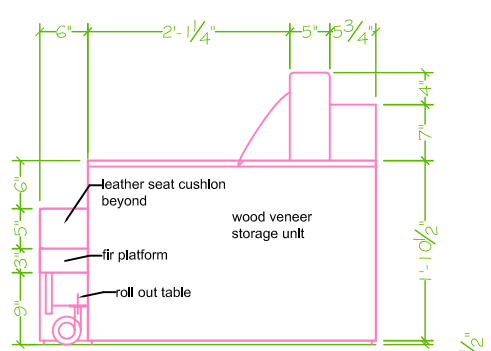
9 BEDROOM MILLWORK ELEV.
1-201 1/2" = 1' 0"



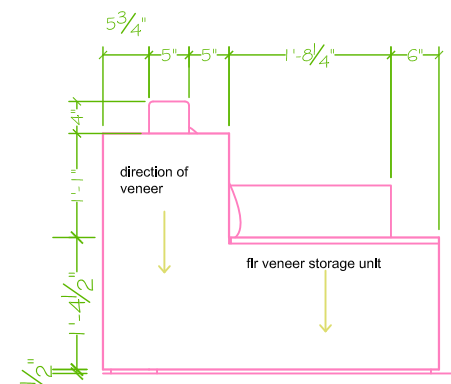
10 FRONT COUCH ELEV.
1-201 1/2" = 1' 0"



11 BACK COUCH ELEV.
1-201 1/2" = 1' 0"

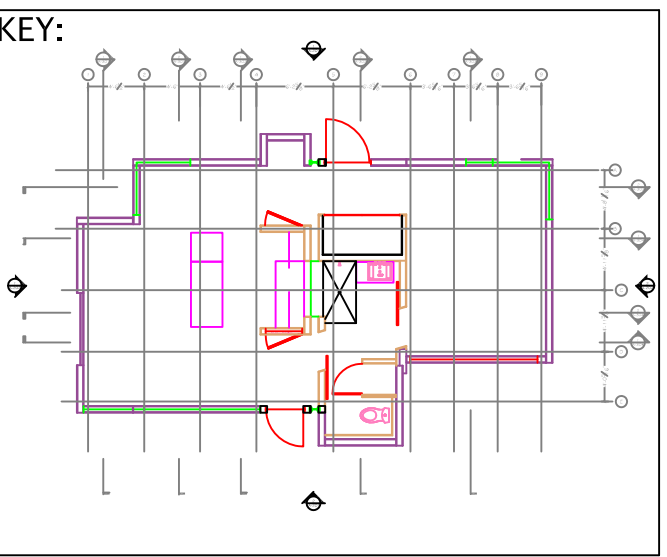


12 SIDE COUCH ELEV.
1-201 1/2" = 1' 0"



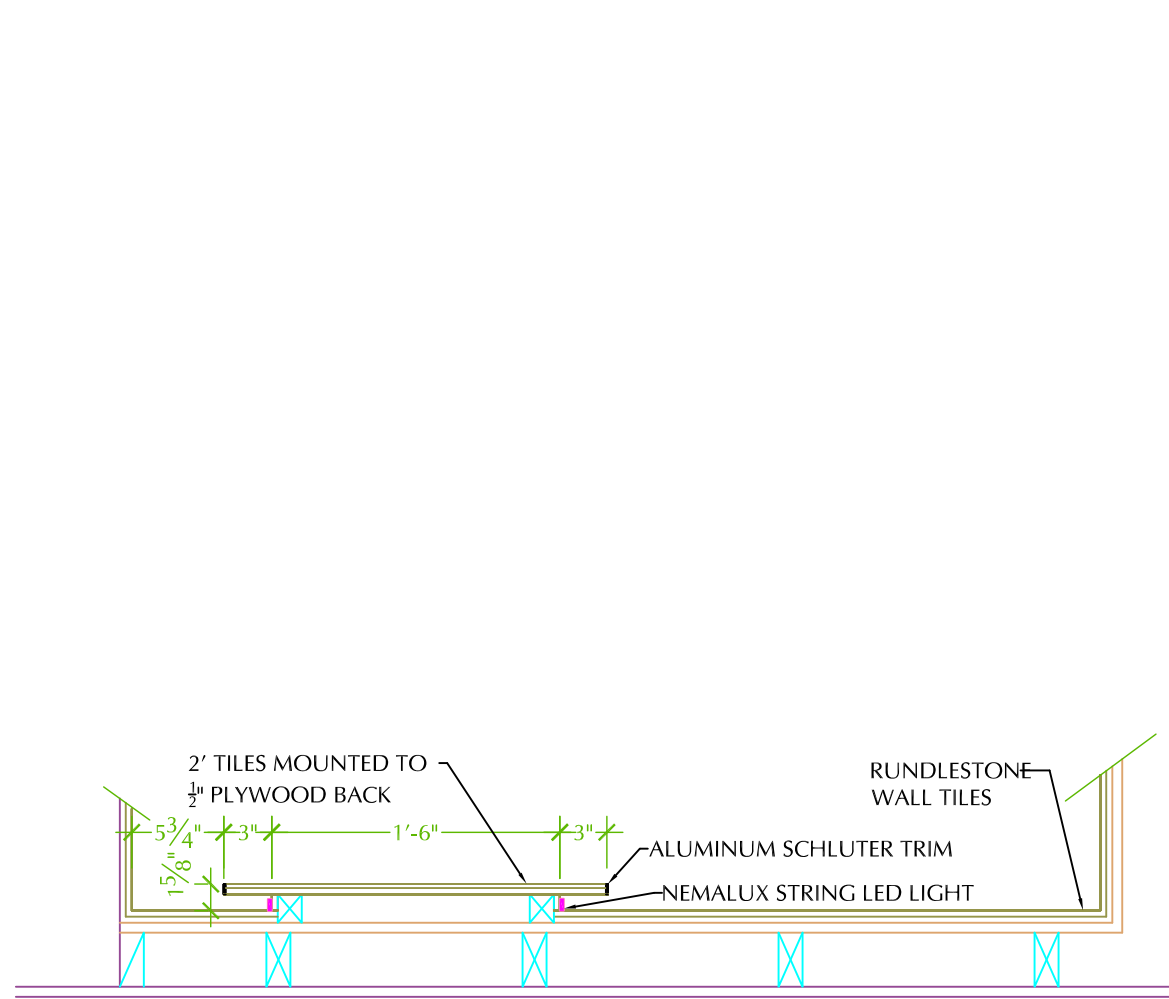
13 SIDE COUCH ELEV.
1-201 1/2" = 1' 0"

ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION



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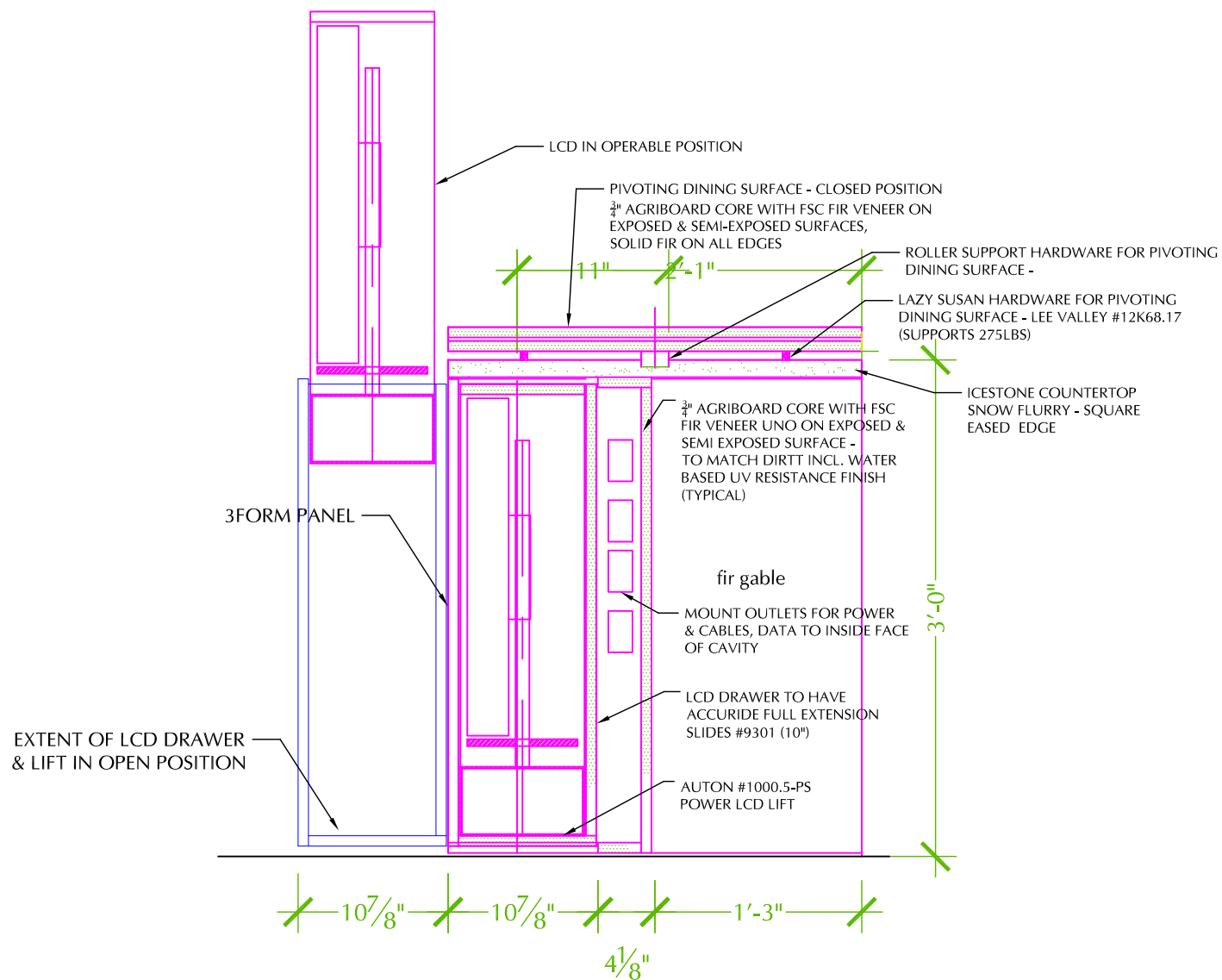
DRAWN: WN	CHECKED: KM
DATE:	2009/06/02
SCALE:	1/2" = 1' 0"
SHEET TITLE:	INTERIOR ELEVATIONS
SHEET #:	1-201



1
I-301

TILE FEATURE

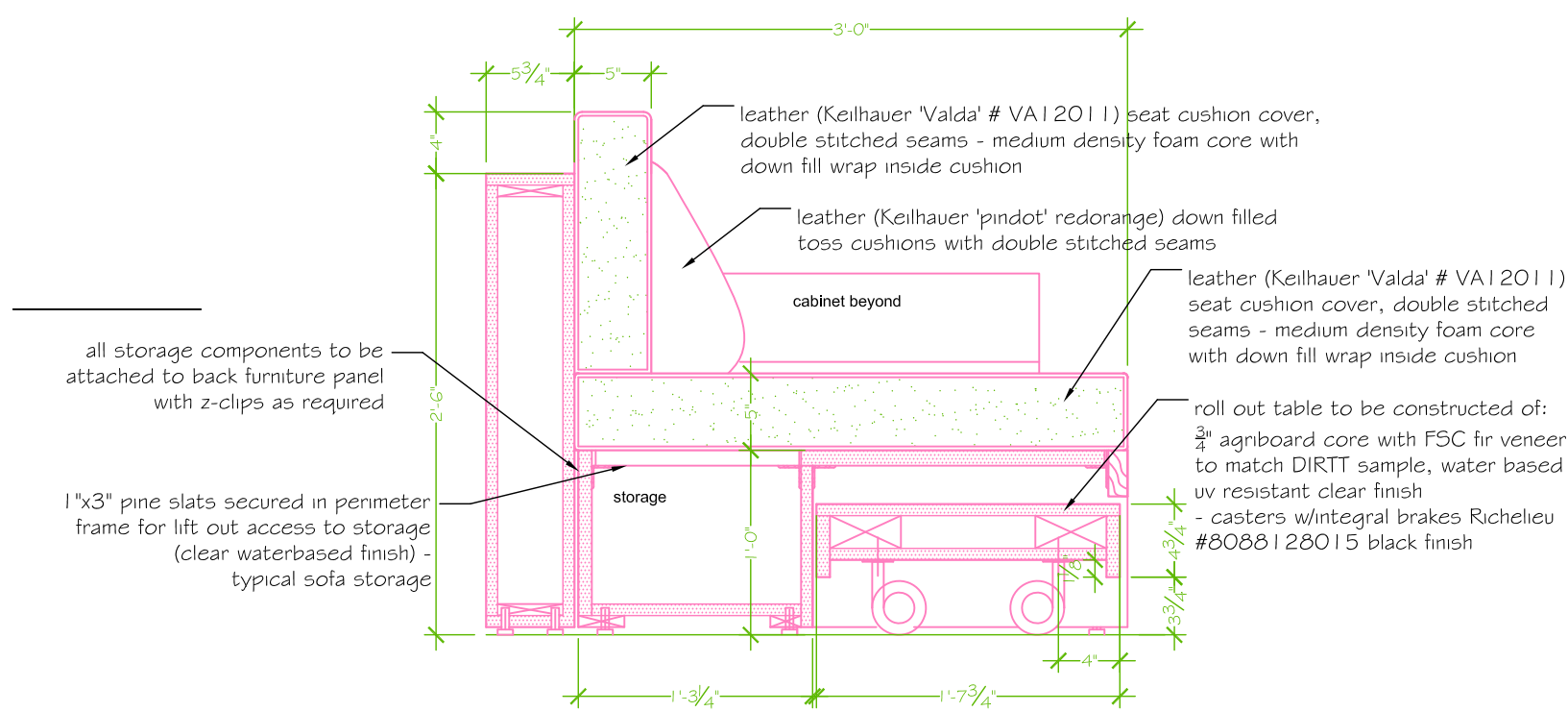
1/2" = 1' 0"



2
I-301

ISLAND SECTION

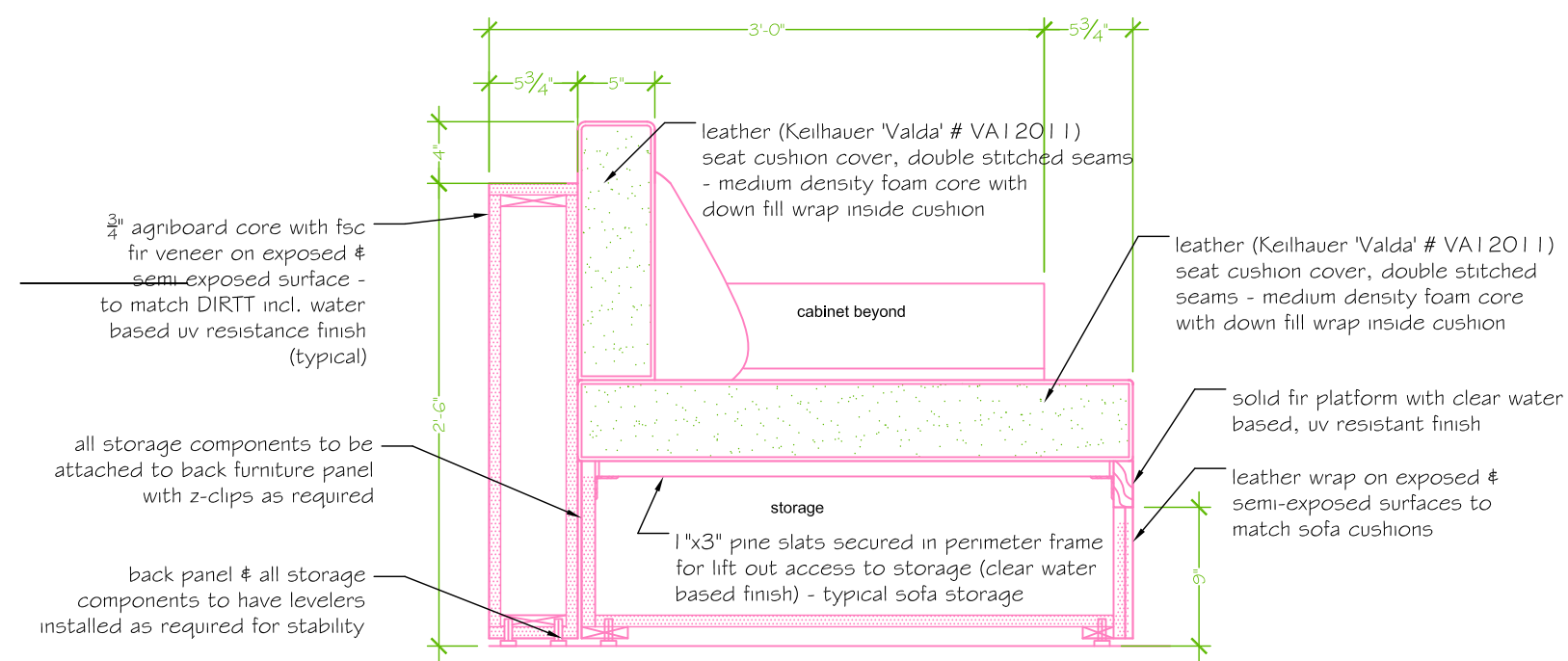
1/2" = 1' 0"



3
I-301

SOFA SECTION

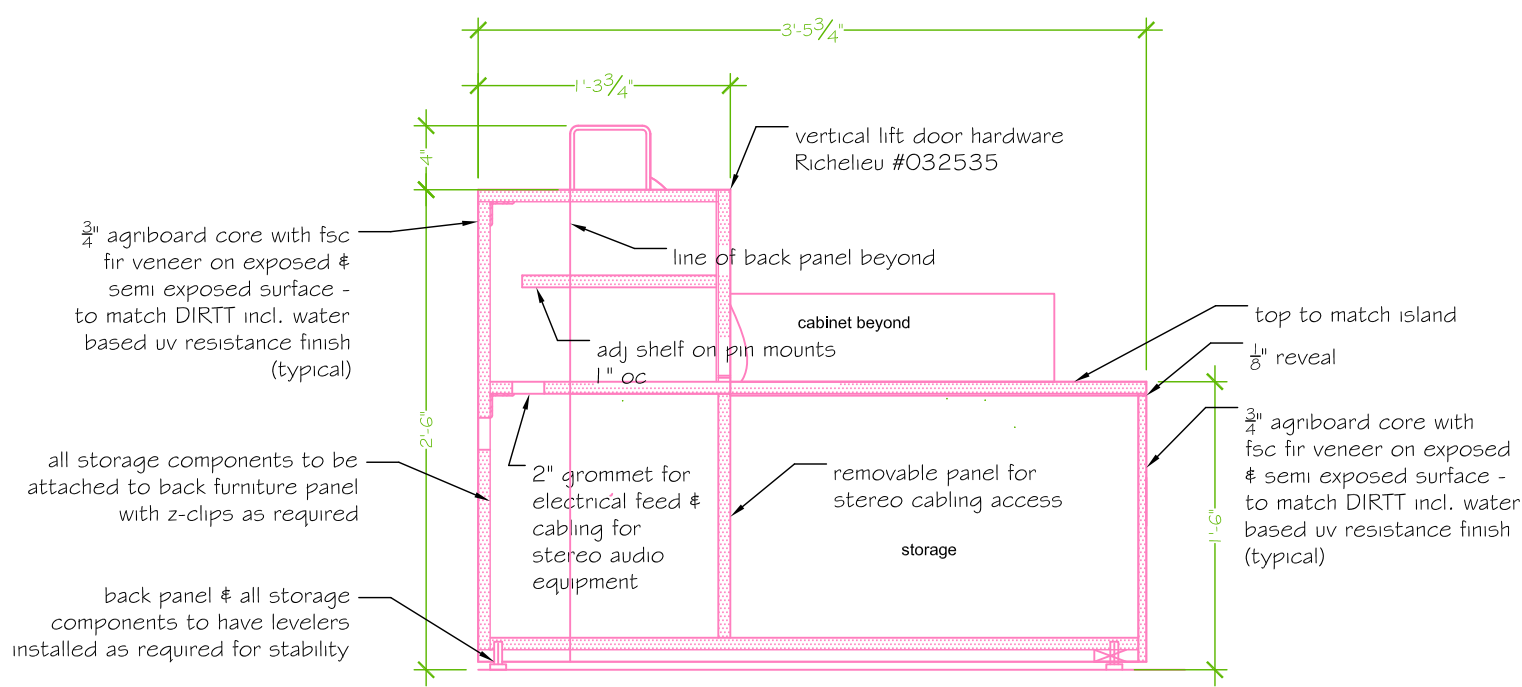
1/2" = 1' 0"



4
I-301

SOFA SECTION

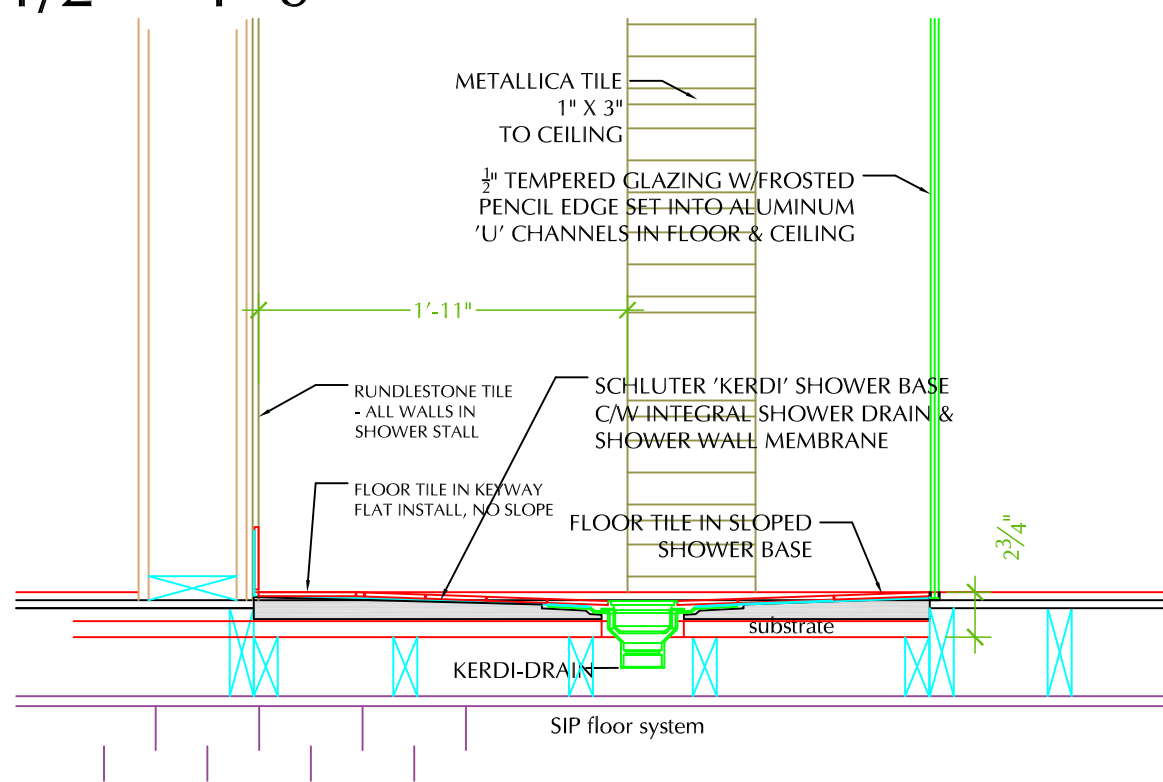
1/2" = 1' 0"



5
I-301

SOFA SECTION

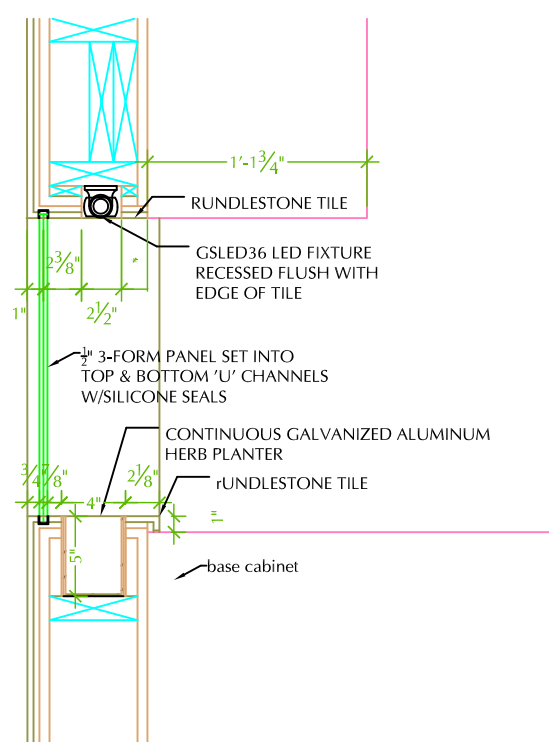
1/2" = 1' 0"



6
I-301

SHOWER BASE

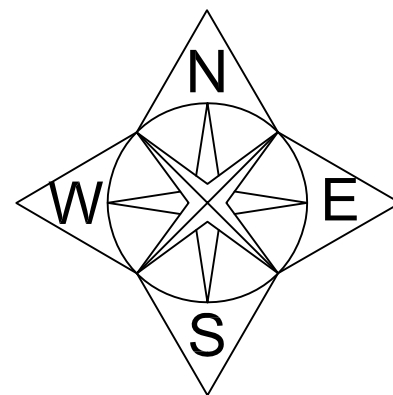
1/2" = 1' 0"



7
I-301

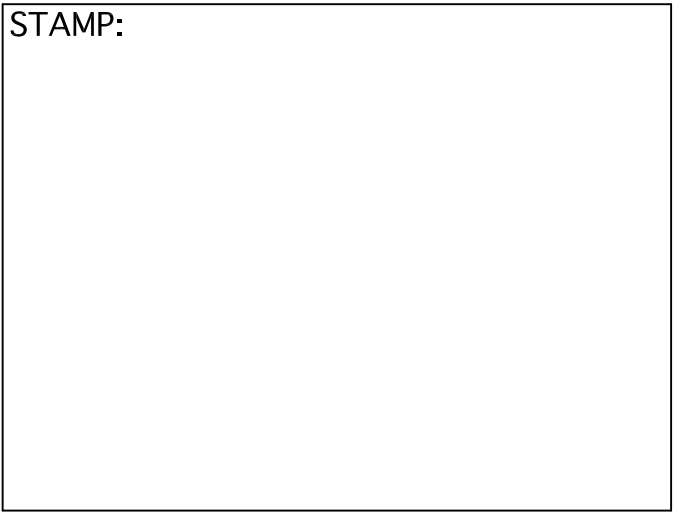
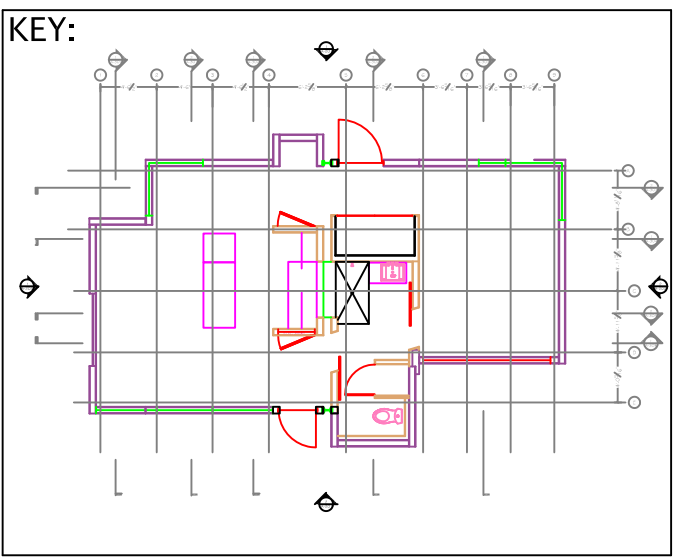
KITCHEN BACK SPLASH

1/2" = 1' 0"



ISSUED DATES	
DATE:	DESCRIPTION

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DATE:	DESCRIPTION



DRAWN:	WN	CHECKED:	KM
DATE:	2009/06/02		
SCALE:	1/2" = 1' 0"		
SHEET TITLE:	INTERIOR SECTIONS		
SHEET #:	I-301		

SHEET #: I-401

APPLIANCE SCHEDULE						
ITEM	MANUFACTURER	SUPPLIER	MODEL NO.	COLOUR	DIMENSIONS	NOTES
FRIDGE	LIEBHERR	TRAIL APPLIANCES	HC1011	N/A	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	FULLY INTEGRATED
OVEN	MIELE	TRAIL APPLIANCES	H4080BM	STANDARD	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	MICROWAVE, CONVECTION & STANDARD OVEN
INDUCTION COOK-TOP	AEG	TRAIL APPLIANCES	68001K-MN	BLACK	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	
SINGLE DISHDRAWER	FISHER & PYCKEL	TRAIL APPLIANCES	DD24SI	N/A	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	FULLY INTEGRATED
AXXIS COMPACT FRONT LOADING WASHER	BOSCH	TRAIL APPLIANCES	WFL2090UC	WHITE	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	
AXXIS VENTED DRYER	BOSCH	TRAIL APPLIANCES	WTV76100CN	WHITE	SEE MANUFACTURER'S SPEC SHEET FOR ROUGH-IN	

FINISH SCHEDULE NOTES
REFER TO DIRTT SHOP DRAWINGS FOR PLACEMENT & INSTALLATION
ALL FLOORING TO BE INSTALLED BEFORE: DIRTT WALLS, BEDROOM MILLWORK, BATHROOM VANITY & SOFA ARE INSTALLED
ENTIRE CORE MODULE FLOORING IS CT1
ENTIRE LIVING ROOM, KITCHEN & BEDROOM MODULE FLOORING IS LVT1

FINISH SCHEDULE LEGEND							
SYMBOL	TYPE	SIZE	THICKNESS	MANUFACTURER/SUPPLIER	MODEL NAME	MODEL #	COLOUR
LVT	LUXURY VINYL TILE	4' X 36"	4.5mm	TO MARKET	OZOLOC ETCHINGS	TM6R654	N/A
RDSC	RUNDLE STONE CLADDING	VARRIES	½"	TUNDER STONE QUARRIES	N/A	N/A	N/A
CT1	CERAMIC TILE	12" X 24"	?	AMES TILE & STONE	METALLICA SERIES	MEBR1224	BRONZE
CT2	CERAMIC TILE	1" X 3"	?	AMES TILE & STONE	METALLICA SERIES	MEBR13	BRONZE
DRT	DIRTT WALL	SEE SHOP DRAWINGS	SEE DIRTT SHOP DRAWINGS	DIRTT	SEE DIRTT SHOP DRAWINGS	SEE DIRTT SHOP DRAWINGS	SEE DIRTT SHOP DRAWINGS
GWB	GYPSUM WALL BOARD	STANDARD	½"	N/A	N/A	N/A	N/A

FINISH SCHEDULE										
MODULE	ROOM NAME	WALL				FLOOR	BASE	CEILING		notes
		NORTH	EAST	SOUTH	WEST			HEIGHT	MAT'L /FINISH	
LIVING ROOM	LIVING ROOM	DRT & GWB	-	DRT	DRT	LVT	DRT	7'-3" TO VAULT	GWB	REFER TO DIRTT SHOP DRAWINGS FOR SIZE AND INSTALLATION
KITCHEN	KITCHEN1	DRT	-	DRT	DRT	LVT	DRT	7'-3"	GWB	REFER TO DIRTT SHOP DRAWINGS FOR SIZE AND INSTALLATION. REFER TO WALL TYPES FOR RDSC LOCATIONS
CORE	NORTH ENT.	RDSC	-	RDSC	-	CT1	RDSC	7'-3"	GWB	
CORE	MECH. ROOM	GWB PT1	GWB PT1	GWB PT1	GWB PT1	CT1	CT1	7'-3"	GWB	
CORE	KITCHEN2	RDSC	RDSC	RDSC	-	CT1	RDSC	7'-3"	GWB	
CORE	BATHROOM	RDSC & CT1	RDSC	RDSC & CT1	RDSC	CT1 & CT2	RDSC	7'-3"	GWB	CT2 IN SHOWER, CT1 LINE UP WITH SOUTH WALL. CT1, CT1 ON NORTH WALL. FLUSH WITH RDST & CENTERED ON SHOWER HEAD
CORE	SOUTH ENT.	RDSC	RDSC	RDSC	-	CT1	RDST	7'-3"	GWB	
BEDROOM	BEDROOM/OFFICE	DRT	DRT	DRT	-	LVT	DRT	7'-3"	GWB	REFER TO DIRTT SHOP DRAWINGS FOR SIZE AND INSTALLATION

MILLWORK FINISH SCHEDULE						
TYPE	THICKNESS	MANUFACTURER	SUPPLIER	MODEL NAME	COLOUR	NOTES
KITCHEN COUNTER TOP	1.25 INCHES	ICESTONE	MILLWORKER	N/A	SNOWFLURRY	PENCIL PROFILE EDGE
BATHROOM COUNTER TOP	1.25 INCHES	SQUAK MOUNTAIN STONE	MILLWORKER	BATHROOM SIZE: 22" X 37"	THUNDER	
MILLWORK DOORS & GABLES	VARIES, AS PER MILLWORKERS	AS PER MILLWORKERS	MILLWORKER	DOUGLAS FIR VENEER & AGRIBOARD CORE	CLEAR, WATER BASED	
DOOR ACRYLIC PANELS	0.25 INCHES	3-FORM	MILLWORKER	VARIA Ecoresin	PORCELAIN	
UPHOLSTERY	N/A	KEILHAUER	MILLWORKER	VALDA	VA12011	
ISLAND FRONT ACRYLIC PANEL	0.25 INCHES	3-FORM	MILLWORKER	VARIA Ecoresin	MESA	

PLUMBING FIXTURE SCHEDULE							
TAG NO.	PRODUCT CODE	PRODUCT DESCRIPTION	MANUFACTURER	FINISH	LOCATION	MOUNTING HEIGHT	NOTES
F-1	K-T944-4-CP	KOHLER STILLNESS WALL MOUNT	KOHLER	POLISHED CHROME	BATHROOM VANITY	WALL MOUNT	TO BE MOUNTED ON CENTER LINE OF VESSEL SINK
	MT302X-CPB	1-1/2 x 1-1/2 P-TRAP	MOUNTAIN PLUMBING PRODUCTS	POLISHED CHROME	BATHROOM VANITY	N/A	
F-2	990000 square	XEN ABOVE COUNTER	AMERICAN STANDARD	321 FROSTED	BATHROOM VANITY	REFER TO MILLWORK SHOP DRAWINGS FOR PLACEMENT ON VANITY TOP	
F-3	K-8030-CP	WATERTILE® RAIN OVERHEAD SHOWERING PANEL	KOHLER	POLISHED CHROME	BATHROOM SHOWER	FLUSH WITH FINISHED CEILING	
F-4	RP51032	CONTEMPORARY H2OKINETIC TECHNOLOGY® WATER EFFICIENT SHOWERHEAD	DELTA	CHROME	BATHROOM SHOWER	6'S" AFF	
F-5	RP37079	DELTA SHOWER ARM & FLANGE	DELTA	CHROME	BATHROOM SHOWER	6'S" AFF	CONNECTED TO F-4
F-6	K-T10941-4-CP	STILLNESS® STACKED VALVE TRIM	KOHLER	POLISHED CHROME	BATHROOM SHOWER	4' AFF, CENTERED ON F-4	
F-7	K-T10944-4-CP	TRANSFER VALVE TRIM	KOHLER	POLISHED CHROME	BATHROOM SHOWER	4'7" AFF, CENTERED ON F-4	
F-8	K-3588-0	ESCALE® TWO PIECE ELONGATED TOILET WITH SEAT - DUAL FLUSH	KOHLER	WHITE	BATHROOM	N/A	
F-9	K-6227-CP	KARBON ARTICULATING FAUCET	KOHLER	POLISHED CHROME	KITCHEN	ON CENTRE LINE OF F-9	
F-10	400429	PRECISION U 1 1/2	BLANCO	STAINLESS STEEL	KITCHEN	REFER TO MILLWORK SHOP DRAWINGS FOR PLACEMENT IN KITCHEN COUNTER TOP	

ISSUED DATES

DATE:	DESCRIPTION

REVISIONS

DATE:	DESCRIPTION

KEY:

STAMP:

DRAWN: WN

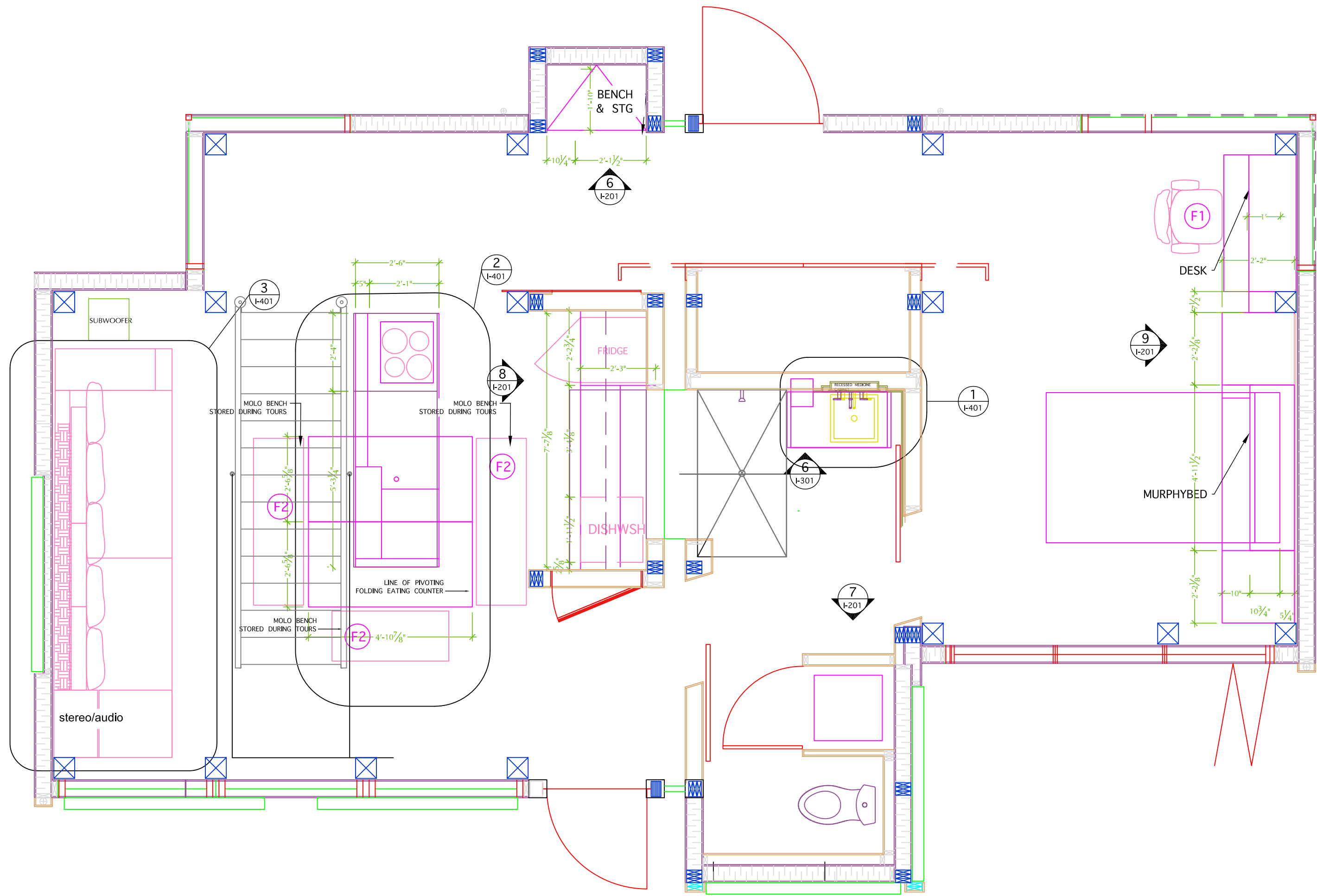
CHECKED: KM

DATE: 2009/6/02

SCALE: N.T.S

SHEET TITLE: INTERIOR SCHEDULES

SHEET #: I-601



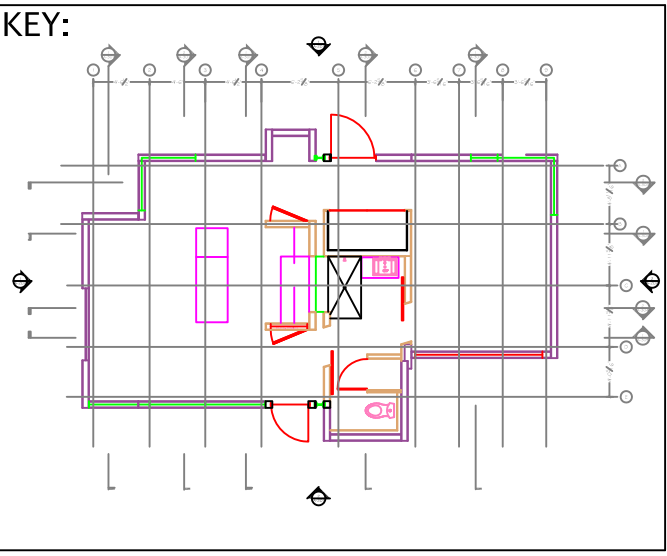
FURNITURE LEGEND						
TAG	MANUFACTURER	MODEL NAME/NO.	DIMENSIONS	COLOUR/PATTERN	QUANTITY	NOTES
F1	MOLO	FANNING STOOL	12" X 36"	WHITE TEXTILE	6	2 STACKED IN BENCH FORM FOR DINNER PARTY
F2	KEILHAUER	SGUG SYNCRO	26"W X 26"D X 40-46"H	DOT PATTERN, GINGER ZEST, ZSG04	1	

1
I-101

FLOOR FURNISHES
3/8" = 1' 0"

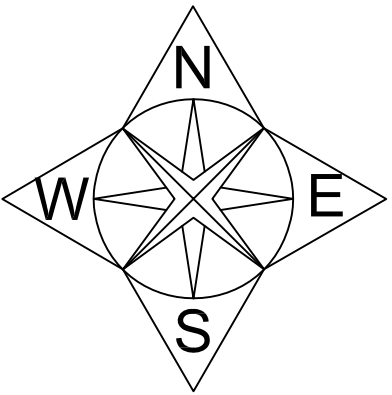
- GENERAL NOTES:
- ALL MILLWORK TO MEET AWMAC
 - ALL MILLWORK TO BE CONSTRUCTED OF FORMALDEHYDE FREE 3/4" AGRIBOARD 100% RECYCLED CORE UNO
 - ALL MILLWORK TO HAVE FSC CERTIFIED FIR VENEER & SOLIDS WHERE SPECIFIED
 - ALL WOOD MILLWORK TO HAVE UV CURED WATER BASED STAIN & SEAL

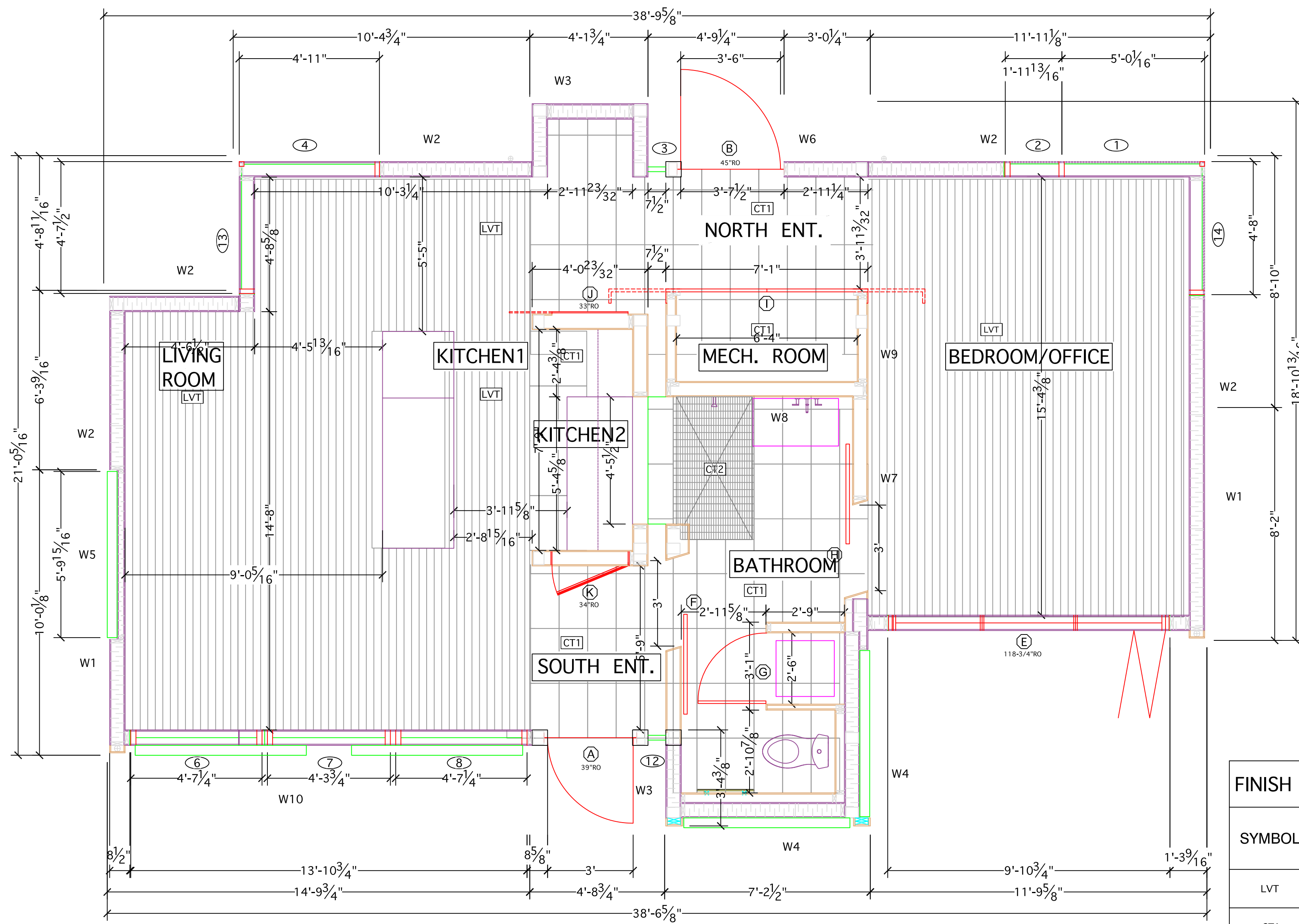
ISSUED DATES	
DATE:	DESCRIPTION
REVISIONS	
DATE:	DESCRIPTION



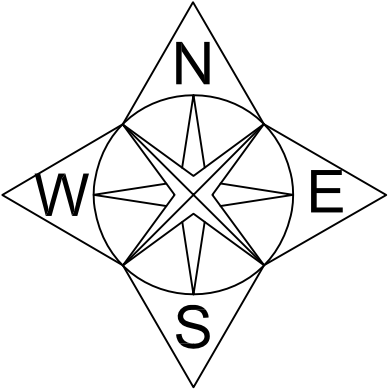
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DATE: 2009/06/02	
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SHEET TITLE: FURNISHES PLAN	
SHEET #: I-101	



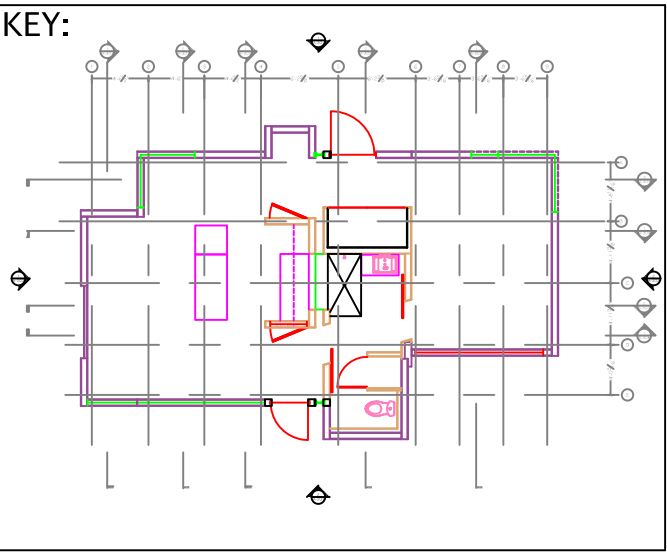


FINISH PLAN LEGEND	
SYMBOL	TYPE
LVT	LUXURY VINYL TILE
CT1	CERAMIC TILE 12 X 24
CT2	CERAMIC TILE 1 X 3



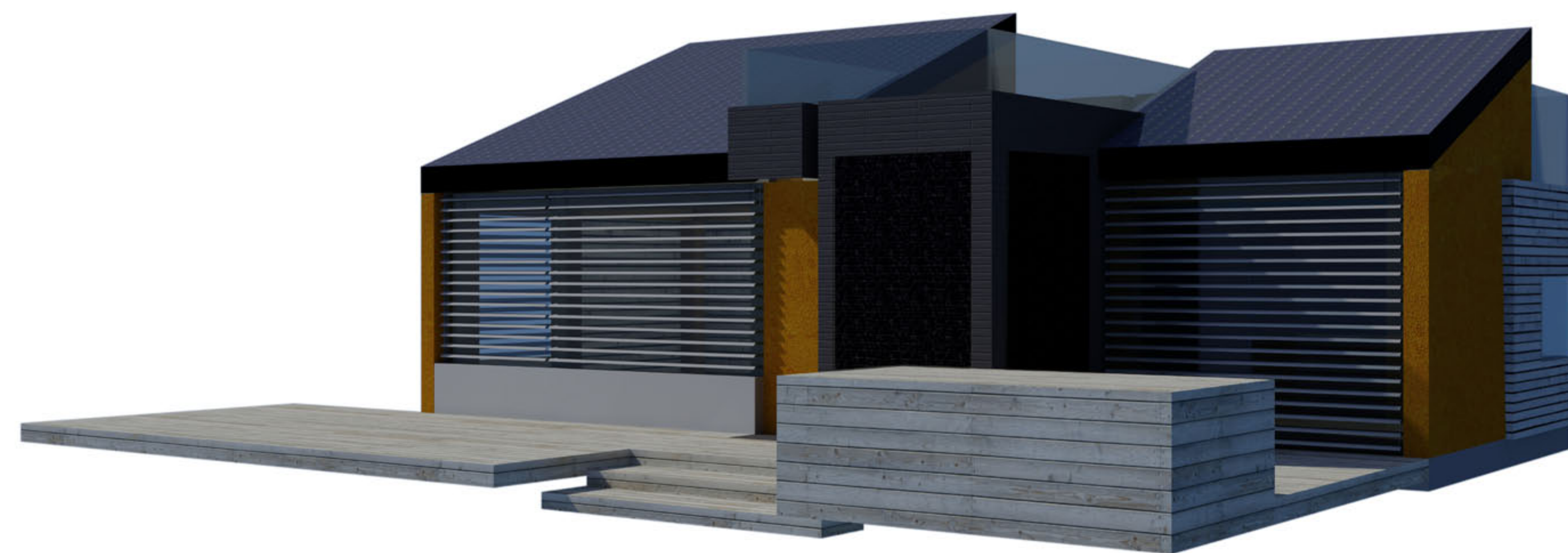
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I-102 FLOOR FINISHS PLAN
3/8" = 1' 0"

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REVISIONS	
DATE:	DESCRIPTION

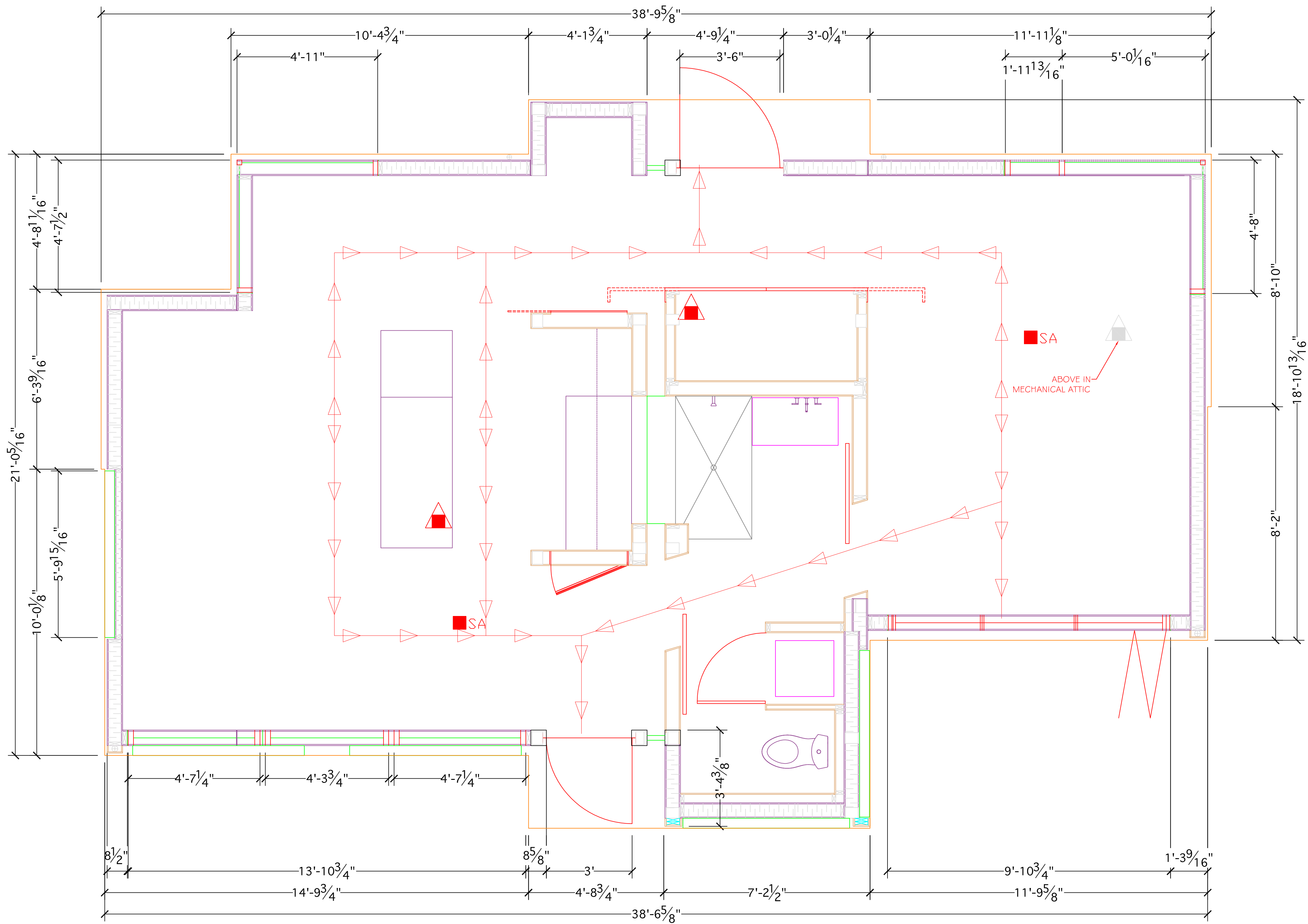


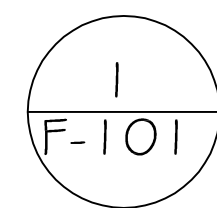
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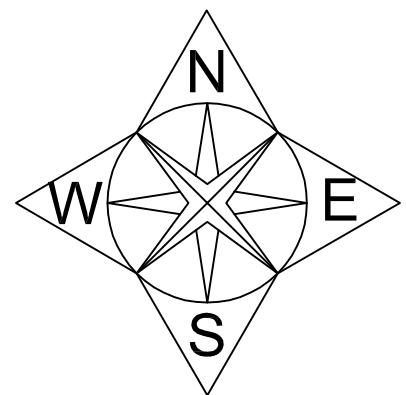
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SHEET TITLE: FLOOR FINISHES PLAN	
SHEET #: I-102	



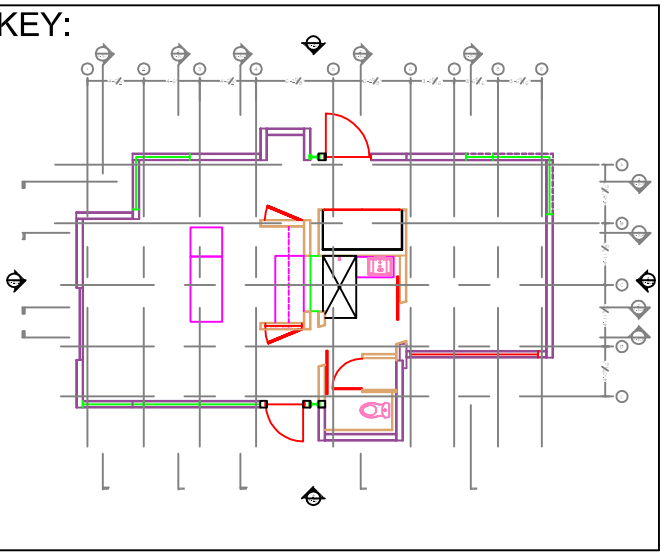
General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



 FIRE EGRESS
1/2" = 1' 0"

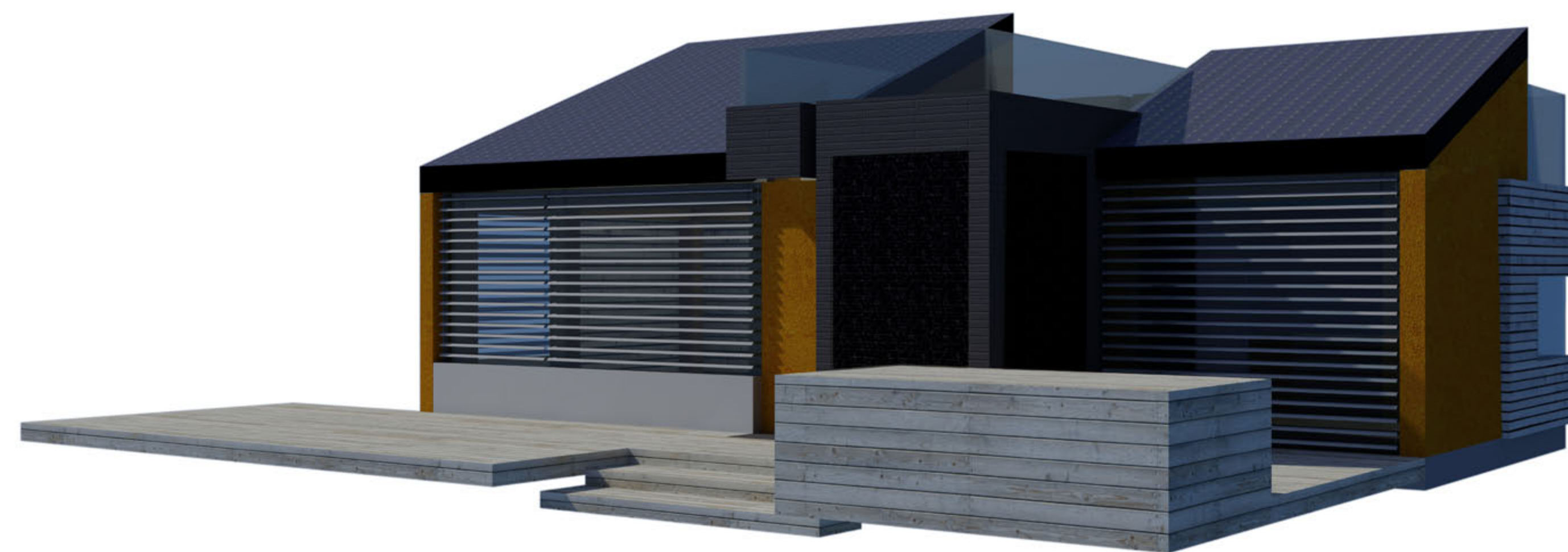


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DATE:	DESCRIPTION



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SCALE: 1/2" = 1' 0"	
SHEET TITLE: FIRE EGRESS PLAN	
SHEET #: F-101	



General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations

PIPING IDENTIFICATION AND SYMBOLS

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER PREHEAT
	SOLAR THERMAL WATER RETURN
	SOLAR THERMAL WATER SUPPLY
	HEAT PUMP WATER RETURN
	HEAT PUMP WATER SUPPLY
	LOAD WATER RETURN
	LOAD WATER SUPPLY
	SANITARY DRAIN (BELOW GRADE OR FLOOR)
	VENT
	SANITARY VENT
	PUMP (REFER TO SCHEDULE)
	PRESSURE & TEMP. RELIEF / SAFETY VALVE
	UNION CONNECTION
	FLOW METER
	BACKFLOW PREVENTION VALVE

	FLOOR DRAIN
	NON-FREEZE HOSE BIBB
	PIPE CAP
	PIPE BREAK
	FLOW ARROW
	PIPING ELBOW DOWN
	PIPING ELBOW UP
	PIPING TEE
	SANITARY BRANCH
	STANDARD CLEAN-OUT IN LINE END OF RUN
	PIPING SLOPE
	FIXTURE TRAP
	BALANCING VALVE
	CONTROL VALVE
	MIXING VALVE
	EQUIPMENT TAG (REFER TO SCHEDULE)
	PLUMBING SECTION DESIGNATION
	FOUND ON DRAWING
	TAKEN FROM DRAWING
	KEY NOTES

GENERAL NOTES:

FOR ALL PRESSURIZED SYSTEMS
AUTOMATIC VENTS TO BE FIELD
INSTALLED AS REQUIRED.

SOLAR THERMAL PIPING TO BE
INSULATED W/TOTALFLEX HAVING
3/4" THICKNESS.

IN-FLOOR DOMESTIC HOT WATER LINES
TO BE INSULATED W/SPRAYED IN
URETHANE FOAM.

ABOVE FLOOR DOMESTIC HOT WATER
LINES TO BE INSULATED W/WRAP
INSULATION (TYPICAL).

ALL PRESSURIZED SYSTEMS AND
TANKS TO USE WATER DURING
COMPETITION.

SOLAR THERMAL SYSTEM IS NOT
SUBJECT TO VACUUM CONDITIONS
AND DOES NOT HAVE VACUUM
RELIEF.

ALL PERMANENT PUMPS TO HAVE
FLANGED CONNECTIONS WITH
ISOLATION VALVES.

TEMPERATURE SENSORS TO BE
INSTALLED IN 1/2" MIP THERMOWELLS
WITH 1" INSERTION DEPTH IN ALL
NON-SOLAR THERMAL SYSTEMS.
LOCATIONS TO BE COORDINATED AS
SHOWN ON M-103. THERMOWELLS TO
BE PACKED WITH THERMAL
COMPOUND.

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SOLAR DECATHLON

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DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

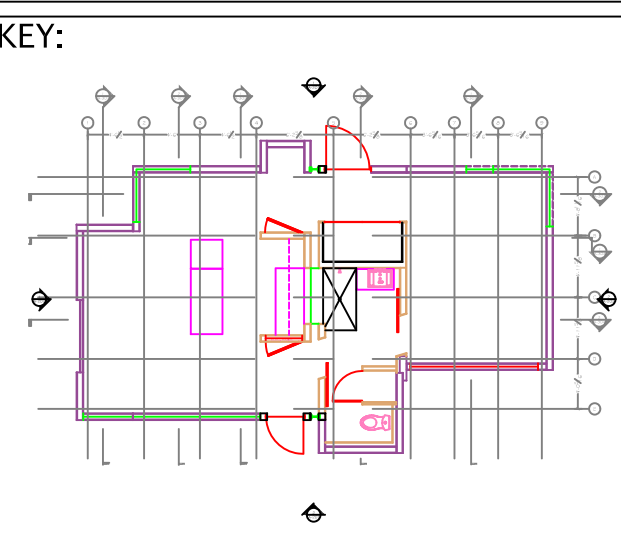
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DATE:	DESCRIPTION

KEY:

STAMP:

DRAWN:	CHECKED:
HOB	MG
DATE:	2009/05/30
SCALE:	N.T.S
SHEET TITLE:	PLUMBING LEGEND
SHEET #:	P-001

ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



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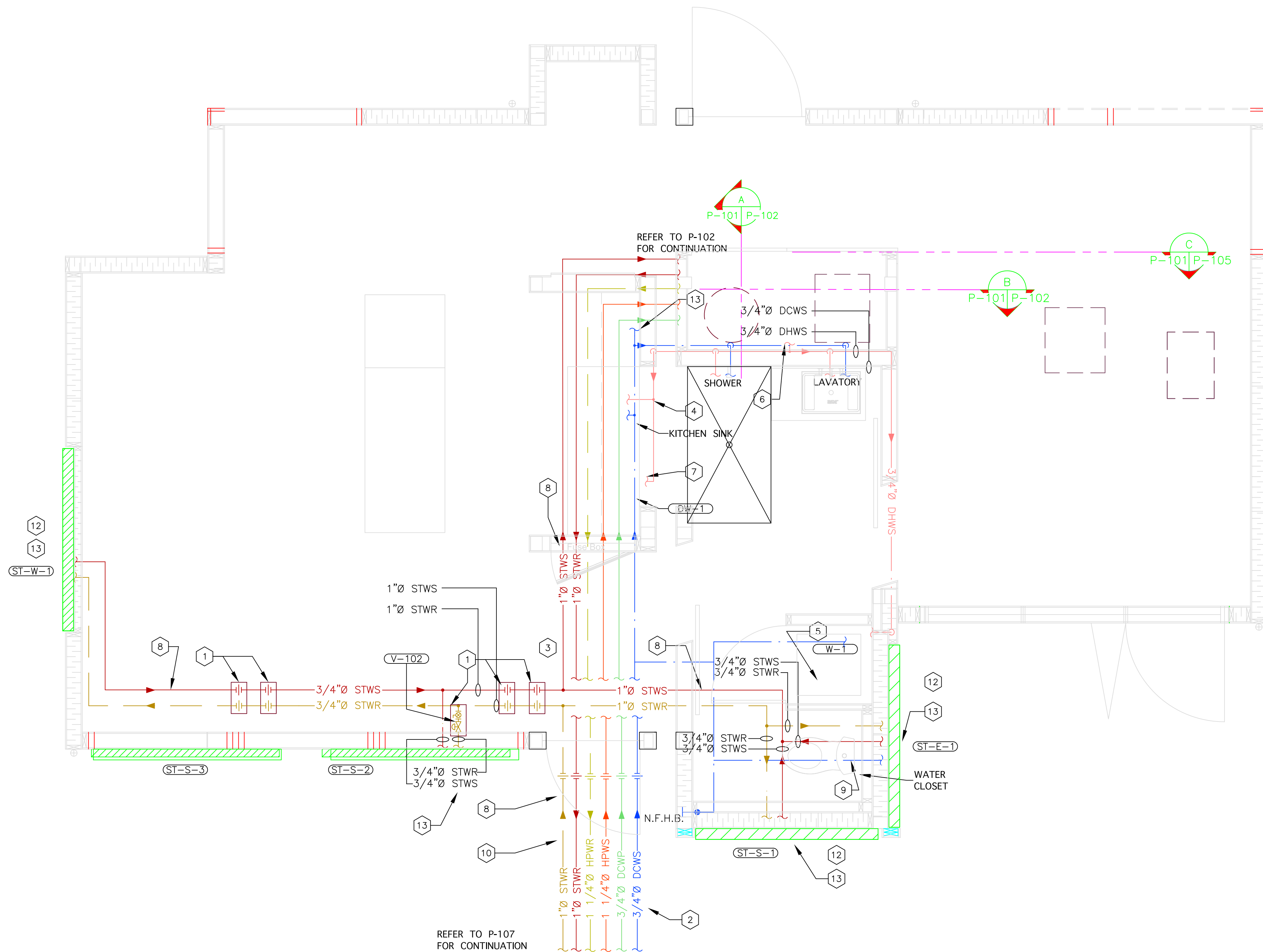
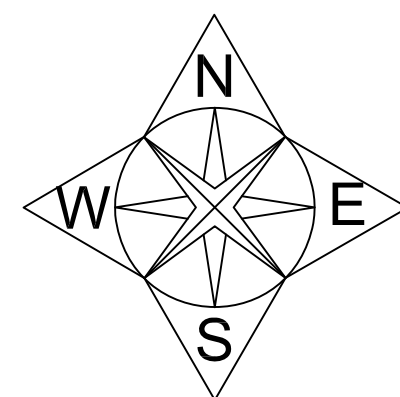
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DATE: 2009/05/30

SCALE: 1/2" = 1' 0"

SHEET TITLE: MAIN PLUMBING PLAN

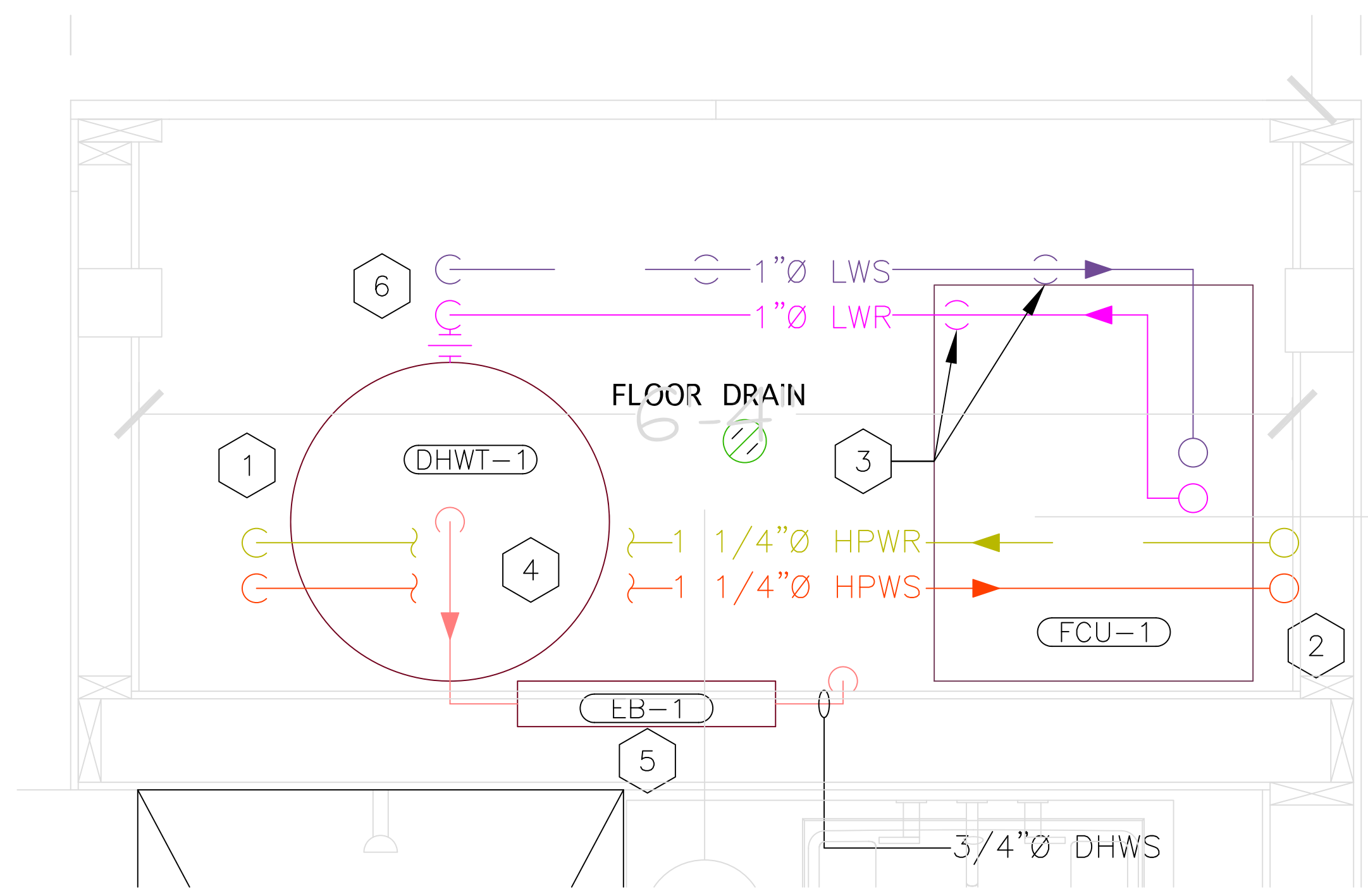
SHEET #: P-101



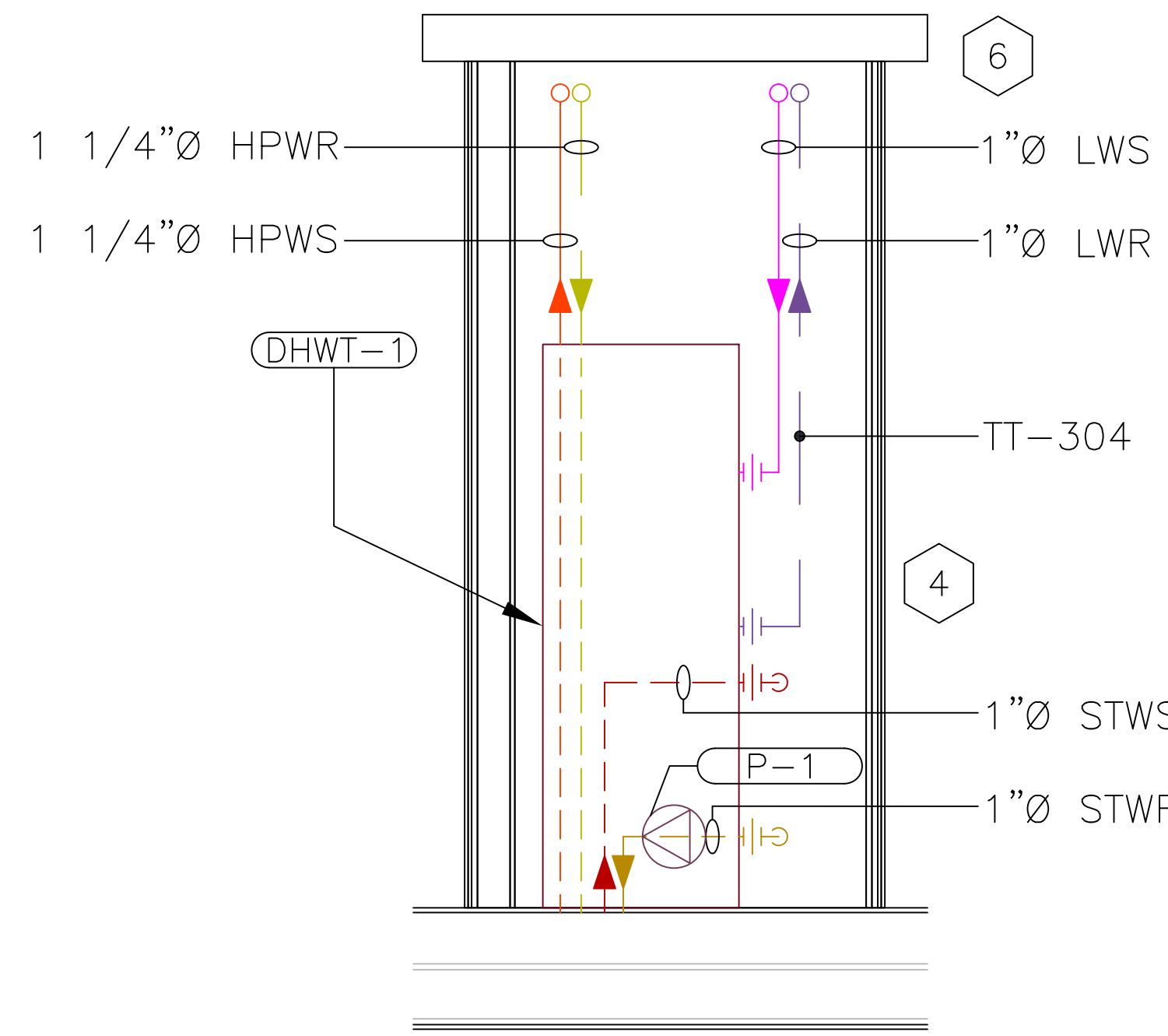
MAIN PLUMBING PLAN - KEY NOTES

- FLOOR ACCESS HATCH OF MINIMUM SUITABLE DIMENSIONS FOR ASSEMBLY AND MAINTENANCE. MODULE PIPE CONNECTIONS TO BE THREADED W/ FLEXIBLE STAINLESS STEEL PASS THROUGH..
- PIPE SPACING SHOWN FOR CLARITY ONLY. PIPE CONNECTIONS AT ENTRY TO BE THREADED UNIONS.
- PIPE TO INTERIOR OF HOUSE TO RUN BENEATH SOLAR THERMAL BRANCHES (EAST/WEST). REFER TO EMERCOR NOTCHING DIAGRAM FOR ALLOWABLE PIPE OFFSETS.
- 3/8" HOT WATER SUPPLY TO DISHWASHER. REFER TO INSTALLATION MANUAL FOR DETAILS.
- WALL ASSEMBLY CONTAINED WITHIN CLOSET FOR HOT AND COLD WATER SHUT-OFF VALVES C/W FLEX-HOSE CONNECTION HOOK-UP. REFER TO INSTALLATION MANUAL FOR DETAILS.
- DOMESTIC WATER PIPES TO BE ROUTED THROUGH THE FLOOR - COORDINATE WITH STRUCTURAL COLUMN SUPPORTS. PIPE SPACING SHOWN ON DRAWING FOR CLARITY ONLY. REFER TO P-102 FOR CONTINUATION.
- ENSURE PIPING IS KEPT UNDERNEATH MILLWORK TO AVOID EXPOSURE TO KEYWAY.
- SUPPLY LINE PIPING FROM SOLAR THERMAL PANELS TO TST-1 AND DHWT-1 TO BE INSULATED TYPE-L COPPER.
- WATER CLOSET DOMESTIC COLD WATER PIPING TO BE CAPPED FOR FUTURE USE - NO HOOKUP DURING COMPETITION.
- ALL PIPING WITH THREADED UNIONS TO ENTER BELOW FRONT PORCH. HEAT TRACE TO BE INSTALLED TO PREVENT FREEZING.
- DOMESTIC COLD WATER PIPE TO FEED INTO THE REFRIGERATOR FOR DRINKING WATER SUPPLY.
- BALANCING CONTROL CALVES TO BE INSTALLED IN WALL REFER TO M-103 FOR APPROPRIATE CONTROL VALVE ID.
- SOLAR THERMAL PANELS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

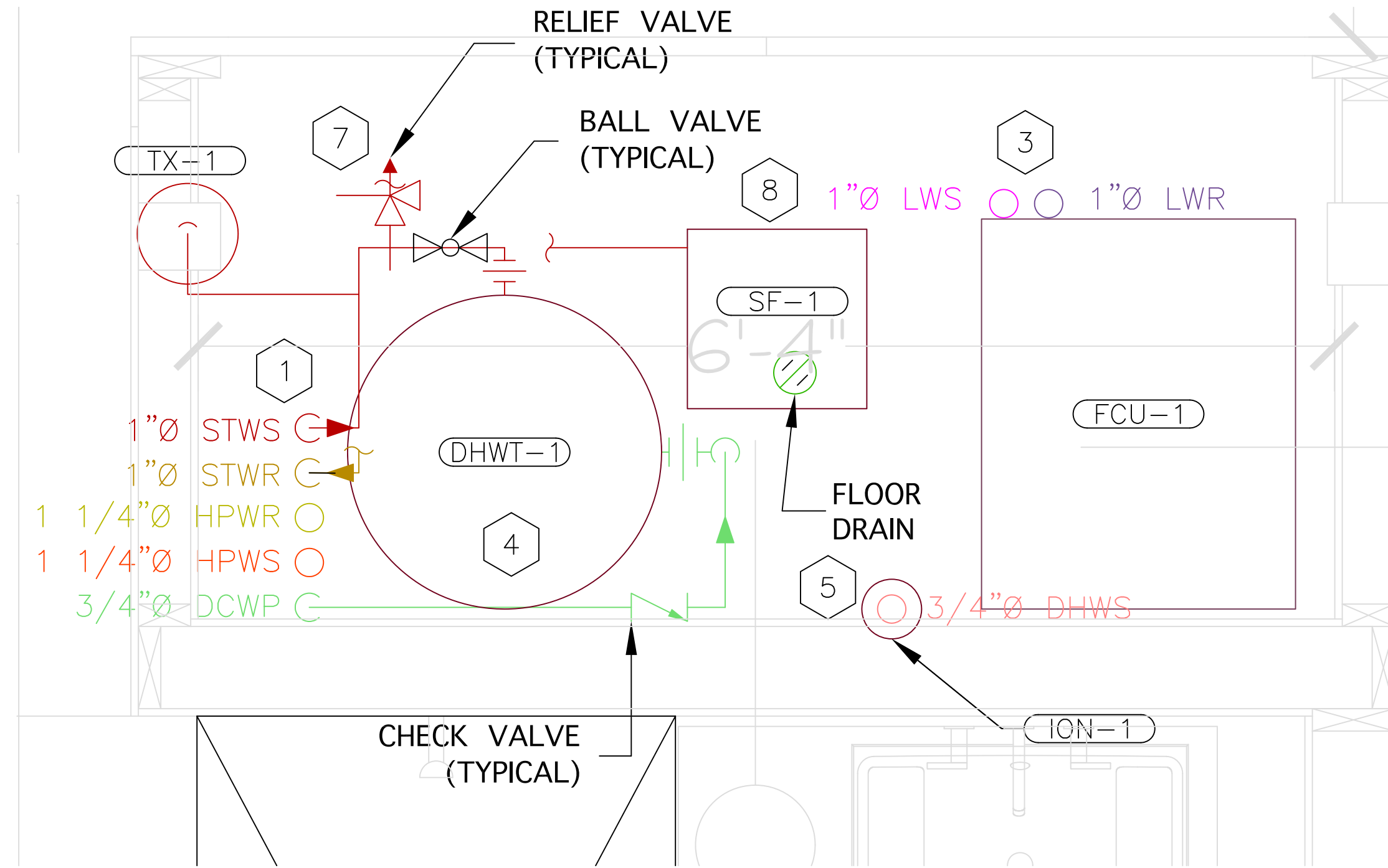
1 PLUMBING PLAN
P-101 1/2" = 1' 0"



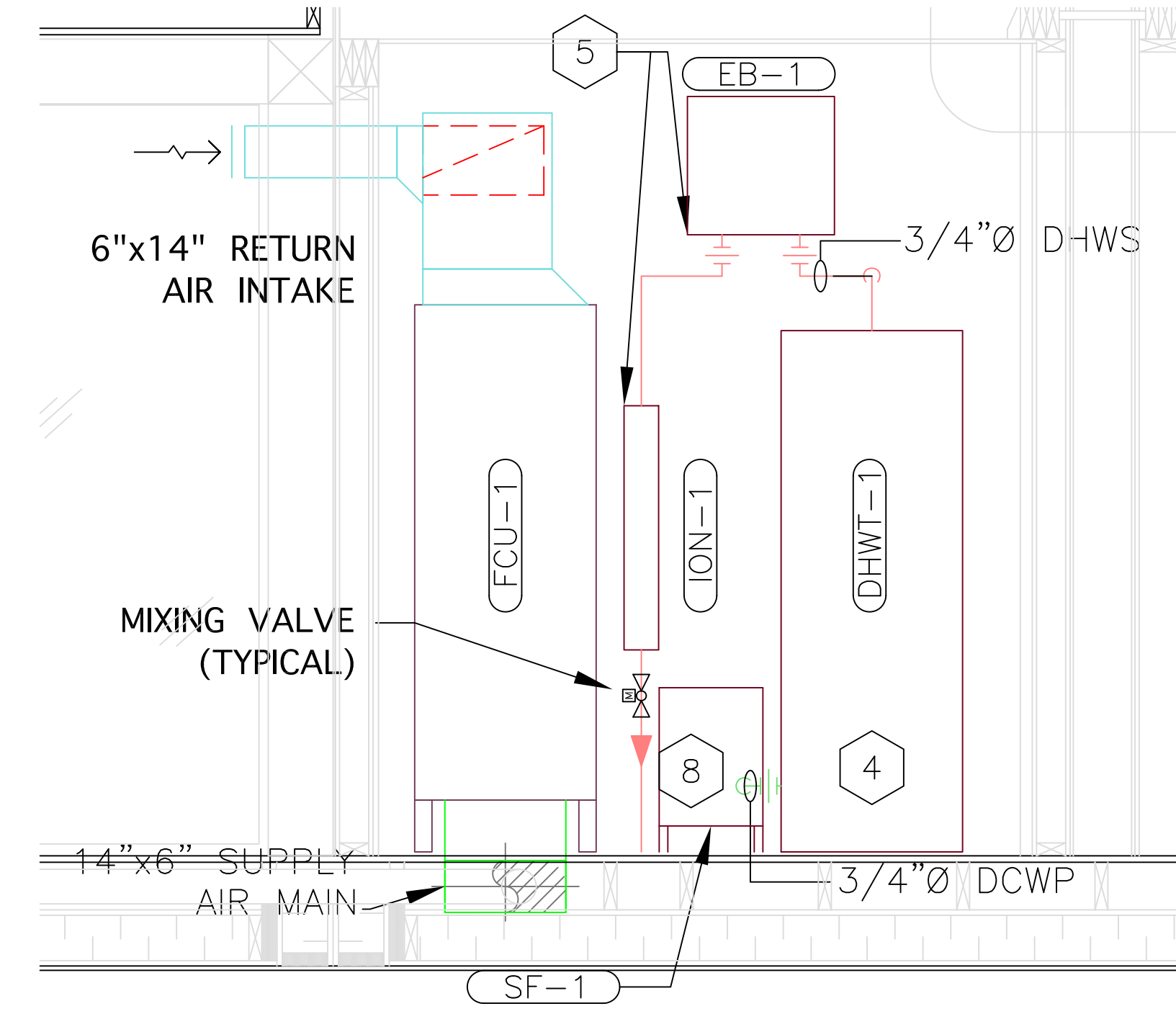
1 MECHANICAL ROOM PLUMBING PLAN - HIGH LEVEL
P-102 1 1/2" = 1' 0"



2 MECHANICAL ROOM - SECTION A
P-102 3/4" = 1' 0"



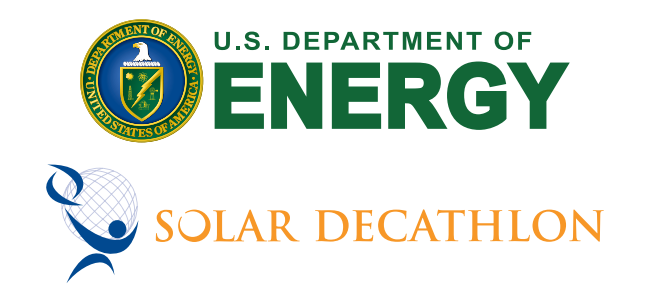
3 MECHANICAL ROOM PLUMBING PLAN - LOW LEVEL
P-102 1 1/2" = 1' 0"



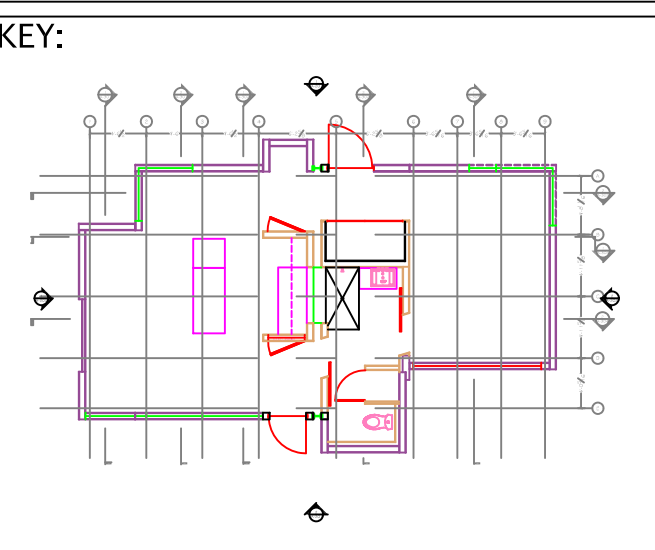
4 MECHANICAL ROOM - SECTION B
P-102 1 1/2" = 1' 0"

MECHANICAL ROOM PLAN - KEY NOTES

- | | | | |
|---|---|--|--|
| <p>1 REFER TO P-101 FOR CONTINUATION. MAINTAIN PIPE AT LOW LEVEL TO AVOID CONFLICT WITH KEYWAY.</p> <p>2 REFER TO PLAN 2 ON P-103 FOR CONTINUATION. HEAT PUMP LOAD AND SOURCE LOOP RISERS UP TO HEAT PUMP IN ATTIC.</p> | <p>3 PIPING RISERS TO CONNECT TO FCU-1. REFER TO P-105 FOR CONTINUATION. V-302 IS ON 1"Ø LWS RISER - NOT SHOWN.</p> <p>4 REFER TO HOT WATER TANK DHWT-1 INSTALLATION MANUAL FOR DETAILED PLUMBING CONNECTIONS TO HEATING COILS AND WATER SUPPLY. INCLUDE PRESSURE & TEMPERATURE RELIEF.</p> | <p>5 MOUNT EQUIPMENT ON REAR WALL. REFER TO INSTALLATION MANUALS FOR DETAILS.</p> <p>6 MAINTAIN PIPING AND VALVES AT HIGH LEVEL FOR MAINTENANCE AND ACCESS PURPOSES.</p> <p>7 P&T RELIEF TO DRAIN TO SF-1.</p> | <p>8 AXIOM SOLAR FEEDER SF-1 TO BE ELEVATED FOR ACCESS TO FLOOR DRAIN, COORDINATE WITH DOMESTIC WATER INLET AND ENSURE SUFFICIENT ACCESS FOR HOOK UP TO SOLAR LOOP. REFER TO INSTALLATION MANUAL FOR DETAILS.</p> <p>9 ION-1 HAS 2" FIP CONNECTION</p> |
|---|---|--|--|



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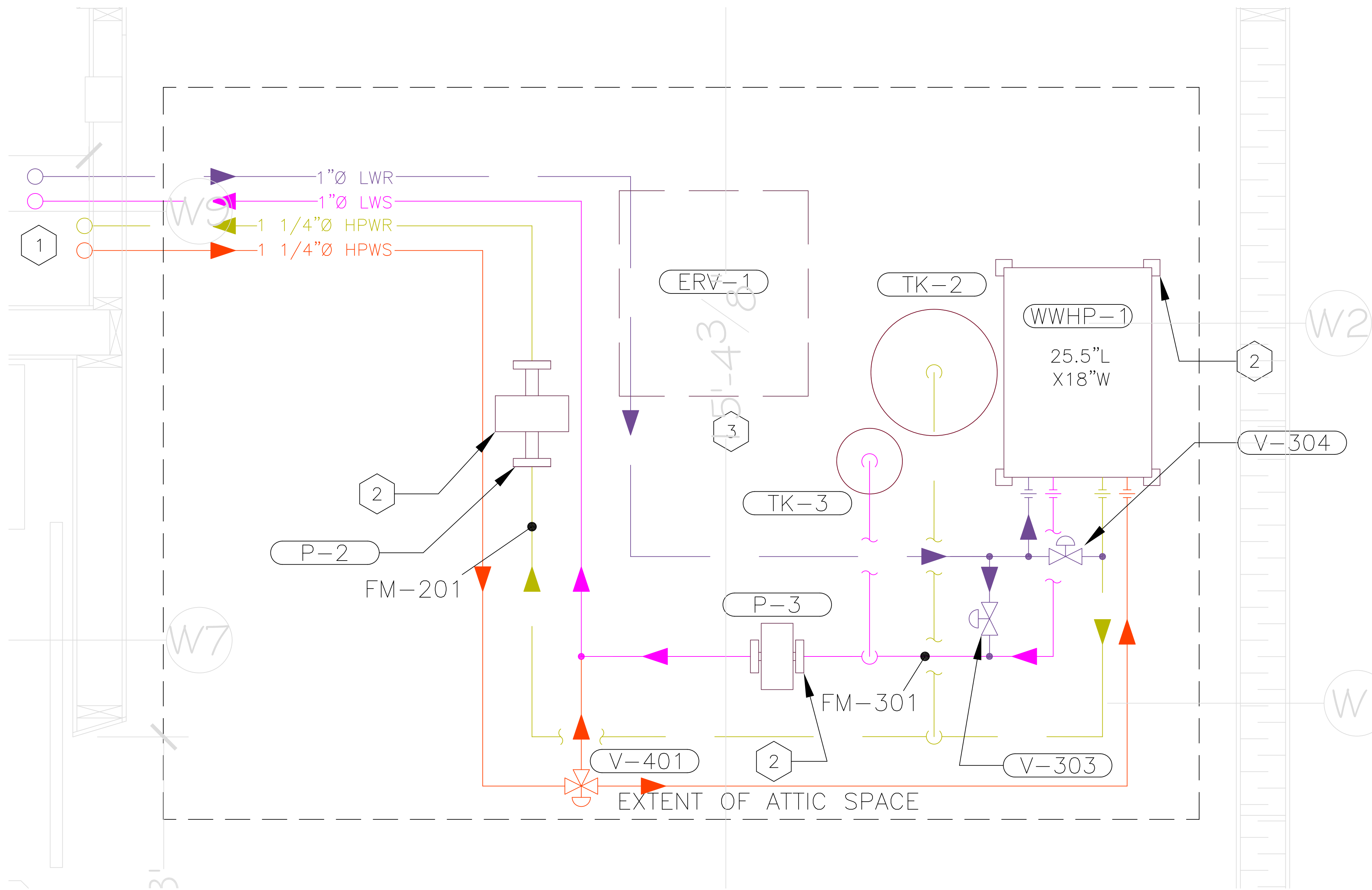
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DATE: 2009/05/30

SCALE: VARIOUS

SHEET TITLE: MECH. RM. PLUMBING

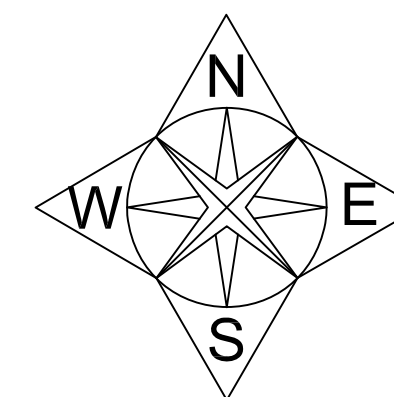
SHEET #: P-102



1 MECH. ATTIC PLUMBING
P-103 1 1/2" = 1' 0"

MECHANICAL ATTIC PLAN - KEY NOTES

- 1 REFER TO P-102 FOR CONTINUATION - PIPE DROPS INTO MECH. ROOM. COORDINATE RISERS WITH DUCTWORK; REFER TO M-102. PIPE SPACING IS FOR CLARITY ONLY.
- 2 MOUNT ON PADS (TYPICAL) FOR VIBRATION ISOLATION.
- 3 ERV-1 HUNG ABOVE PLUMBING FROM BEAMS WITH CLEARANCE FOR O/A DUCT ABOVE WWHP-1. REFER TO M-102 AND PLAN 2 ON P-102.



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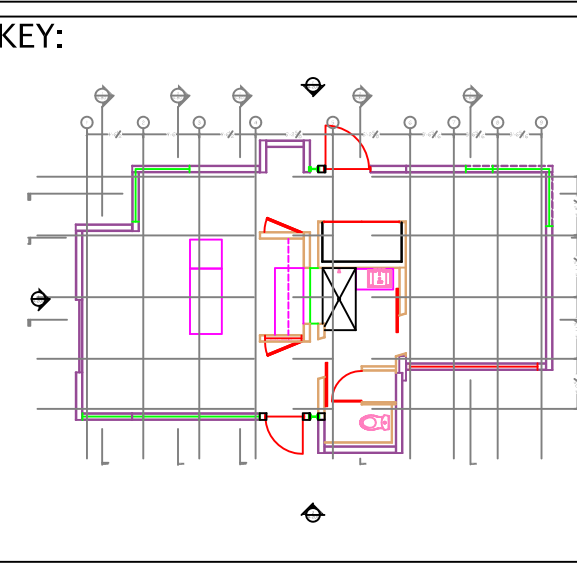
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SOLAR DECATHLON

ISSUED DATES
DATE: 2009/06/02 DESCRIPTION: CONSTRUCTION SET

REVISIONS
DATE: DESCRIPTION



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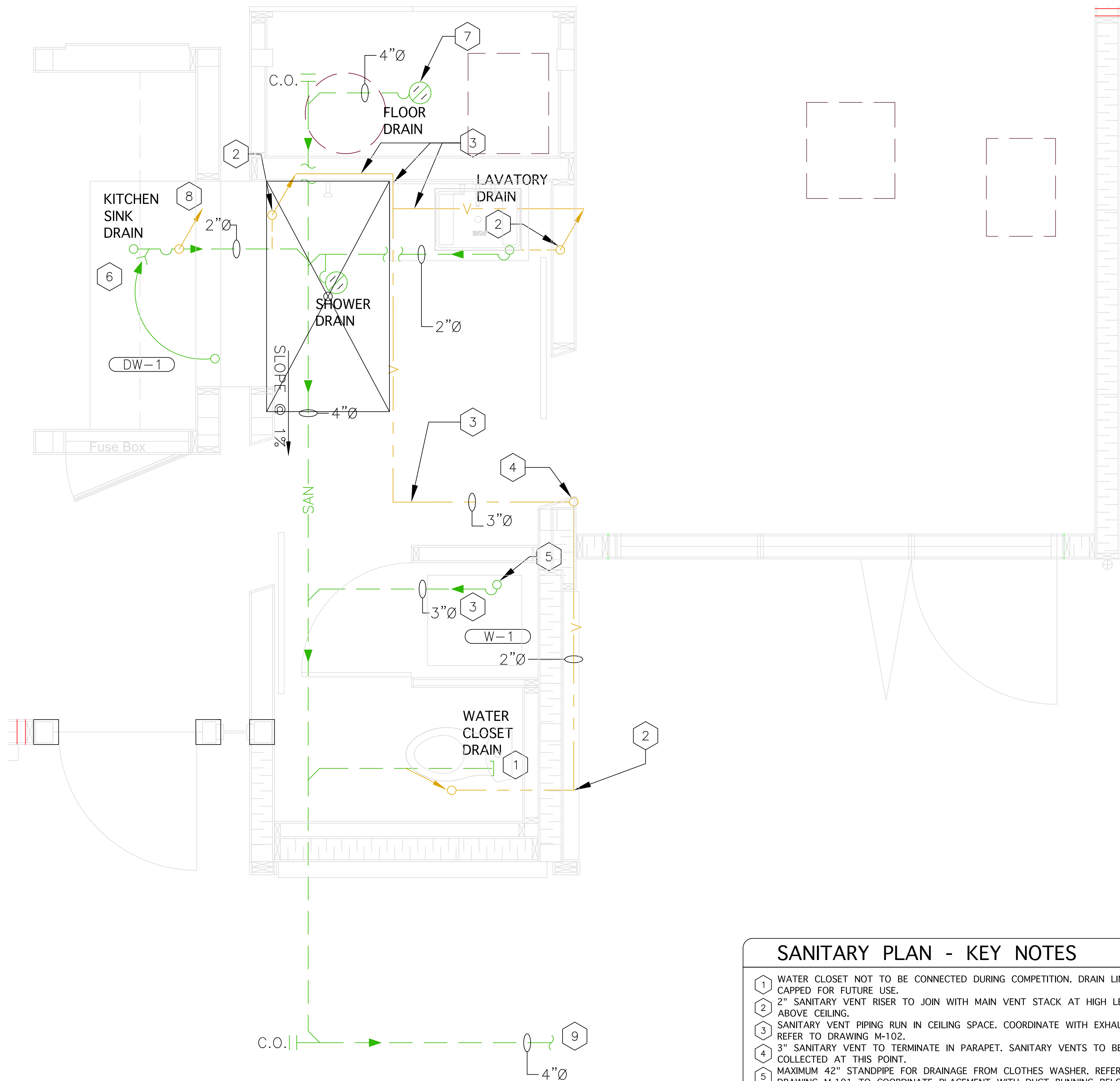
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SHEET TITLE:
MECH. ATTIC PLUMBING

SHEET #:
P-103

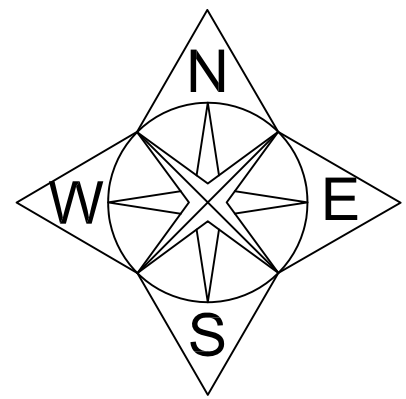


1
P-104

SANITARY PLAN
3/4" = 1' 0"

SANITARY PLAN - KEY NOTES

- 1 WATER CLOSET NOT TO BE CONNECTED DURING COMPETITION. DRAIN LINE TO BE CAPPED FOR FUTURE USE.
- 2 2" SANITARY VENT RISER TO JOIN WITH MAIN VENT STACK AT HIGH LEVEL ABOVE CEILING.
- 3 SANITARY VENT PIPING RUN IN CEILING SPACE. COORDINATE WITH EXHAUST DUCT - REFER TO DRAWING M-102.
- 4 3" SANITARY VENT TO TERMINATE IN PARAPET. SANITARY VENTS TO BE COLLECTED AT THIS POINT.
- 5 MAXIMUM 42" STANDPIPE FOR DRAINAGE FROM CLOTHES WASHER. REFER TO DRAWING M-101 TO COORDINATE PLACEMENT WITH DUCT RUNNING BELOW.
- 6 INDIRECT DRAIN CONNECTION FOR DISHWASHER VIA KITCHEN SINK. SEE INSTALLATION MANUAL FOR DETAILS.
- 7 FLOOR DRAIN TO ACCEPT CONDENSATE FROM DHWT-1 AND FCU-1.
- 8 KITCHEN VENT STACK TO BE INDEPENDENT OF OTHER VENTS - TO TERMINATE ON THE WEST SIDE OF KEYWAY.
- 9 4" SANITARY MAIN TO CONNECT TO WASTEWATER TANK WWT-1 OUTSIDE AND SUMP PUMP SYSTEM. REFER TO SITE PLAN AND P-107 FOR FINAL LOCATION OF TANK.



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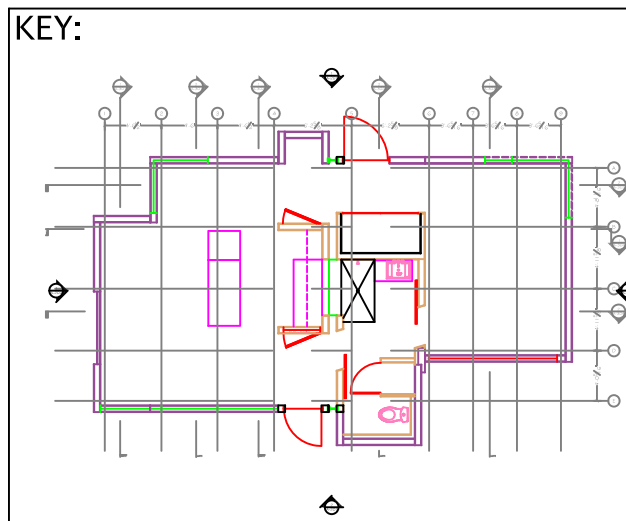
UNIVERSITY OF
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SOLAR DECATHLON

ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION



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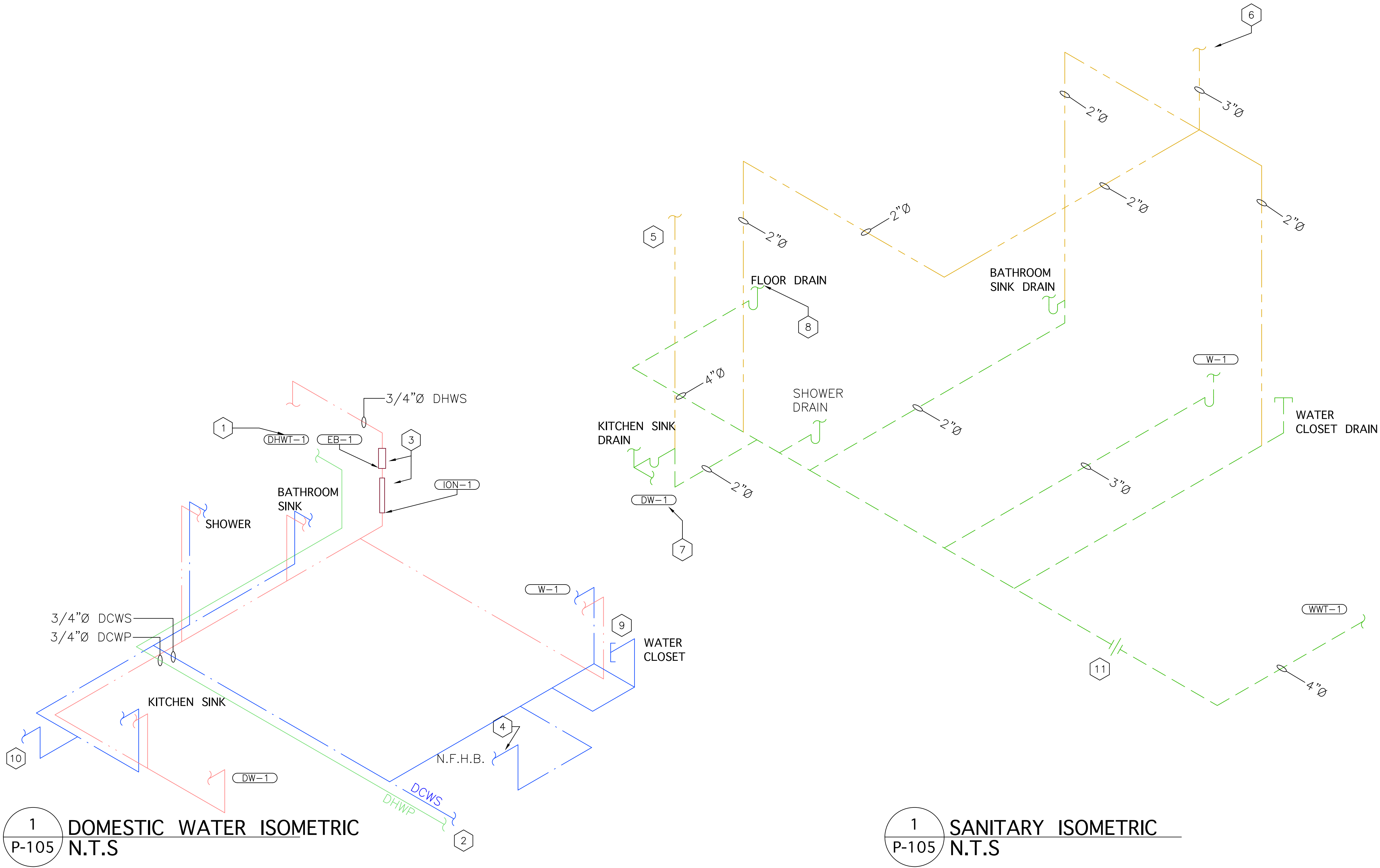
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DATE: 2009/05/30

SCALE:
3/4" = 1' 0"

SHEET TITLE: **SANITARY &
OUTDOOR PLUMBING**

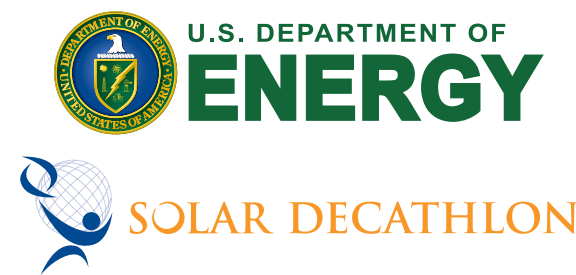
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P-104



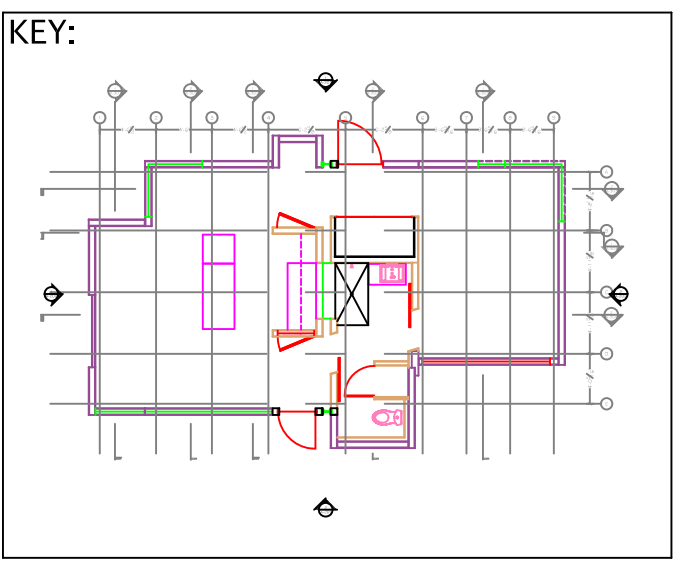
PLUMBING ISOMETRICS - KEY NOTES			
1	TYPICAL HOT AND COLD WATER CONNECTIONS. REFER TO HOT WATER TANK INSTALLATION MANUAL.	7	INDIRECT HOT WATER SUPPLY CONNECTION FOR DISHWASHER VIA KITCHEN SINK. SEE INSTALLATION MANUAL FOR DETAILS.
2	ALL DOMESTIC H/C WATER TO MAINTAIN 3/4" PIPE DIMENSION THROUGHOUT AFTER COLD WATER BRANCHES TO TST-1.	8	FLOOR DRAIN TO ACCEPT CONDENSATE / OVERFLOW FROM EQUIPMENT. REFER TO INSTALLATION MANUALS FOR DHWT-1 AND FCU-1 FOR DETAILS.
3	REFER TO P-102 AND PRODUCT MANUALS FOR EB-1 AND ION-1 INSTALLATION DETAILS.	9	PLUMBING CONNECTIONS TO TOILET TO BE CAPPED FOR COMPETITION.
4	NON-FREEZE HOSE BIBB - TYPICAL.	10	DOMESTIC COLD WATER TO REFRIGERATOR FOR DRINKING.
5	KITCHEN PLUMBING VENT STACK TO TERMINATE SEPARATELY FROM OTHER VENTS.	11	THREADED UNION TO CONNECT TO WWT-1 OUTSIDE DURING COMPETITION.
6	3" SANITARY VENT TO TERMINATE IN PARAPET. ALL OTHER SANITARY VENTS TO BE COLLECTED AT THIS POINT.		



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DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



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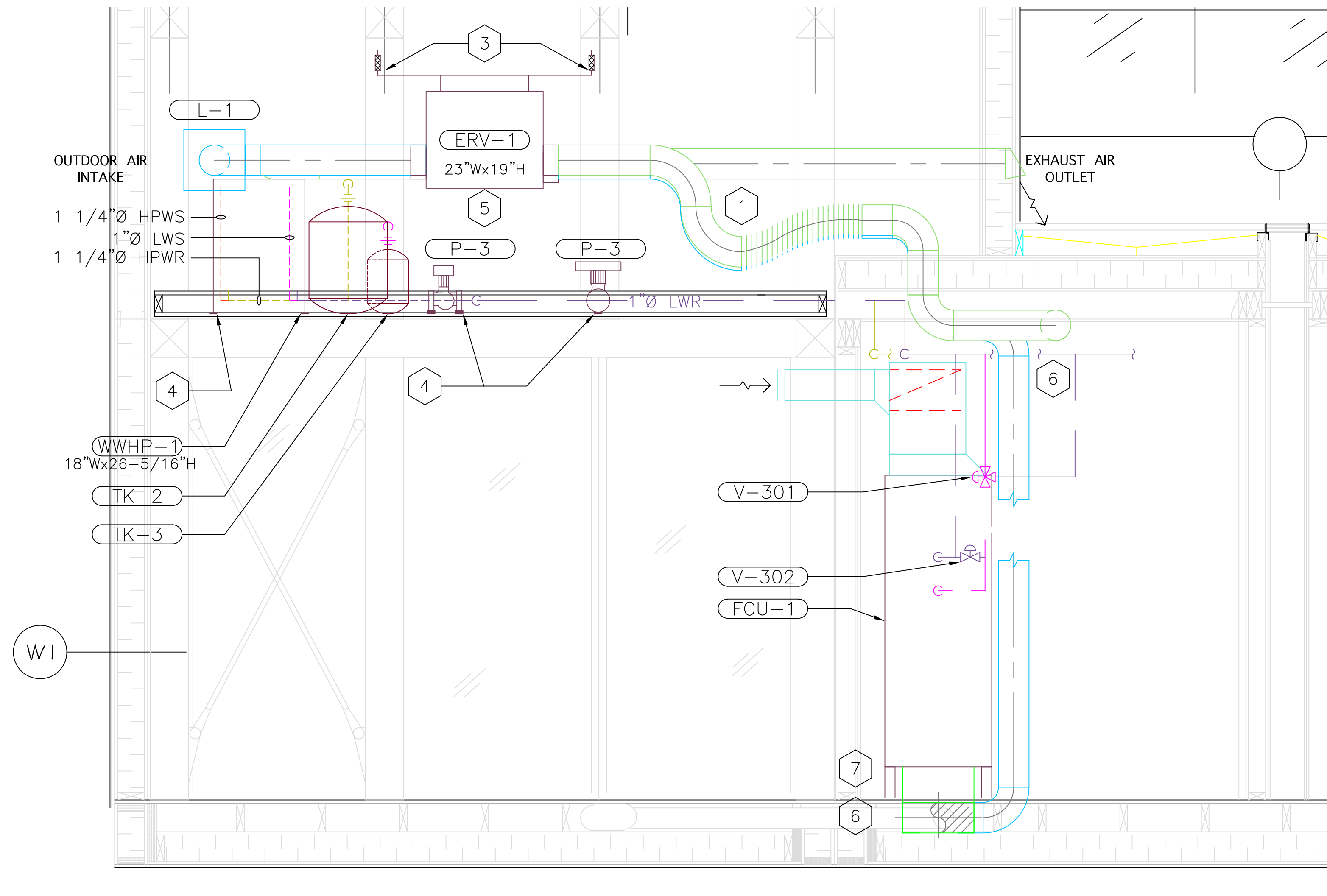
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HOB	MG

DATE: 2009/05/30

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SHEET TITLE: PLUMBINGISOMETRIC

SHEET #: P-105

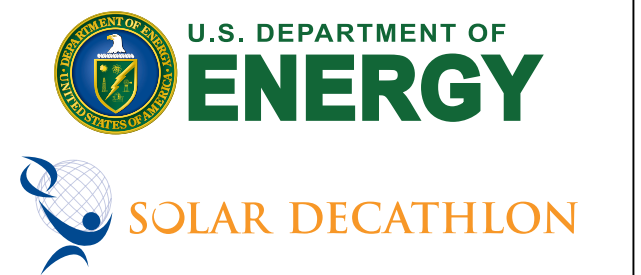


1 MECHANICAL ATTIC SECTION
P-106 3/4" = 1' 0"

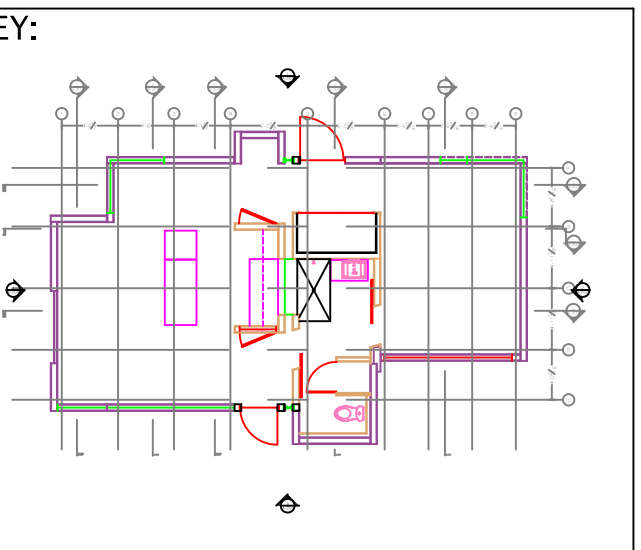
MECHANICAL ATTIC SECTION - KEY NOTES	
1 6\"/>	5 ATTIC ACCESS DOOR FROM OUTSIDE TO BE CENTERED BETWEEN BEAMS HOLDING ERV-1 FOR FILTER REMOVAL & GENERAL MAINTENANCE. REFER TO DRAWINGS P-102, P-103, M-101 AND M-102 FOR COORDINATION & CONTINUATIONS.
2 MOUNT EQUIPMENT ON NEOPRENE PADS (TYPICAL) FOR VIBRATION ISOLATION.	6 OUTDOOR AIR SUPPLY TO TIE INTO FCU-1 AT SUPPLY AIR MAIN. RAISE FCU-1 OFF OF FLOOR AND USE PLENUM FOR IMPROVED AIRFLOW.
3 ERV-1 HUNG FROM BEAMS WITH CLEARANCE FOR O/A & E/A DUCT ABOVE WWHP-1. HANGING RODS TO CONTAIN VIBRATION ISOLATORS (TYPICAL).	
4 PROVIDE NEOPRENE PADS (TYPICAL) AT THE BASE OF EQUIPMENT FOR VIBRATION ISOLATION.	



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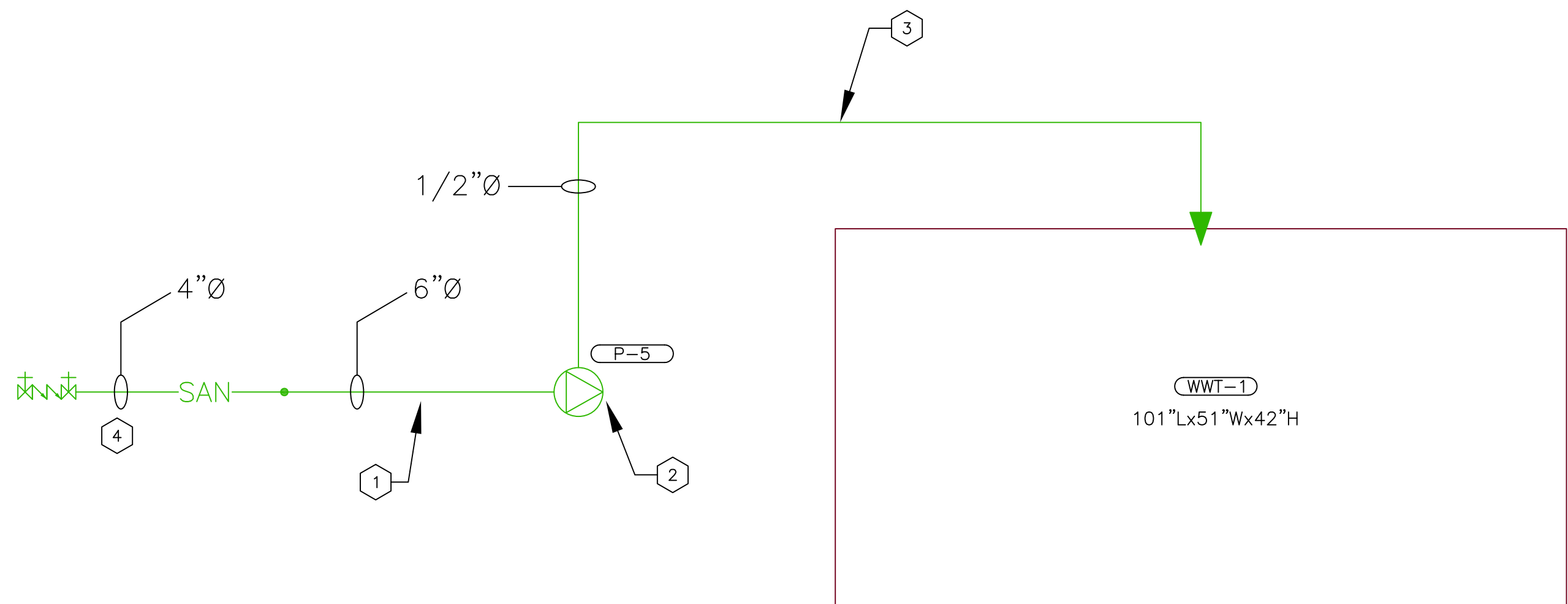


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DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



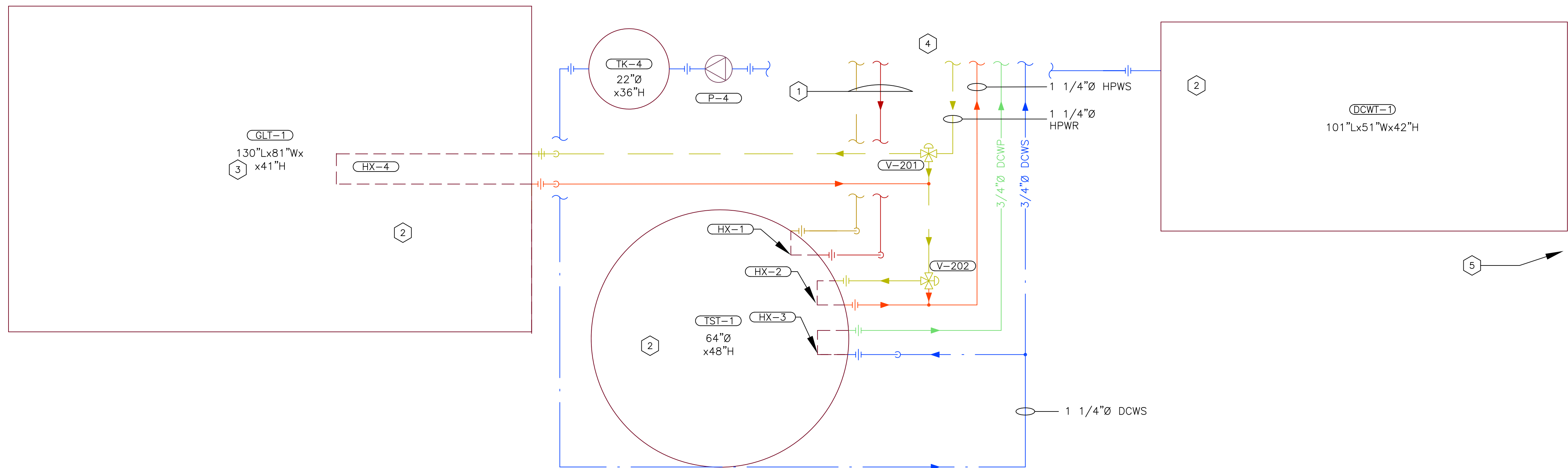
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DRAWN:	CHECKED:
HOB	MG
DATE:	2009/05/30
SCALE:	3/4" = 1' 0"
SHEET TITLE:	MECH. ATTIC SECTION
SHEET #:	P-106



- WASTE WATER SYSTEM SCHEMATIC - KEY NOTES**
- 1 HORIZONTAL FLOAT SWITCH TO BE INSTALLED IN CAPPED TEE SUCH THAT WHEN SWITCH IS DISENGAGED P-5 REMAINS WET.
 - 2 P-5 TO BE INSTALLED IN-LINE W/6" RETAINING LINE. PUMP IS SUBMERSIBLE. ELECTRICAL CONNECTIONS TO BE HOUSED IN WATERPROOF CONDUIT. PUMP TO BE PAD MOUNTED.
 - 3 1/2" FLEX TUBING TO DISCHARGE AT TOP WWT-1
 - 4 INCLUDE AIR ADMITTANCE DEVICE

1 WASTE WATER SYSTEM SCHEMATIC
P-107 N.T.S

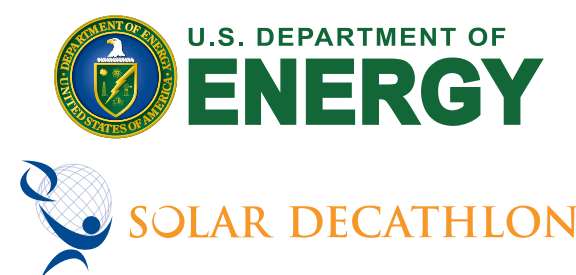


2 OUTDOOR TANK PLUMBING PLAN
P-107 N.T.S

- OUTDOOR TANK PLUMBING PLAN - KEY NOTES**
- 1 SOLAR THERMAL PIPING TO BE INSULATED TYPE-L COPPER PIPE. LISTED FROM LEFT TO RIGHT: 1"Ø STWR, 1"Ø STWS, 1"Ø STWR
 - 2 TANKS TO BE POSITIONED IN ACCORDANCE WITH S.D. RULES 6-2 & 8-3. REFER TO SITE PLAN FOR FINAL LOCATIONS. FINAL PIPE LAYOUT TO BE COORDINATED WITH SITE PLAN
 - 3 THERMOSYPHONS TO BE USED AS A METHOD OF PASSIVE HEAT REJECTION FOR THIS ATMOSPHERIC TANK.
 - 4 REFER TO P-101 FOR CONTINUATION.
 - 5 SANITARY WASTEWATER TANK WWT-1 NOT SHOWN ON THIS DRAWING, BUT IS DIRECTLY ADJACENT TO DCWT-1. KEYNOTE 3 APPLIES HERE AS WELL.

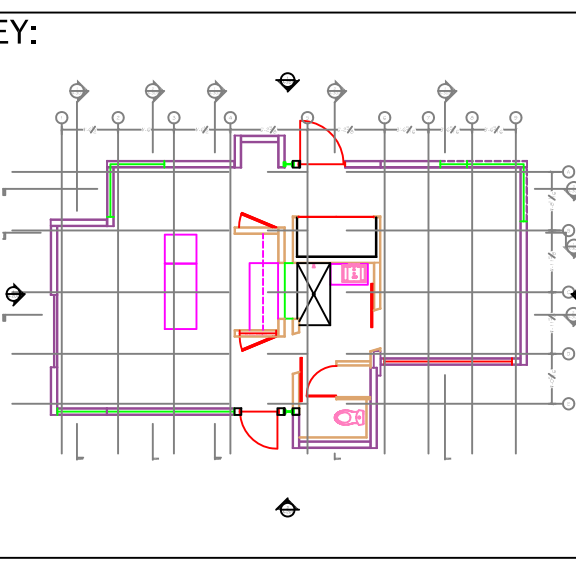


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DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION



STAMP:

DRAWN:	CHECKED:
HOB	MG

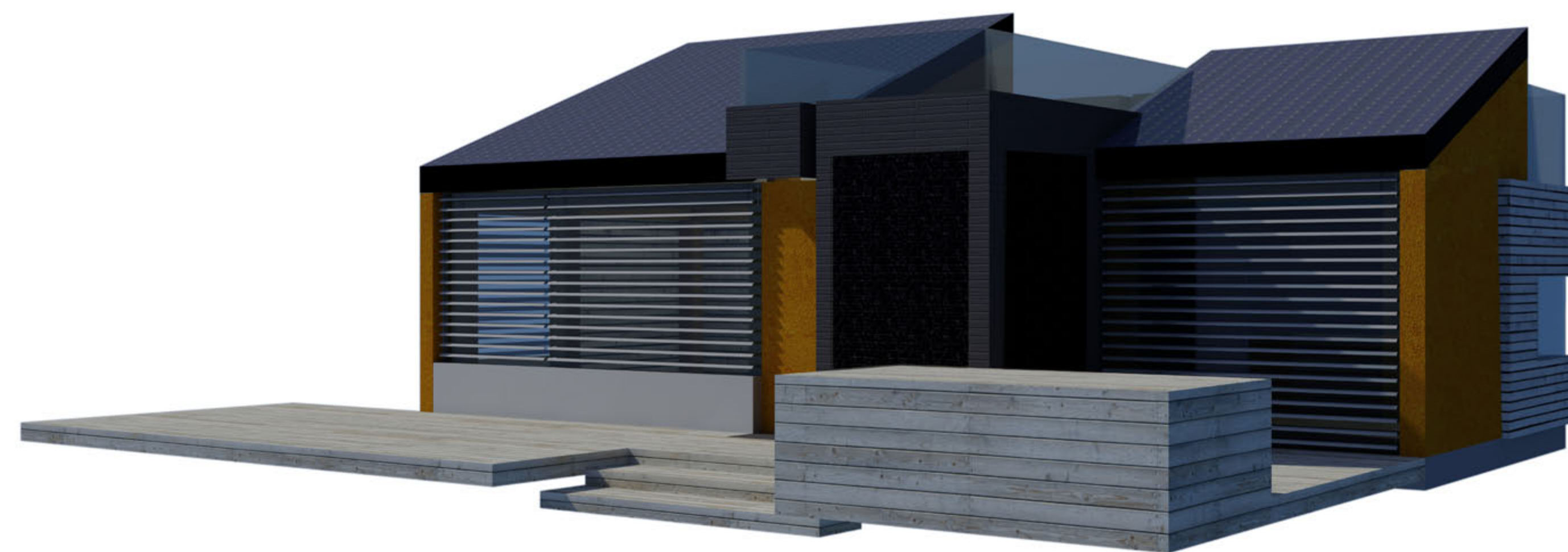
DATE: 2009/05/30

SCALE: N.T.S

SHEET TITLE:

OUTDOOR PLUMBING PLAN

SHEET #: P-107



General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations

HVAC SYMBOLS

	RECTANGULAR DUCT		SUPPLY AIR DUCT COLOUR
	ROUND DUCT		OUTDOOR AIR DUCT COLOUR
	FLEXIBLE DUCT		RETURN AIR DUCT COLOUR
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)		EXHAUST AIR DUCT COLOUR
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH		THERMOSTAT
	TEE, 45 DEG., RECTANGULAR MAIN AND BRANCH, SQUARE TO ROUND		HUMIDISTAT
	TEE, 45 DEG., ROUND/OVAL MAIN AND BRANCH		OUTDOOR AIR SENSOR
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)		THERMOMETER
	ELBOW, RECTANGULAR, MITERED WITH TURNING VANES		TRANSFER AIR GRILLE TAG
	TRANSITION, ROUND/OVAL (30° CONTRACTUAL ANGLE DEFAULT)		FLOOR-MOUNTED SUPPLY AIR DIFFUSER
			WALL MOUNTED GRILLE/REGISTER
			AIR FLOW ARROWS
			EQUIPMENT TAG (REFER TO SCHEDULE)
			KEY NOTES
			IN-LINE DUCT FAN

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ISSUED DATES

DATE:

DESCRIPTION

2009/06/02

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2009/05/30

SCALE:

N.T.S

SHEET TITLE:

MECHANICAL LEGEND

SHEET #:

M-001

HEAT PUMP SCHEDULE									
TAG No.	LOCATION	MANUFACTURER	MODEL No.	NOMINAL CAPACITY (tons)	SOURCE/LOAD FLOW RANGE (gpm)	LOAD SIDE PRESSURE DROP @ 6 gpm (ft. H2O)	SOURCE SIDE PRESSURE DROP @ 6 gpm (ft. H2O)	ELECTRICAL (V/Ph/Hz)	REMARKS
WWHP-1	MECH ATTIC	WATER FURNACE	EW-020-R-1-0-SS-A	2	3-9	9.7	8.9	230/1/60	TO BE MOUNTED ON A NEOPRENE PAD FOR VIBRATION ISOLATION.

SOLAR THERMAL COLLECTOR SCHEDULE								
TAG No.	Location	MANUFACTURER	MODEL No.	TYPE	GROSS COLLECTOR AREA (sq. ft.)	NOMINAL FLOW RATE (gpm)	NOMINAL PRESSURE DROP (ft. H2O)	REMARKS
ST-W-1	WEST FACADE	ZEN	42P	FLAT PLATE	44.35	1.1	2.34	REFER TO INSTALLATION MANUAL FOR DETAILS. UPSTREAM PIPING TO BE INSULATED TYPE-L COPPER IN LIEU OF AQUATHERM.
ST-S-1	SOUTH CORE	ZEN	42P	FLAT PLATE	44.35	1.1	2.34	REFER TO INSTALLATION MANUAL FOR DETAILS. UPSTREAM PIPING TO BE INSULATED TYPE-L COPPER IN LIEU OF AQUATHERM.
ST-S-2	SOUTH BELOW WINDOW	SUN BANK	SB10	FLAT PLATE	10.04	-	-	REFER TO INSTALLATION MANUAL FOR DETAILS. UPSTREAM PIPING TO BE INSULATED TYPE-L COPPER IN LIEU OF AQUATHERM.
ST-S-3	SOUTH BELOW WINDOW	SUN BANK	SB10	FLAT PLATE	10.04	-	-	REFER TO INSTALLATION MANUAL FOR DETAILS. UPSTREAM PIPING TO BE INSULATED TYPE-L COPPER IN LIEU OF AQUATHERM.
ST-E-1	EAST CORE	ZEN	42P	FLAT PLATE	44.35	1.1	2.34	REFER TO INSTALLATION MANUAL FOR DETAILS. UPSTREAM PIPING TO BE INSULATED TYPE-L COPPER IN LIEU OF AQUATHERM.

FAN COIL SCHEDULE											
TAG No.	LOCATION	MANUFACTURER	MODEL No.	FLUID FLOW (gpm)	FLUID PRESSURE DROP @ 6 gpm (FT. H2O)	AIR-FLOW RATE (cfm)	MAX ESP (INCH w.g.)	BLOWER (hp)	AUX. HEAT (kW)	ELECTRICAL (V/Ph/Hz)	REMARKS
FCL-1	MECH CLOSET	WATER FURNACE	NAH-026-A-05-1-H	6 GPM	2.8	925	0.50	0.50	5.0	230/1/60	HYDRONIC COIL. BOTTOM FLOW UNIT. C/W 3/4" FPT CONDENSATE FITTING TO EMPTY INTO MECH ROOM FLOOR DRAIN.

ENERGY RECOVERY VENTILATOR SCHEDULE										
TAG No.	LOCATION	MANUFACTURER	MODEL No.	MIN AIR-FLOW RATE (cfm)	MAX AIR-FLOW RATE (cfm)	MIN POWER (hp)	MAX POWER (hp)	ELECTRICAL (V/Ph/Hz)	REMARKS	
ERV-1	MECH ATTIC	ULTIMATEAR	200DX	70	210	0.04	0.37	120/1/60	C/W PRE-FILTERS, FANS, CONTROLS, MOTORS & 6" WJ COLLARS FOR DUCTWORK. PROVIDE VIBRATION ISOLATORS FOR BEAM HANGERS.	

LOUVRE SCHEDULE							
TAG No.	MANUFACTURER	MODEL No.	FREE AREA (%)	SIZE (WXH) (in.)	CONSTRUCTION	FINISH	REMARKS
L-1	E.H. PRICE	DE 439	38	12x12	EXTRUDED ALUMINUM	BAKED ENAMEL	COLOUR AS SELECTED BY ARCHITECT, CONFIRM BEFORE ORDERING. SUBMIT APPROVAL SAMPLE SIZE AS PER DRAWINGS.

PUMP SCHEDULE												
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	TYPE	FLUID	FLOW (gpm)	HEAD (feet)	MOTOR OUTPUT (hp)	RPM	ELECTRICAL (V/Ph/Hz)	REMARKS
P-1	SOLAR THERMAL	MECH ROOM	WILO	STRATOS ECO 16F	SINGLE HEAD	WATER	6.0	13.3	0.043	3400	110/1/50	
P-2	WWHP-1 SOURCE	MECH ATTIC	WILO	STRATOS 1.25X3-35	SINGLE HEAD	WATER	6.0	37.0	0.27	4800	230/1/50	TO BE MOUNTED ON A NEOPRENE PAD FOR VIBRATION ISOLATION.
P-3	WWHP-1 LOAD	MECH ATTIC	WILO	STRATOS 1.25X3-20	SINGLE HEAD	WATER	6.0	19.3	0.087	3400	230/1/50	TO BE MOUNTED ON A NEOPRENE PAD FOR VIBRATION ISOLATION.
P-4	SERVICE WATER	OUTSIDE	GRUNDFOS	MQ3-35	SINGLE HEAD	WATER	4.5	90	0.8		115/1/60	PUMP TO BE SHREDDED FROM DRIPPING WATER BUT DOES NOT REQUIRE FULL ENCLOSURE
P-5	WASTE WATER	OUTSIDE	LITTLE GIANT	3E-3YN		WATER	10	5	0.07	N/A	115/1/60	TO BE PAD MOUNTED FOR OUTDOOR USE

HEAT EXCHANGER SCHEDULE							
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL NO.	COIL LENGTH (ft.)	PRESSURE DROP @ gpm (ft. H2O)	REMARKS
HX-1	HEAT PUMP	TST-1	STSS	PT. 425	120	10	
HX-2	SOLAR THERMAL	TST-1	STSS	CUSTOM	60	5	
HX-3	DHW PREHEAT	TST-1	STSS	PT. 425	120	10	
HX-4	GROUND LOOP	GLT-1	STSS	PT. 425	120	10	TWO SEPARATE TO BE PIPED IN PARALLEL TO COMBINE INTO ONE.

CONTROL VALVE ACTUATOR SCHEDULE						
TAG No.	SERVICE	MANUFACTURER	MODEL No.	TYPE	ELECTRICAL (V/Ph/Hz)	REMARKS
V-101, V-104	SOLAR THERMAL CONTROL VALVES	BELIMO	B220+TR243 (NC)	3/4" NC 2-WAY	24/1/60	
V-102, V-103	SOLAR THERMAL CONTROL VALVES	BELIMO	B220+TR24-3 (NO)	3/4" NO 2-WAY	24/1/60	
V-302, V-303, V-304	WWHP-1 LOAD CONTROL VALVES	BELIMO	B225+LRB24-3 (NC)	1" NC 2-WAY	24/1/60	
V-301	WWHP-1 LOAD CONTROL VALVES	BEIMO	B325+LRB24-3 (NO)	1" NO 2-WAY	24/1/60	
V-201, V-401	WWHP-1 CROSSOVER CONTROL VALVES	BELIMO	B330+ARB24-3 (NO)	1 1/4" NO 3-WAY ON/OFF	24/1/60	
V-202	WWHP-1 SOURCE CONTROL VALVES	BELIMO	B330+ARB24-SR (NO)	1 1/4" NO 3-WAY PROPORTIONAL	24/1/60	FOR PROPORTIONAL CONTROL

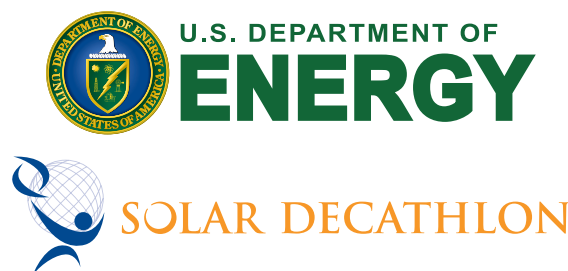
SERVICE TANK SCHEDULE						
TAG No.	Service	Location	MANUFACTURER	MODEL No.	CAPACITY (GAL)	REMARKS
WWT-1	WASTE WATER	OUTSIDE REFER TO P-104	TANK DEPOT	TN600XWT	600	
GLT-1	"GROUND" LOOP	OUTSIDE REFER TO P-104	TANK DEPOT	TN1500WT	1500	TANK INTENDED TO MIMIC GROUND HEAT EXCHANGER TYPICAL TO GROUND SOURCE HEAT PUMP INSTALLATIONS. ATMOSPHERIC TANK WITH THERMOSYPHONS.
TST-1	THERMAL STORAGE	OUTSIDE REFER TO P-104	STSS	H512	512	TO CONTAIN HX-1, HX-2 AND HX-3. REFER TO INSTALLATION MANUAL FOR CONNECTION DETAILS.
DCWT-1	SERVICE WATER	OUTSIDE REFER TO P-104	TANK DEPOT	TN600XWT	600	

EXPANSION TANK SCHEDULE									
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLUID	TANK VOLUME (US gal.)	MAXIMUM ACCEPTANCE (US gal.)	SYSTEM CONNECTION (in.)	REMARKS
TK-1	SOLAR THERMAL LOOP	MECH ROOM	FLEXCON INDUSTRIES	HTX 30	WATER	4.8	2.4	1/2	
TK-2	WWHP-1 SOURCE LOOP	MECH ATTIC	FLEXCON INDUSTRIES	HTX 80	WATER	15	6.0	1/2	
TK-3	WWHP-1 LOAD LOOP	MECH ATTIC	FLEXCON INDUSTRIES	HTX 15	WATER	2.1	1.0	1/2	
TK-4	SERVICE WATER PRESSURIZATION	OUTSIDE REFER TO P-104	GOULDS	BCPTP140	WATER	45.2	-	1 1/4	

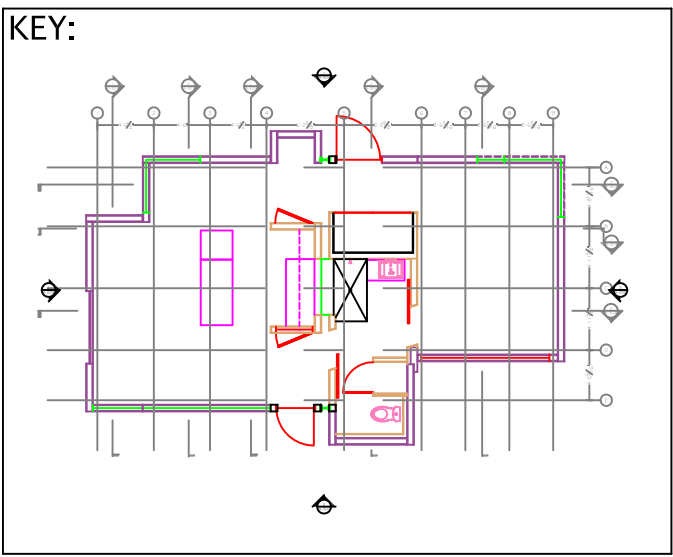
DOMESTIC HOT WATER SCHEDULE							
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	FLOW RATE (gpm)	ELECTRICAL (V/Ph/Hz)	REMARKS
DHWT-1	DHW TANK	MECH CLOSET	ALLIED ENGINEERING - SUPER HOT	EPP-60-DC	NA	NA	60 GALLON. TWO INTERNAL SINGLE WALLED HEAT EXCHANGERS FOR USE WITH NON-TOXIC GLYCOL ONLY.
EB-1	INSTANTANEOUS BOILER	MECH CLOSET	HUBELL	110-2	1.2-2.5	240/1/60	100 AMP SERVICE REQUIRED, FLA = 45.8 AMPS
ION-1	CU-AG IONIZER	MECH CLOSET	LIQUITECH	QLTF4+3	3	120/1/60	

APPLIANCE SCHEDULE										
TAG No.	SERVICE	LOCATION	MANUFACTURER	MODEL No.	ELECTRICAL (V/Ph/Hz)	BREAKER (Amp)	SANITARY CONNECTION (in.)	DGW/DHW CONNECTIONS (in.)	EXHAUST CONNECTION (in.)	REMARKS
W-1	CLOTHES WASHER	BATHROOM	BOSCH	WFL2090	120/1/60	15	3 (STANDPIPE)	3/4	-	REFER TO P-101, P-104 AND INSTALLATION MANUAL FOR FURTHER INFORMATION.
	CLOTHES DRYER	BATHROOM	BOSCH	WTEB6300US	240/1/60	13	-	-	4	REFER TO M-102 AND INSTALLATION MANUAL FOR FURTHER INFORMATION.
DW-1	DISHWASHER	KITCHEN - CORE	FISHER & PAYKEL	DD24SI	120/1/60	15	3/4 (WASTE TEE)	3/8	-	REFER TO P-101, P-104 AND INSTALLATION MANUAL FOR FURTHER INFORMATION.
	REFRIDGERATOR	KITCHEN - CORE	LIEBHERR	HCL060	120/1/60	-	-	3/4	-	
NOTE: THIS SCHEDULE ONLY CONSIDERS APPLIANCES WITH MECHANICAL CONNECTIONS.										

EXHAUST FAN SCHEDULE						
TAG No.	LOCATION	MANUFACTURER	MODEL No.	EXHAUST CAPACITY (CFM)	ELECTRICAL	REMARKS
KEF-1	KITCHEN	NUTONE	ILF250	250	120/1/60	TO BE INSTALLED AT EXHAUST PENETRATION

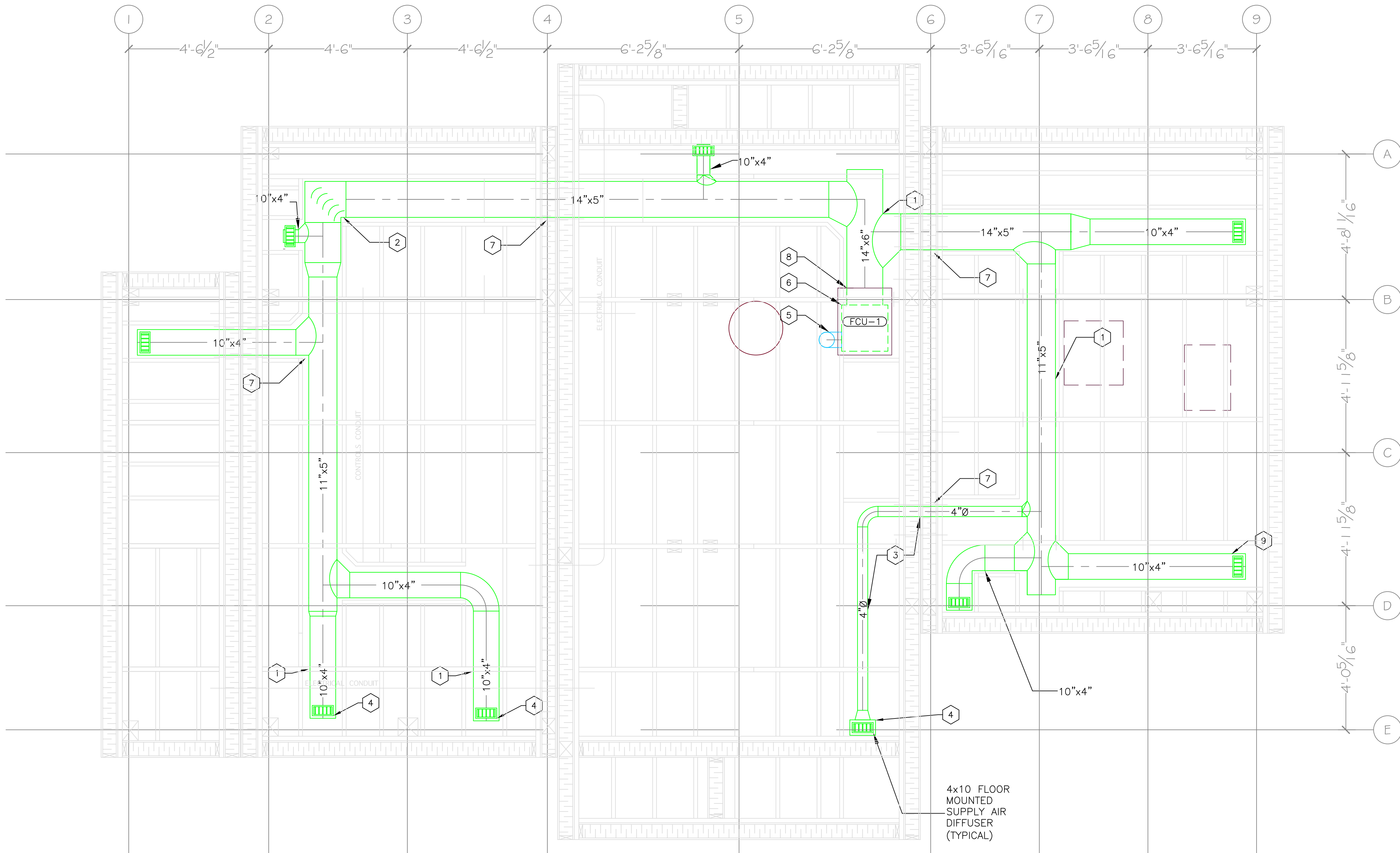


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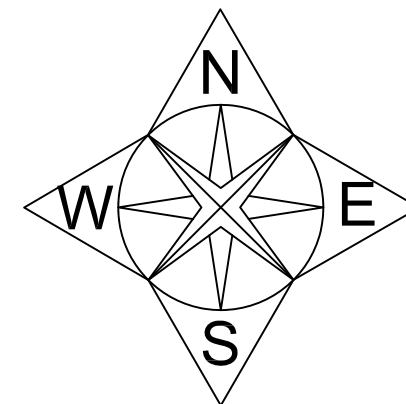
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SHEET #: M-002	



1
M-101 VENTILATION PLAN - LOW LEVEL
1/2" = 1' 0"

LOW LEVEL VENTILATION PLAN - KEY NOTES

- | | | | |
|---|---|---|--|
| 1 | SUPPLY AIR LOCATED BELOW FLOOR - COORDINATE PLACEMENT WITH FLOOR JOIST SPACING. | 6 | PROVIDE PRESSURIZED PLENUM AT 18"x18" FOR IMPROVED AIRFLOW FROM ELEVATED FCU-1 TO SUPPLY AIR MAIN. PLENUM TO HAVE SCOOP TRANSITION TO DIRECT AIR INTO THE DISTRIBUTION NETWORK & 1/2" ACOUSTIC INSULATION. |
| 2 | RECTANGULAR ELBOW C/W TURNING VANES. | 7 | FLANGED AND GASKETED TRANSITION AT MODULE CONNECTION FOR PROPER SEAL. |
| 3 | 4"Ø SUPPLY AIR DUCT TO BE COORDINATED WITH DOMESTIC WATER PIPING AND SANITARY STANDPIPE. | 8 | OFFSET TRANSITION FROM PLENUM TO MAIN DUCT RESULTS IN A 3/4" DROP. |
| 4 | COORDINATE DIFFUSER PLACEMENT WITH SOLAR THERMAL PIPING (REFER TO P-101). | 9 | KICK PLATE REGISTER TO BE COORDINATED WITH MILLWORK. |
| 5 | OUTDOOR AIR SUPPLY TO TIE INTO SUPPLY AIR MAIN BELOW FCU-1. REFER TO M-102 & SECTION ON P-102 FOR CONTINUATION. | | |



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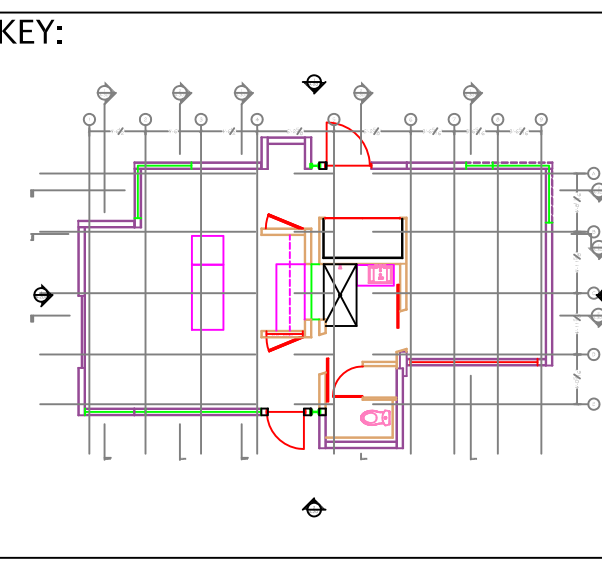
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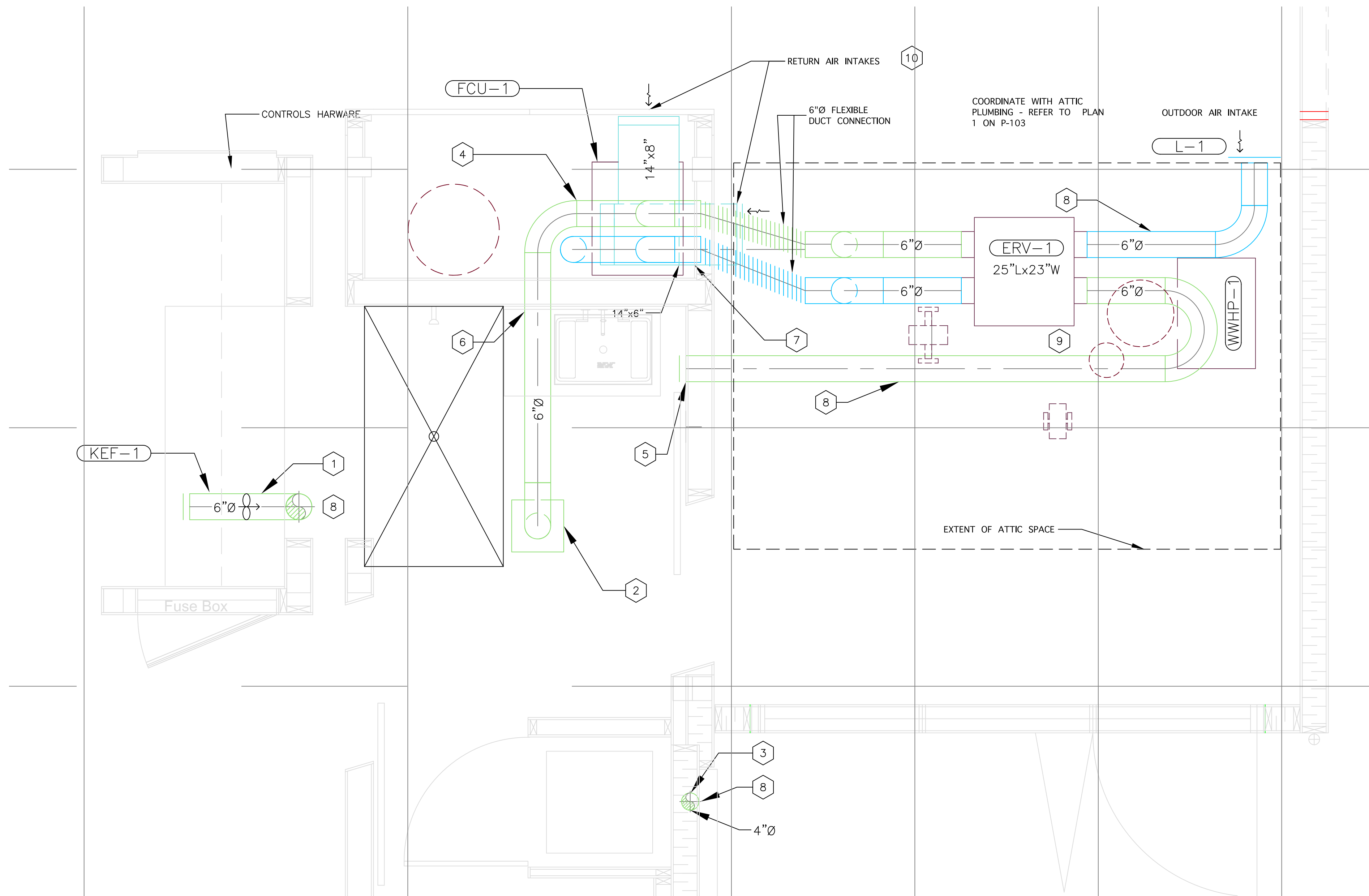
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1/2" = 1' 0"

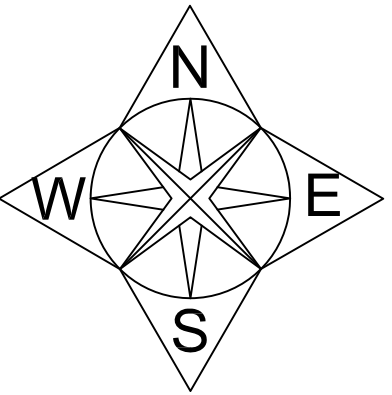
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L.L. VENT. PLAN

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M-101

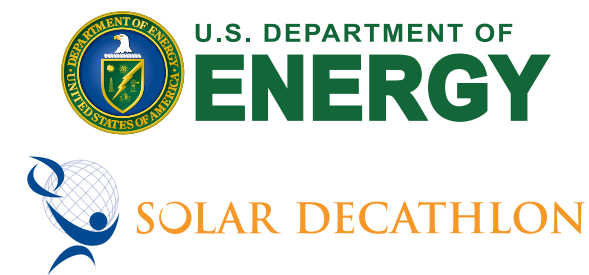


1 VENTILATION PLAN - HIGH LEVEL
M-102 3/4" = 1' 0"

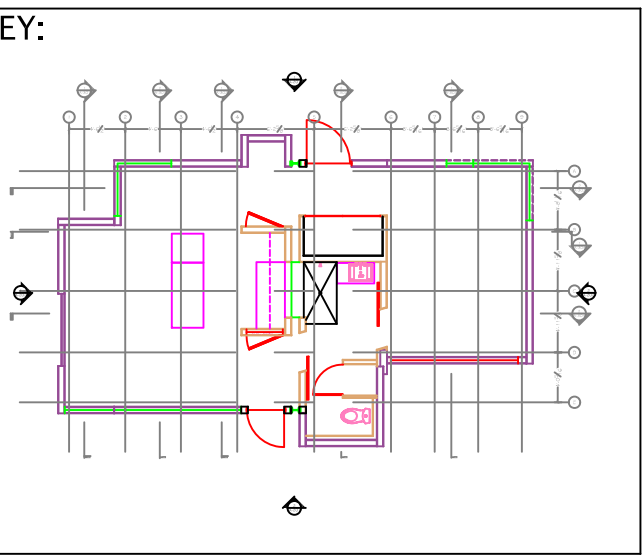
HIGH LEVEL VENTILATION PLAN - KEY NOTES	
1 KITCHEN EXHAUST INTEGRAL WITH CABINETRY ABOVE SINK. EXHAUST TO TERMINATE IN PARAPET C/W TYPICAL GOOSENECK AND BIRDSCREEN.	6 6"Ø EXHAUST TO RUN IN CEILING SPACE, COORDINATE WITH SANITARY VENTING (REFER TO P-104)
2 BATHROOM GRILLE LOCATION TO BE COORDINATED WITH CEILING JOIST SPACING AND INTERIORS.	7 RECTANGULAR RETURN AIR DUCTWORK TO FEED INTO FCU-1. OUTDOOR AIR SUPPLY TO TIE INTO SUPPLY AIR MAIN BELOW - REFER TO M-101 & P-103.
3 DRYER EXHAUST TO TERMINATE IN PARAPET. C/W GOOSENECK AND BIRDSCREEN.	8 INSULATE EXHAUST AND OUTDOOR AIR DUCTWORK RUNNING TO THE EXTERIOR OF THE HOUSE EXTENDING FROM THE UNIT TO PENETRATION.
4 COORDINATE EXHAUST AIR DUCTWORK IN MECHANICAL ROOM WITH STRUCTURAL CEILING JOISTS FOR SUITABLE ENTRY INTO BATHROOM.	9 ERV-1 TO BE HUNG FROM BEAMS. ALLOW O/A DUCTWORK TO RUN OVERTOP WWHP-1 AND ENSURE FILTER ACCESS. USE VIBRATION ISOLATORS ON HANGERS FOR VIBRATION ISOLATION. REFER TO INSTALLATION MANUAL FOR DETAILED ASSEMBLY INSTRUCTIONS.
5 EXHAUST FROM ERV-1 TO TERMINATE IN SIDEWALL C/W BIRDSCREEN.	10 RETURN AIR DUCTS TO BE LINED WITH ACOUSTIC INSULATION FOR NOISE ATTENUATION



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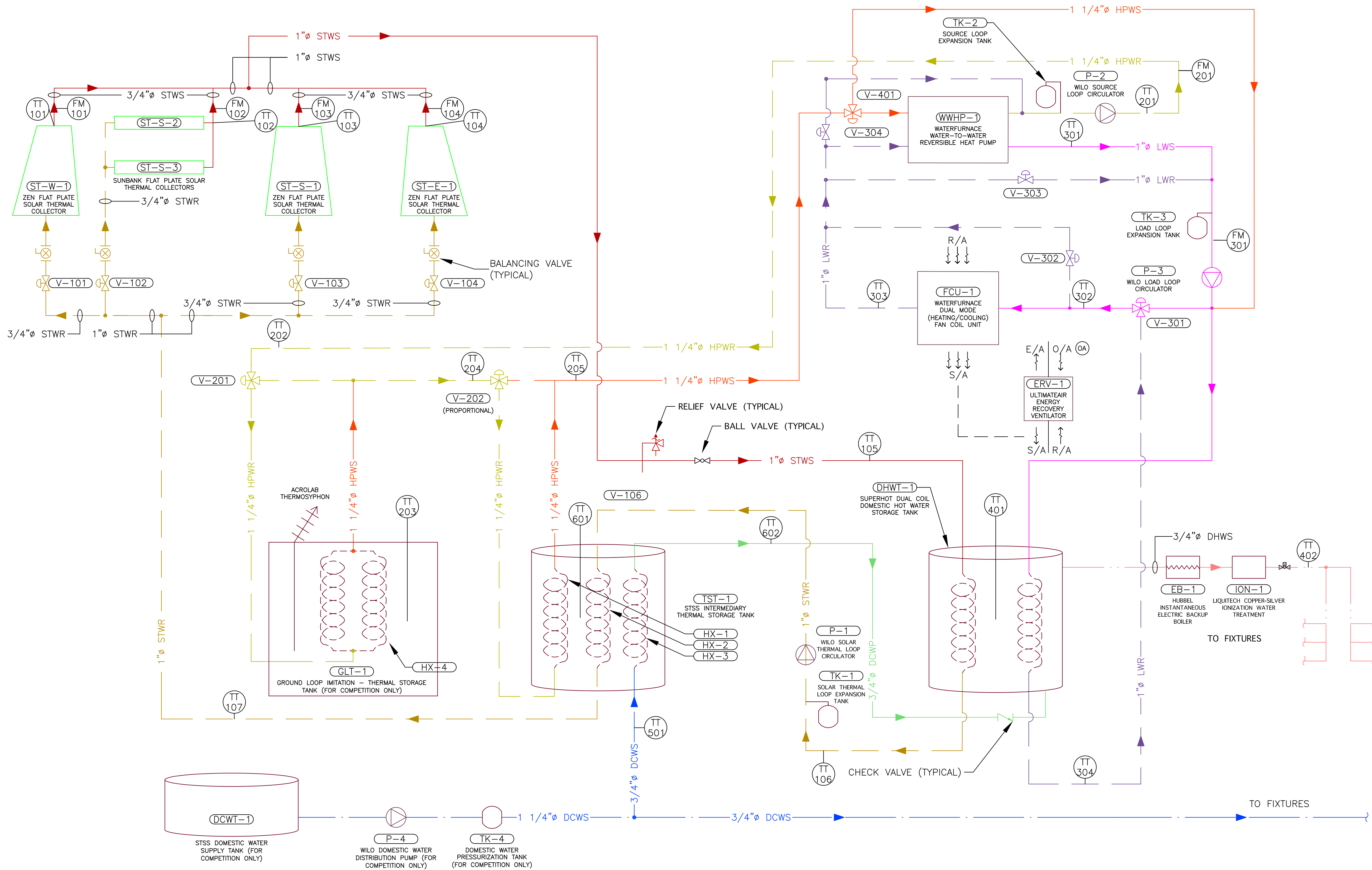


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DATE:	2009/05/30
SCALE:	3/4" = 1' 0"
SHEET TITLE:	H.L. VENT. PLAN
SHEET #:	M-102



1 MECHANICAL SYSTEMS SCHEMATIC
M-103 N.T.S

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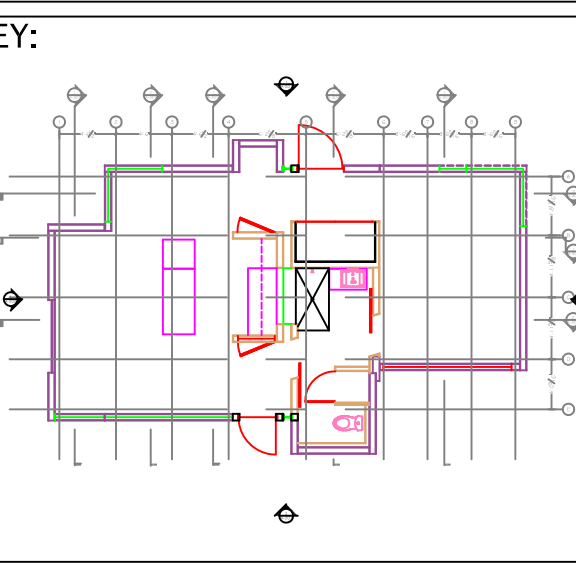
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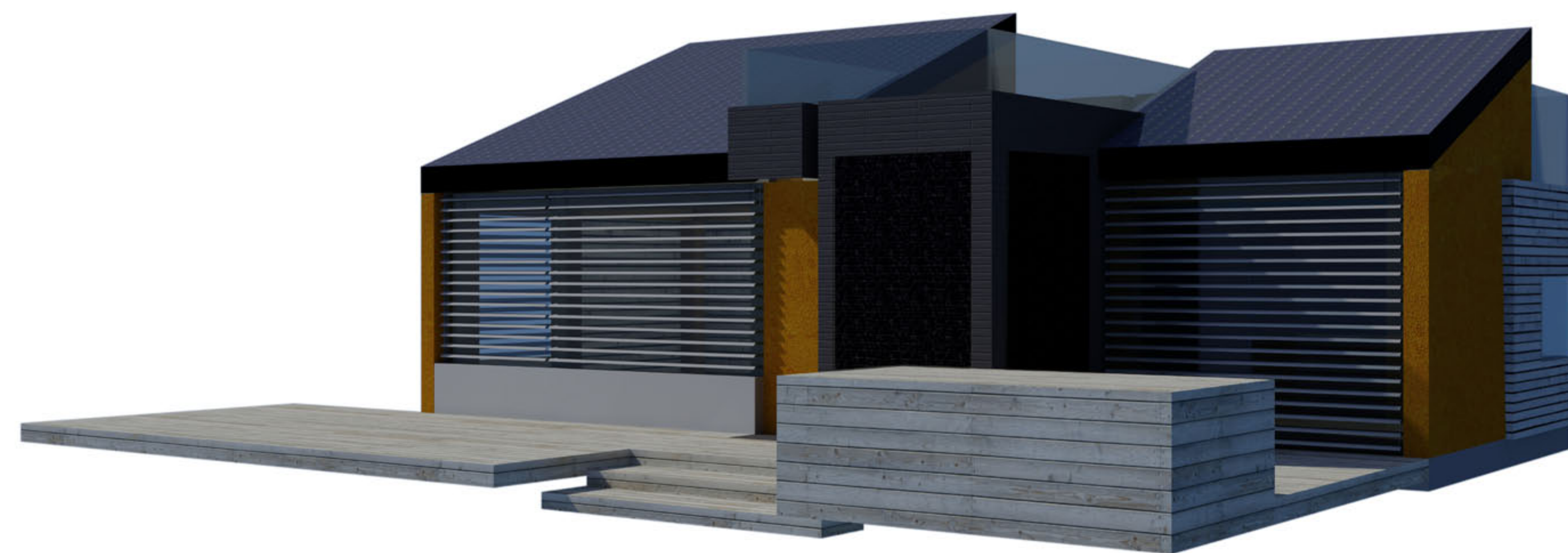
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SYSTEM SCHEMATIC

SHEET #:
M-103










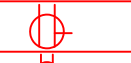




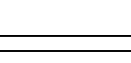
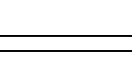




General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations

LIGHTING FIXTURE SCHEDULE													
CODE	SYMBOL	DESCRIPTION	LAMPS			LENS	FINISH	COLOUR	MANUF.	MODEL #	MOUNTING NOTES	QTY	NOTES
			TYPE	VOLTS	WATTS								
L1		DIRECT/INDIRECT HORIZONTAL STRIP LED (1-1'SECTIONS)	COOL WHITE LED	12VDC	3.85W	-	ALUMINUM & GLASS	-	NEMALUX	BFLED-CW (WITH CUSTOM HOUSING)	WALL MOUNT	2	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L2		HORIZONTAL STRIP LED (2-1' SECTIONS 3.85W/+1-6" JUMPER)	COOL WHITE LED	12VDC	7.7W	-	ALUMINUM & GLASS	-	NEMALUX	BFLED-CW (WITH CUSTOM HOUSING)	WALL MOUNT	5	REQUIRES EXTERNAL POWER SUPPLY PS1. REQUIRES DIMMABLE DRIVERS DR1 (QTY 2) AND DR2 (QTY 1)
L3		VERTICAL STRING LED (W JUMPERS & DRIVERS AS REQUIRED)	COOL WHITE LED	12VDC	7.5W	-	-	-	NEMALUX	STRING LED-7.5-CW-CCD	SECURED TO VERTICAL FACE	2	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L4		HORIZONTAL STRIP LED (W/JUMPERS & DRIVERS AS REQUIRED)	COOL WHITE LED	12VDC	7.7W	-	-	-	NEMALUX	BFLED-CW	HORIZONTAL RECESSED IN COVE - REFER TO DETAILS	17	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L5		HORIZONTAL LED	COOL WHITE LED	12VDC	23.1W	100º	-	WHITE	NEMALUX	GSLED36-6-CW-W-WHT	RECESSED INTO COVE/MILLWORK - REFER TO DETAILS	1	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L6		RECESSED POTLIGHT	COOL WHITE LED	12VDC	7.7W	CLEAR 100º	ALUMINUM	-	NEMALUX	RECLED-6-CW-W-ALU	IN CEILING	11	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1; USES DIMMABLE DRIVERS DR1 OR DR2 AS NOTED ON E-102
L7		6" MICRO TITAN PENDANT (#1 SUBSCRIPT - 12" LENGTH)	WHITE 5500K	12VDC	1W	-	ALUMINUM	-	SISTEMALUX	6" 1079-00 12" 1078-00	MOUNTING HEIGHTS REFERENCED ON PLAN AFF TO U/S FIXTURE	9	REQUIRES EXTERNAL POWER SUPPLY PS1. REQUIRES DIMMABLE DRIVERS DR1 (QTY 2); DRIVER CAN BE USED IN NON-DIMMING MODE. SEE NOTE ON E-102
L8		WATERPROOF CLG WOUNT	COOL WHITE LED	12VDC	7.7W	CLEAR 100º	ALUMINUM	-	NEMALUX	RECLED-6-CW-W-WATERPROOF	RECESSED IN CEILING	1	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L9		Z-BAR MINI TASK LAMP	COOL WHITE LED	120V AC	6.5W	-	ALUMINUM	SILVER	KONCEPT	HL3100D-SIL	-	1	4 DIMMING LEVELS
L10		PV PATHWAY/DECK LIGHTS	COOL WHITE LED	-	-	-	STAINLESS STEEL		SOLAR LIGHTING DIRECT	SD-TV8V8	MOUNT TO DECK SURFACE	8	SELF POWERED - STAND ALONE SOLARLIGHTINGDIRECT.COM CAPACITY: 1.68 Wh
L11		OUTSIDE DECK UPLIGHTS	WHITE 4100K, STD CRI	12VDC	1.2W	FROST ED	STAINLESS STEEL		MP LIGHTING	L01-1-W41S-30-F- 30-0-S3	MOUNT FLUSH WITH TOP OF DECK SURFACE	4	REQUIRES EXTERNAL POWER SUPPLY PS1. REQUIRES DRIVER DR1 USED IN NON DIMMING MODE.
L12		OUTDOOR RECESSED LIGHT	COOL WHITE LED	12VDC	7.7W	CLEAR 100º	SATIN ALUMINUM	-	NEMALUX	RECLED-6-CW-W-EXTERIOR	RECESSED IN SOFFIT	3	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L13		OUTDOOR RECESSED WALL LIGHT	COOL WHITE LED	12VDC	1.4W	CLEAR	ALUMINUM	-	NEMALUX	PODLED-CW-REC	ON FACE OF EXTERIOR STAIRS, UPPER DECK WALL &	13	INTEGRAL DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L14		VERTICAL STRIP LED (W JUMPERS & DRIVERS AS REQUIRED)	COOL WHITE LED	12VDC	3.85W	-	-	-	NEMALUX	BFLED-CW	SECURED TO VERTICAL FACE	6	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L15		ADJUSTABLE SPOT LIGHT	COOL WHITE LED	12VDC	7.7W	CLEAR 50º	ALUMINUM	-	NEMALUX	CANLED-CW-N	CEILING MOUNT	1	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L16		HORIZONTAL STRIP LED (W/JUMPERS & DRIVERS AS REQUIRED)	COOL WHITE LED	12VDC	1.9W	-	-	-	NEMALUX	BFLED-CW (POWER LIMITED 50%)	HORIZONTAL RECESSED IN COVE - REFER TO DETAILS	6	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L17		VERTICAL LED	COOL WHITE LED	12VDC	11.5W	100º	-	WHITE	NEMALUX	GSLED36-3-CW-W-WHT	VERTICAL MOUNT FACING PARTITION EDGE	2	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1
L18		HORIZONTAL LED	COOL WHITE LED	12VDC	7.7W	100º	-	WHITE	NEMALUX	GSLED12-6-CW-W-WHT	CEILING MOUNT	2	INTEGRAL 350mA DRIVER, REQUIRES EXTERNAL POWER SUPPLY PS1. DIRECT SWITCHED IN MECHROOM OR ATTIC

1
E-001

ELECTRICAL / LIGHTING LEGEND
N.T.S

ELECTRICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SWITCH		SMOKE ALARM
	DIMMING SWITCH		GFI OUTLET
	VIRTUAL SWITCH		STANDARD OUTLET
	FAN		SPECIAL OUTLET
	INTERNET/TELEPHONE		ARC FAULT CIRCUIT INTERRUPTER
	TELEVISION		HARD WIRED
	THERMOSTAT		20 AMP T-SLOT
	DOOR CHIME		PUBLIC DISPLAY
	JUNCTION BOX		DISCONNECT SWITCH

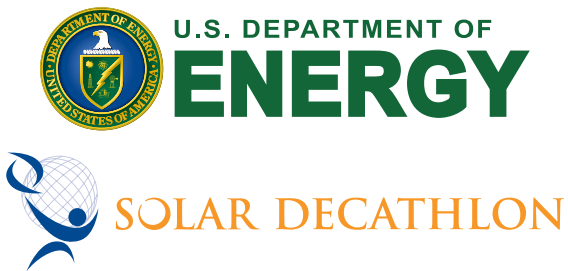
REFLECTED CEILING PLAN
GENERAL NOTES

ALL DIMENSIONS ARE FROM THE
CENTER LINE OF THE LUMINARIES

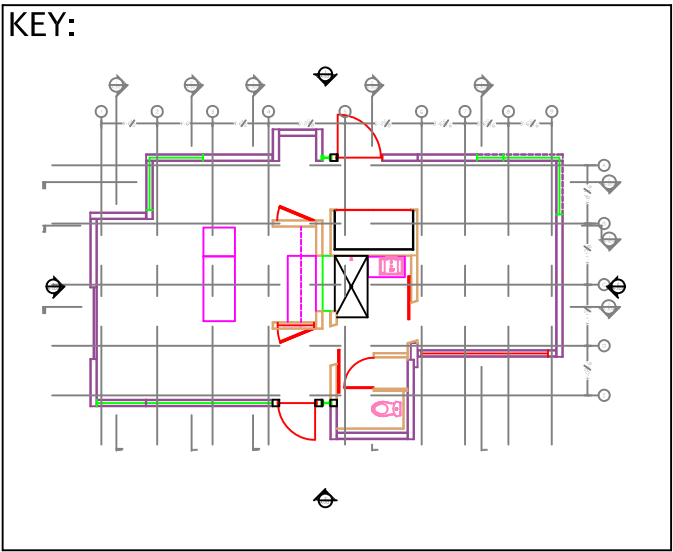
MOUNT CONTROLS CENTRED @
42" AFF



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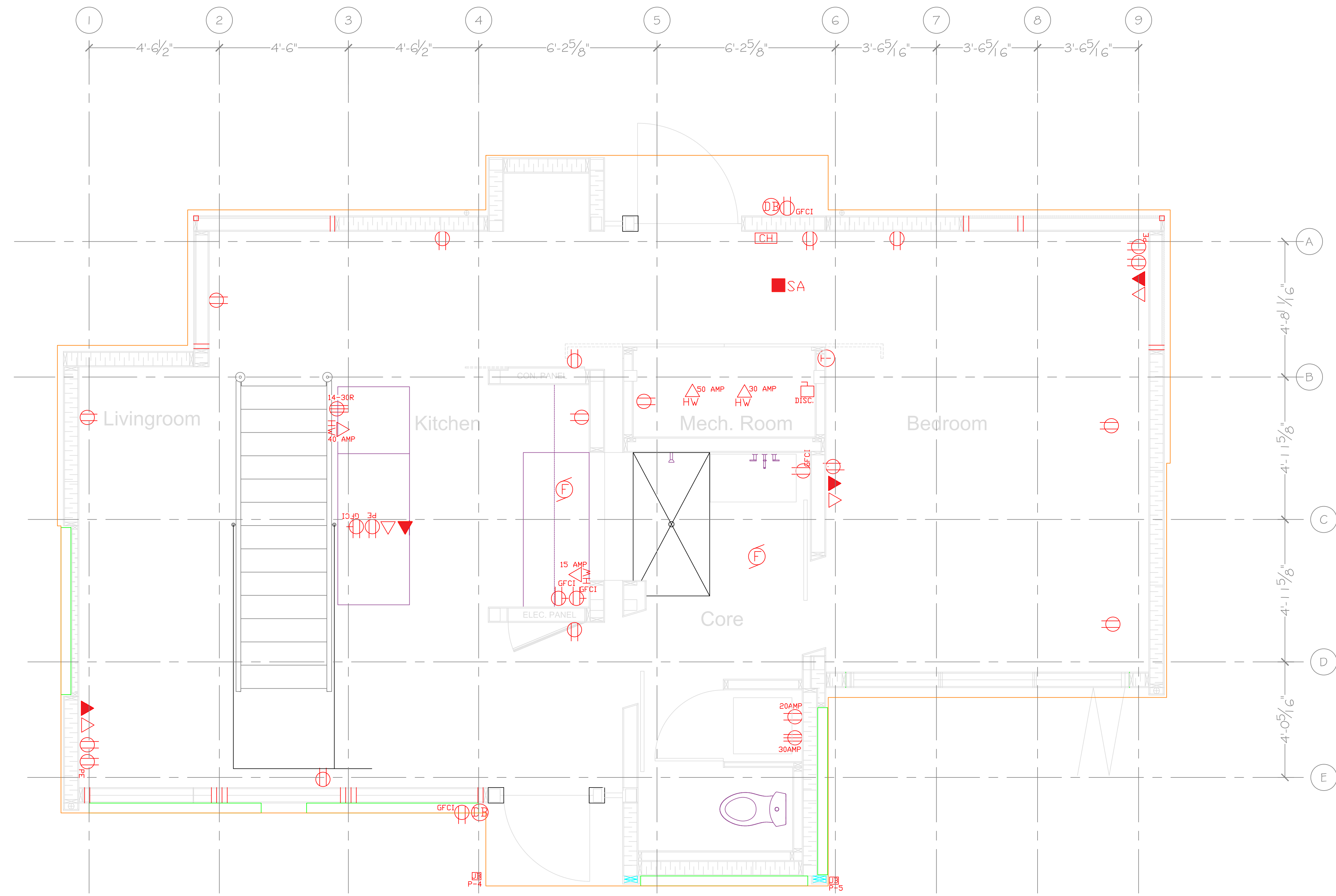


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DATE:	DESCRIPTION

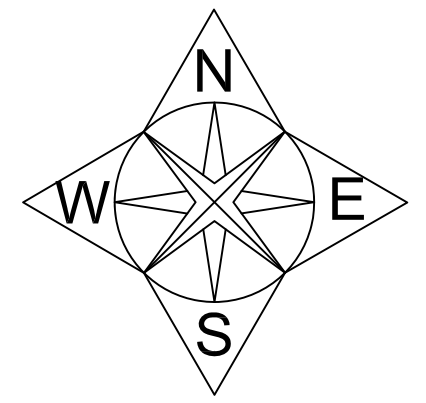
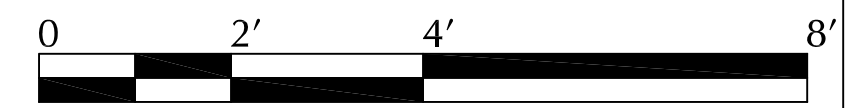


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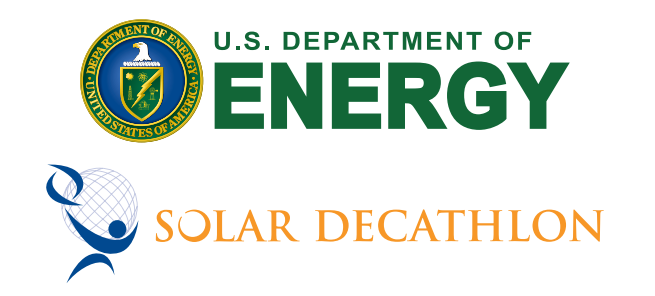
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SHEET TITLE: ELECTRICAL/ LIGHTING LEGEND	
SHEET #: E-001	



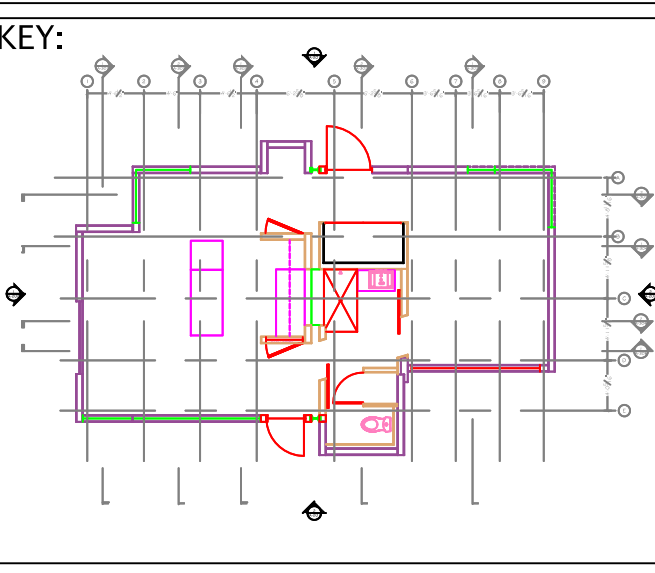
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E-101
ELECTRICAL FLOOR PLAN
1/2" = 1' 0"



Alberta Solar Decathlon Team

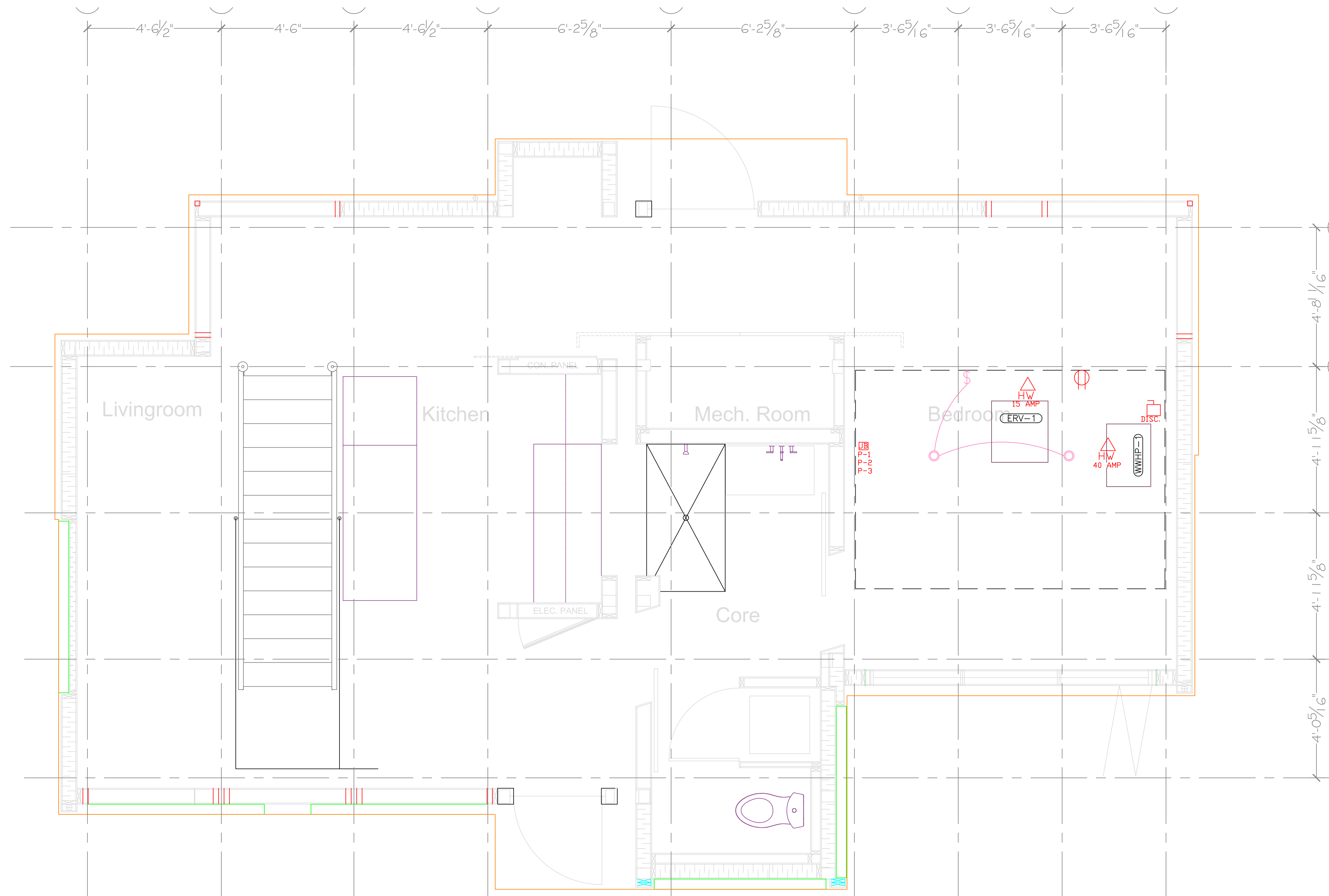


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REVISIONS	
DATE:	DESCRIPTION

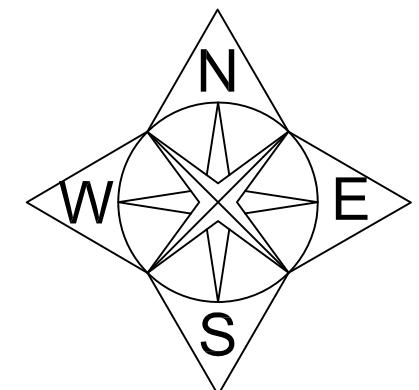


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SCALE: 1/2" = 1' 0"	
SHEET TITLE: ELECTRICAL FLOOR PLAN	
SHEET #: E-101	



1 Electrical Plan
E-102
1/2" = 1' 0"



SolAboode

ALBERTA COLLEGE OF ART • DESIGN
ACAD

MOUNT ROYAL
COLLEGE

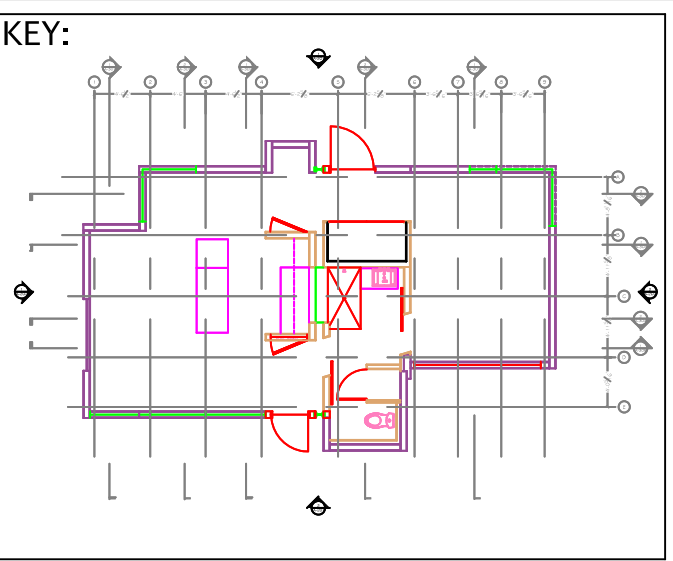
Jait
POLYTECHNIC

UNIVERSITY OF
CALGARY

Alberta Solar Decathlon Team

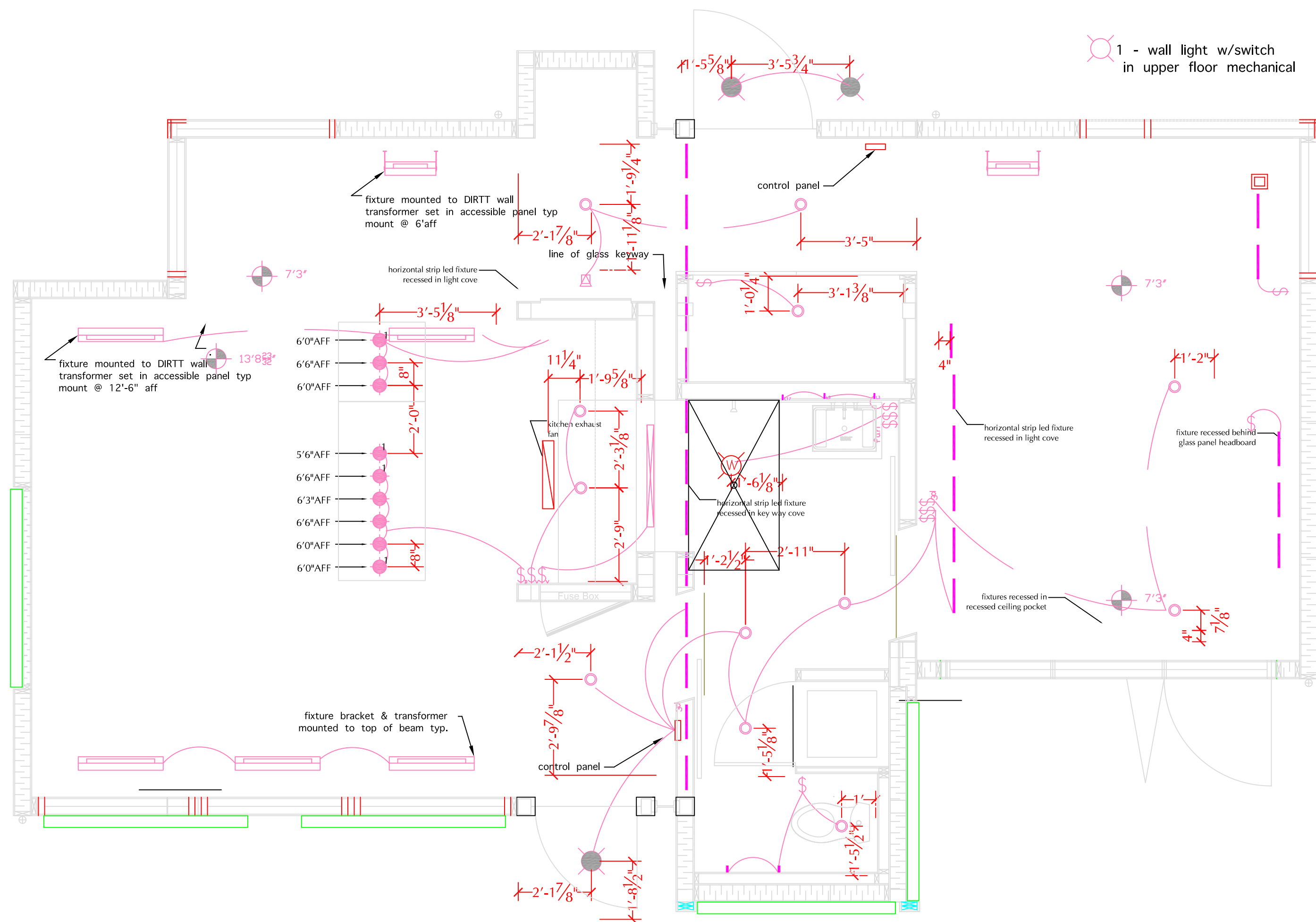
U.S. DEPARTMENT OF
ENERGY
SOLAR DECATHLON

ISSUED DATES	
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REVISIONS	
DATE:	DESCRIPTION

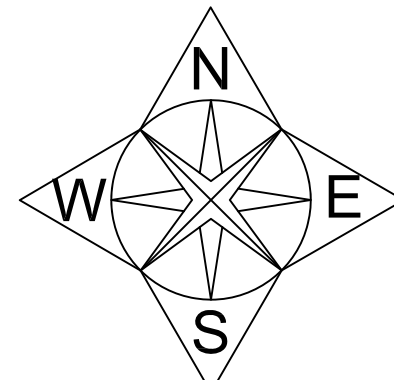







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SCALE:	1/2" = 1' 0"
SHEET TITLE:	ELECTRICAL ATTIC PLAN
SHEET #:	E-102

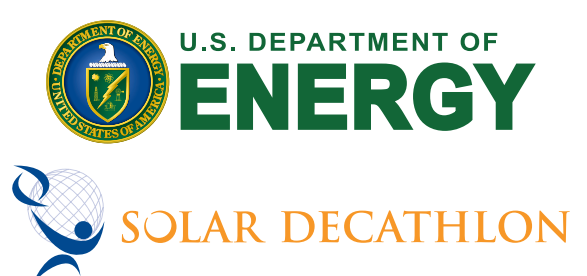


1
E-103 LIGHTING PLAN
3/8" = 1' 0"





Alberta Solar Decathlon Team



SOLAR DECATHLON

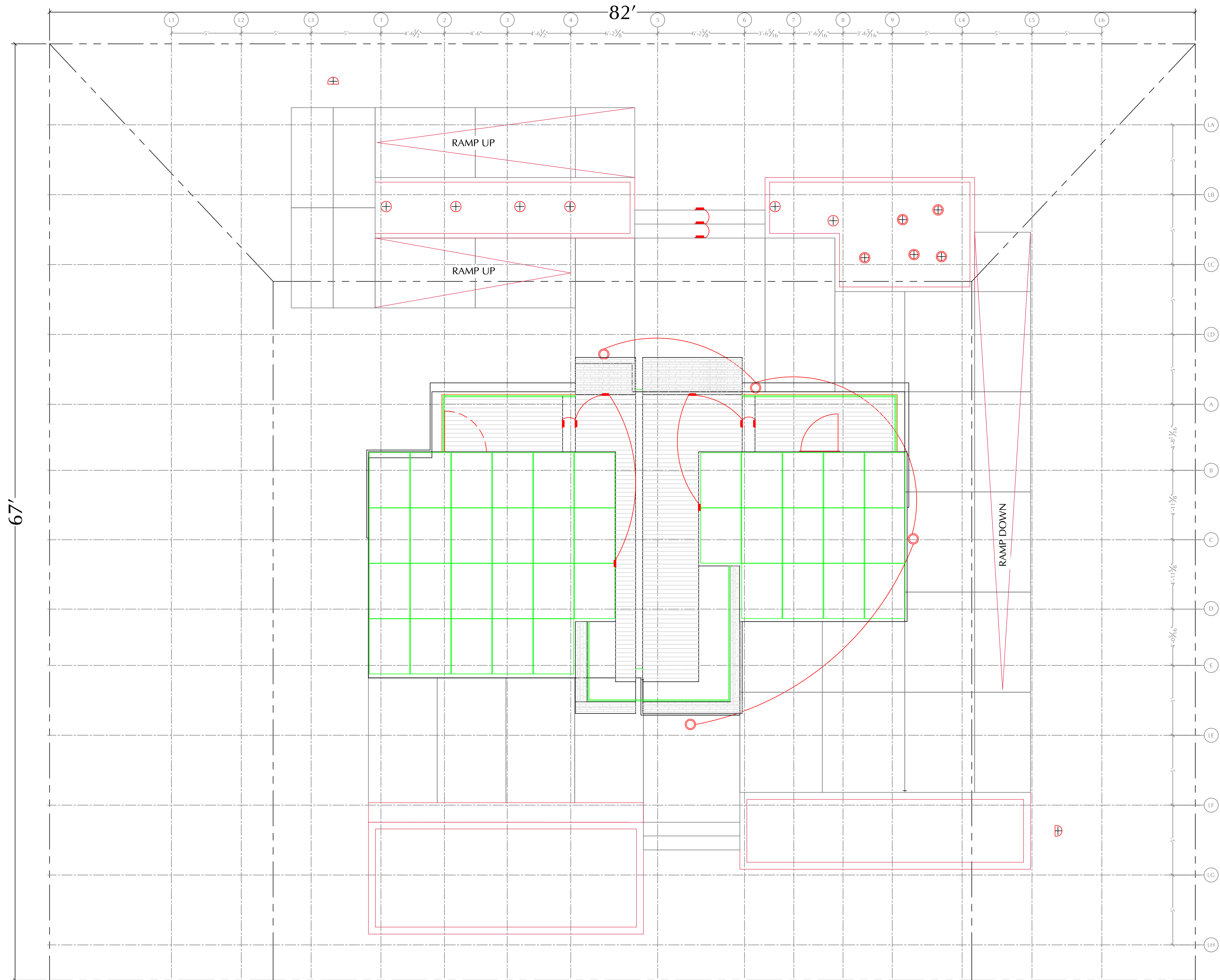
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2009/06/02	CONSTRUCTION SET

REVISIONS	
DATE:	DESCRIPTION

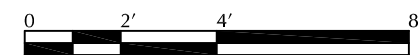
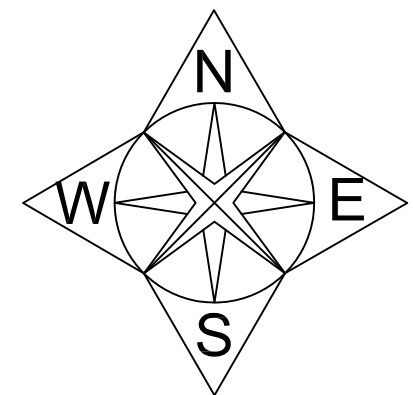
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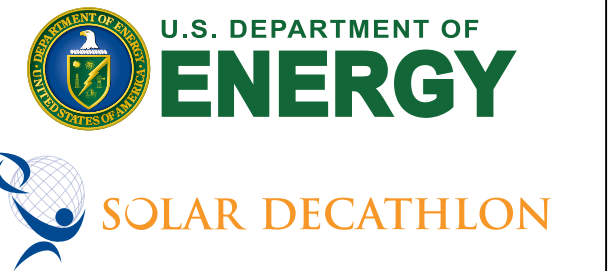
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DATE: 2009/05/30	
SCALE: 3/8" = 1' 0"	
SHEET TITLE: LIGHTING PLAN	
SHEET #: E-103	



1 SITE LIGHTING PLAN
E-104 1/4" = 1' 0"



Alberta Solar Decathlon Team

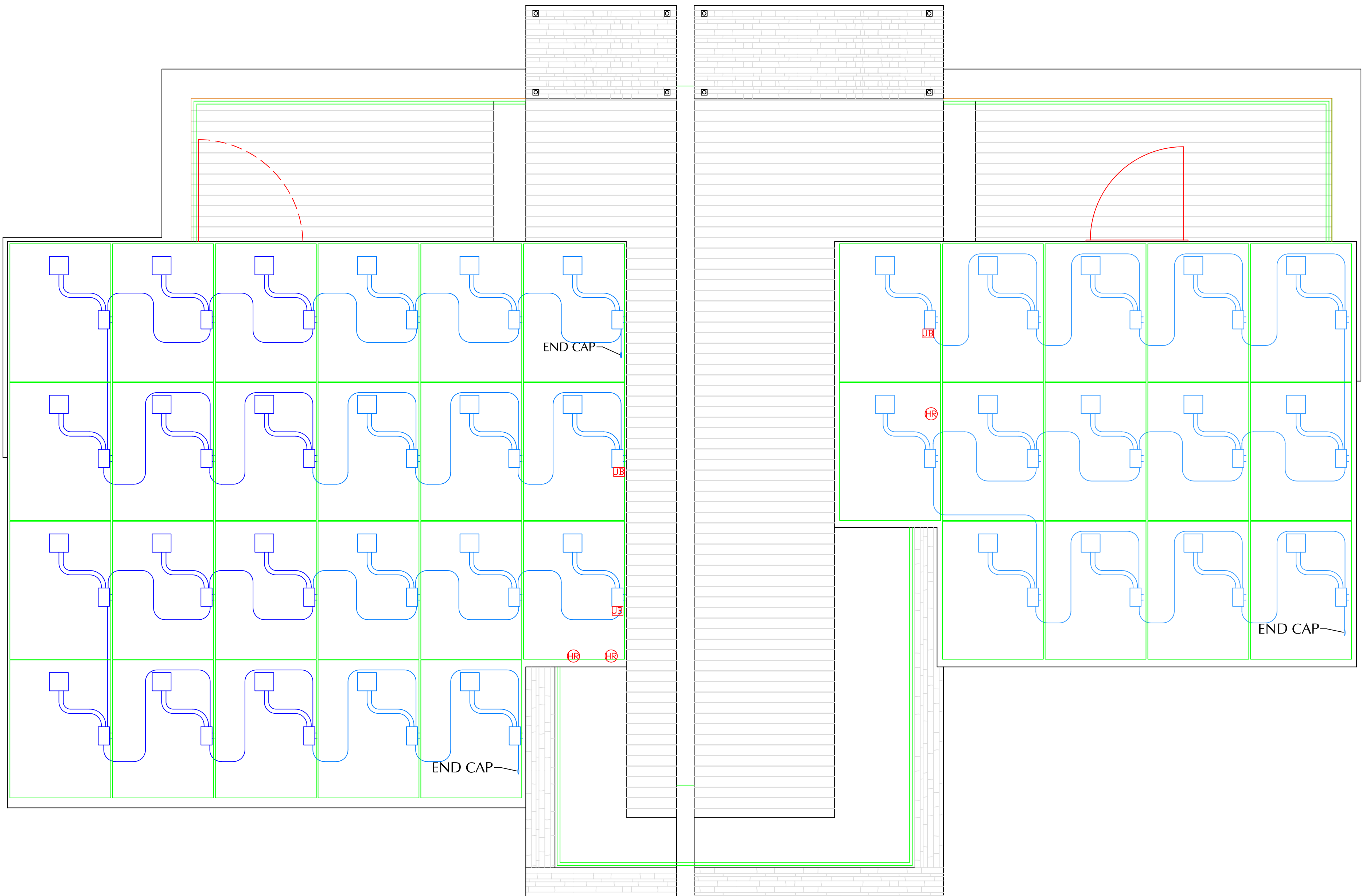


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DATE:	DESCRIPTION

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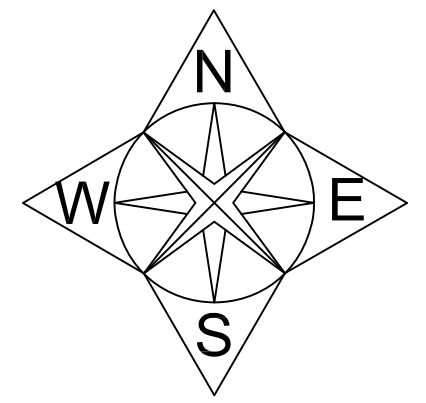
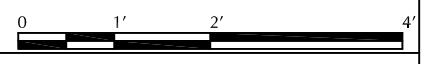
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DRAWN: KM	CHECKED: DMA
DATE:	2009/05/30
SCALE:	1/4" = 1' 0"
SHEET TITLE:	SITE LIGHTING PLAN
SHEET #:	E-104



1
E-105

PV WIRING PLAN
1/2" = 1' 0"



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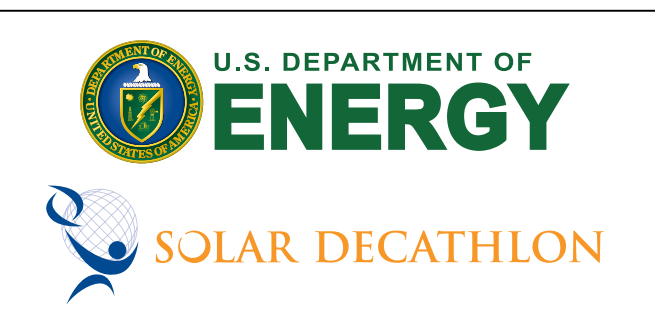
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MOUNT ROYAL COLLEGE

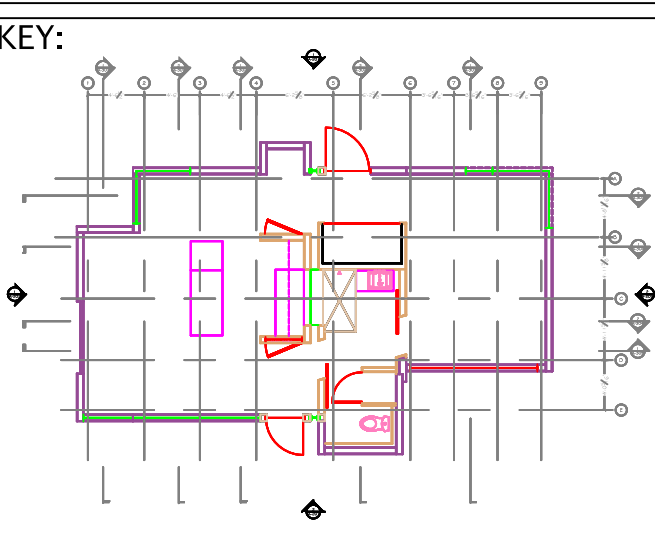
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UNIVERSITY OF CALGARY

Alberta Solar Decathlon Team

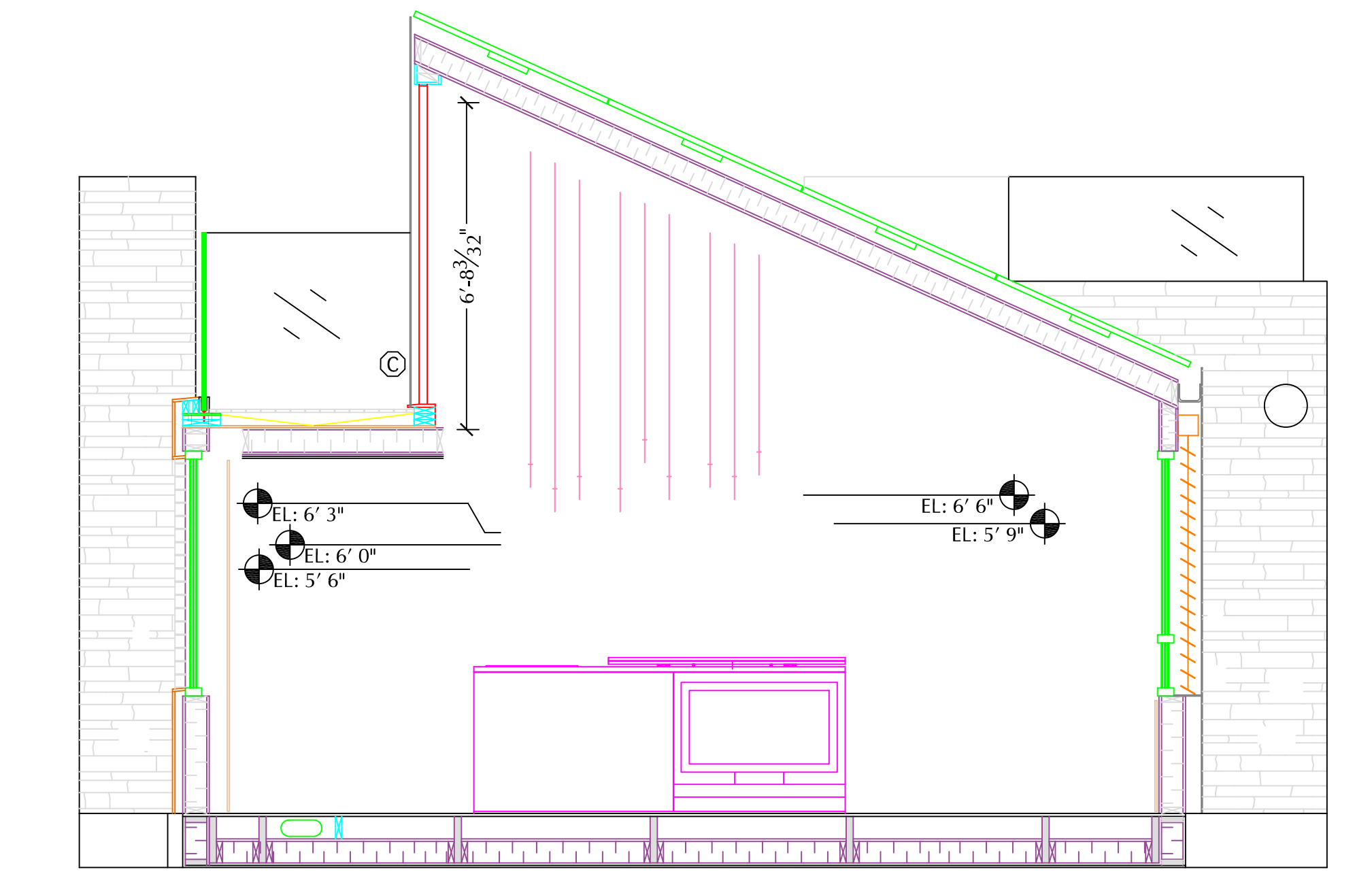


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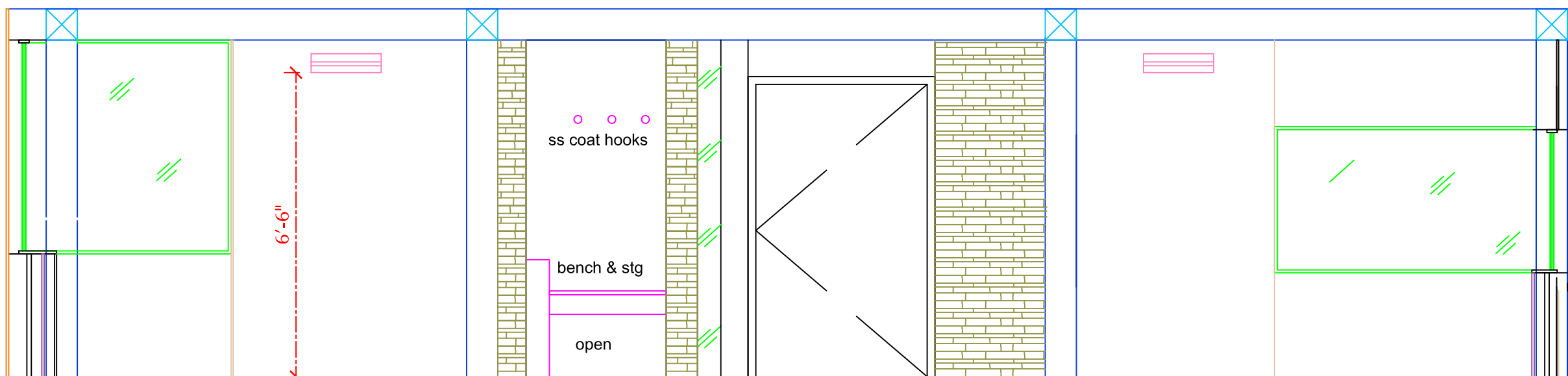


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SCALE:	1/2" = 1' 0"
SHEET TITLE:	PV WIRING PLAN
SHEET #:	E-105



1 KITCHEN LIGHTING ELEVATION
E-201 3/8" = 1' 0"



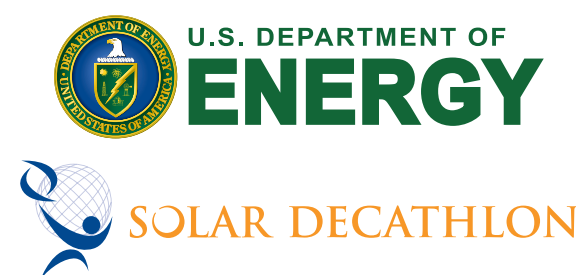
2 NORTH HALLWAY LIGHTING ELEVATION
E-201 3/8" = 1' 0"



NOTES:
THE ISLAND PENDANT LIGHTS ARE TO
BE INSTALLED ACCORDING TO
MANUFACTURE SPECIFICATIONS.



Alberta Solar Decathlon Team



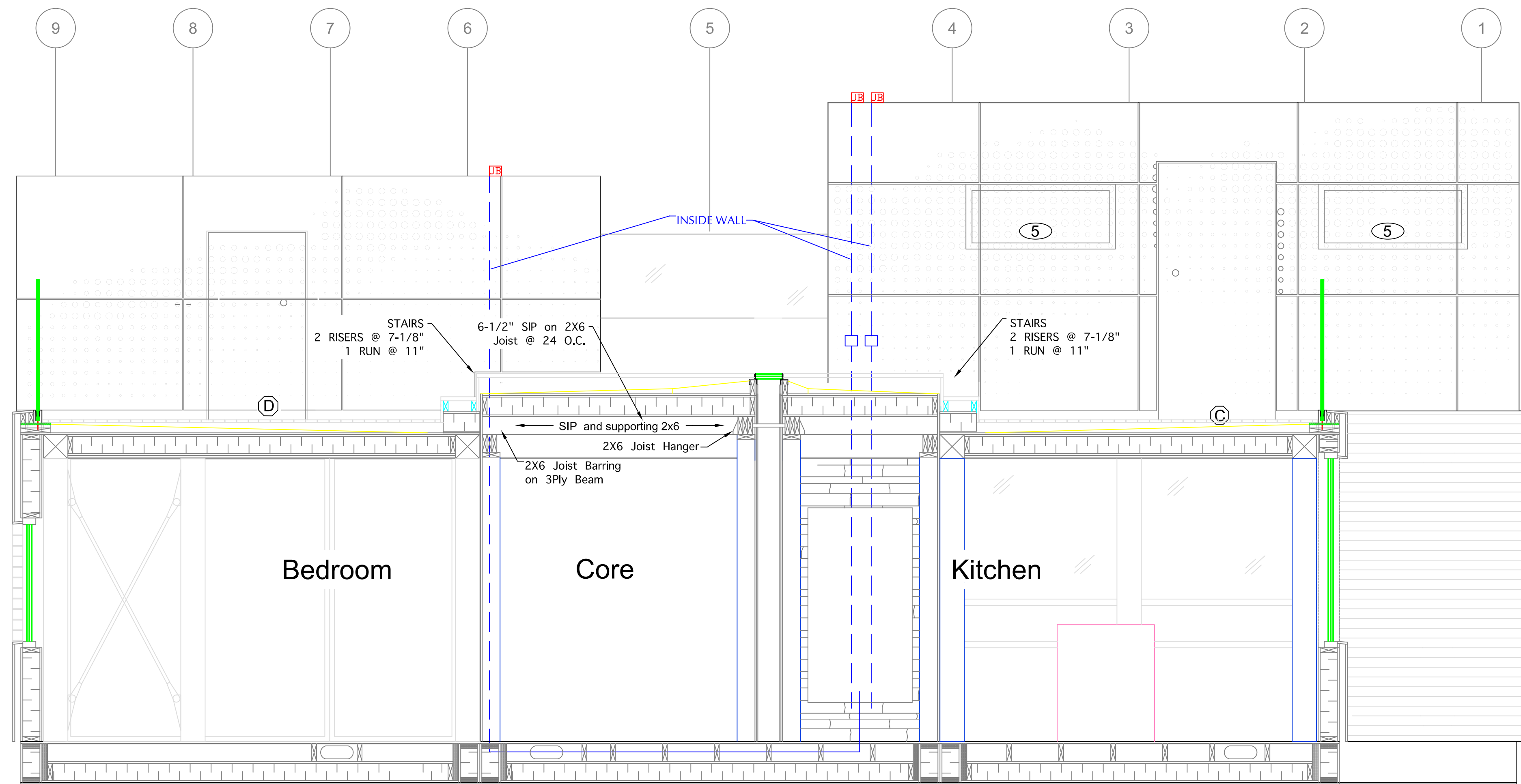
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2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

KEY:

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DRAWN: KM	CHECKED: TH
DATE:	2009/05/30
SCALE:	3/8" = 1' 0"

SHEET TITLE:	LIGHTING ELEVATIONS
SHEET #:	E-201

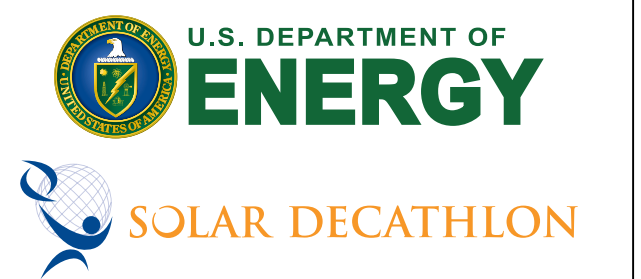


1
E-301

PV WIRING SECTION
1/2" = 1' 0"

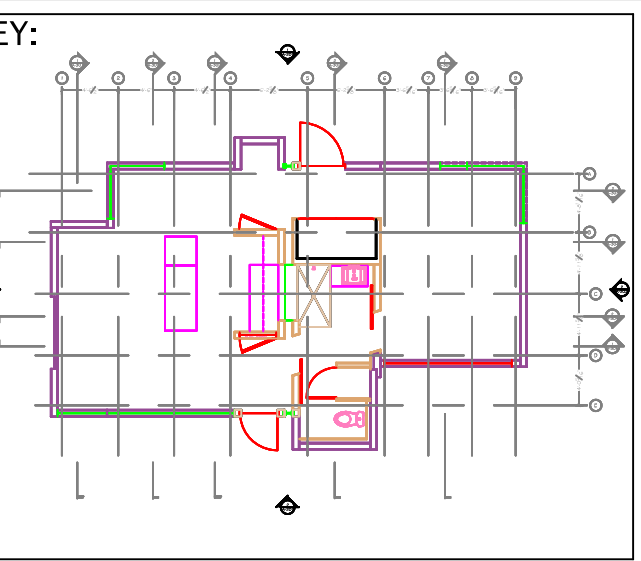


Alberta Solar Decathlon Team



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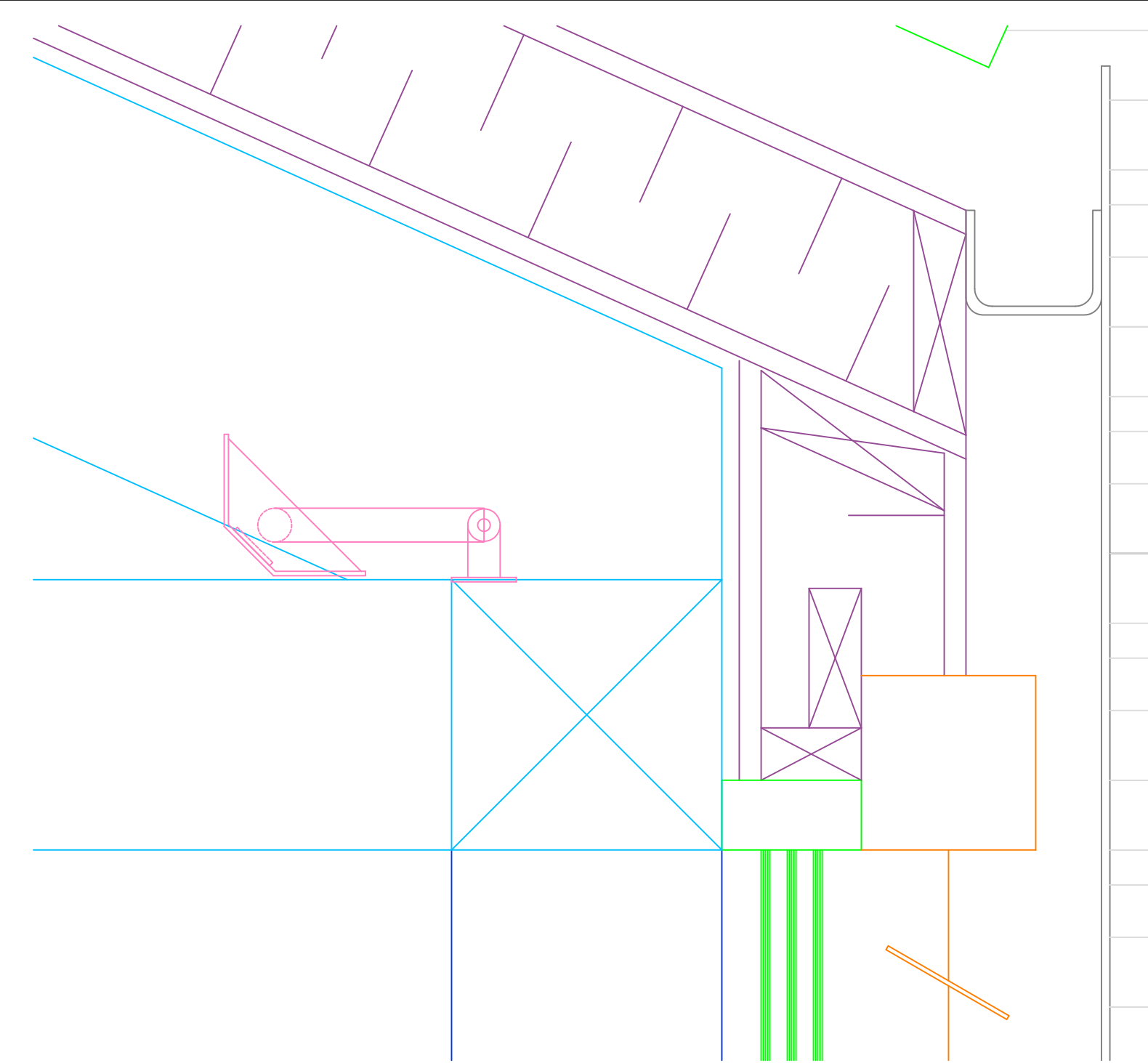
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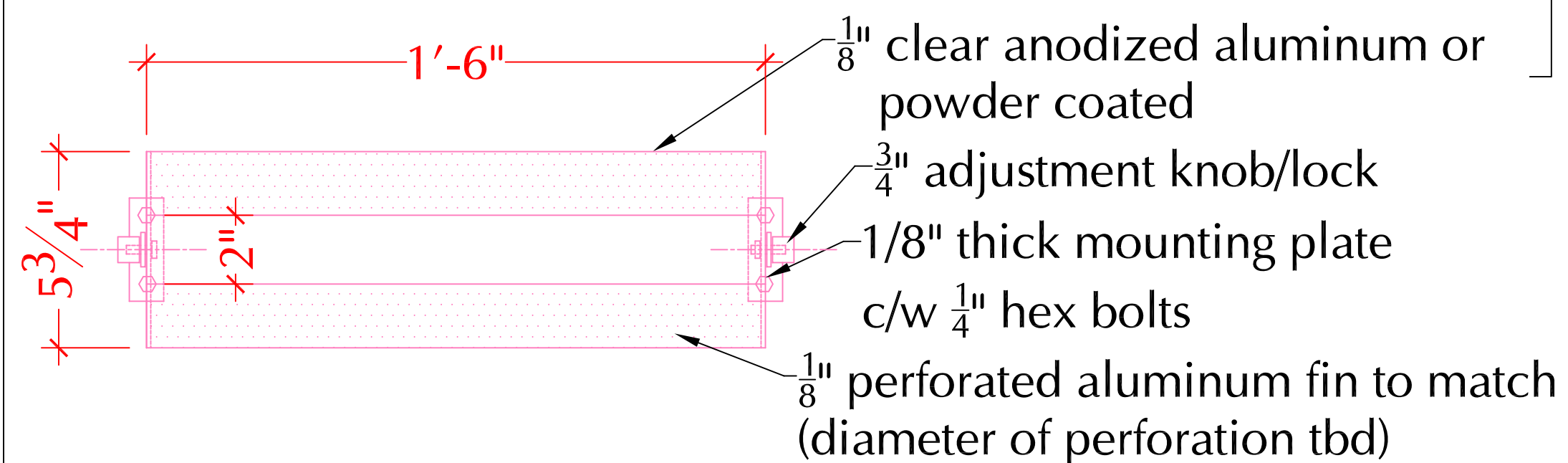
SCALE:
1/2" = 1' 0"

SHEET TITLE:
PV WIRING SECTION

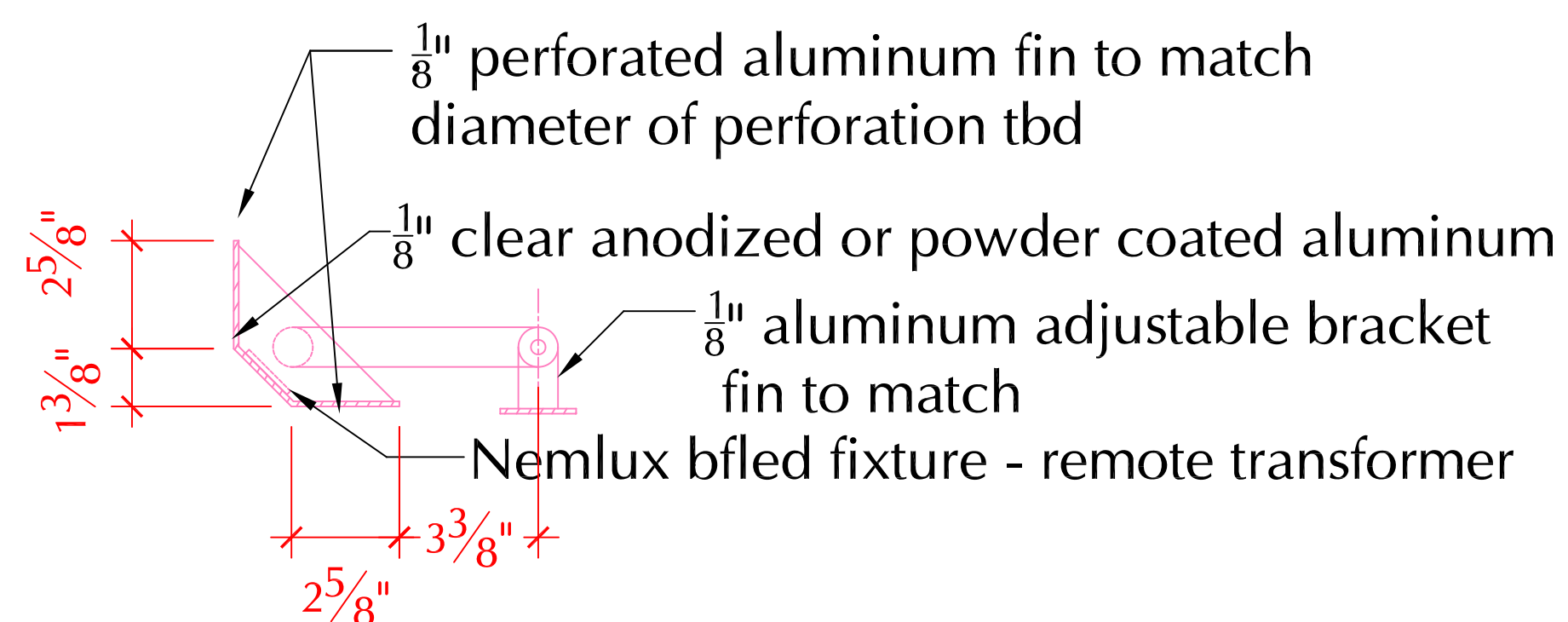
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E-301



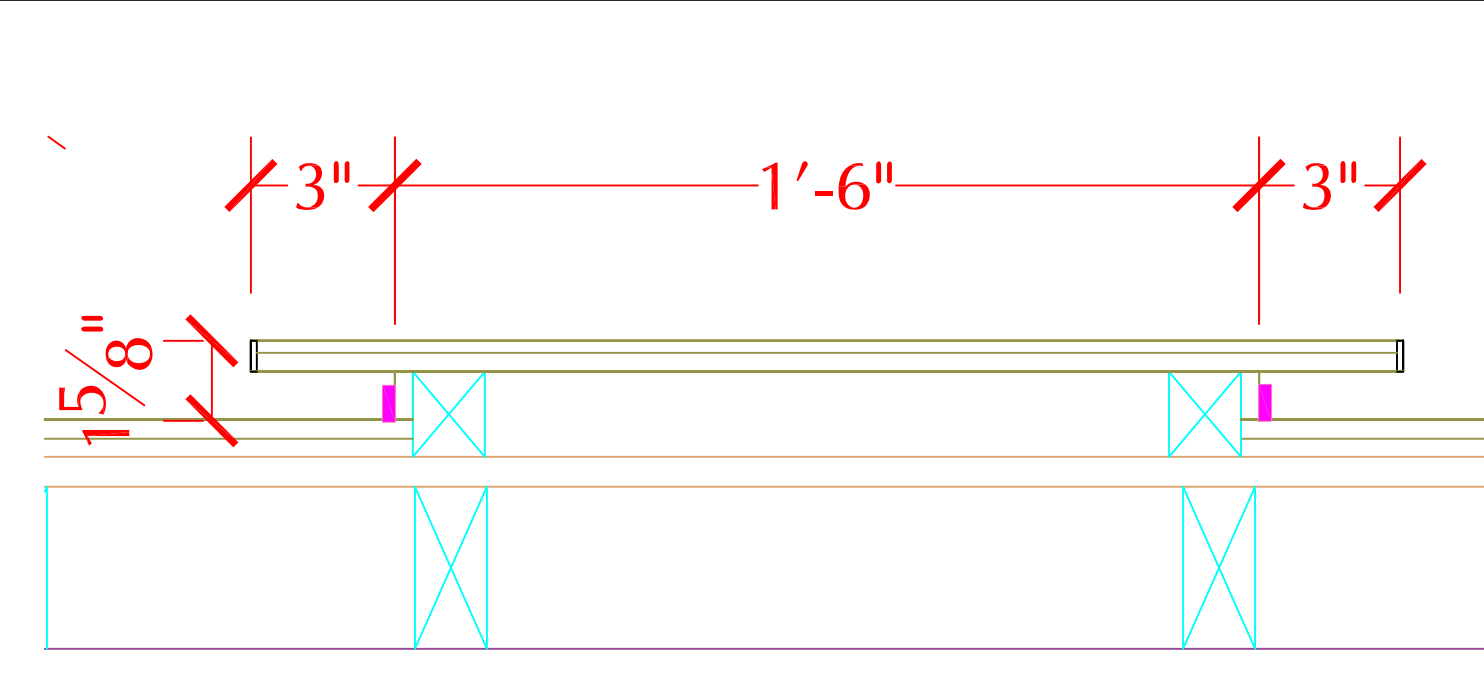
1 LIVING ROOM LIGHT DETAIL
3" = 1' 0"



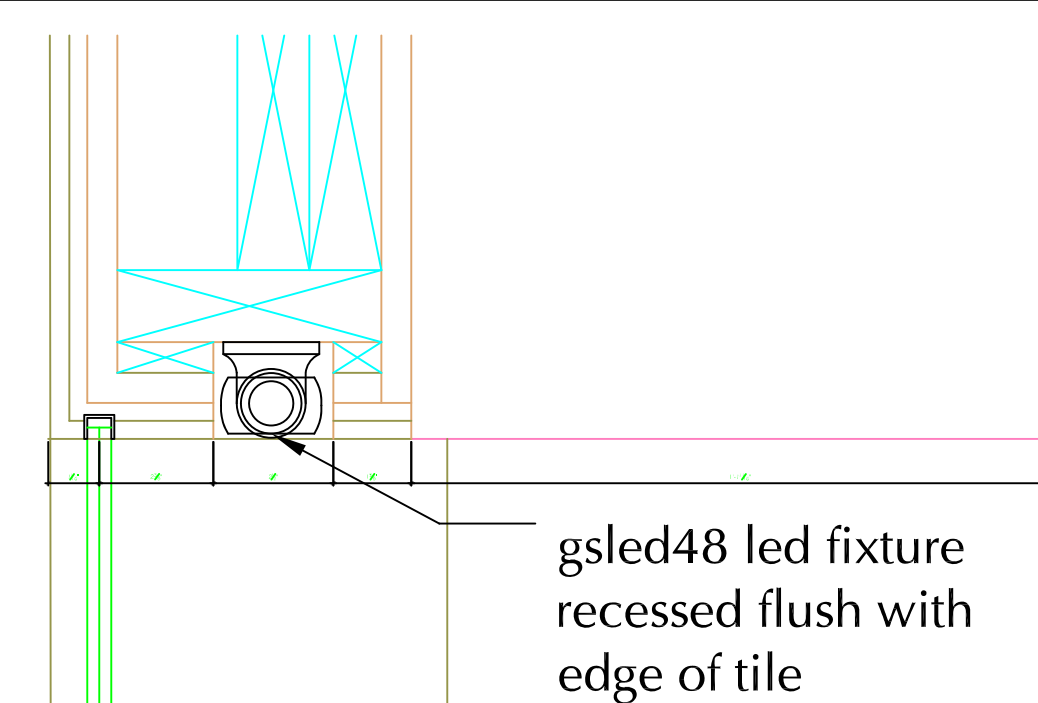
4 18" LIGHT DETAIL
3" = 1' 0"



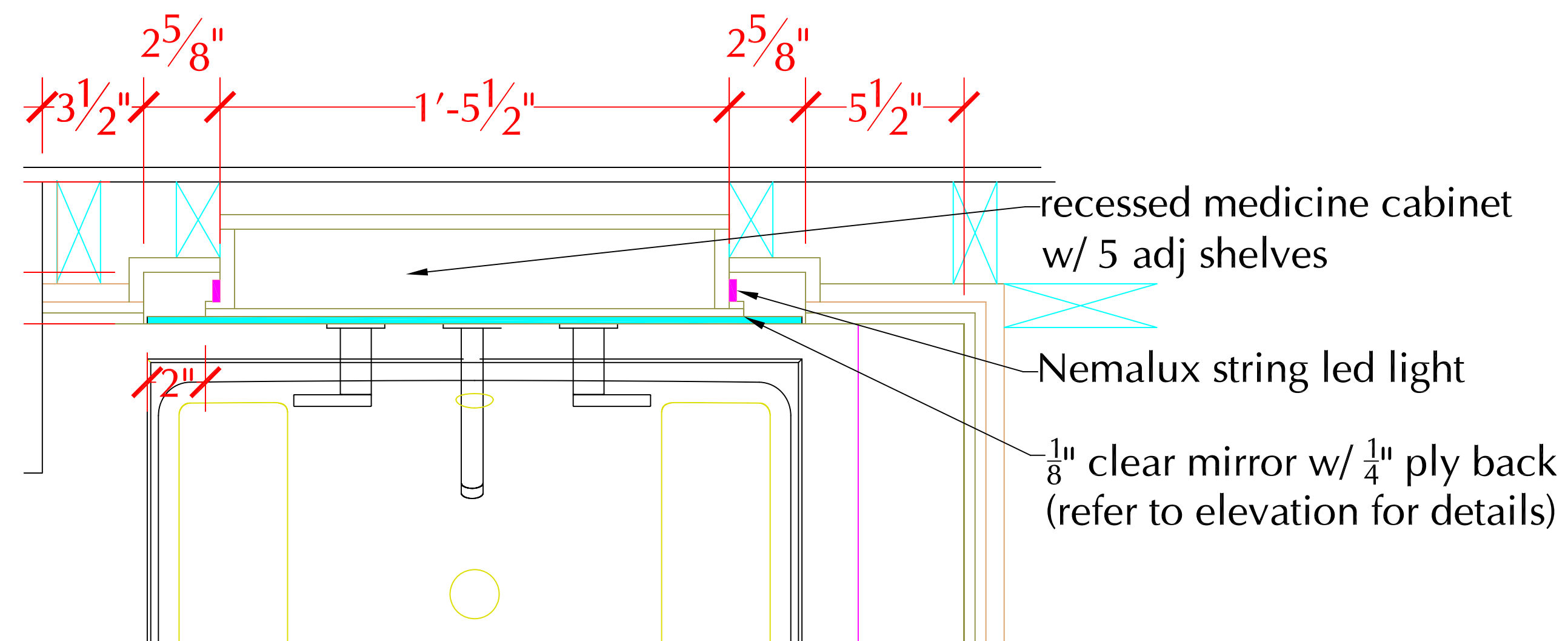
6 LIGHT HOUSEING SECTION
3" = 1' 0"



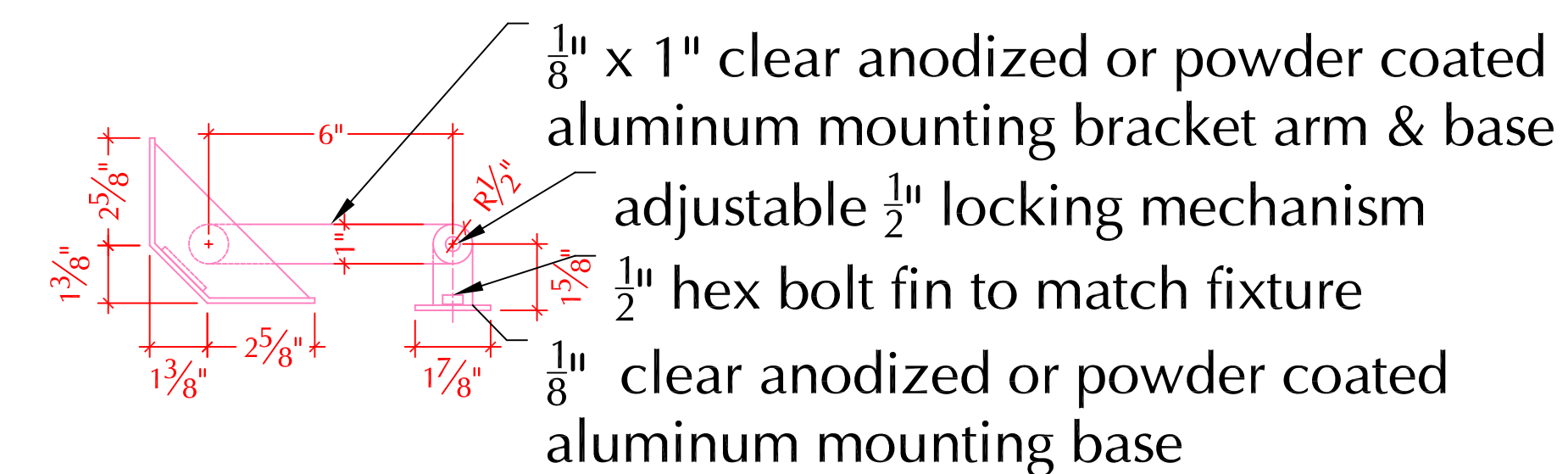
2 STONE LIGHTING DETAIL
3" = 1' 0"



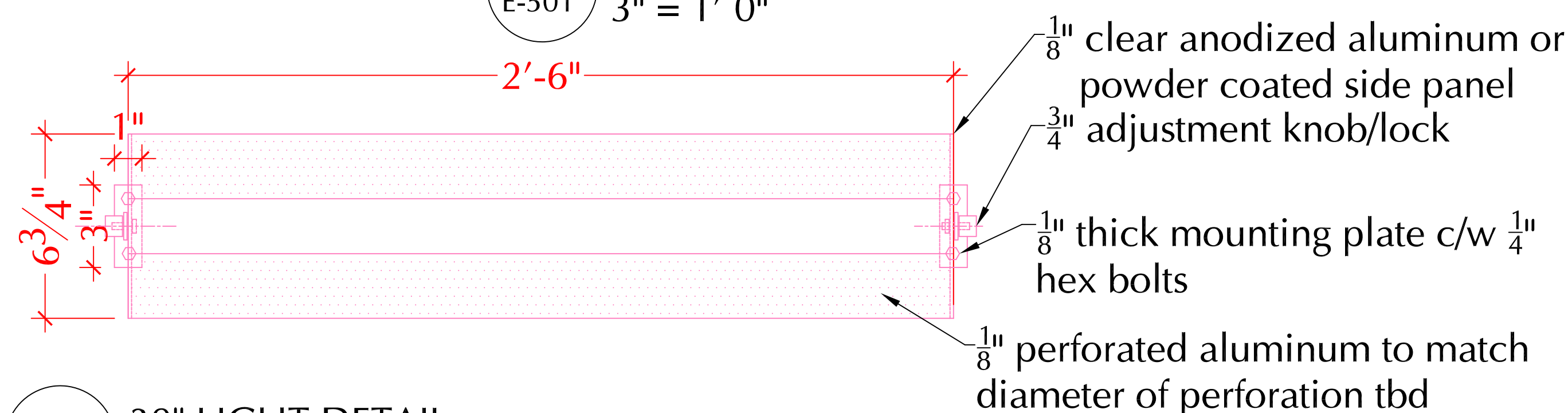
3 KITCHEN BACKSPLASH DETAIL
3" = 1' 0"



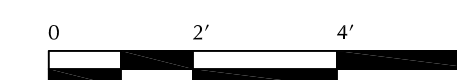
5 VANITY LIGHT DETAIL
3" = 1' 0"



7 LIGHT HOUSING ELEVATION
3" = 1' 0"



8 30" LIGHT DETAIL
3" = 1' 0"



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DATE:	DESCRIPTION

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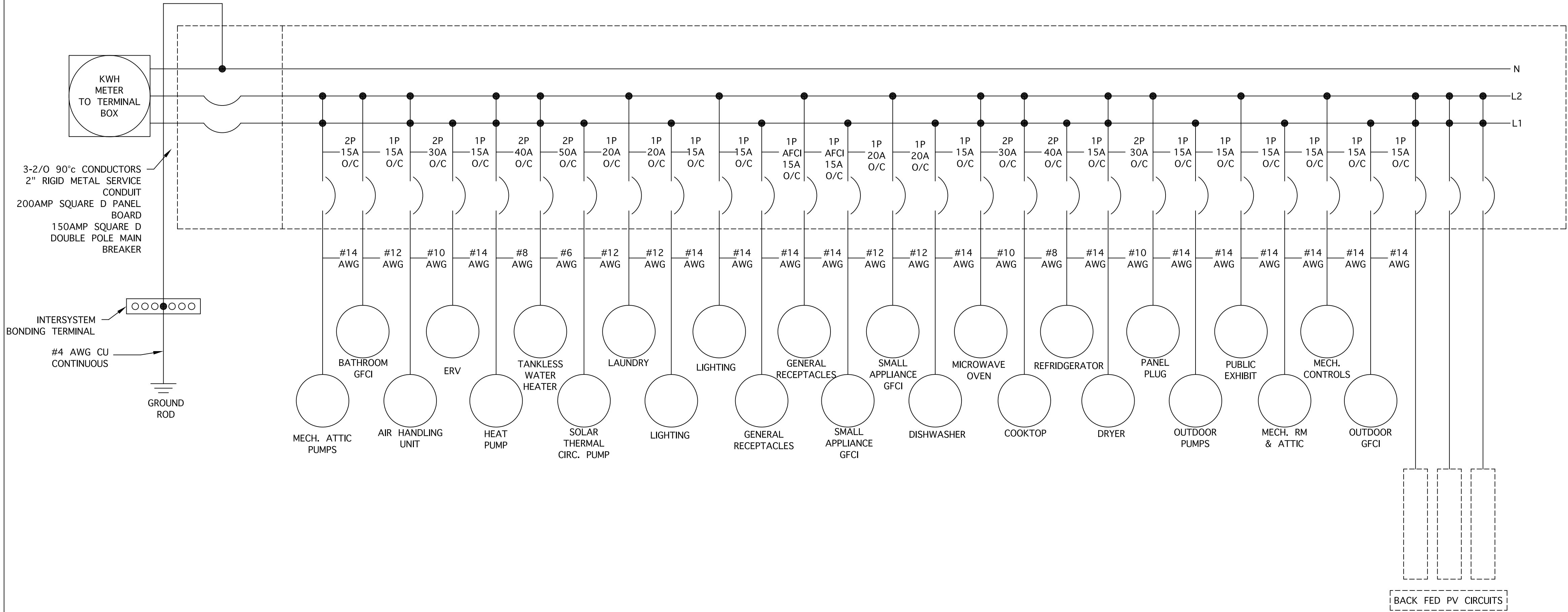
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DATE: 2009/05/30

SCALE:
1 1/2" = 1' 0"

SHEET TITLE:
LIGHTING DETAILS

SHEET #:
E-501



1
E-601

ELECTRICAL LINE DIAGRAM
N.T.S

CALCULATIONS:

GENERAL LOADS	
900 FT² @ 3VA	2700VA
TWO 20-AMP APPLIANCE	
OUTLET CCTS AT 1500VA	
EACH	3000VA
LAUNDRY CCT	1500VA
COOK TOP	7600VA
TANKLESS WATER	
HEATER	11000VA
DISHWASHER	1500VA
CLOTHES DRYER	6000VA
MICROWAVE	4800VA
REFRIGERATOR	900VA
WASHING MACHINE	1800VA
SOLAR THERMAL CIRC.	
PUMP	1920VA
ENERGY RECOVERY	
VENTILATOR	200VA
2 PUMPS AT 1A X 240V	
= 240VA X 2	480VA
1 PUMP AT .5A X 120V	
= 60VA	60VA
	43,460VA

10,000VA @ 100%= 10,000VA
33,460VA @ 40%=+13,384VA
23,384VA

HEAT PUMP AND AIR HANDLING UNIT
(INCLUDES SUPPLEMENTARY HEAT)

240v X 15.4A @100%= 3696VA
(4800VA @ 65%) + 3120VA
6816VA

23,384VA
+6,816VA
30,200VA / 240V = 125.833A

WIRE SIZE TABLE 310.15 (B)(6)
125.833A - MINIMUM AMPACITY
90°C COLUMN, SUGGESTED WIRE SIZE
#2 (130A)
**WE ARE USING 2/0 (200A) CU FOR
COMPETITION **

CONDUIT SIZE TABLE 5 ARTICLE 344
RMC
#2 XHHW-2 AREA 73.94mm²
X 3
221.82mm²
OVER 2 WIRES 40% FILL 1-1/4"
**WE ARE USING 2" RMC FOR
COMPETITION**

GROUNDING CONDUCTOR SIZE TABLE
250.66
BASED ON #2 ABOVE XHHW-2
GROUNDING CONDUCTOR SIZE #8 AWG.
** WE ARE USING 2/0 SERVICE
CONDUCTOR FOR COMPETITION, AND
WE WANT TO RUN E.G.C OF A #4
AWG**

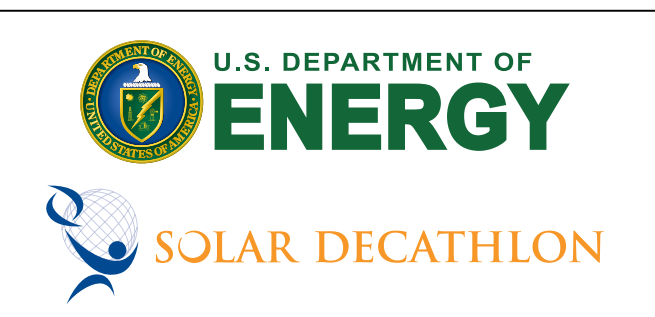
GROUNDING ELECTRODE SYSTEM 250.50
AND 250.52
WE ARE USING A GROUND ROD 250.52
(5)
8" IN LENGTH AND INSTALLED BASED
ON 250.33 (A)(B)(C)
INTERSYSTEM BONDING TERMINAL
250.94 (2) OR (3)
THIS IS SHOWN ON DRAWING MOUNTED
ON PLYWOOD BACKING
SUPPLY SIDE EQUIPMENT BONDING
JUMPER 250.92 (B)(4) EXHIBIT 250.38
FEEDER SERVICE NEUTRAL LOAD
220.61(B)
AS PER TABLE 220.55 AND 220.56
NO REDUCTION
COOK TOP 7600VA
6000VA
13,600VA
DRYER X 70%
9520VA

ADDITIONAL 120V LOADS

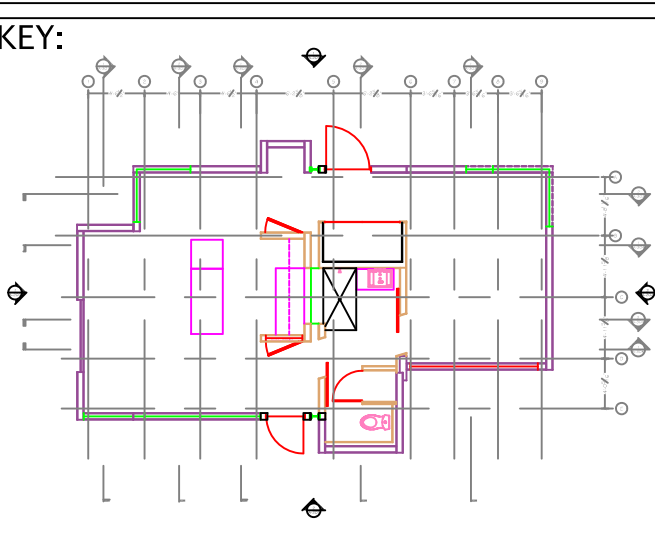
2700VA	GENERAL
3000VA	APPLIANCE
1500VA	LAUNDRY
900VA	REFRIGERATOR
1500VA	DISHWASHER
200VA	E.R.V
9520VA	COOK TOP
	DRYER

19,320VA / 240V = 80.50A

SUGGESTED NEUTRAL WIRE SIZE TABLE
310.16
80.50 - XHHW-2 - #4 (95A)
**WE ARE NOT REDUCING THE NEUTRAL
SERVICE CONDUCTOR**
WE WILL BE USING THE SAME SIZE AS
THE SERVICE CONDUCTORS, 2/0 (200A)



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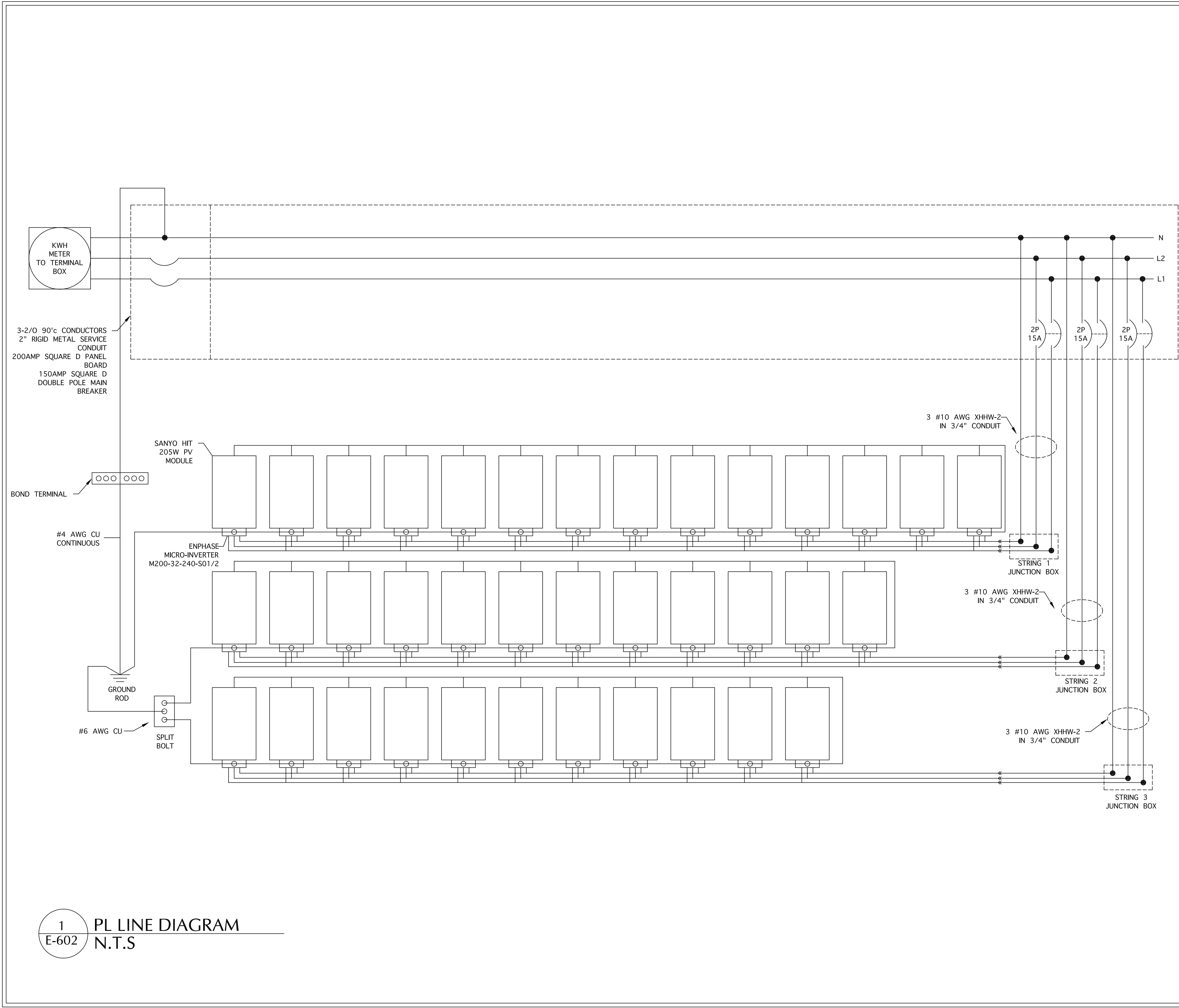
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DATE: 2009/06/02

SCALE: N.T.S

SHEET TITLE: ELECTRICAL LINE DIAGRAM

SHEET #: E-601



NOTE:
GROUNDING OF PV MODULES AND INVERTERS DONE BY A CONTINUOUS #6 AWG BARE COPPER CONDUCTOR BOLTED TO EACH PV MODULE AND INVERTER

ALL JUNCTION BOXES ARE MOUNTED ON THE RACKING OF THEIR RESPECTIVE STRING

WIRING BETWEEN INVERTERS DONE BY FACTORY ASSEMBLED CABLES ATTACHED TO EACH INVERTER. AN ADAPTOR CABLE IS PLUGGED IN TO THE CABLE NOTED ABOVE AND RAN INTO THE STRINGS RESPECTIVE TERMINATION BOX

CALCULATIONS:

P.V. SPECIFICATION FOR AC MODULES INVERTER OUTPUT 690.52
• NOMINAL OPERATING AC VOLTAGE: 240V/211V - 264V
• NOMINAL OPERATING AC FREQUENCY: 60.0/59.3-60.5HZ
• MAX AC POWER: 200W
• MAX AC CURRENT: 833 MA
• MAX OVER CURRENT DEVICE FOR AC MODULE PROTECTION: 15A

690.64(7)
• WARNING LABELS AT DISTRIBUTION EQUIPMENT: *WARNING* INVERTER OUT PUT CONNECTION DO NOT RELOCATE THIS OVER CURRENT DEVICE

CONDUCTOR SIZE TABLE 690.31 (C), USED 65°C WITH 90°C INSULATION, .57 DERATING FACTOR.

AC MODULE OUTPUT CURRENT AND INVERTER OUTPUT CURRENT ARE CONSIDERED TO BE THE CURRENT USED FOR CALCULATIONS.
3 STRINGS OF 14, 12 AND 11 MODULES.

• 14MOD X 0.833A = 11.662A / 0.57 = 20.459A
• 12MOD X 0.833A = 9.996A / 0.57 = 17.536A
• 11MOD X 0.833A = 9.163A / 0.57 = 16.075A

• 20.459A-#10AWG XHHW-2 90°C
• 17.536-#12AWG XHHW-2 90°C-USING #10AWG FOR COMPETITION
• 16.075A-#12AWG XHHW-2 90°C-USING #10AWG FOR COMPETITION

OVERCURRENT SIZE TABLE 210.24 AND 240.4(B)

• 11.662A X 1.25 = 14.577A -2 POLE 15A BREAKER
• 9.996A X 1.25 = 12.495A -2 POLE 15A BREAKER
• 9.163A X 1.25 = 11.453A -2 POLE 15A BREAKER

CONDUIT SIZE TABLE 4 AND 5 CHAPTER 9, ARTICLE 358
• XHHW-2, #10AWG - 15.68MM² X 4 = 62.72MM² -1/2" CONDUIT
• XHHW-2, #12AWG - 15.68MM² X 4 = 62.72MM² - 1/2" CONDUIT

• XHHW-2, #12AWG - 15.68MM² X 4 = 62.72MM² - 1/2" CONDUIT
• USING 3/4" CONDUIT FOR COMPETITION

690.64 (B)
• SQUARE D 200A PANELBOARD
• THESE BACKFED PV CIRCUIT BREAKERS ARE INSTALLED ON THE OPPOSITE END OF THE MAIN 150A CIRCUIT BREAKER.
• 200A PANEL X 1.20 = 240A
• 240A - 150A = 90A MAX BACKFED CURRENT ALLOWED BY CODE
• OVERCURRENT PROTECTION WE ARE USING: 15A
• 15A + 15A + 15A = 45A
• WE ARE NOT EXCEEDING THE 90A RATING

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2009/06/02

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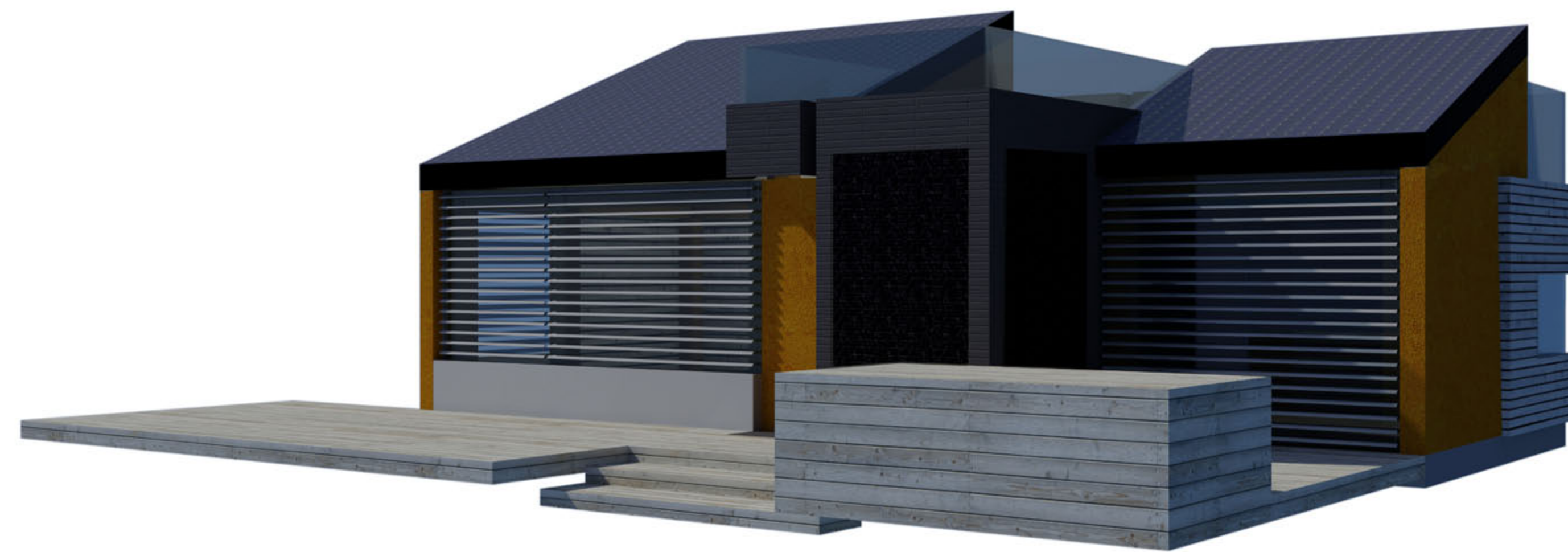
N.T.S

SHEET TITLE:

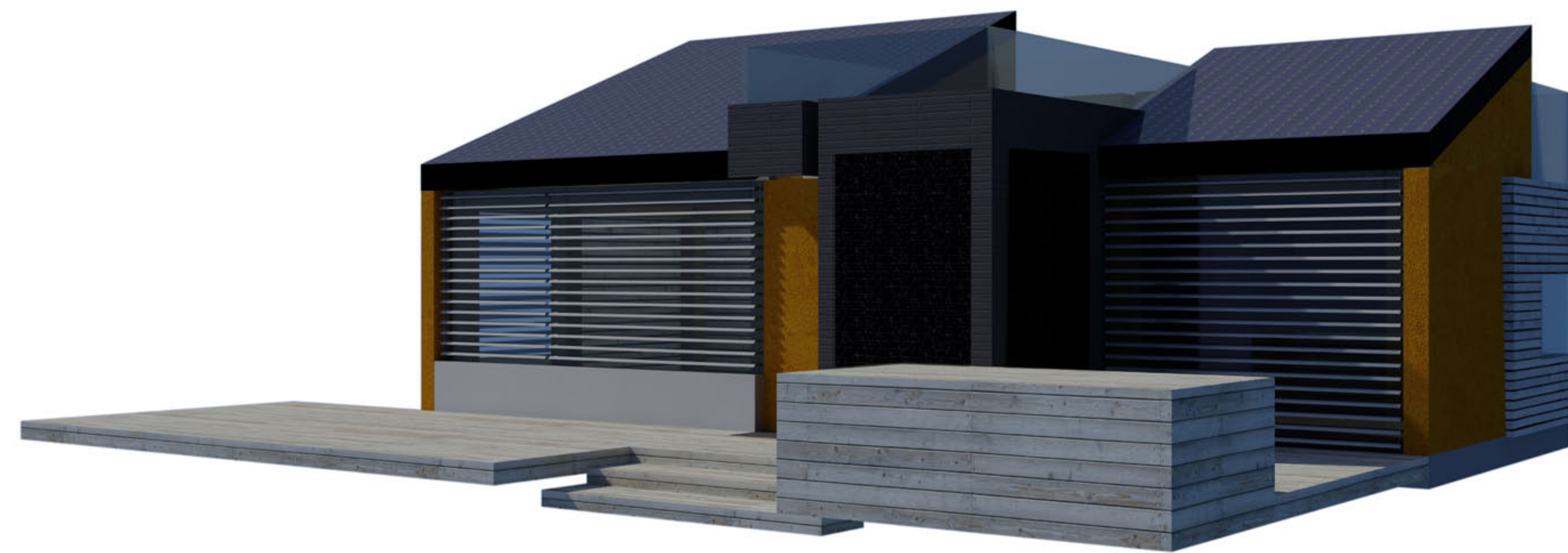
PV LINE DIAGRAM

SHEET #:

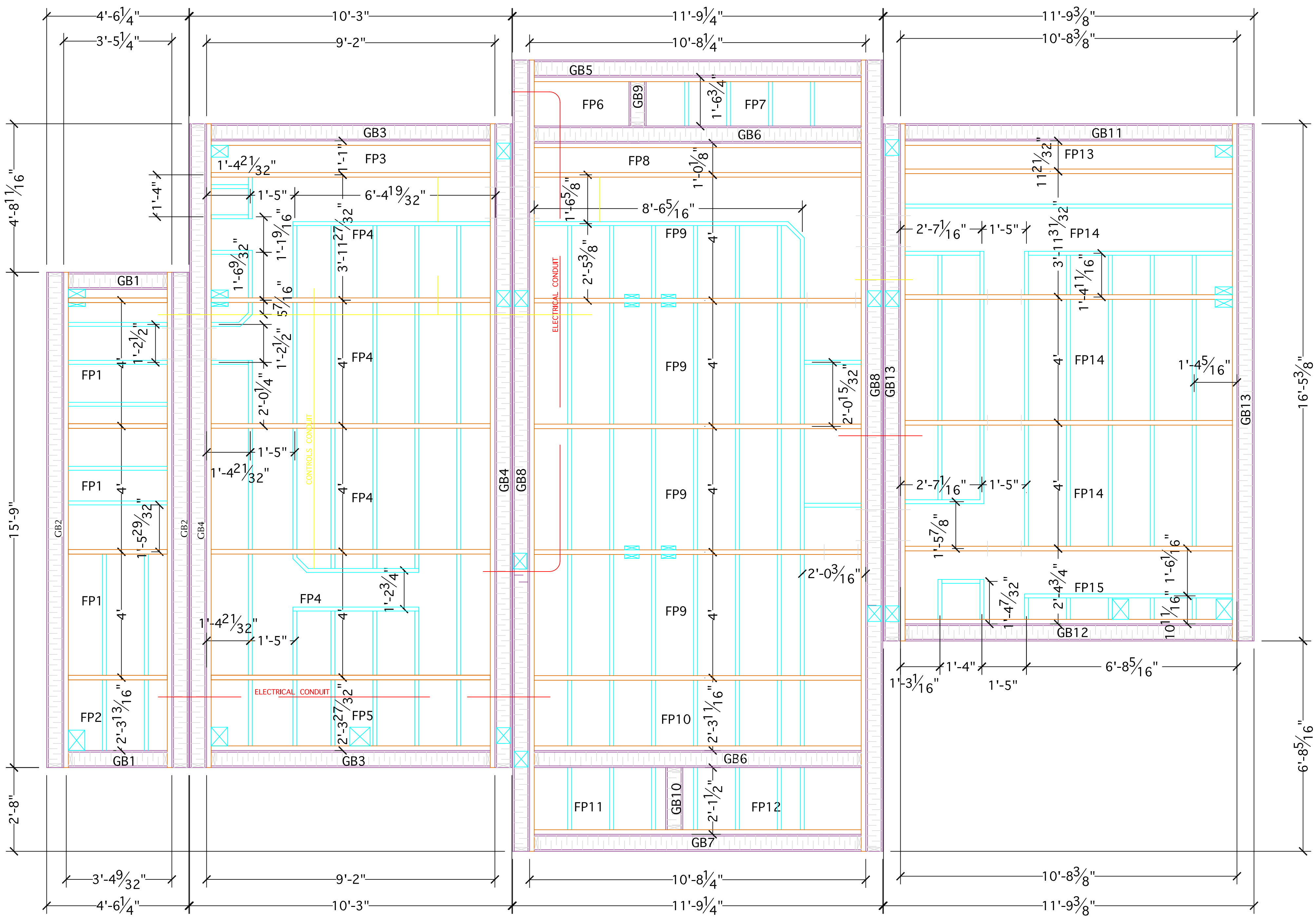
E-602



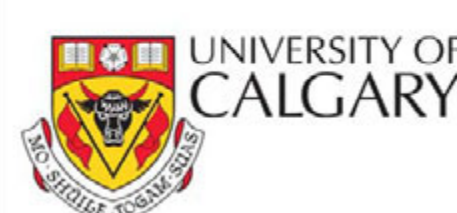
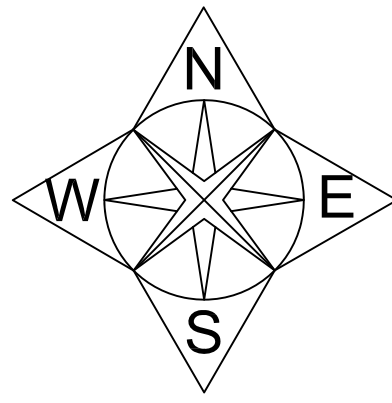
General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



General
Landscape
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Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



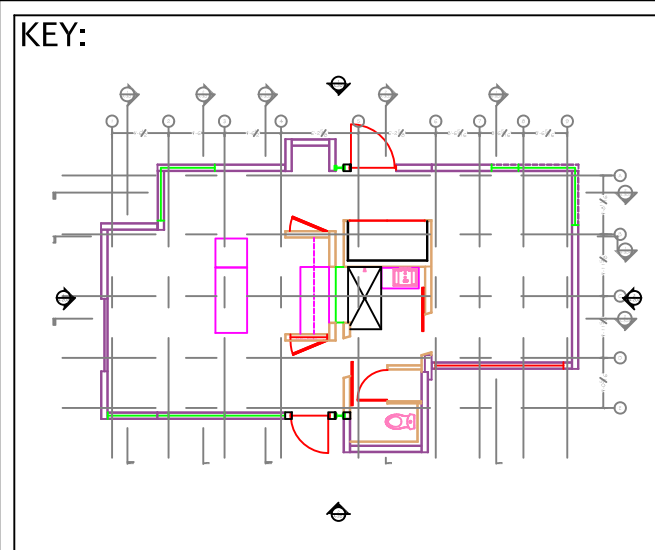
1 FLOOR STRUCTURAL SYSTEM
Z-101 1/2" = 1' 0"



Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



STAMP:

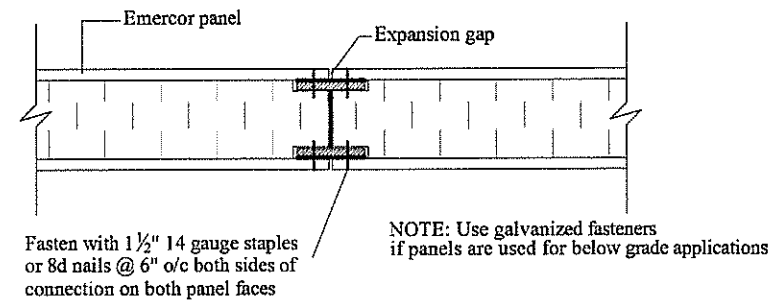
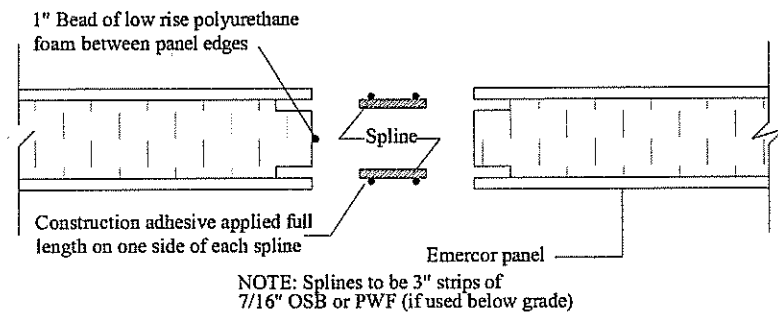
DRAWN: KM CHECKED: TH

DATE: 2009/05/24

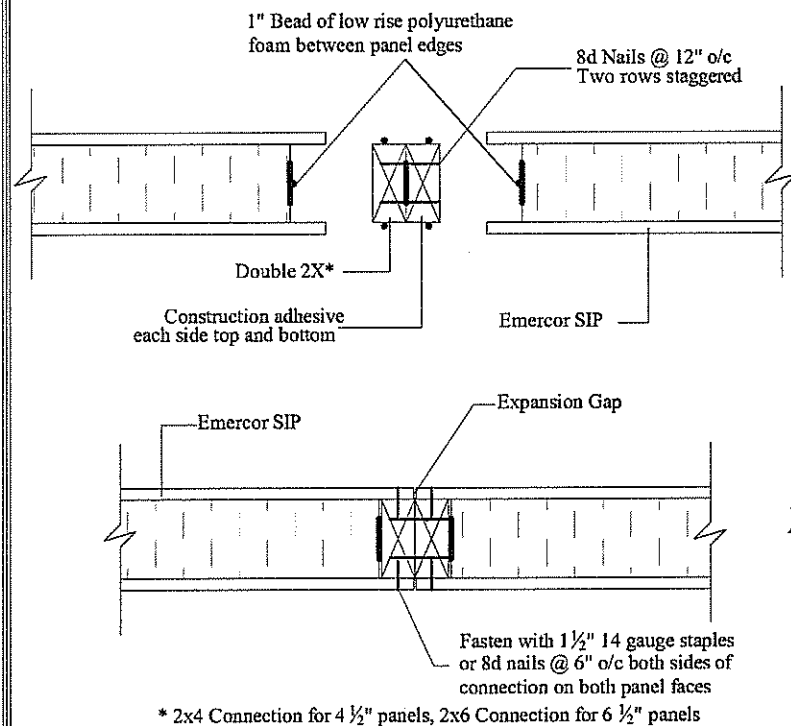
SCALE: 1/2" = 1' 0"

SHEET TITLE: FLOOR STRUCTURE SYSTEM

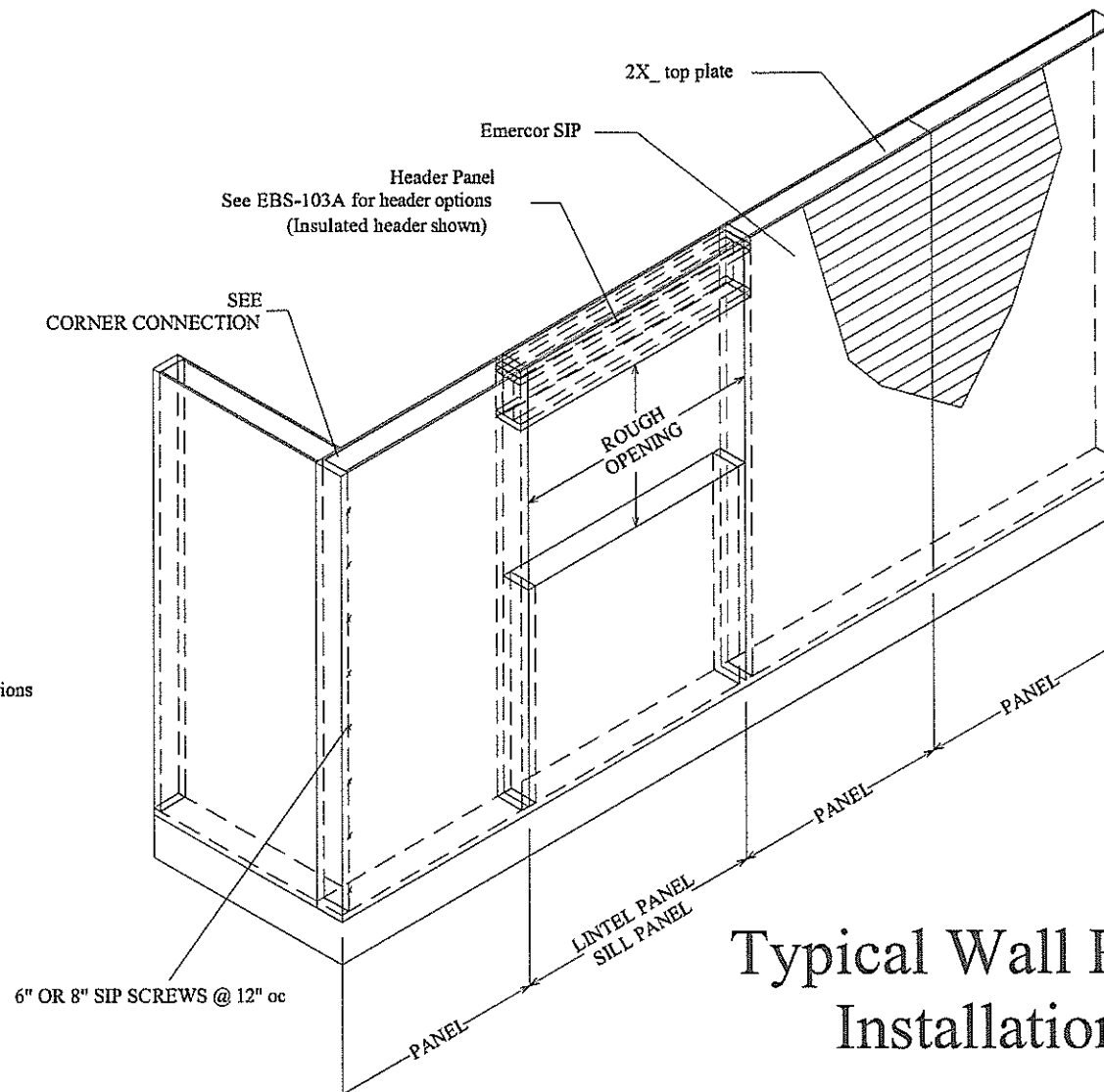
SHEET #: Z-101



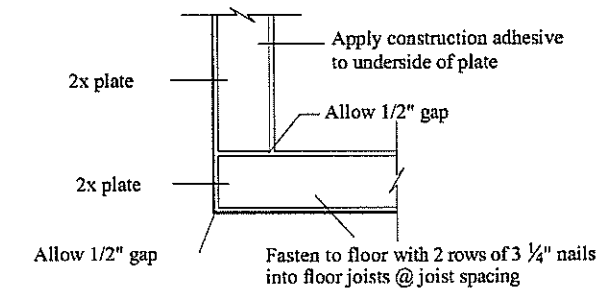
Spline Connection



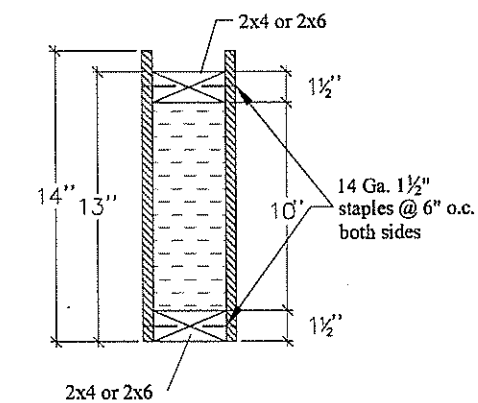
2-2x Connection



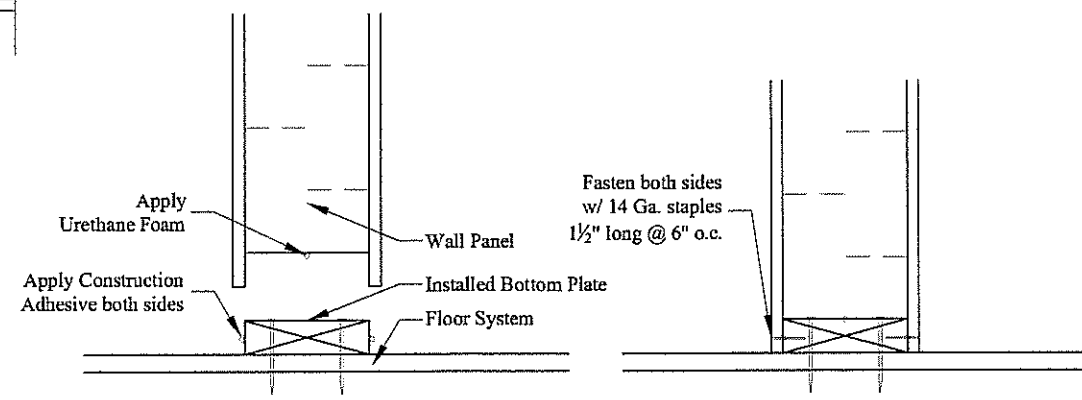
Typical Wall Panel Installation



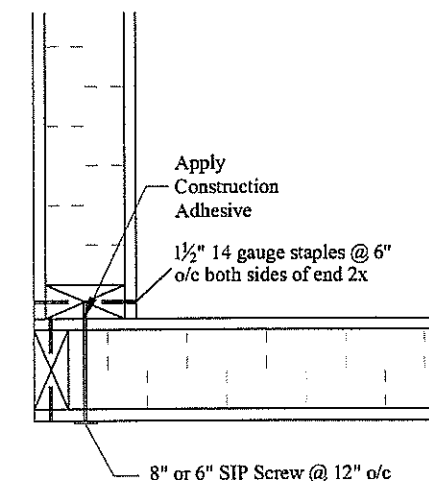
Typical Bottom Plate Installation



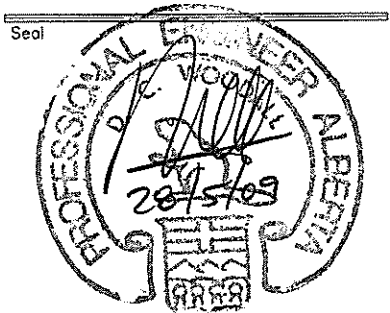
Header Panel A (HA)



Typical Panel onto Bottom Plate Installation



Typical Corner Connection



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DAVID C WOODALL - STRUCTURAL ENGINEER

Signature *[Signature]*

Date 28/5/09

PERMIT NUMBER: P 0169

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Revisions No.	Rev.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client

Alberta Solar
Decathlon Team
Calgary, Alberta

EMERCOR

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Project

SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number

E8072

Scale _____ Drawn C. Bastow

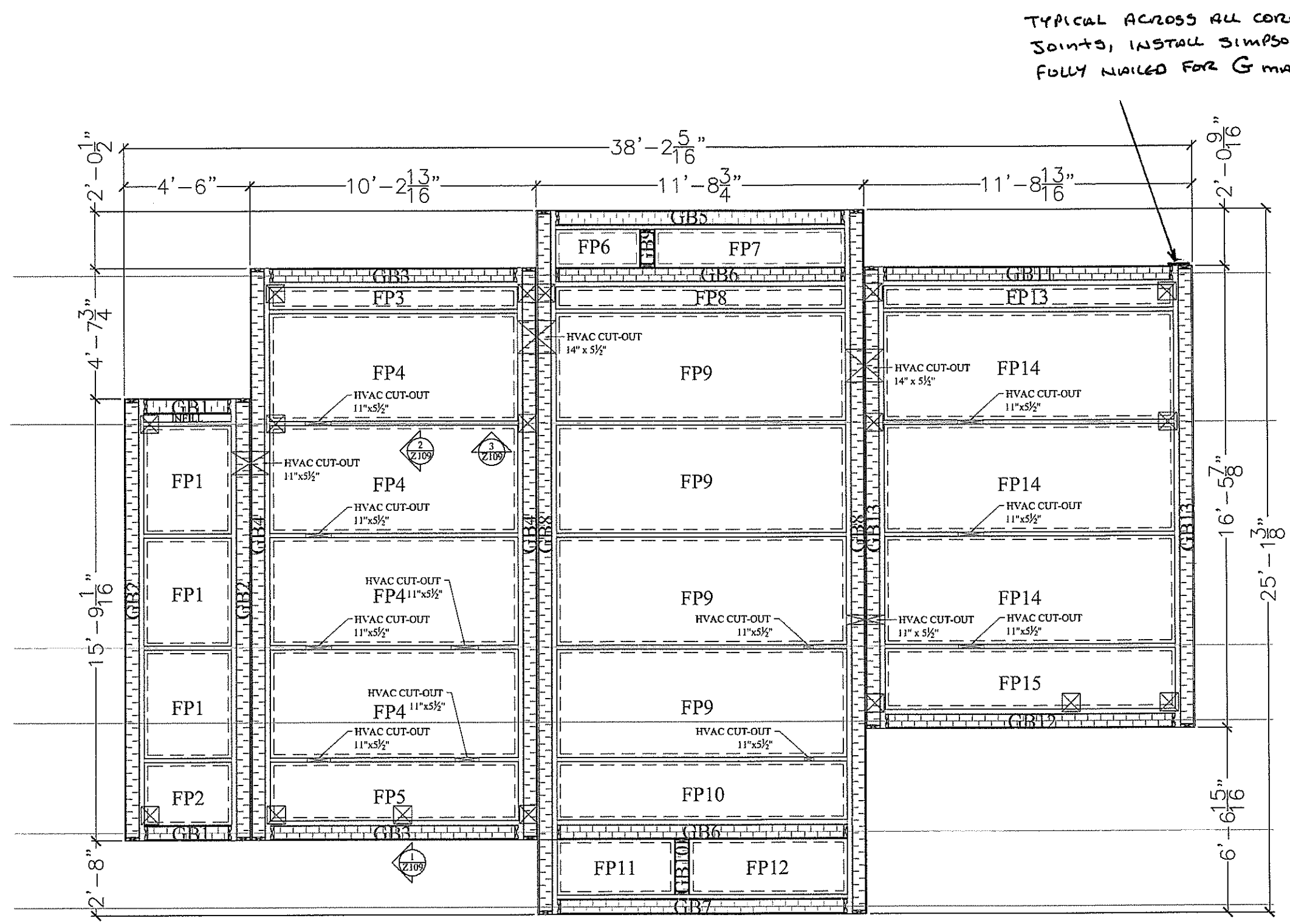
Date Dec.12, 2008 Checked _____

Sheet Title

Cover Page

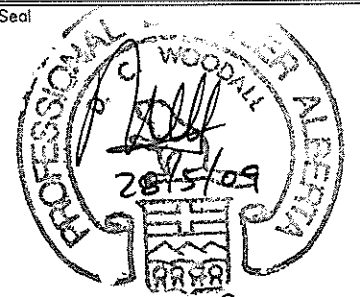
Sheet Number

Cover




LOCATIONS OF HVAC CUT-OUTS MAY VARY FROM THOSE SHOWN BUT FLOOR STRENGTH IS NOT LOCATION SENSITIVE.

GRADE BEAM SUPPORT LOCATIONS DETAILED ON DRAWING S-2 ARE TO BE SUPPORTED PRIOR TO OCCUPANCY



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 DAVID C WOOD/LL/STRUCTURAL/ENGINEERING

Signature 

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Scale 1/4" = 1' Drawn C. Bastow

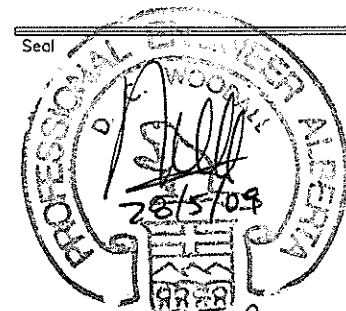
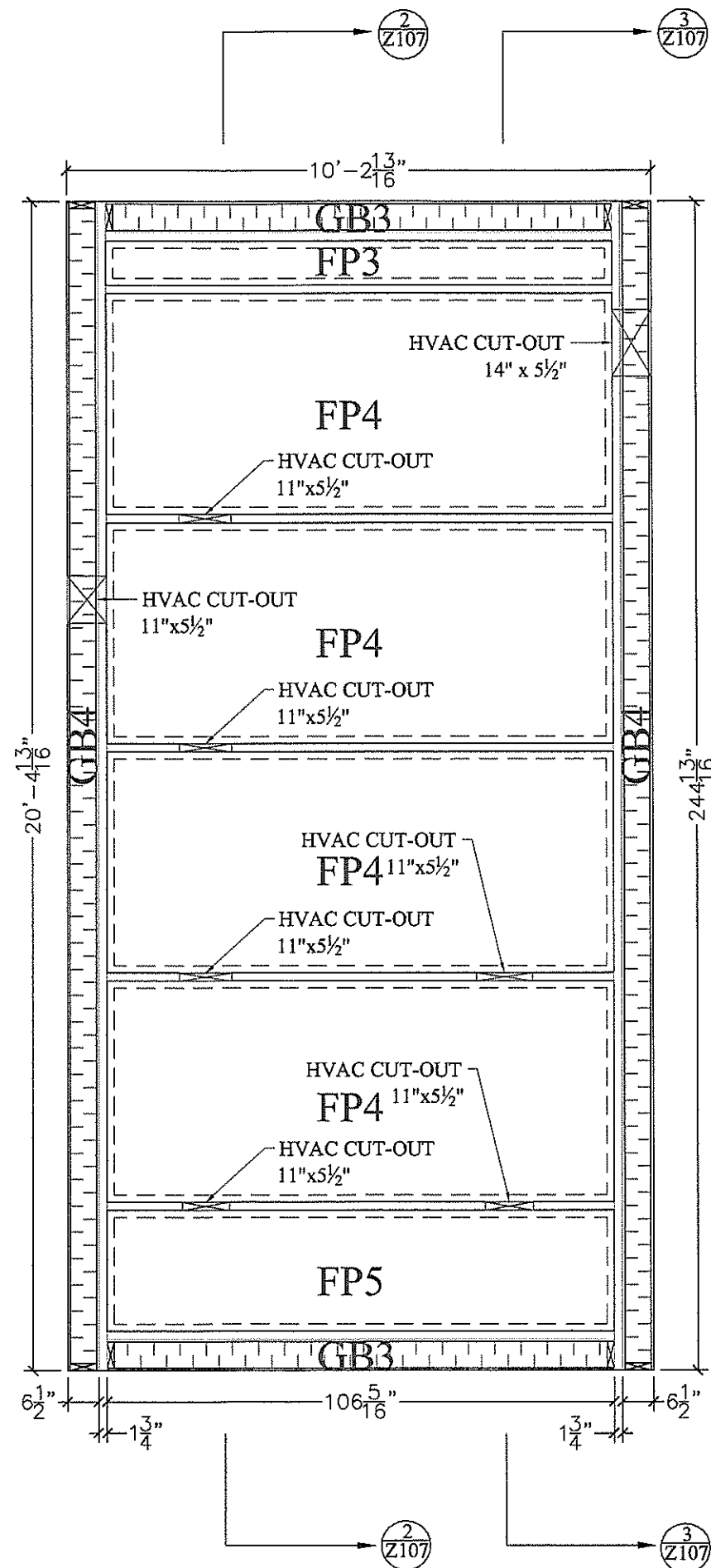
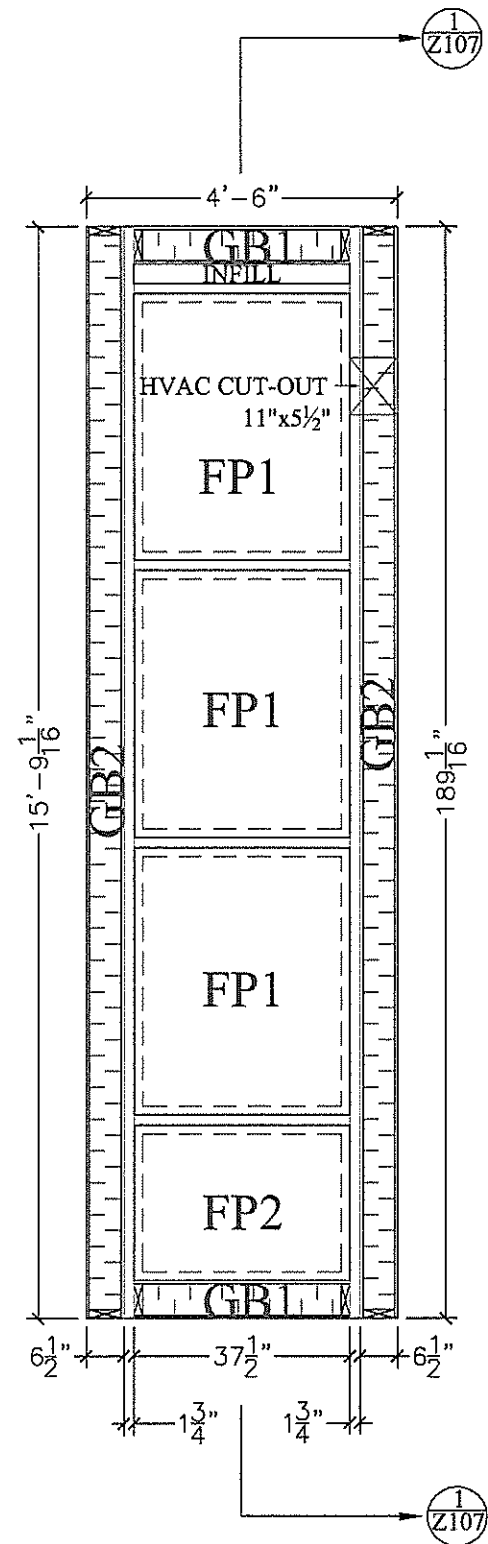
Date Dec. 12, 2008 Checked _____

Sheet Title

Floor Panel
 Layout

Sheet Number

Z-101



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Scale 3/8" = 1' Drawn C. Bastow

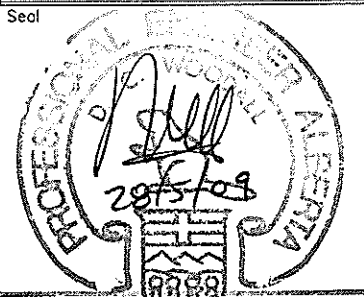
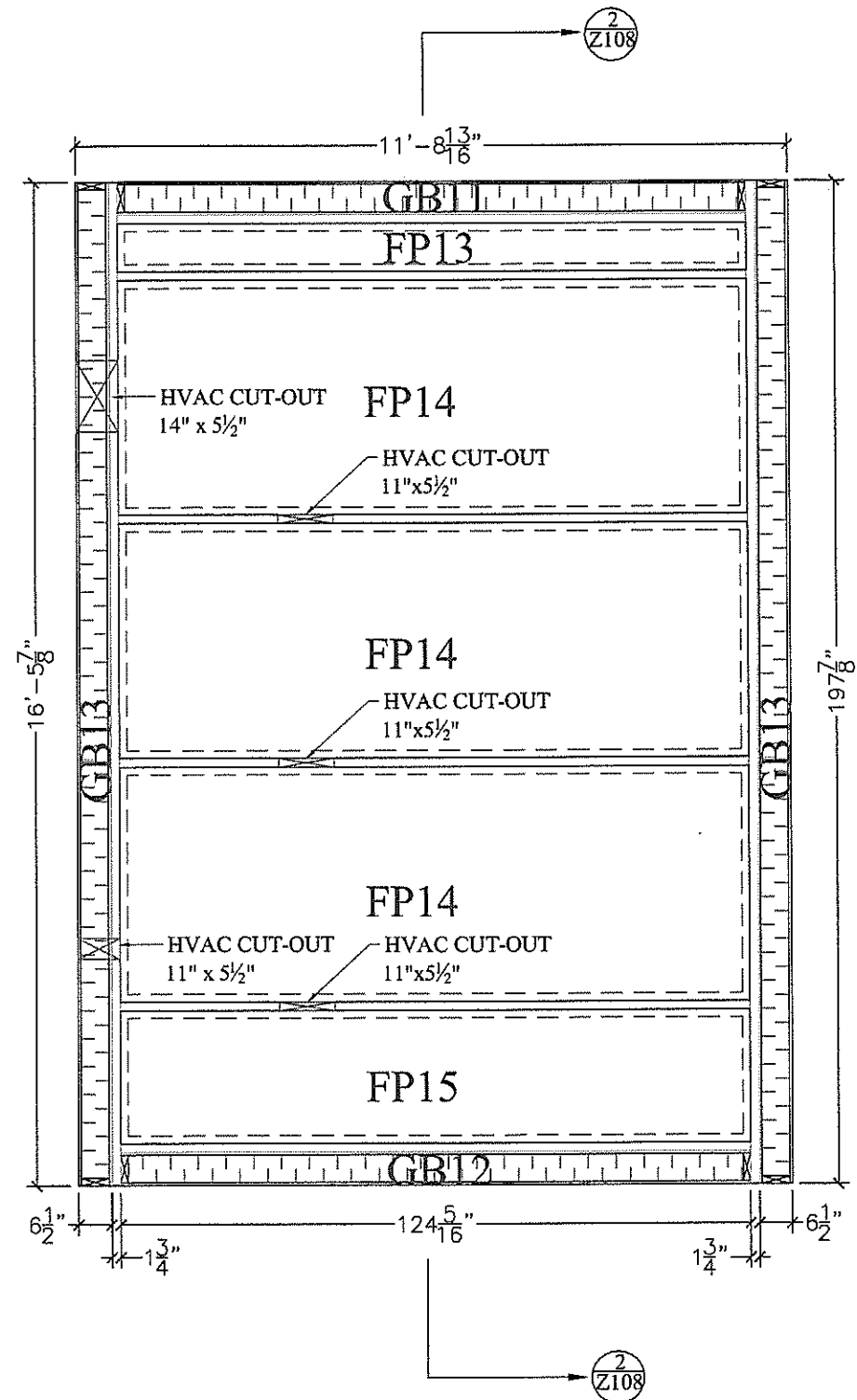
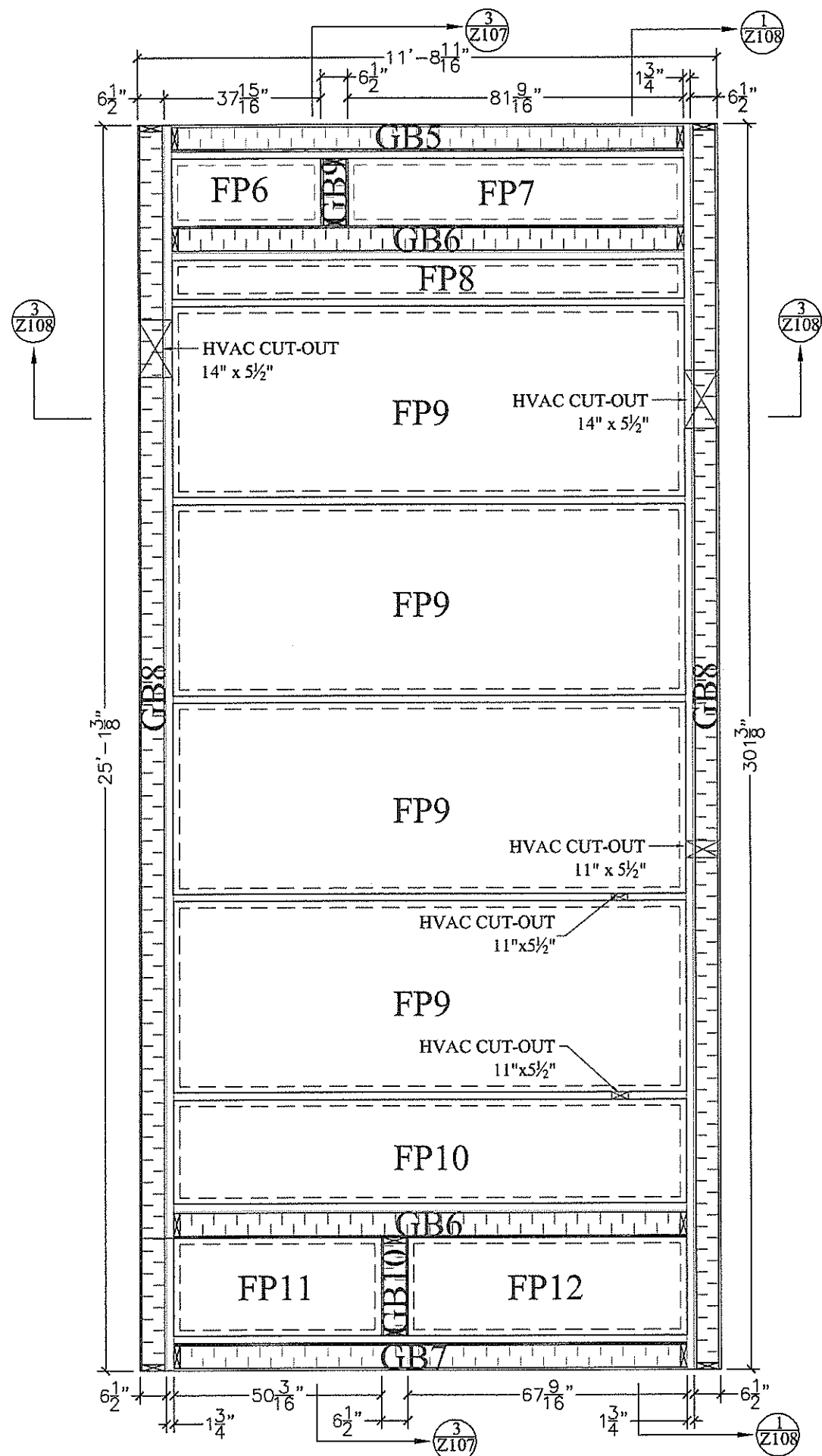
Date Dec. 12, 2008 Checked _____

Sheet Title

Floor Panel
Layout

Sheet Number

Z-102



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Emercor Project Number _____

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Scale not to scale Drawn C. Bastow

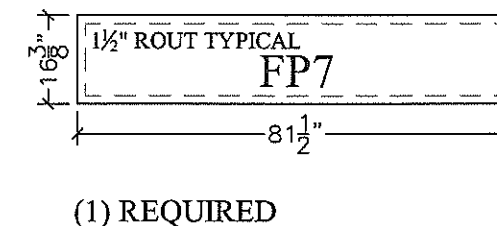
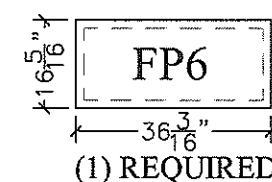
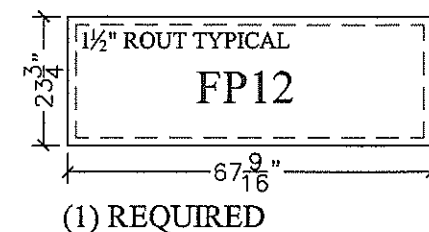
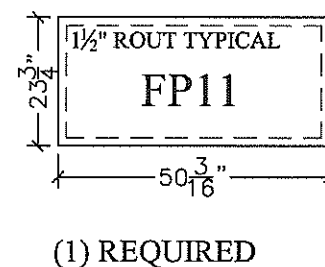
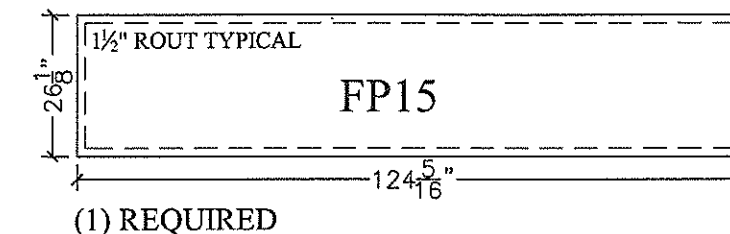
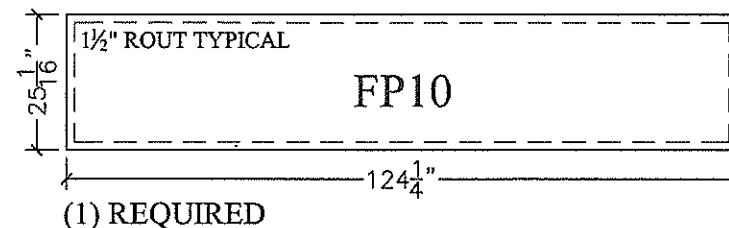
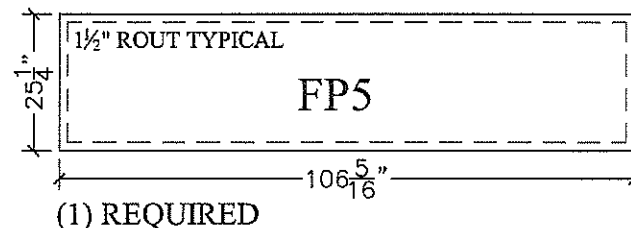
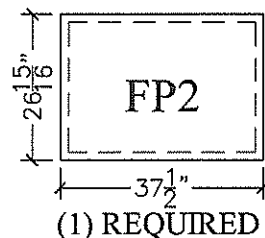
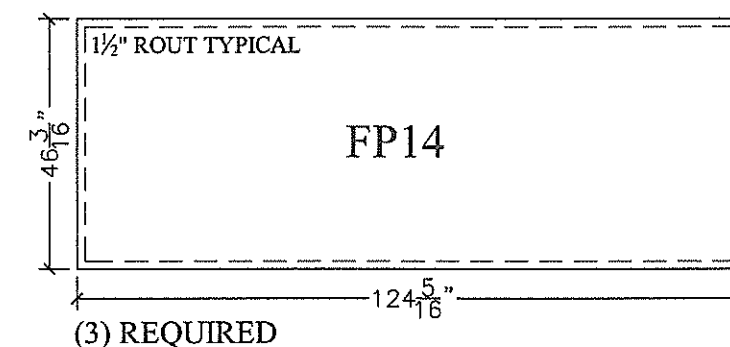
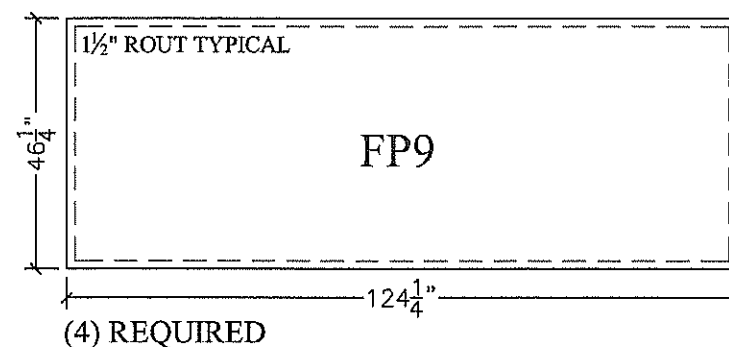
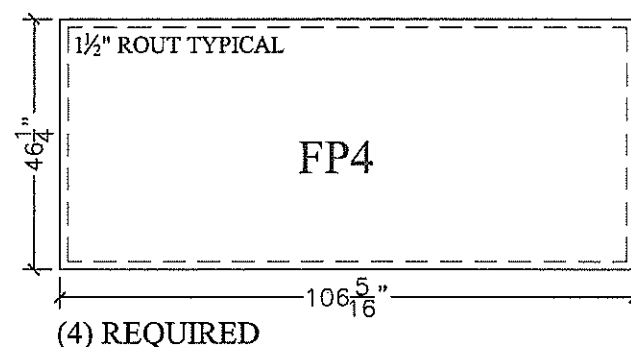
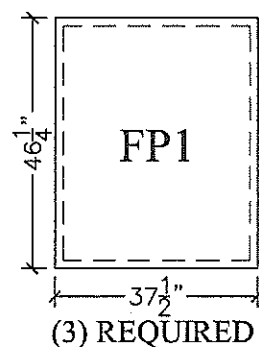
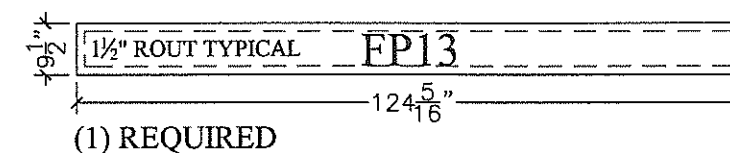
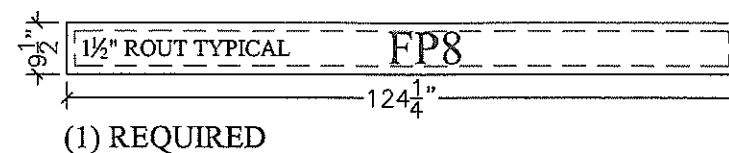
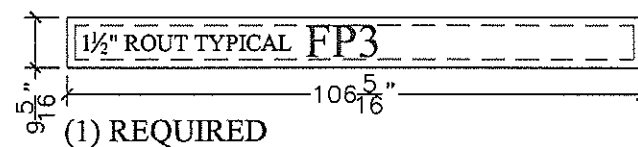
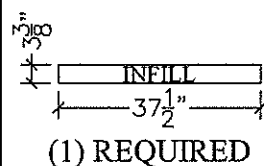
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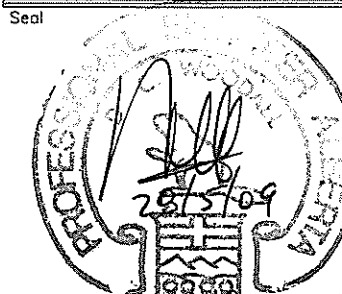
Floor Panel
Layout

Sheet Number _____

Z-103



Seal



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DAVID C. WOODALL, PROFESSIONAL ENGINEERING

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Date 28/5/09

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1	CB		05/14/09	ISSUED FOR REVIEW
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Calgary, Alberta

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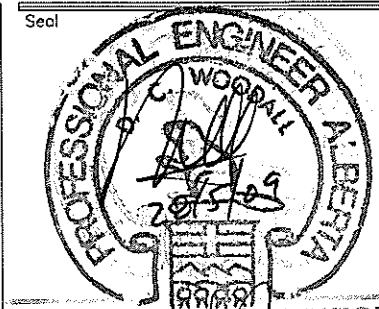
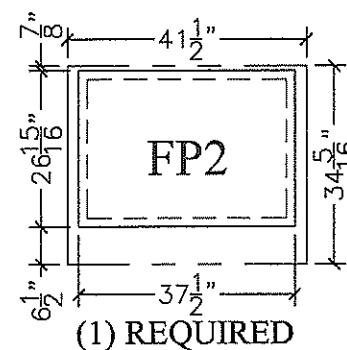
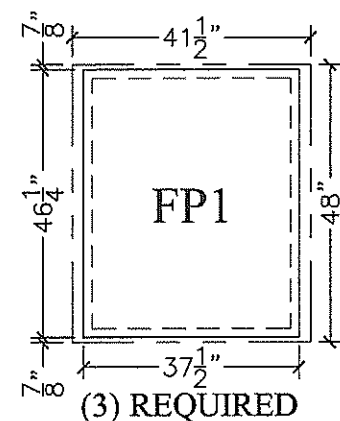
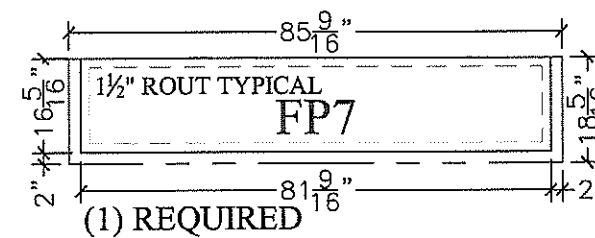
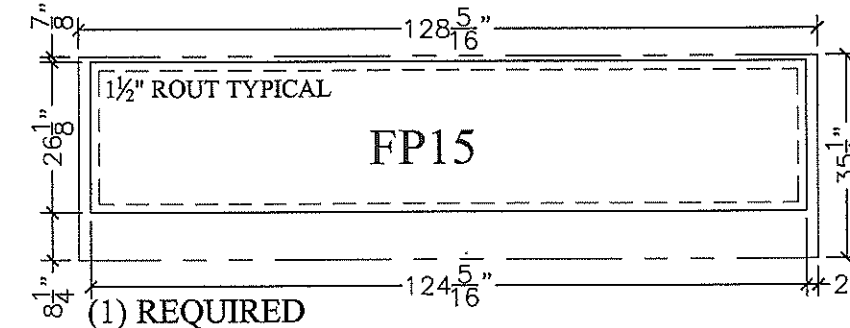
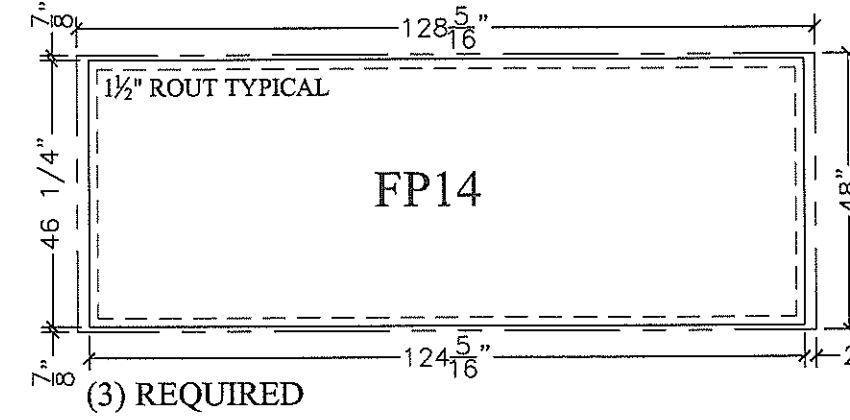
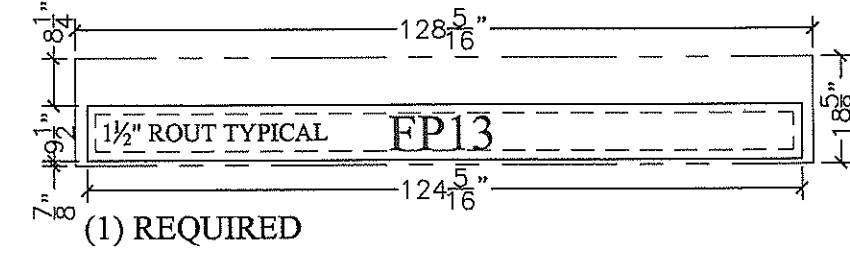
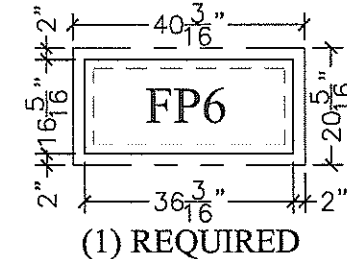
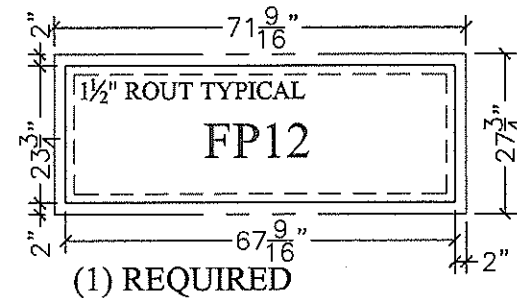
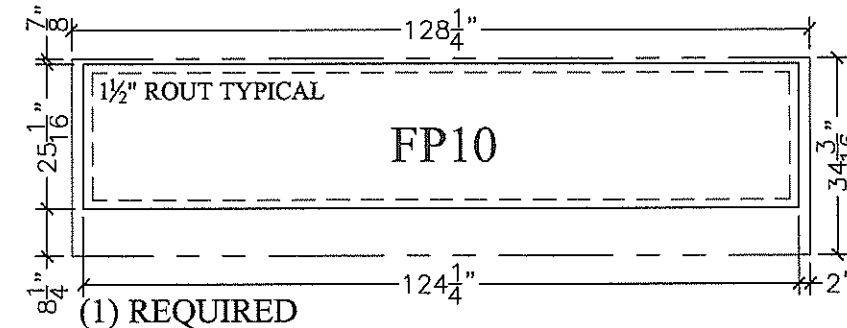
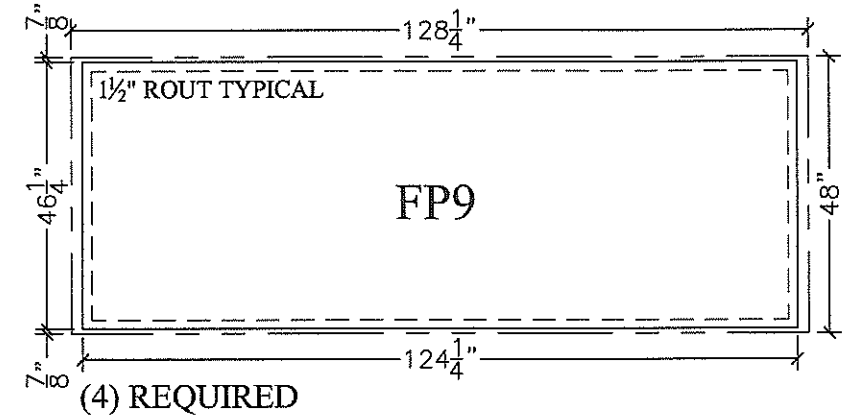
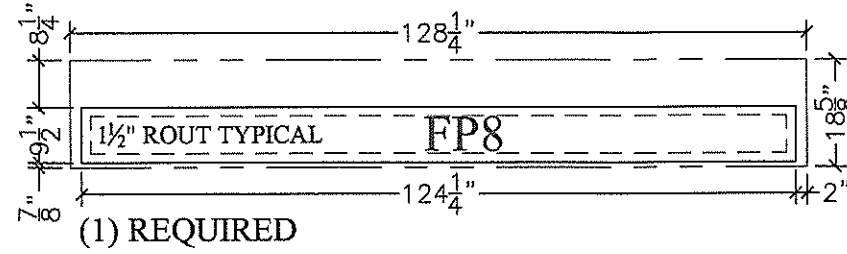
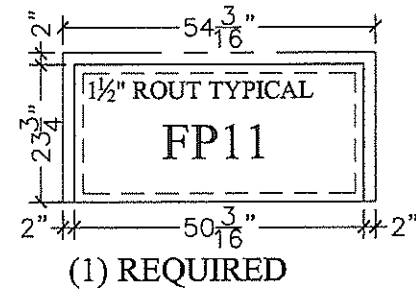
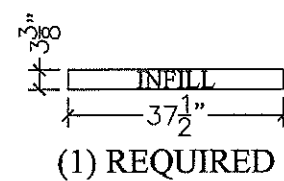
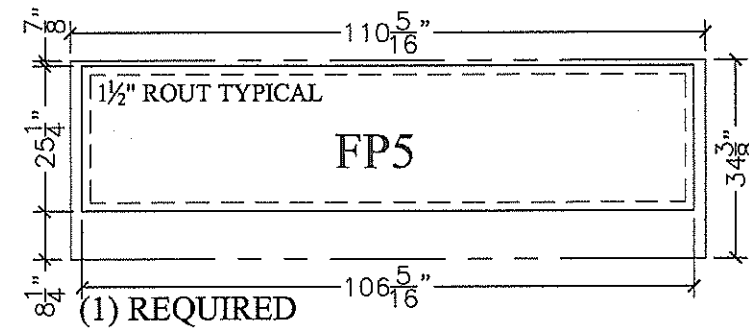
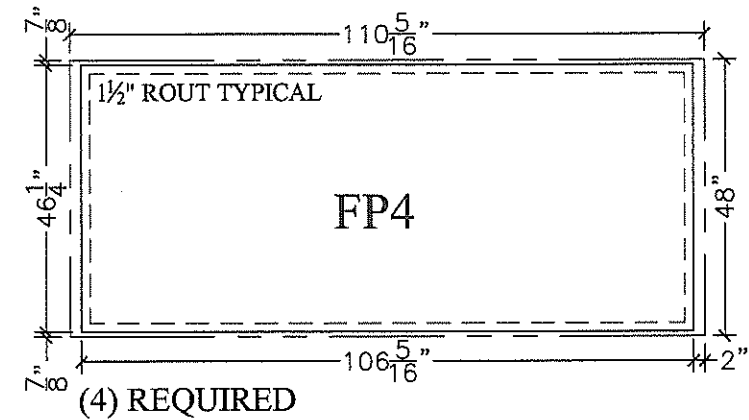
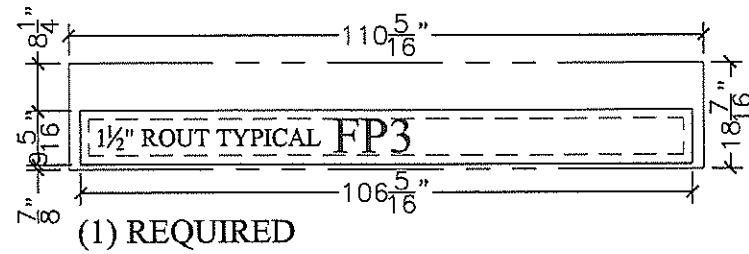
Emercor Project Number
E8072

Scale not to scale Drawn C. Bastow

Date Dec. 12, 2008 Checked _____

Sheet Title
Floor Panels

Sheet Number
Z-104



David C. Woodall
Professional Engineer
No. 28529
Alberta

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Emercor Project Number _____

E8072

Scale 3/8" = 1' Drawn C. Bastow

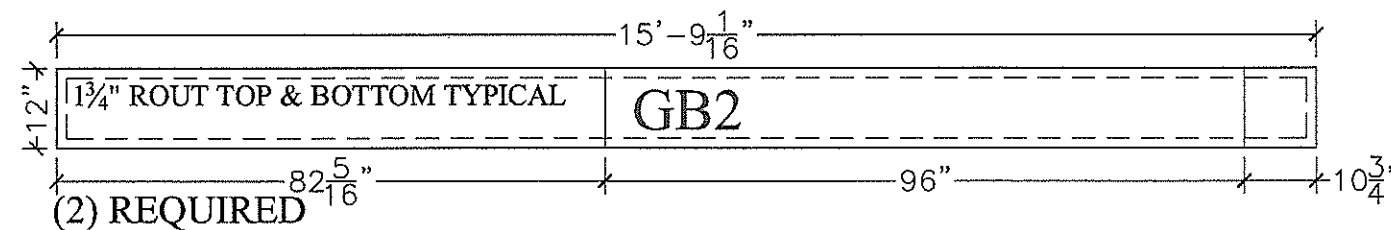
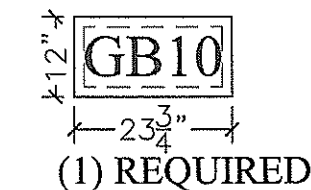
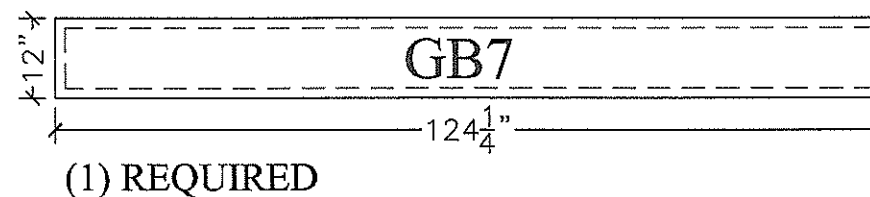
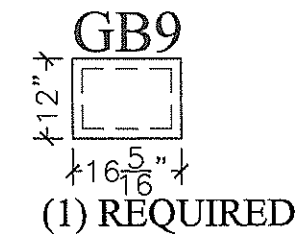
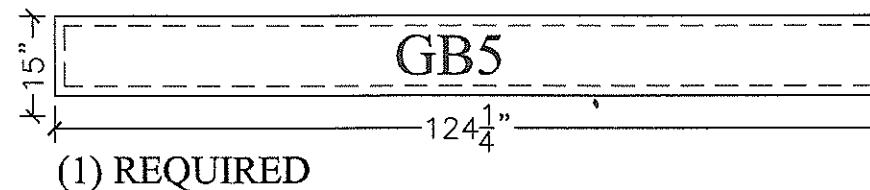
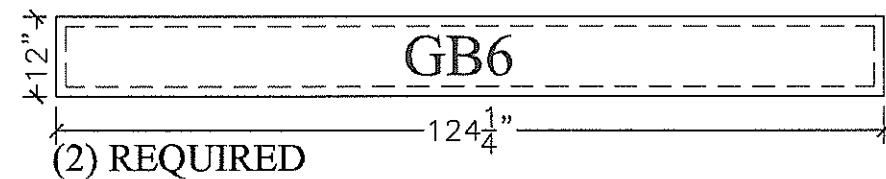
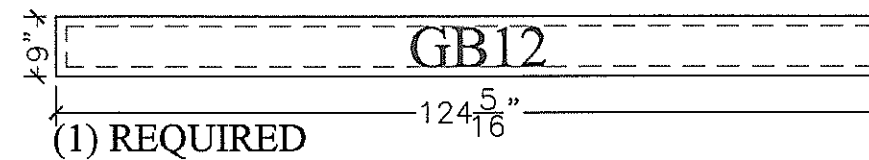
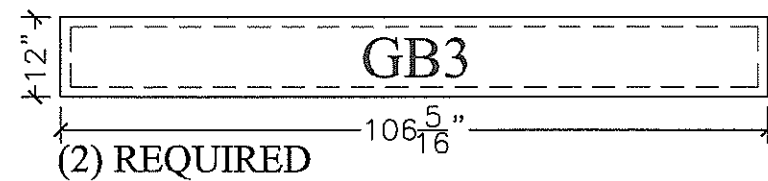
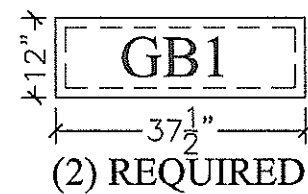
Date Dec. 12, 2008 Checked _____

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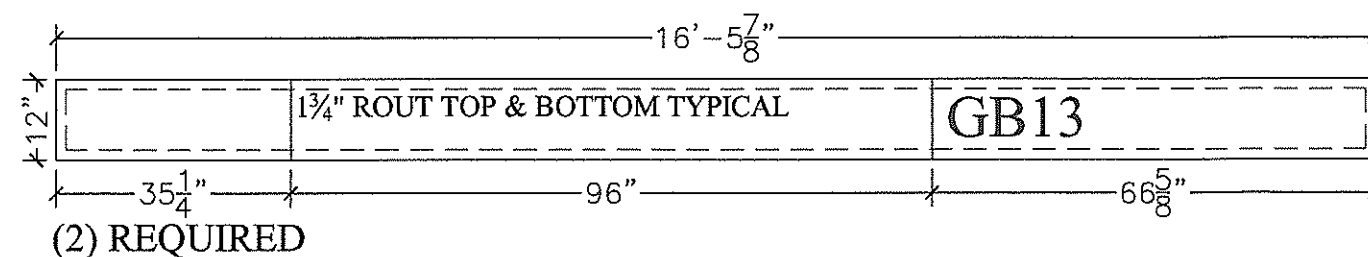
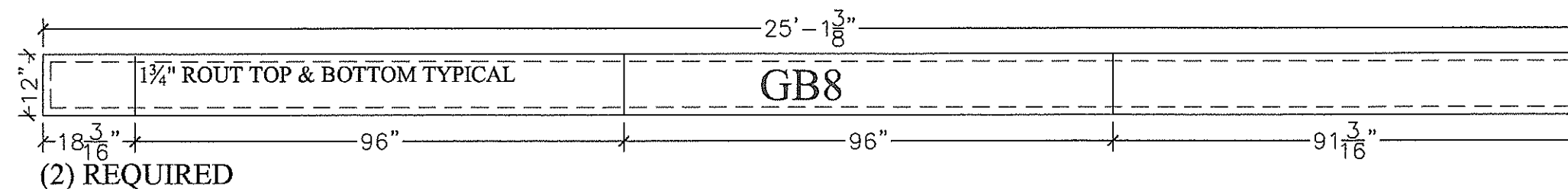
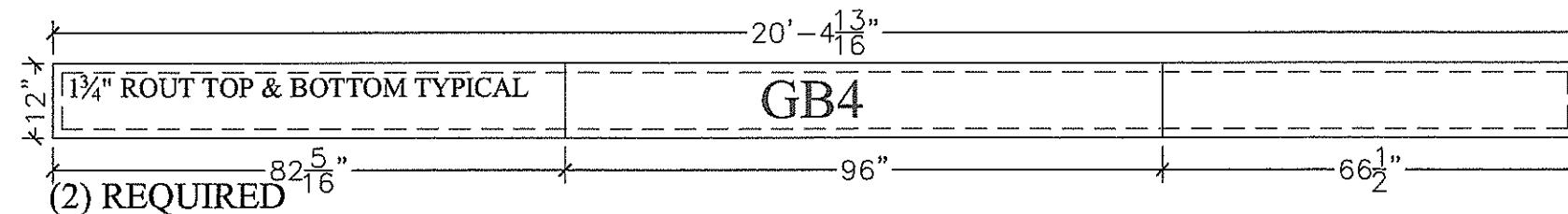
Floor Panels
Bottom Skin Dimension

Sheet Number _____

Z-105



EMERCOR 6 1/2"
OSB/OSB PANELS c/w
1 3/4" X 5 1/2" 2.0E LVL
TOP & BOTTOM



EMERCOR 6 1/2"
OSB/OSB PANELS c/w
1 3/4" X 5 1/2" 2.0E LVL
TOP & BOTTOM

Seal

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DAVID C. WOODALL, P. ENG., ENGINEERING

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Revisions	No.	Sig.	Date	Description
1	CB		05/14/09	ISSUED FOR REVIEW
2	CB		05/26/09	ISSUED FOR REVIEW

Client

Alberta Solar
Decathlon Team
Calgary, Alberta

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104 COMMERCIAL COURT
CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
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Project

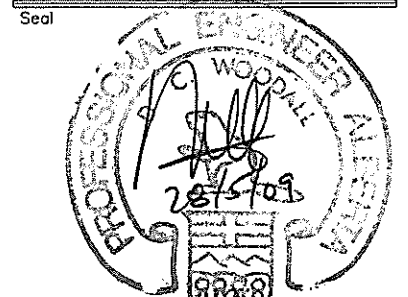
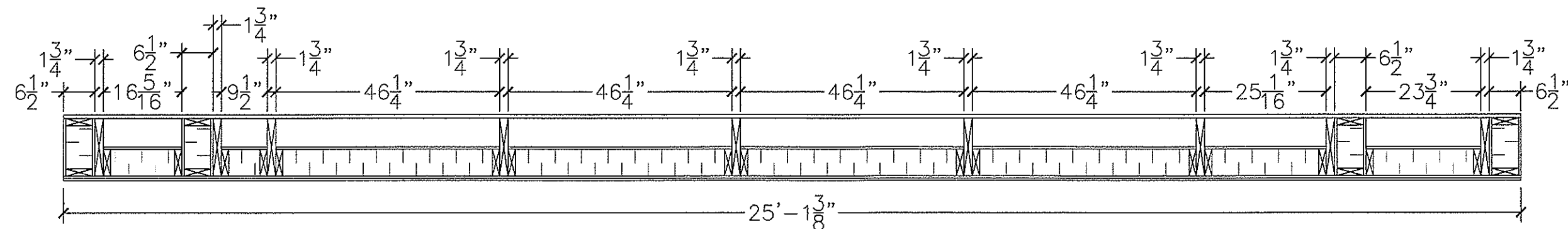
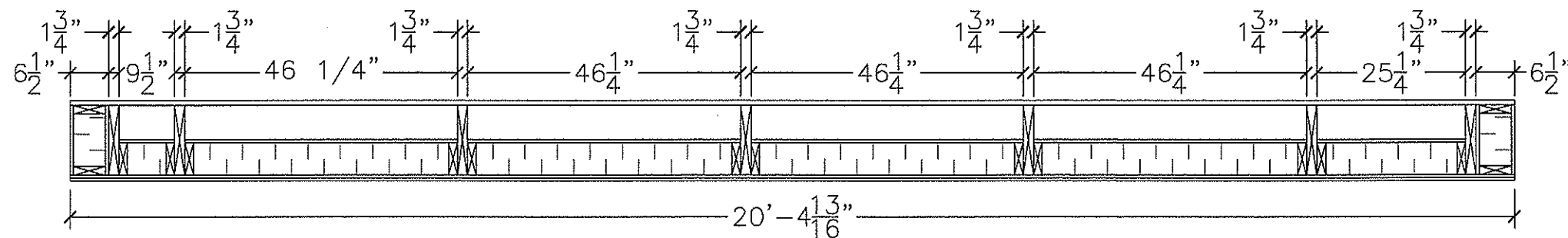
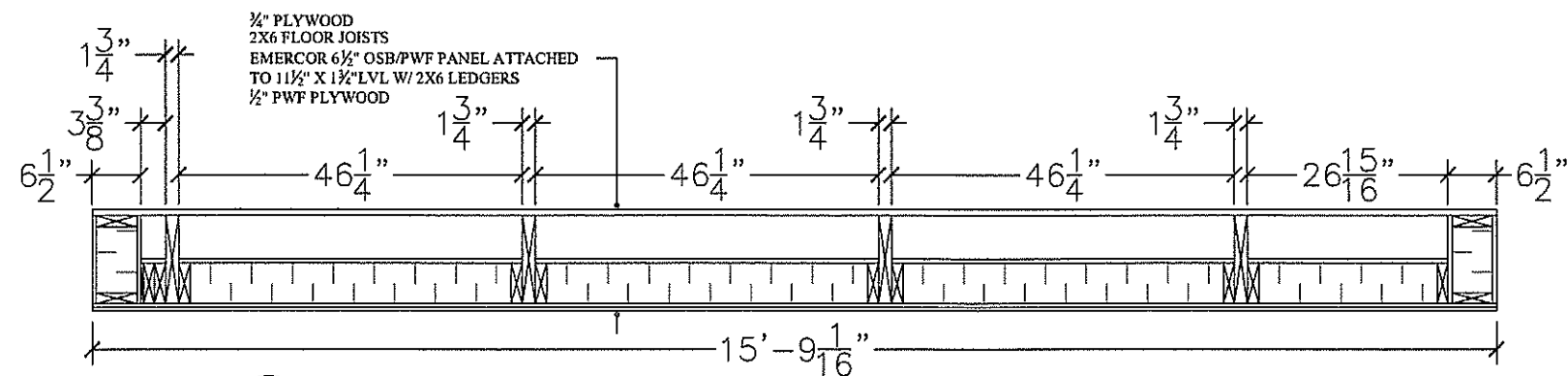
SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number
E8072

Scale not to scale Drawn C. Bastow
Date Dec. 12, 2008 Checked _____

Sheet Title
Grade Beams
Page 1

Sheet Number
Z-106



DAVID C. WOODALL STUDENT ENGINEERING

Signature _____

Date 22/5/09

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No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client _____

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Decathlon Team
Calgary, Alberta

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SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number
E8072

Scale $\frac{1}{2}" = 1'$ Drawn C. Bastow

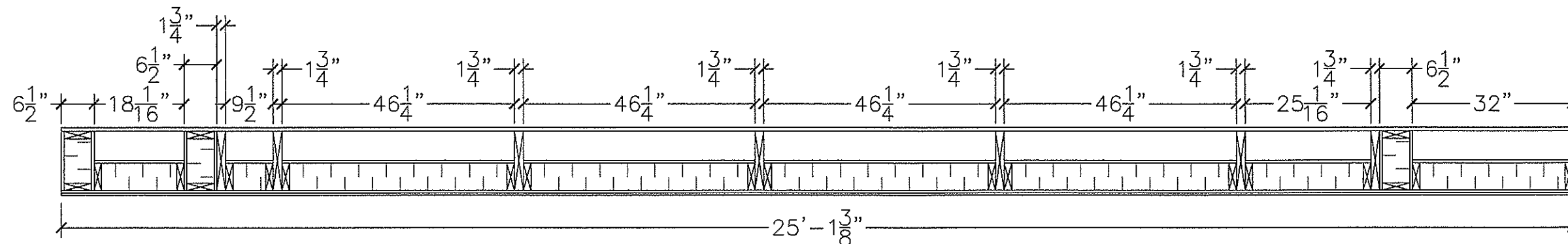
Date Dec. 12, 2008 Checked _____

Sheet Title

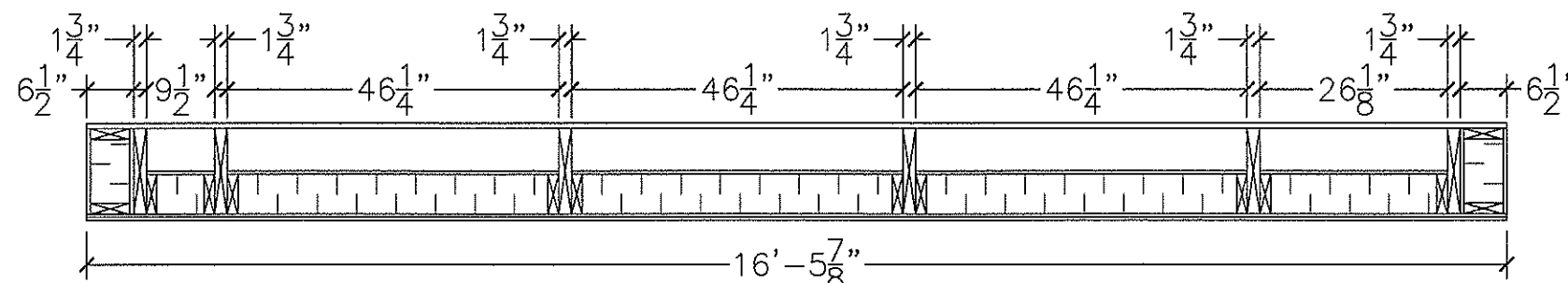
Floor
Sections

Sheet Number

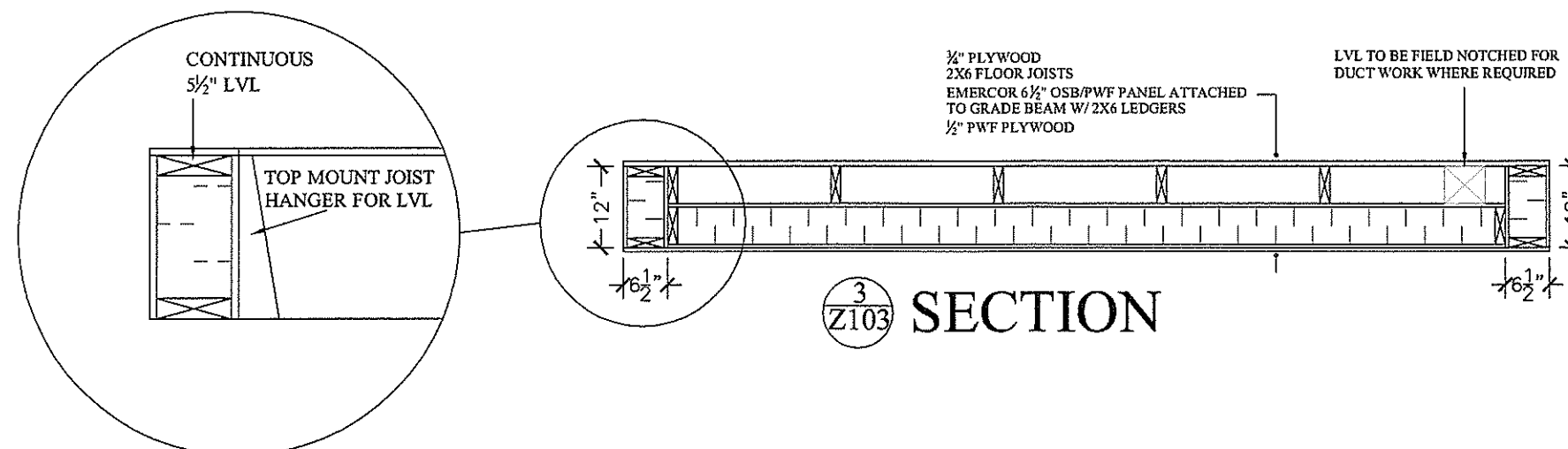
Z-107



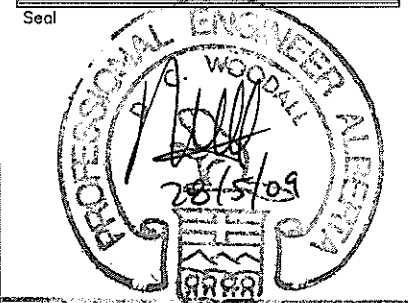
1
Z103 CORE SECTION



2
Z103 BEDROOM SECTIONS



3
Z103 SECTION



PERMIT TO PRACTICE
DAVID C WOODALL STRUCTURAL ENGINEERING

Signature _____

Date 28/5/09

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Revisions No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client _____

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Decathlon Team
Calgary, Alberta

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104 COMMERCIAL COURT
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SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number
E8072

Scale 1/2" = 1' Drawn G. Bastow

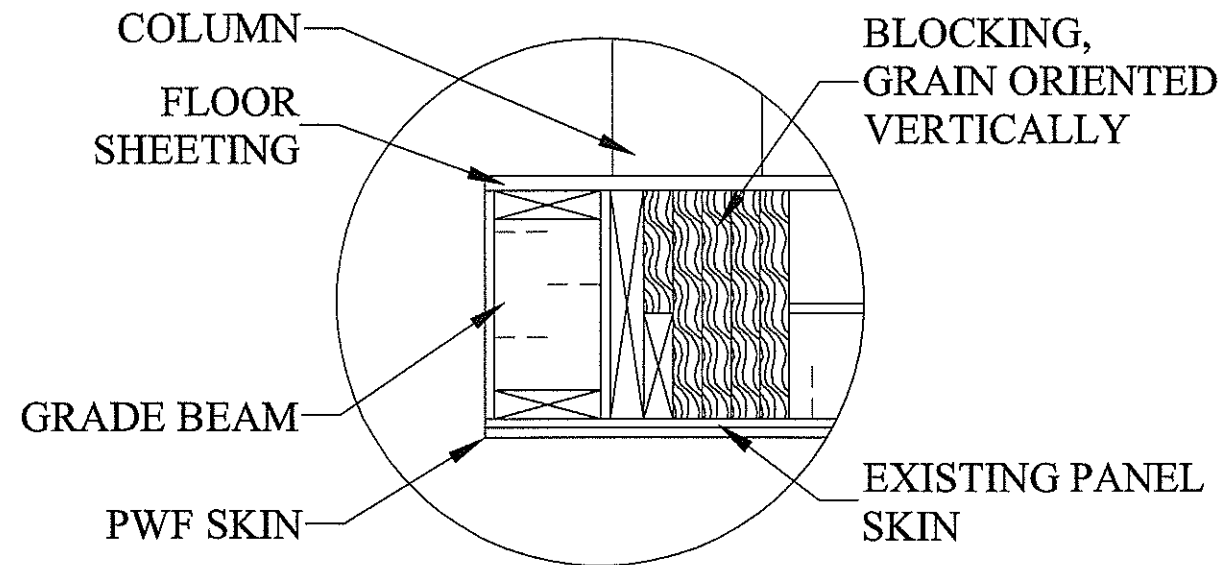
Date Dec. 12, 2008 Checked _____

Sheet Title _____

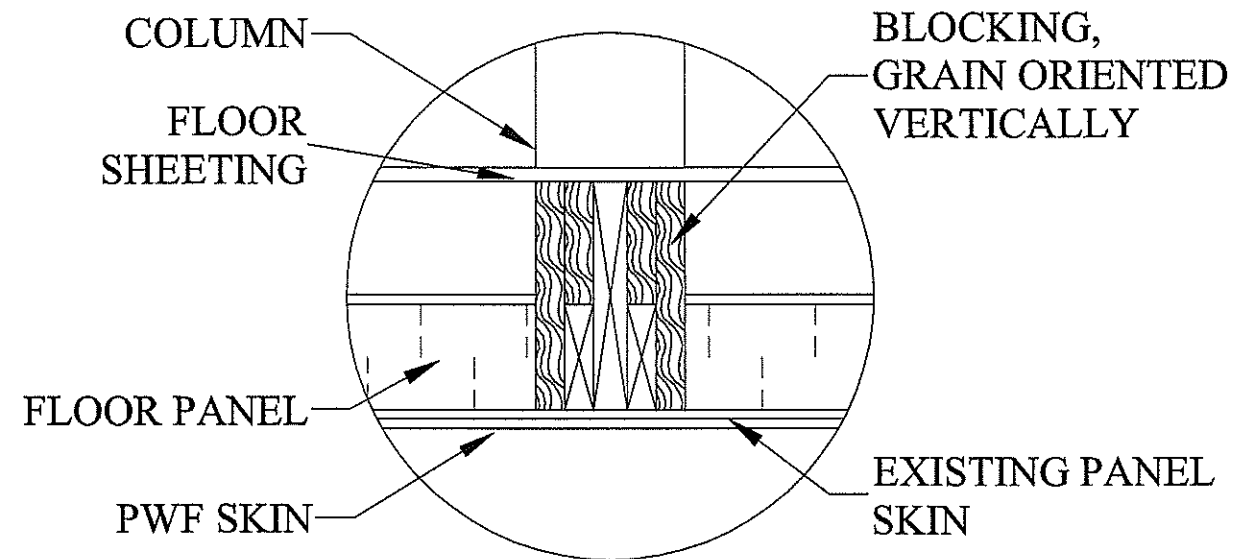
Floor
Sections

Sheet Number _____

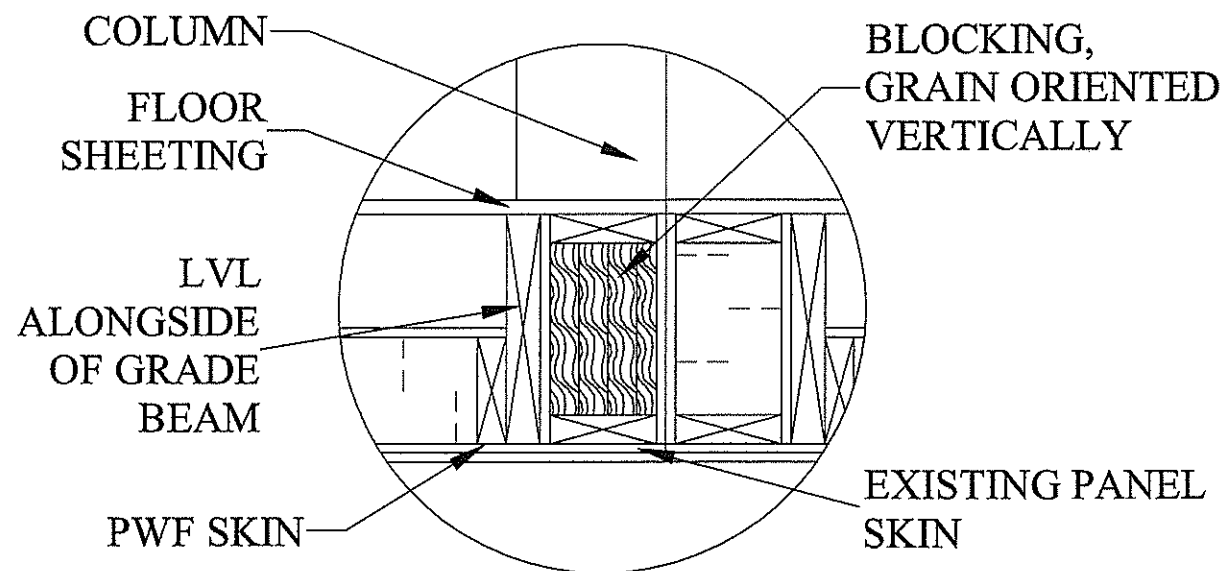
Z-108



1
Z101 **BLOCKING AT**
EDGE OF PANEL

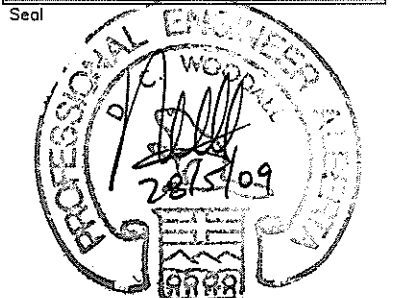


2
Z101 **BLOCKING AT**
STRONG BACK



3
Z101 **BLOCKING AT**
GRADE BEAM

BLOCKING TO BE SPF No.1/No.2.
ORIENT BLOCKING GRAIN
VERTICALLY
FASTEN BLOCKING TO STRUCTURE
w/ CONSTRUCTION ADHESIVE & 3½"
NAILS @ 6" o.c.



Signature *[Signature]*
Date 28/5/09

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Revisions	No.	Seq.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW	
2	CB	05/26/09	ISSUED FOR REVIEW	

Client

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Decathlon Team
Calgary, Alberta

EMERCOR
104 COMMERCIAL COURT
CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
WWW.EMERCOR.COM

Project
SolAbode
Calgary, Alberta
Washington, DC

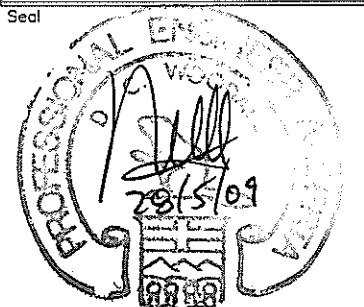
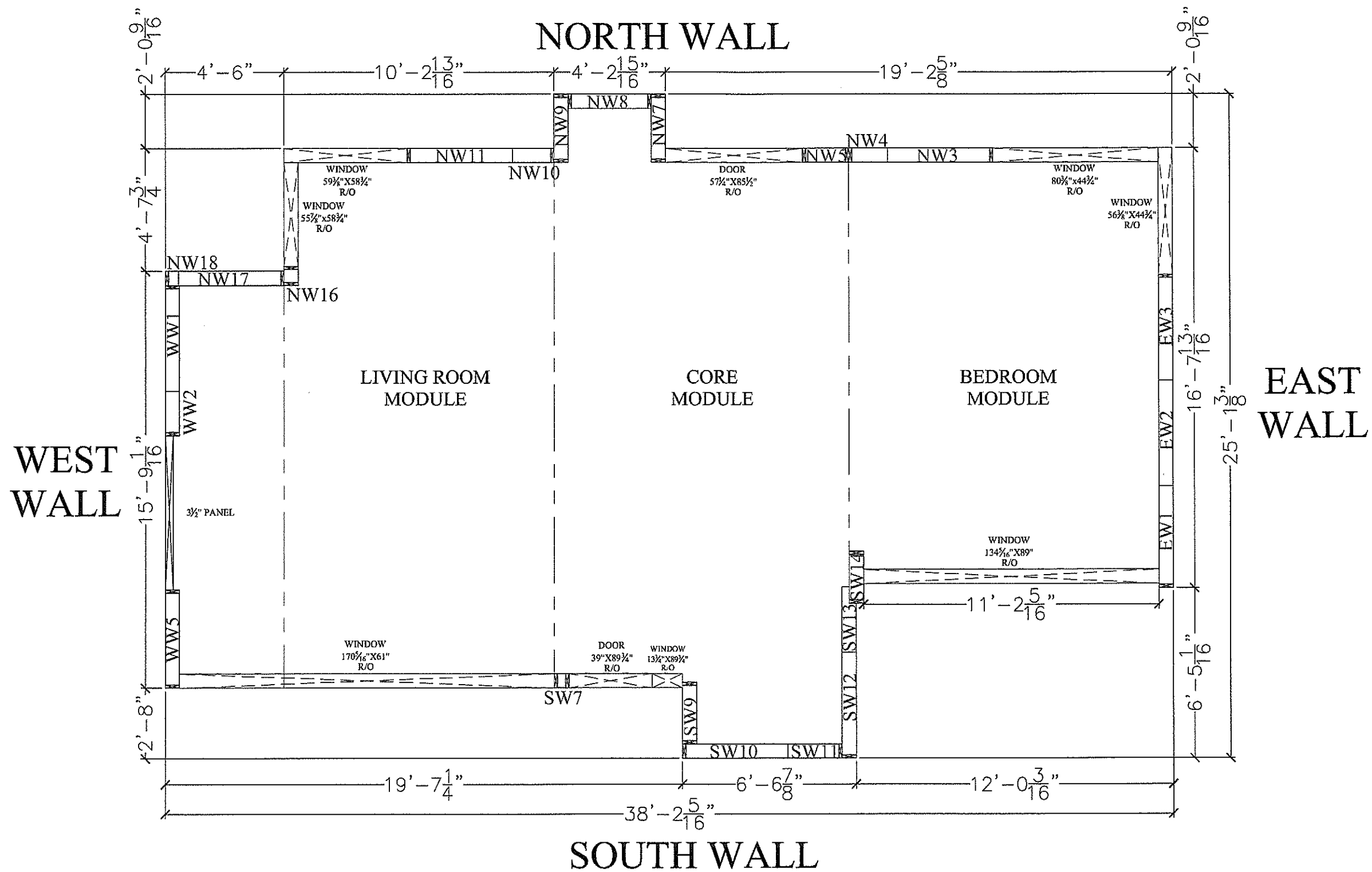
Emercor Project Number
E8072

Scale not to scale Drawn G. Bastow

Date April 6, 2009 Checked _____

Sheet Title
Blocking
Details

Sheet Number
Z-109



Signature _____

Date 28/5/09

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Revisions			
No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client _____

Alberta Solar
Decathlon Team
Calgary, Alberta

EMERCOR

104 COMMERCIAL COURT
CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
WWW.EMERCOR.COM

Project _____

SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number
E8072

Scale 1/4" = 1' Drawn G. Bastow

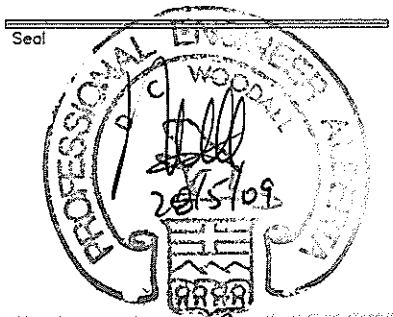
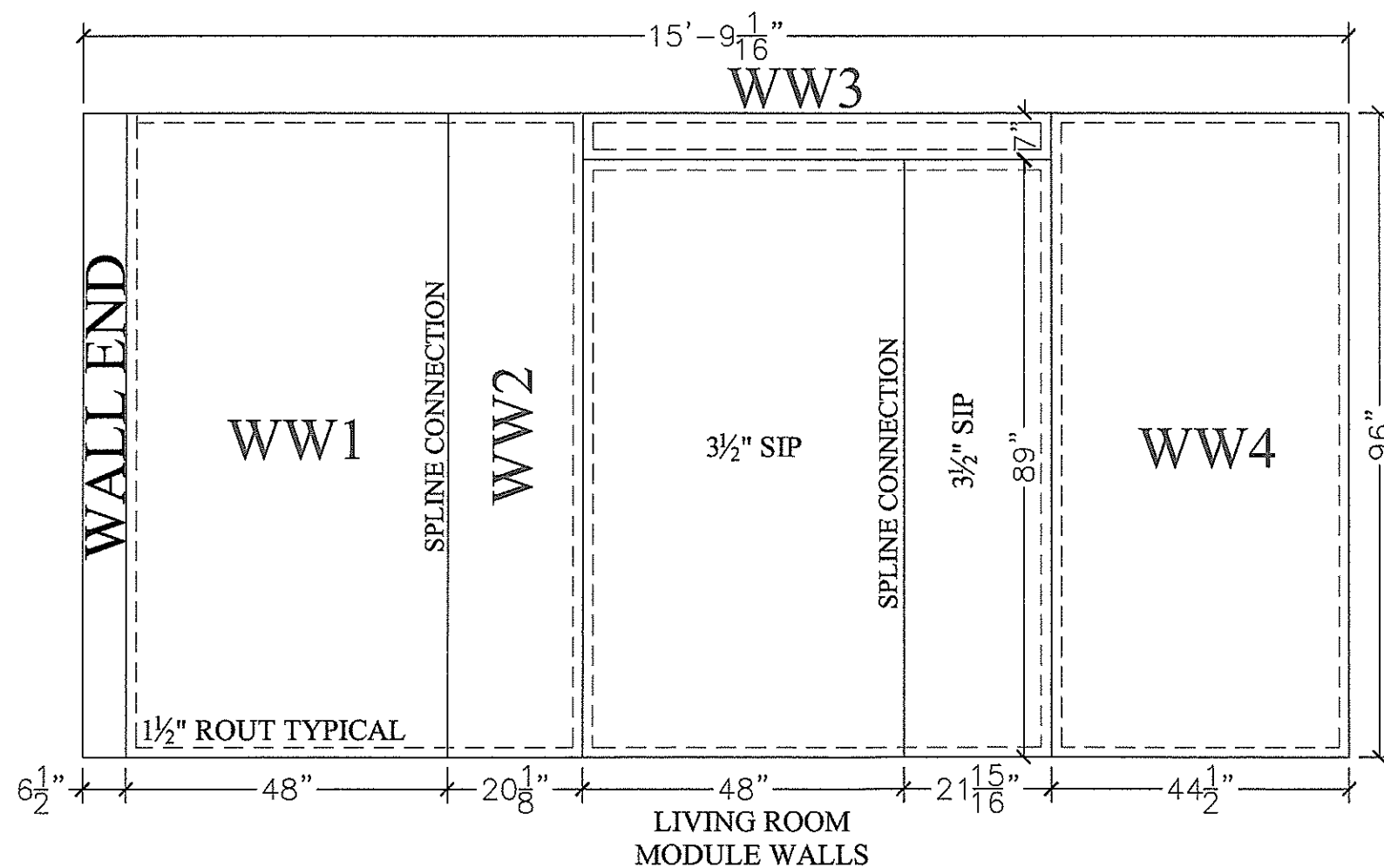
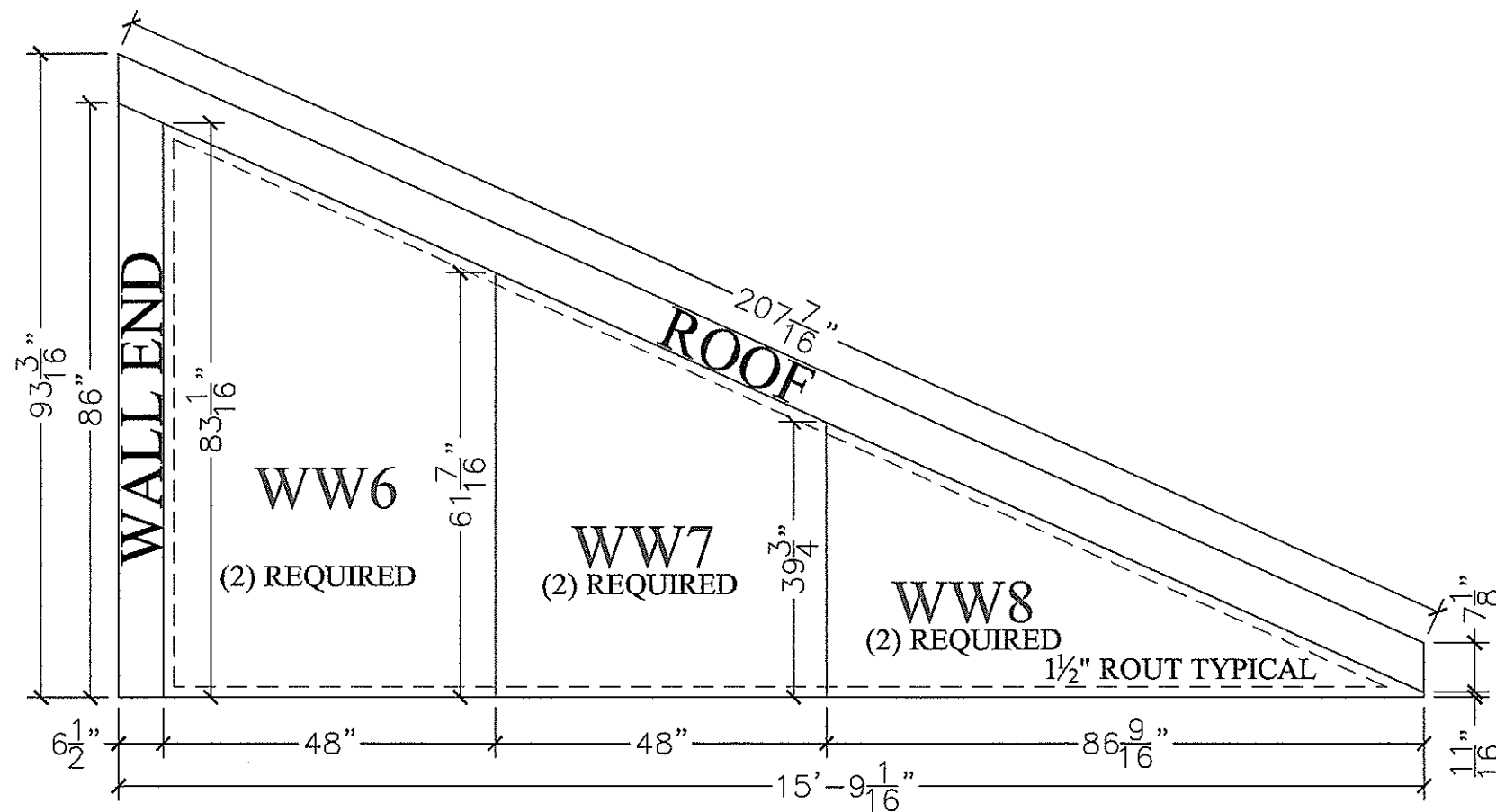
Date March 18, 2009 Checked _____

Sheet Title _____

Wall
Layout

Sheet Number _____

Z-110



David C. Woodall
Professional Engineer

Signature: *[Signature]*
Date: 28/5/09

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1	CB		05/14/09	ISSUED FOR REVIEW
2	CB		05/26/09	ISSUED FOR REVIEW

Client

Alberta Solar
Decathlon Team
Calgary, Alberta

EMERCOR
104 COMMERCIAL COURT
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PHONE: 1-866-EMERCOR
WWW.EMERCOR.COM

Project
SolAbode
Calgary, Alberta
Washington, DC

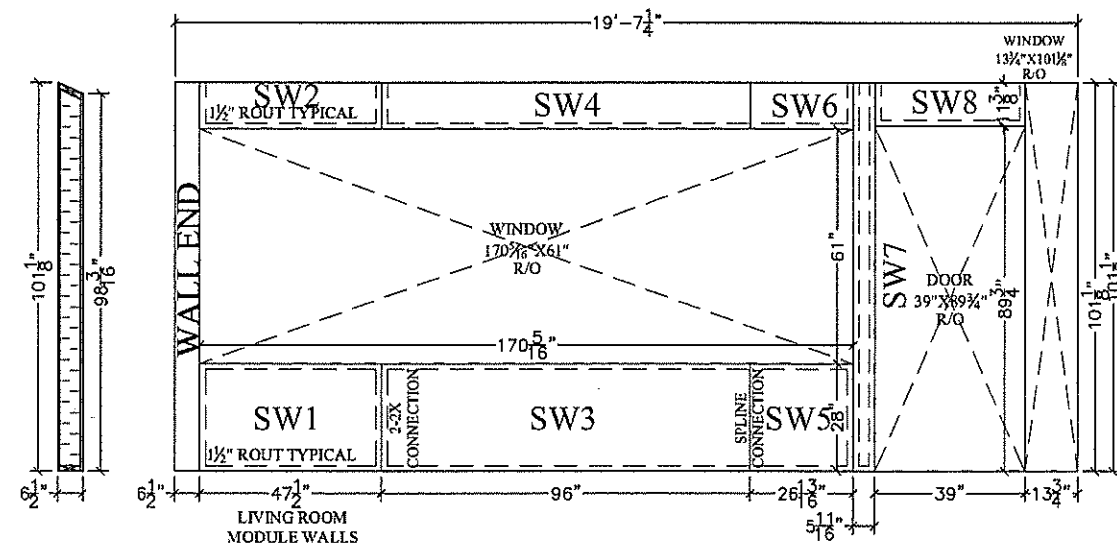
Emercor Project Number
E8072

Scale: March 18, 2009 1/8" = 1'-0" From 1C. Bastow

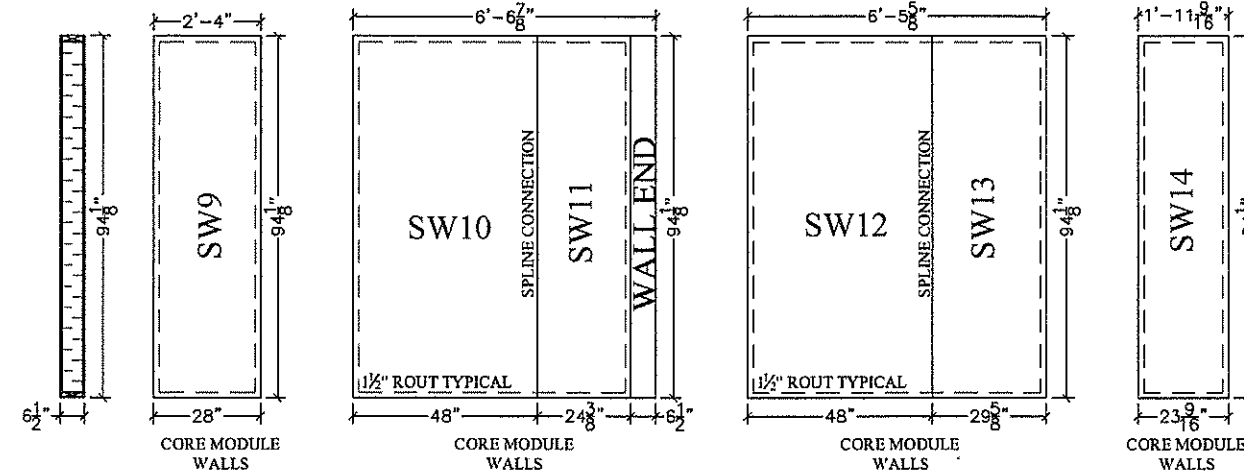
Date: Dec. 12, 2008 Checked: _____

Sheet Title
West Wall
Elevation

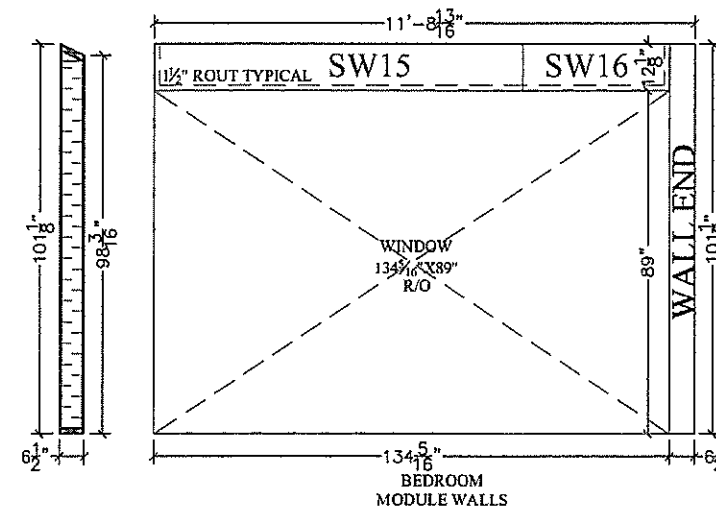
Sheet Number
Z-111



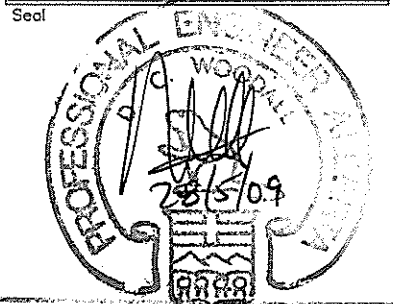
SOUTH WALL



SOUTH WALL



SOUTH WALL



PERMIT TO PRACTICE
DAVID C WOODALL STRUCTURAL ENGINEERING

Signature _____

Date 28/5/09

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Revisions			
No.	Seq.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client _____

Alberta Solar
Decathlon Team
Calgary, Alberta

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Project _____

SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number
E8072

Scale March 18, 2009 1/8" = 1'-0" From IC Bastow

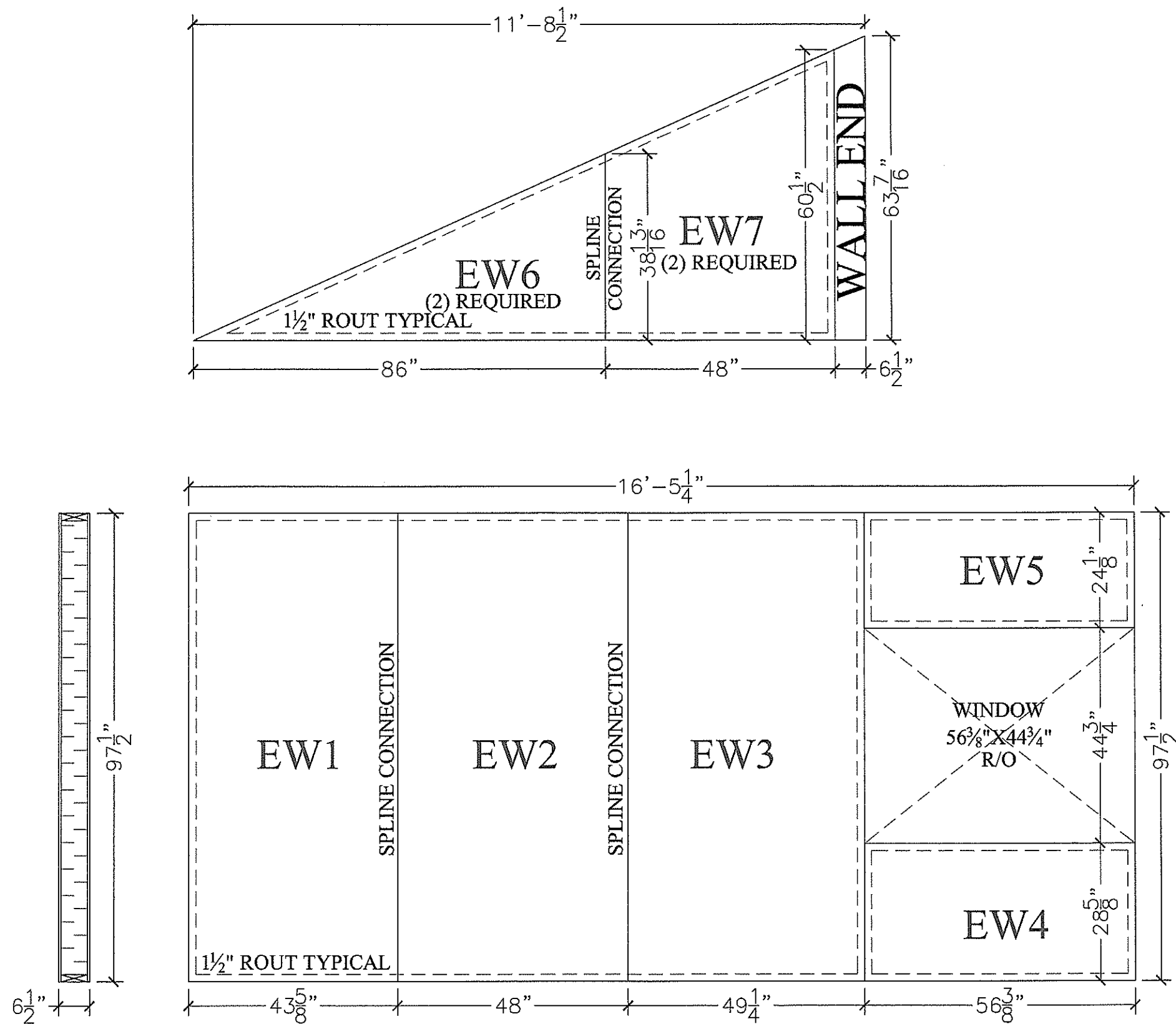
Date Dec. 12, 2008 Checked _____

Sheet Title _____

South Wall
Elevation

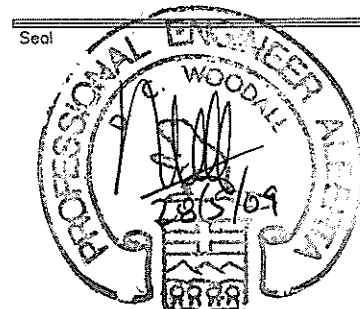
Sheet Number _____

Z-112



BEDROOM
MODULE WALLS

EAST WALL



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DAVID C WOODALL STRUCTURAL ENGINEERING

Signature [Signature]

Date 28/5/09

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Revisions				
No.	Sig.	Date	Description	
1	CB	05/14/09	ISSUED FOR REVIEW	
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Client

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Decathlon Team
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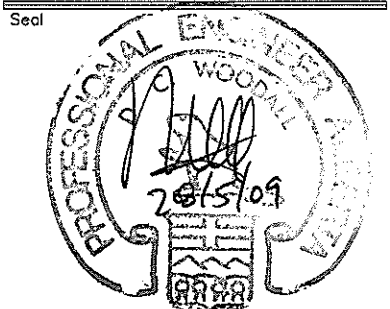
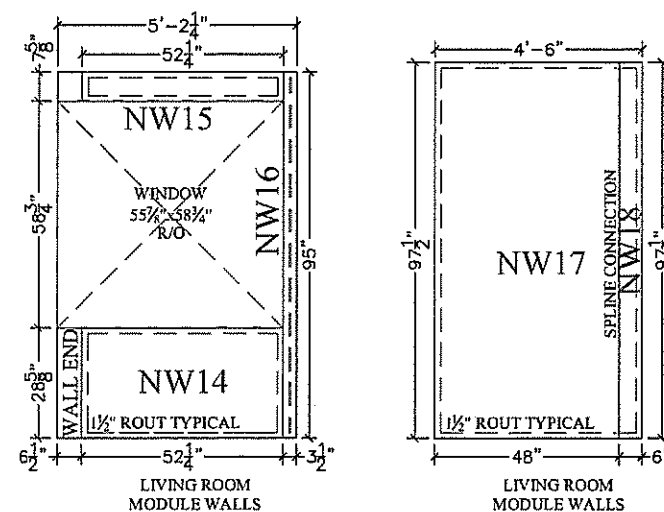
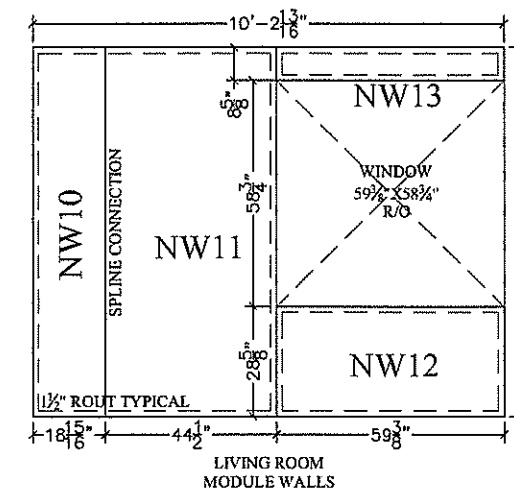
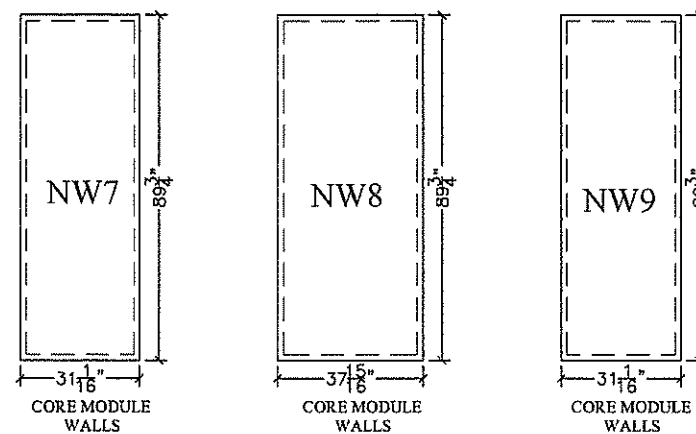
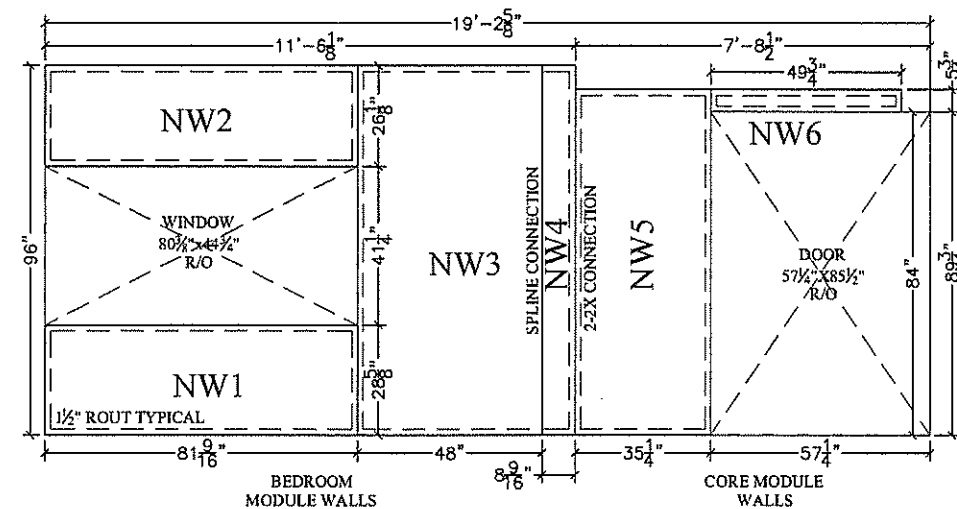
Emercor Project Number
E8072

Scale March 18, 2009 1/8" = 1'-0" I.C. Bastow

Date Dec. 12, 2008 Checked _____

Sheet Title
East Wall
Elevation

Sheet Number
Z-113



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DAVID C WOODALL'S STRUCTURAL ENGINEERING

Signature [Signature]

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Revisions			
No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
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Client

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Calgary, Alberta
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Emercor Project Number

E8072

Scale March 18, 2009 / 2" = 10' Drawn 10. Bastow

Date Dec. 12, 2008 Checked _____

Sheet Title

North Wall
Elevation

Sheet Number

Z-114

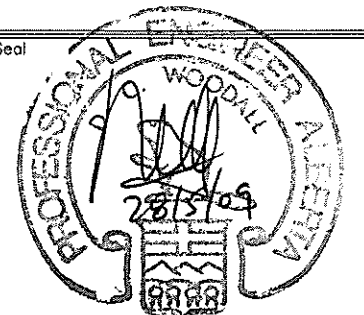
PWF
STRAP

3
Z110

4
Z110

5
Z110

6
Z110



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DAVID C WOODALL STRUCTURAL ENGINEERING

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1	CB	05/14/09	ISSUED FOR REVIEW
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Washington, DC

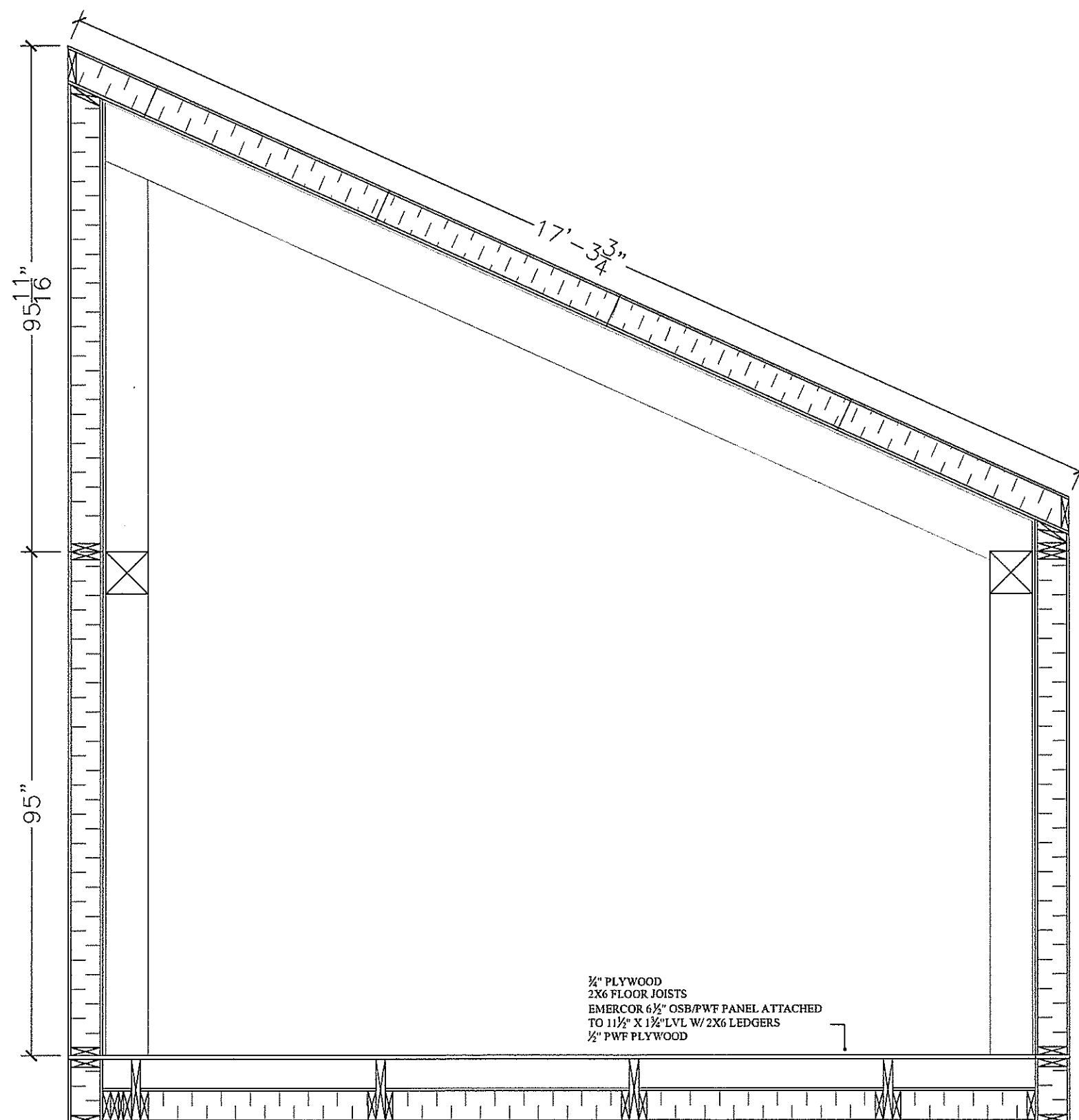
Emercor Project Number
E8072

Scale not to scale Drawn C. Bastow

Date Sept. 23, 2008 Checked _____

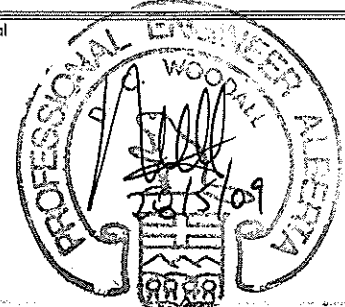
Sheet Title
Corner
Details

Sheet Number
Z-115



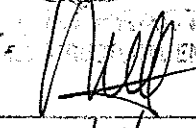
3/4" PLYWOOD
 2X6 FLOOR JOISTS
 EMERCOR 6 1/2" OSB/PWF PANEL ATTACHED
 TO 11 1/2" X 1 1/2" LVL W/ 2X6 LEDGERS
 1/2" PWF PLYWOOD

BUILDING SECTION 1
Z102



Seal

DAVID C. WOOD, P. ENG.

Signature 

Date 28/5/09

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Revisions No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client

Alberta Solar
Decathlon Team
Calgary, Alberta

EMERCOR
104 COMMERCIAL COURT
CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
WWW.EMERCOR.COM

Project

SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number

E8072

Scale 1/2" = 1' Drawn C. Bastow

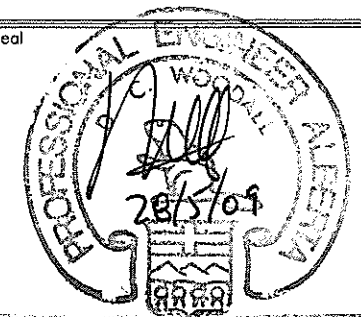
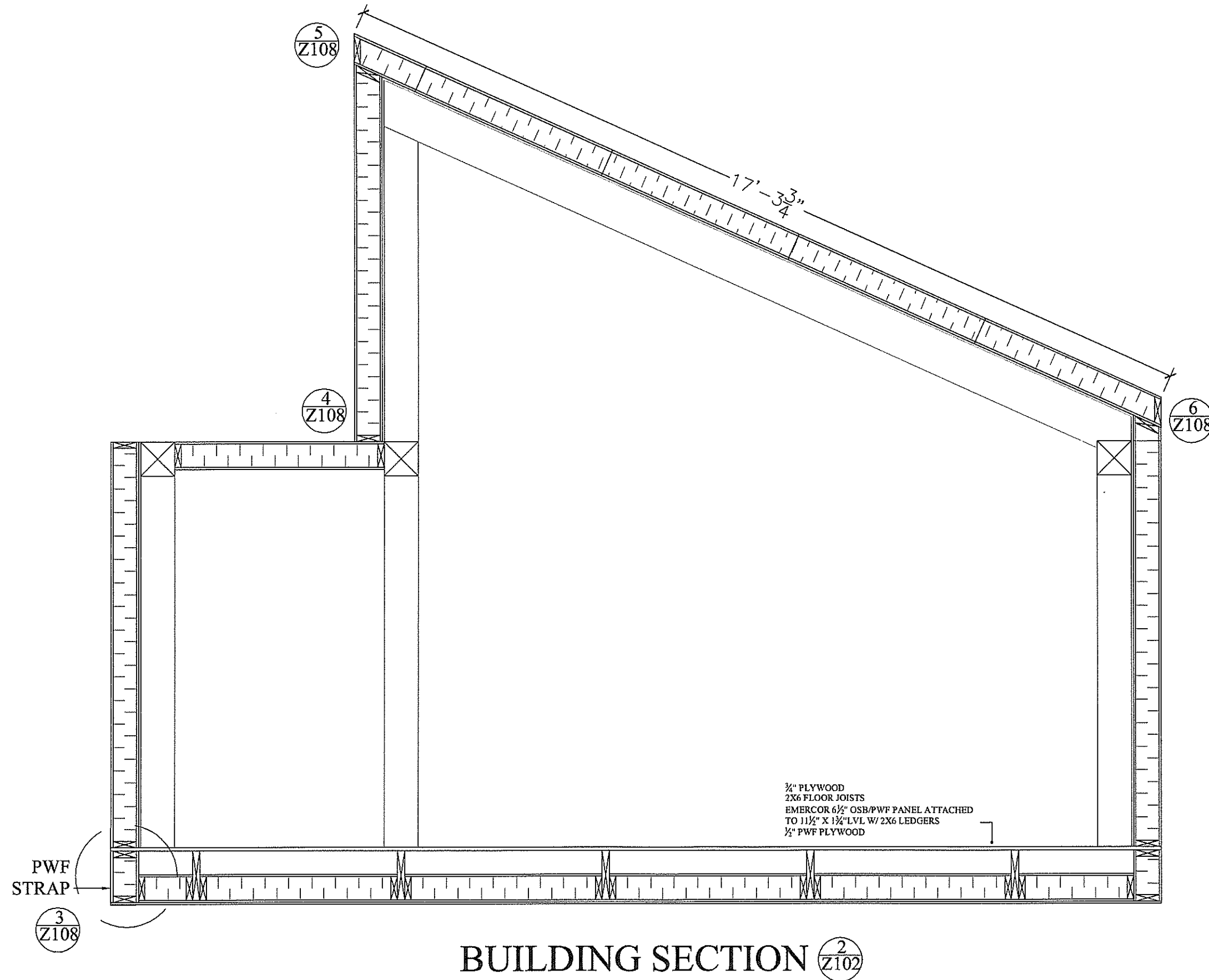
Date Dec. 12, 2008 Checked _____

Sheet Title

Building
Section

Sheet Number

Z-116



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DAVID C. WOODALL ENGINEERING

Signature _____

Date 28/5/09

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1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client

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Calgary, Alberta

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PHONE: 1-866-EMERCOR
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Project

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Calgary, Alberta
Washington, DC

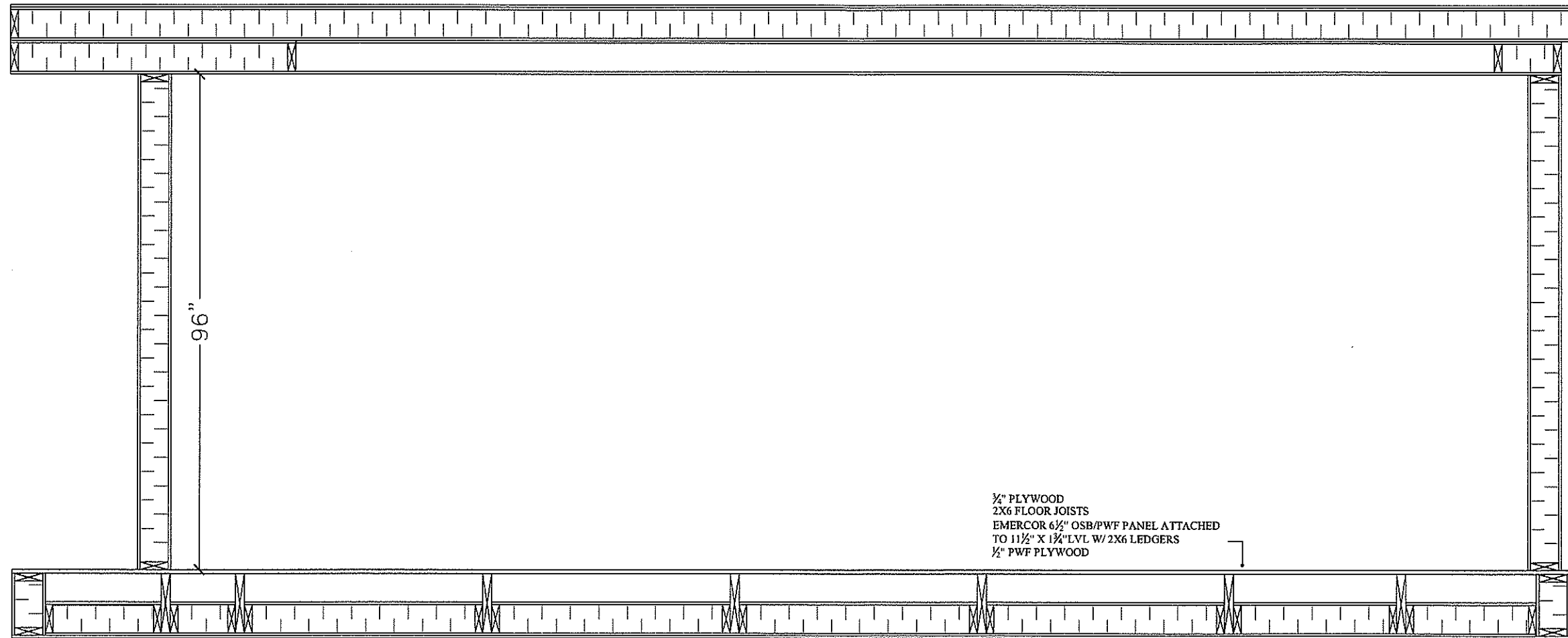
Emercor Project Number
E8072

Scale $1/2" = 1'$ Drawn C. Bastow

Date Dec. 12, 2008 Checked _____

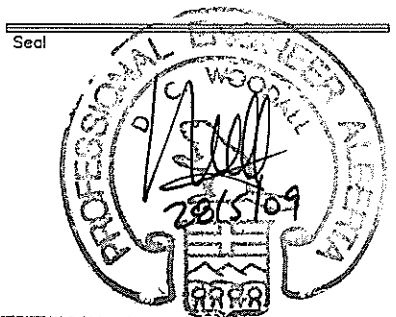
Sheet Title
Building
Section

Sheet Number
Z-117



BUILDING SECTION 1
Z103

1/2" PLYWOOD
2X6 FLOOR JOISTS
EMERCOR 6 1/2" OSB/PWF PANEL ATTACHED
TO 11 1/2" X 1 1/4" LVL W/ 2X6 LEDGERS
1/2" PWF PLYWOOD



PERMIT PRACTICE
DAVID C WOODALL STRUCTURAL ENGINEERING

Signature _____

Date 28/5/09

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Revisions No.	Sig.	Date	Description
1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client _____

Alberta Solar
Decathlon Team
Calgary, Alberta

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SolAbode
Calgary, Alberta
Washington, DC

Emercor Project Number _____

E8072

Scale 1/2" = 1' Drawn C. Bastow

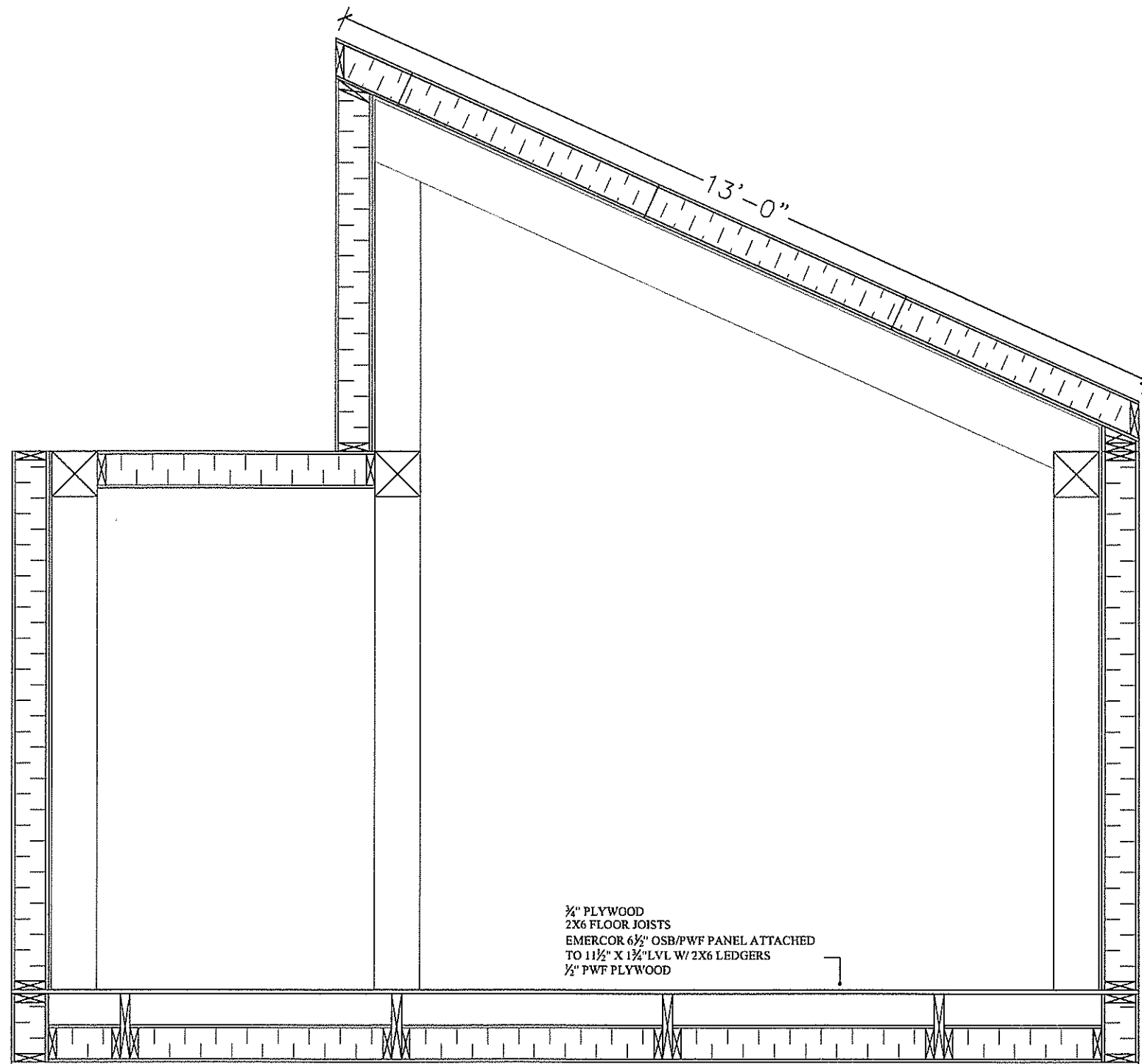
Date Dec. 12, 2008 Checked _____

Sheet Title _____

Building
Section

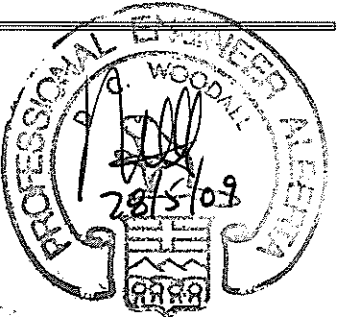
Sheet Number _____

Z-118



1/2" PLYWOOD
 2X6 FLOOR JOISTS
 EMERCOR 6 1/2" OSB/PWF PANEL ATTACHED
 TO 11 1/2" X 1 3/4" LVL W/ 2X6 LEDGERS
 1/2" PWF PLYWOOD

BUILDING SECTION 2
Z103



PRACTICE
 DAVID C WOOD - ALL STRUCTURAL ENGINEERING
 Signature _____
 Date 28/5/09
PERMIT NUMBER: P 9169
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Revisions	No.	Issued	Date	Description
1	CB	05/14/09		ISSUED FOR REVIEW
2	CB	05/26/09		ISSUED FOR REVIEW

Client

Alberta Solar
 Decathlon Team
 Calgary, Alberta

EMERCOR
 104 COMMERCIAL COURT
 CALGARY, ALBERTA, CANADA T3Z 2A5
 PHONE: 1-866-EMERCOR
 WWW.EMERCOR.COM

Project

SolAbode
 Calgary, Alberta
 Washington, DC

Emercor Project Number
 E8072

Scale 1/2" = 1' Drawn C. Bastow

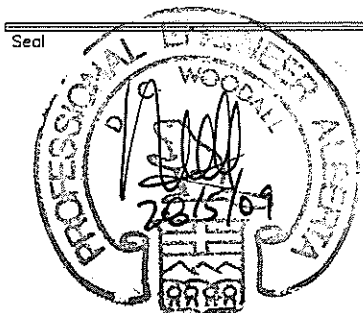
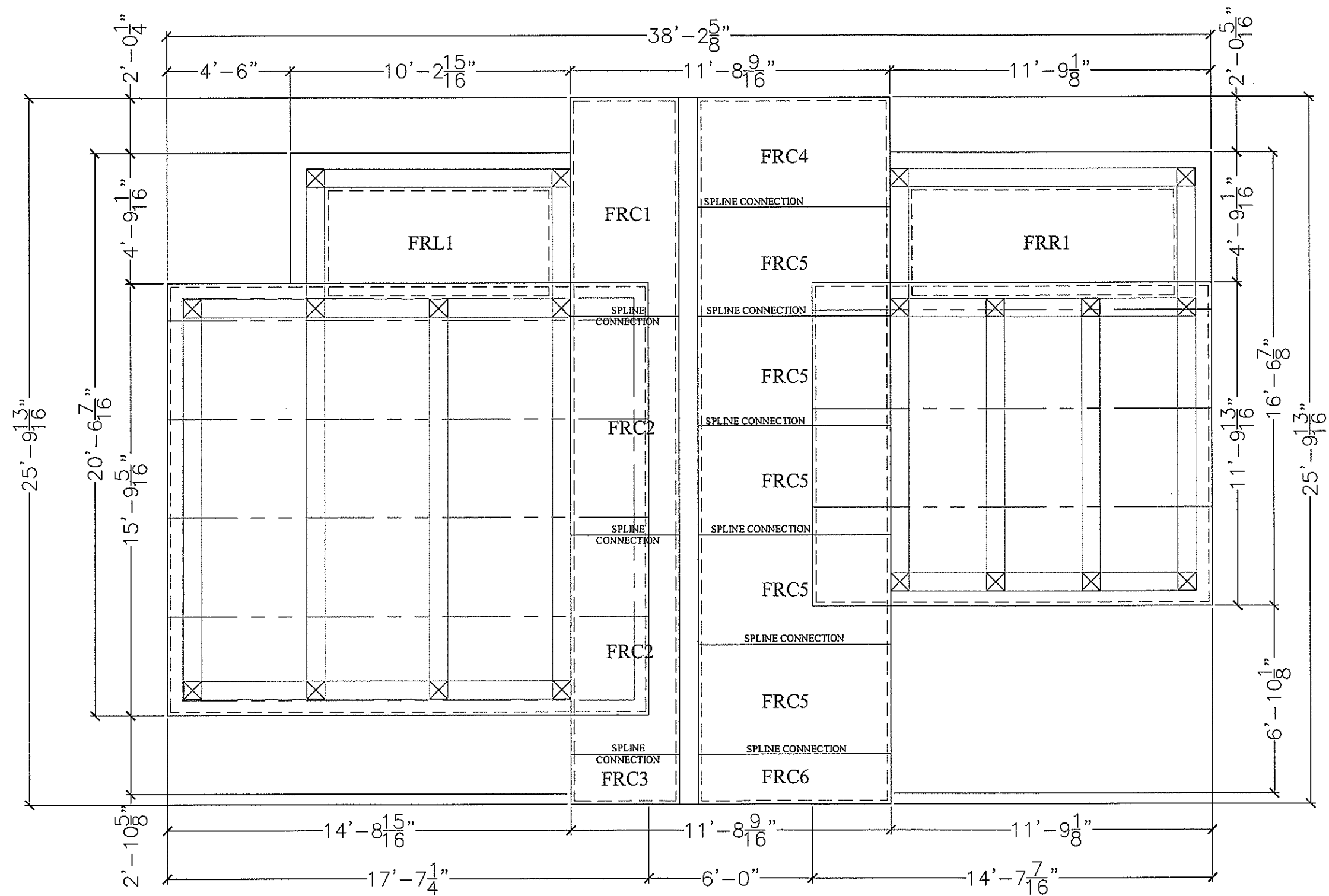
Date Dec. 12, 2008 Checked _____

Sheet Title

Building
 Section

Sheet Number

Z-119



DEPARTMENT OF PRACTICE
DAVID C. WOODALL STRUCTURAL ENGINEERING

Signature _____

Date 2015/09

PERMIT NUMBER: P 9169

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Revisions				
No.	Iss.	Date	Description	
1	CB	05/14/09	ISSUED FOR REVIEW	
2	CB	05/26/09	ISSUED FOR REVIEW	

Client _____

Alberta Solar
Decathlon Team
Calgary, Alberta

EMERCOR
104 COMMERCIAL COURT
CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
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Project
SolAbode
Calgary, Alberta
Washington, DC

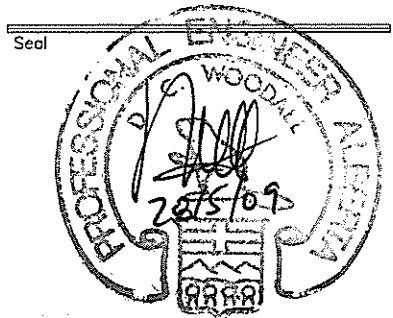
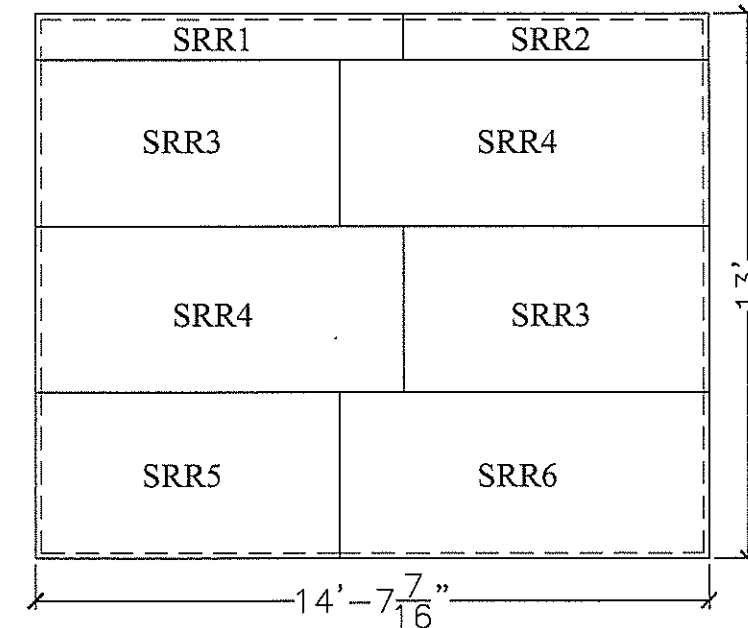
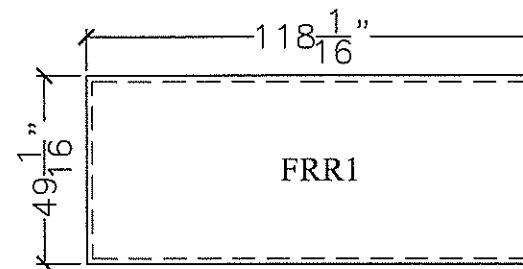
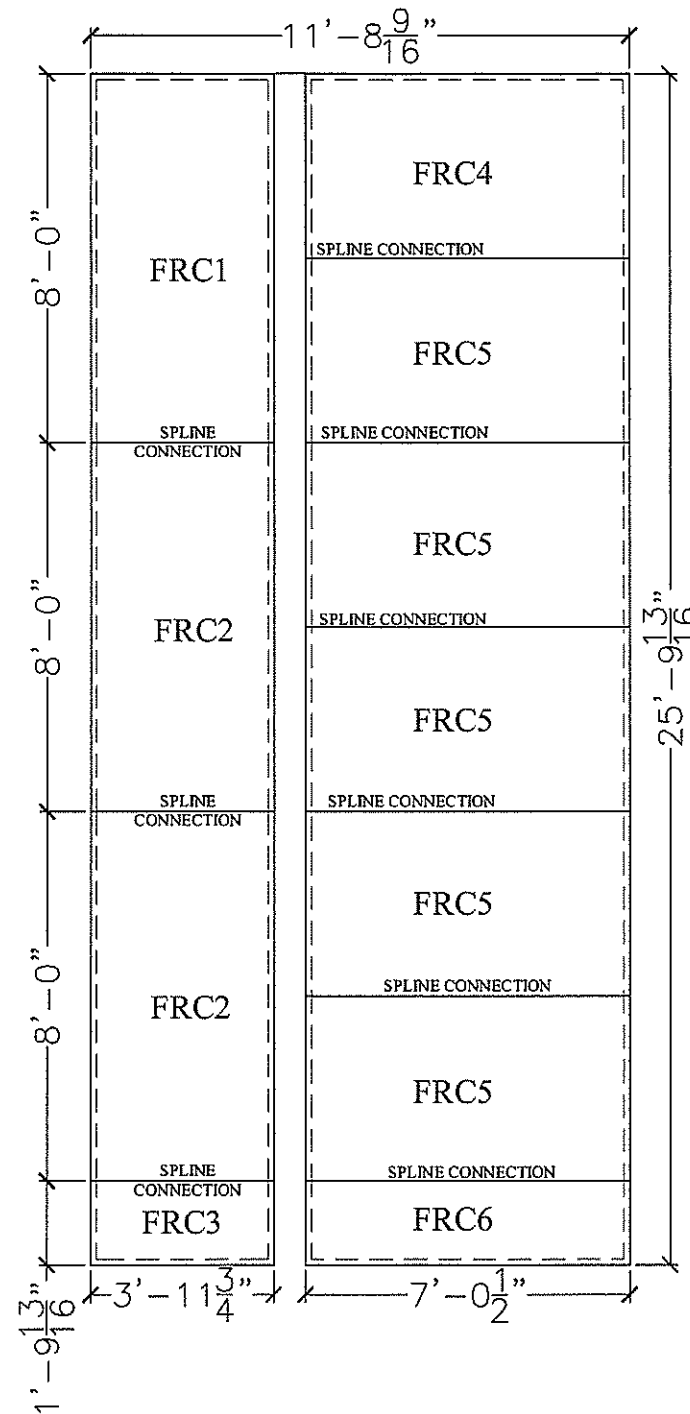
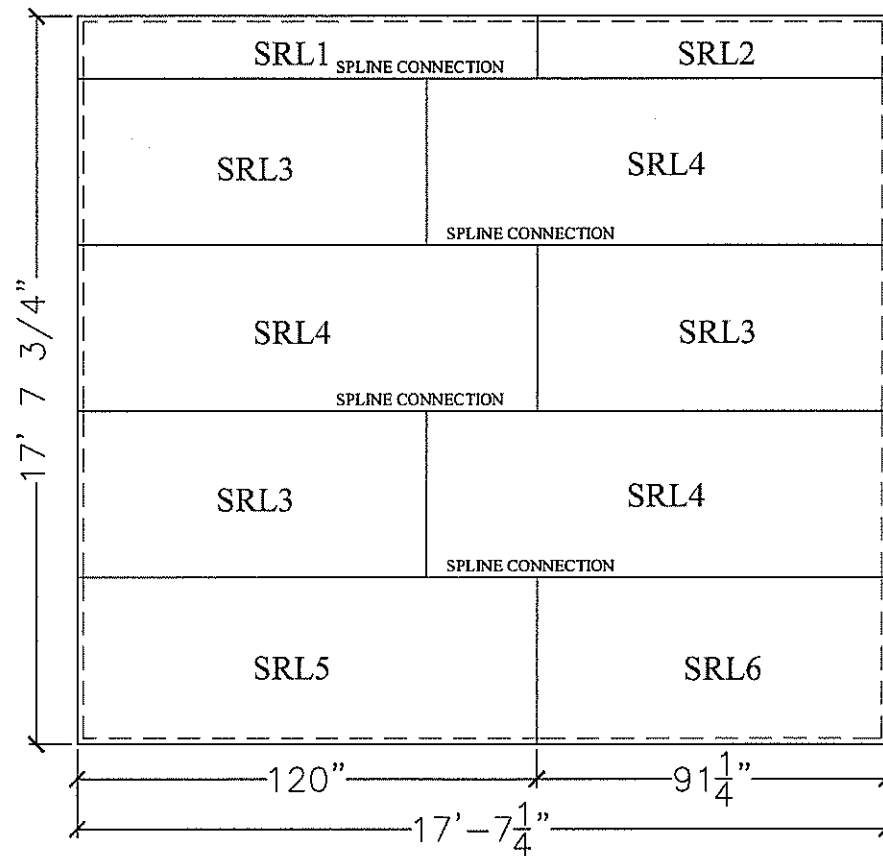
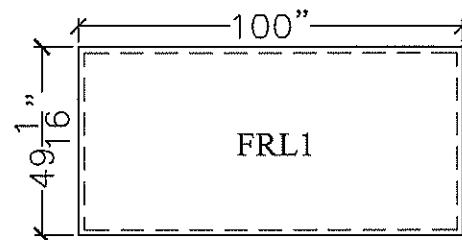
Emercor Project Number
E8072

Scale 1/4" = 1' Drawn C. Bastow

Date Dec. 12, 2008 Checked _____

Sheet Title
Roof
Assembly

Sheet Number
Z-120



Signature _____
Date 28/5/09

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Revisions				
No.	Sig.	Date	Description	
1	CB	05/14/09	ISSUED FOR REVIEW	
2	CB	05/26/09	ISSUED FOR REVIEW	

Client _____

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Calgary, Alberta

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SolAbode
Calgary, Alberta
Washington, DC

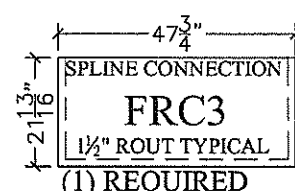
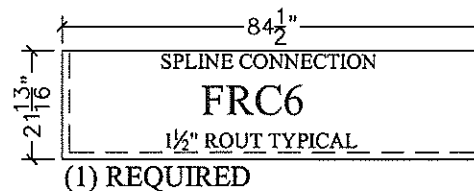
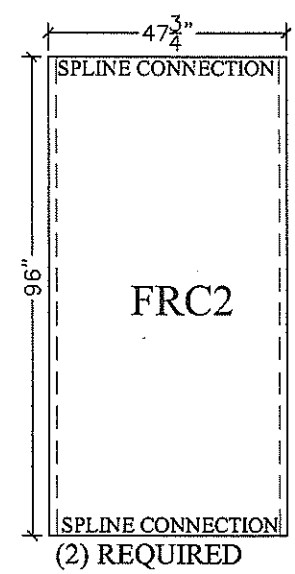
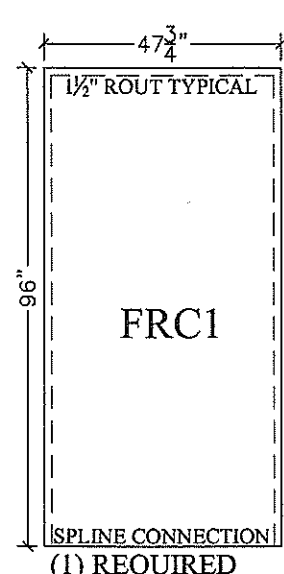
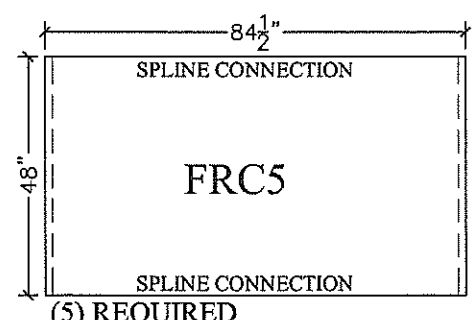
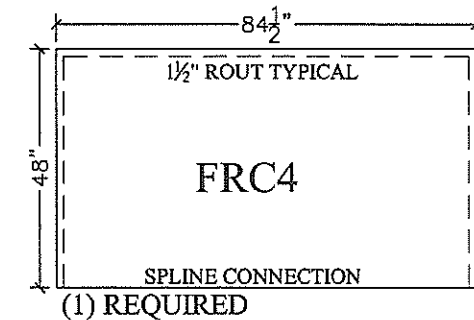
Emercor Project Number
E8072

Scale not to scale Drawn C. Bastow

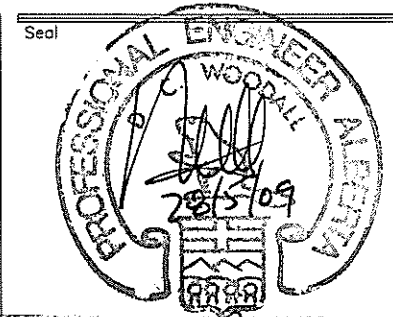
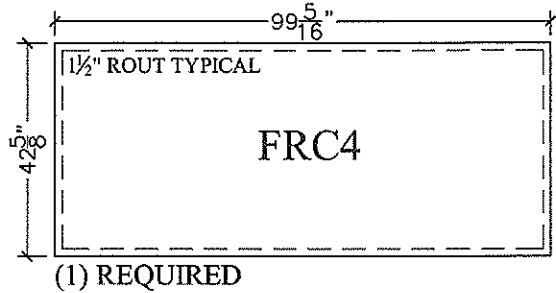
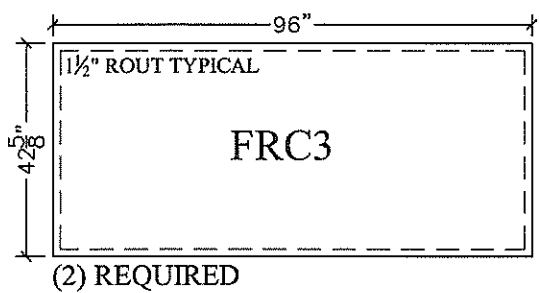
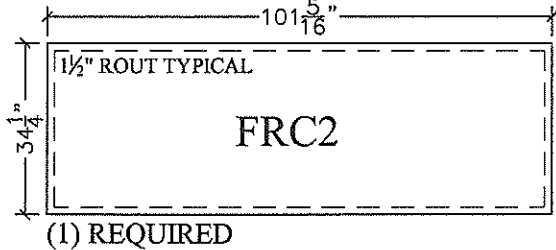
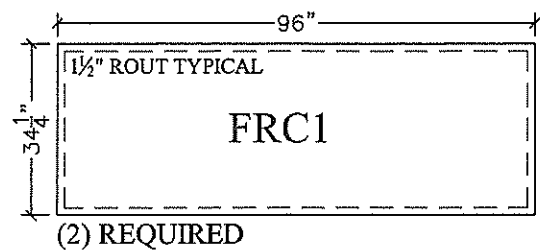
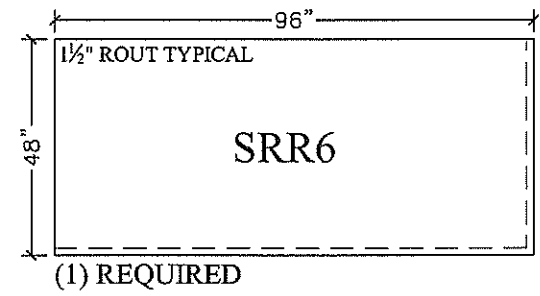
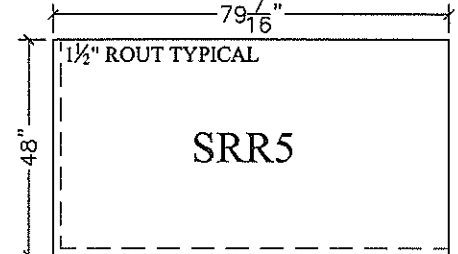
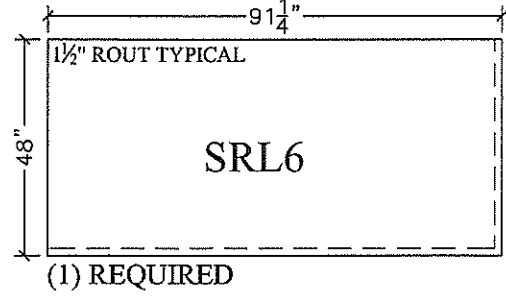
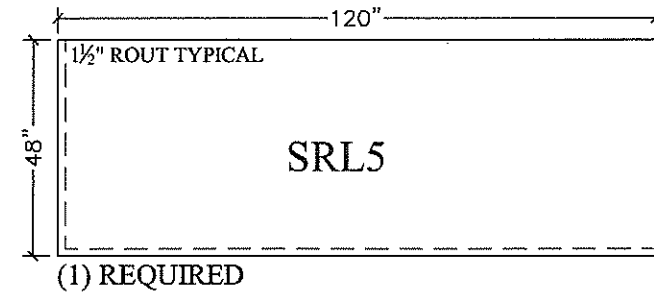
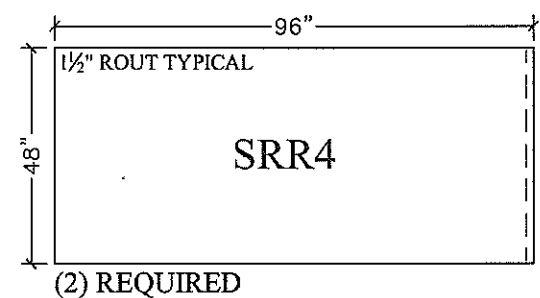
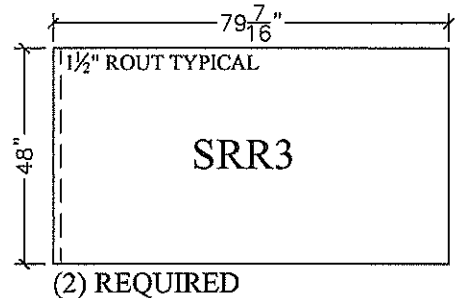
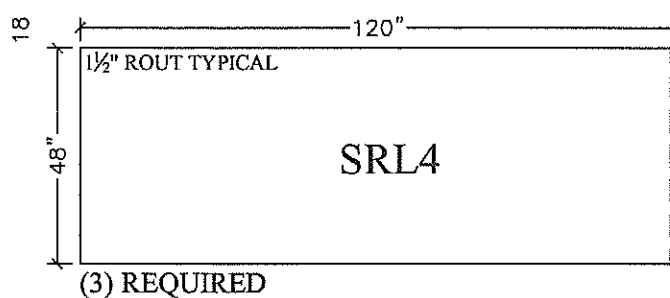
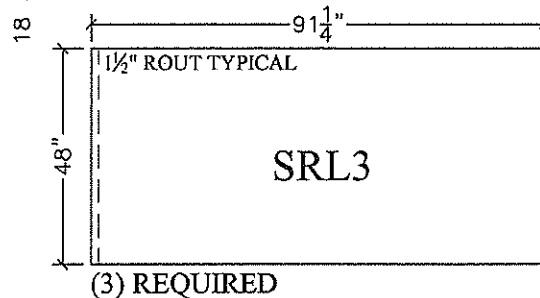
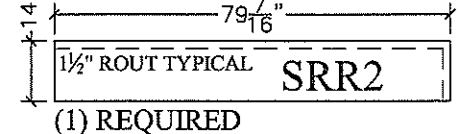
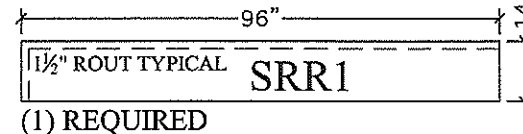
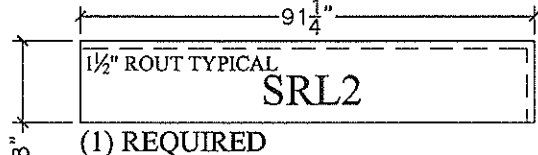
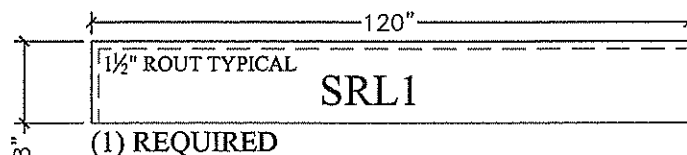
Date Dec. 12, 2008 Checked _____

Sheet Title
Roof Panel
Layout

Sheet Number
Z-121



ROOF PANELS EMERCOR 6 1/2" OSB/OSB PANELS



DAVID C WOODALL STRUCTURAL ENGINEERING
Signature _____
Date 28/5/09
PERMIT NUMBER: P 9169
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Revisions			
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1	CB	05/14/09	ISSUED FOR REVIEW
2	CB	05/26/09	ISSUED FOR REVIEW

Client

Alberta Solar
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Calgary, Alberta

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CALGARY, ALBERTA, CANADA T3Z 2A5
PHONE: 1-866-EMERCOR
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SolAbode
Calgary, Alberta
Washington, DC

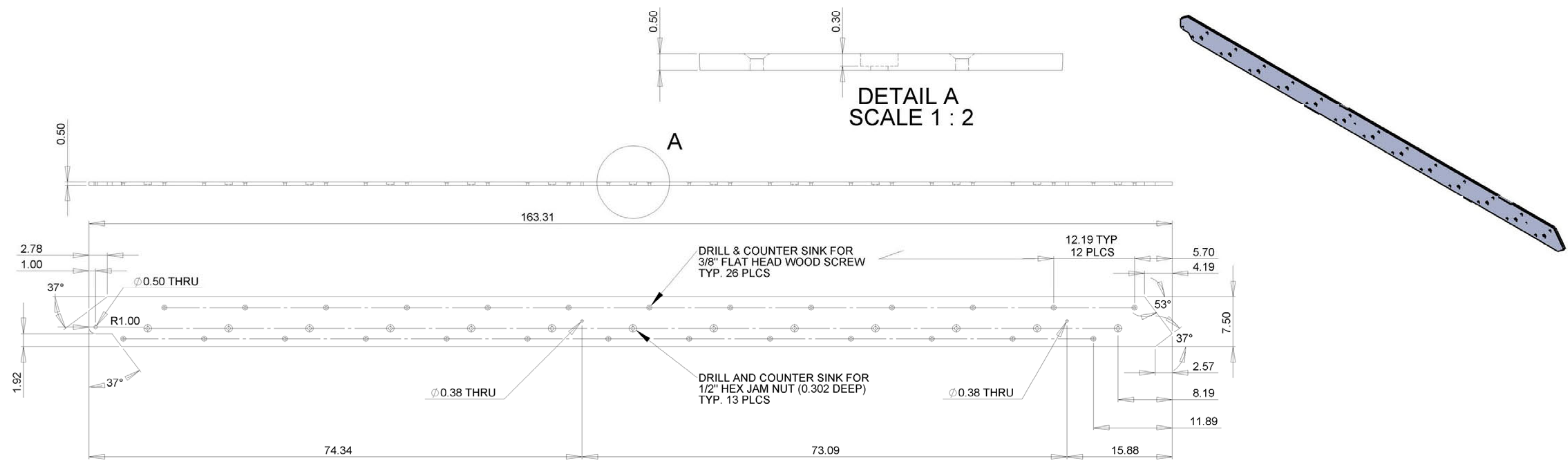
Emercor Project Number
E8072

Scale not to scale Drawn C. Bastow

Date Dec. 12, 2008 Checked _____

Sheet Title
Roof
Panels

Sheet Number
Z-122



NOTES:

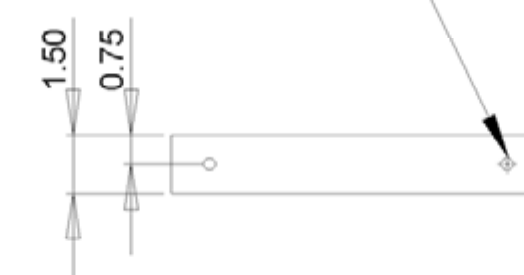
SCALE 1:10
BUILD TWO STRINGERS, ONE MUST BE MIRRORED
MATERIAL TO BE ALUMINUM ALLOY 6061 OR EQUIVALENT.
CLEAR ANODIZED FINISH.



NOTES:

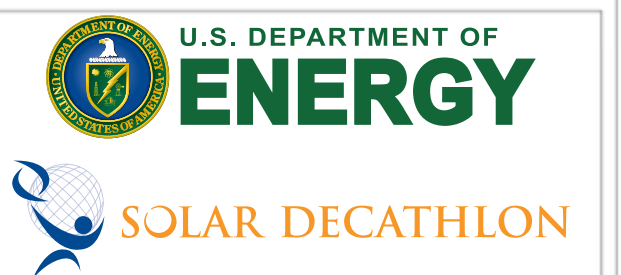
SCALE 1:5
THIRTEEN RODS NEEDED.
MATERIAL TO BE ALUMINUM ALLOY 6061 OR EQUIVALENT.
CLEAR ANODIZED FINISH.
FASTEN TO STRINGERS WITH COUNTER SUNK 1/2\"/>

HOLES TO BE DRILLED
3/16\"/>



NOTES:

SCALE 1:5
THIRTEEN TREADS NEEDED.
MATERIAL TO BE FSC DOUGLAS FIR SELECT.
SANSIN UV CLEAR FINISH.
FASTEN TO STRINGERS WITH 3/8\"/>



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

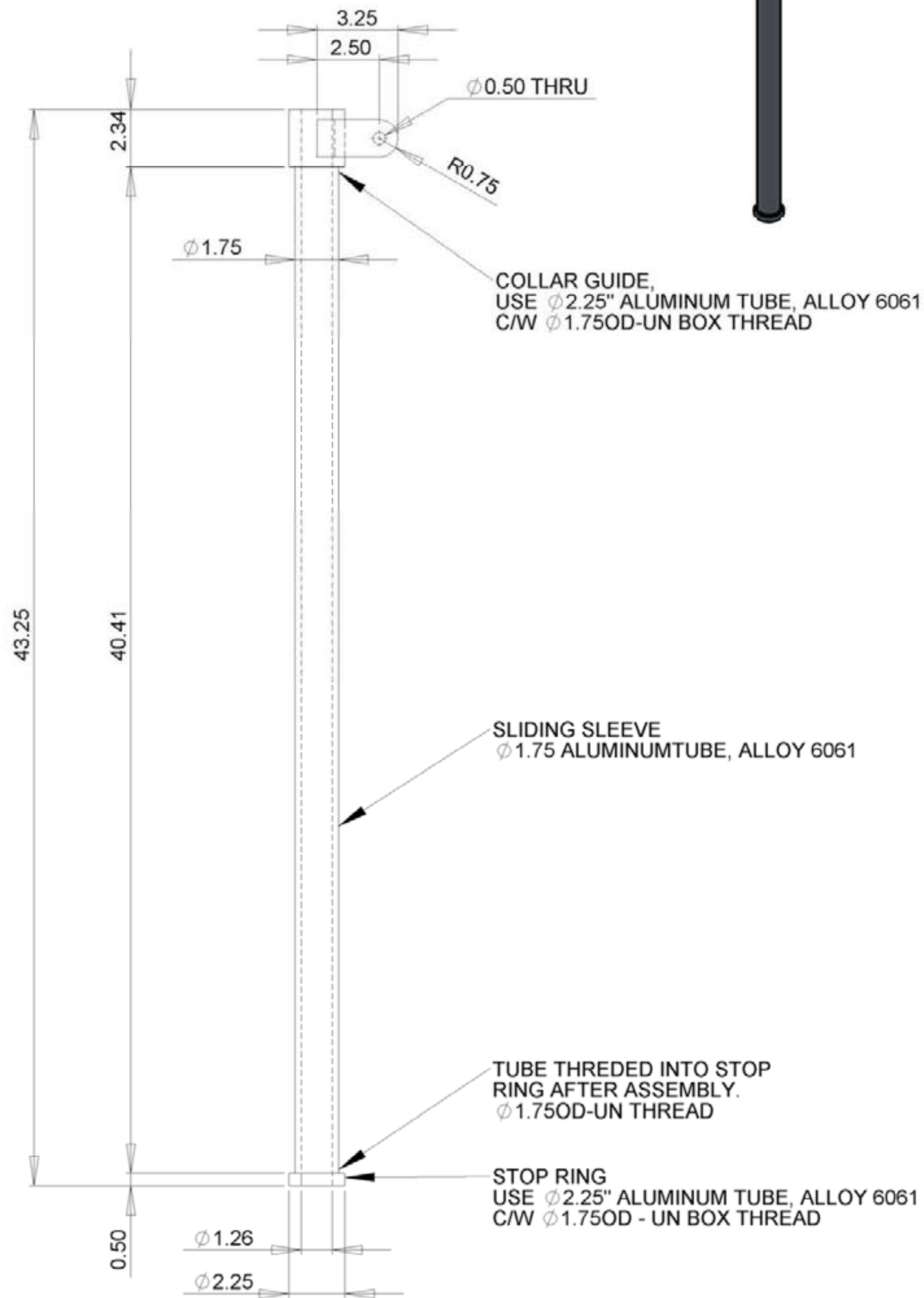
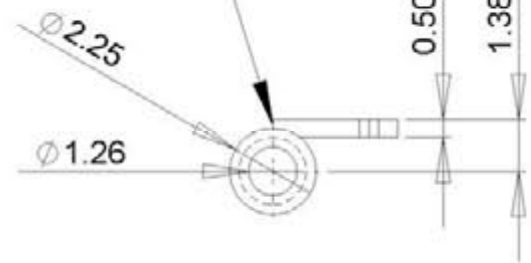
KEY:

STAMP:

DRAWN:	CHECKED:
RAMIES	THARMESYNN
DATE:	06-02-2009
SCALE:	AS SHOWN
SHEET TITLE:	STAIR COMPONENTS
SHEET #:	Z-130

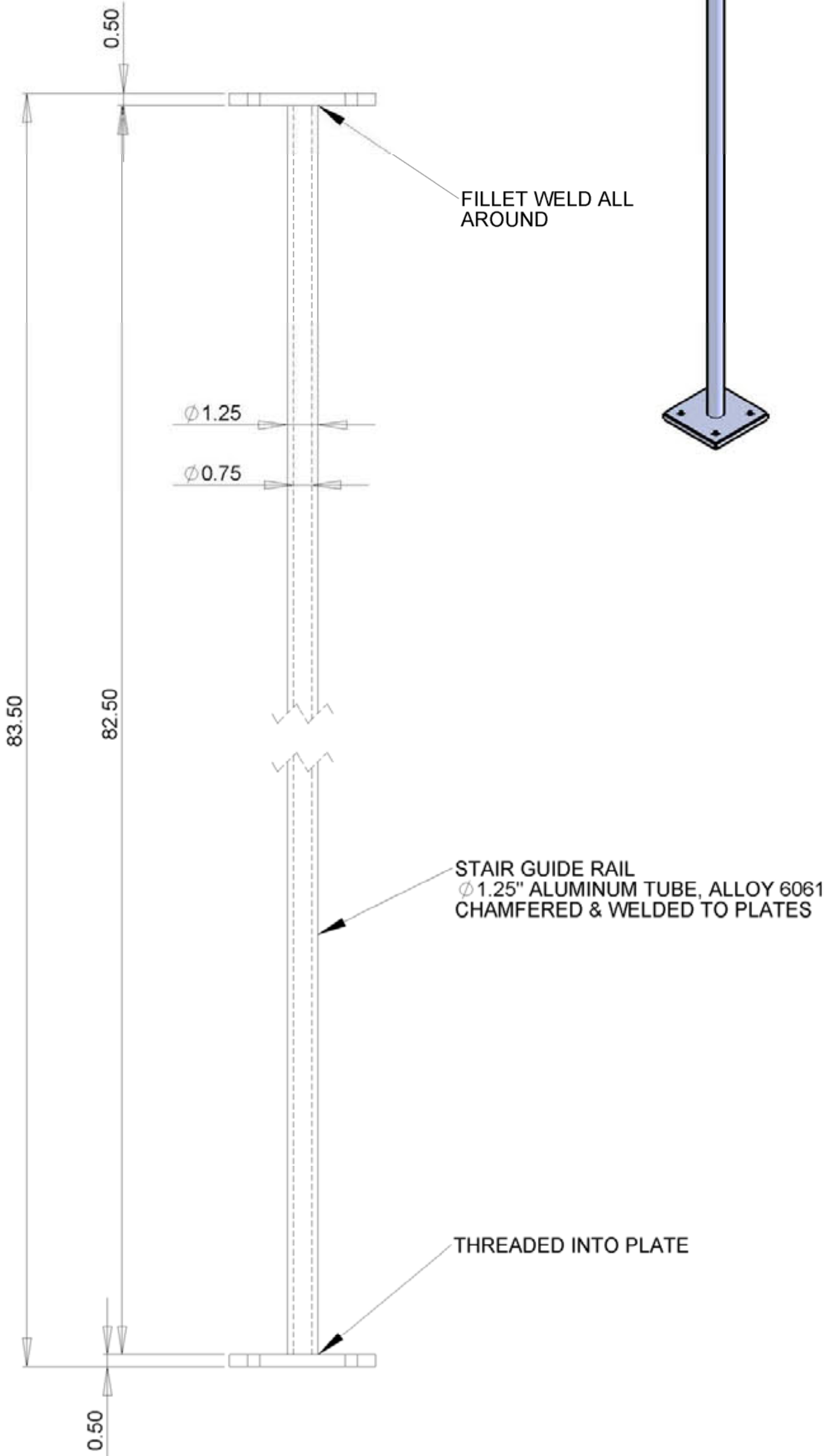
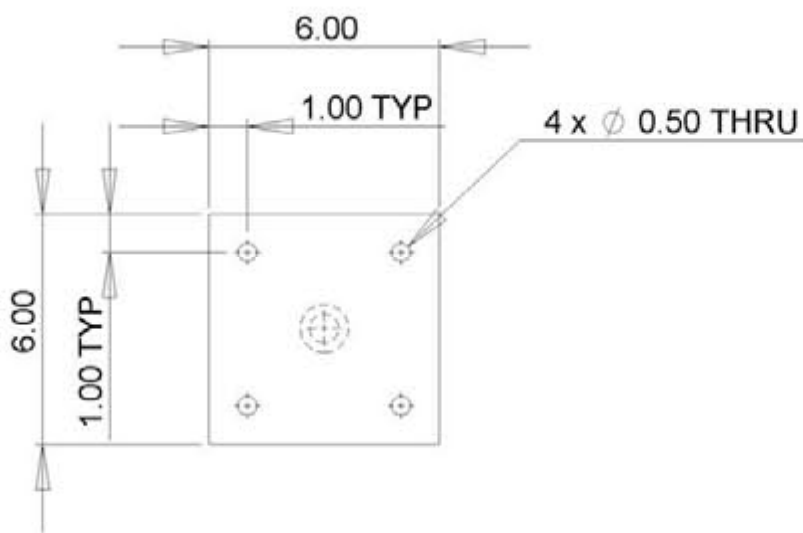
Alberta Solar Decathlon Team

ALUMINUM ALOOY 6061
PLATE CHAMFERED & WELDED



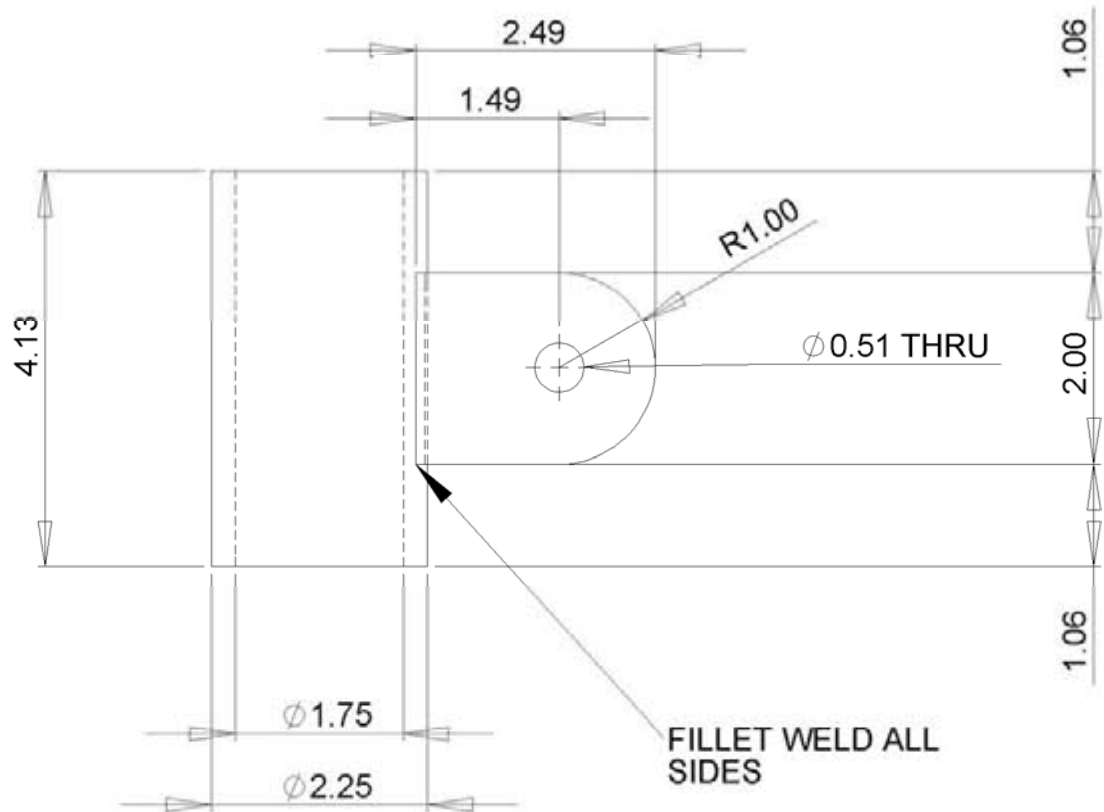
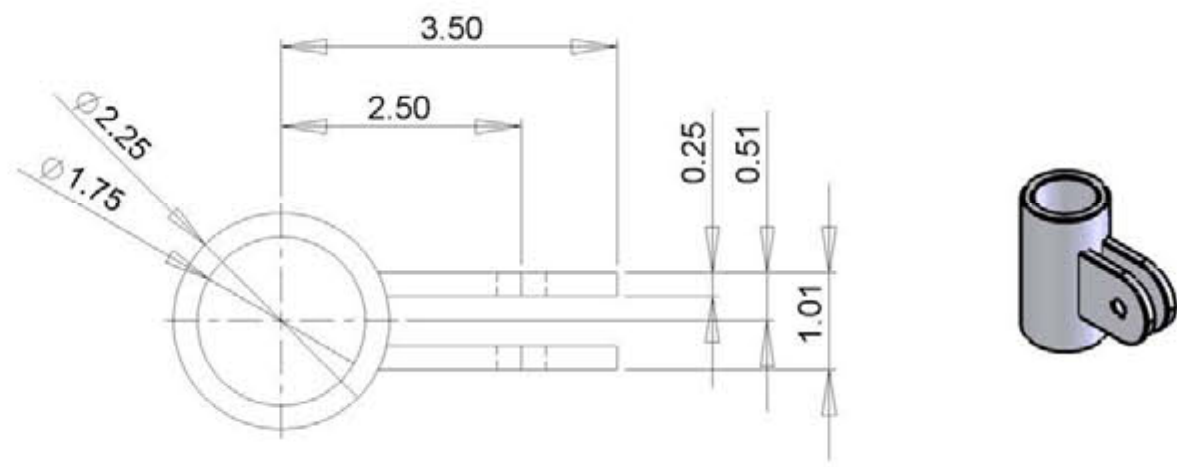
NOTES:

SCALE 1:5
TWO GUIDE SLEEVES NEEDED.
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.
MIDDLE 1.75\"/>



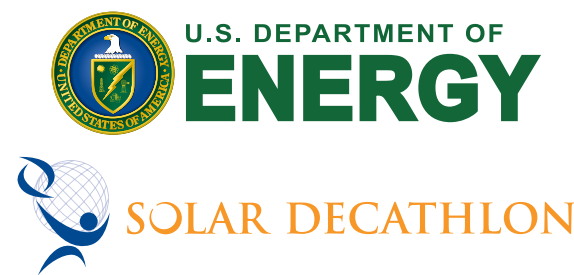
NOTES:

SCALE 1:5
TWO GUIDE RAILS NEEDED.
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.
1.25\"/>



NOTES:

SCALE 1:2
TWO GUIDE COLLARS NEEDED.
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.



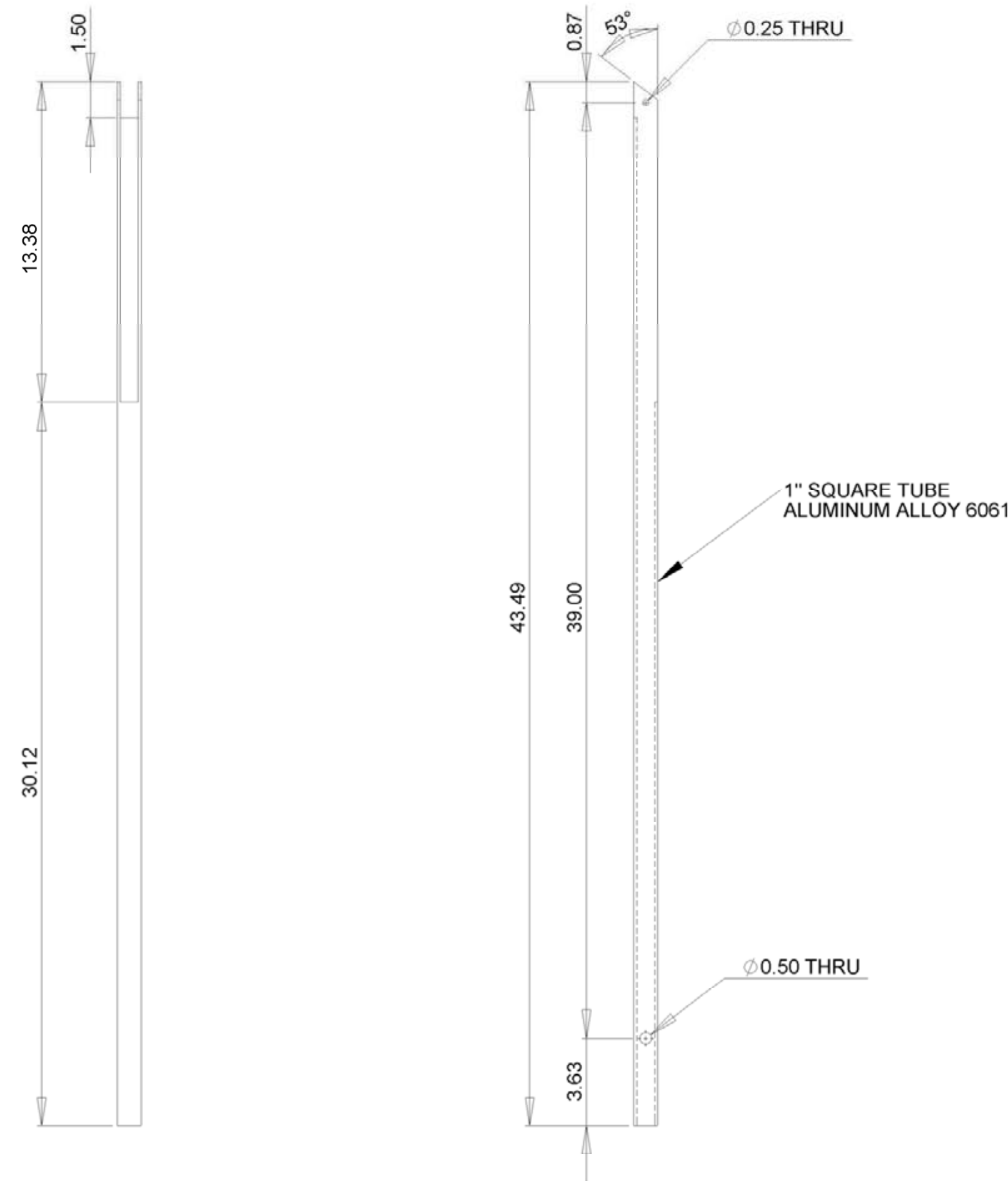
Alberta Solar Decathlon Team

ISSUED DATES	
DATE: 2009/06/02	DESCRIPTION: CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

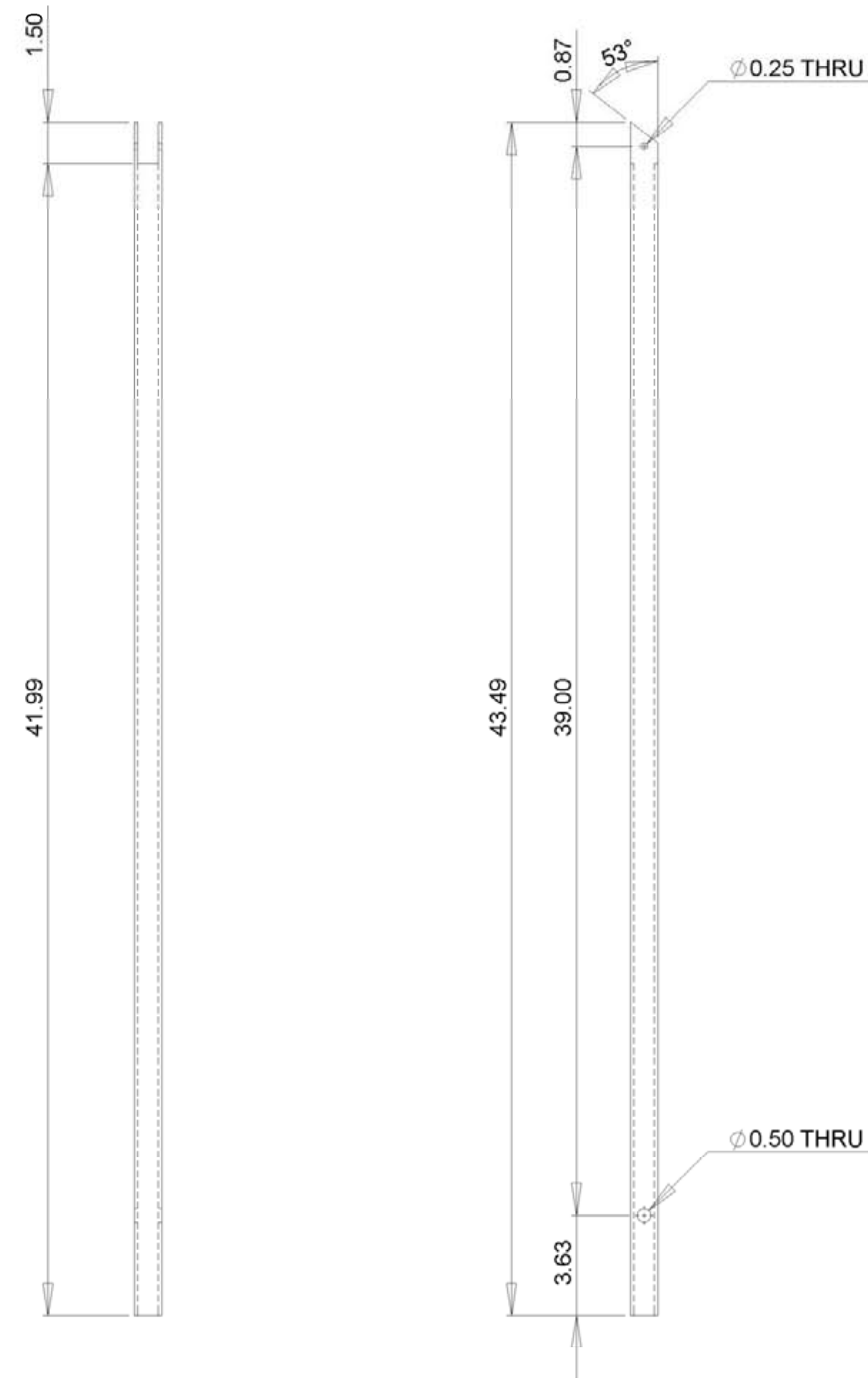
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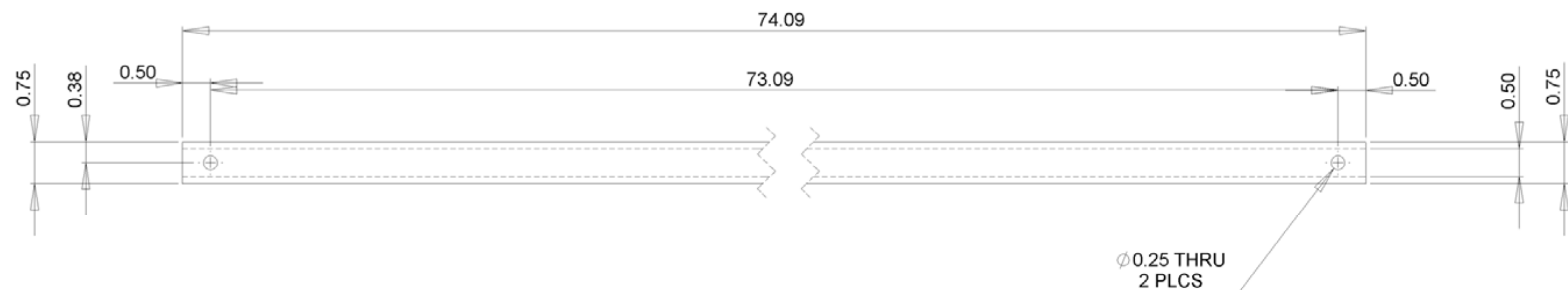
DRAWN: RAMIES	CHECKED: THARMESYNN
DATE: 06-02-2009	
SCALE: AS SHOWN	
SHEET TITLE: STAIR COMPONENTS	
SHEET #: Z-131	



NOTES:
SCALE 1:5
UPPER HANDRAIL SUPPORT
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.



NOTES:
SCALE 1:5
LOWER HANDRAIL SUPPORT
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.



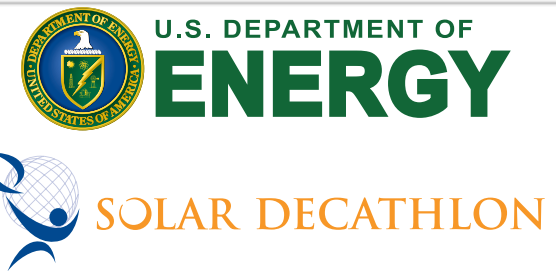
NOTES:
SCALE 1:2
HANDRAIL SUPPORT CROSSBAR
MATERIAL AS SHOWN.
CLEAR ANODIZED FINISH.
SEE LAYOUT SHEET FOR ASSEMBLY NOTES.



ALBERTA COLLEGE OF ART • DESIGN



Alberta Solar Decathlon Team

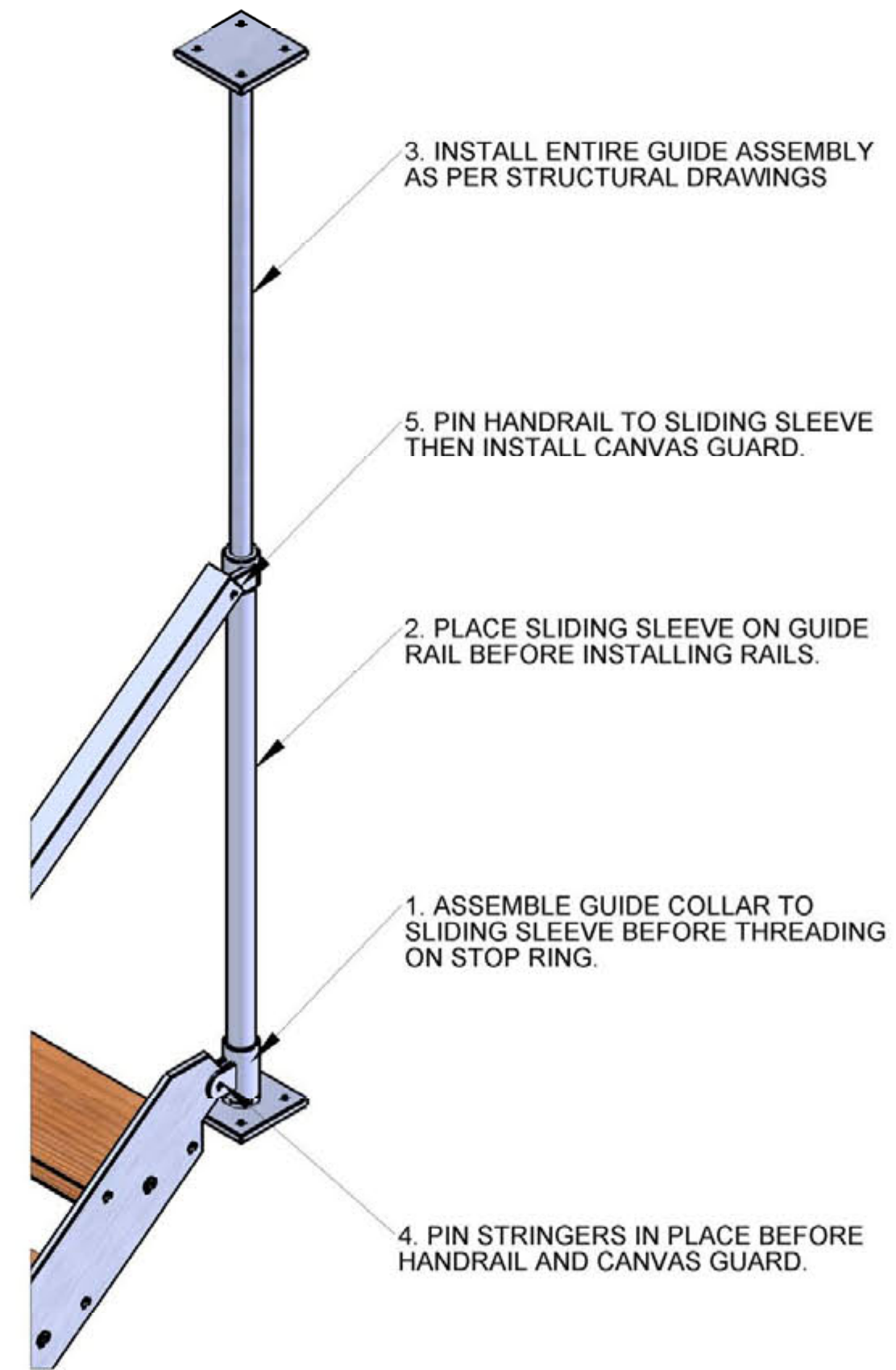
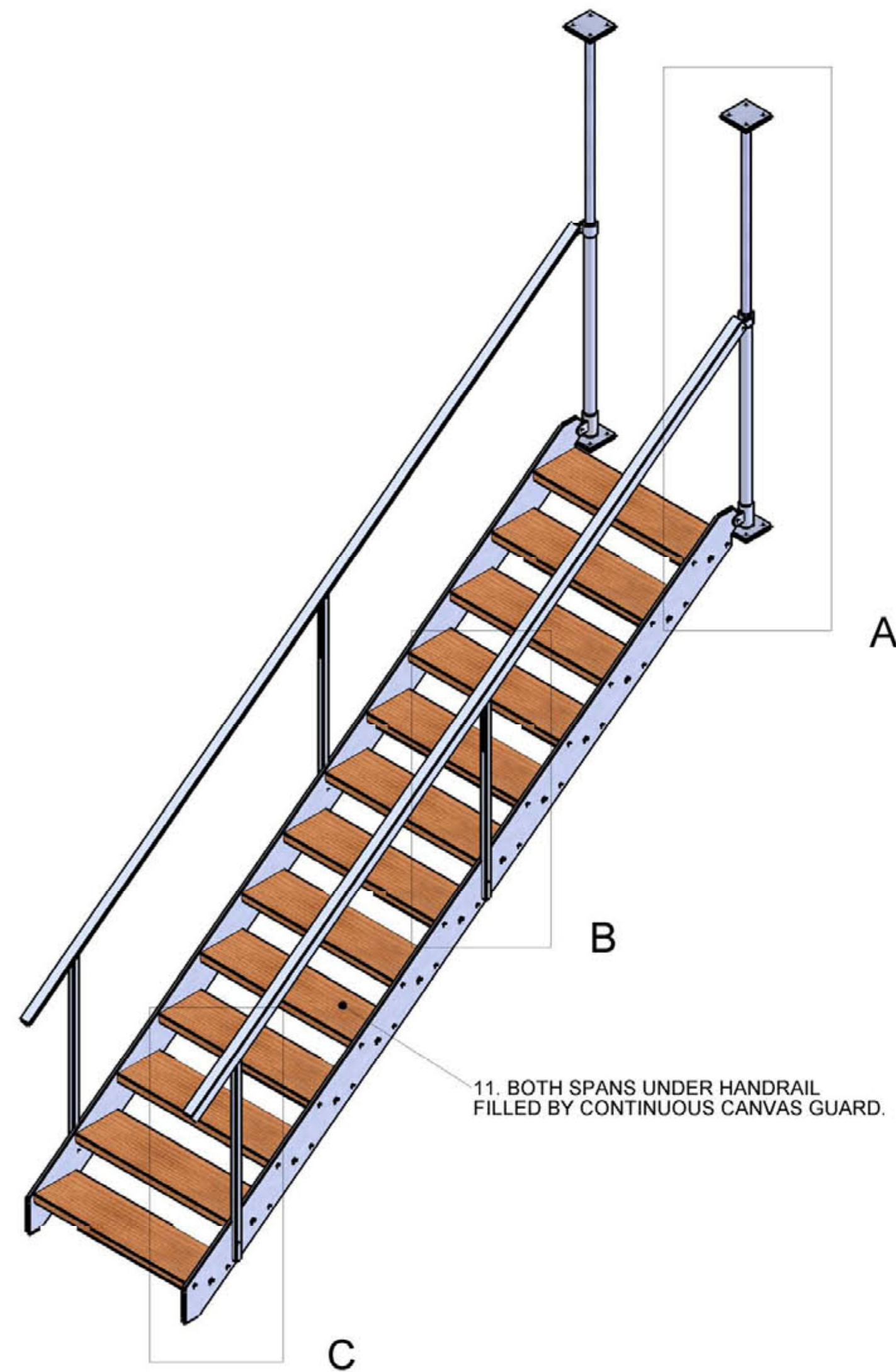


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2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

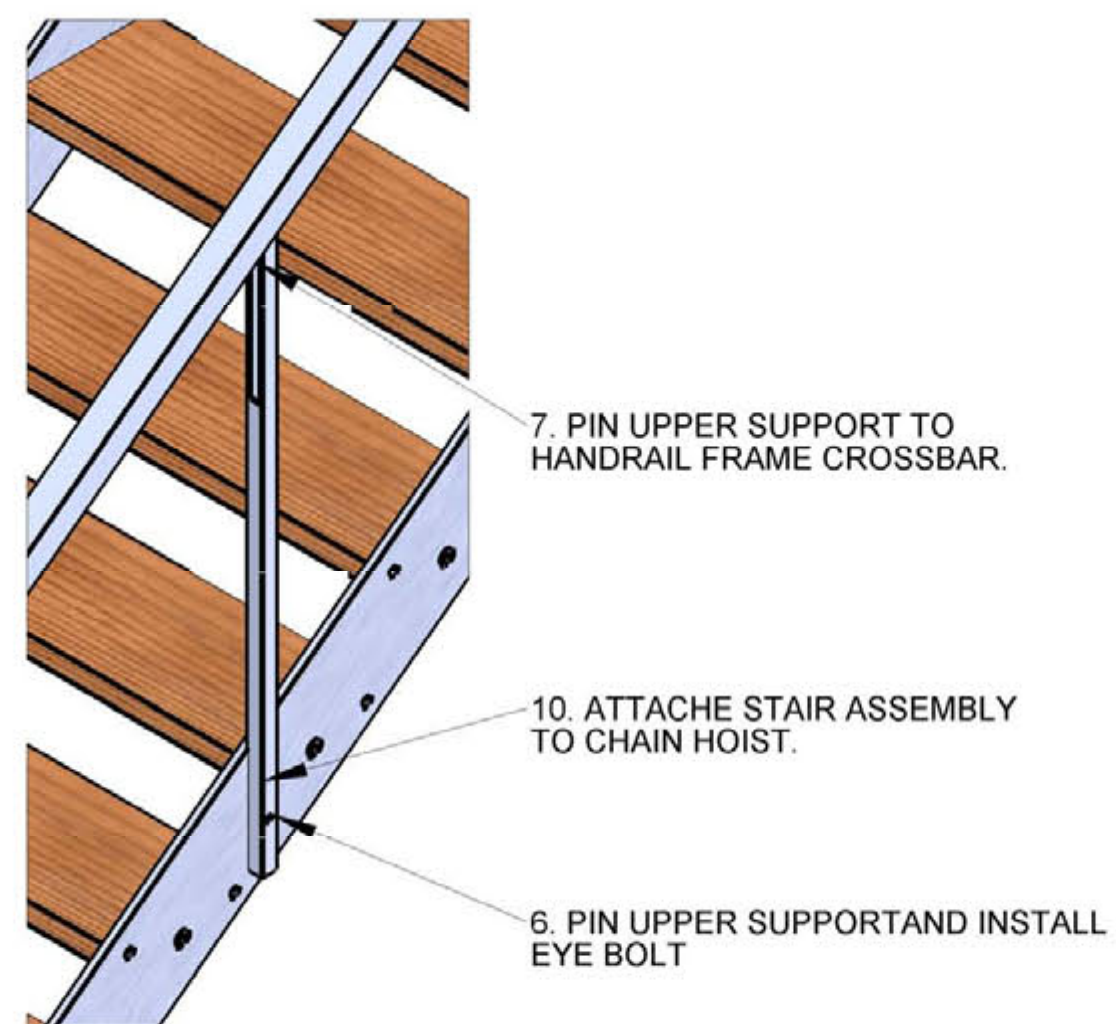
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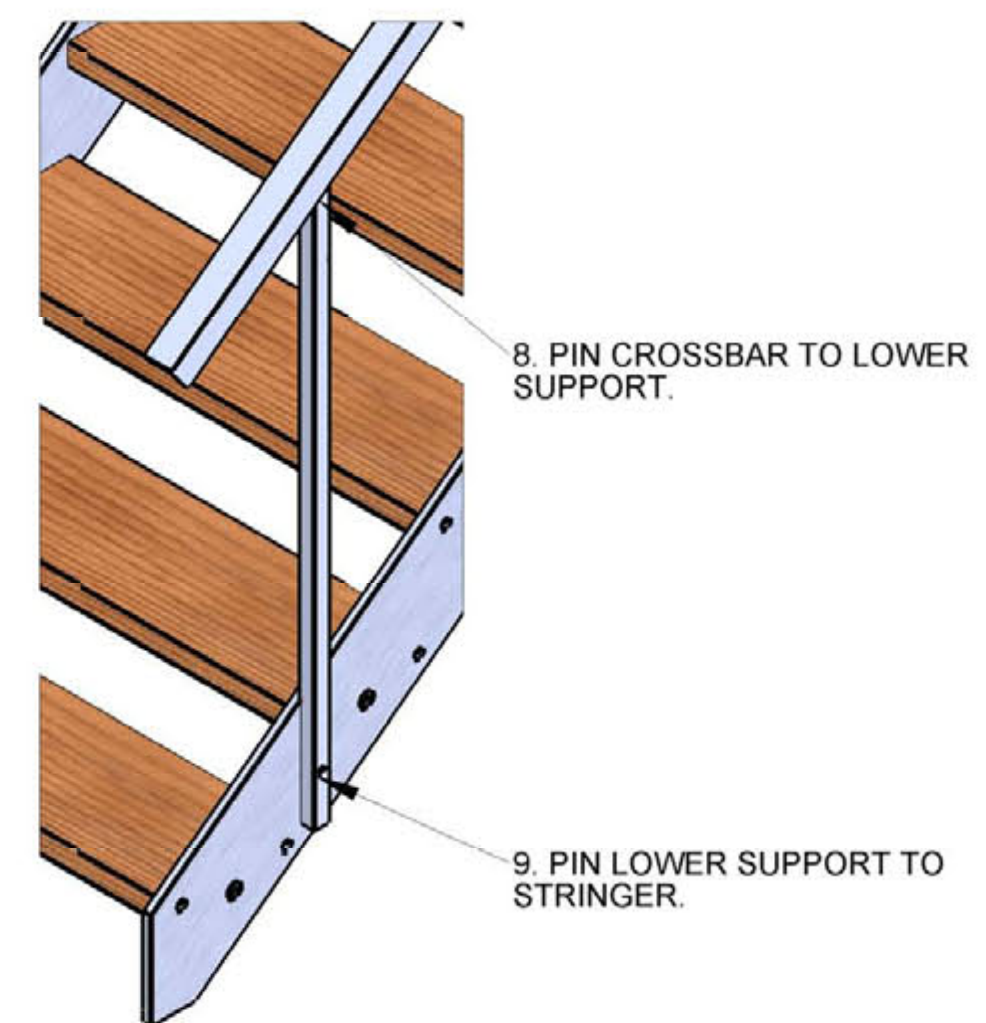
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SCALE:	AS SHOWN
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SHEET #:	Z-132



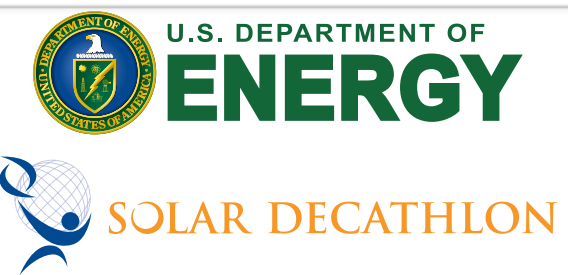
DETAIL A
SCALE 1 : 10



DETAIL B
SCALE 1 : 10



DETAIL C
SCALE 1 : 10



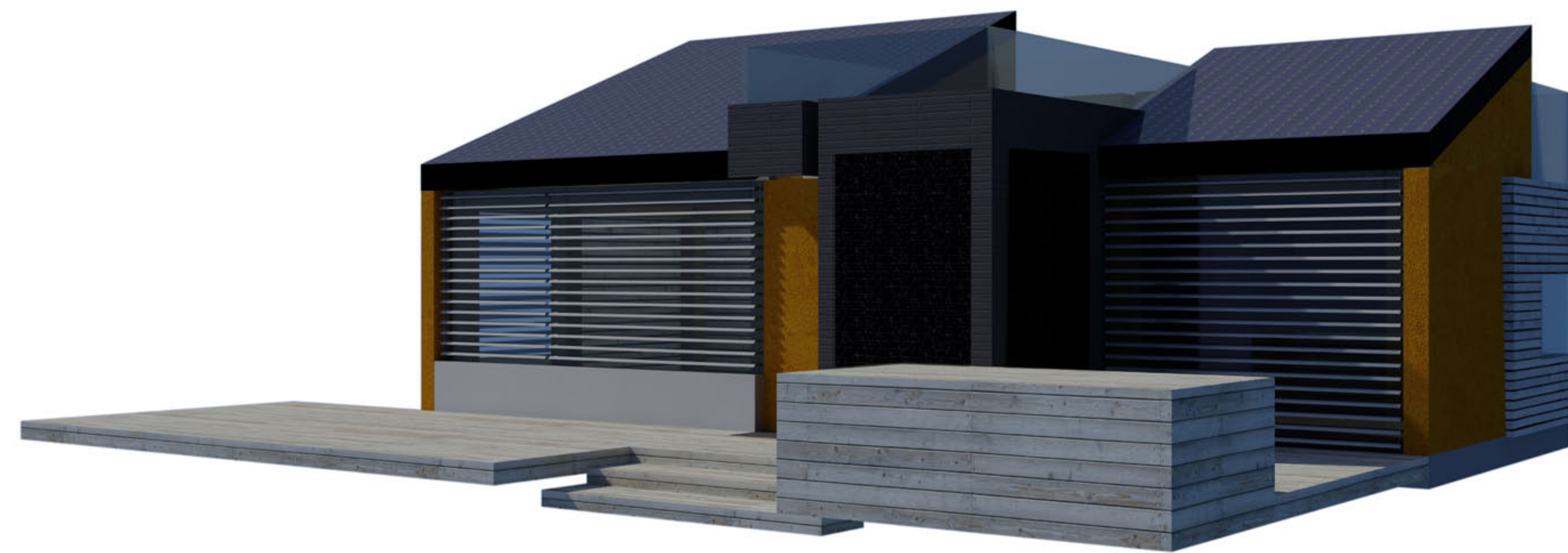
Alberta Solar Decathlon Team

ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION

KEY:

STAMP:

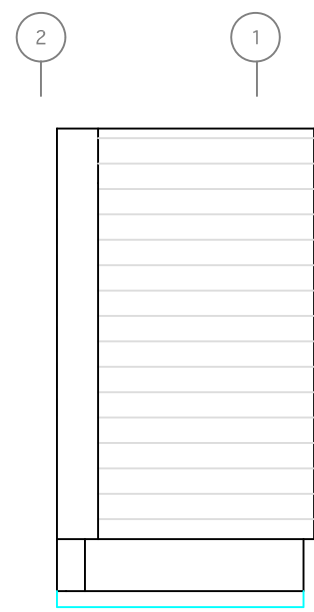
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DATE:	06-02-2009
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SHEET TITLE:	STAIR ASSEMBLY
SHEET #:	Z-133



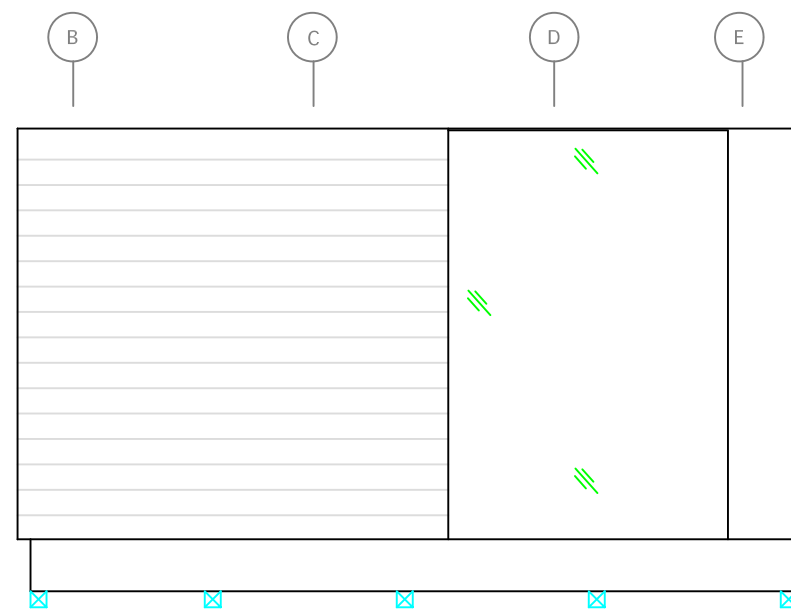
General
Landscape
Structural
Architectural
Interior
Fire Safety
Plumbing
Mechanical
Electrical
Telecommunications
Shop Drawings
Operations



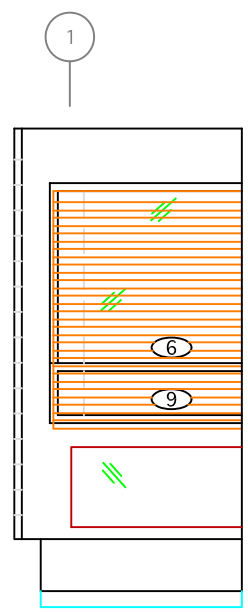
LIVING ROOM MODULE - EAST VIEW



LIVING ROOM MODULE - NORTH VIEW

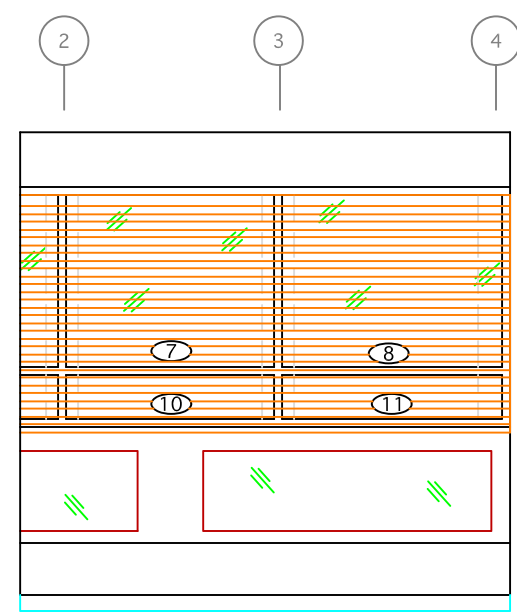


LIVING ROOM MODULE - WEST VIEW

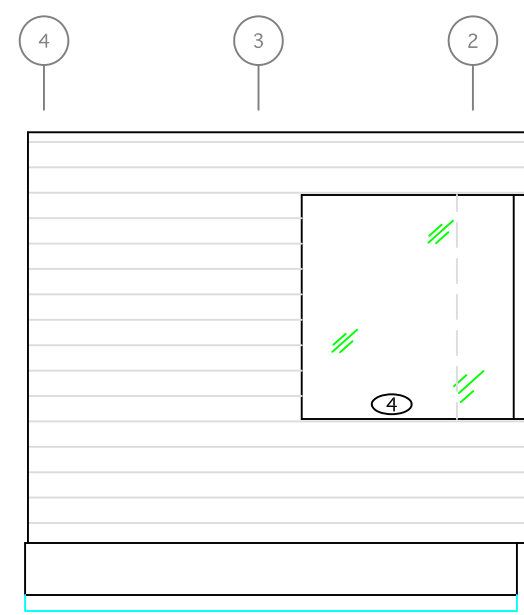


LIVING ROOM MODULE - SOUTH VIEW

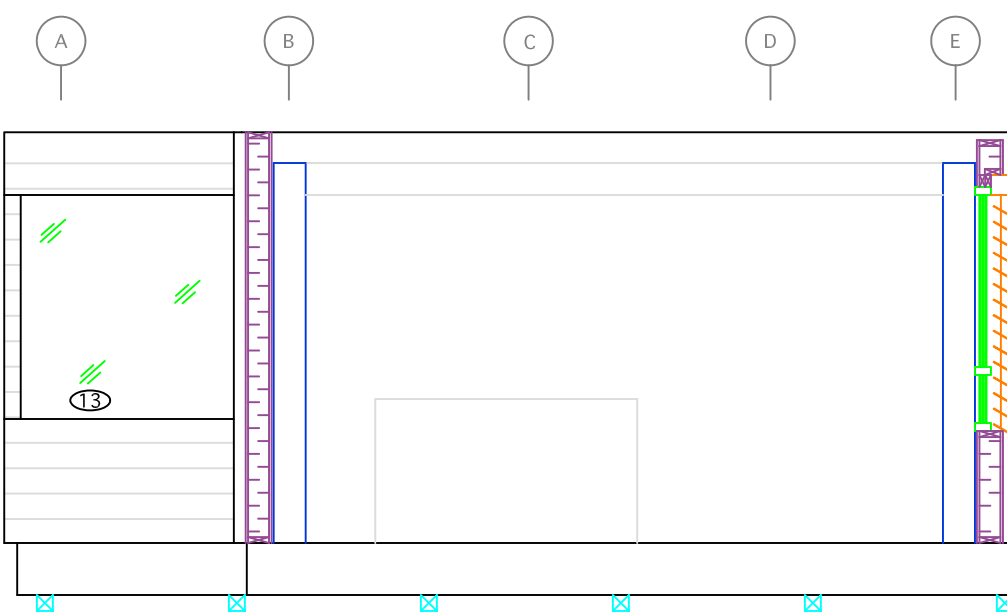
1
O-101
LIVING ROOM MODULE
1/4" = 1' 0"



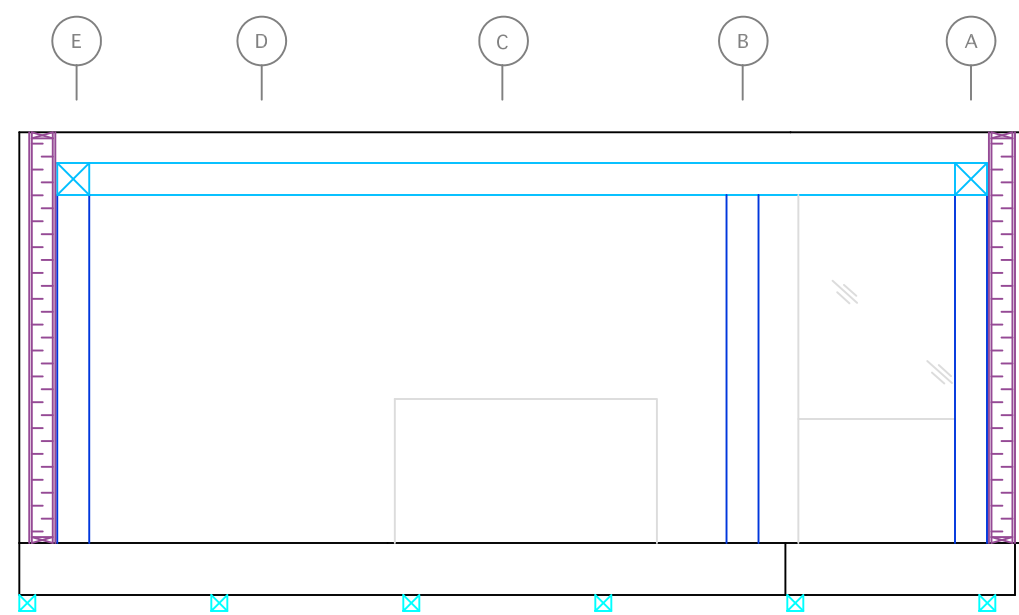
KITCHEN MODULE - SOUTH VIEW



KITCHEN MODULE - NORTH VIEW

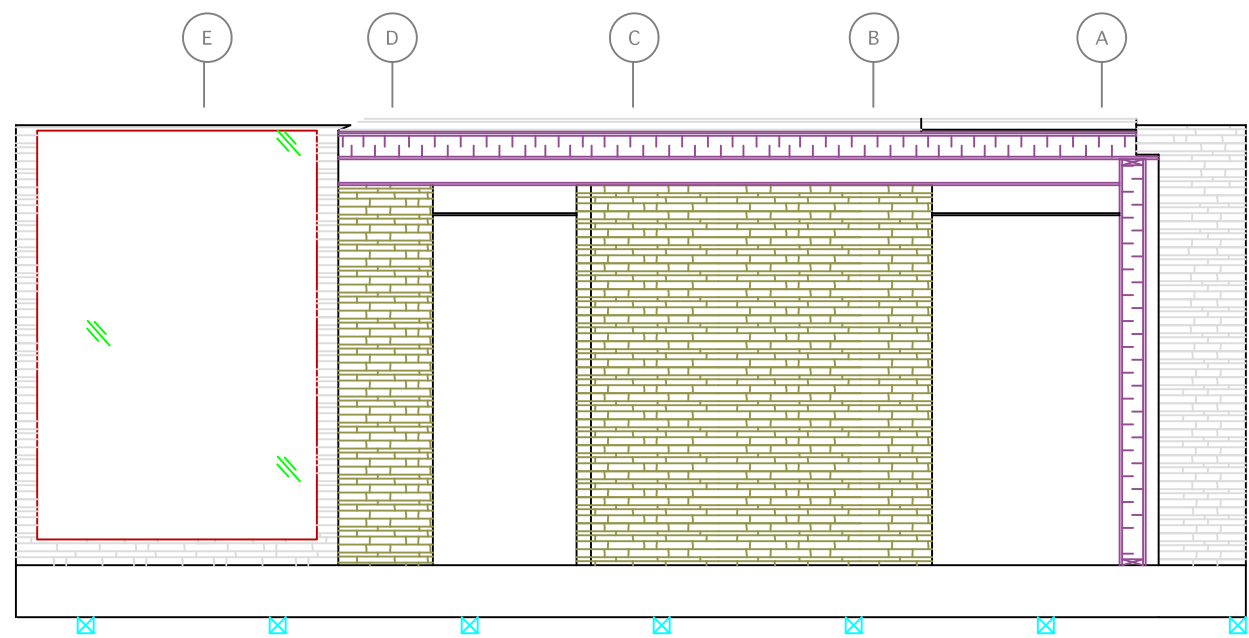


KITCHEN MODULE - WEST VIEW

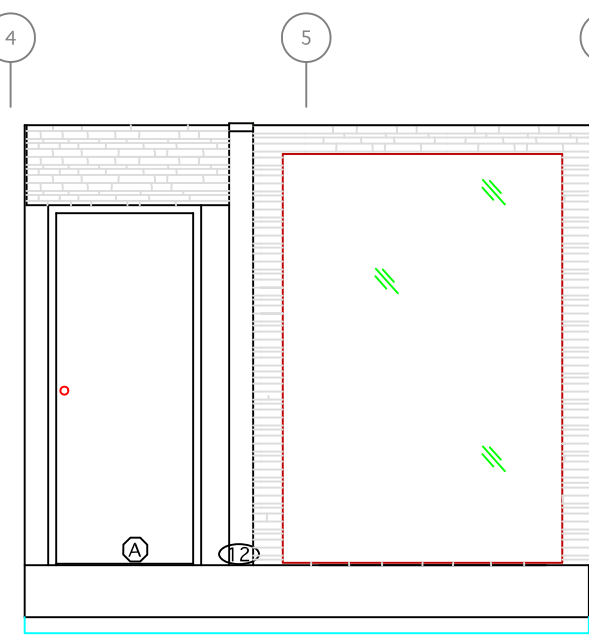


KITCHEN MODULE - EAST VIEW

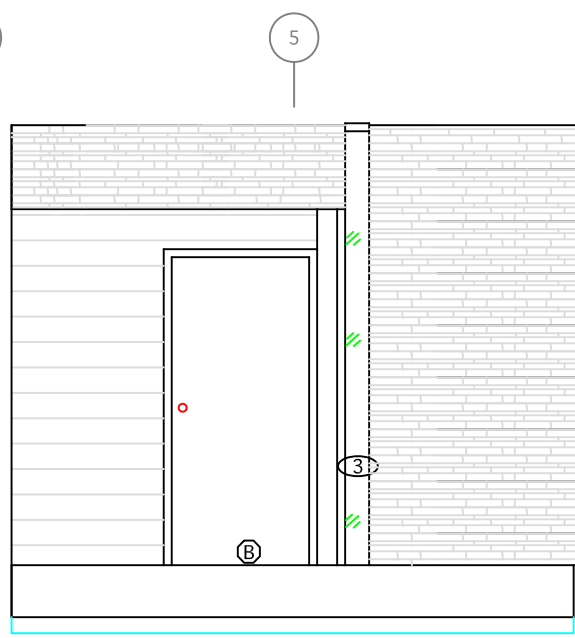
2
O-101
KITCHEN MODULE
1/4" = 1' 0"



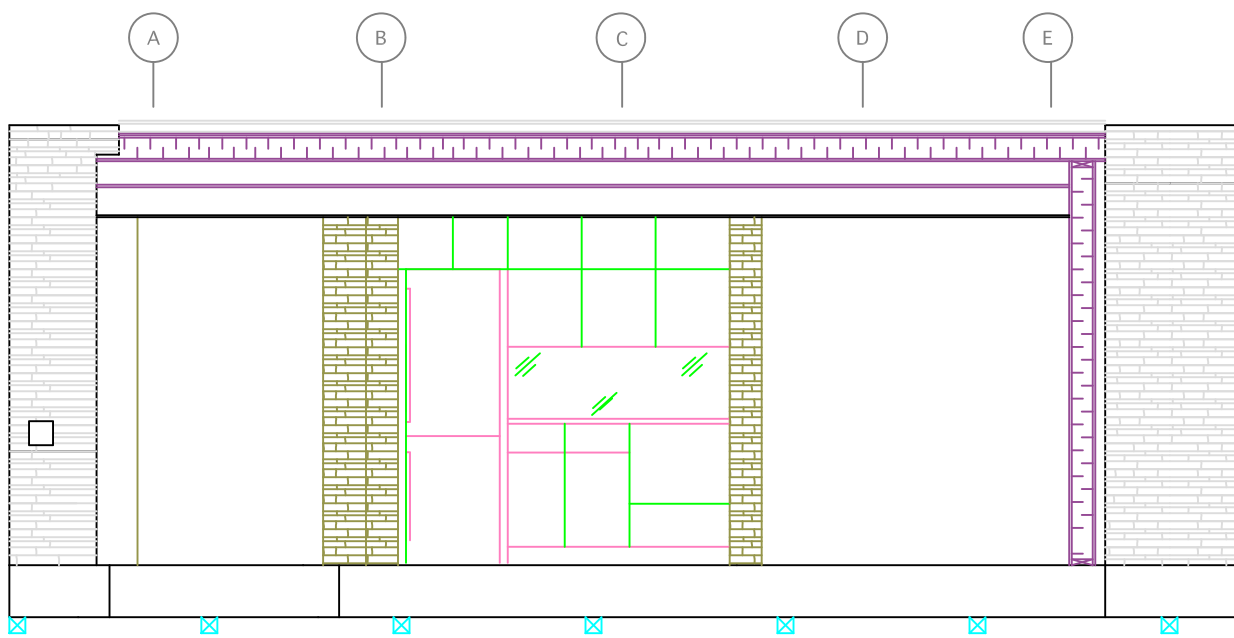
CORE MODULE - EAST VIEW



CORE MODULE - SOUTH VIEW

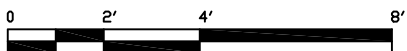


CORE MODULE - NORTH VIEW

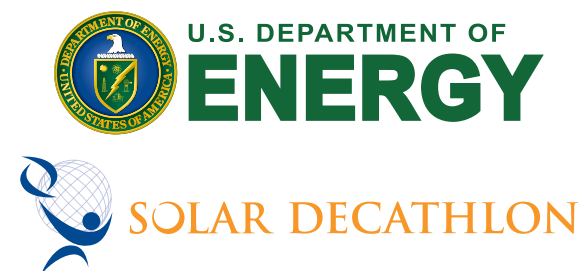


CORE MODULE - WEST VIEW

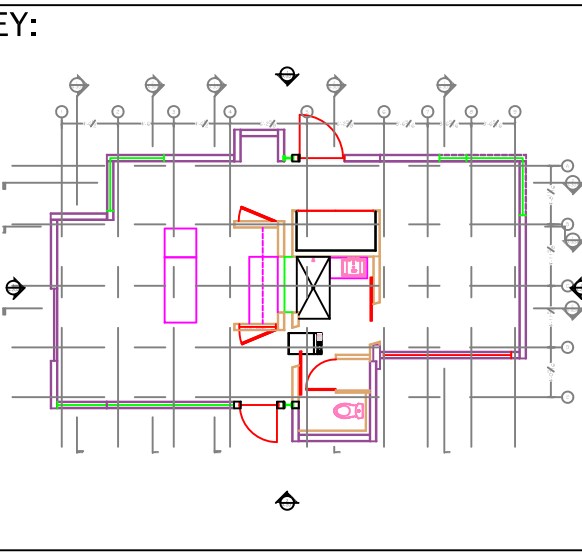
3
O-101
CORE MODULE
1/4" = 1' 0"



Alberta Solar Decathlon Team



ISSUED DATES	
DATE:	DESCRIPTION
2009/06/02	CONSTRUCTION SET
REVISIONS	
DATE:	DESCRIPTION



STAMP:

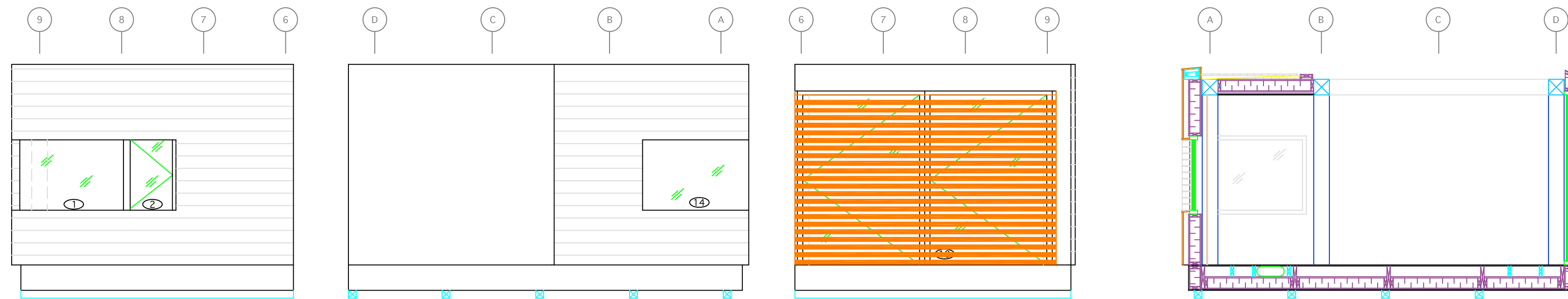
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CHECKED: TH

DATE: 2009/05/30

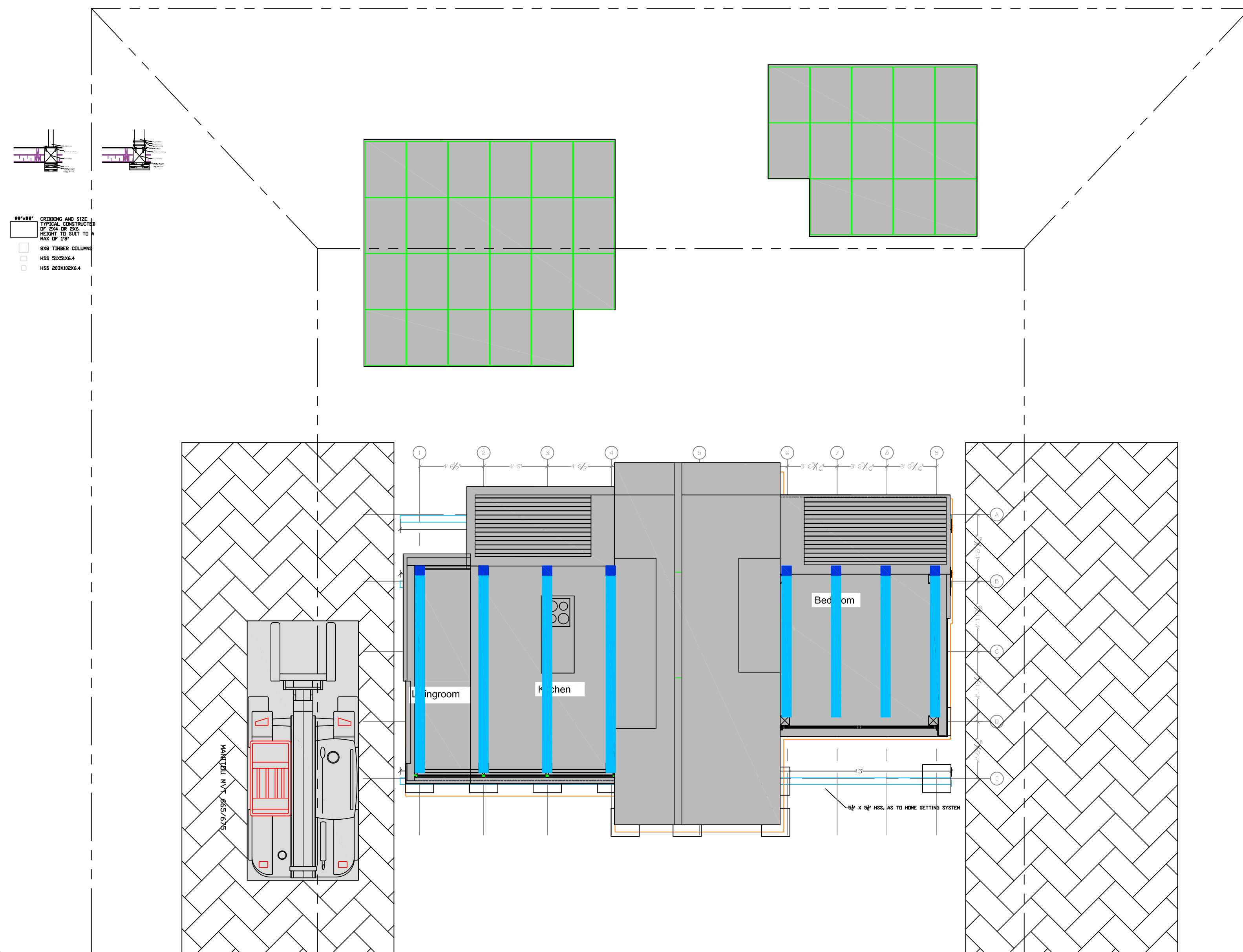
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SHEET TITLE: MODULE ELEVATIONS

SHEET #: O-101



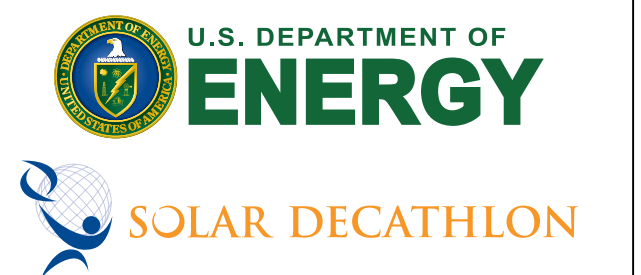
1
O-102
BEDROOM MODULE
1/4" = 1' 0"



2
O-102
SITE ASSEMBLY
3/16" = 1' 0"

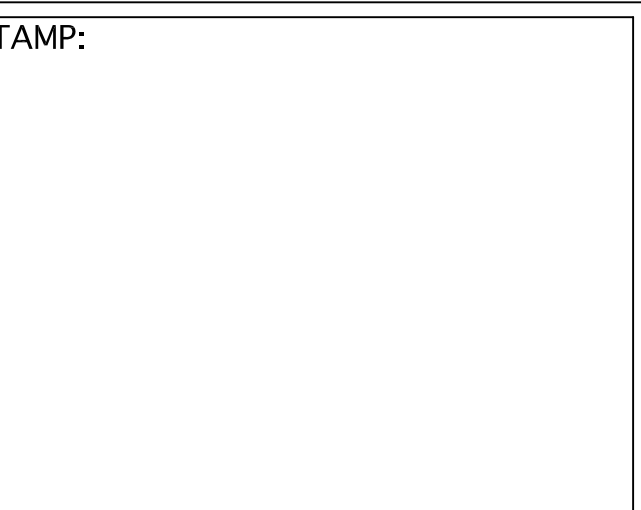
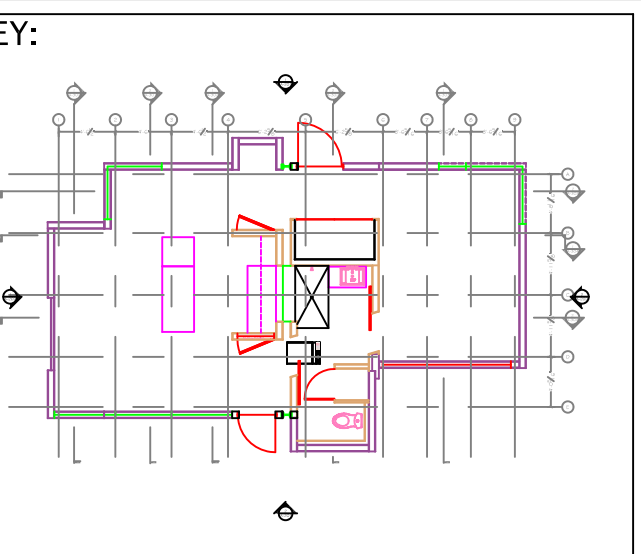


Alberta Solar Decathlon Team



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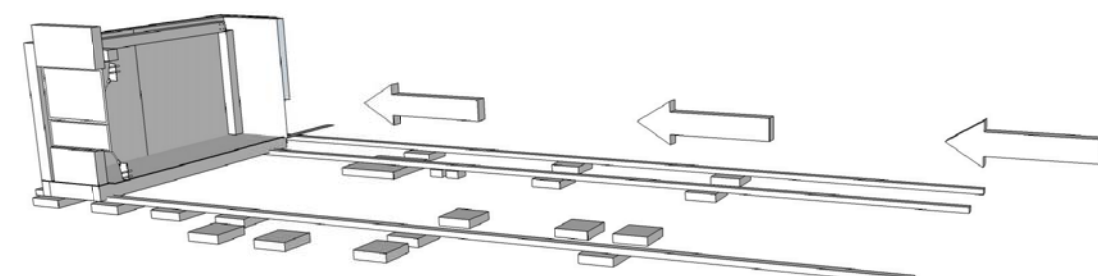
DRAWN: KM	CHECKED: TH
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DATE: 2009/05/30

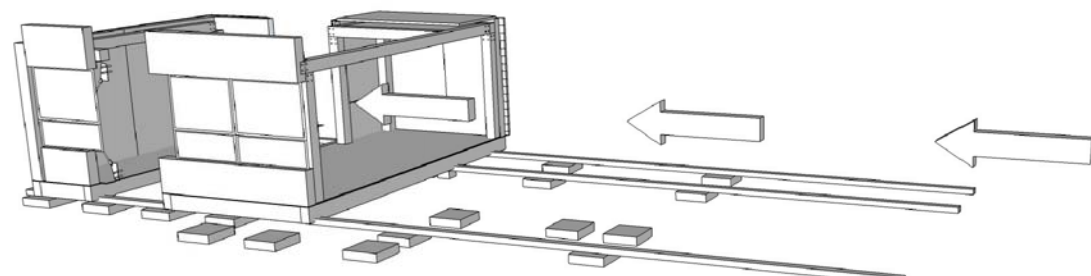
SCALE: VARIOUS

SHEET TITLE: MODULE
ELEVATIONS & SITE

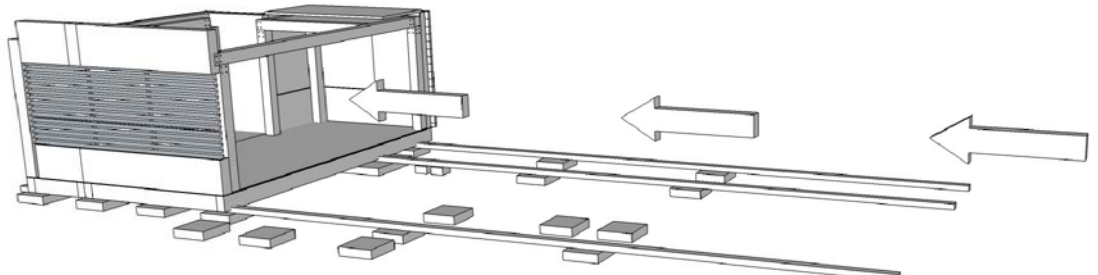
SHEET #: O-102



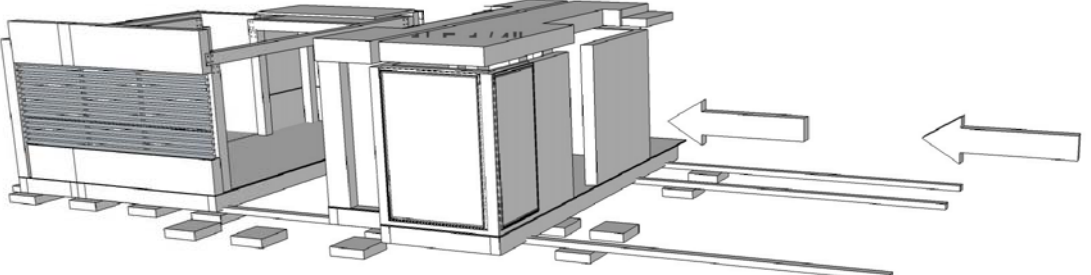
1 LIVING ROOM NOOK
O-103/ASSEMBLY



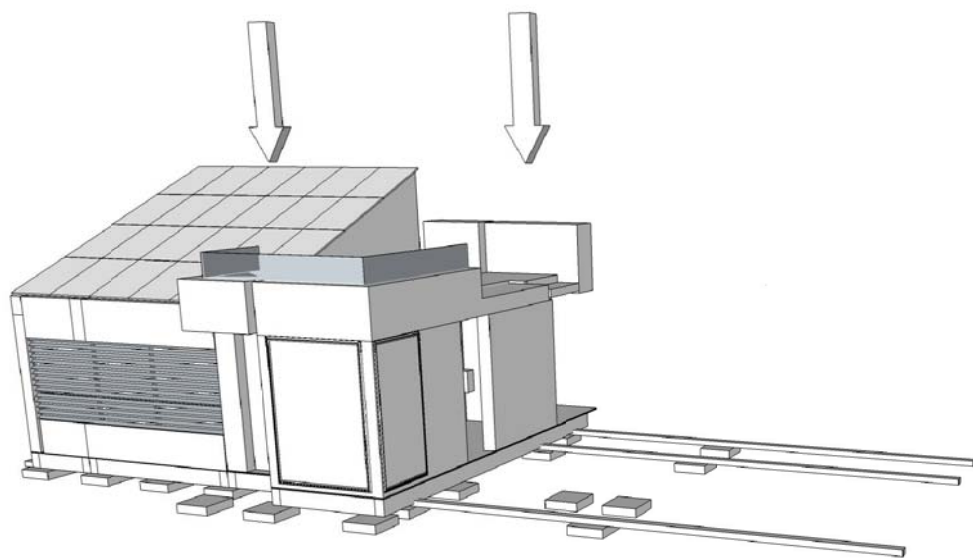
2 LIVING ROOM
O-103/ASSEMBLY



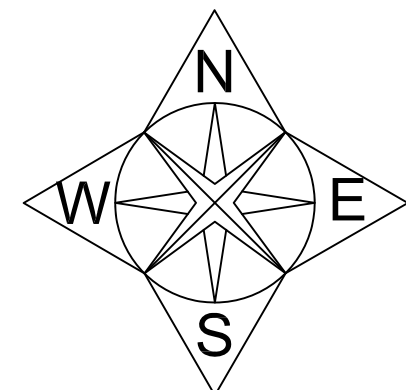
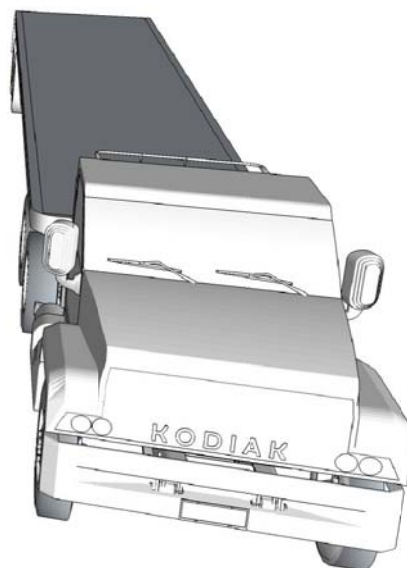
3 LIVING ROOM
O-103/CONNECTION



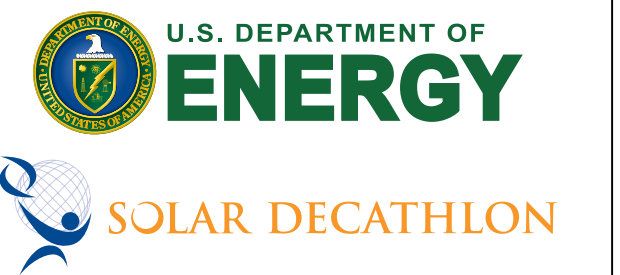
4 LIVING ROOM CORE
O-103/CONNECTION



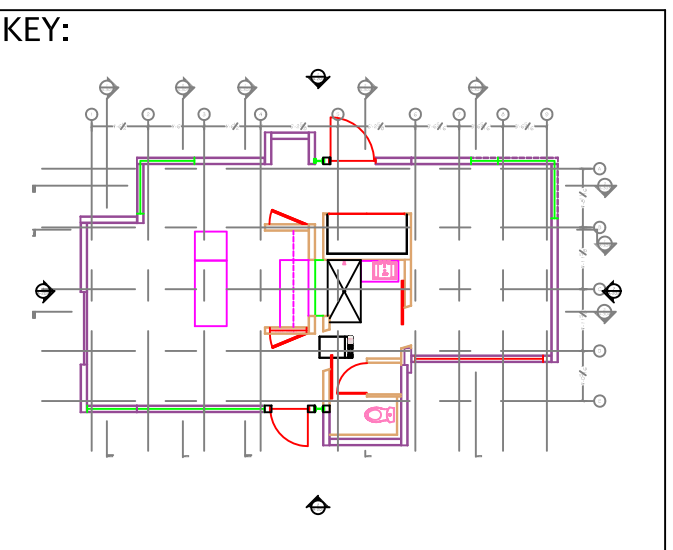
5 LIVING ROOM CORE ROOF
O-103/ASSEMBLY



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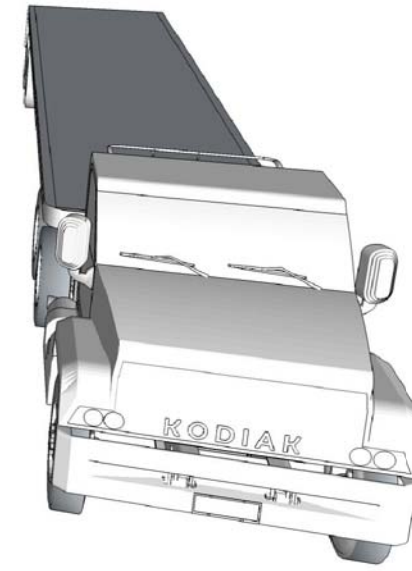
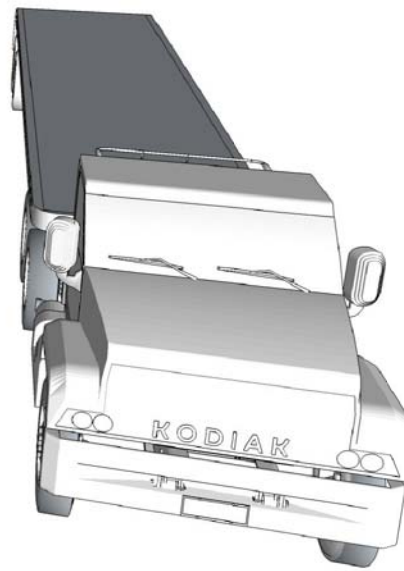
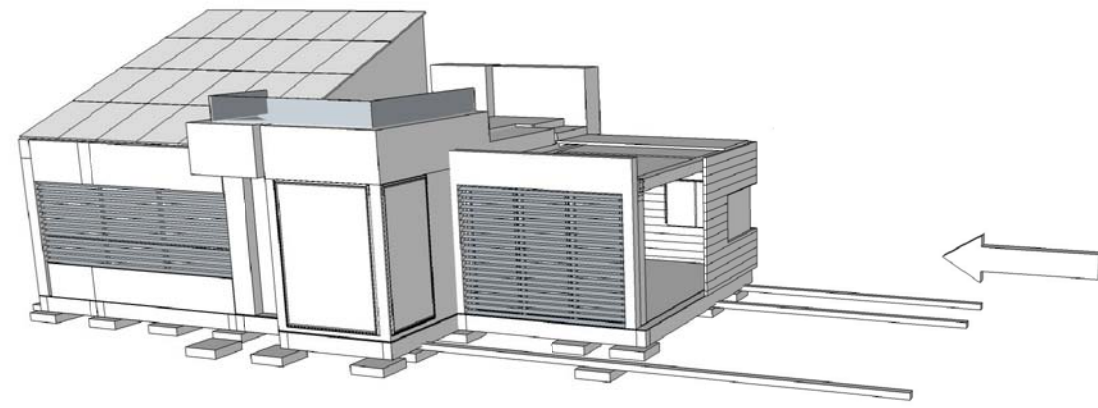
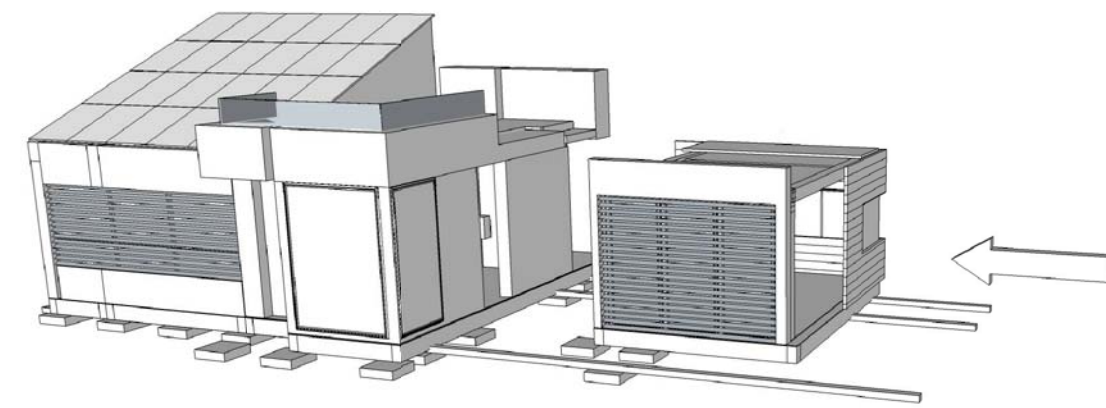
DRAWN: KM CHECKED: TH

DATE: 2009/05/30

SCALE: N.T.S

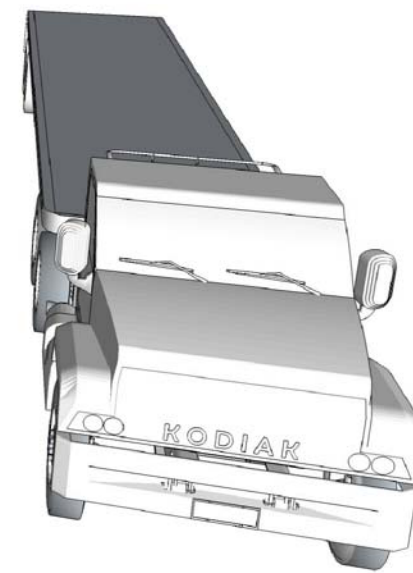
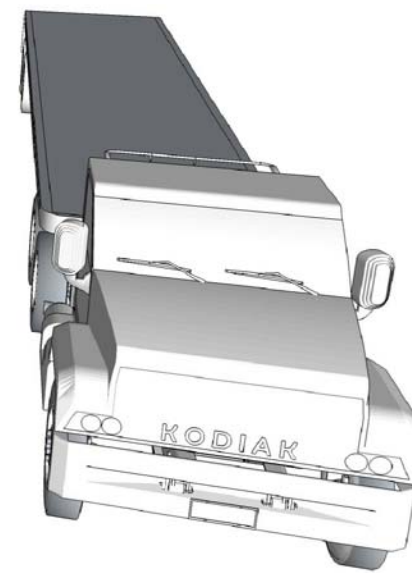
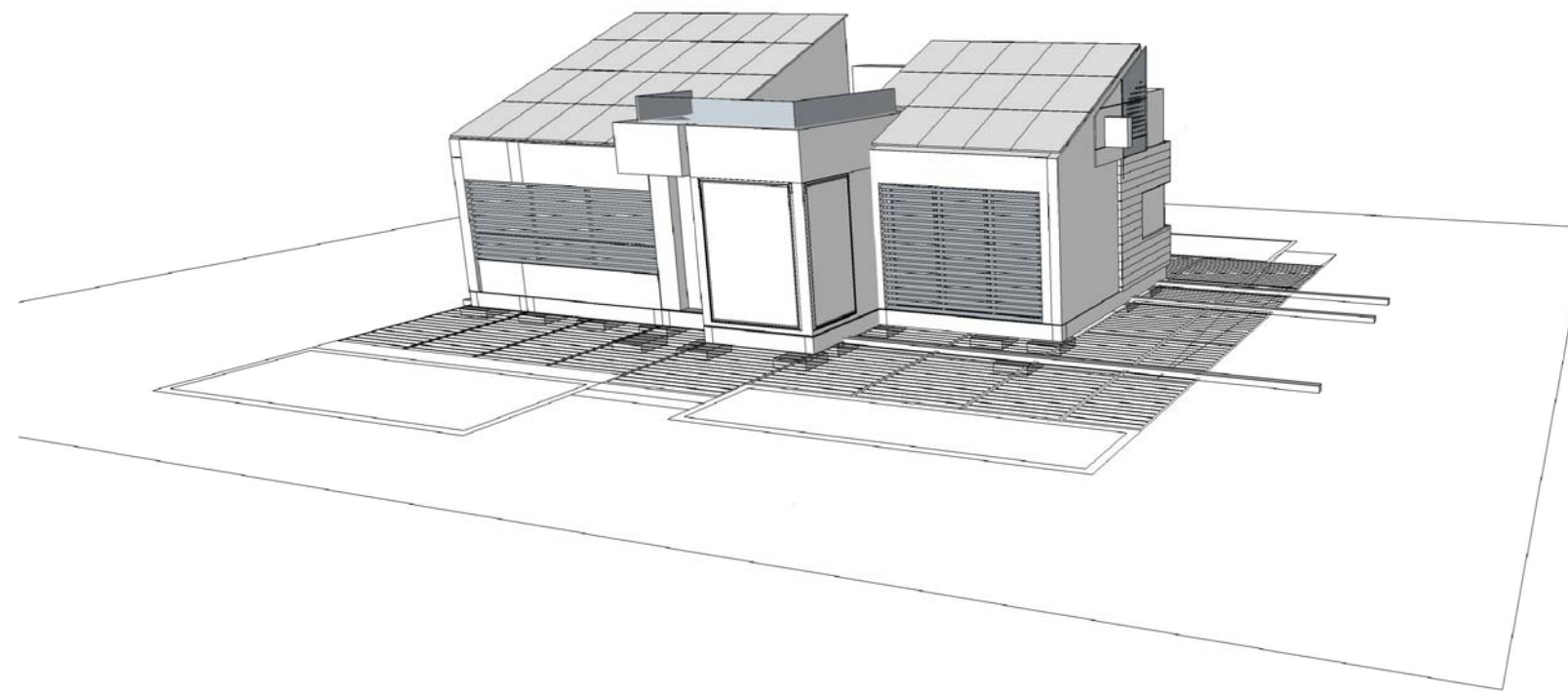
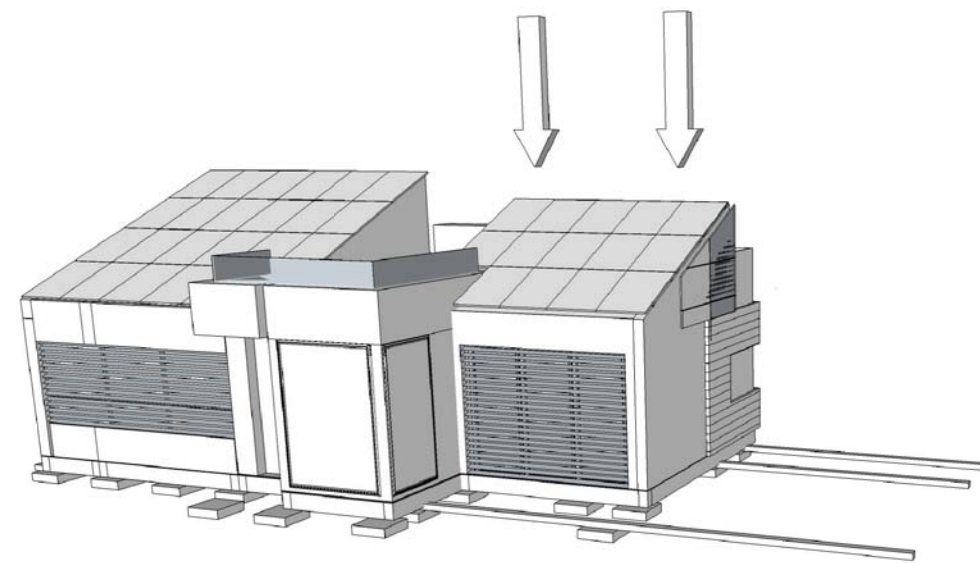
SHEET TITLE: MODULE ASSEMBLY

SHEET #: O-103



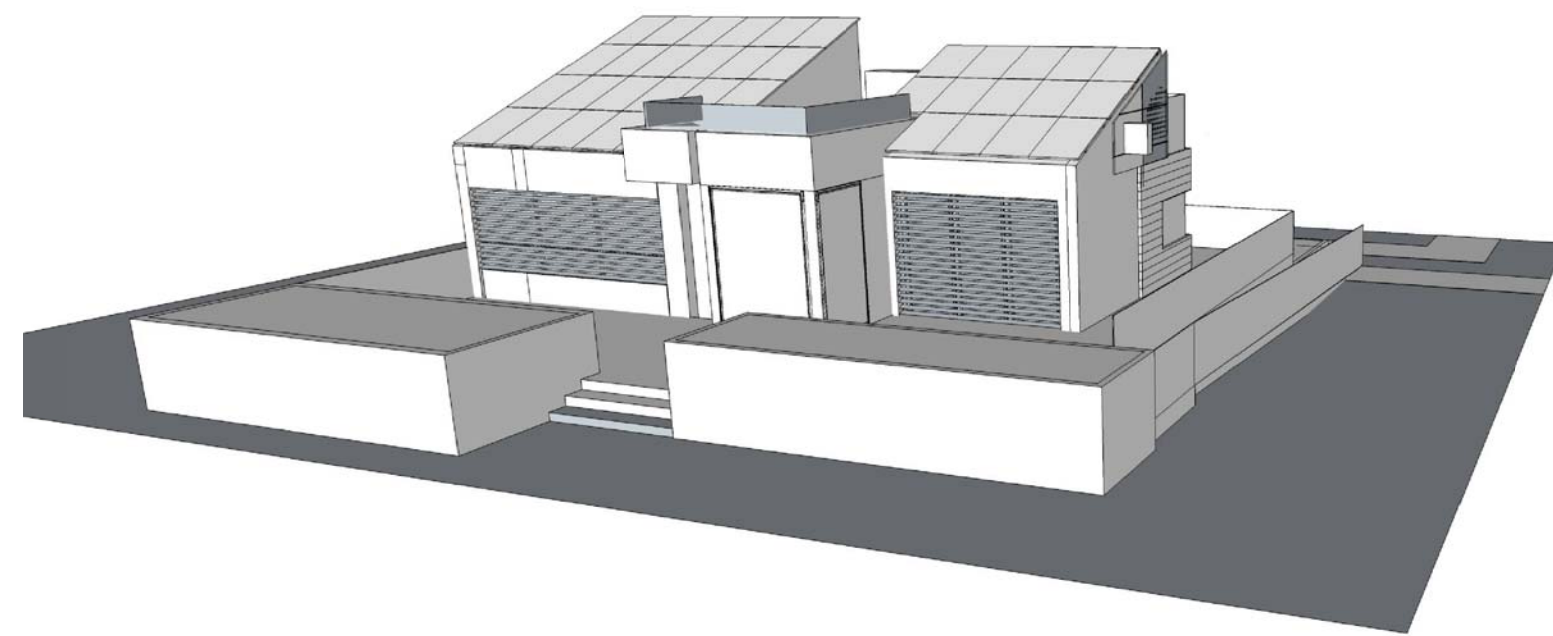
1 BEDROOM MODULE
O-104/ASSEMBLY

2 BEDROOM MODULE
O-104/CONNECTION

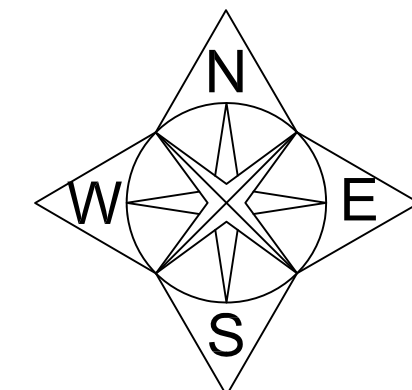


3 BEDROOM ROOF
O-104/ASSEMBLY

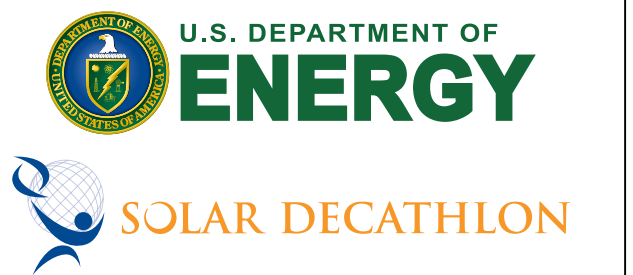
4 DECK STRUCTURE
O-104/TRANSPORT BRACING LAYOUT



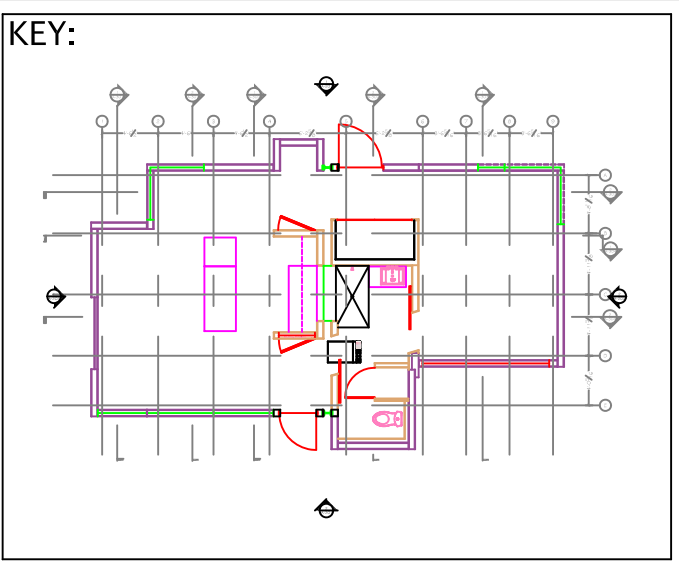
5 FINAL LANDSCAPING
O-104/DECK SURFACE LAYOUT



Alberta Solar Decathlon Team



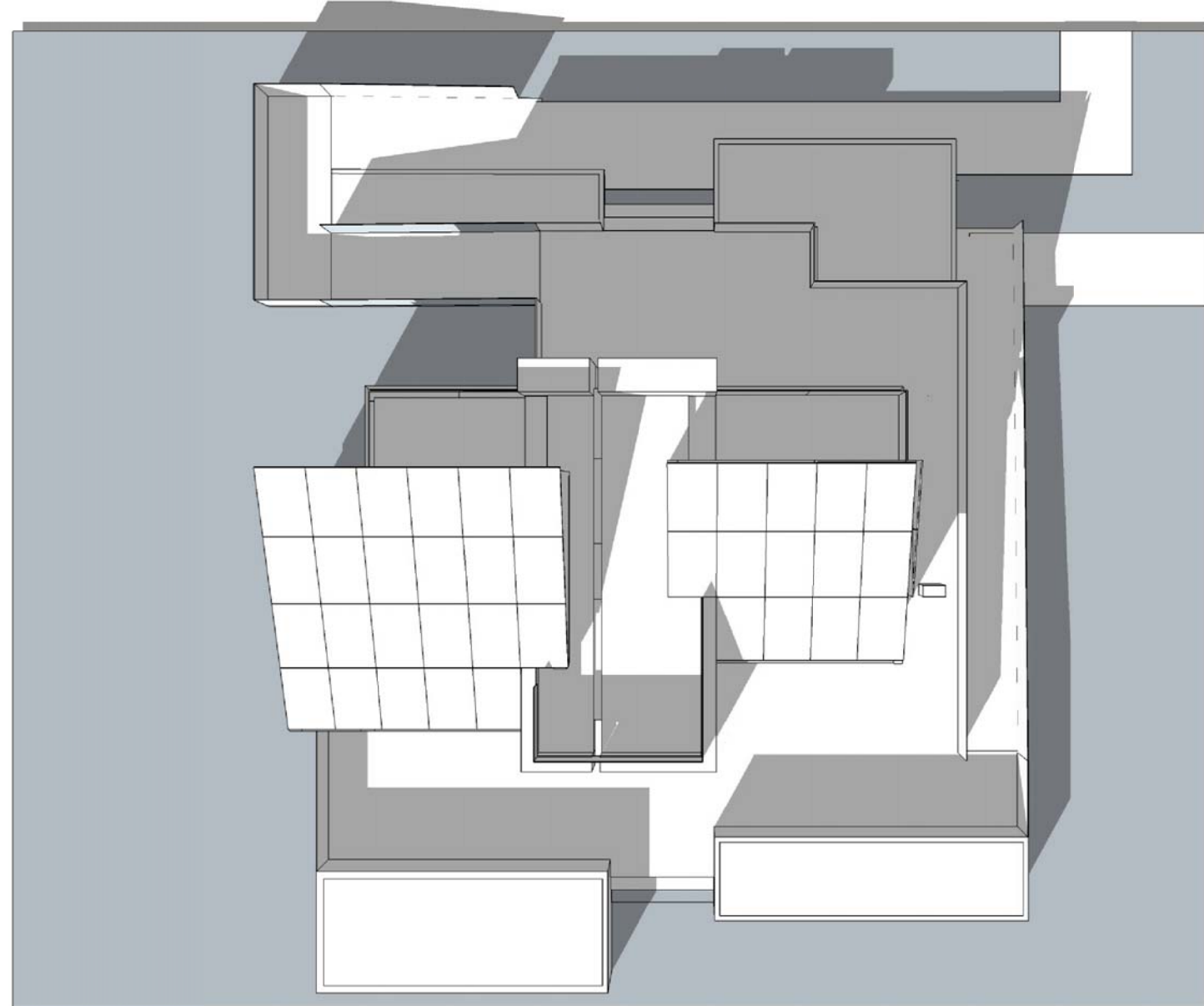
ISSUED DATES	
DATE:	DESCRIPTION
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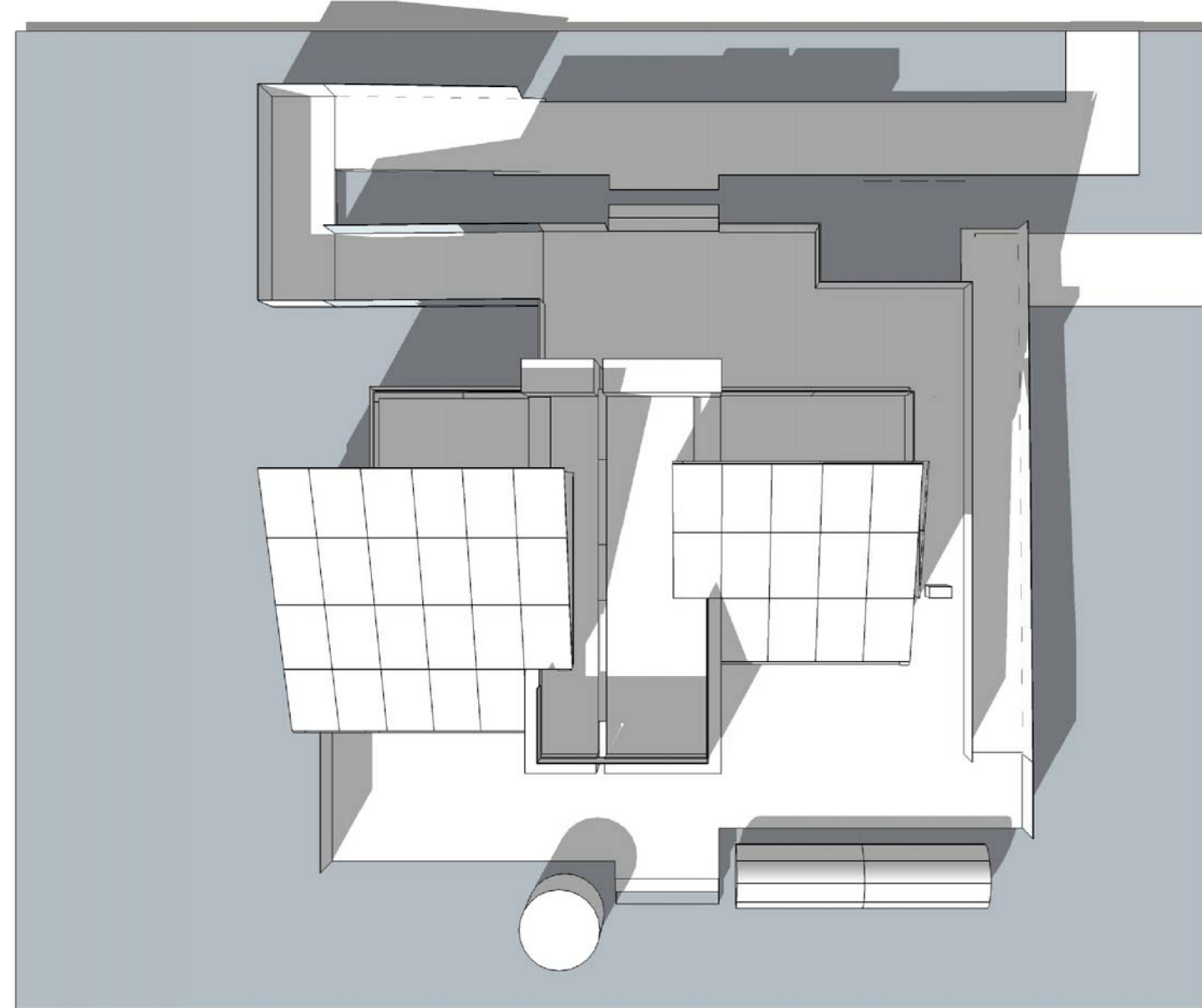
STAMP:

DRAWN: DS	CHECKED: TH
DATE:	2009/05/30
SCALE:	N.T.S

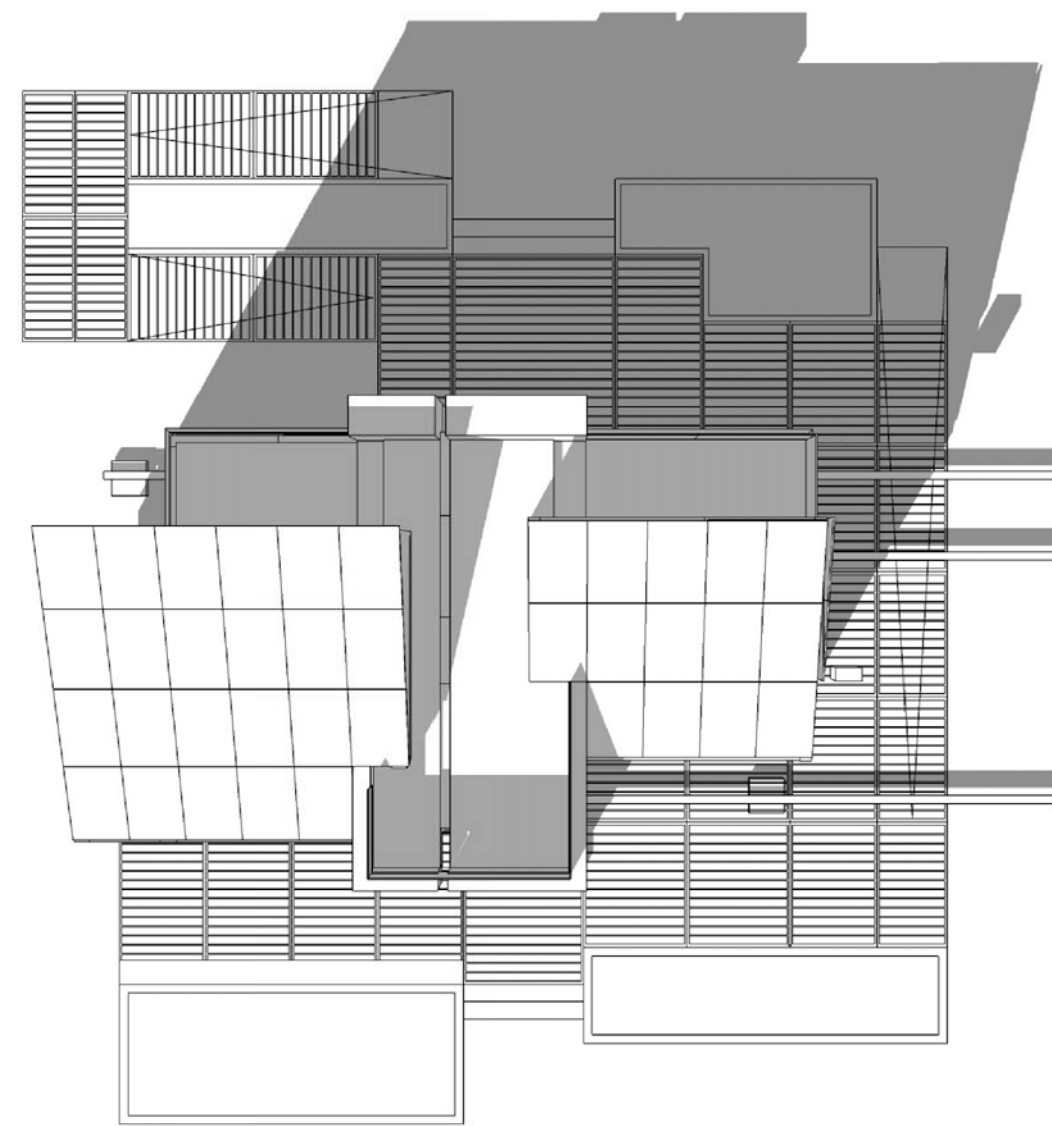
SHEET TITLE:
MODULE ASSEMBLY CONT'
SHEET #:
O-104



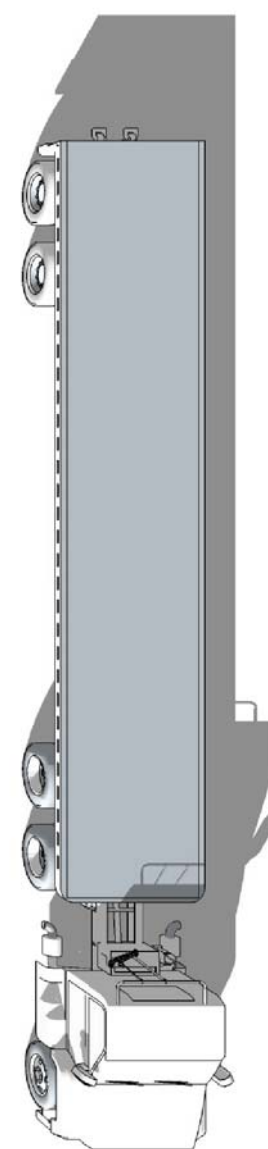
1 LANDSCAPE DISASSEMBLY
O-105 DECK SURFACE



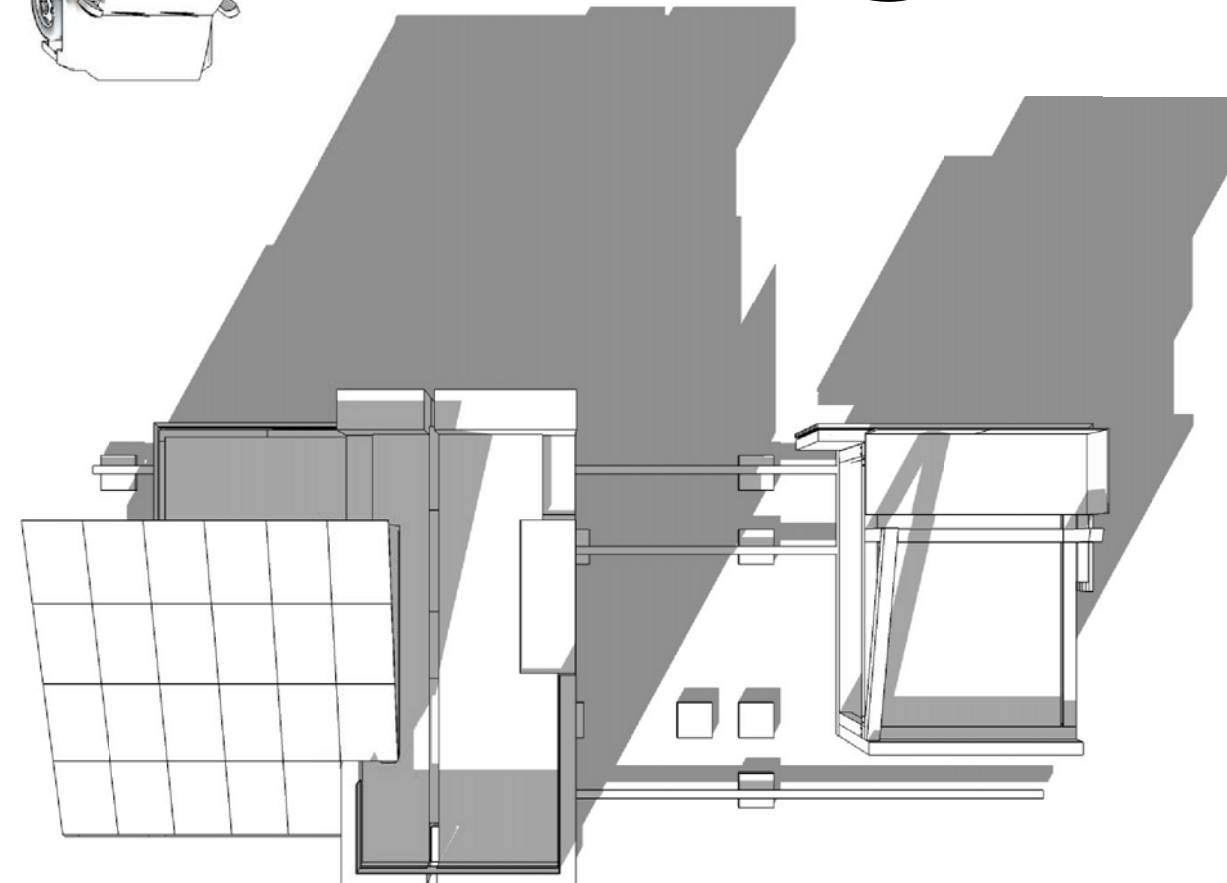
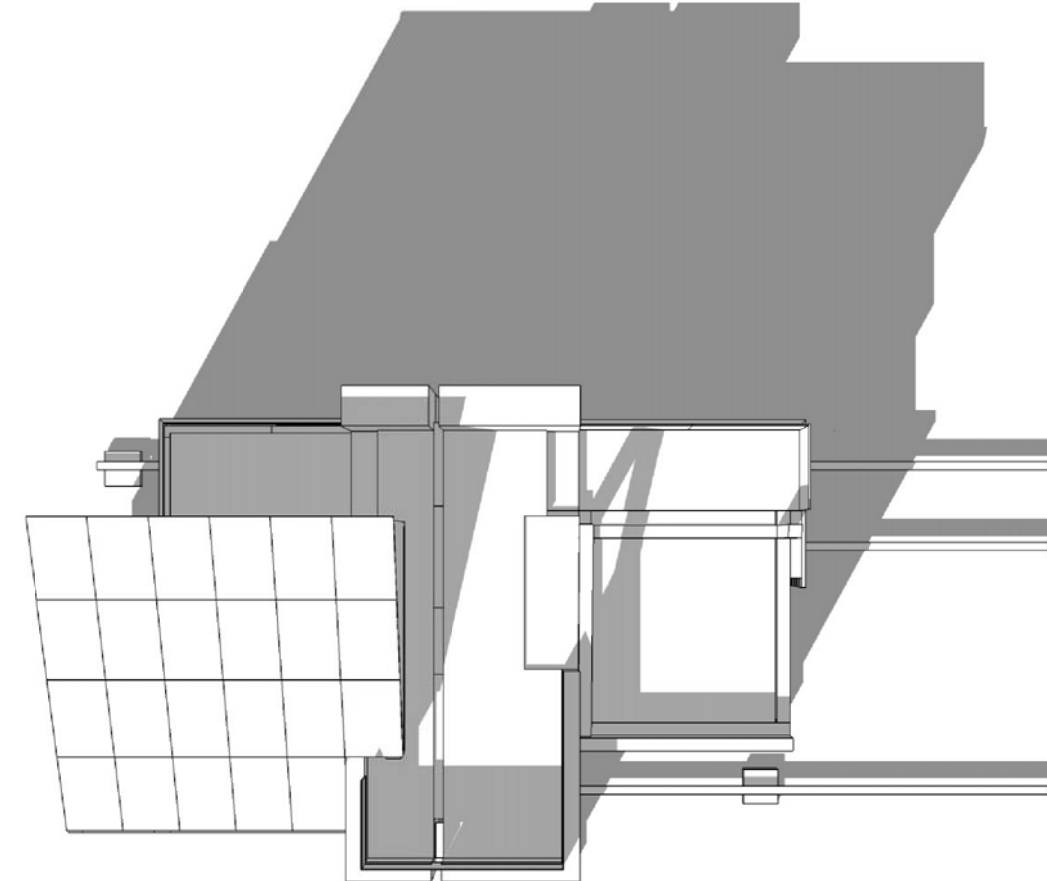
2 DECK STRUCTURE
O-105 TRANSPORT BRACING LAYOUT



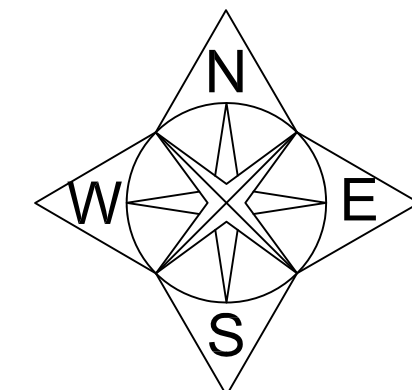
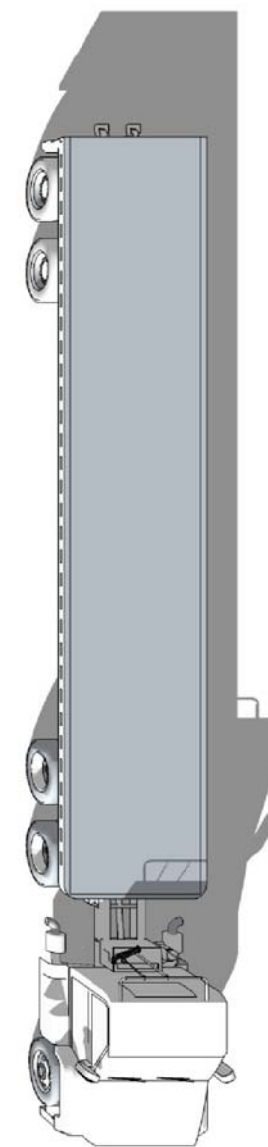
3 BEDROOM ROOF
O-105 DISASSEMBLE



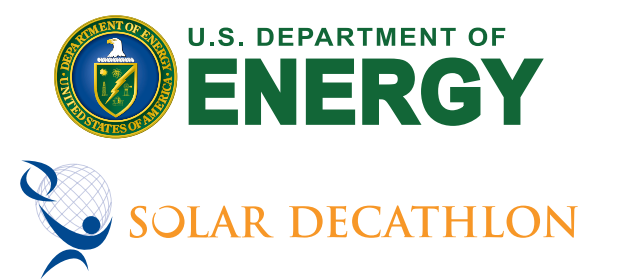
4 BEDROOM MODULE
O-105 DISCONNECT



5 BEDROOM MODULE
O-105 REMOVE & LOAD

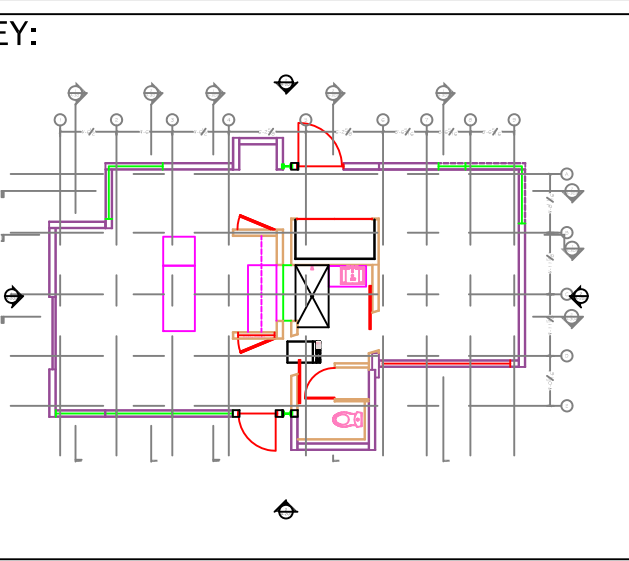


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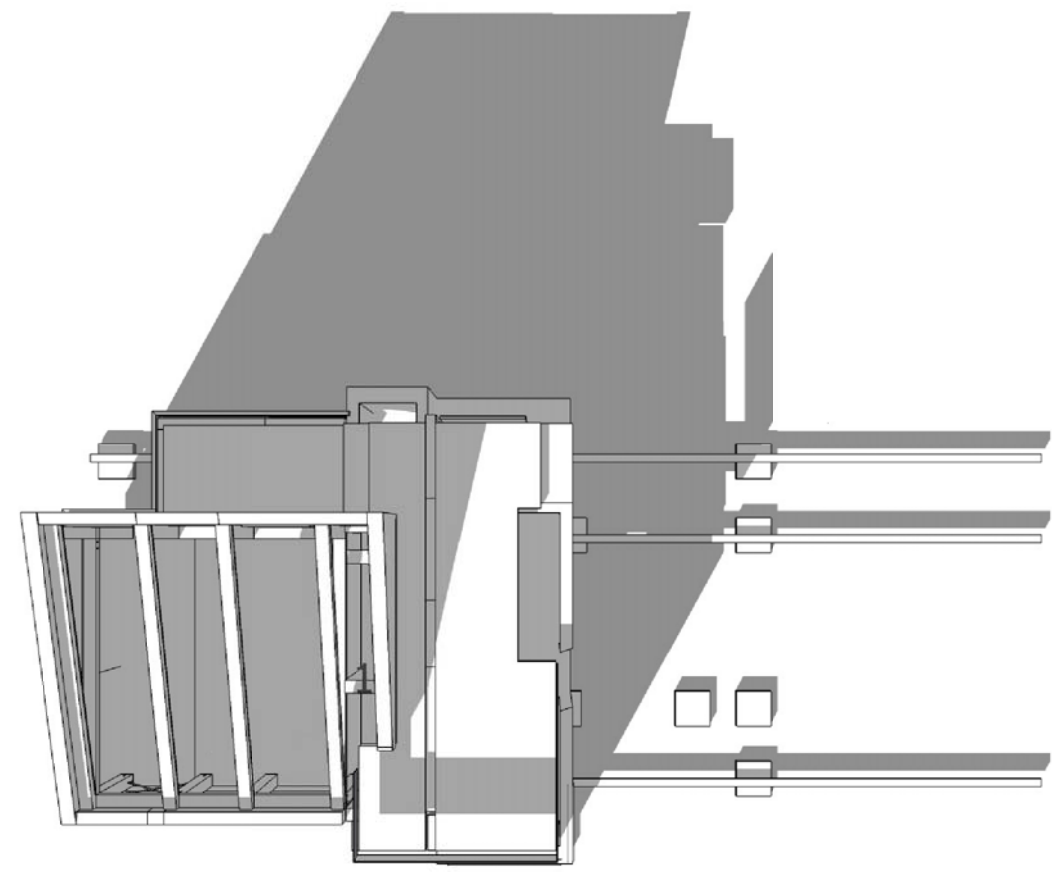
DRAWN:	CHECKED:
DS	TH

DATE: 2009/05/30

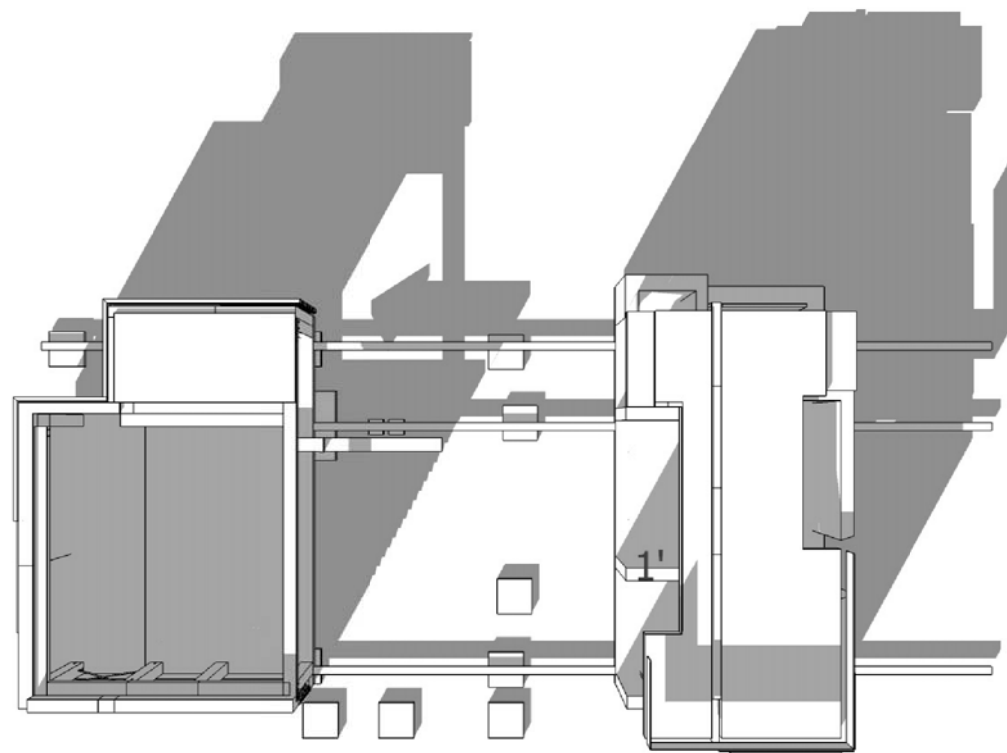
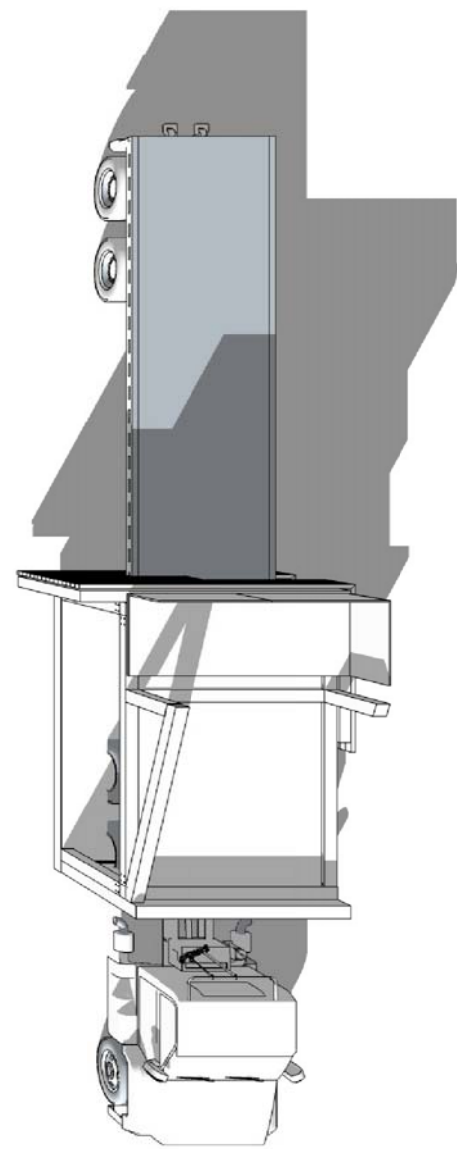
SCALE: N.T.S

SHEET TITLE: MODULE DIS-ASSEMBLY

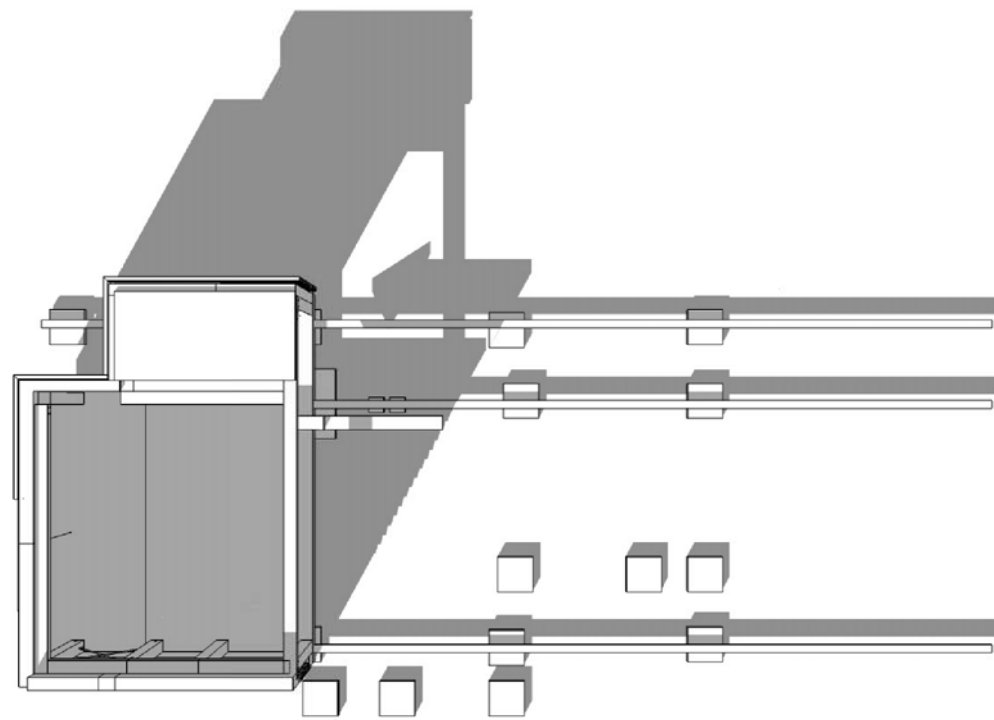
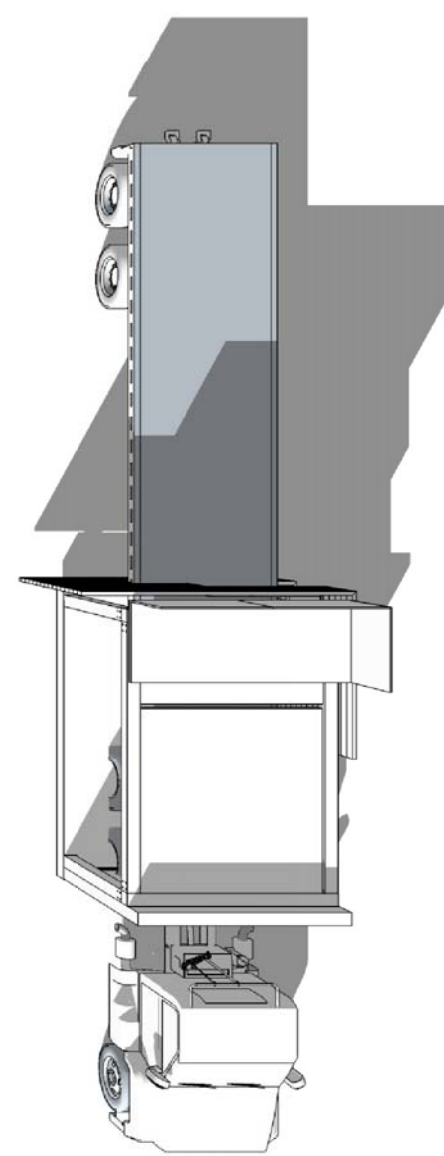
SHEET #: O-105



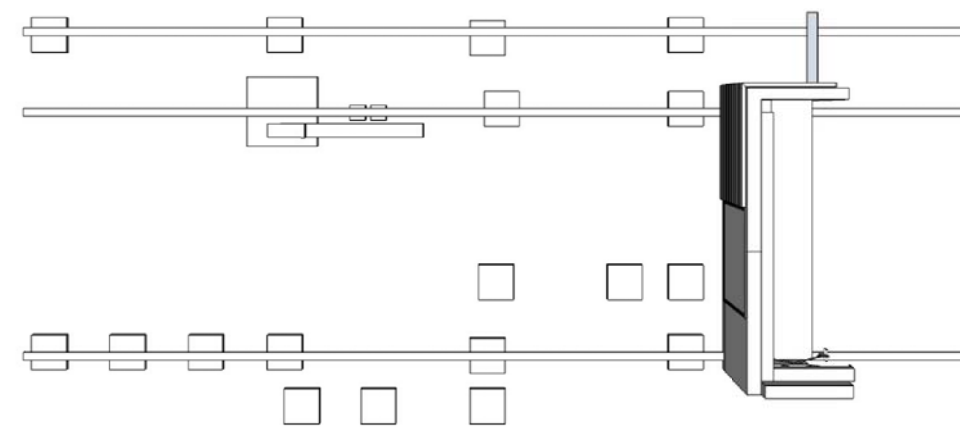
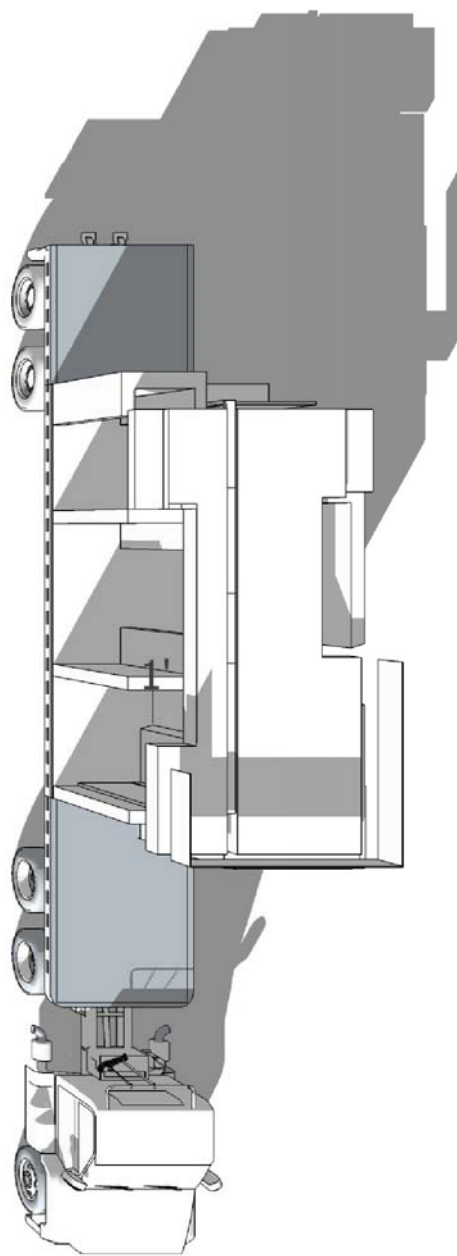
6
O-106 LIVING ROOM & KITCHEN
ROOF DISASSEMBLY



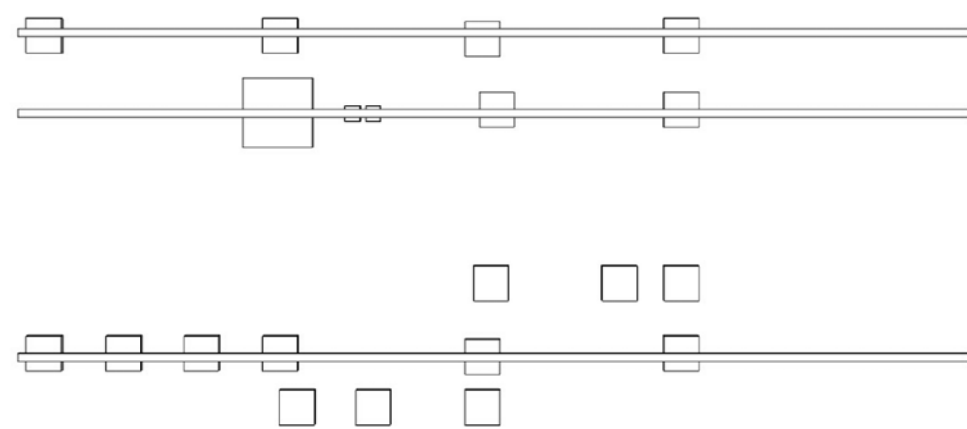
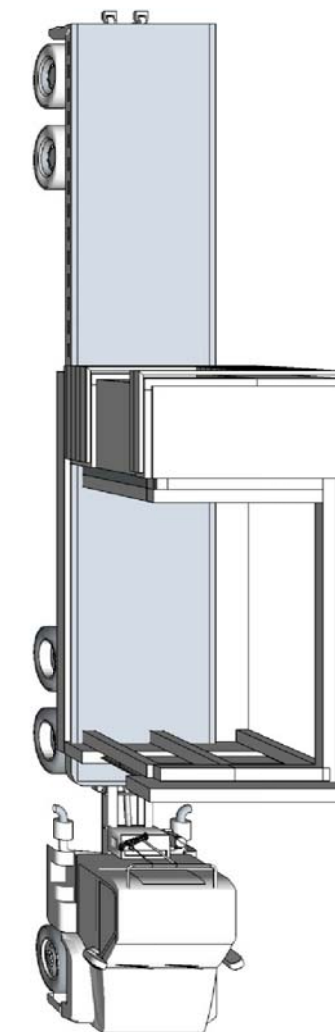
7
O-106 CORE MODULE
DISCONNECT



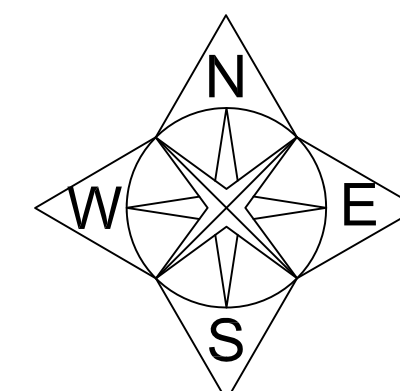
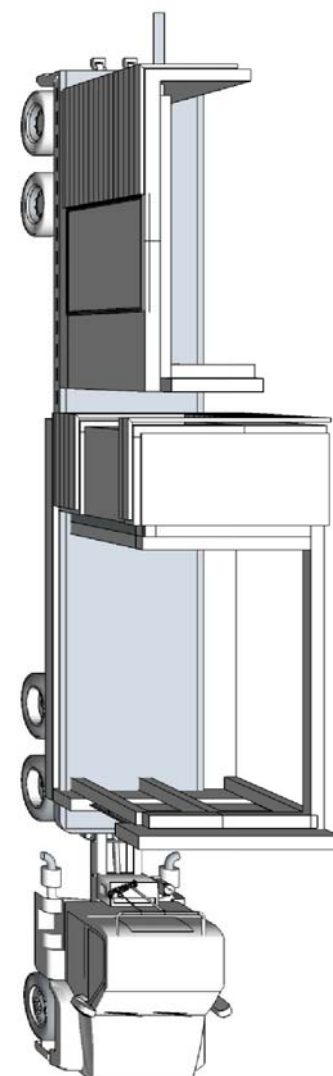
8
O-106 CORE MODULE
REMOVE & LOAD




4
O-105 KITCHEN MODULE
DISCONNECT & LOAD




5
O-105 LIVING ROOM MODULE
REMOVE & LOAD






ALBERTA COLLEGE OF ART + DESIGN

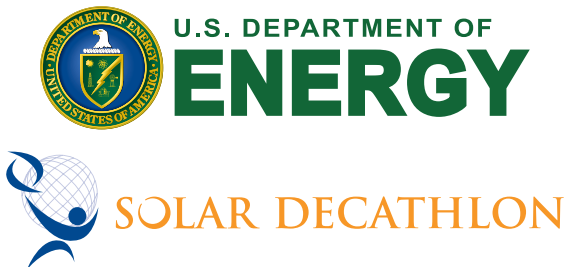


MOUNT ROYAL COLLEGE



UNIVERSITY OF CALGARY

Alberta Solar Decathlon Team



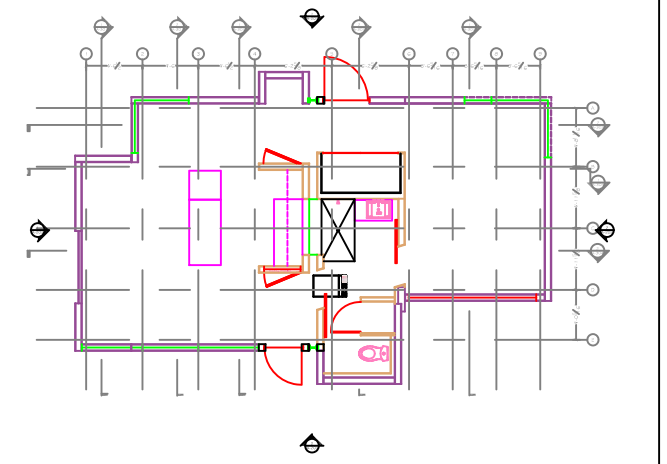
ISSUED DATES

DATE:	DESCRIPTION
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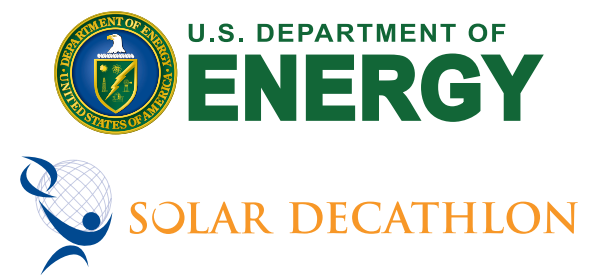
DATE:	DESCRIPTION
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KEY:

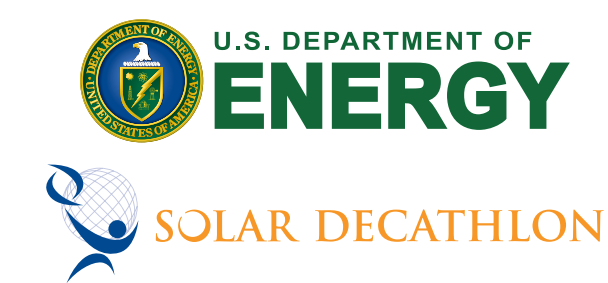


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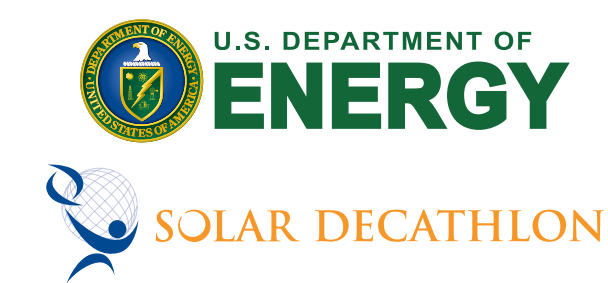
DRAWN: DS	CHECKED: TH
DATE: 2009/05/30	
SCALE: N.T.S	
SHEET TITLE: MODULE DIS-ASSEMBLY	
SHEET #: O-106	



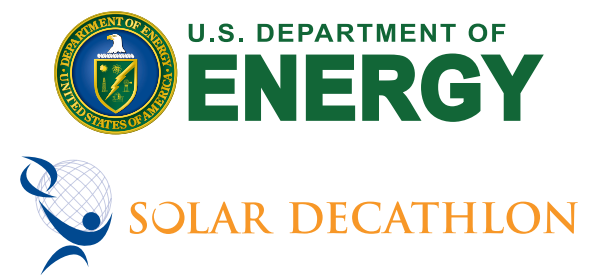
Alberta Solar Decathlon Team



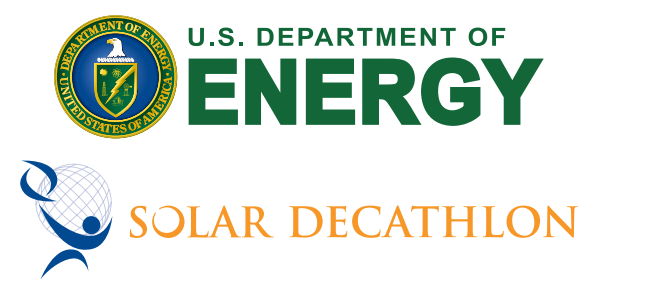
Alberta Solar Decathlon Team



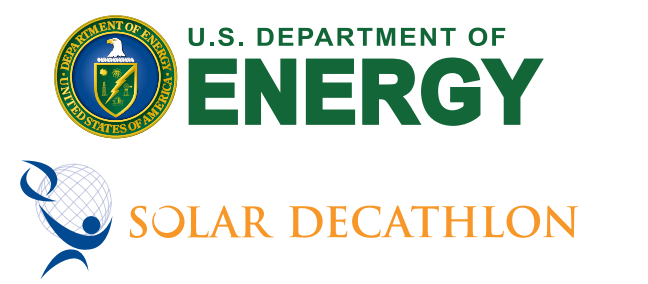
Alberta Solar Decathlon Team



Alberta Solar Decathlon Team



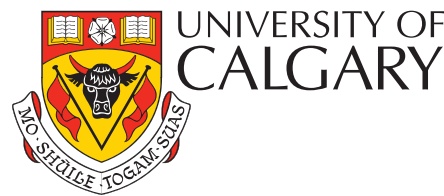
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Alberta Solar Decathlon Team



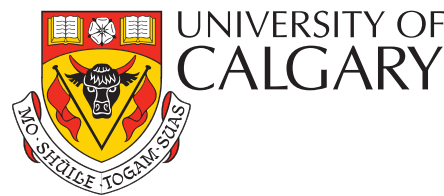
ALBERTA COLLEGE OF ART • DESIGN



Alberta Solar Decathlon Team



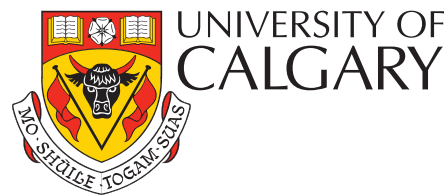
ALBERTA COLLEGE OF ART • DESIGN



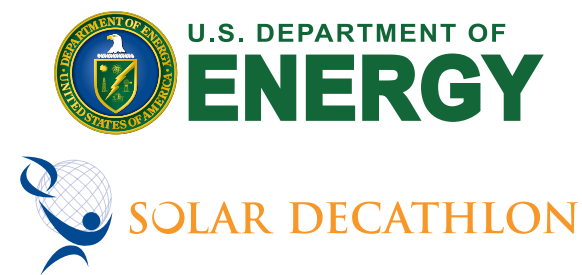
Alberta Solar Decathlon Team



ALBERTA COLLEGE OF ART • DESIGN



Alberta Solar Decathlon Team



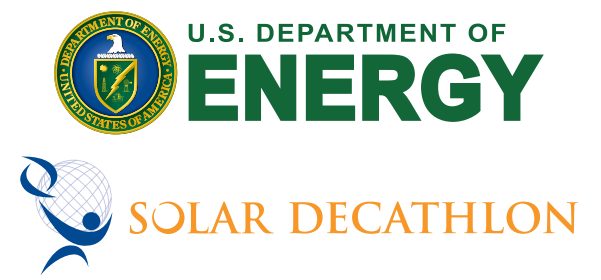
Alberta Solar Decathlon Team



ALBERTA COLLEGE OF ART • DESIGN



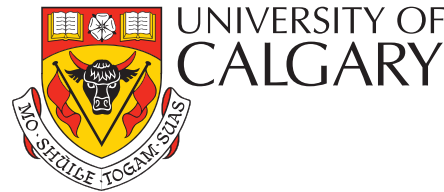
Alberta Solar Decathlon Team



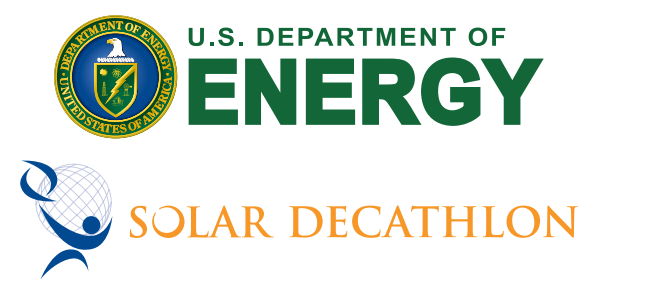
Alberta Solar Decathlon Team



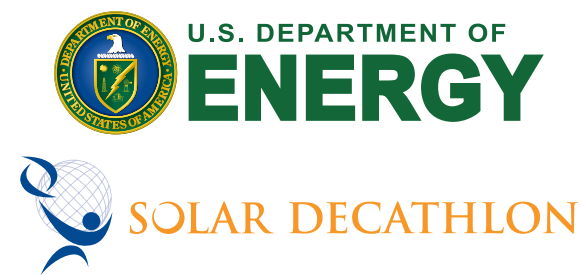
ALBERTA COLLEGE OF ART • DESIGN



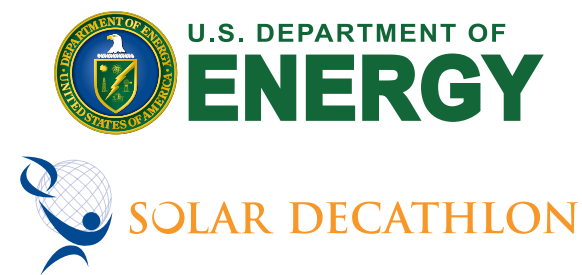
Alberta Solar Decathlon Team



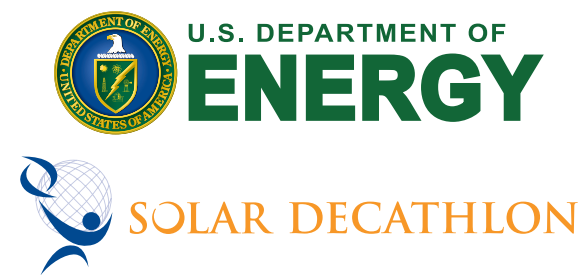
Alberta Solar Decathlon Team



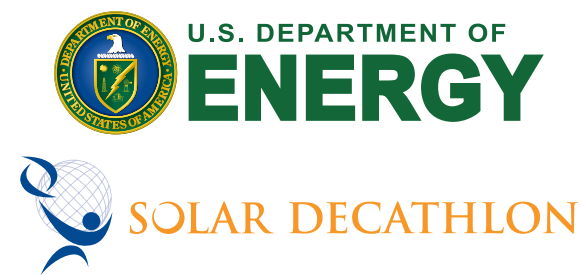
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Alberta Solar Decathlon Team



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