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# DAKOTA HOMES - CARLA

RIVERTON

UTAH

**ARCHITECT**

KEN HARRIS ARCHITECT  
PROVO UTAH

**STRUCTURAL ENGINEER**

ACUTE ENGINEERING  
OREM UTAH

**GENERAL CONTRACTOR**

DAKOTA HOMES  
SANDY, UTAH

ARCHITECTURAL		STRUCTURAL	ELECTRICAL
A1 - SITE PLAN	A7 - RIGHT SIDE ELEVATION	S1 - FOOTING & FOUNDATION PLAN	E1 - BASEMENT FLOOR ELECTRICAL
A2 - BASEMENT FLOOR PLAN	A8 - CROSS SECTION	S2 - MAIN FLOOR FRAMING PLAN	E2 - MAIN FLOOR ELECTRICAL
A3 - MAIN FLOOR PLAN	A9 - ROOF PLAN	S3 - ROOF FRAMING PLAN	
A4 - FRONT ELEVATION	A10 - GENERAL NOTES	S4 - STRUCTURAL DETAILS	
A5 - LEFT SIDE ELEVATION		S5 - STRUCTURAL DETAILS	
A6 - REAR ELEVATION		S6 - STRUCTURAL NOTES	



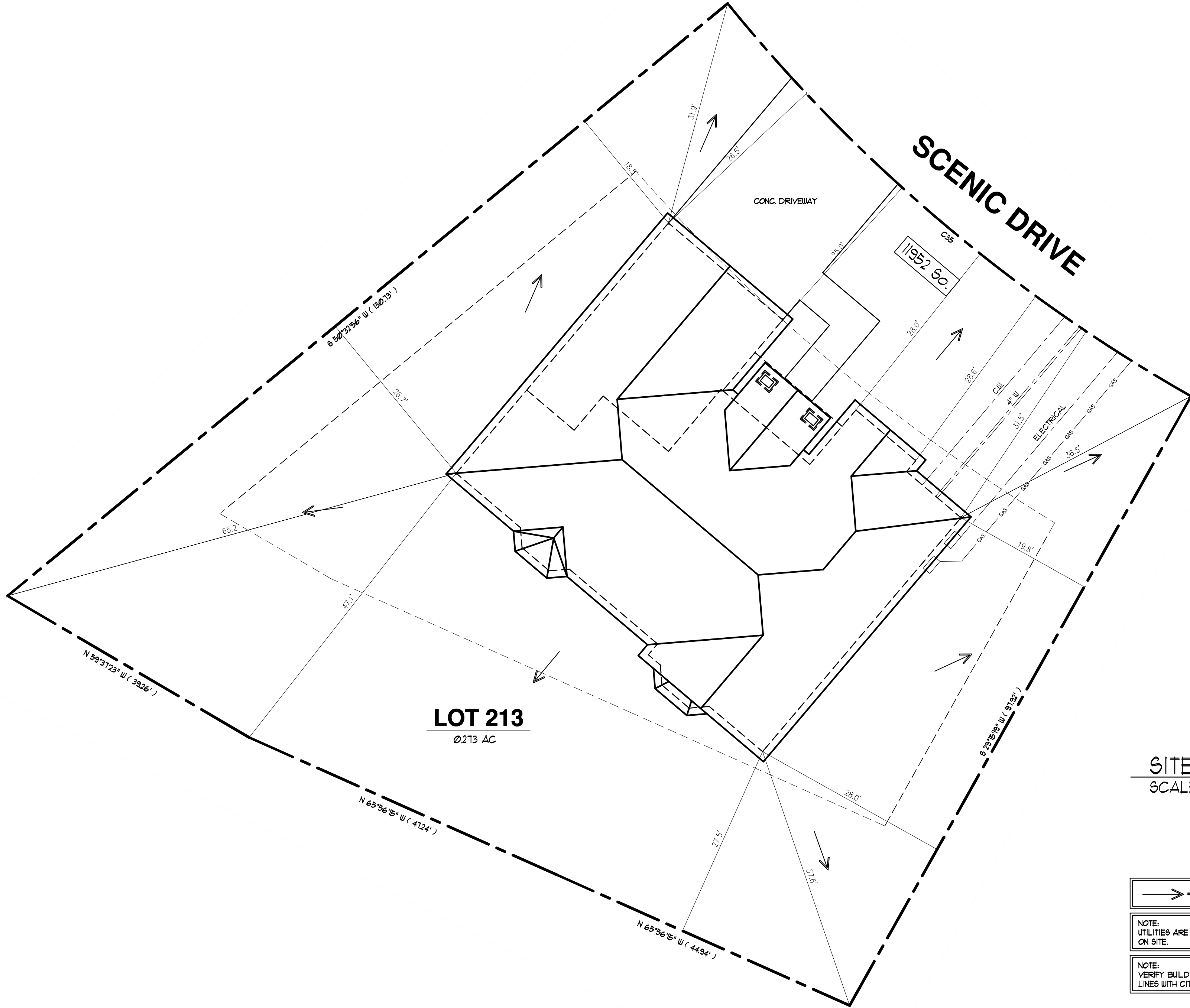
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**DAKOTA HOMES - CARLA**  
 RIVERTON  
 UTAH  
**TITLE SHEET**

DRAWN JLH
CHECKED KBH
DATE DECEMBER 2010
PLOTTED 12-20-2010
SCALE SEE PLAN
SHEET

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE

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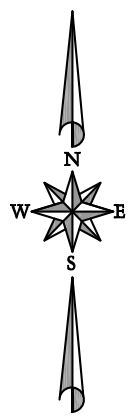
**LOT 213**  
0.213 AC

**SCENIC DRIVE**

CONC. DRIVEWAY

11952 So.

**SITE PLAN**  
SCALE: 1" = 10'



→ SLOPE GRADE AWAY FROM RESIDENCE 2% FOR A MIN. OF 12'-0"

NOTE: UTILITIES ARE SCHEMATIC ONLY. VERIFY LOCATIONS ON SITE.

NOTE: VERIFY BUILDING SETBACKS AND ALL PROPERTY LINES WITH CITY RECORDED / APPROVED PLAT MAP

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE

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**UTAH**

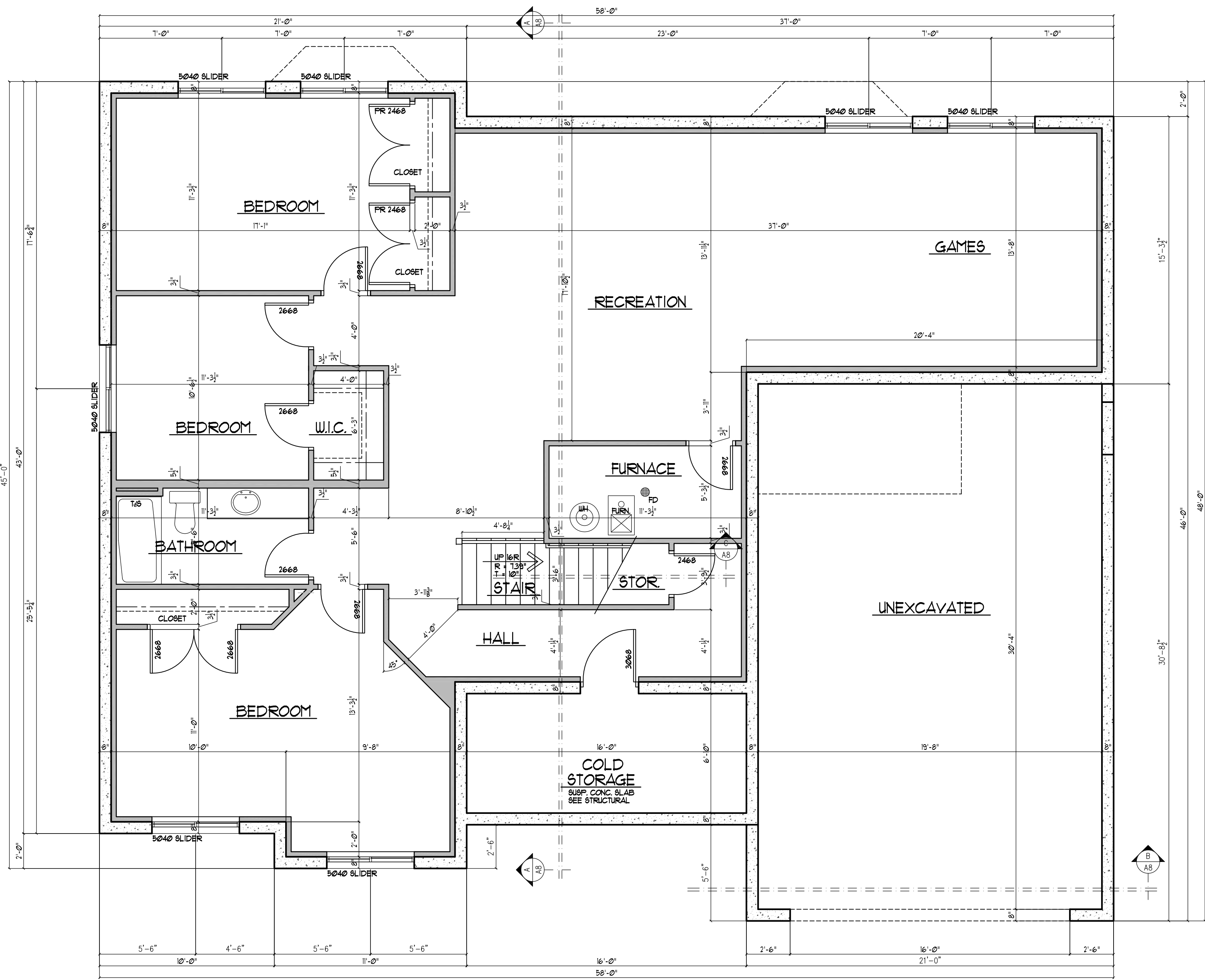
**DAKOTA HOMES - CARLA**

**RIVERTON**

**SITE PLAN**

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CHECKED KBH
DATE DECEMBER 2010
PLOTTED 12-20-2010
SCALE SEE PLAN
SHEET <b>A1</b>

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### BASEMENT FLOOR PLAN

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

BASEMENT - 1,106 SF  
COLD STORAGE - 125 SF

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**DAKOTA HOMES - CARLA**  
RIVERTON UTAH  
**BASEMENT FLOOR PLAN**

DRAWN	JLH
CHECKED	KBH
DATE	DECEMBER 2010
PLOTTED	12-20-2010
SCALE	SEE PLAN
SHEET	

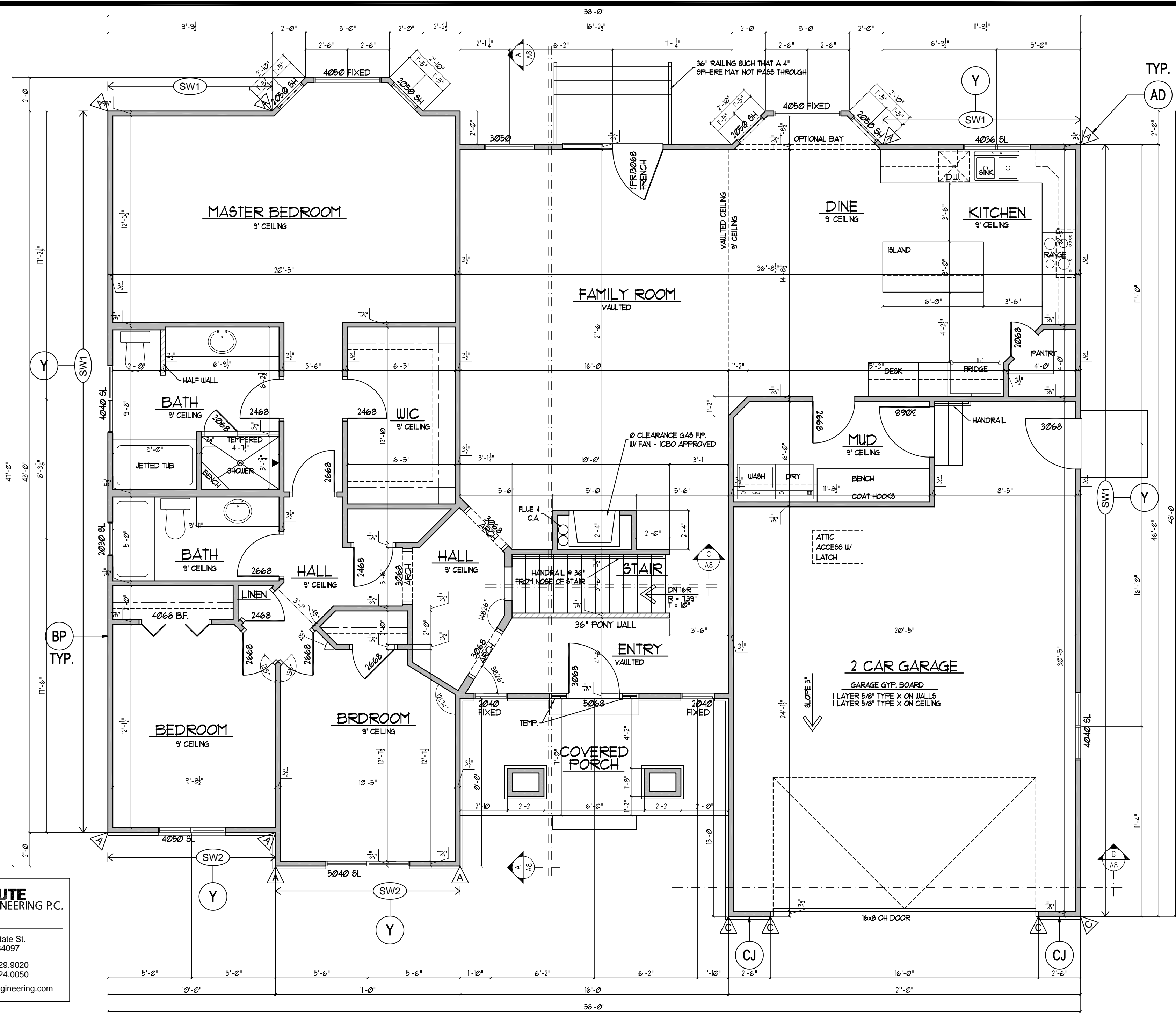
# A2

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**DAKOTA HOMES - CARLA**  
 RIVERTON  
 UTAH  
**MAIN FLOOR PLAN**

DRAWN JLH  
 CHECKED KBH  
 DATE DECEMBER 2010  
 PLOTTED 12-20-2010  
 SCALE SEE PLAN  
 SHEET **A3**



NOTE: FLASHING & COUNTER-FLASHING AROUND WINDOWS AND DOORS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.

XX SEE SHEETS S4 AND S5 FOR ALL STRUCTURAL DETAILS

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 Fax 801.224.0050  
 info@acuteengineering.com

HOLD-DOWN SCHEDULE				
MARK	HOLD-DOWN <sup>1,3</sup>	FASTENERS <sup>2</sup>	ANCHOR	POST
△	STHD8	(24) 10d	STRAP 8" EMBED.	(2) 2X POST
△	STHD14	(38) 10d	STRAP 14" EMBED.	(2) 2X POST

1. SIMPSON STRONG-TIE OR EQUIVALENT. STHD STRAPS USE "RJ" TYPE AT RIM JOIST LOCATIONS.  
 2. 10d NAILS SHALL BE COMMON NAILS. SHEAR WALL EDGE NAILING SHALL BE TO POST.  
 3. MISPLACED STHD HOLD-DOWNS MAY BE RETROFITTED USING HTT22 HOLD-DOWNS WITH 5/8" ALL-THREAD BOLTS. EPOXY INTO FOUNDATION WALL WITH 5 INCHES EMBEDMENT. WHERE FRAMED WALL IS FLUSH WITH FOUNDATION WALL USE MST48 WITH TWO 1/2" DIA. WEDGE ANCHORS AS OPTION. FASTEN WITH 16-16d COMMON NAILS TO POST ABOVE.

### MAIN FLOOR PLAN

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

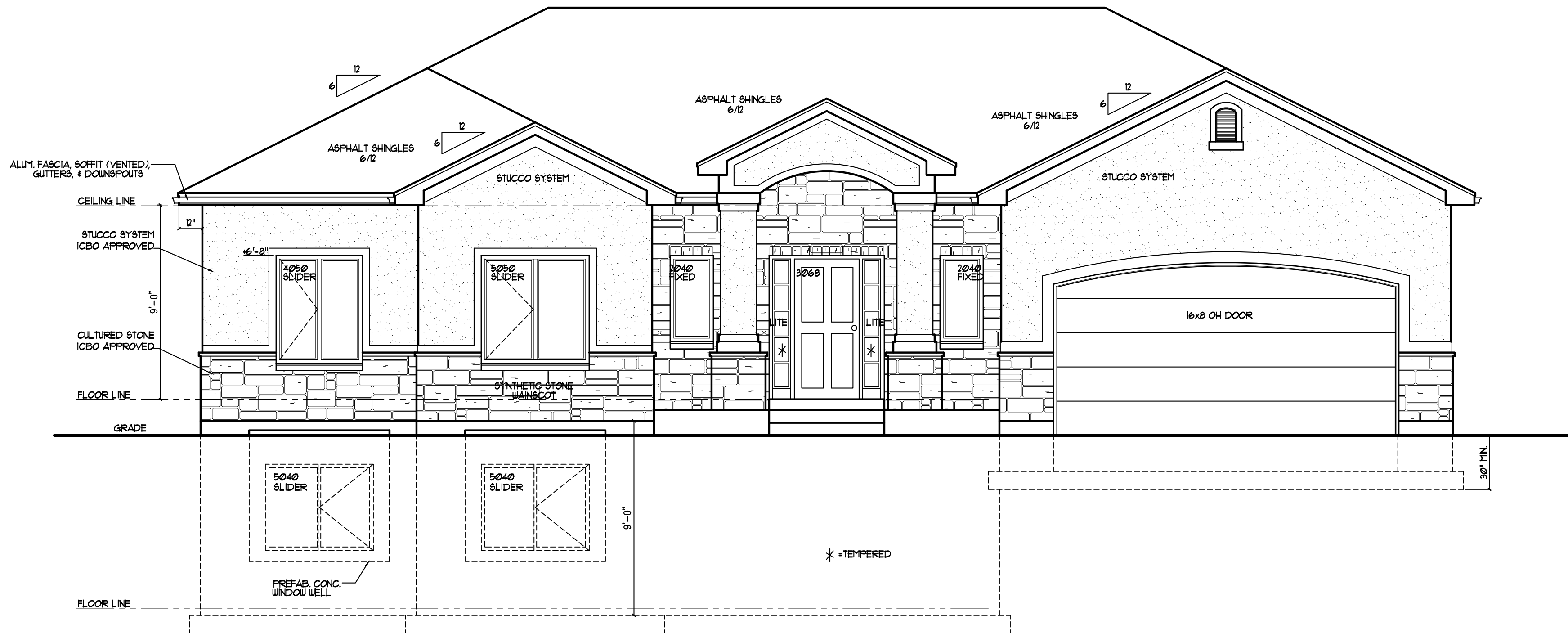
MAIN - 1883 sf  
 GARAGE - 564 sf

SHEAR WALL SCHEDULE					
MARK	SHEATHING <sup>1</sup>	EDGE NAILING <sup>2</sup>	WALL FRAMING <sup>3,6</sup>	ANCHORAGE	
				SOLE PLATE <sup>4</sup>	SILL PLATE <sup>5</sup>
SW1	7/16"	8d @ 6"	2" NOMINAL	10d @ 12"	1/2" A.B. @ 32"
SW2	7/16"	8d @ 4"	2" NOMINAL	10d @ 12"	1/2" A.B. @ 32"

1. WOOD STRUCTURAL PANELS--SHEATHING.  
 2. COMMON OR BOX NAILS. FIELD NAILING 12".  
 3. ANCHOR BOLTS SHALL HAVE A 3x3x0.229" WASHER AND 7" MIN EMBEDMENT.

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE

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**FRONT ELEVATION**

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



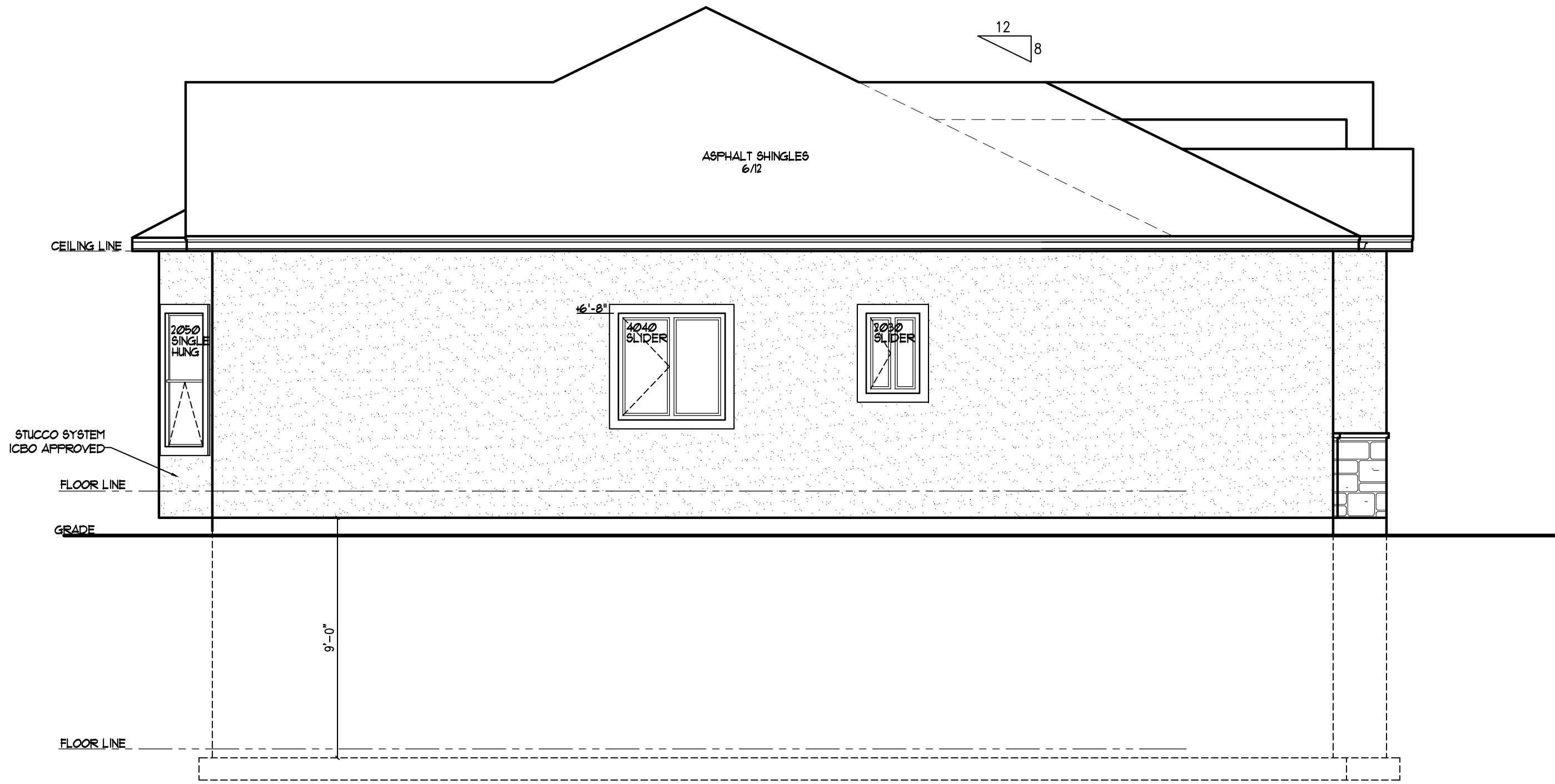
**DAKOTA HOMES - CARLA**  
 RIVERTON  
 UTAH  
**FRONT ELEVATION**

DRAWN  
 JLH  
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 KBH  
 DATE  
 DECEMBER 2010  
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 12-20-2010  
 SCALE  
 SEE PLAN  
 SHEET

**A4**

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LEFT SIDE ELEVATION

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



**UTAH**

**DAKOTA HOMES - CARLA**

**RIVERTON**

**LEFT SIDE ELEVATION**

DRAWN  
JLH

CHECKED  
KBH

DATE  
DECEMBER 2010

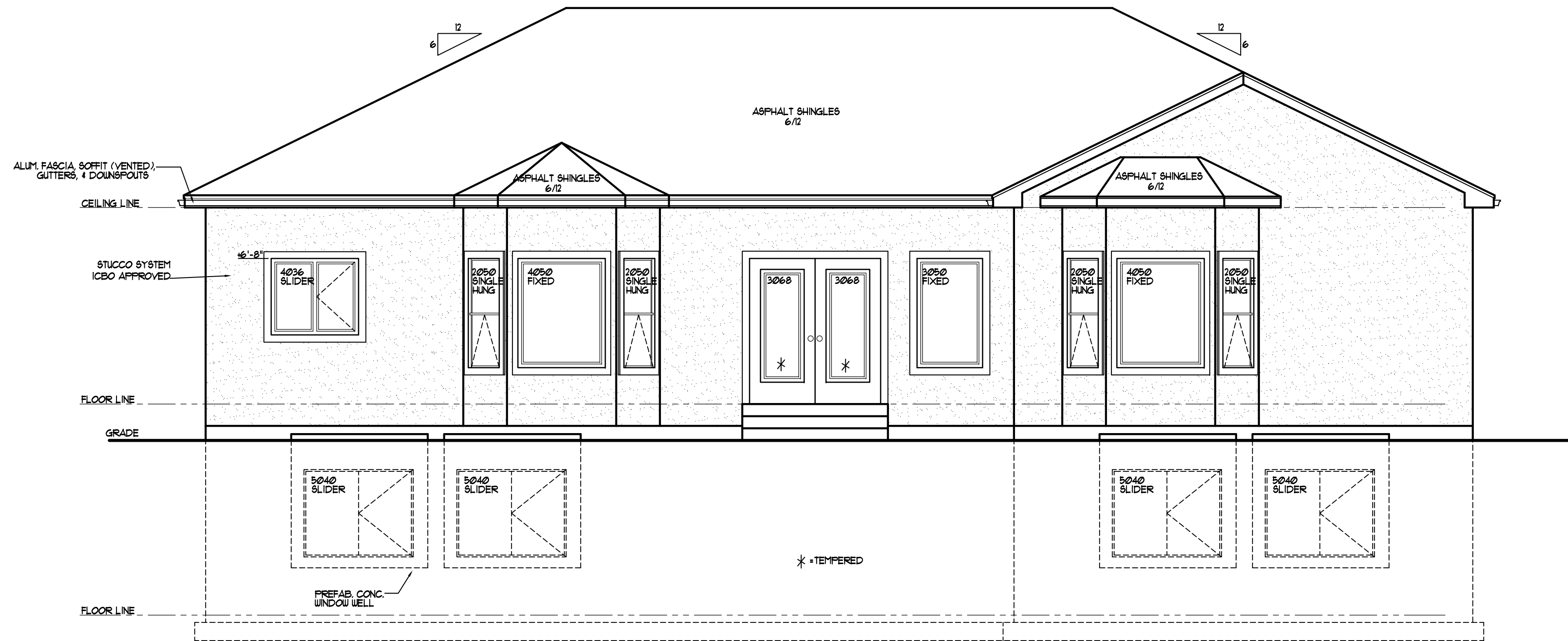
PLOTTED  
12-20-2010

SCALE  
SEE PLAN

SHEET

**A5**

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**REAR ELEVATION**

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

**KEN FARRIS &**  
ARCHITECT

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**UTAH**

**DAKOTA HOMES - CARLA**

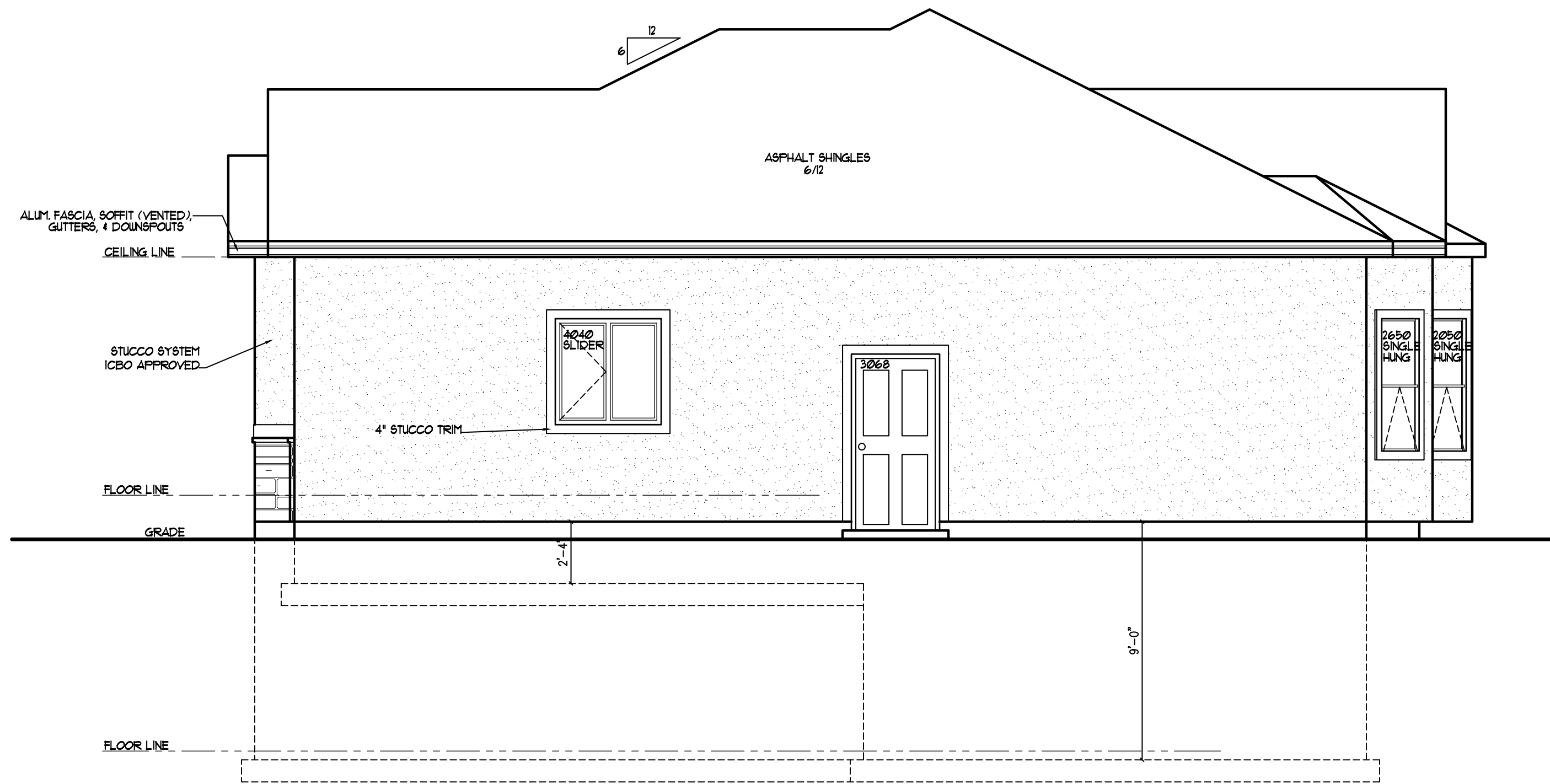
**RIVERTON**

**REAR ELEVATION**

DRAWN	JLH
CHECKED	KBH
DATE	DECEMBER 2010
PLOTTED	12-20-2010
SCALE	SEE PLAN
SHEET	

**A6**

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**RIGHT SIDE ELEVATION**  
 SCALE: 1/4" = 1'-0"



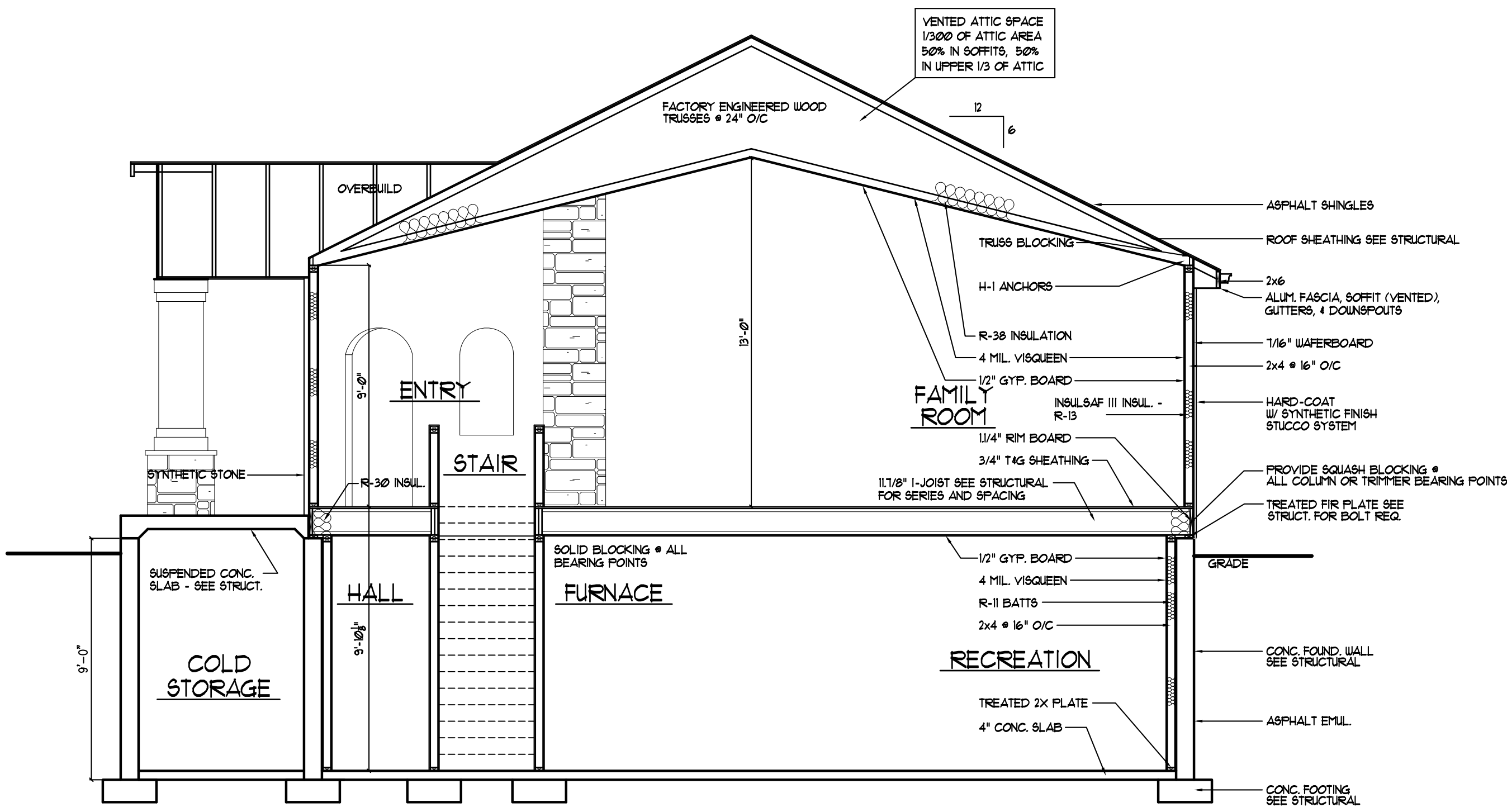
**DAKOTA HOMES - CARLA**  
 RIVERTON  
 UTAH  
**RIGHT SIDE ELEVATION**

DRAWN  
 JLH  
 CHECKED  
 KBH  
 DATE  
 DECEMBER 2010  
 PLOTTED  
 12-20-2010  
 SCALE  
 SEE PLAN  
 SHEET

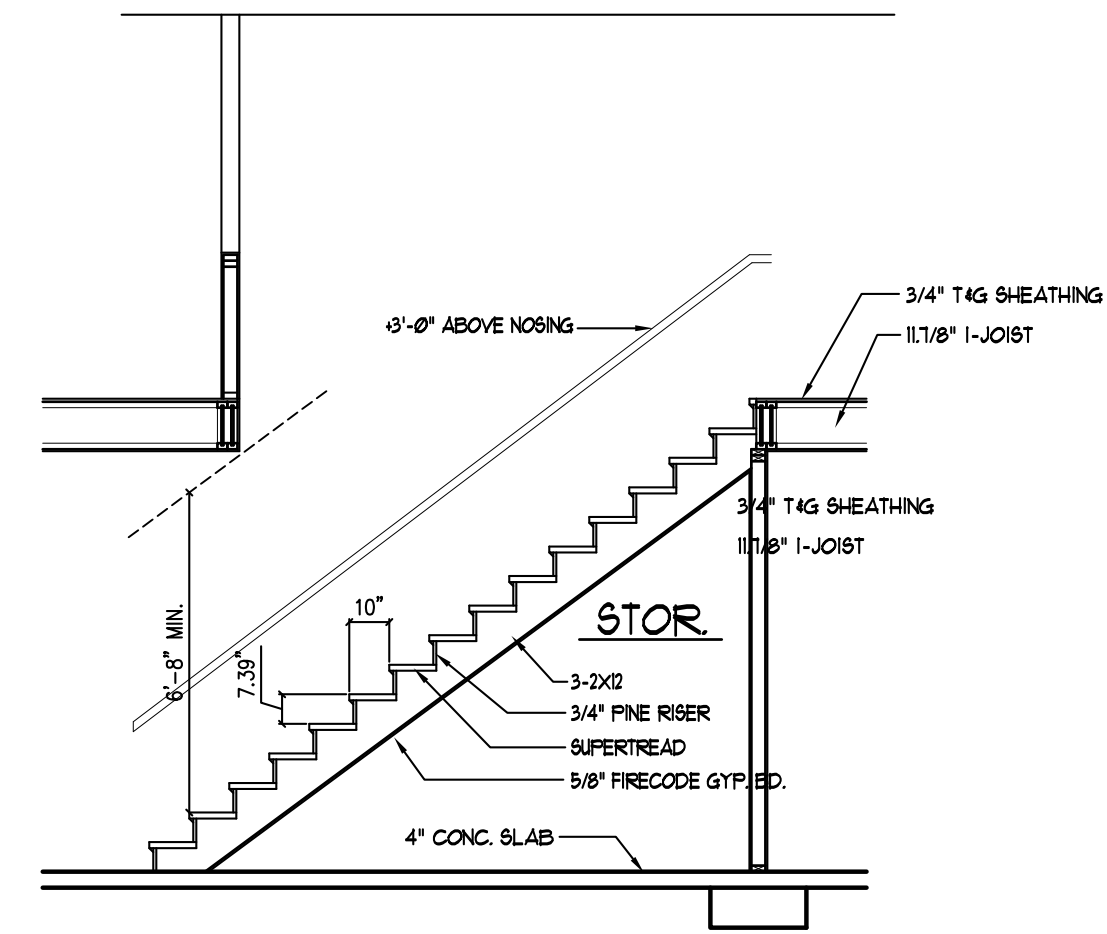
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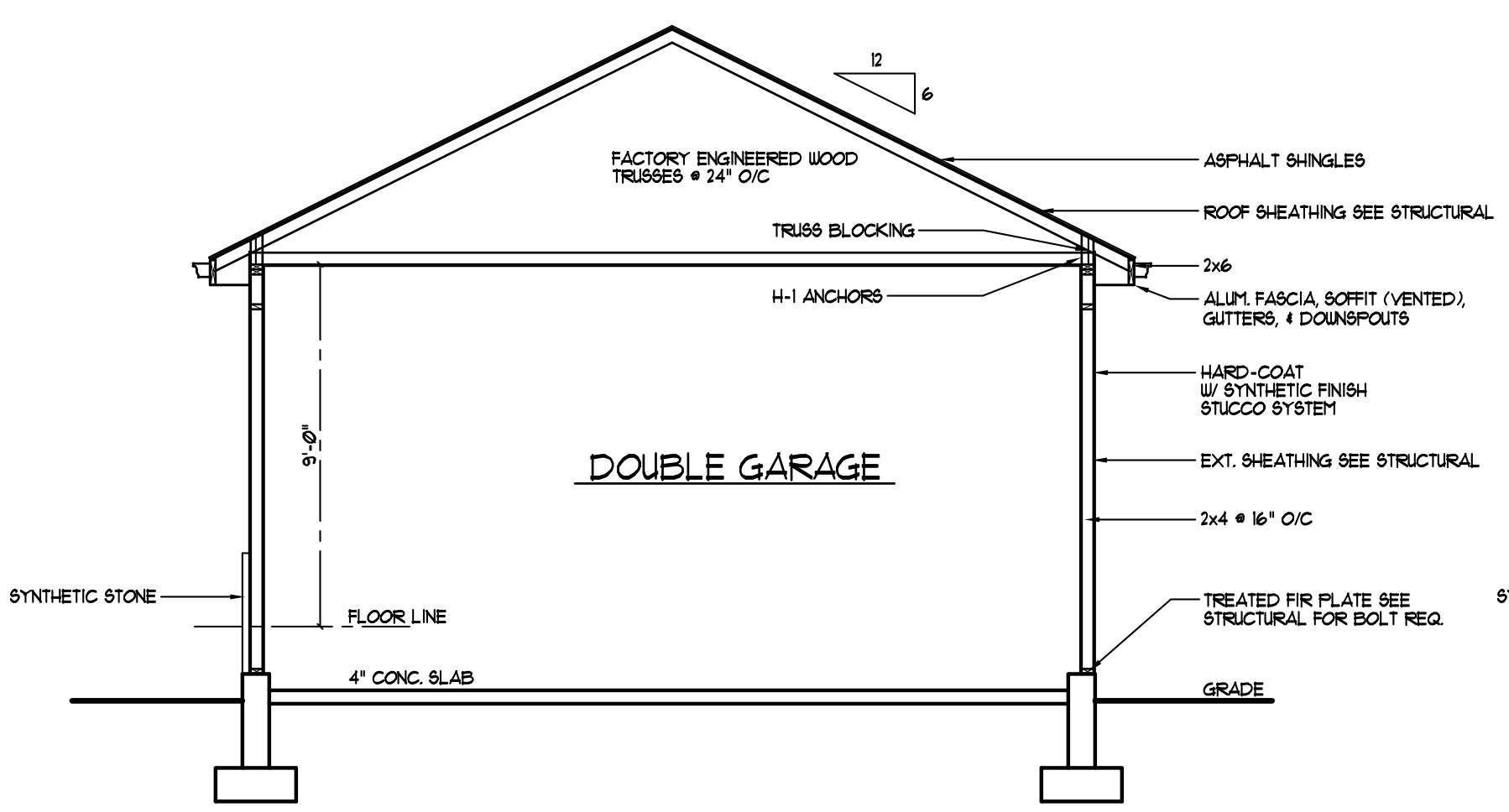
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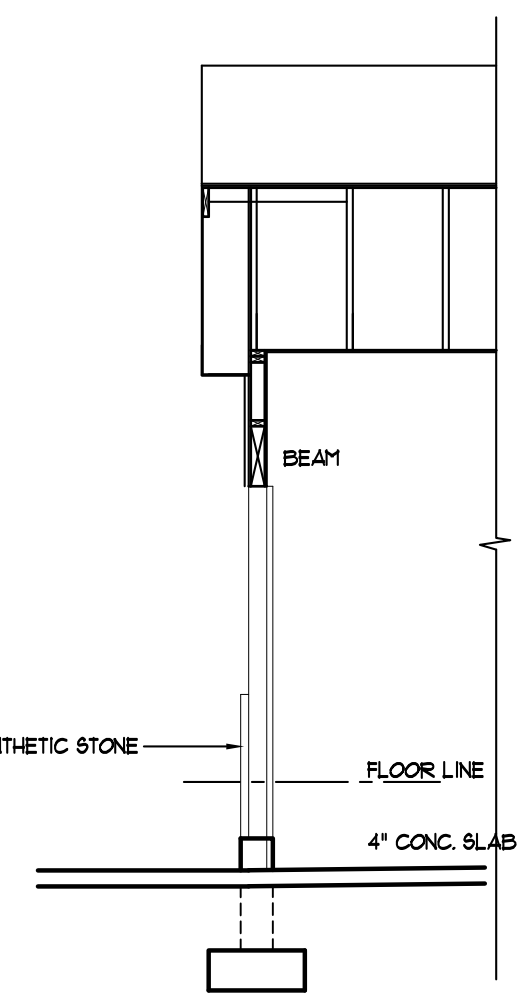
(A) CROSS SECTION  
SCALE - 1/4"=1'-0"



(C) STAIR SECTION  
SCALE - 1/4"=1'-0"



(B) CROSS SECTION  
SCALE - 1/4"=1'-0"



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**UTAH**

**DAKOTA HOMES - CARLA**

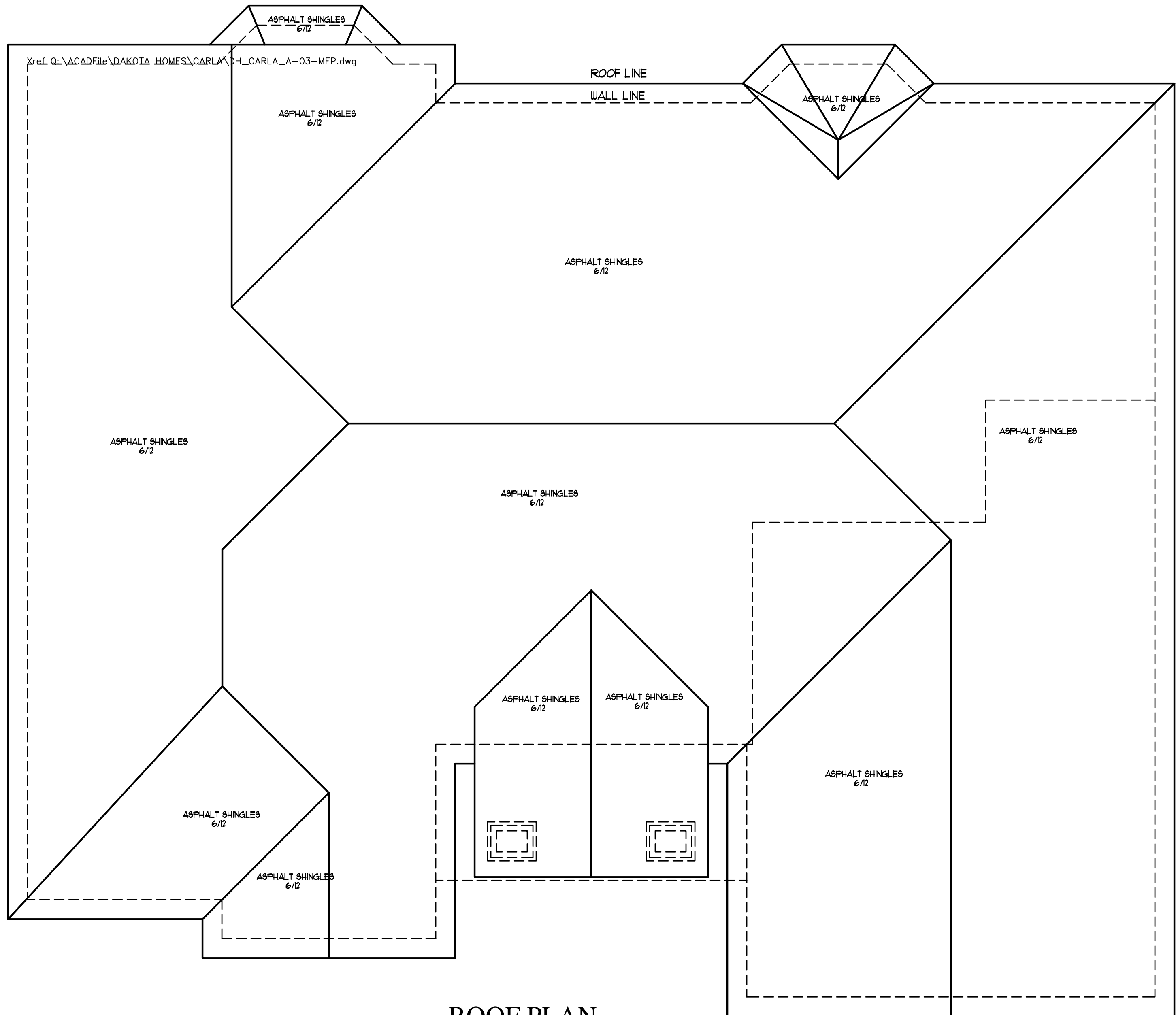
**RIVERTON**

**CROSS SECTION**

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SCALE SEE PLAN
SHEET
A8

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE

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

PROVIDE ICE AND WATER SHIELD AT ALL  
EAVE, RIDGE, AND VALLEY LINES - 3'-0" MIN.

ENTIRE ROOF IS 6/12 PITCH WITH  
ASPHALT SHINGLES - U.N.O.

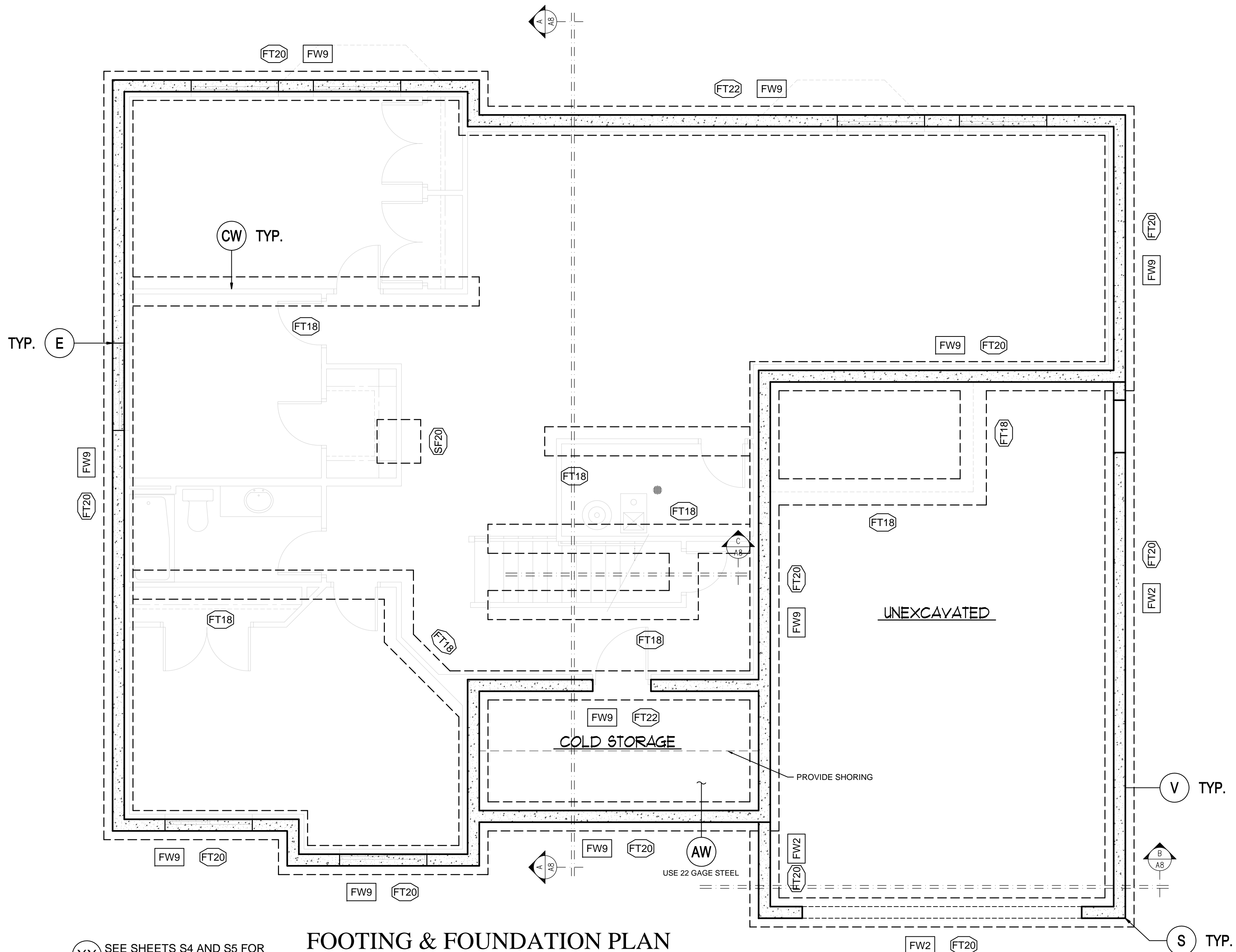
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**DAKOTA HOMES - CARLA**  
RIVERTON  
UTAH  
**ROOF PLAN**

DRAWN  
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SEE PLAN  
SHEET  
**A9**



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## FOOTING & FOUNDATION PLAN

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

XX SEE SHEETS S4 AND S5 FOR ALL STRUCTURAL DETAILS

FOOTING SCHEDULE					
MARK	WIDTH	LENGTH	THICKNESS	REINFORCEMENT	
				TRANSVERSE	LENGTHWISE
FT18	18"	CONT.	10"	-	(2) #4
FT20	20"	CONT.	10"	-	(2) #4
FT22	22"	CONT.	10"	-	(2) #4
SF20	20"	20"	10"	(2) #4	(2) #4

1. CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS AND SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS UNLESS NOTED OTHERWISE.

FOUNDATION WALL SCHEDULE					
MARK	HEIGHT	WIDTH	REINFORCEMENT <sup>1,2,3</sup>		
			VERTICAL	HORIZONTAL	PLACEMENT
FW2	2.5'	8"	#4 @ 24"	(2) #4	CENTER
FW9	9'	8"	#4 @ 16"	(7) #4	CENTER

1. DOWEL VERTICAL BARS INTO FOOTING.  
 2. PLACE TOP AND BOTTOM BARS WITHIN 4" OF TOP AND BOTTOM OF WALL.  
 3. PLACE REINFORCEMENT IN CENTER OF WALL OR NEAR EACH FACE, AS NOTED.

FOR INTERIOR AND EXTERIOR DIMENSIONS SEE BASEMENT FLOOR PLAN

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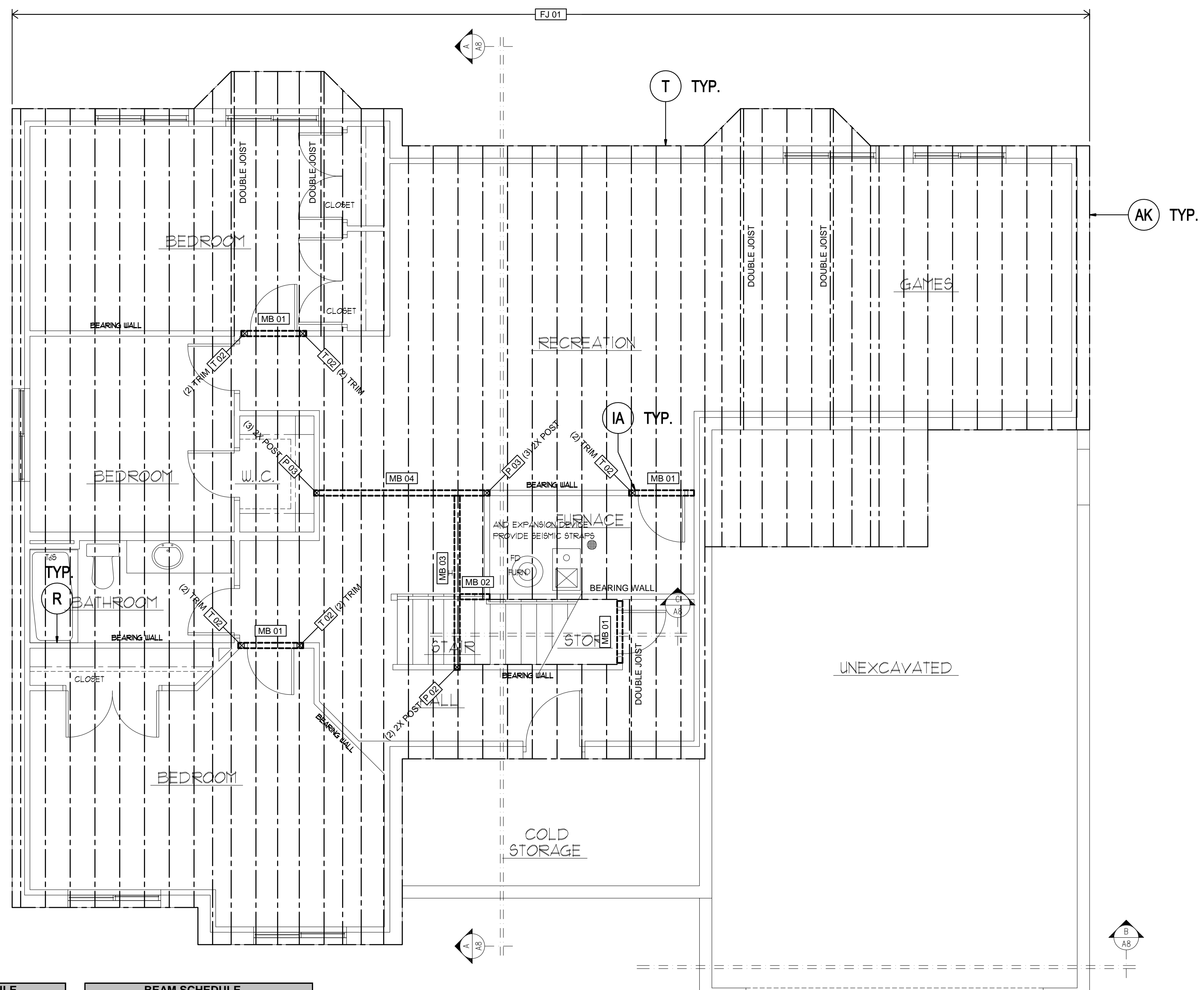
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**DAKOTA HOMES - CARLA**  
 RIVERTON UTAH  
**FOOTING & FOUNDATION PLAN**

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 SHEET **S1**

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## MAIN FLOOR FRAMING PLAN

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

SHEATHING SCHEDULE	
TYPE	THICKNESS
FLOOR	3/4" (48/24 SPAN RATING)
ROOF	7/16" (24/16 SPAN RATING)

1. SHEATHING PERPENDICULAR TO SUPPORTS.
2. FLOOR SHEATHING NAILED & GLUED TO SUPPORT.
3. 8d COMMON NAILS 6" O.C. (EDGES) 12" O.C. (FIELD)
4. NAILING NO CLOSER THAN 3/8" FROM PANEL EDGE.

POST SCHEDULE	
MARK	TYPE
P 02	(2)2X POST
P 03	(3)2X POST
P 04	(4)2X POST
P 06	4X6 POST
P 09	3.5X5.25 PSL
T 02	(2)TRIM

1. PARALLEL STRAND LUMBER (PSL) 1.8E
2. STEEL PIPE (PIPE STD) A53
3. STEEL HOLLOW SECTION (HSS) A500
4. STEEL COLUMNS REQUIRE BEARING PLATES
5. CONTINUE POSTS TO FDN / STRUCT MEMBER

BEAM SCHEDULE	
MARK	TYPE
MB 01	(2)2X6
MB 02	11.875" TJI 110
MB 03	11.875" TJI 110
MB 04	(2)1.75X9.5 LVL

1. DIMENSIONAL LUMBER DF#2 U.N.O.
2. LAMINATED VENEER LUMBER (LVL) 1.9E
3. GLUED-LAMINATED TIMBER (GLB) 24F-1.8E
4. STEEL W-SHAPES A992-50

FLOOR JOIST SCHEDULE	
MARK	TYPE
FJ 01	11.875" TJI 210 @ 16" O.C.

1. DIMENSIONAL LUMBER DF#2 U.N.O.

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UTAH

**DAKOTA HOMES - CARLA**

RIVERTON

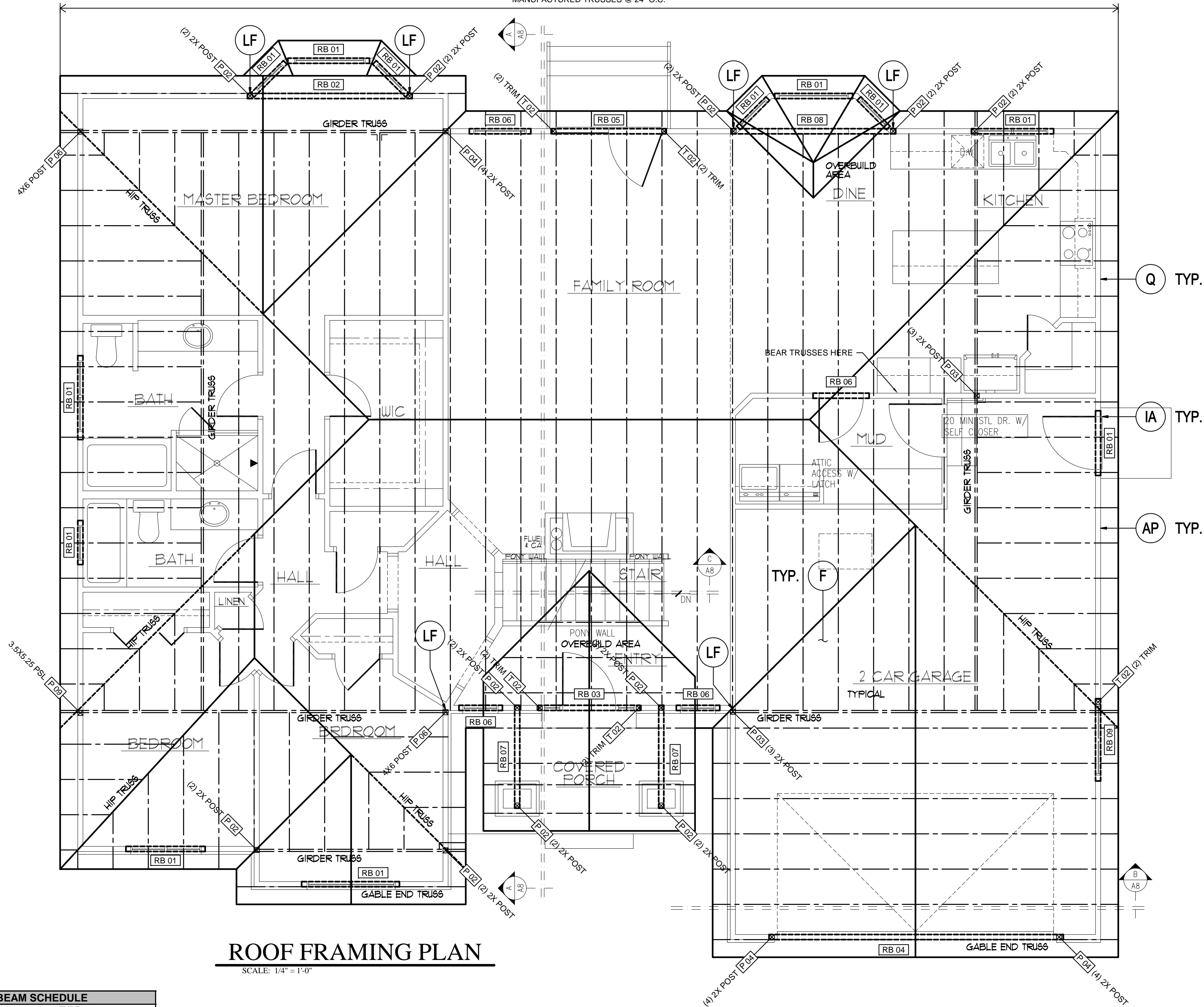
**MAIN FLOOR FRAMING PLAN**

DRAWN JLH
CHECKED KBH
DATE DECEMBER 2010
PLOTTED 12-20-2010
SCALE SEE PLAN
SHEET <b>S2</b>

FOR USE ON LOT 213 OF SCENIC COVE  
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MANUFACTURED TRUSSES @ 24" O.C.



### ROOF FRAMING PLAN

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

BEAM SCHEDULE	
MARK	TYPE
RB 01	(2)2X6
RB 02	(2)2X8
RB 03	(2)1.75X9.5 LVL
RB 04	(2)1.75X11.875 LVL
RB 05	(2)1.75X9.5 LVL
RB 06	(2)2X6
RB 07	(2)2X8
RB 08	(2)1.75X9.5 LVL
RB 09	(2)2X10

- DIMENSIONAL LUMBER DF#2 U.N.O.
- LAMINATED VENEER LUMBER (LVL) 1.9E
- GLUED-LAMINATED TIMBER (GLB) 24F-1.8E
- STEEL W-SHAPES A992-50

POST SCHEDULE	
MARK	TYPE
P 02	(2)2X POST
P 03	(3)2X POST
P 04	(4)2X POST
P 06	4X6 POST
P 09	3.5X5.25 PSL
T 02	(2)TRIM

- PARALLEL STRAND LUMBER (PSL) 1.8E
- STEEL PIPE (PIPE STD) A53
- STEEL HOLLOW SECTION (HSS) A500
- STEEL COLUMNS REQUIRE BEARING PLATES
- CONTINUE POSTS TO FDN / STRUCT MEMBER

XX SEE SHEETS S4 AND S5 FOR ALL STRUCTURAL DETAILS

SHEATHING SCHEDULE	
TYPE	THICKNESS
FLOOR	3/4" (48/24 SPAN RATING)
ROOF	7/16" (24/16 SPAN RATING)

- SHEATHING NAILED & GLUED TO SUPPORTS.
- FLOOR SHEATHING NAILED & GLUED TO SUPPORT.
- 8d COMMON NAILS 6" O.C. (EDGES) 12" O.C. (FIELD)
- NAILING NO CLOSER THAN 3/8" FROM PANEL EDGE.

WOOD TRUSS LOADS	
GROUND SNOW LOAD, $P_g = 44$ PSF	
FLAT ROOF SNOW LOAD = 30 PSF	
TOP CHORD DEAD LOAD = 10 PSF	
BOTTOM CHORD DEAD LOAD = 5 PSF	
1. DESIGN SNOW LOADS SHALL BE IN ACCORDANCE WITH ASCE 7-05 CHAP.7 (2009 IBC 1608.1)	

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DAKOTA HOMES - CARLA  
 RIVERTON  
 UTAH  
 ROOF FRAMING PLAN

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SCALE SEE PLAN
SHEET <b>S3</b>

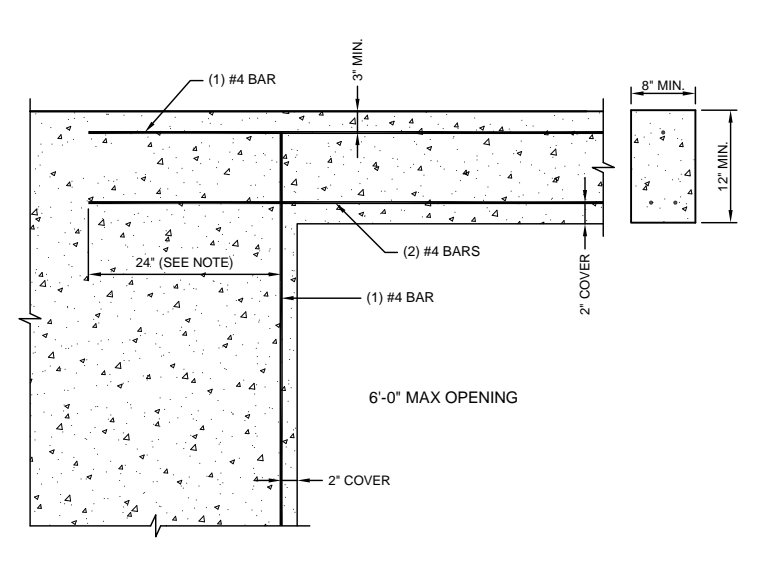
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ORIGINAL PROJECT #  
**821210**  
DRAWN BY:  
**LIS**  
CHECKED BY:  
**PRT**  
SCALE:  
**NTS**  
DATE:  
**20 DEC 2010**

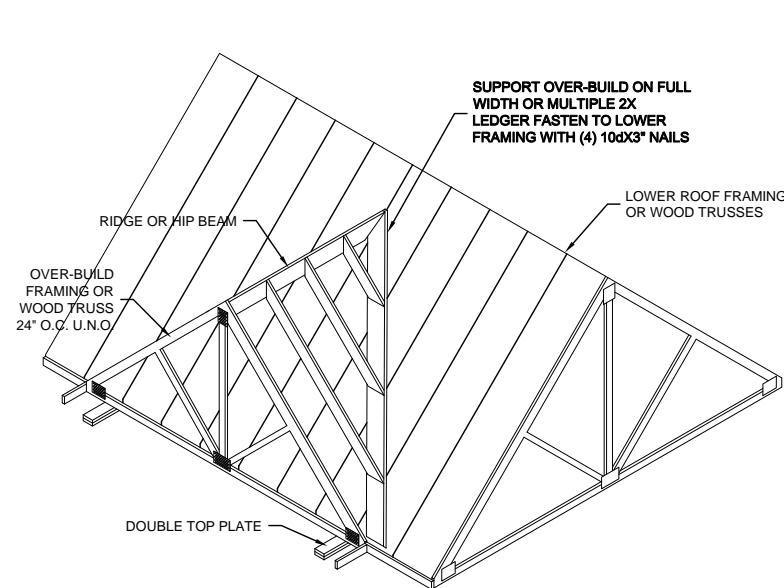
DAKOTA HOMES CARLA (SC213)

STRUCTURAL DETAILS

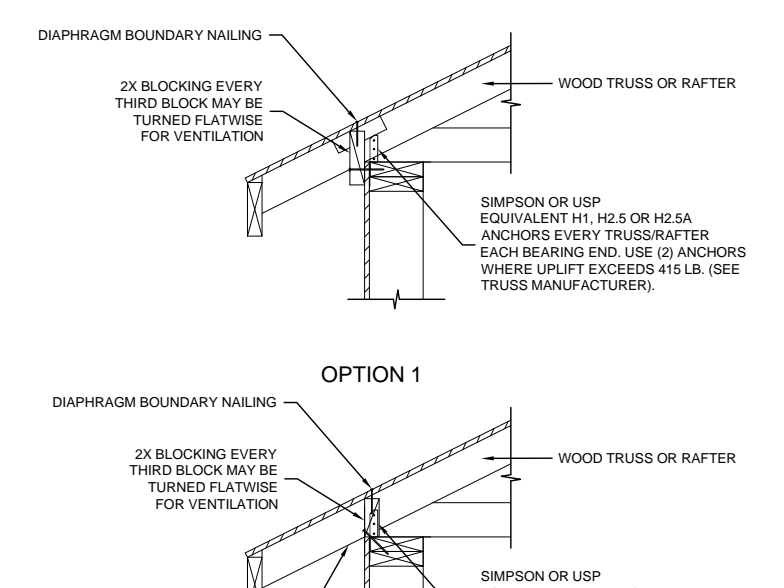
ISSUES / REVISIONS



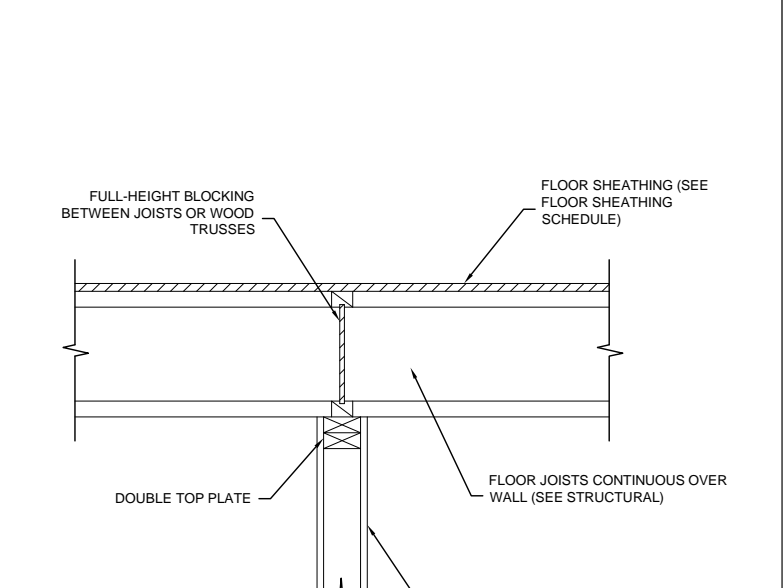
**E** FOUNDATION WALL - CONCRETE LINTEL  
NO SCALE



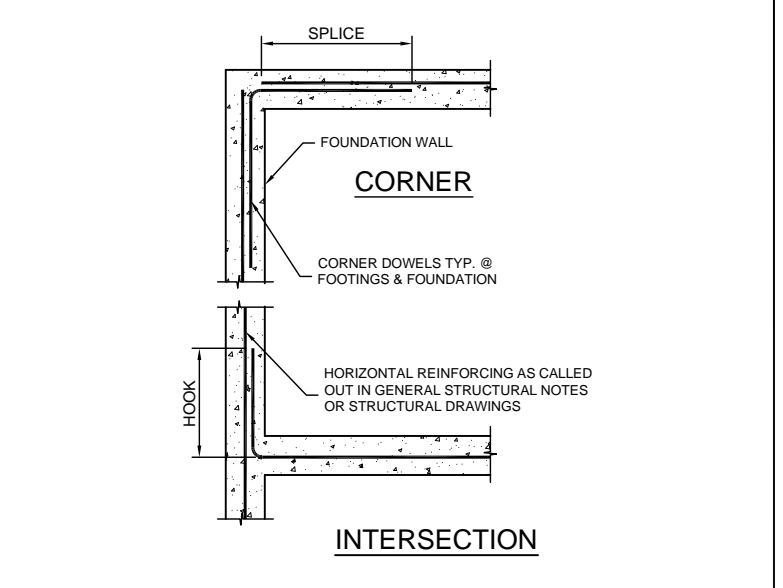
**F** ROOF FRAMING - OVER BUILD FRAMING  
NO SCALE



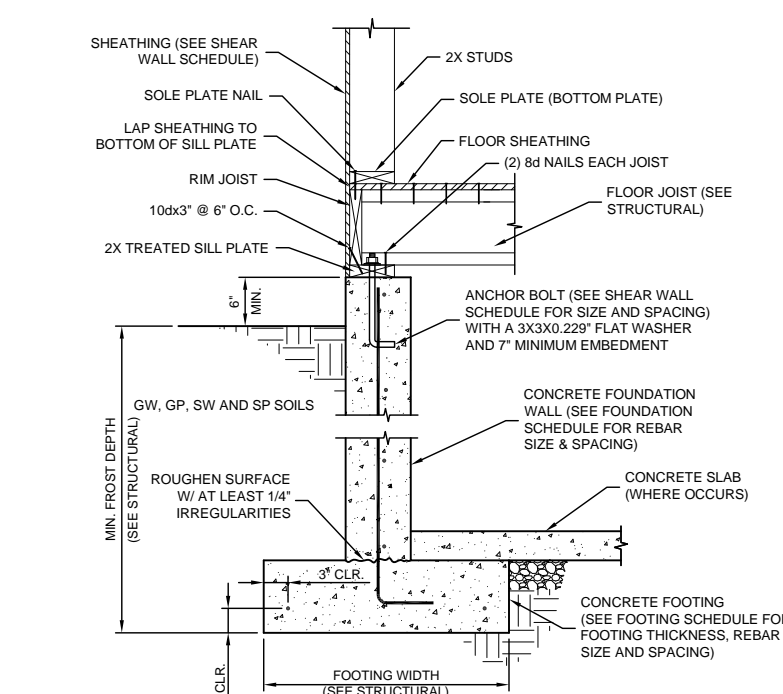
**Q** ROOF FRAMING - BLOCKING (150 PLF UNIT SHEAR)  
NO SCALE



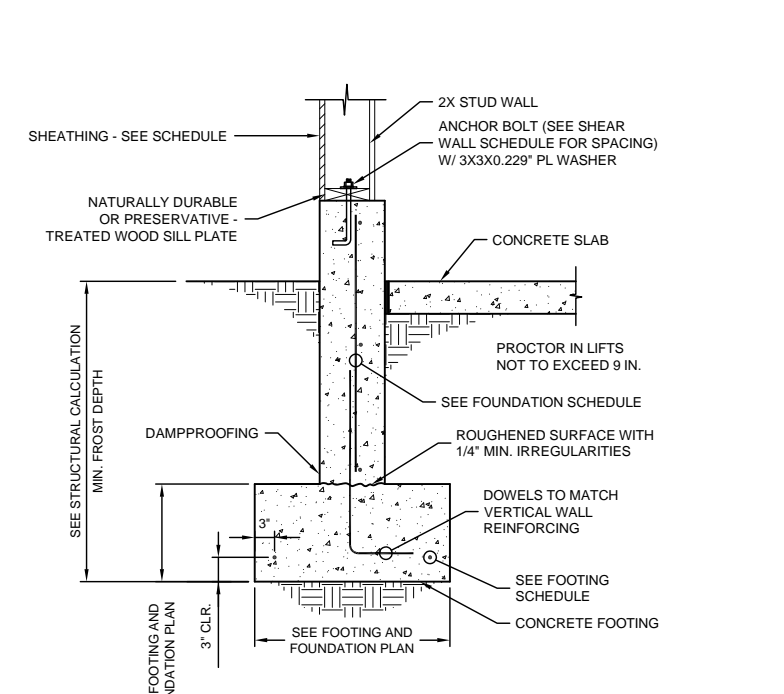
**R** BEARING WALL - INTERIOR TO FLOOR  
NO SCALE



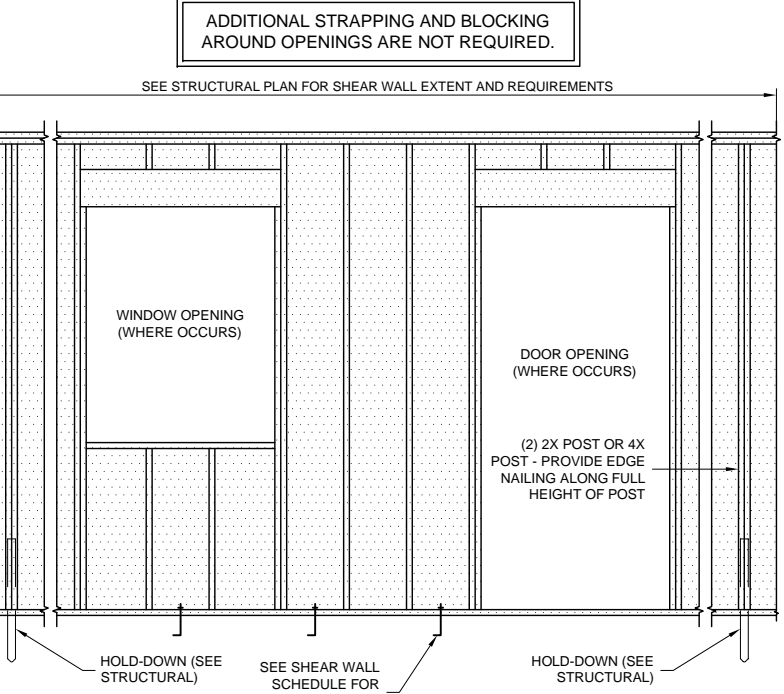
**S** FOUNDATION WALL - CORNER & INTERSECTION REINFORCING  
NO SCALE



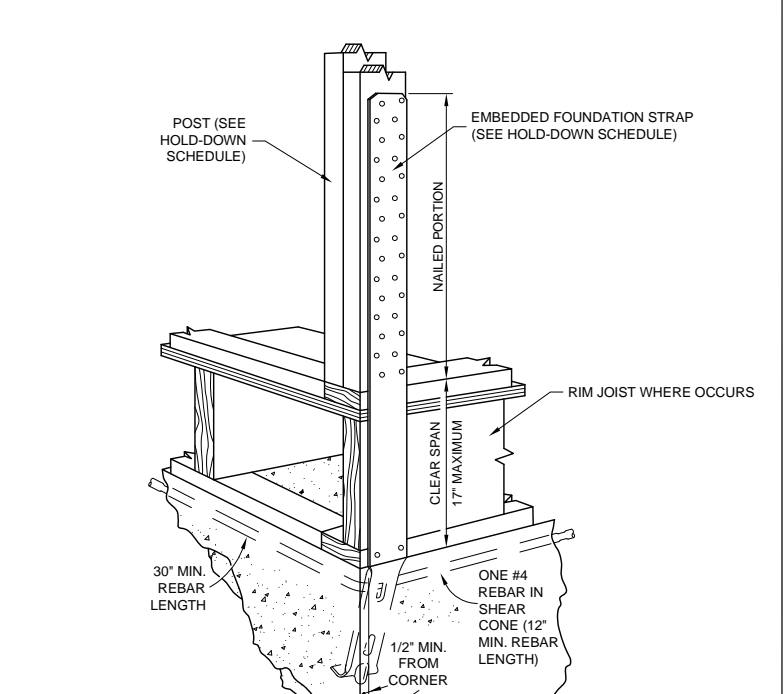
**T** FOUNDATION WALL - FLOOR JOIST (SUPPORTED) PERPENDICULAR  
NO SCALE



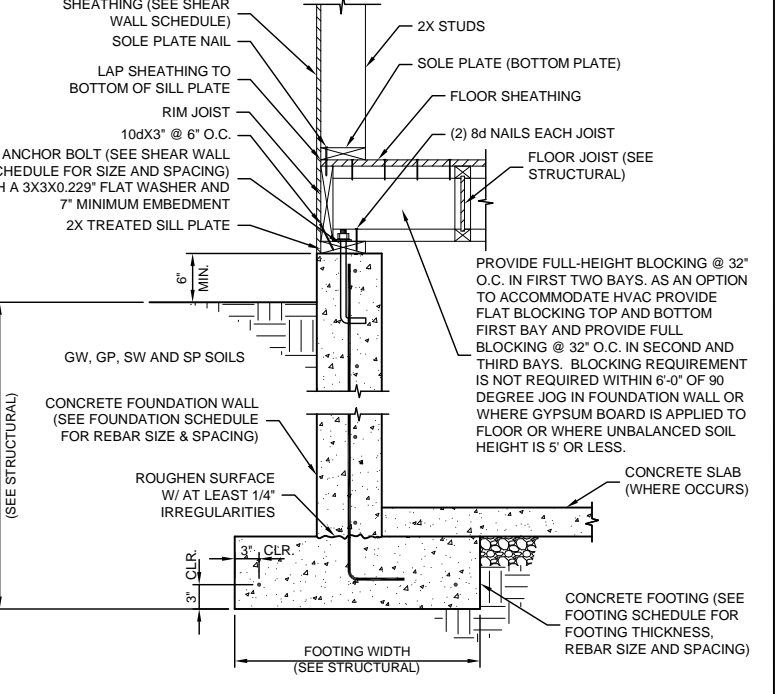
**V** FOUNDATION WALL - SLAB ON GRADE  
NO SCALE



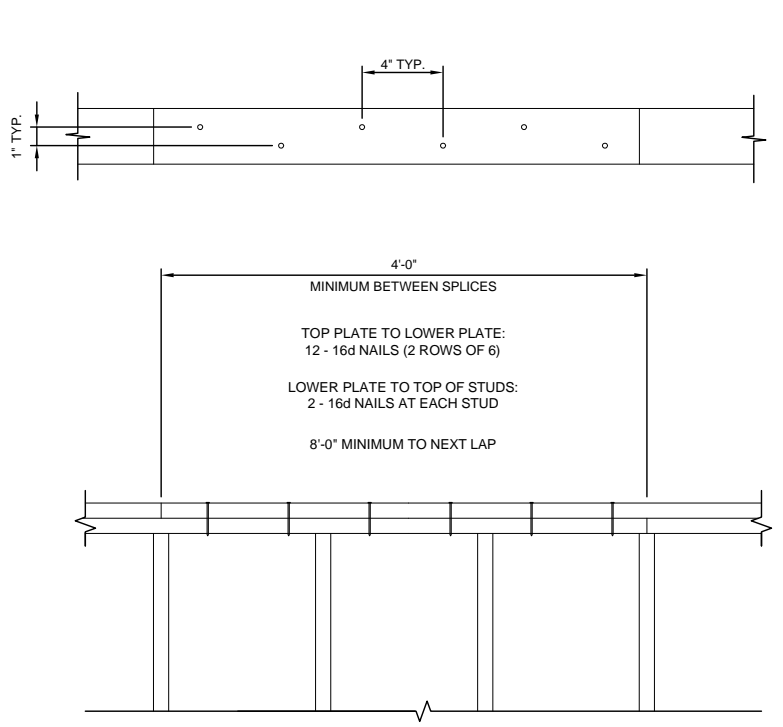
**Y** SHEAR WALL - PERFORATED  
NO SCALE



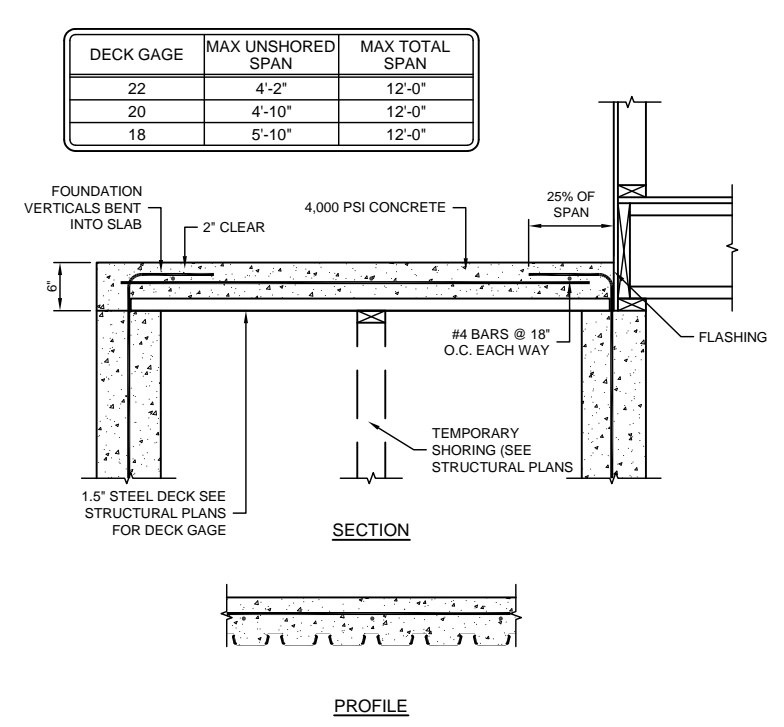
**AD** HOLD-DOWN - FOUNDATION STRAP  
NO SCALE



**AK** FOUNDATION WALL - FLOOR JOIST (SUPPORTED) PARALLEL  
NO SCALE



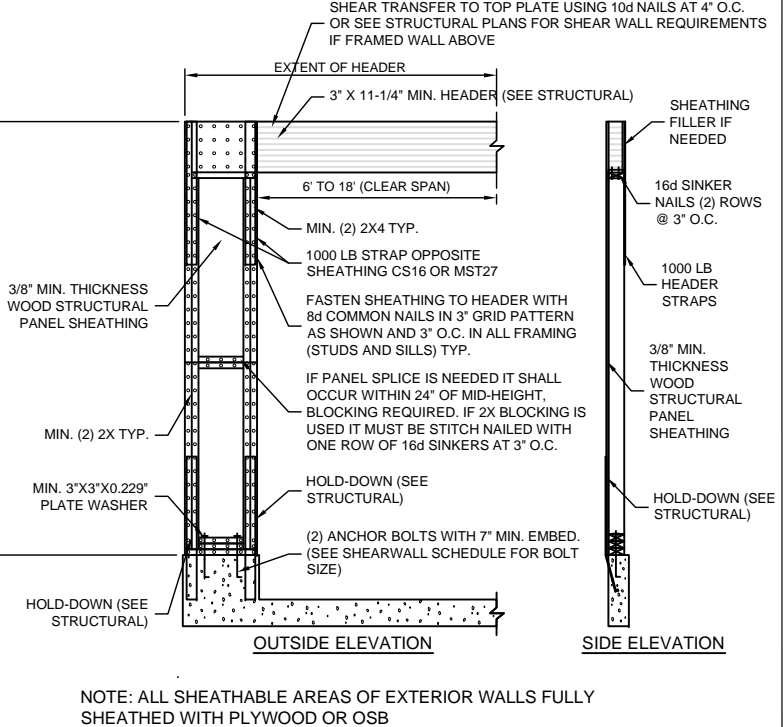
**AP** DIAPHRAGM - TOP PLATE SPLICE  
NO SCALE



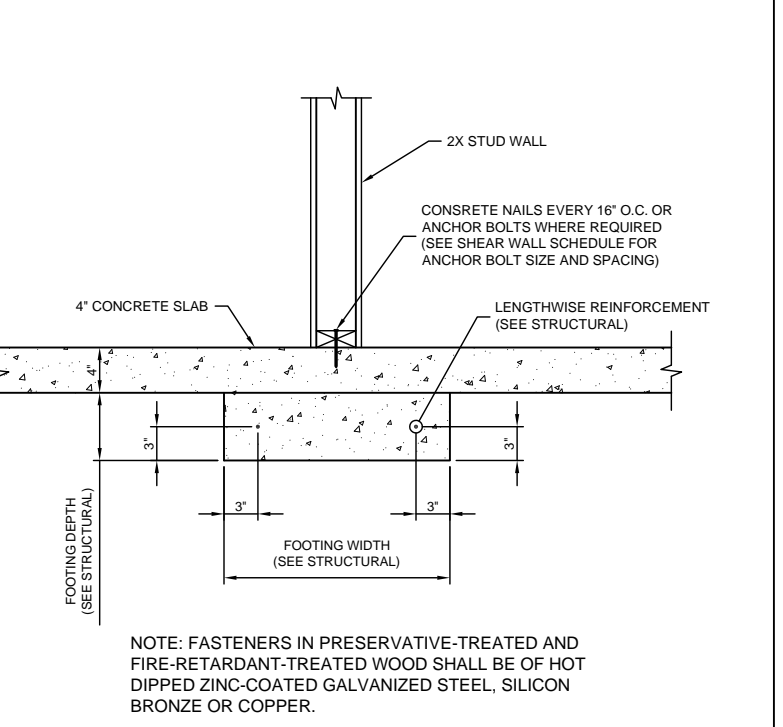
**AW** COMPOSITE SLAB - 6" SLAB/1.5" STEEL DECK  
NO SCALE

PENNY WEIGHT DESIGNATION	EQUIVALENT SPACING (INCHES)			
	COMMON NAIL	BOX NAIL	16 GAGE STAPLE	
6d	4	4	3 1/2	
	6	6	5	
	8	8	6 1/2	
	10	10	8 1/2	
	12	12	10	
	3	3	2	
8d	4	4	2 1/2	
	6	6	4	
	8	8	5 1/2	
	10	10	6 1/2	
	12	12	8	
	4	4	2	
10d	6	6	3 1/2	
	8	8	4 1/2	
	10	10	5 1/2	
	12	12	6 1/2	
	NOTES: 1. SPACING VALID FOR LATERAL LOAD ONLY. 7/16 STRUCTURAL II PLYWOOD OR OSB SHEATHING. 2. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH. 3. FASTENERS IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, SILICON BRONZE OR COPPER.			

**BP** SHEAR WALL - EQUIVALENT SHEATHING FASTENERS  
NO SCALE



**CJ** PORTAL FRAME - CONCRETE FOUNDATION  
NO SCALE

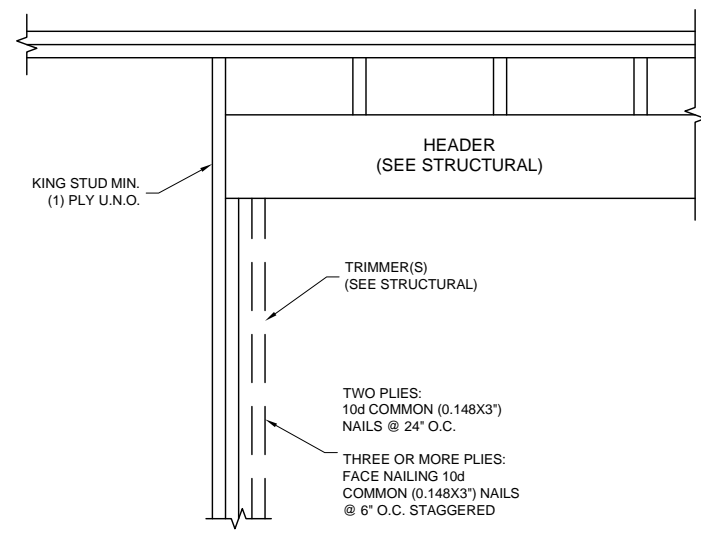


**CW** BEARING WALL - INTERIOR FOOTING  
NO SCALE

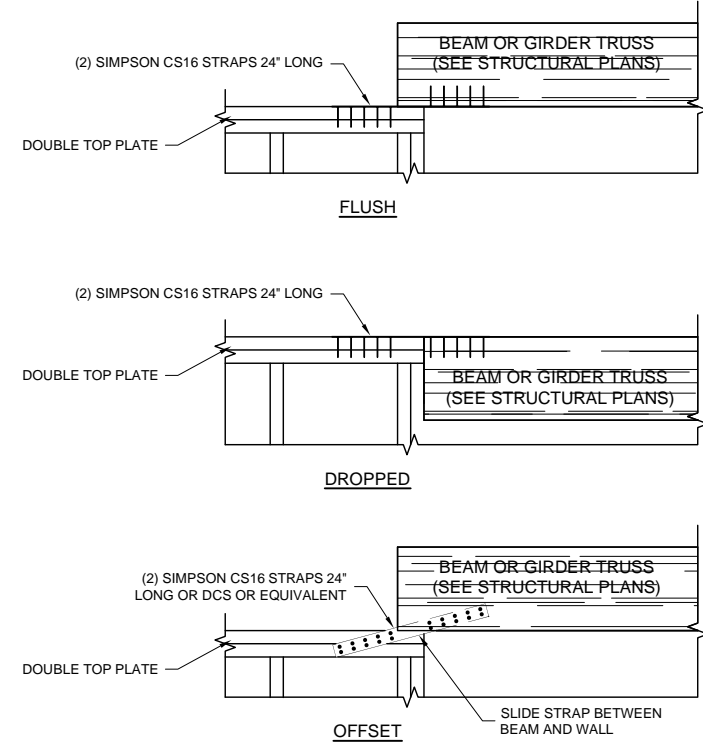
THESE STRUCTURAL DRAWINGS ARE BASED ON ARCHITECTURAL DRAWINGS. SEE CURRENT ISSUE OR REVISION DATE.

DIMENSIONS AND ELEVATIONS ARE SUPPLIED BY THE ARCHITECT. THEY MAY BE PROVIDED ON THE STRUCTURAL PLANS AND DETAILS FOR THE CONVENIENCE OF THE CONTRACTOR. VERIFY DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

ORIGINAL PROJECT #  
**821210**  
DRAWN BY:  
**LIS**  
CHECKED BY:  
**PRT**  
SCALE:  
**NTS**  
DATE:  
**20 DEC 2010**



**IA** WOOD BEAM - WALL HEADER FRAMING  
NO SCALE



**LF** DIAPHRAGM - CHORD / COLLECTOR STRAP  
NO SCALE

DAKOTA HOMES CARLA (SC213)

STRUCTURAL DETAILS

ISSUES / REVISIONS

NO.	DESCRIPTION	DATE

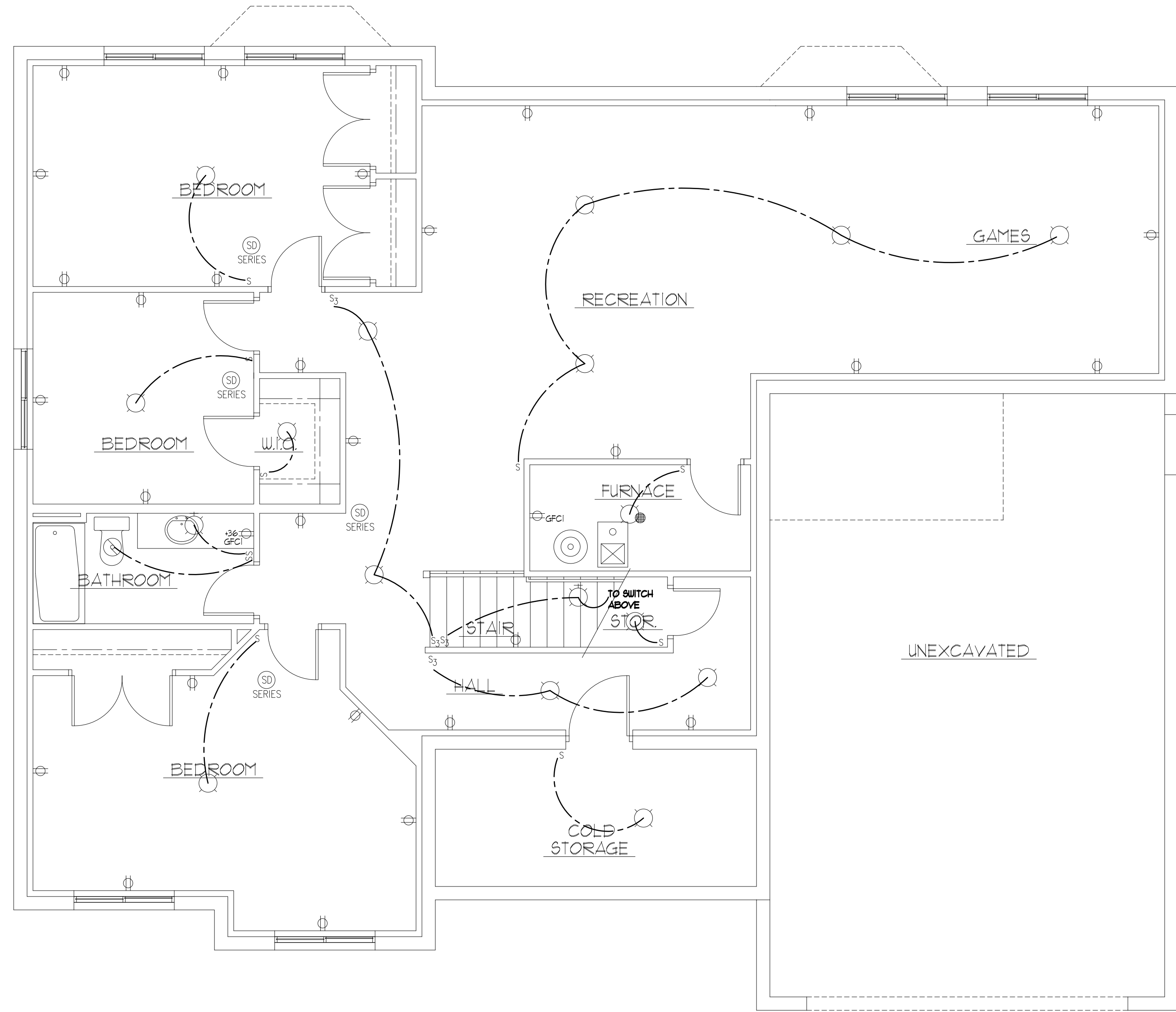




THESE DRAWINGS OR ANY PARTS THEREOF, AS INSTRUMENTS OF SERVICE, REMAIN THE PROPERTY OF THE ARCHITECTS AND MAY NOT BE REPRODUCED OR USED ON OTHER WORK WITHOUT THEIR WRITTEN CONSENT

- S SINGLE POLE SWITCH
- RS RECESS CAN SWITCH
- SS THREE WAY SWITCH
- SSS FOUR WAY SWITCH
- T TELEVISION
- PD PHONE / DATA
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- AFCI ARC FAULT CIRCUIT INTERRUPTER
- 110 110 OUTLET
- 220 220 OUTLET
- P PENDANT LIGHT
- R CAN LIGHT
- CEILING LIGHT
- WALL LIGHT
- NL NIGHT LIGHT
- SD SMOKE DETECTOR
- CO CO DETECTOR
- F FAN
- FAN LT. FAN & LIGHT COMBINATION
- CF CEILING FAN AND LIGHT
- ELECT. PANEL ELECTRICAL PANEL
- WIRING (SCHEMATIC ONLY)
- FL FLOURESCENT LIGHTING

- NOTE: ALL RECEPTACLES SERVING COUNTER-TOPS IN THE KITCHEN AND IN GARAGE, IN BATHS, ○ OUTSIDE GRADE LEVEL, AND UNFINISHED BASEMENTS NEED TO BE GFCI PROTECTED.
- NOTE: WIRING WITHIN 6' OF ATTIC ACCESS MUST HAVE LUMBER-GUARD STRIP.
- NOTE: ELECTRICAL IS SCHEMATIC ONLY VERIFY WITH CONTRACTOR AND OWNER
- NOTE: PROVIDE DIMMERS MASTER BEDROOM, TV ROOM AND SITTING ROOM LIGHTS
- COMBINATION ARC FAULTS PROTECTION REQUIRED AT ALL BEDROOM LIGHTS, SWITCHES, SMOKE DETECTORS, AND RECEPTACLES.
- NOTE: CAN LIGHTS ABOVE TUBS OR SHOWERS TO HAVE A GASKETED LENS (TYPICAL)
- NOTE: ALL EXTERIOR OUTLETS TO HAVE APPROVED BUBBLE COVERS.



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

**KEN FARRIS & ARCHITECT**  
3520 NORTH UNIVERSITY AVENUE SUITE #200 PROVO UT 84604 PHONE 801 377 6303

**UTAH**  
**DAKOTA HOMES - CARLA**  
RIVERTON  
**BASEMENT ELECTRICAL PLAN**

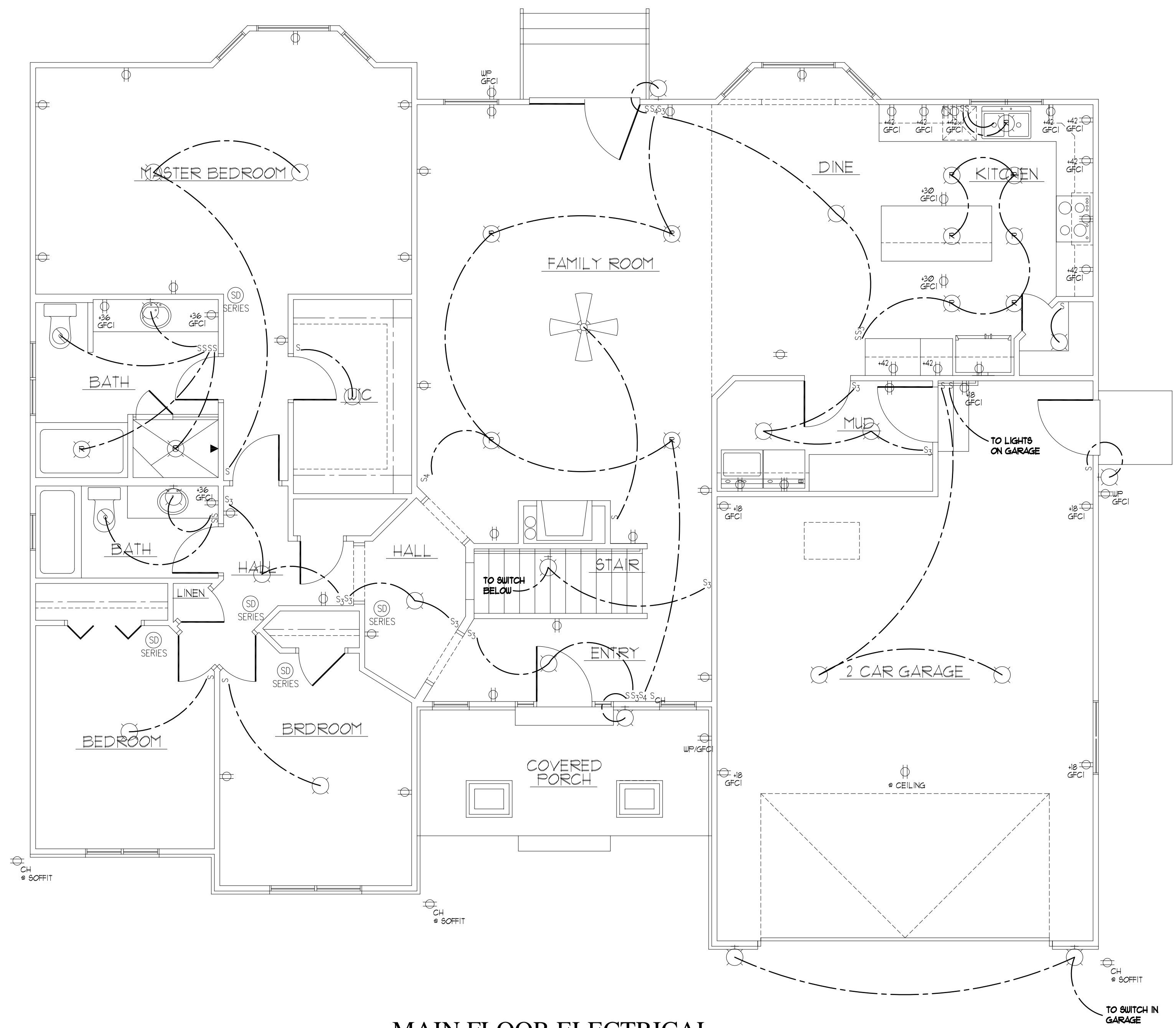
DRAWN JLH
CHECKED KBH
DATE DECEMBER 2010
PLOTTED 12-20-2010
SCALE SEE PLAN
SHEET
<b>E1</b>

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE

THESE DRAWINGS OR ANY PARTS THEREOF, AS INSTRUMENTS OF SERVICE, REMAIN THE PROPERTY OF THE ARCHITECTS AND MAY NOT BE REPRODUCED OR USED ON OTHER WORK WITHOUT THEIR WRITTEN CONSENT

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**MAIN FLOOR ELECTRICAL**  
SCALE: 1/4" = 1'-0"

  
**KEN FARRIS & ARCHITECT**  
 3520 NORTH UNIVERSITY AVENUE SUITE #200 PROVO UT 84604 PHONE 801 377 6303

**UTAH**  
**DAKOTA HOMES - CARLA**  
**RIVERTON**  
**MAIN FLOOR ELECTRICAL**

DRAWN JLH
CHECKED KBH
DATE DECEMBER 2010
PLOTTED 12-20-2010
SCALE SEE PLAN
SHEET
E2

FOR USE ON LOT 213 OF SCENIC COVE  
11952 So. SCENIC ACERS DRIVE