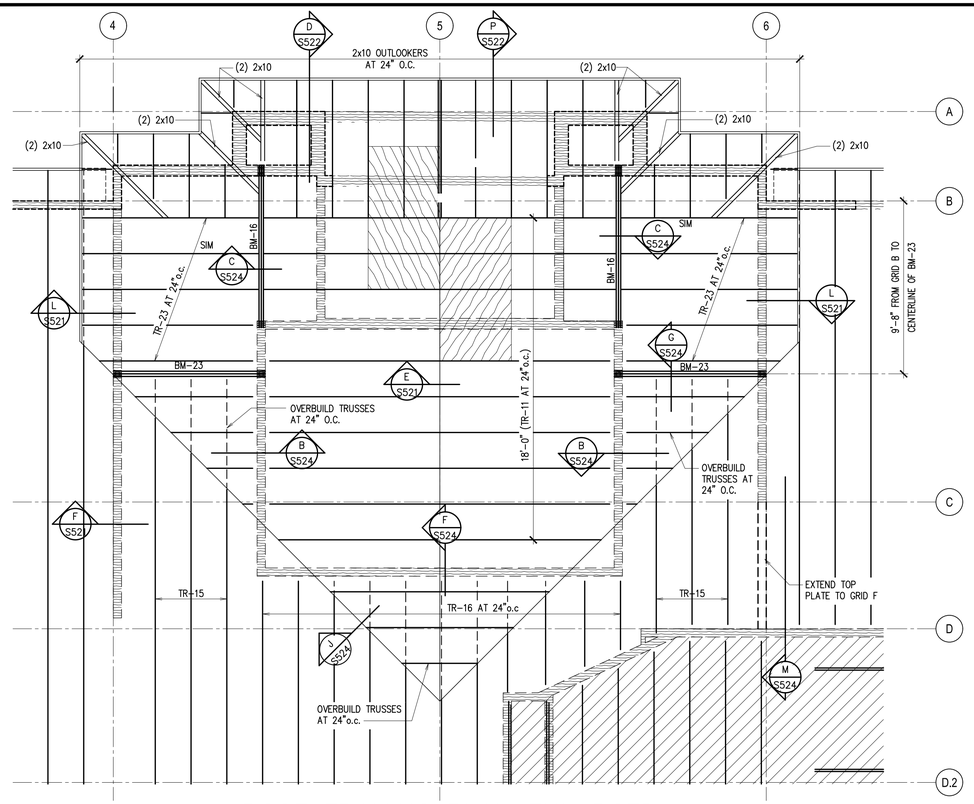
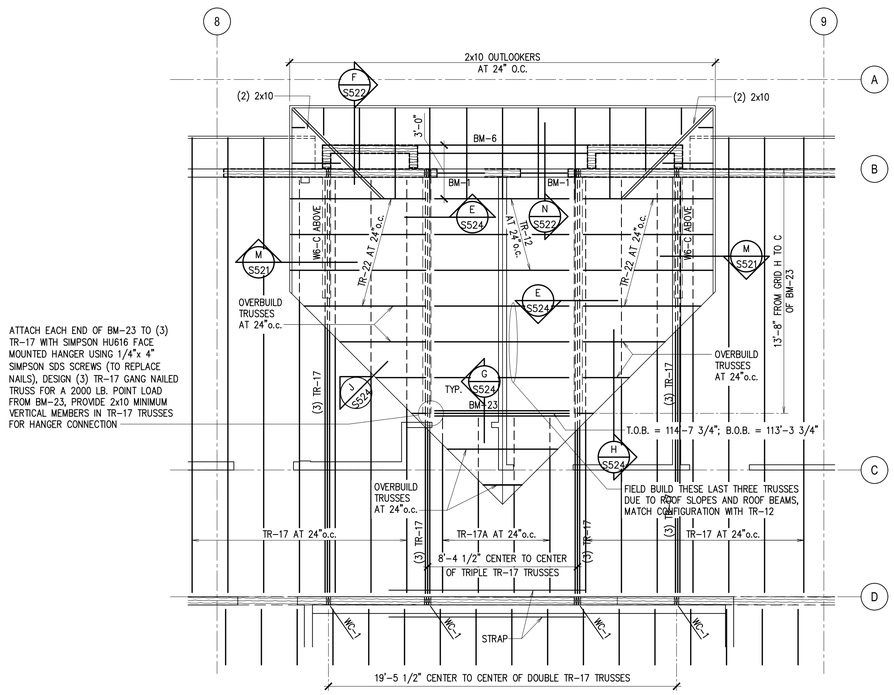
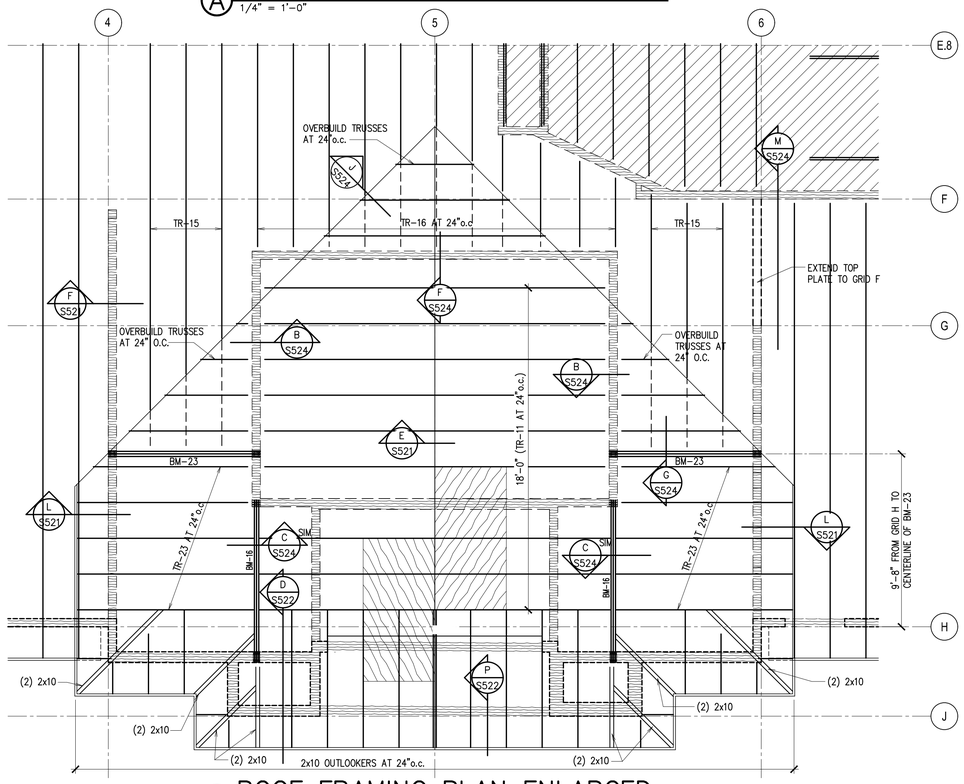


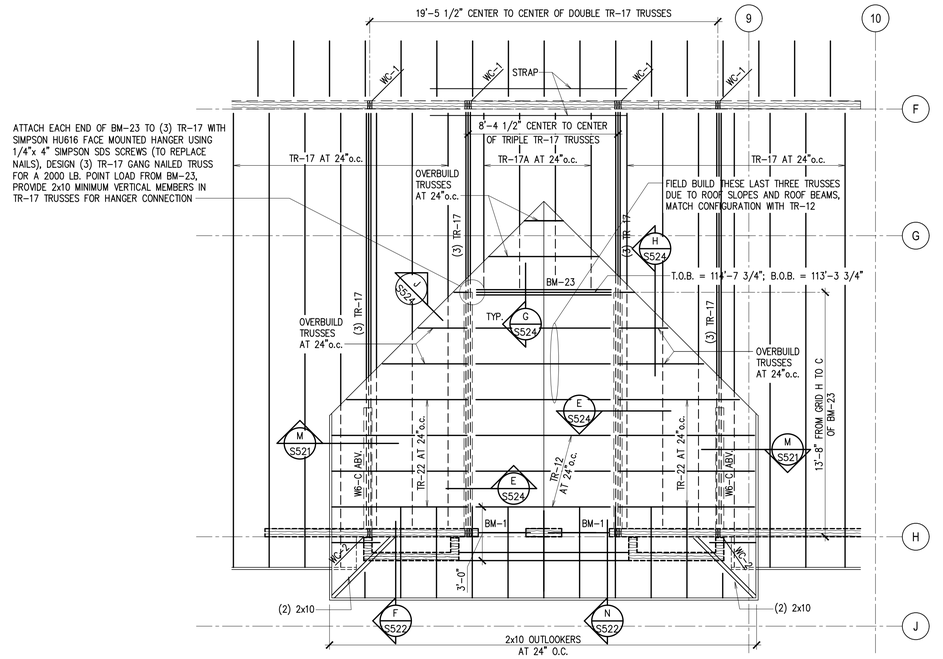
A ROOF FRAMING PLAN ENLARGED
1/4" = 1'-0"



B ROOF FRAMING PLAN ENLARGED
1/4" = 1'-0"



C ROOF FRAMING PLAN ENLARGED
1/4" = 1'-0"



D ROOF FRAMING PLAN ENLARGED
1/4" = 1'-0"

Architect / Engineer:
ARW ENGINEERS
structural consultants
1584 W. Park Dr. Ogden, Utah 84404
ph. 801.782.8008 fx. 801.782.4656

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3033
F 801.394.3064

Stamp:
STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

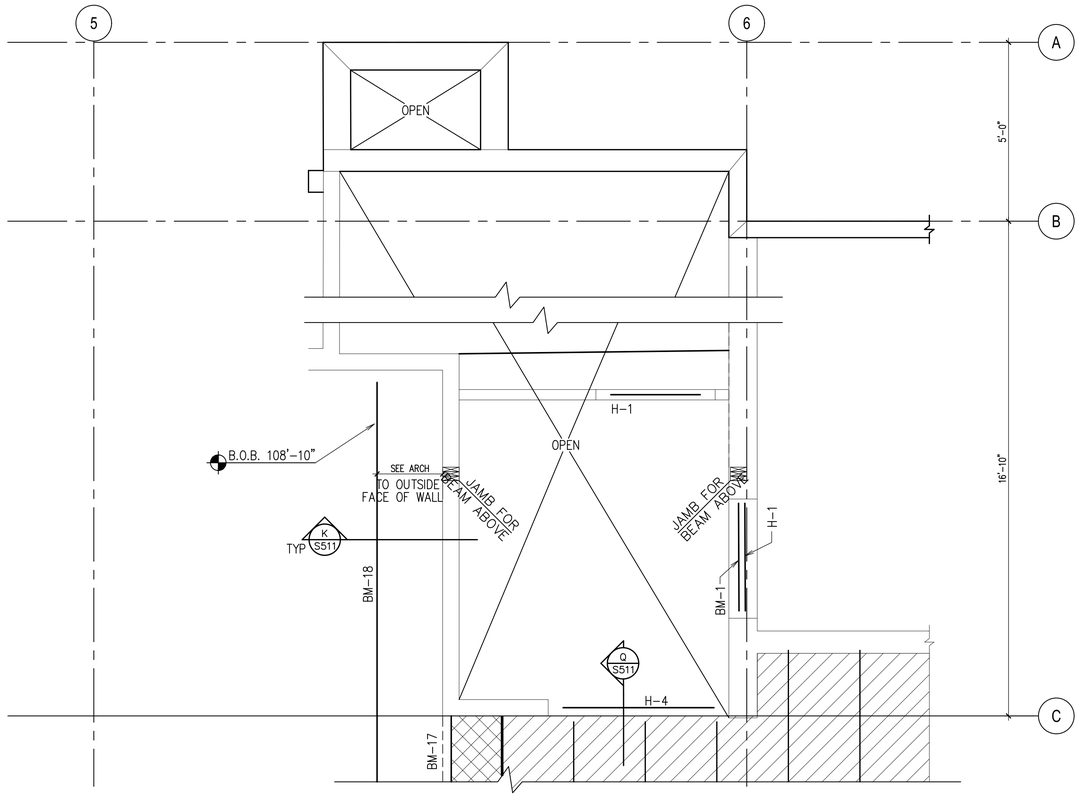
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DD/MM/YY)	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
28-JUL-17		BID SET

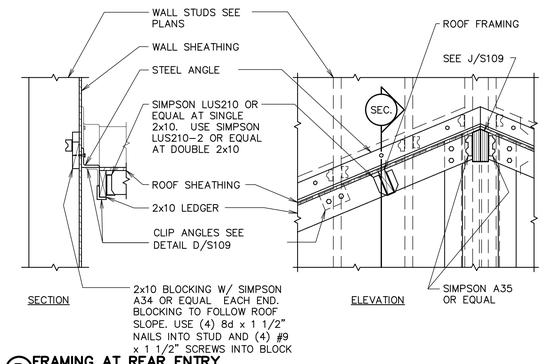
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ROOF FRAMING PLAN

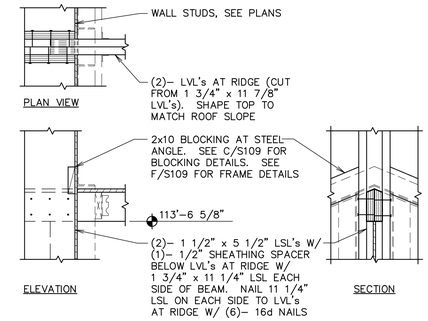
Sheet: S108



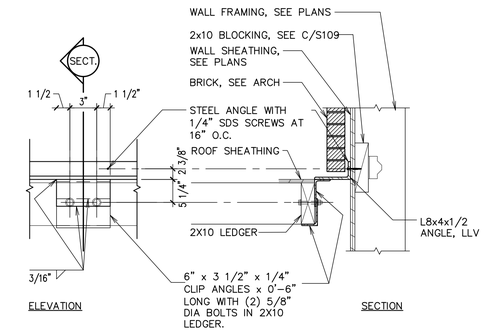
A EQUIPMENT PLATFORM PLAN
3/8" = 1'-0"



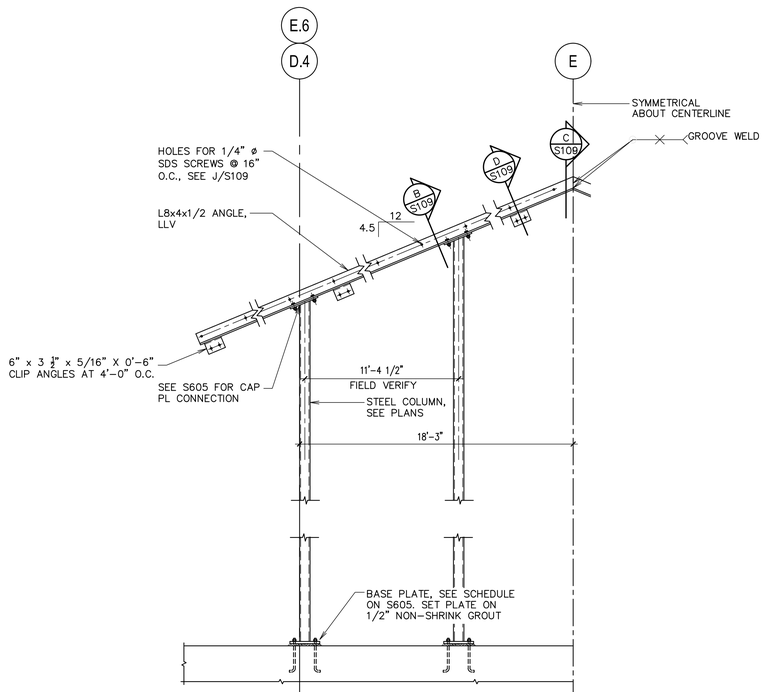
B FRAMING AT REAR ENTRY
NO SCALE



C RIDGE CONNECTION AT HIGH WALL
NO SCALE



D CLIP ANGLES AT REAR ENTRY
NO SCALE



E FRAME TO SUPPORT BRICK VENEER AT REAR ENTRY
1/2" = 1'-0"

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.782.8008 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
F. 801.394.3064
BOTT PANTONE ARCHITECTS

Stamp:
STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

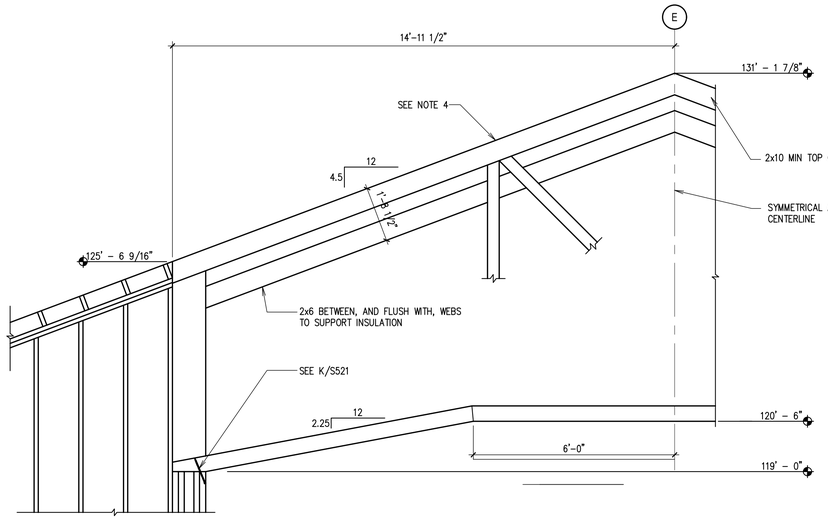
Mark	Date (DAY)	Description
-	-	28-JUL-17 BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: DETAILS

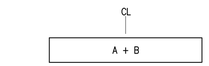
Sheet: S109

TRUSS 1					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	40	7'-3"	10

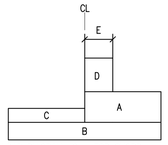


1 TR-1 TRUSS ELEVATION (3-PLY)
NO SCALE

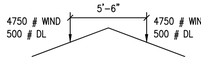
TR-1 LOAD DIAGRAMS



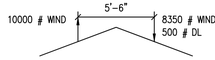
LOAD DIAGRAM #1 - TOP CHORD



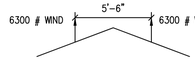
LOAD DIAGRAM #2 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.



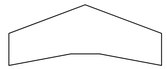
LOAD DIAGRAM #3 - TOP CHORD
WIND IN LONG DIRECTION

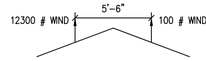


LOAD DIAGRAM #4 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.
WIND IN SHORT DIRECTION

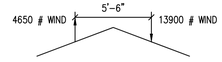


LOAD DIAGRAM #5 - TOP CHORD
WIND IN LONG DIRECTION

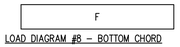




LOAD DIAGRAM #6 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.
WIND DIAGONAL



LOAD DIAGRAM #7 - TOP CHORD
WIND DIAGONAL



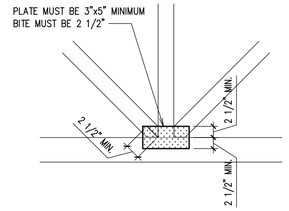
LOAD DIAGRAM #8 - BOTTOM CHORD

TR-1 TRUSS NOTES:
1. SEE THIS SHEET FOR GENERAL TRUSS NOTES.
2. TRUSS TO BE (3) PLY.
3. WIND LOADS ARE ASD LOADS.

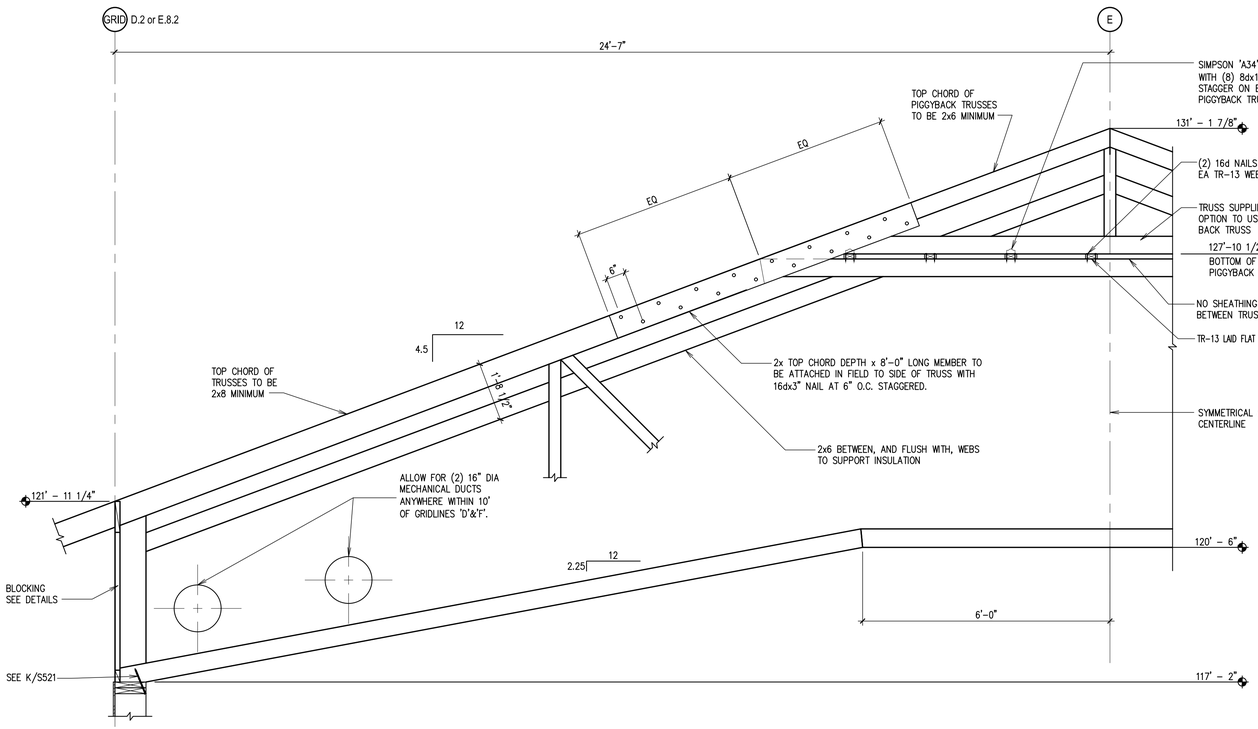
COMBINATION LOAD 1: DIAGRAMS 1,3,8
COMBINATION LOAD 2: DIAGRAMS 1,4,8
COMBINATION LOAD 3: DIAGRAMS 1,5,8
COMBINATION LOAD 4: DIAGRAMS 1,6,8
COMBINATION LOAD 5: DIAGRAMS 1,7,8
COMBINATION LOAD 6: DIAGRAMS 2,3,8
COMBINATION LOAD 7: DIAGRAMS 2,4,8
COMBINATION LOAD 8: DIAGRAMS 2,5,8
COMBINATION LOAD 9: DIAGRAMS 2,6,8
COMBINATION LOAD 10: DIAGRAMS 2,7,8

TR-1 GIRDER LOAD COMBINATIONS

GENERAL TRUSS NOTES:
1. TRUSS WEBS ARE NOT SHOWN, SEE TRUSS SUPPLIER DRAWINGS FOR TRUSS CONFIGURATION.
2. 2x6 MEMBERS SUPPORTING INSULATION MAY BE ATTACHED TO THE TRUSS WEB MEMBERS USING PRESS PLATES, STAPLES, OR TOE NAILS DESIGNED TO SUPPORT THE INSULATION AND HANGING LOADS. PRESS PLATES DO NOT NEED TO BE OVERSIZED PER CHURCH SPECIFICATION.
3. LOAD COMBINATIONS SHOWN ARE IN ADDITION TO THE IBC WIND AND SEISMIC LOAD COMBINATIONS. ALL TRUSSES SHALL BE DESIGNED PER LOAD COMBINATIONS SPECIFIED IN IBC SECTION 1605. WIND LOADS LISTED ARE ULTIMATE LOADS.
4. FRAMER TO INCLUDE AN ALLOWANCE FOR TRUSS BRACING THAT WILL BE DESIGNED BY THE TRUSS MANUFACTURER.
5. LIMIT TOTAL LOAD DEFLECTION TO L/240. LIMIT LIVE LOAD DEFLECTION TO L/360.
6. SPLICES IN TOP AND BOTTOM CHORDS TO OCCUR AT TRUSS JOINTS.
7. SEISMIC LOADS DO NOT CONTROL DESIGN.



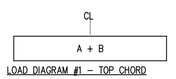
3 GUSSET TO TRUSS SCHEMATIC
NO SCALE



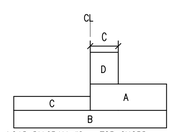
2 TR-2 TRUSS ELEVATION
NO SCALE

TR-1 TRUSS NOTES:
1. SEE THIS SHEET FOR GENERAL TRUSS NOTES.

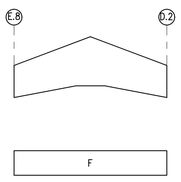
TR-2 LOAD DIAGRAM



LOAD DIAGRAM #1 - TOP CHORD



LOAD DIAGRAM #2 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.



LOAD DIAGRAM #3 - BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1,3
COMBINATION LOAD 2: DIAGRAMS 2,3

TR-2 LOAD COMBINATIONS

TRUSS 2					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	45	8'-3"	10

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. (801) 487-0090 fx. (801) 487-4856
620 24TH STREET
OGDEN, UTAH 84401
P. (801) 394-3053
F. (801) 394-3064

BOTT PANTONE ARCHITECTS

Stamp:
STATE OF UTAH - LICENSED STRUCTURAL ENGINEER - PROFESSIONAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

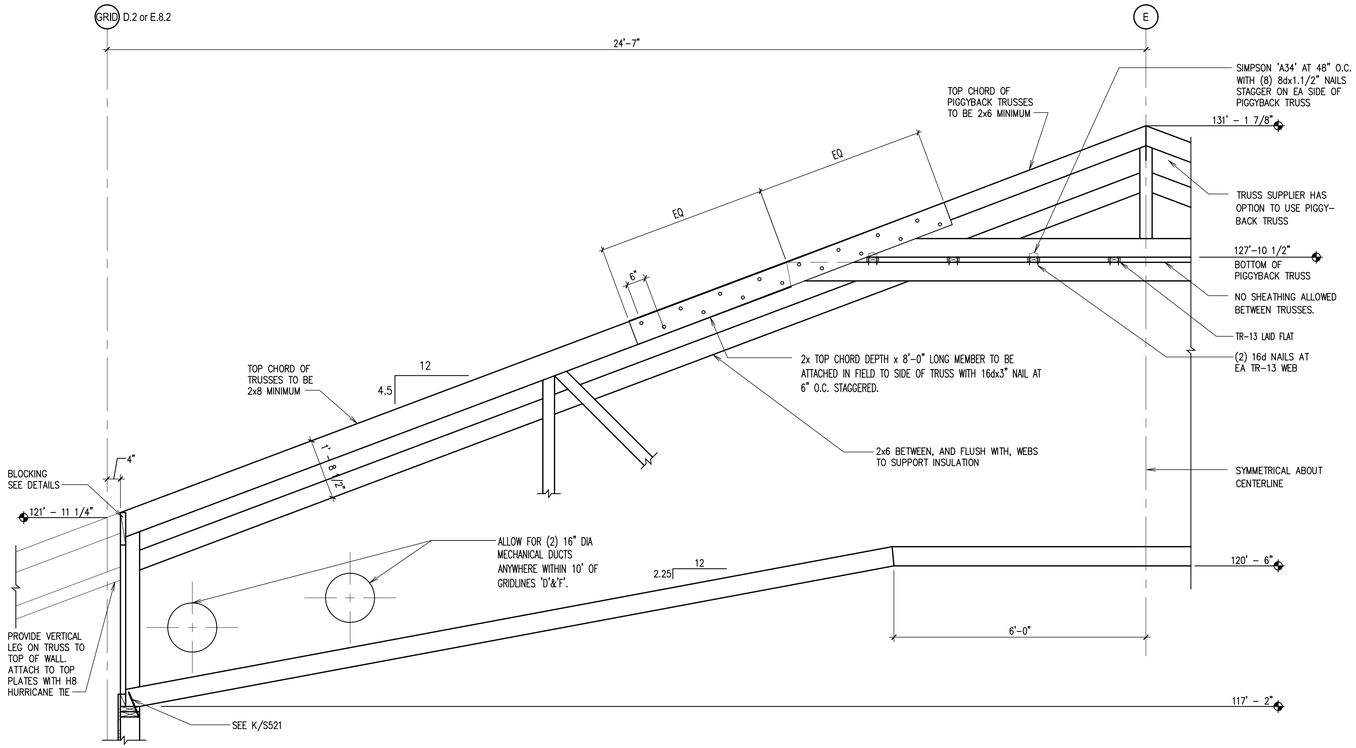
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
28-JUL-17	-	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S201

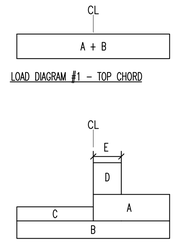


1 TR-3 TRUSS ELEVATION
NO SCALE

TRUSS 3					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	45	8'-3"	10

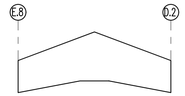
TR-3 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES.

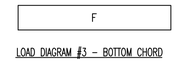
TR-3 LOAD DIAGRAM



LOAD DIAGRAM #1 - TOP CHORD

LOAD DIAGRAM #2 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.

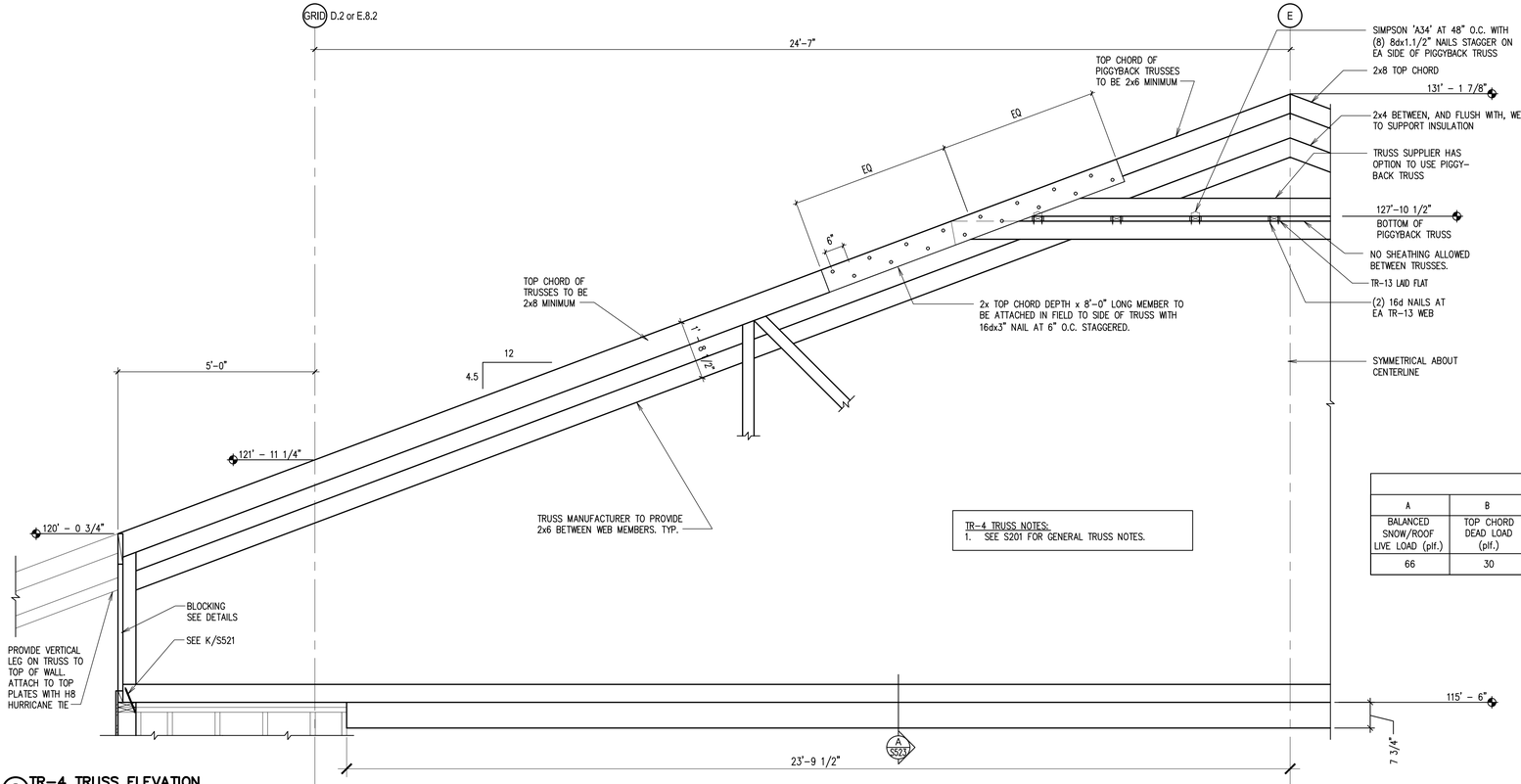




LOAD DIAGRAM #3 - BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1,3
COMBINATION LOAD 2: DIAGRAMS 2,3

TR-3 LOAD COMBINATIONS

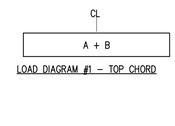


2 TR-4 TRUSS ELEVATION
NO SCALE

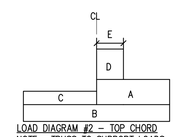
TR-4 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES.

TRUSS 4					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	45	8'-3"	10

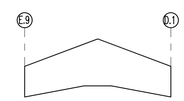
TR-4 LOAD DIAGRAM

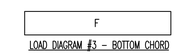


LOAD DIAGRAM #1 - TOP CHORD

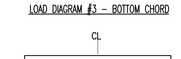


LOAD DIAGRAM #2 - TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.

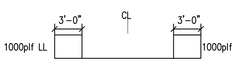




LOAD DIAGRAM #3 - BOTTOM CHORD

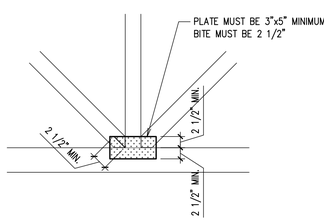


LOAD DIAGRAM #4 - BOTTOM CHORD



LOAD DIAGRAM #5 - BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1,3,4
COMBINATION LOAD 2: DIAGRAMS 1,3,5
COMBINATION LOAD 3: DIAGRAMS 2,3,4
COMBINATION LOAD 4: DIAGRAMS 2,3,5
TR-4 LOAD COMBINATIONS



3 GUSSET TO TRUSS SCHEMATIC
NO SCALE

Architect / Engineer:
ENGINEERS
structural consultants
1584 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6000 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
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Stamp:
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STATE OF UTAH

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Project for:
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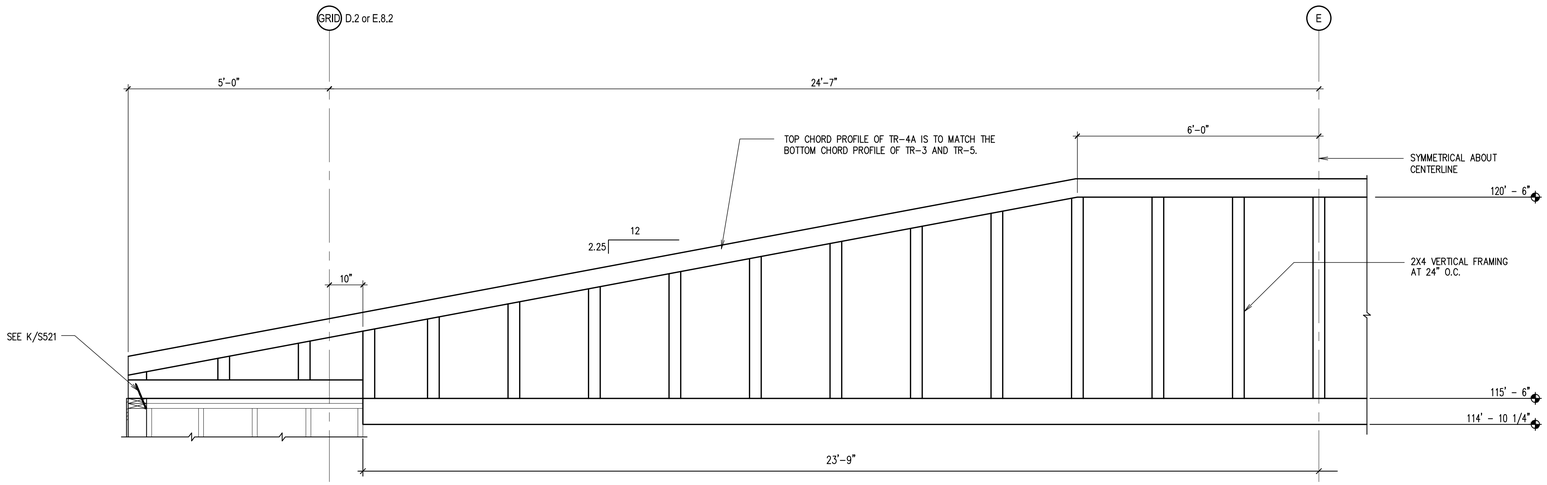
Mark	Date (DD/MM/YY)	Description
28-JUL-17	BID SET	

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

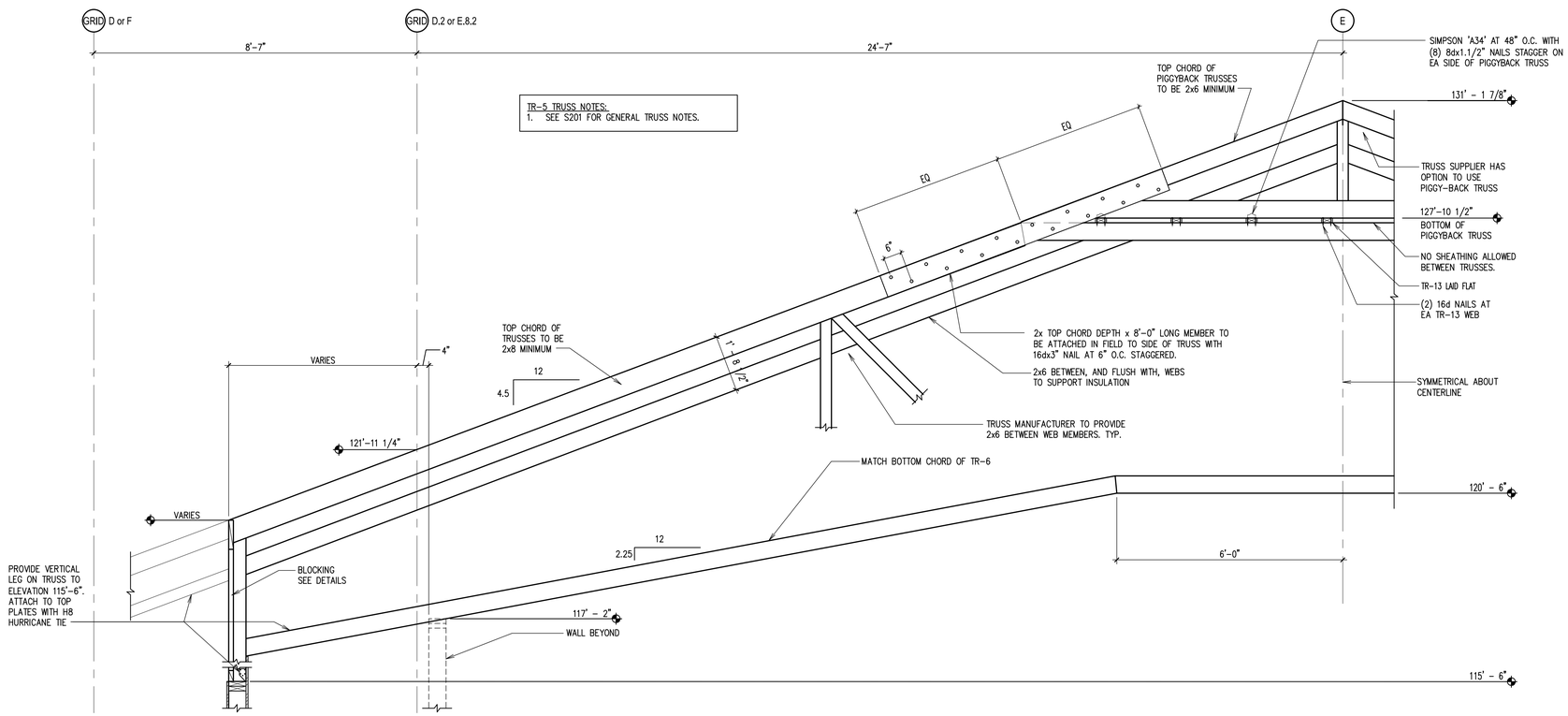
Sheet Title: TRUSS ELEVATIONS

Sheet: S202



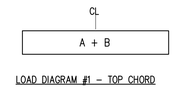
1 TR-4A TRUSS ELEVATION
NO SCALE

TR-4A TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES.
2. TR-4A HAS NO APPLIED GRAVITY LOADS AND DOES NOT SUPPORT INSULATION.
3. SEE A/S523 FOR CONNECTION OF TR-4A TO TR-4.

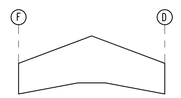


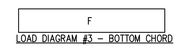
2 TR-5 TRUSS ELEVATION
NO SCALE

TR-6 LOAD DIAGRAM

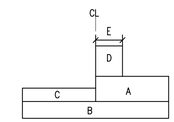


LOAD DIAGRAM #1 – TOP CHORD





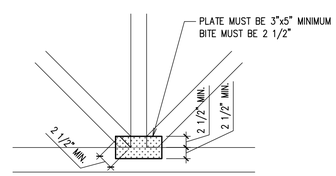
LOAD DIAGRAM #3 – BOTTOM CHORD



LOAD DIAGRAM #2 – TOP CHORD
NOTE: TRUSS TO SUPPORT LOADS AS SHOWN AND AS MIRRORED.

COMBINATION LOAD 1: DIAGRAMS 1,3
COMBINATION LOAD 2: DIAGRAMS 2,3
TR-6 LOAD COMBINATIONS

TRUSS 5					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	55	9'-9"	10



3 GUSSET TO TRUSS SCHEMATIC
NO SCALE

Architect / Engineer:
ENGINEERS
structural consultants
1584 W. Park Cir. Ogden, Utah 84404
ph. 801.782.8008 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
801.394.3013
F 801.394.3064

Stamp:
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

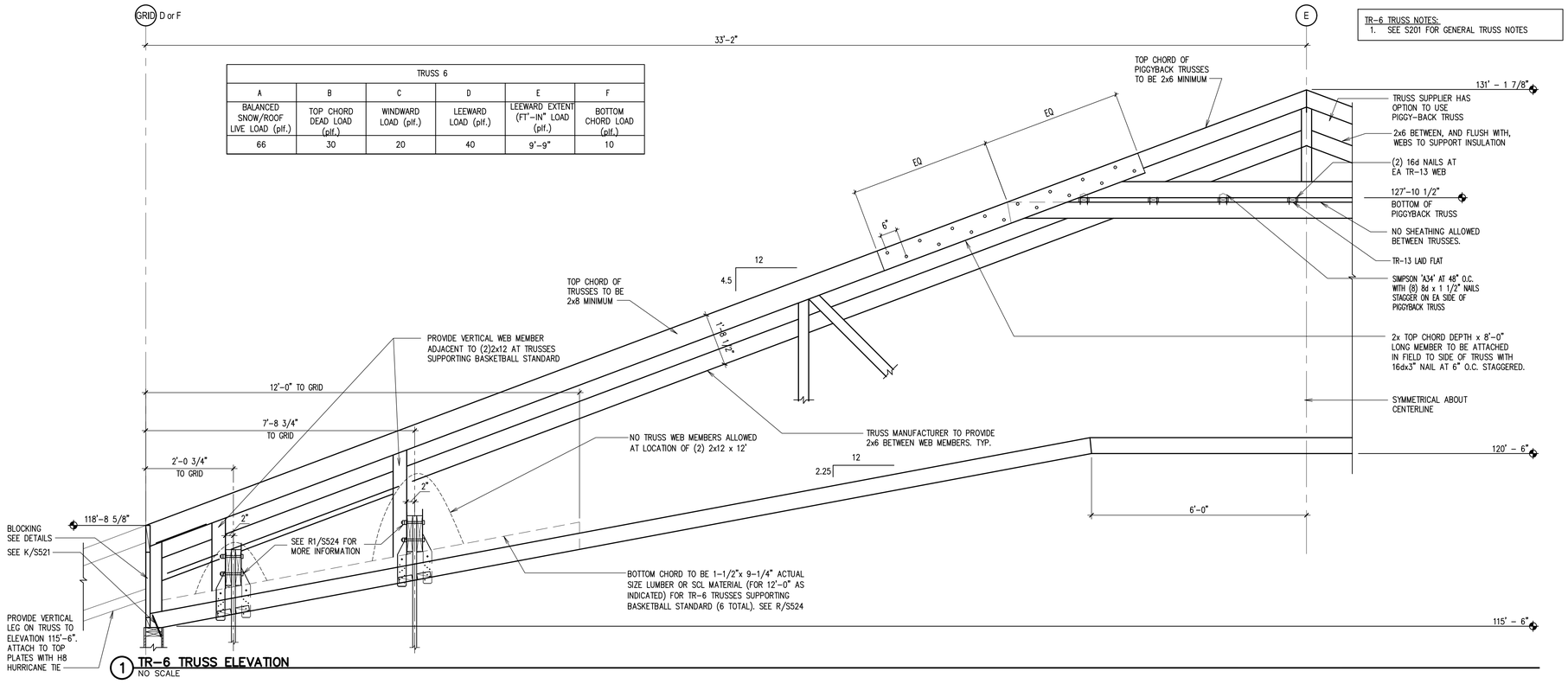
Mark	Date (DMY)	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
28-JUL-17		BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S203

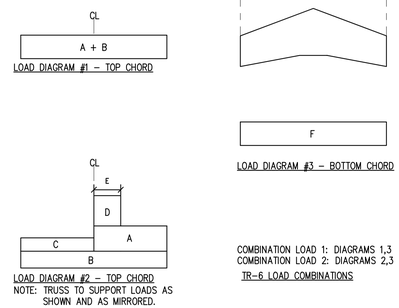
TRUSS 6					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	20	40	9'-9"	10



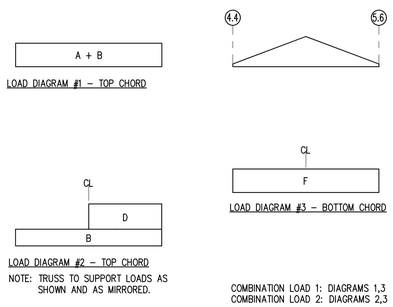
1 **TR-6 TRUSS ELEVATION**
NO SCALE

TR-6 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES

TR-6 LOAD DIAGRAM

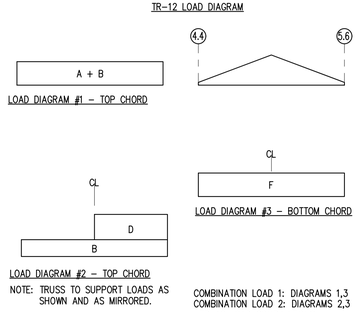


TR-11 LOAD DIAGRAM

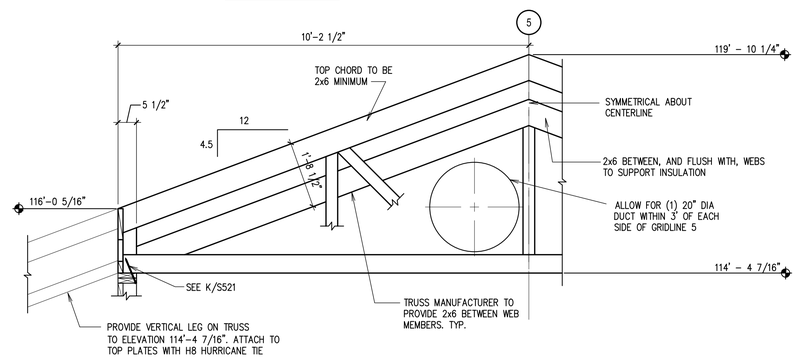


TR-11 AND TR-12 TRUSS NOTES:
(SEE S201 FOR GENERAL TRUSS NOTES)

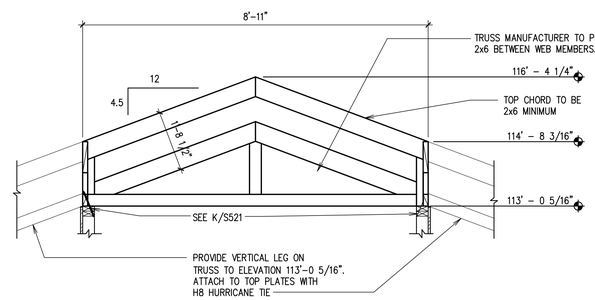
TR-12 LOAD DIAGRAM



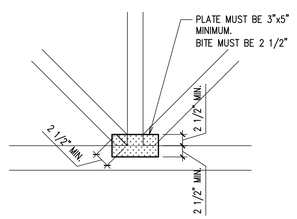
TRUSS 10, 11, AND 12					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	40	7'-3"	10



2 **TR-11 TRUSS ELEVATION**
NO SCALE



3 **TR-12 TRUSS ELEVATION**
NO SCALE



4 **GUSSET TO TRUSS SCHEMATIC**
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph. 801.782.8008 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
F. 801.394.3064
BOTT PANTONE

Stamp:
PROFESSIONAL STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

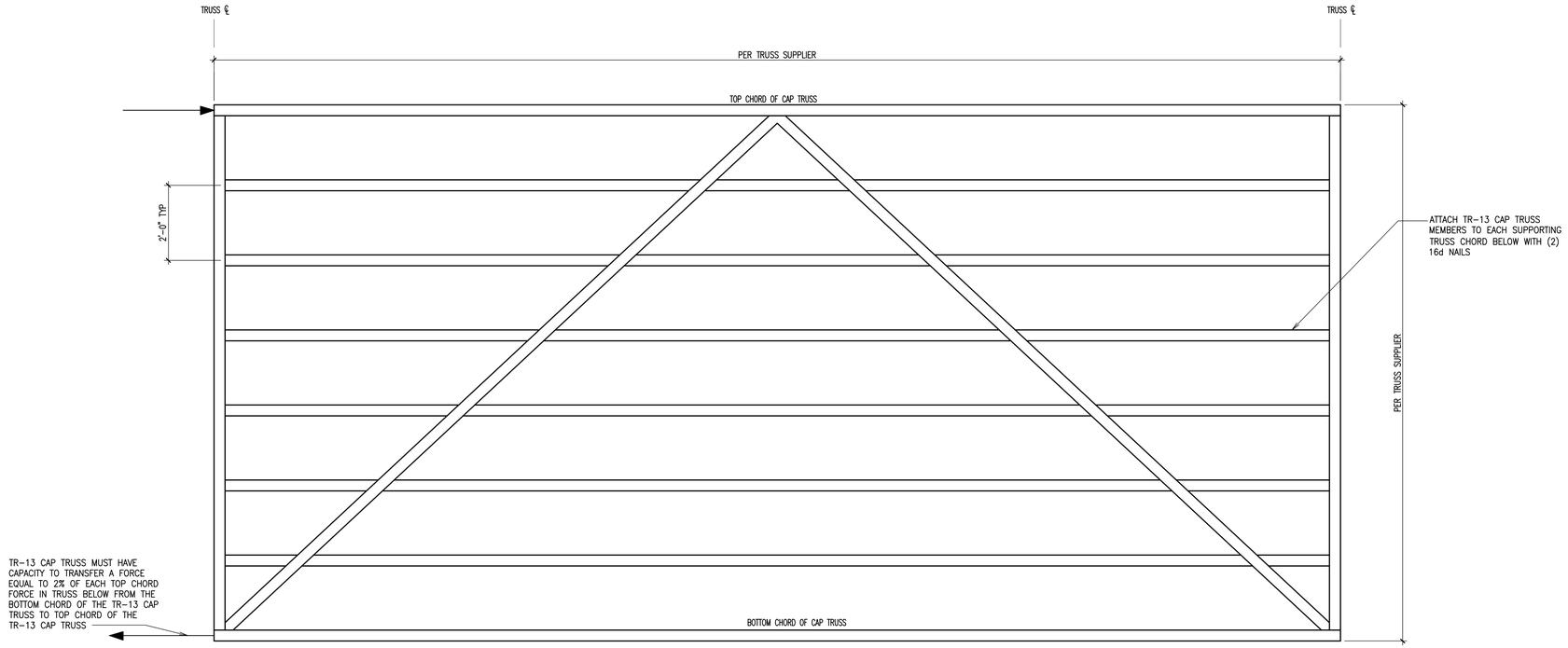
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
-	28-JUL-17	BID SET

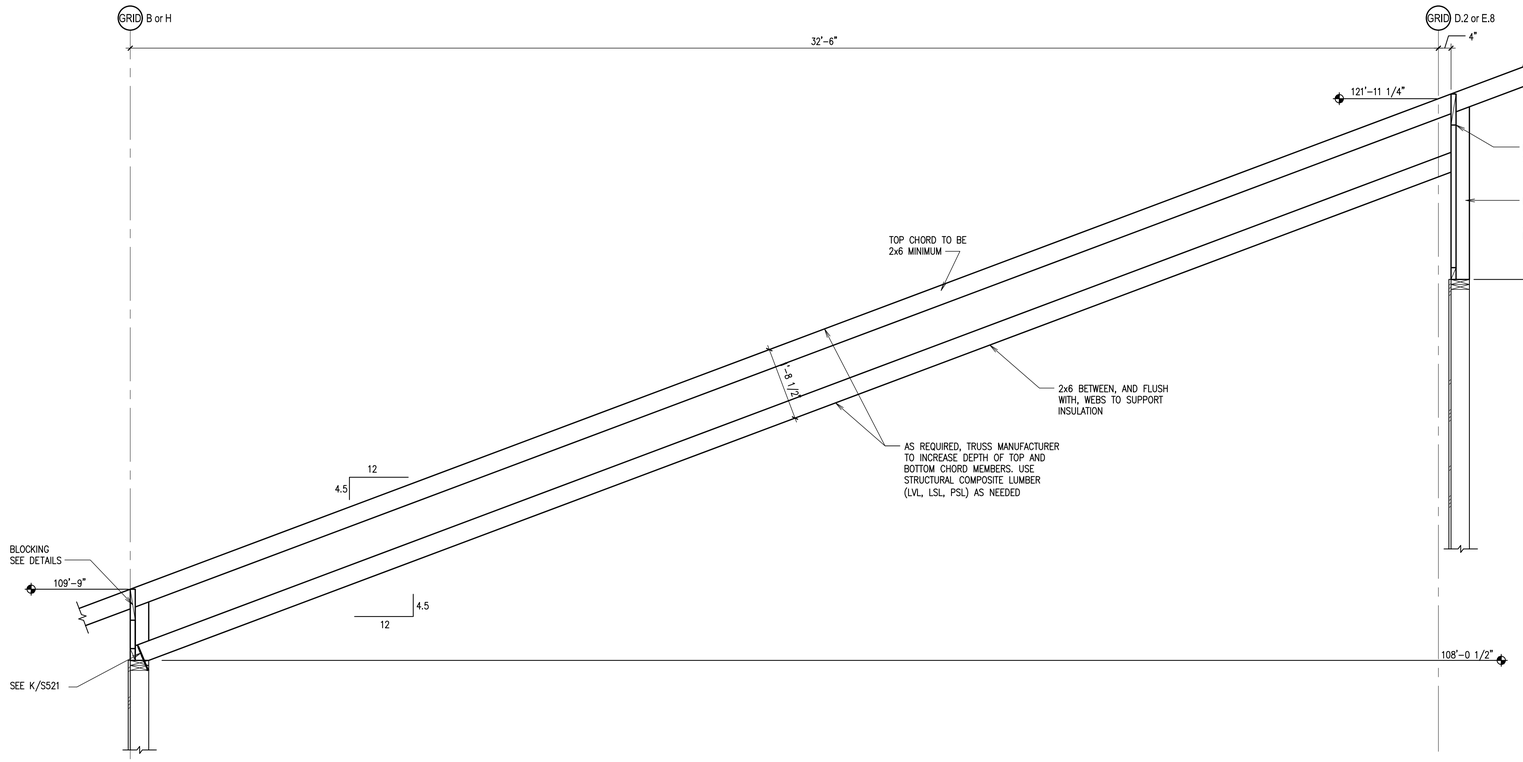
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S204



1 TR-13 CAP TRUSS ELEVATION
NO SCALE



TR-13 AND TR-14 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES

TR-14 LOAD DIAGRAM

A + B
LOAD DIAGRAM #1 – TOP CHORD

F
LOAD DIAGRAM #2 – BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1 AND 2
TR-14 LOAD COMBINATIONS

TRUSS 14					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	--	--	10

2 TR-14 TRUSS ELEVATION
NO SCALE

Architect / Engineer:
ENGINEERS
structural consultants
1384 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6006 fx. 801.782.4656
ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
801-394-3053
F 801-394-3064
BOTT PANTONE

Stamp:
STRUCTURAL
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

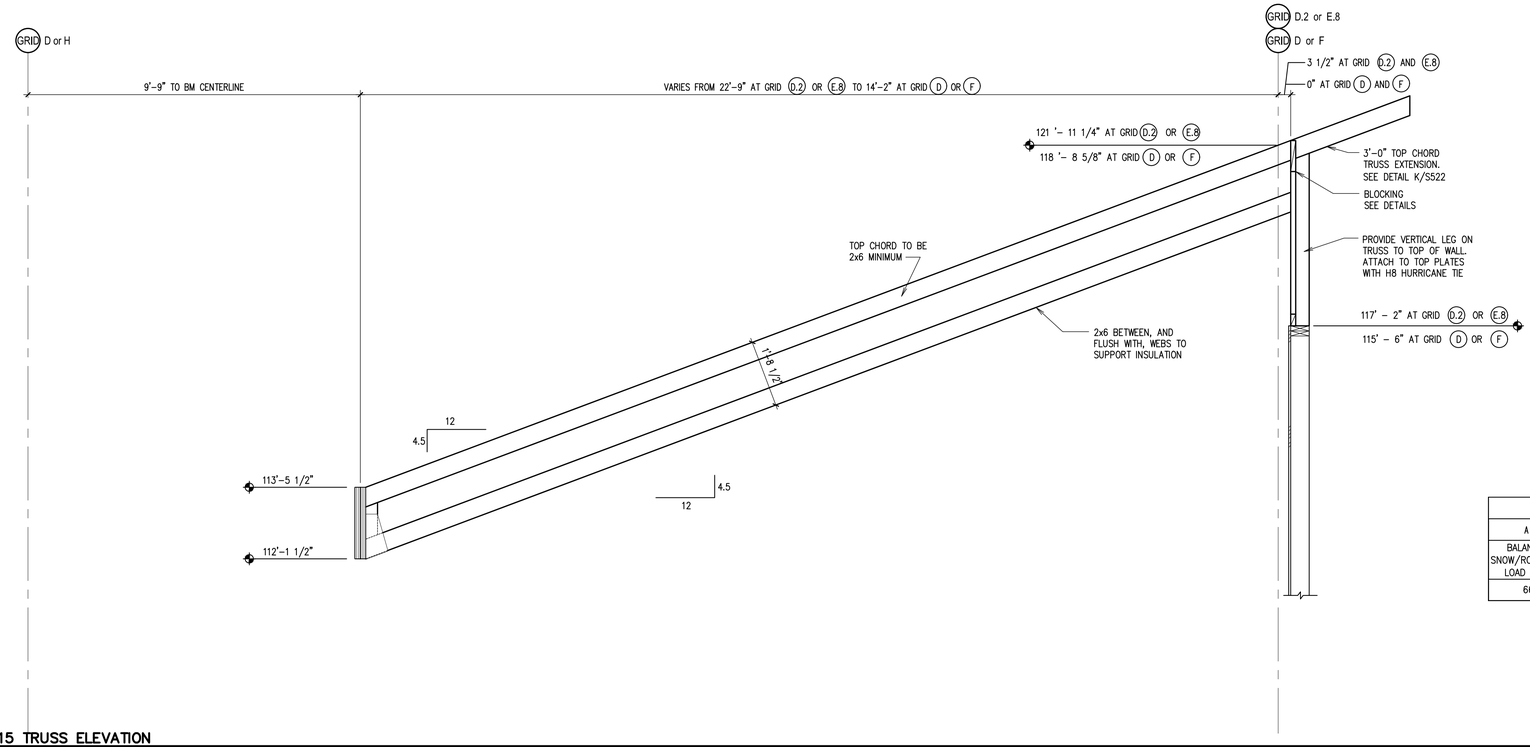
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DD-MM-YY)	Description
-	28-JUL-17	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S205



TR-15 LOAD DIAGRAM

A + B

LOAD DIAGRAM #1 – TOP CHORD

F

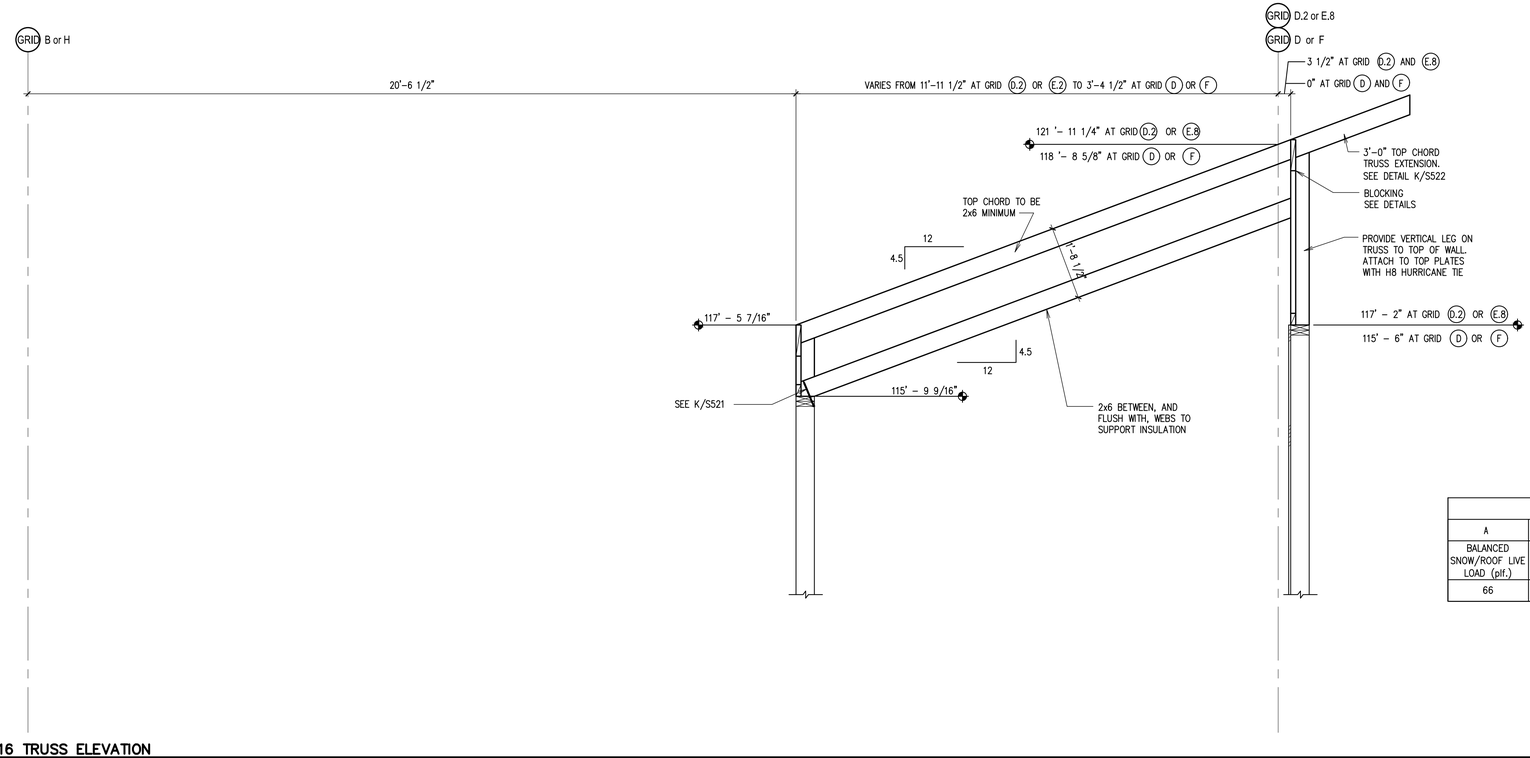
LOAD DIAGRAM #2 – BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1 AND 2
TR-15 LOAD COMBINATIONS

TRUSS 16					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	--	--	10

1 TR-15 TRUSS ELEVATION
NO SCALE

TR-15 AND TR-16 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES



TR-16 LOAD DIAGRAM

A + B

LOAD DIAGRAM #1 – TOP CHORD

F

LOAD DIAGRAM #2 – BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1 AND 2
TR-16 LOAD COMBINATIONS

TRUSS 16					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	--	--	10

2 TR-16 TRUSS ELEVATION
NO SCALE

Architect / Engineer:
ENGINEERS
structural consultants
1584 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6006 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
801-394-3053
F 801.394-3064
BOTT PANTONE ARCHITECTS

Stamp:
STRUCTURAL
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

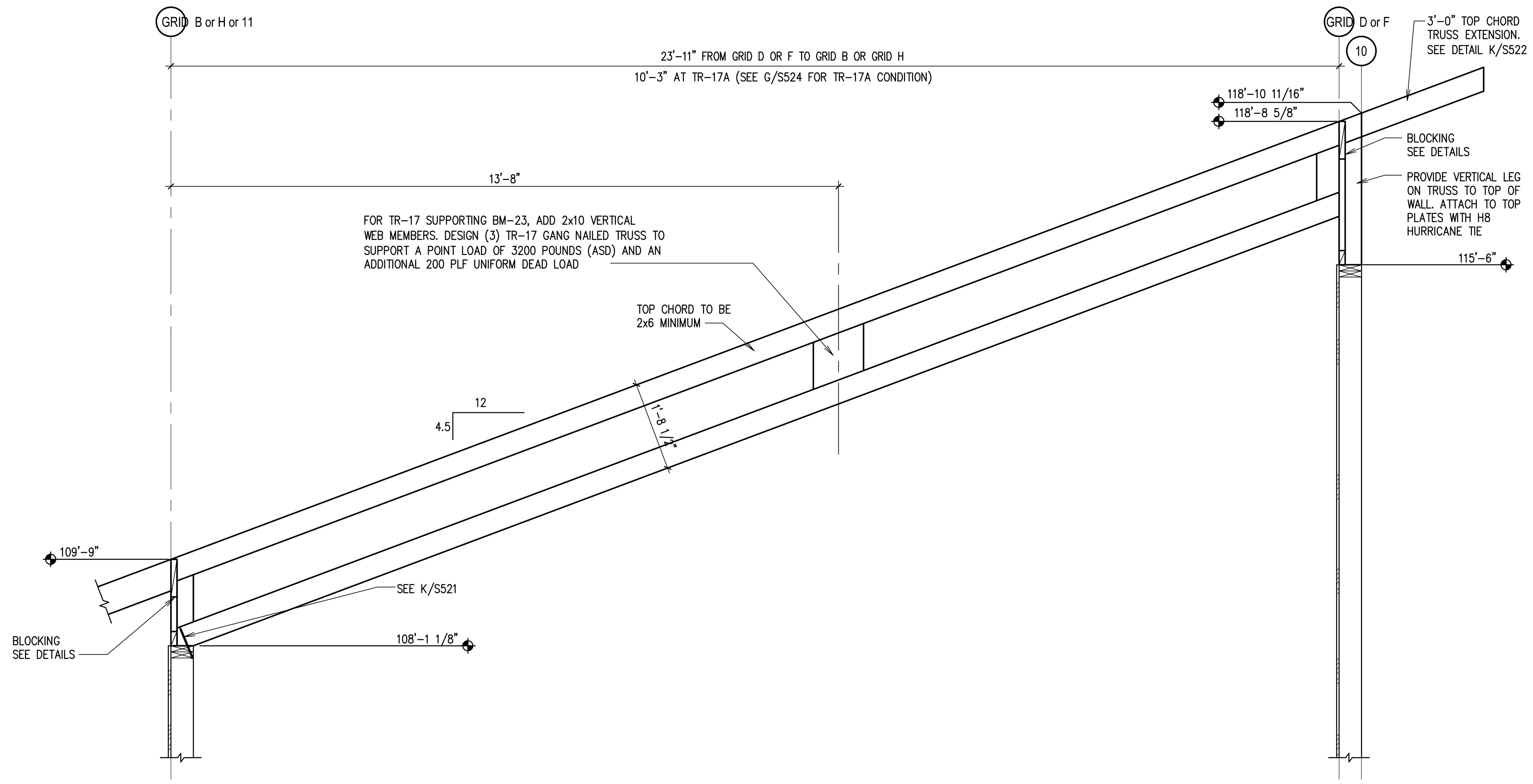
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
28-JUL-17	BID SET	

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S206



1 TR-17/TR-17A TRUSS ELEVATION
NO SCALE

TR-17 AND TR-17A TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES.

TR-17 LOAD DIAGRAM

A + B

LOAD DIAGRAM #1 – TOP CHORD

F

LOAD DIAGRAM #2 – BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1 AND 2

TR-17 LOAD COMBINATIONS

TRUSS 17, 18, 18A					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	--	--	10

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Park Cir. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
BP-ARCHITECTS.NET
P 801.394.3033
F 801.394.9064

Stamp:
PROFESSIONAL STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description
	28-JUL-17	BID SET
	- -	
	- -	
	- -	
	- -	
	- -	
	- -	

Project Number:
0761
Plan Series:
HET-SAS-09-07
Property Number:
500-1632

Sheet Title:
TRUSS ELEVATIONS

Sheet:
S207

TR-22 AND TR-23 TRUSS NOTES:
1. SEE S201 FOR GENERAL TRUSS NOTES.

TR-21, 22, AND 23 LOADING

A + B

LOAD DIAGRAM #1 – TOP CHORD

D + B

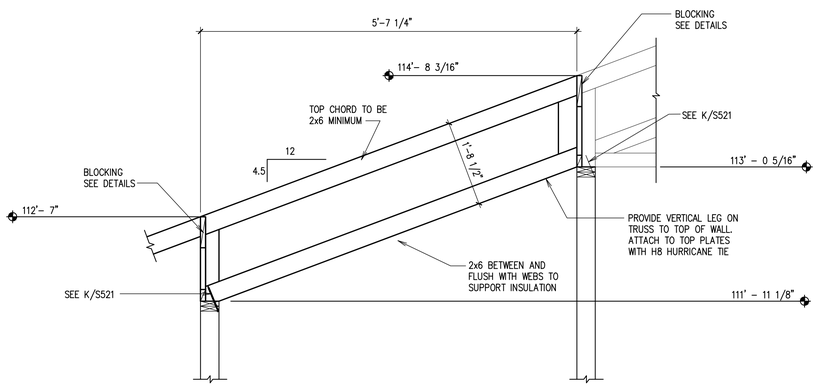
LOAD DIAGRAM #2 – TOP CHORD

F

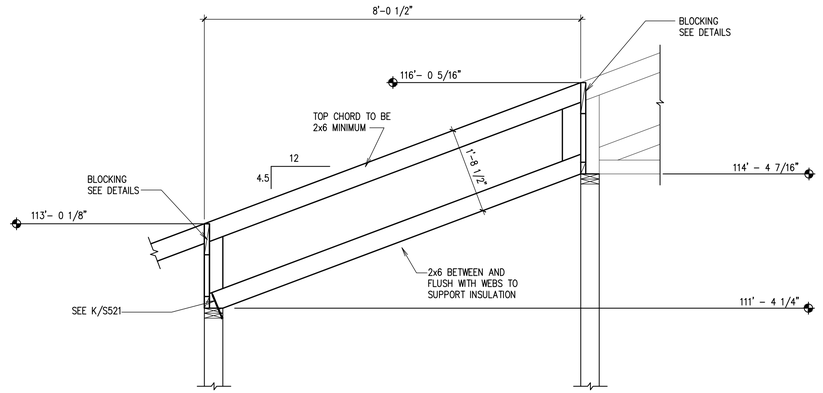
LOAD DIAGRAM #3 – BOTTOM CHORD

COMBINATION LOAD 1: DIAGRAMS 1 AND 3
COMBINATION LOAD 2: DIAGRAMS 2 AND 3
TR-21, 22, AND 23 LOAD COMBINATIONS

TRUSS 21, 22, AND 23					
A	B	C	D	E	F
BALANCED SNOW/ROOF LIVE LOAD (plf.)	TOP CHORD DEAD LOAD (plf.)	WINDWARD LOAD (plf.)	LEEWARD LOAD (plf.)	LEEWARD EXTENT (FT'-IN" LOAD (plf.)	BOTTOM CHORD LOAD (plf.)
66	30	--	--	--	10



1 TR-22 TRUSS ELEVATION
NO SCALE



2 TR-23 TRUSS ELEVATION
NO SCALE

Architect / Engineer:
ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph. 801.782.8008 fx. 801.782.4656
ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
F. 801.394.3064
BOTT PANTONE

Stamp:
STRUCTURAL
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
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Project for:
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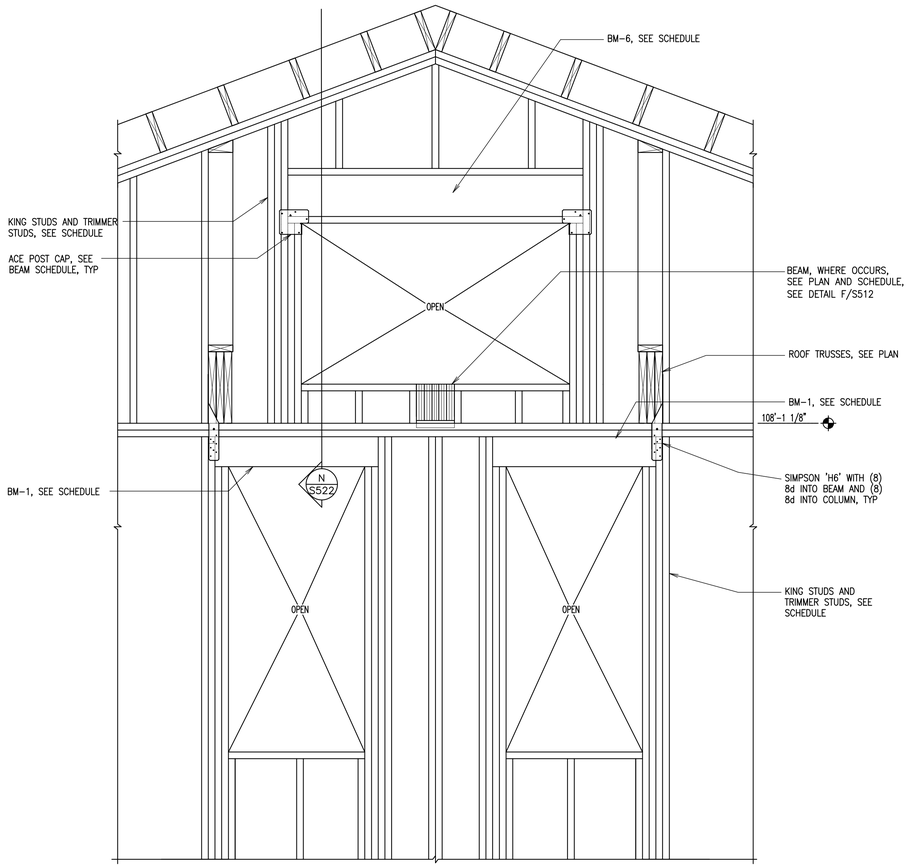
Mark	Date (DMY)	Description
-	28-JUL-17	BID SET

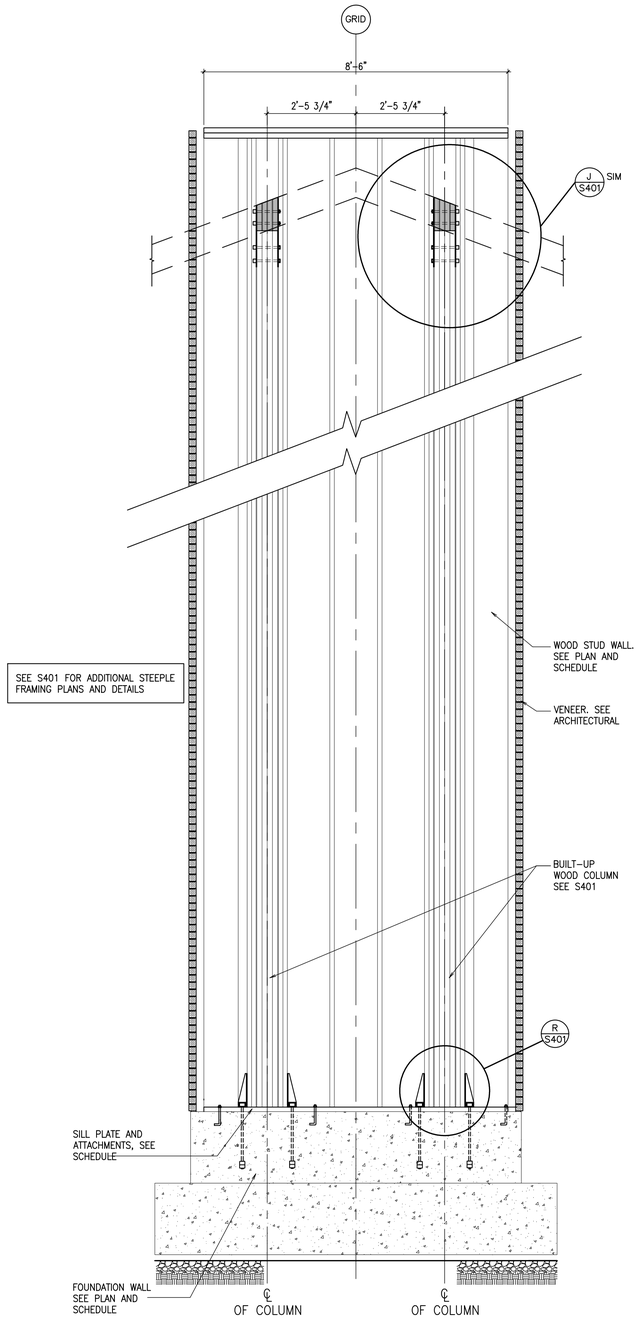
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: TRUSS ELEVATIONS

Sheet: S208



A WALL SCHEMATIC ELEVATION AT SIDE DORMERS ON GRID B OR GRID H
NO SCALE



B STEEPLE WALL
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Park Dr. Ogden, Utah 84404
ph. 801.782.8008 fx. 801.782.4656

ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
801.394.3013
F 801.394.3064

BOTT PANTONE

Stamp:
STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

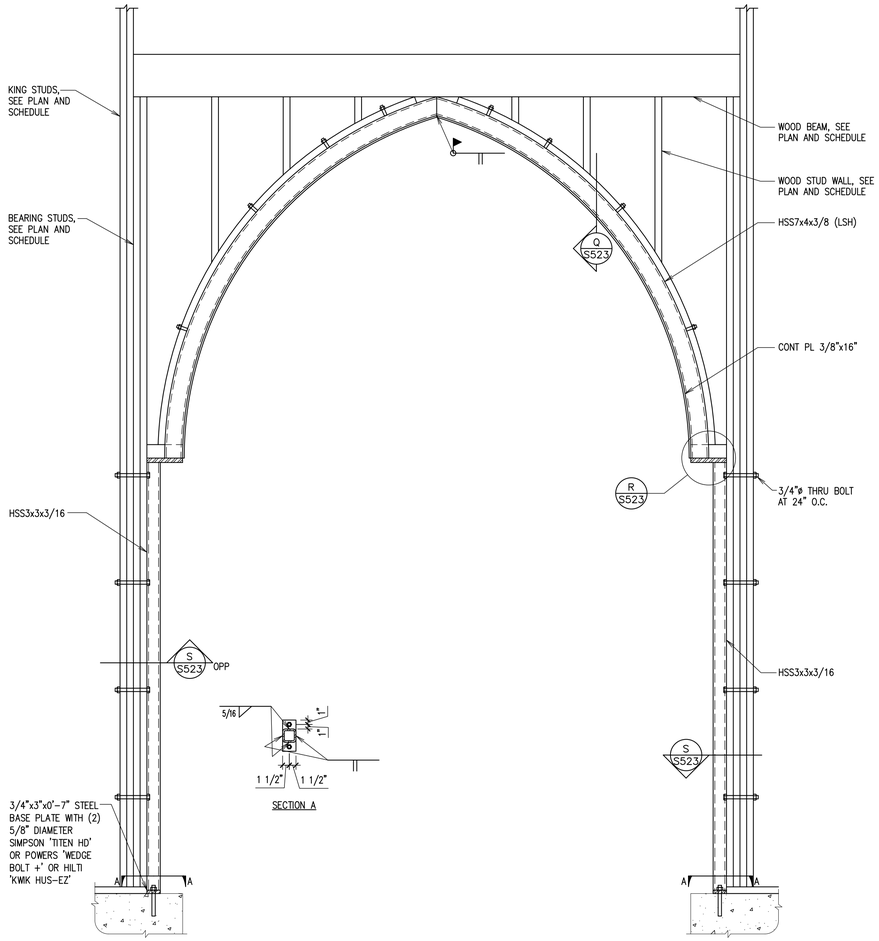
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
-	28-JUL-17	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ELEVATIONS

Sheet: S301



A SCHEMATIC ELEVATION AT ENTRIES
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Dr. Ogden, Utah 84404
ph. 801.782.0008 fx. 801.782.4656

620 24TH STREET
OGDEN, UT 84401
801-394-3053
F 801.394-3064

BOTT PANTONE ARCHITECTS

Stamp:
STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
-	28-JUL-17	BID SET
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
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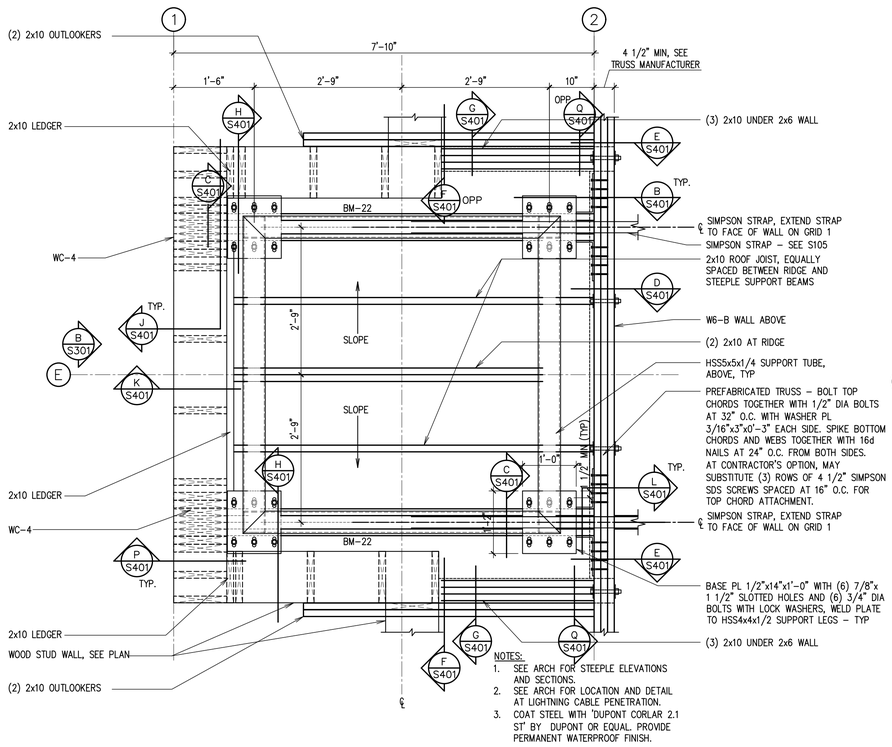
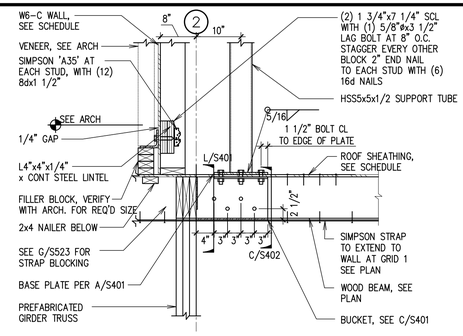
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ELEVATIONS

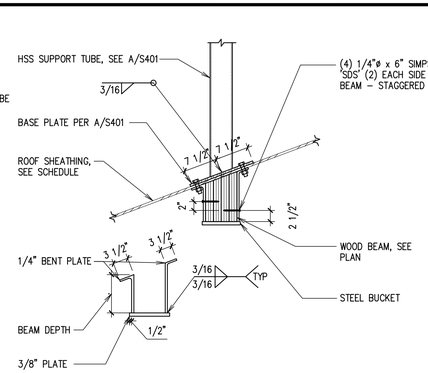
Sheet: S302



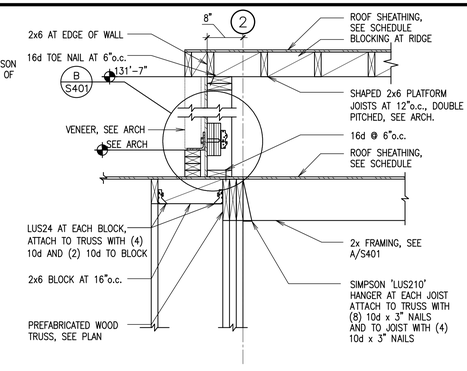
A ROOF FRAMING LAYOUT AT STEEPLE
NO SCALE



B CONNECTION AT TRUSS
NO SCALE



C BASE PLATE CONNECTION AT WOOD BEAM
NO SCALE



D STEEPLE DETAIL AT JOIST
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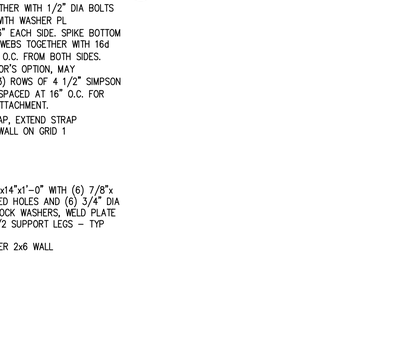
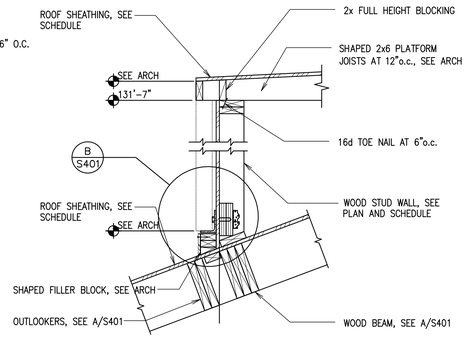
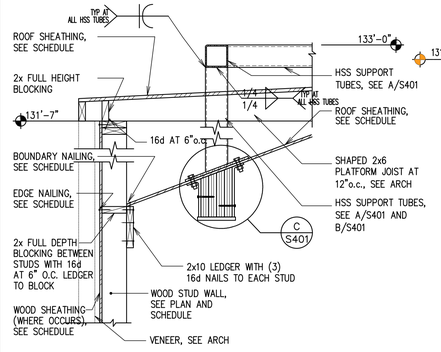


E
NO SCALE

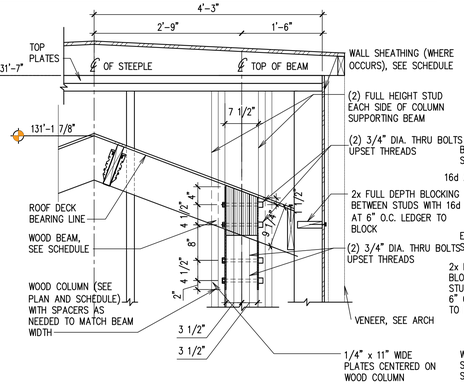


F BEAM BEARING AT STEEPLE
NO SCALE

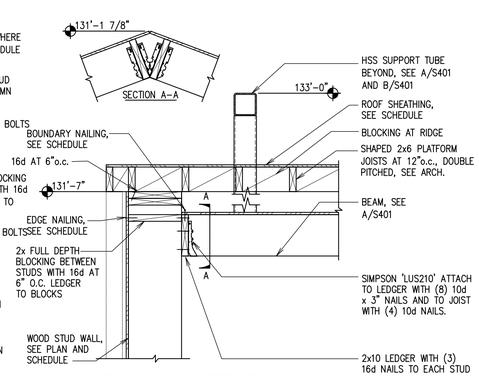
G WALL DETAIL AT STEEPLE
NO SCALE



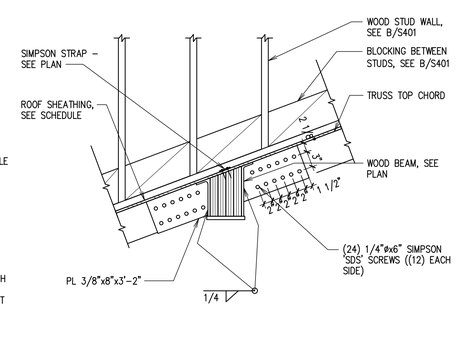
H DETAIL AT STEEPLE
NO SCALE



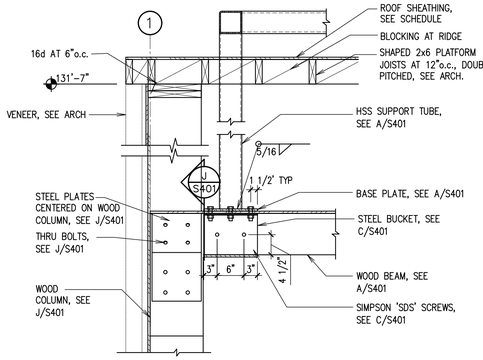
J DETAIL AT STEEPLE
NO SCALE



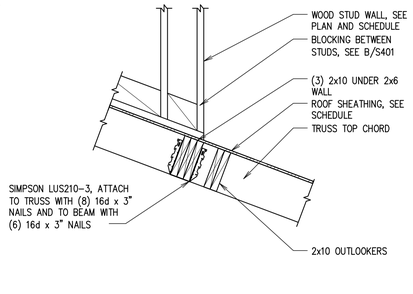
K ROOF FRAMING AT STEEPLE
NO SCALE



L WOOD BEAM CONNECTION TO GIRDER TRUSS
NO SCALE



P WOOD BEAM AT WOOD WALL
NO SCALE



Q (3) 2x10 BEAM TO TRUSS
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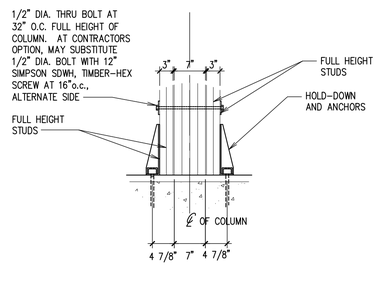


R STEEPLE WOOD COLUMN ANCHOR AND HOLD-DOWN
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.487.0090 fx. 801.487.4090
620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3053
F 801.394.3064
BOTT PANTONE ARCHITECTS

Stamp:
STATE OF UTAH PROFESSIONAL ENGINEER
Matthew C. McBride
No. 353993
08/01/17

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

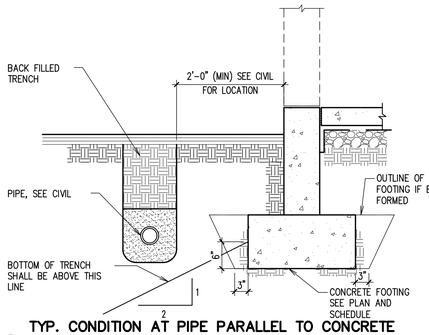
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
-	28-JUL-17	BID SET

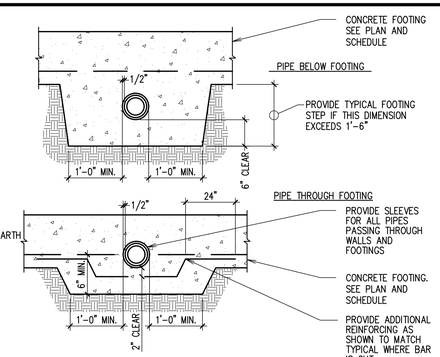
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: STEEPLE FRAMING PLAN AND DETAILS

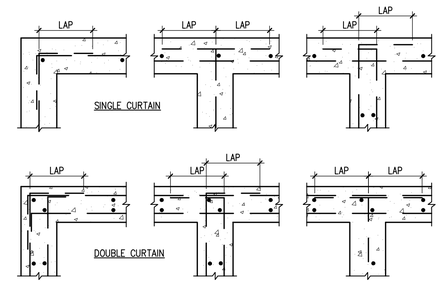
Sheet: S401



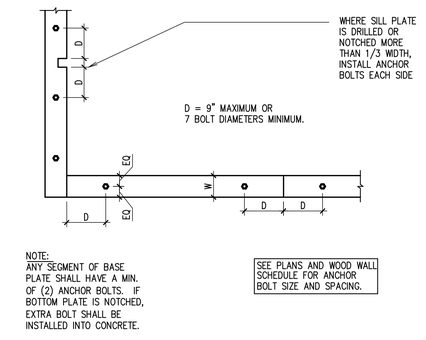
A TYP. CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING
NO SCALE



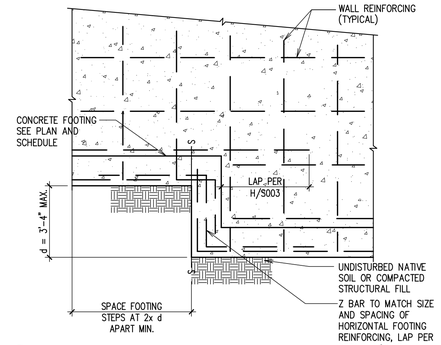
B TYP. CONDITION AT PIPE PERP. TO CONCRETE FOOTING
NO SCALE



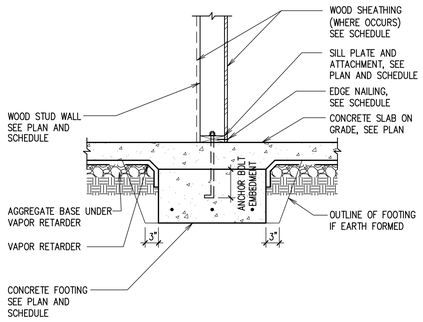
C TYP CORNER WALL REINFORCING AT CONCRETE WALLS (PLAN VIEW)
NO SCALE



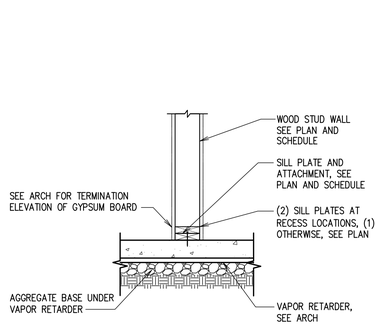
D TYP. SILL PLATE BOLTING DETAIL
NO SCALE



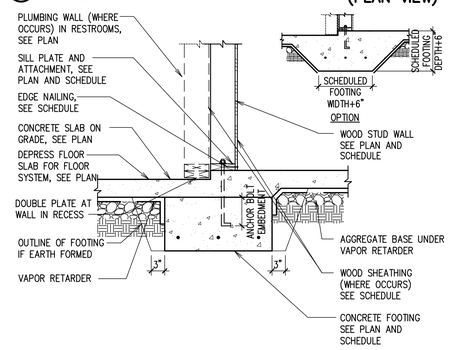
E TYP FOOTING STEP DETAIL
NO SCALE



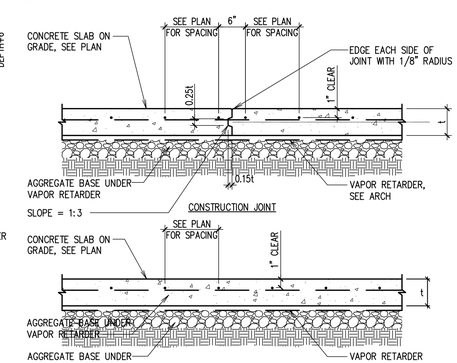
F TYPICAL INTERIOR CONCRETE FOOTING
NO SCALE



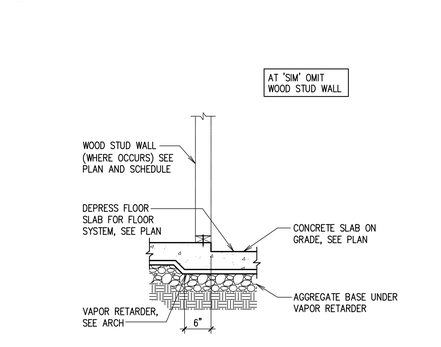
G NON–BEARING STUD AT SLAB ON GRADE
NO SCALE



H BEARING WALL DETAIL AT FLOOR OFFSET
NO SCALE

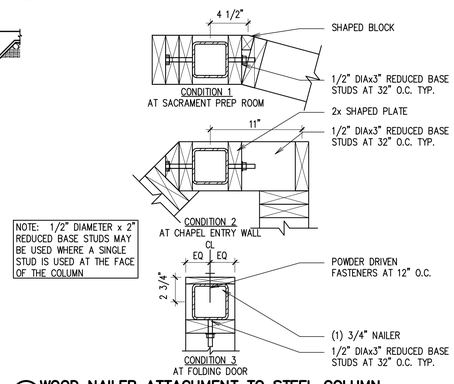


J TYPICAL SLAB ON GRADE JOINT DETAILS
NO SCALE



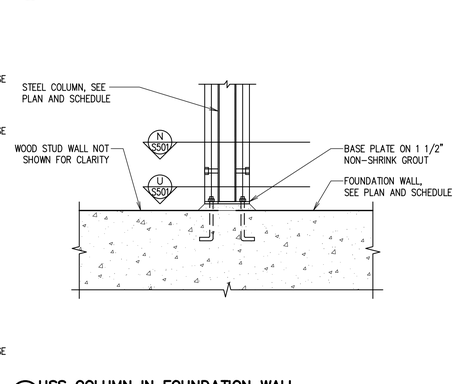
WOOD STUD WALL AT DEPRESSED CONCRETE SLAB ON GRADE
NO SCALE

L NOT USED
NO SCALE

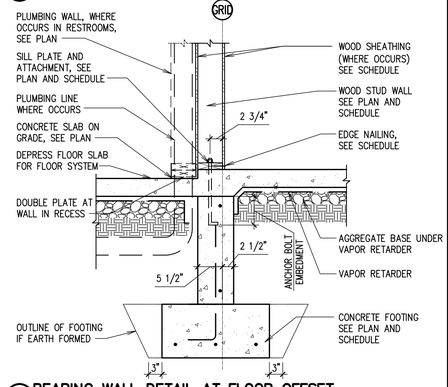


M STEEL COLUMN BEARING FOOTING
NO SCALE

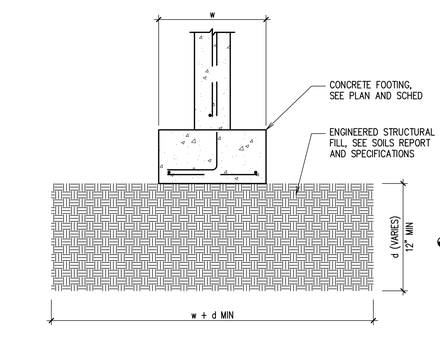
N WOOD NAILER ATTACHMENT TO STEEL COLUMN
NO SCALE



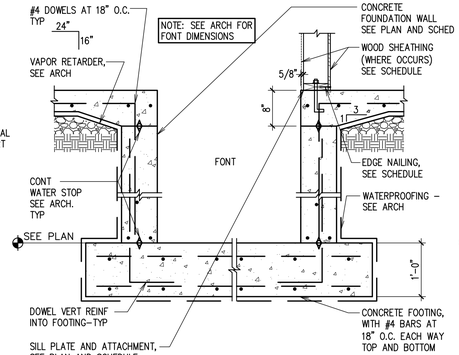
P HSS COLUMN IN FOUNDATION WALL
NO SCALE



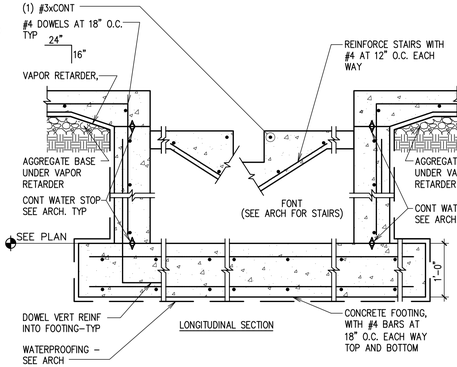
Q BEARING WALL DETAIL AT FLOOR OFFSET
NO SCALE



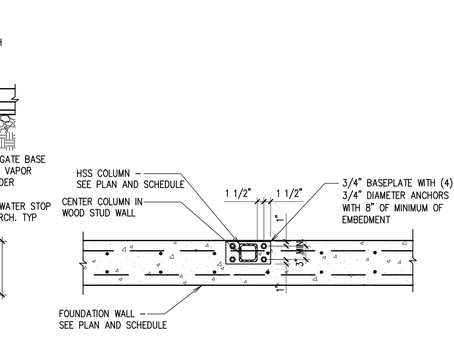
R ENGINEERED STRUCTURAL FILL DETAIL
NO SCALE



S FOOTING AND FOUNDATION AT BAPTISMAL FONT
NO SCALE



T STAIR DETAIL AT BAPTISMAL FONT
NO SCALE



U TOP VIEW OF HSS COLUMN IN FOUNDATION WALL
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.486.8000 fx. 801.486.8050
620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3033
F 801.394.3064
BOTT PANTONE ARCHITECTS

Stamp:
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

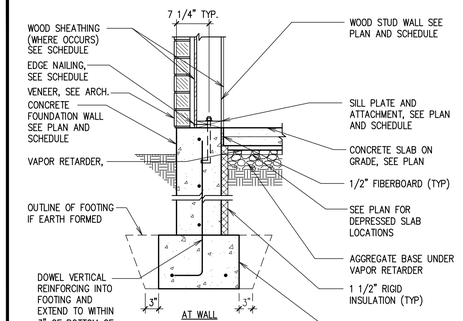
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMMY)	Description
28-JUL-17	BID SET	

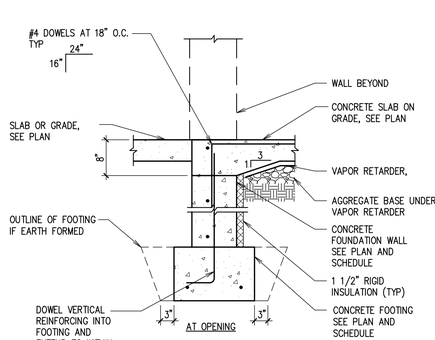
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

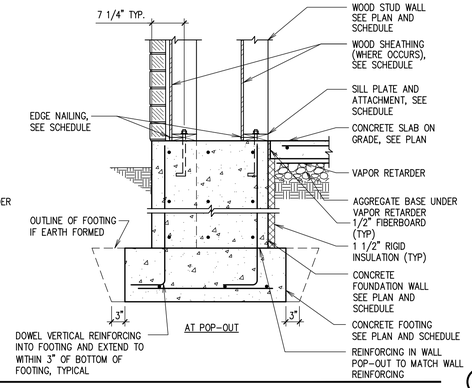
Sheet Title: FOOTING DETAILS (SPREAD FOOTING)

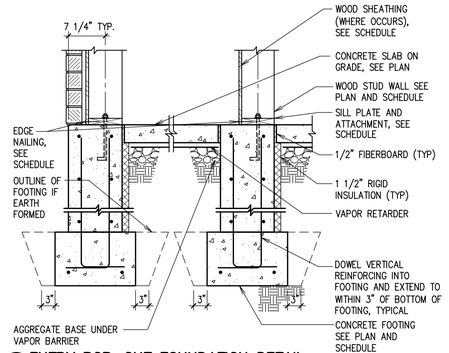
Sheet: S501



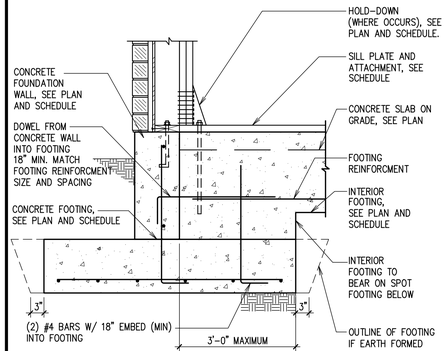
A TYP EXTERIOR FOUNDATION WALL
NO SCALE



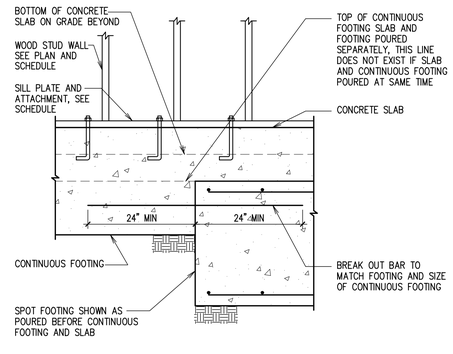




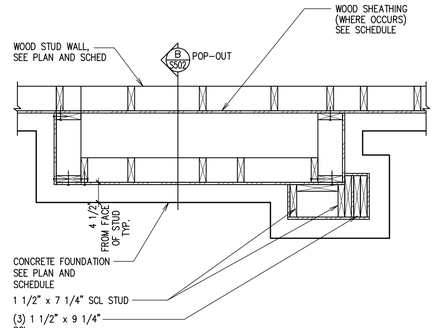
B ENTRY POP-OUT FOUNDATION DETAIL
NO SCALE



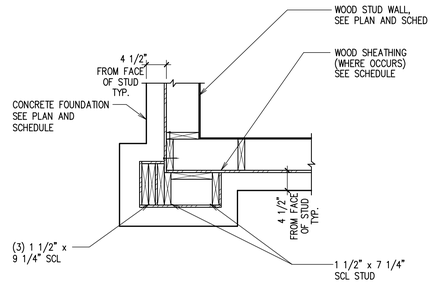
D FOOTING STEP AT EXTERIOR FOUNDATION WALL
NO SCALE

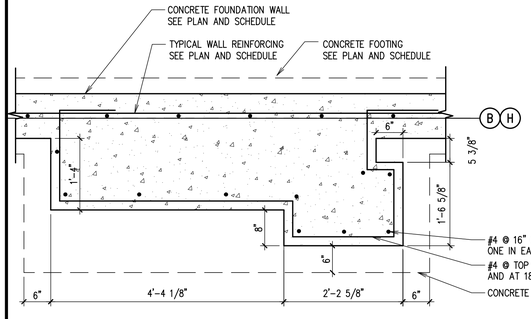


E CONNECTION OF SPOT TO CONTINUOUS FOOTING WHEN FOOTINGS POURED AT DIFFERENT TIMES
NO SCALE

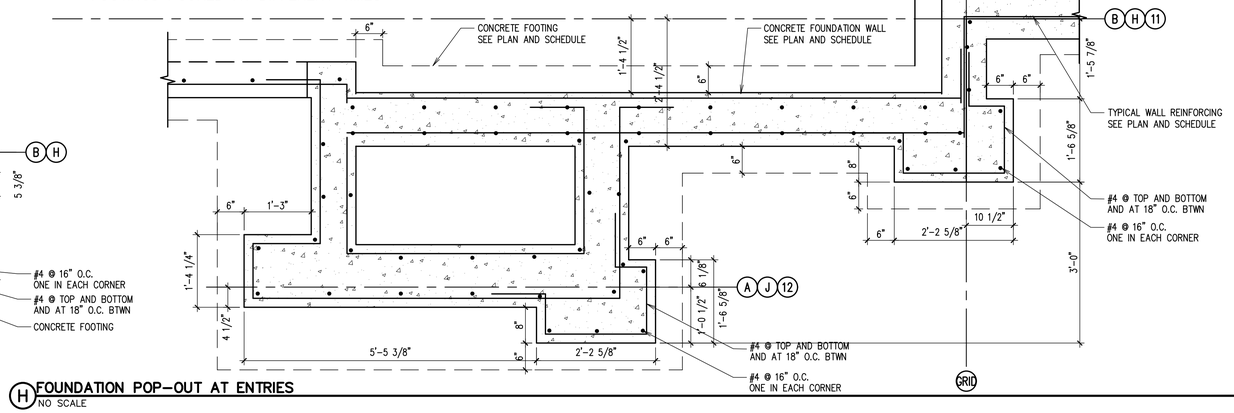


F EXTERIOR POP-OUT FRAMING [PLAN VIEW]
NO SCALE

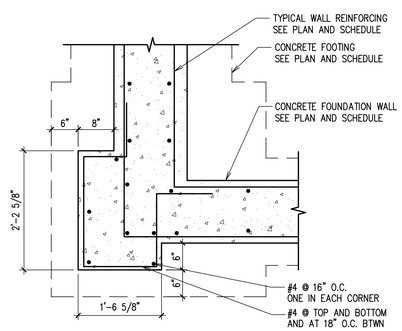




G FOUNDATION POP-OUT AT SIDE DORMERS ON GRID A AND GRID H
NO SCALE



H FOUNDATION POP-OUT AT ENTRIES
NO SCALE



J FOUNDATION POP-OUT AT FRONT OF BUILDING AT CHAPEL
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.487.0300 fx. 801.487.8650

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3033
F 801.394.3064

Stamp:
Matthew C. McBride
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STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

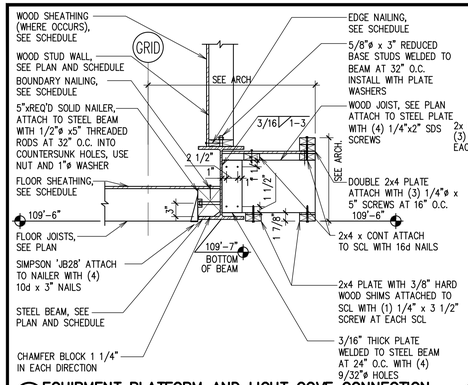
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAVY)	Description
-	28-JUL-17	BID SET

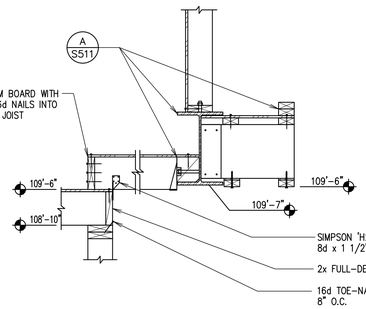
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: FOOTING DETAILS (SPREAD FOOTING)

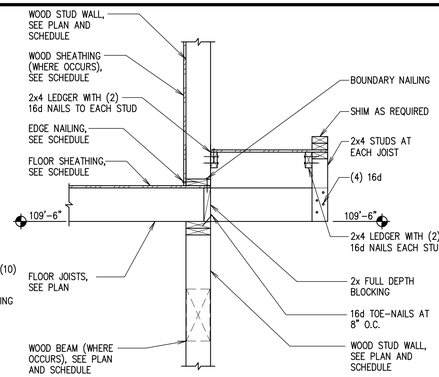
Sheet: S502



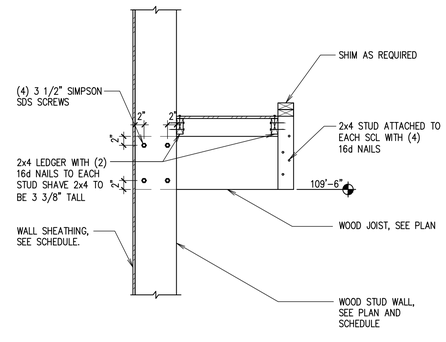
A EQUIPMENT PLATFORM AND LIGHT COVE CONNECTION
NO SCALE



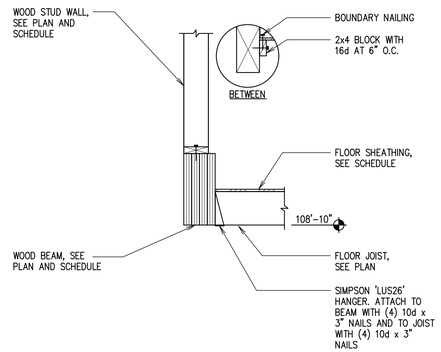
B EQUIPMENT PLATFORM AND LIGHT COVE CONNECTION
NO SCALE



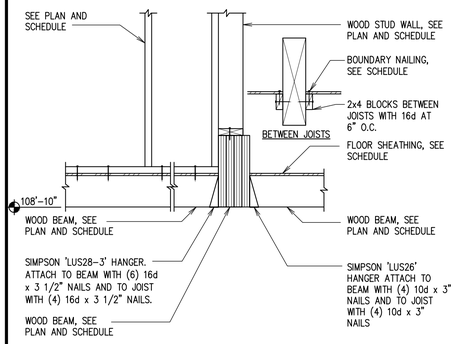
C EQUIPMENT PLATFORM FLOOR JOIST BEARING AT WOOD STUD WALL
NO SCALE



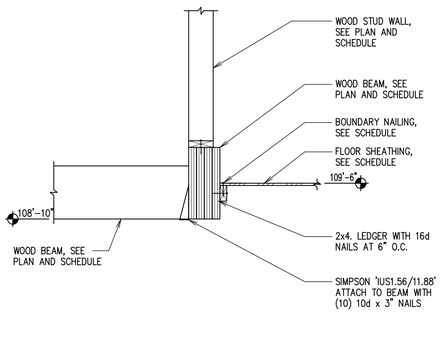
D LIGHT COVE DETAIL
NO SCALE



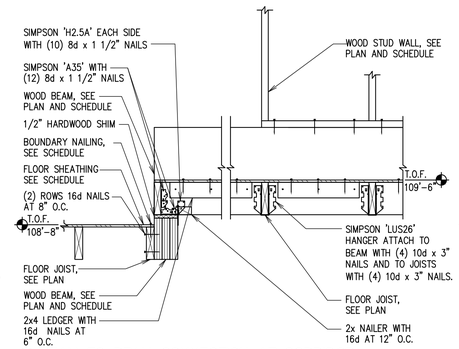
E EQUIPMENT PLATFORM FLOOR JOISTS BEARING AT BEAM AND LIGHT COVE WALL
NO SCALE



F EQUIPMENT PLATFORM BEAM DETAIL
NO SCALE



G LIGHT COVE DECK TO BEAM CONNECTION
NO SCALE



H BEAM TO BEAM CONNECTION AT CORRIDOR
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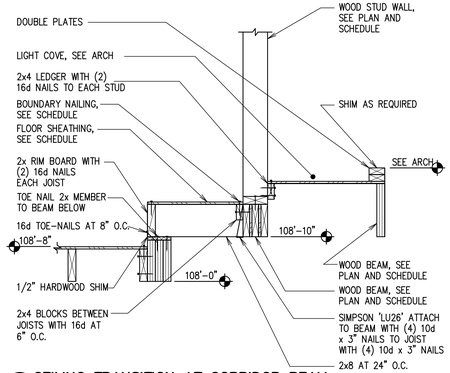
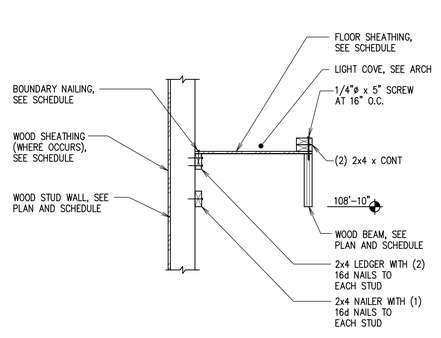
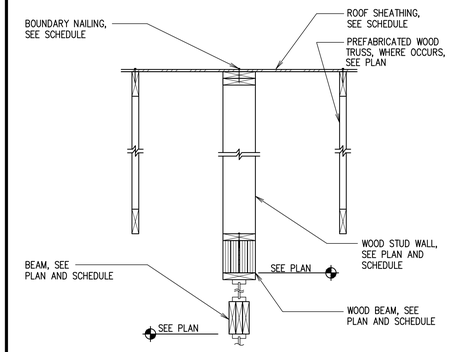


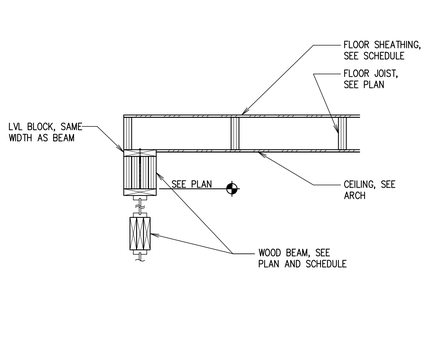
J CEILING TRANSITION AT CORRIDOR BEAM
NO SCALE



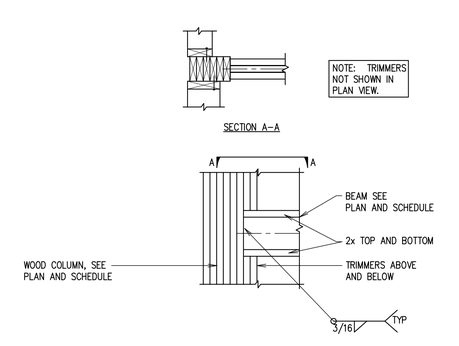
K SOFFIT FRAMING AT LIGHT COVE
NO SCALE



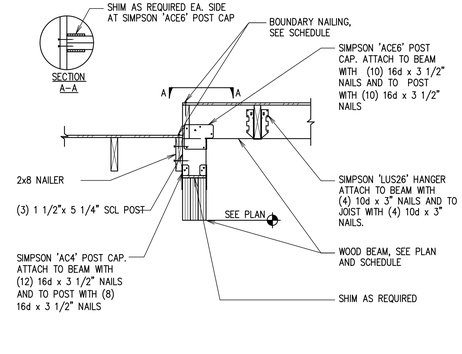
L WOOD BEAM AT VESTIBULE
NO SCALE



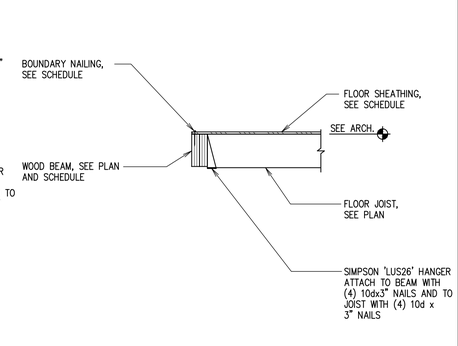
M DETAIL
NO SCALE



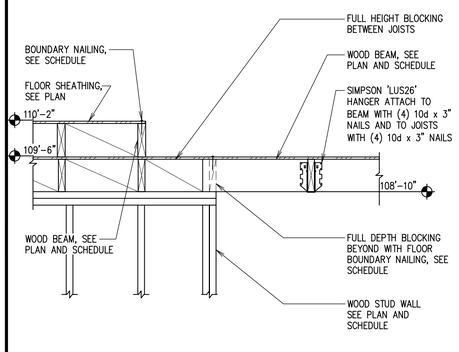
N LOWER BEAM AT VESTIBULE
NO SCALE



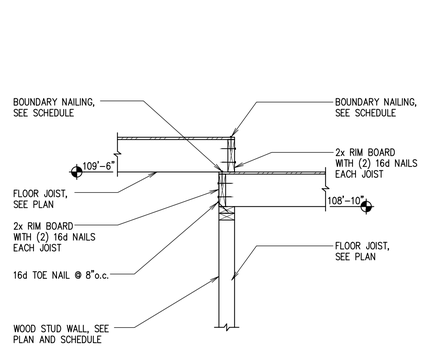
P EQUIPMENT PLATFORM FLOOR OFFSET DETAIL
NO SCALE



Q EQUIPMENT PLATFORM JOISTS BEARING AT EDGE BEAM
NO SCALE



R EQUIPMENT PLATFORM FLOOR OFFSET DETAIL
NO SCALE



S EQUIPMENT PLATFORM FLOOR OFFSET DETAIL
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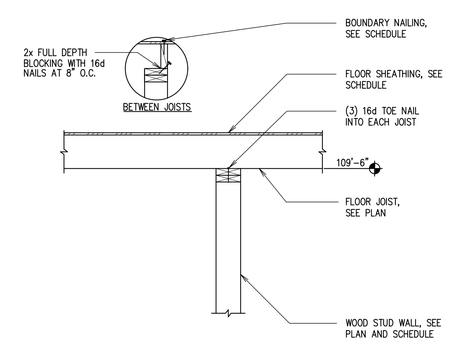
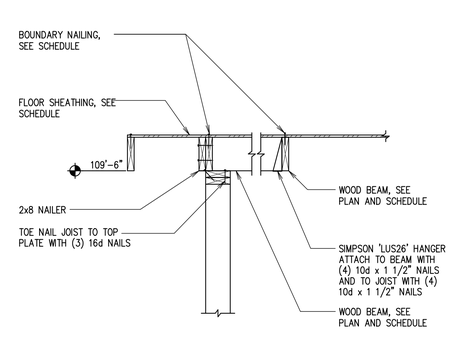
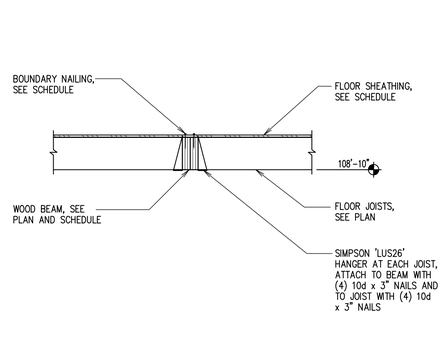


T EQUIPMENT PLATFORM CONTINUOUS JOIST DETAIL
NO SCALE



U WOOD BEAM BEARING ON STUD WALL
NO SCALE



V EQUIPMENT PLATFORM FLOOR JOISTS BEARING AT BEAM
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pers Cir. Styles. Utah 84604
ph. 801.782.6008 fx. 801.782.4656

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3033
F. 801.394.3064

Stamp:
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

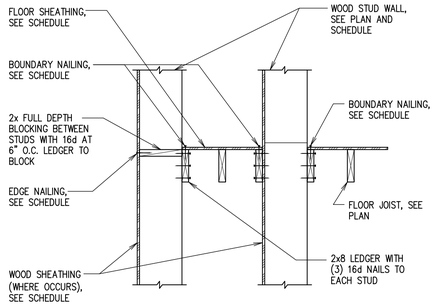
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
28	JUL-17	BID SET

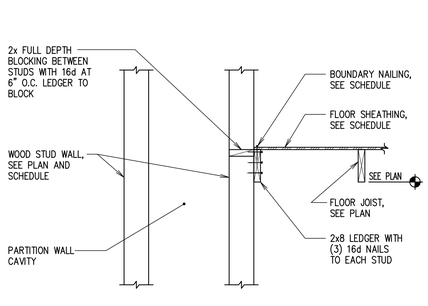
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: EQUIPMENT PLATFORM FRAMING DETAILS

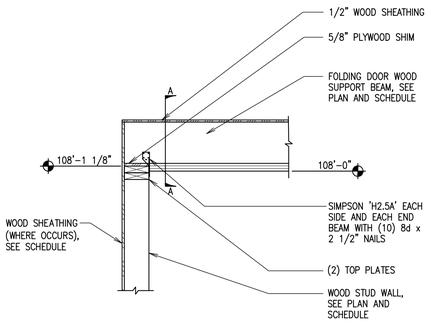
Sheet: S511

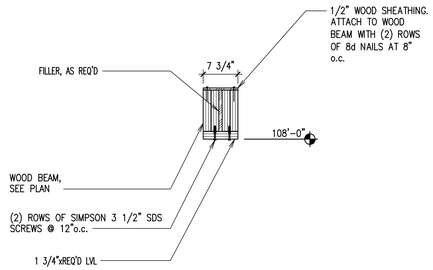


B EQUIPMENT PLATFORM FRAMING
NO SCALE

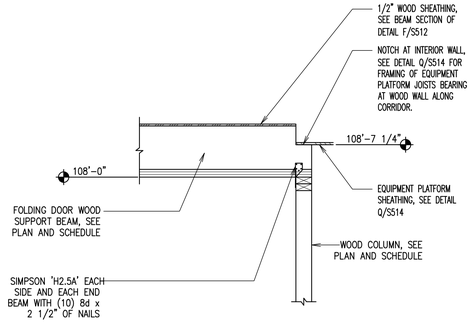


C EQUIPMENT PLATFORM DETAIL AT FOLDING DOOR CAVITY
NO SCALE



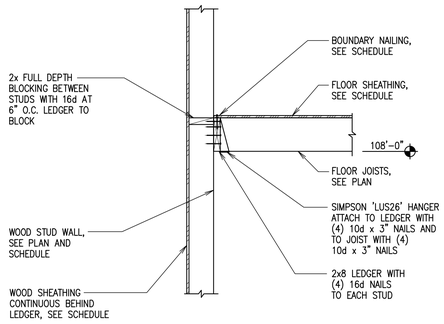


BEAM SECTION, SECTION A-A

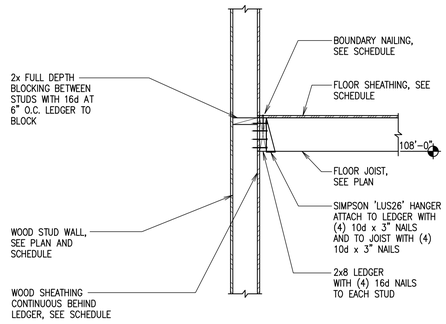


INSIDE WALL

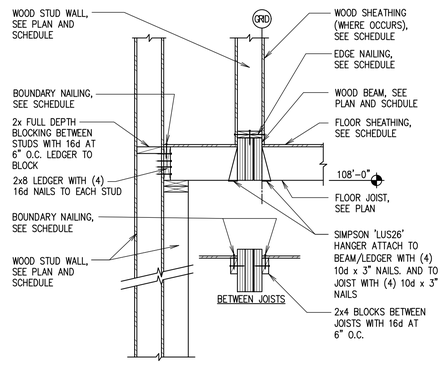
F FOLDING DOOR SUPPORT BEAM DETAIL
NO SCALE



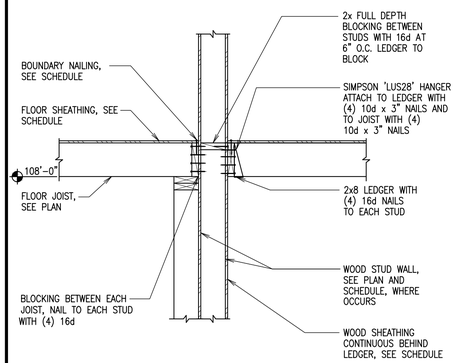
L EQUIPMENT PLATFORM FLOOR TO WALL CONNECTION
NO SCALE **ALONG GRID 10**



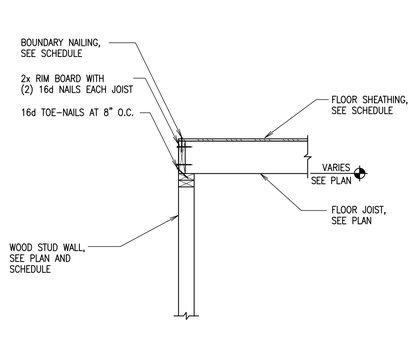
M EQUIPMENT PLATFORM TO WALL CONNECTION
NO SCALE



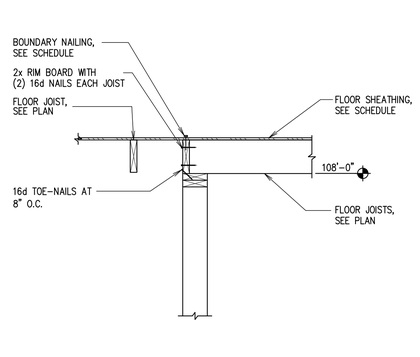
N EQUIPMENT PLATFORM JOIST BEARING AT WOOD BEAM
NO SCALE



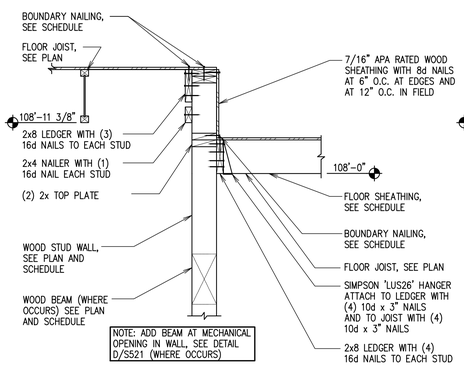
P EQUIPMENT PLATFORM TO WALL CONNECTION
NO SCALE



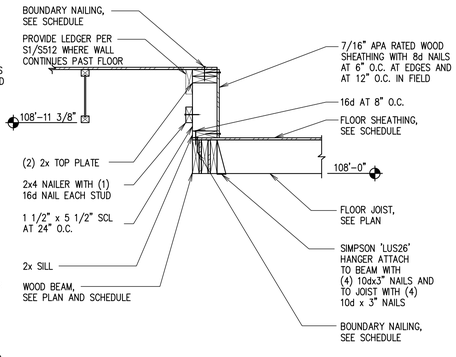
Q EQUIPMENT PLATFORM FLOOR JOISTS BEARING AT WOOD
NO SCALE **STUD WALL**



R EQUIP. PLATFORM FLOOR JOIST TO WOOD STUD WALL
NO SCALE



S1 EQUIP. PLATFORM JOIST TO WALL AT FLOOR OFFSET
NO SCALE



S2 EQUIP. PLATFORM JOIST TO WALL AT FLOOR OFFSET
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1584 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3053
F 801.394.3064

BOTT PANTONE ARCHITECTS

Stamp:
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

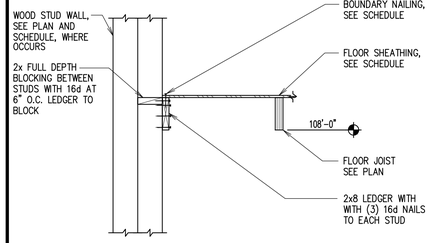
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
-	-	28-JUL-17/ BID SET

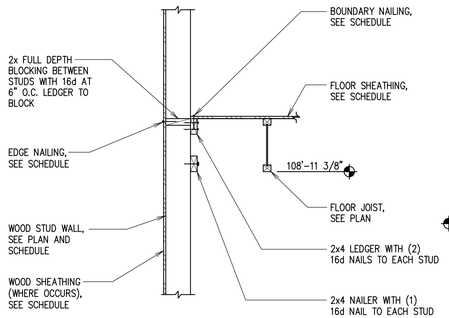
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: EQUIPMENT PLATFORM FRAMING DETAILS

Sheet: S512



A FLOOR EDGE CONDITION AT WALL OVER BATHROOM
NO SCALE



B FLOOR EDGE CONDITION AT WALL
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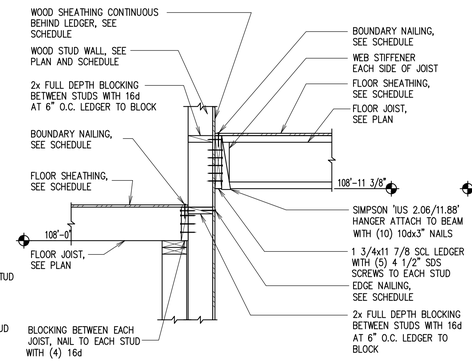
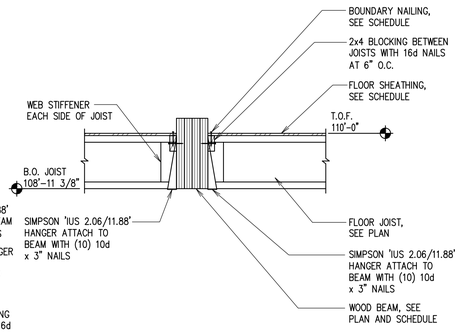
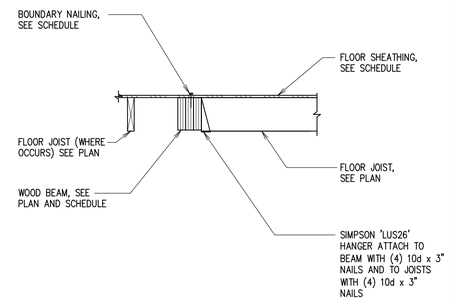


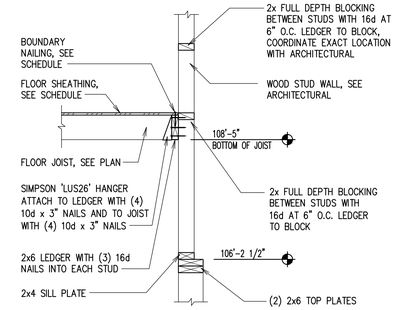
C VERTICAL OFFSET FLOOR JOISTS BEARING AT WALL
NO SCALE



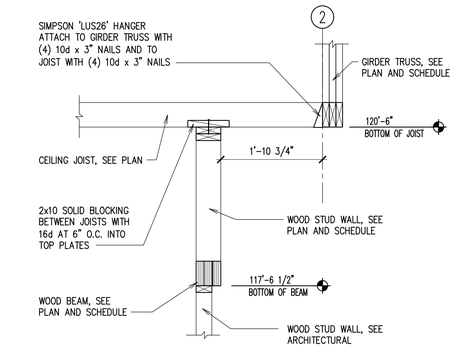
D RAISED BEAM OVER FOLDING DOOR OVER PRIESTHOOD ROOM
NO SCALE



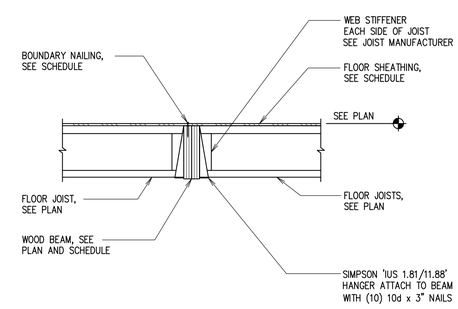
E JOIST TO BEAM CONNECTION
NO SCALE



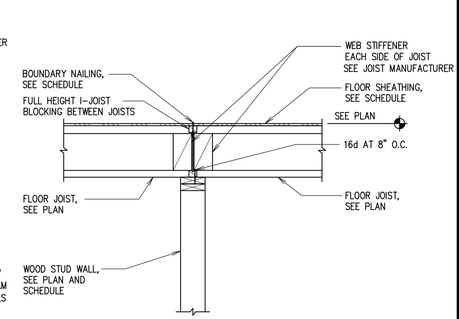
G FLOOR JOISTS BEARING AT WALL (ORGAN SPEAKER CHAMBER)
NO SCALE



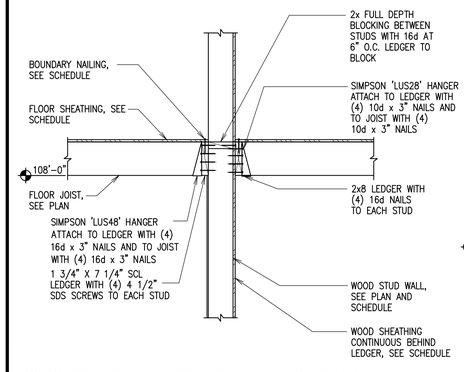
H CEILING JOISTS BEARING AT WALL (ORGAN SPEAKER CHAMBER)
NO SCALE



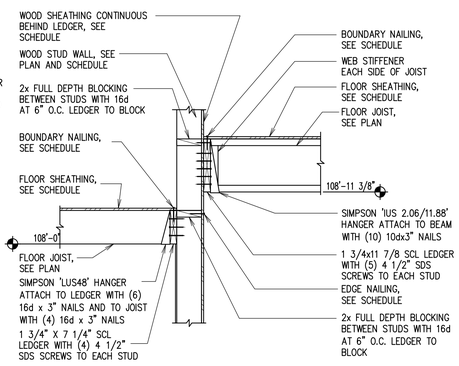
J FLOOR JOISTS BEARING AT FLOOR BEAM
NO SCALE



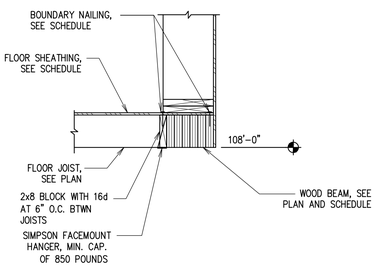
K FLOOR JOISTS BEARING AT WALL
NO SCALE



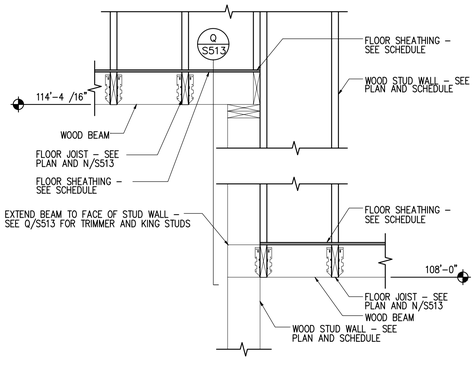
L EQUIPMENT PLATFORM TO WALL CONNECTION
NO SCALE



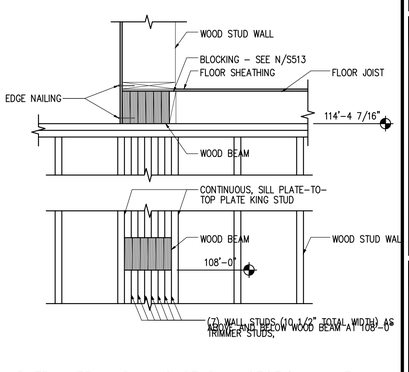
M VERTICAL OFFSET FLOOR JOISTS BEARING AT WALL
NO SCALE



N JOIST TO BEAM CONNECTION
NO SCALE



P BM-5 TRIMMER AND KING STUD – FACE VIEW
NO SCALE



Q BM-5 TRIMMER AND KING STUD – SECTIONAL VIEW
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84104
ph. 801.746.0066 fx. 801.746.0067
620 24TH STREET
OGDEN, UTAH 84401
801-394-3033
F 801.394.3034
BOTT PANTONE

Stamp:
STATE OF UTAH – LICENSED STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

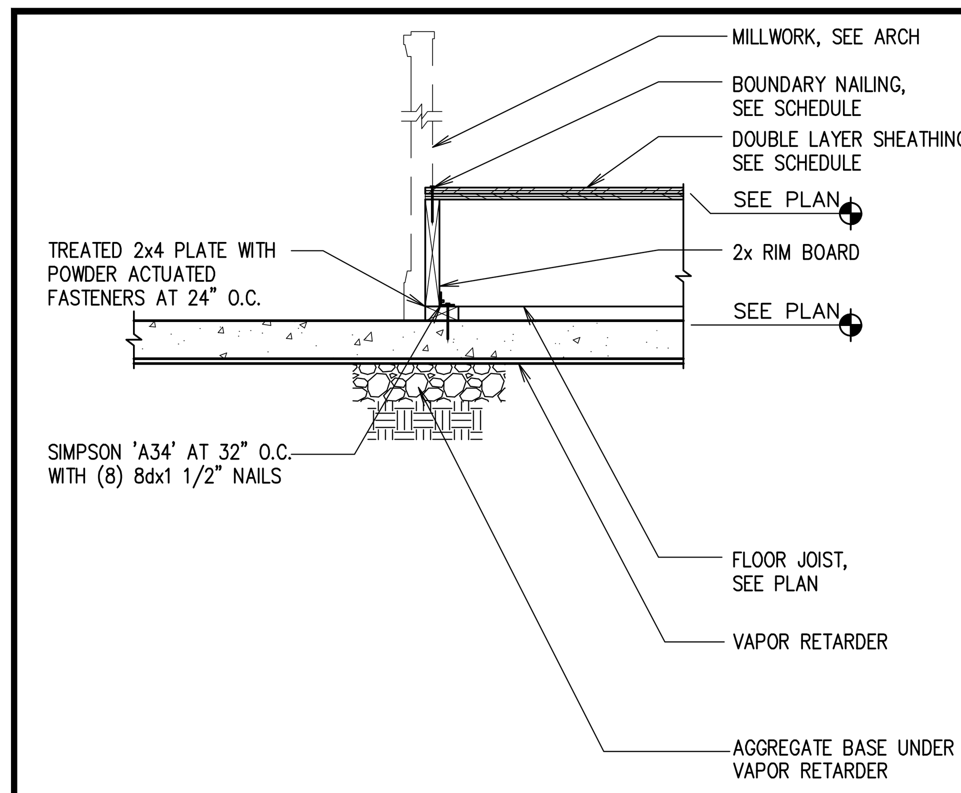
Mark	Date (DMY)	Description
28-JUL-17	BID SET	

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

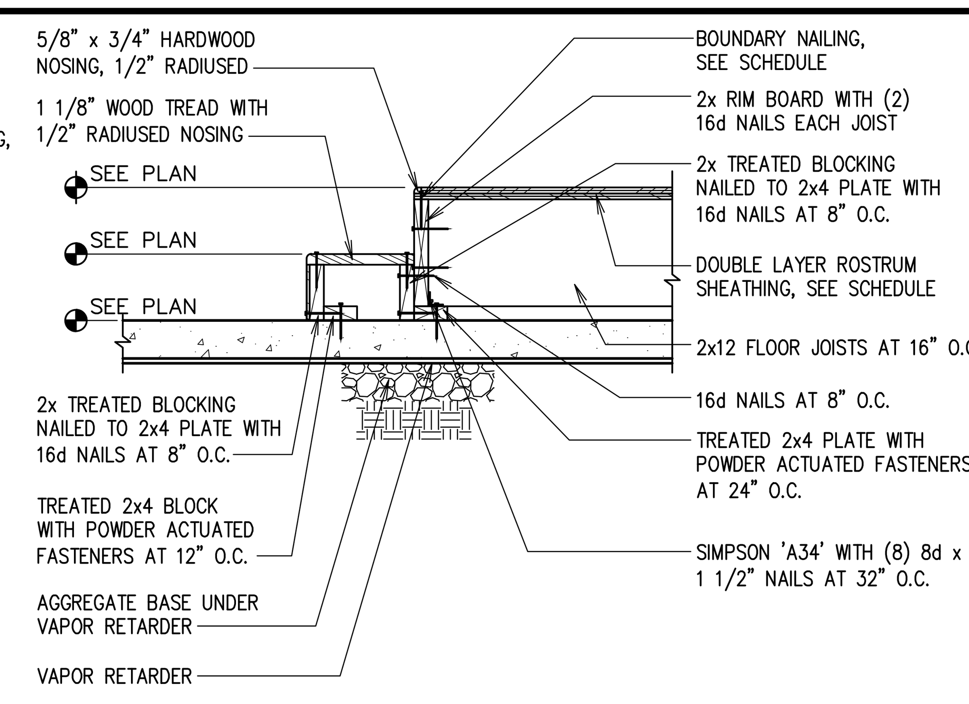
Sheet Title: EQUPMENT PLATFORM FRAMING DETAILS

Sheet: S513

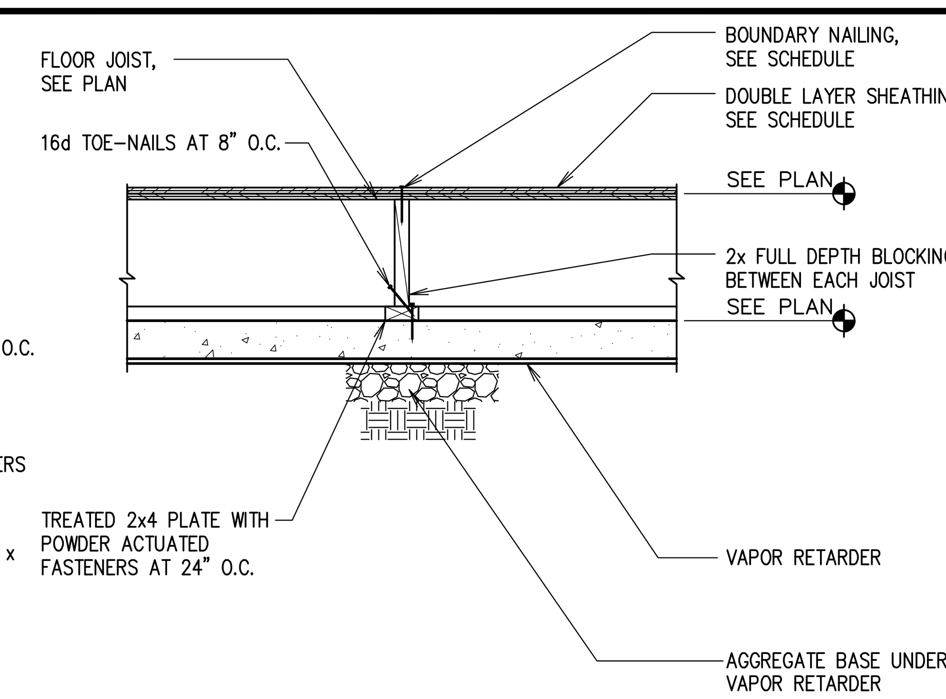
HSAS-S513.dwg - 08/01/2017 - 8:31 AM



A ROSTRUM FRONT EDGE
NO SCALE



B ROSTRUM STAIRS
NO SCALE



C ROSTRUM TYPICAL JOIST BEARING
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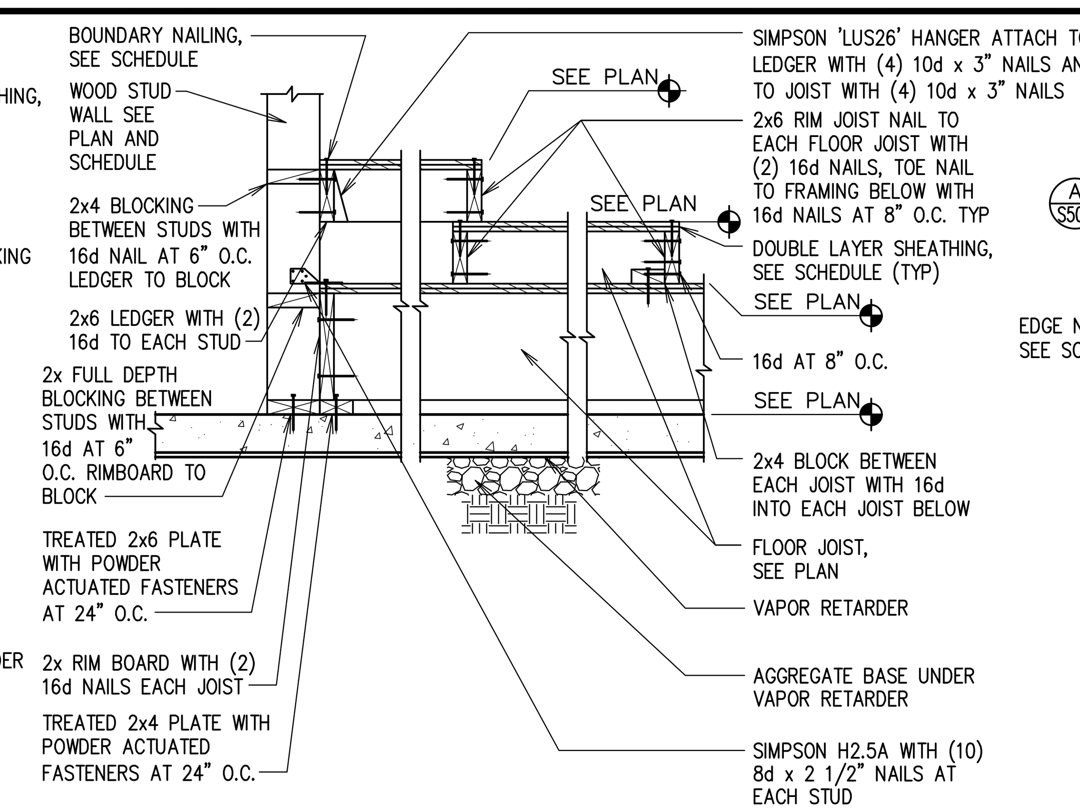

D ROSTRUM OVERBUILD
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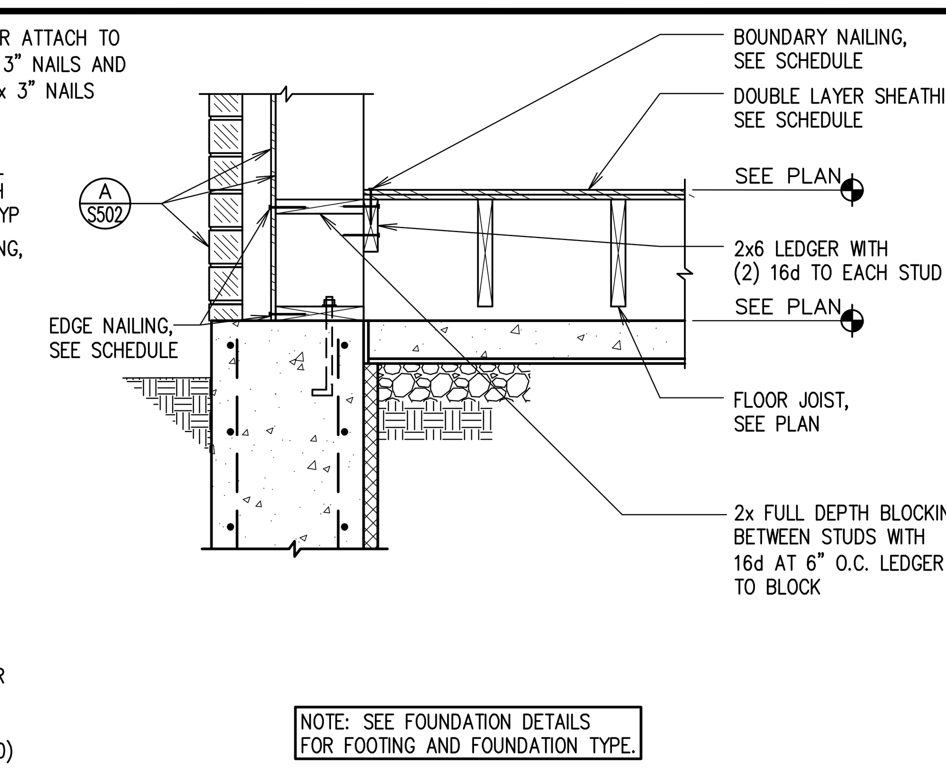
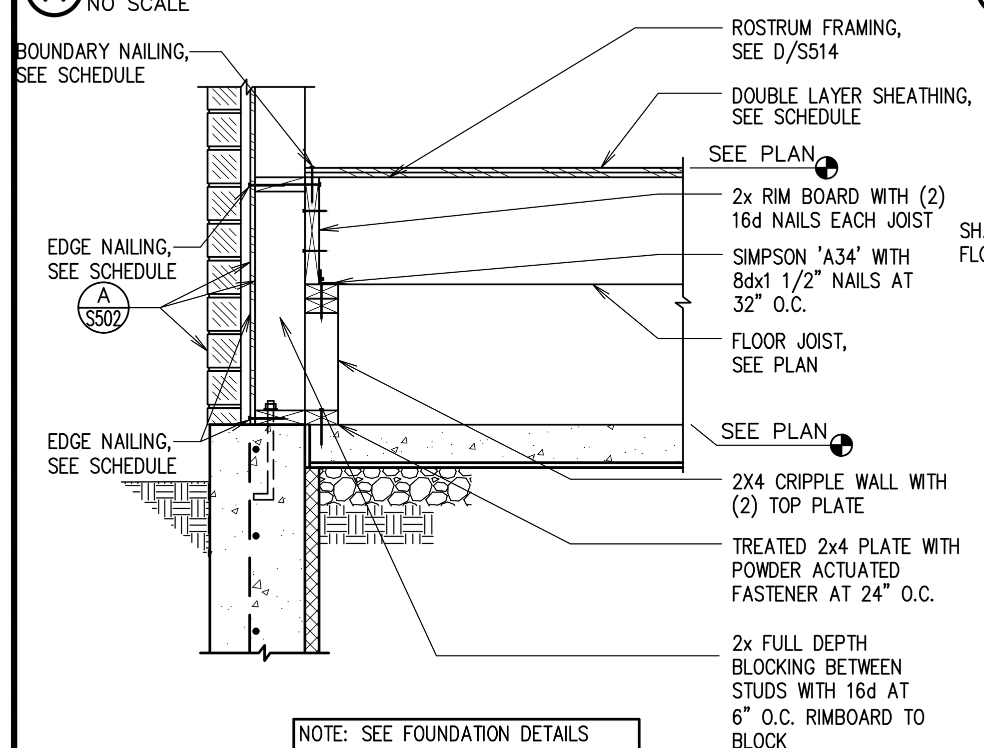
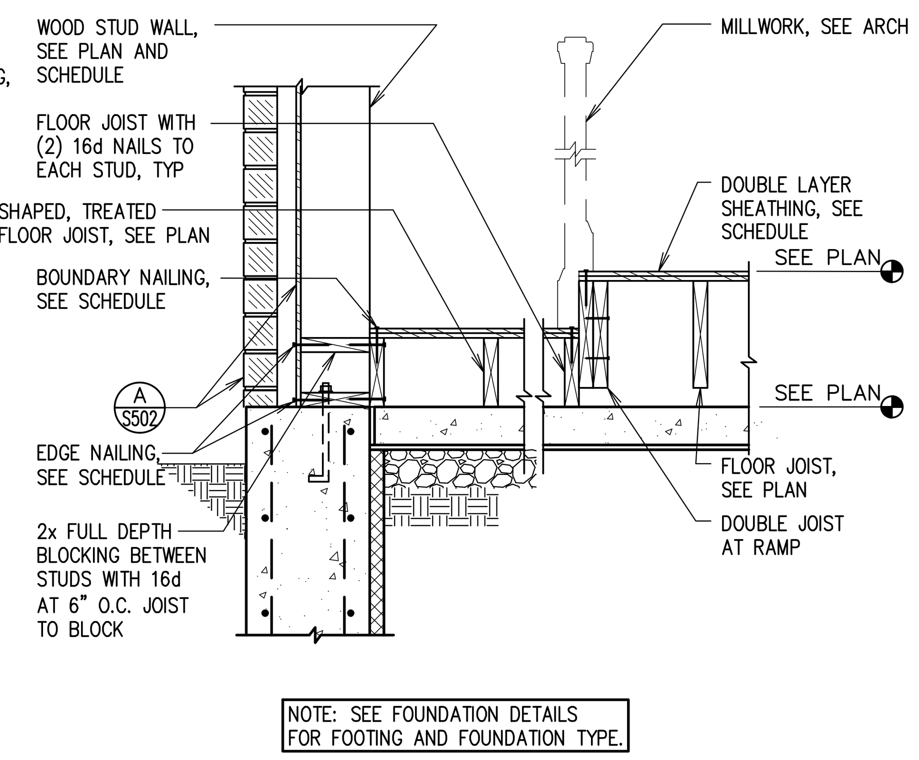


E ROSTRUM DETAIL AT EXTERIOR WALL
NO SCALE



F ROSTRUM DETAIL AT EXTERIOR WALL
NO SCALE



G ROSTRUM RAMP
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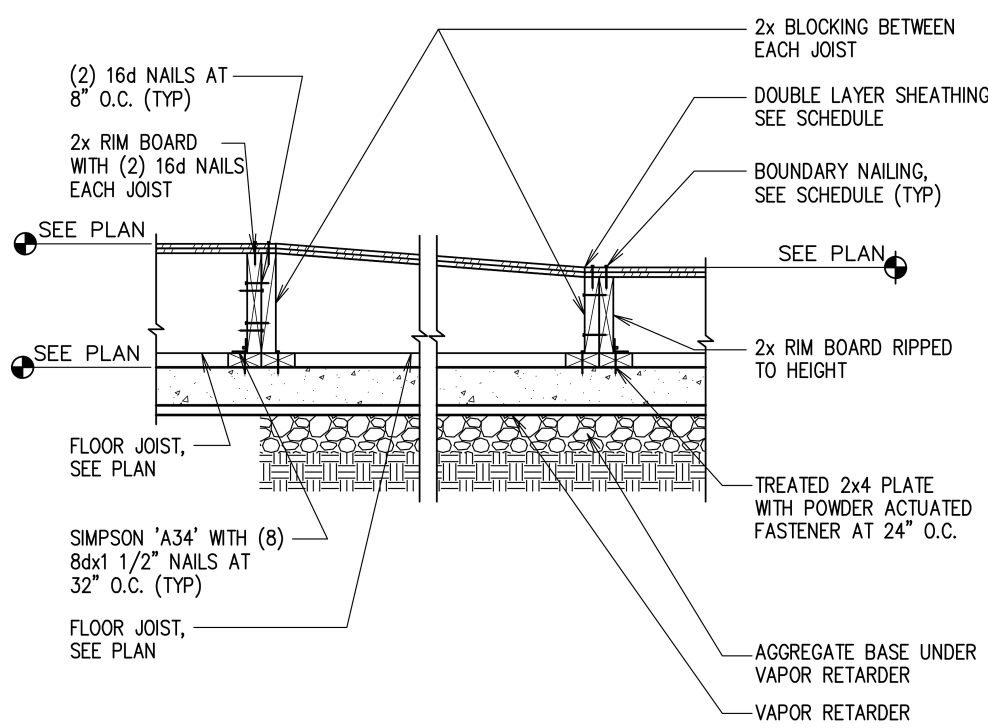

H ROSTRUM RAMP
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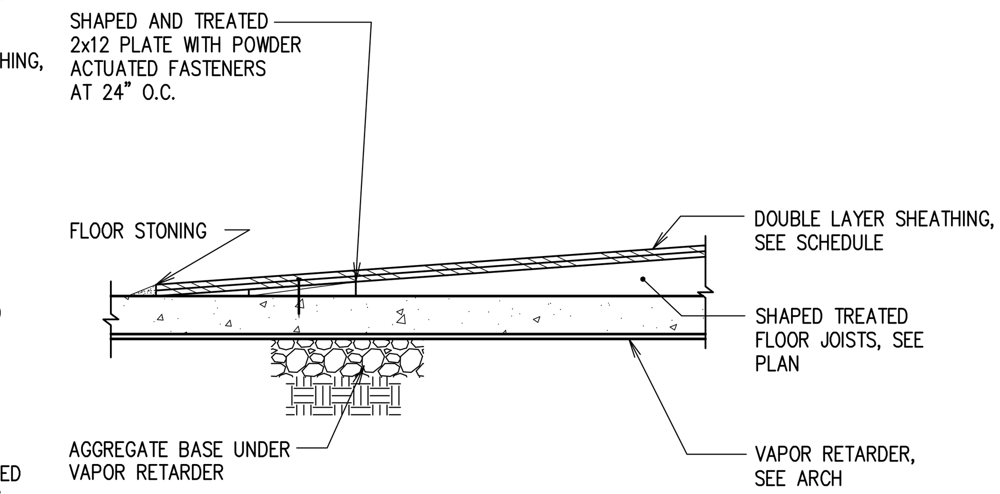

J ROSTRUM RAMP
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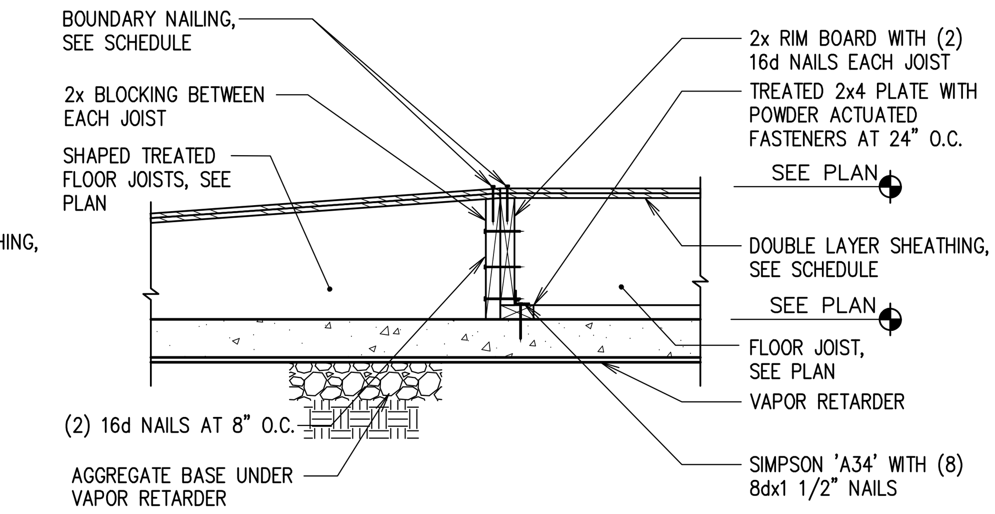

K ROSTRUM RAMP
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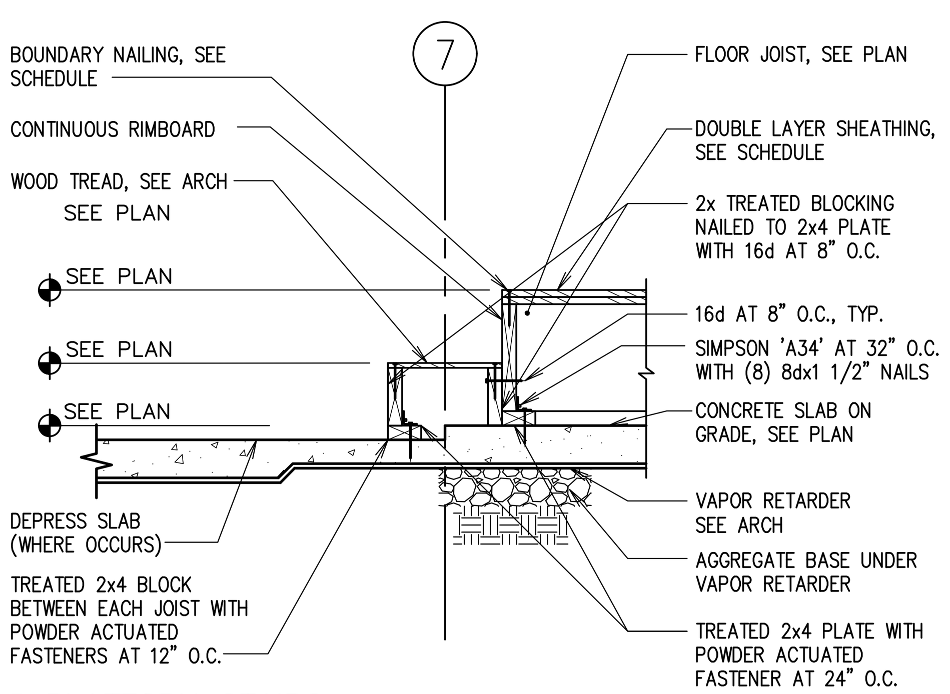
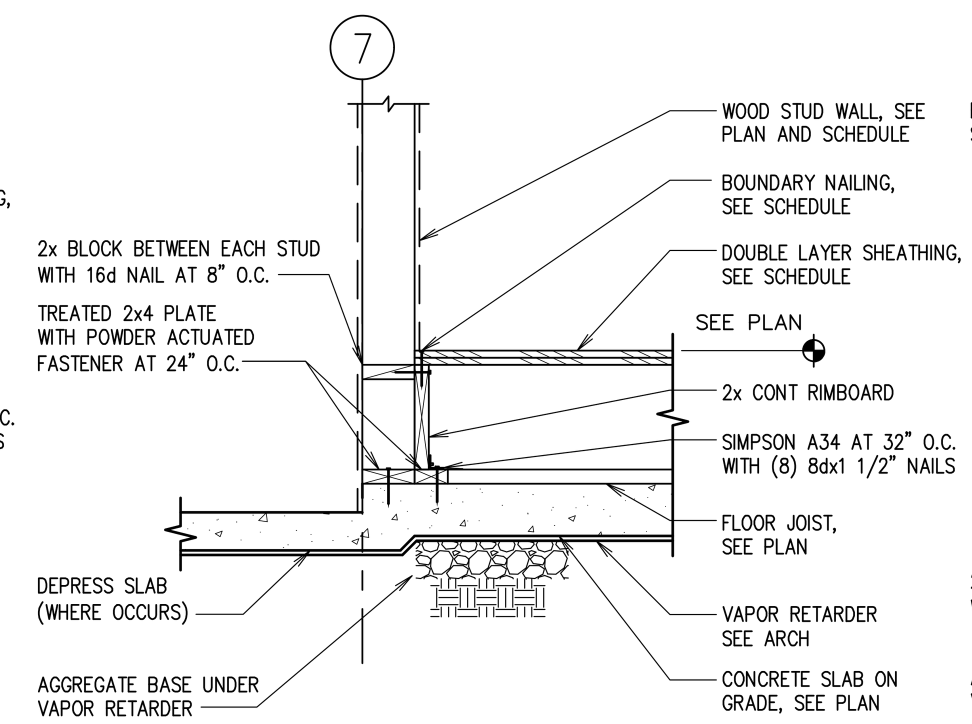
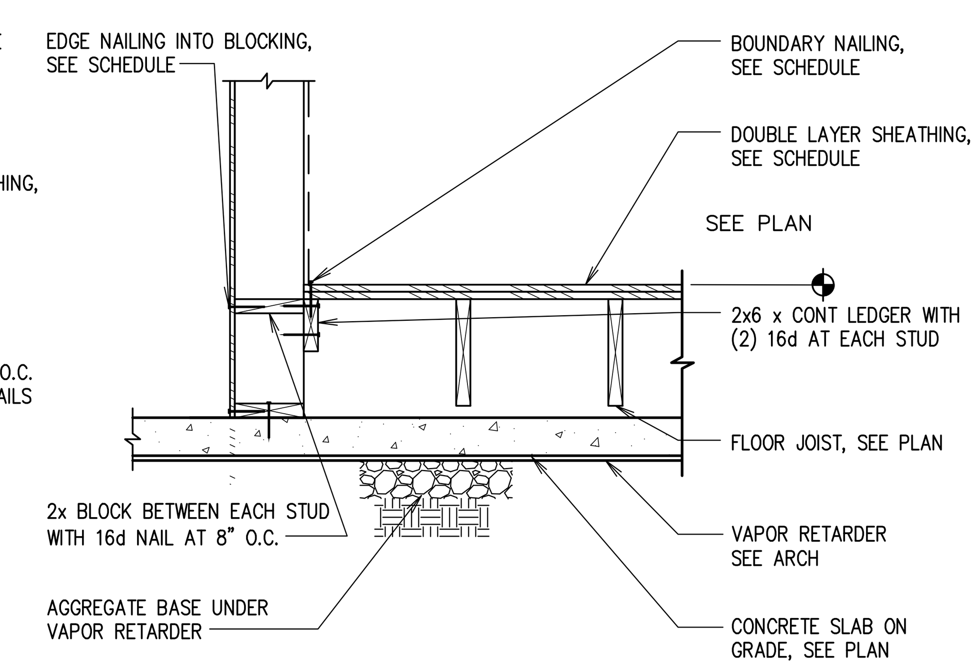


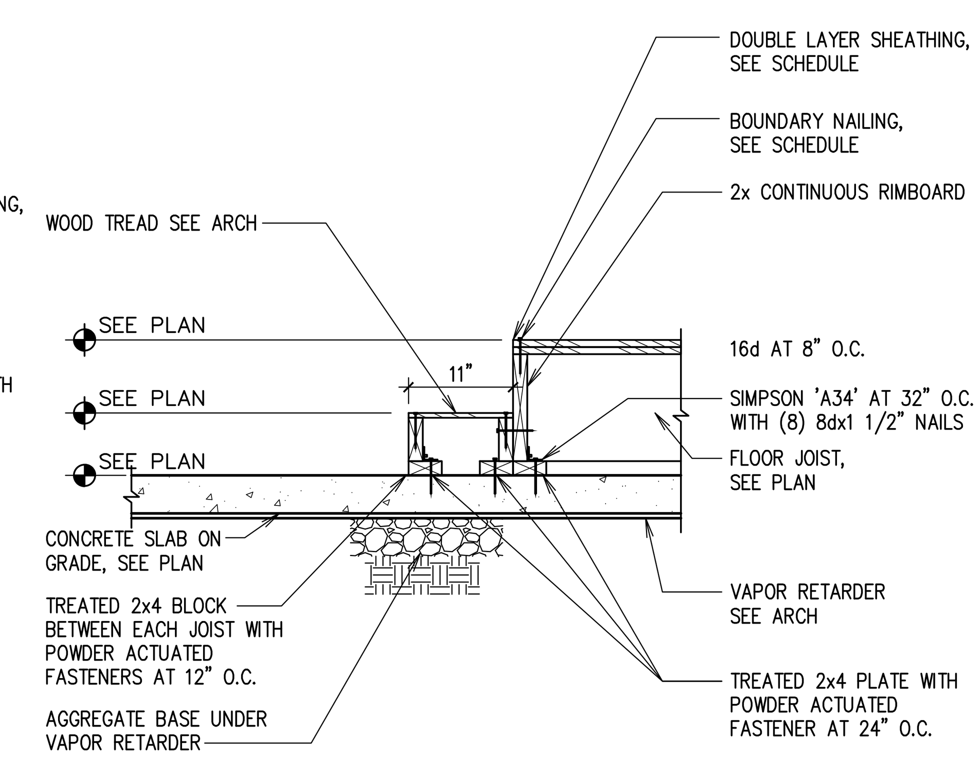
L PLATFORM STAIRS
NO SCALE



M FRONT EDGE OF PLATFORM
NO SCALE



N PLATFORM DETAIL AT WALL
NO SCALE



P PLATFORM STAIRS
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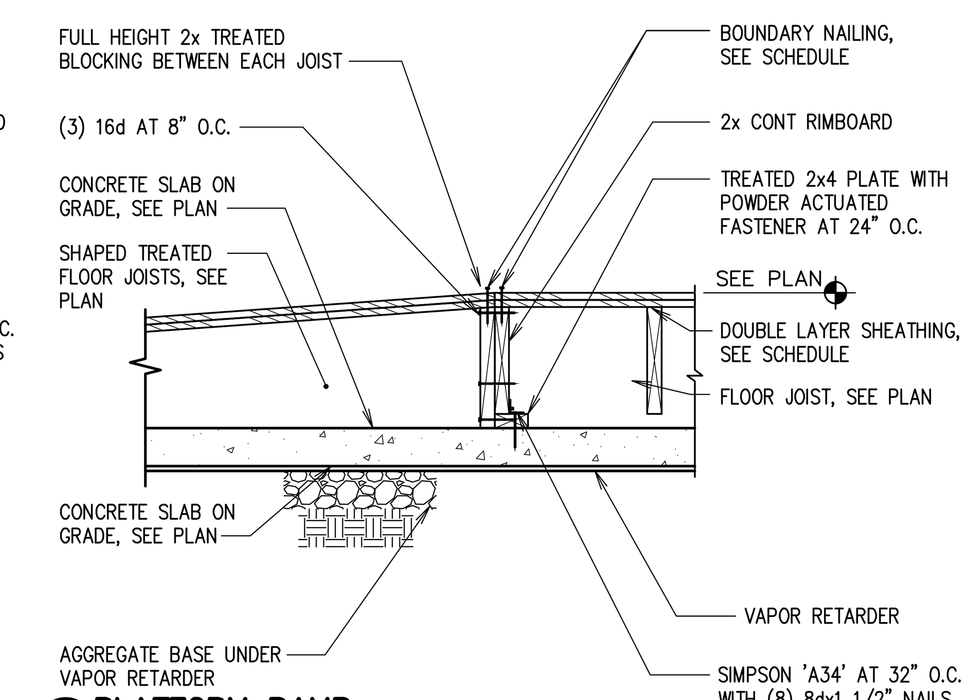
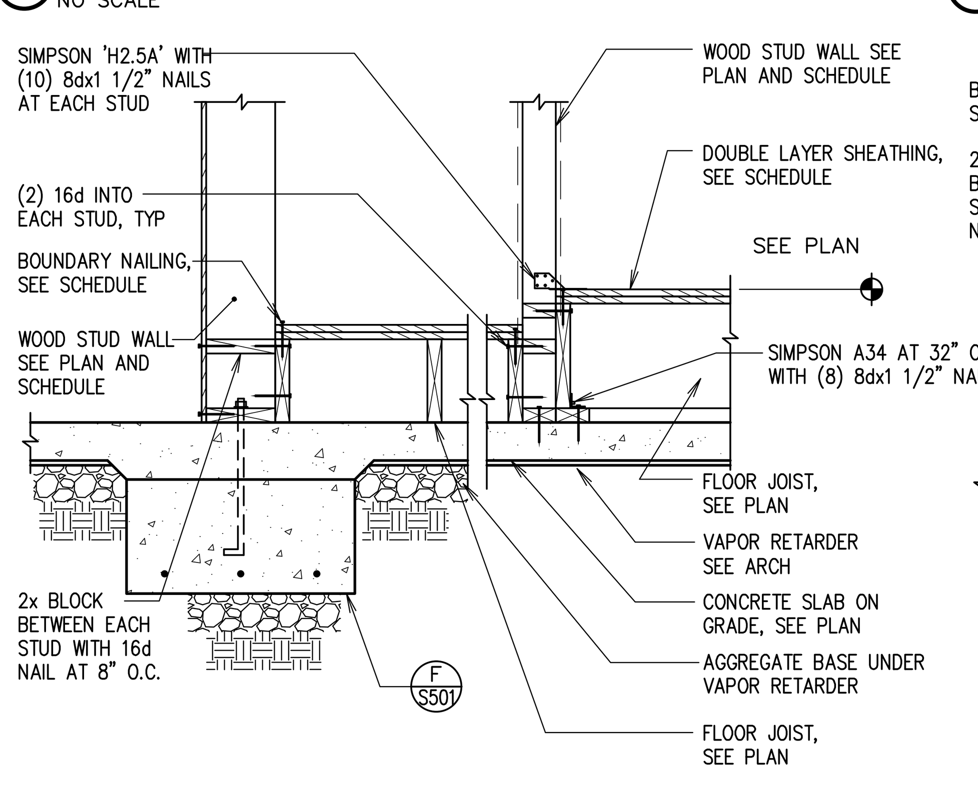


Q PLATFORM RAMP
NO SCALE



R PLATFORM RAMP
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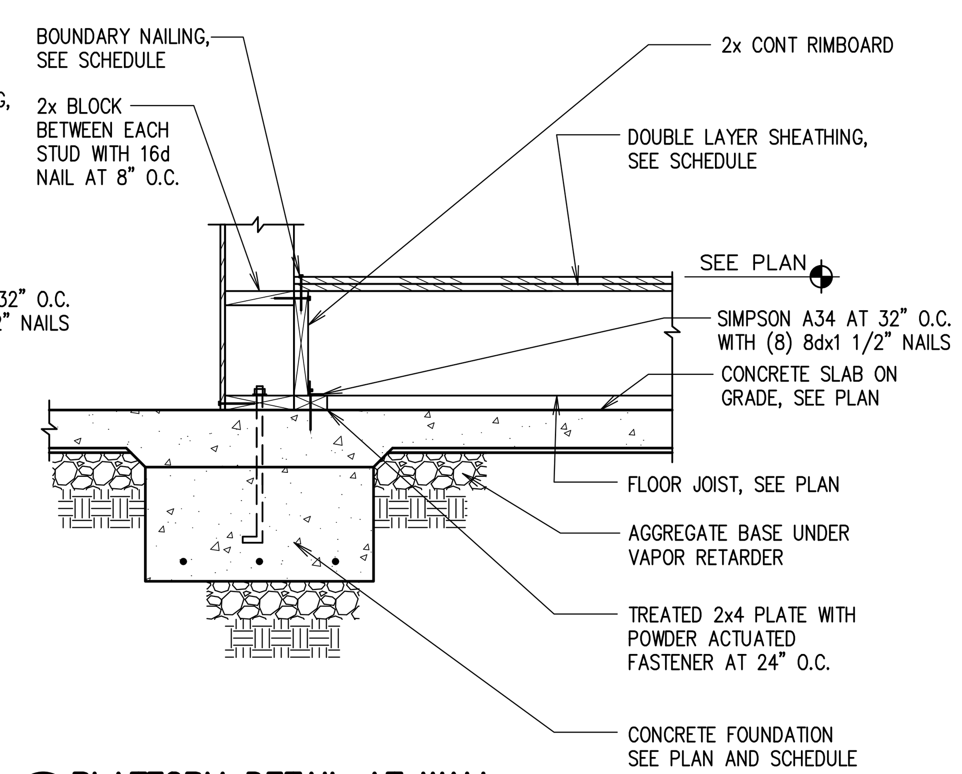
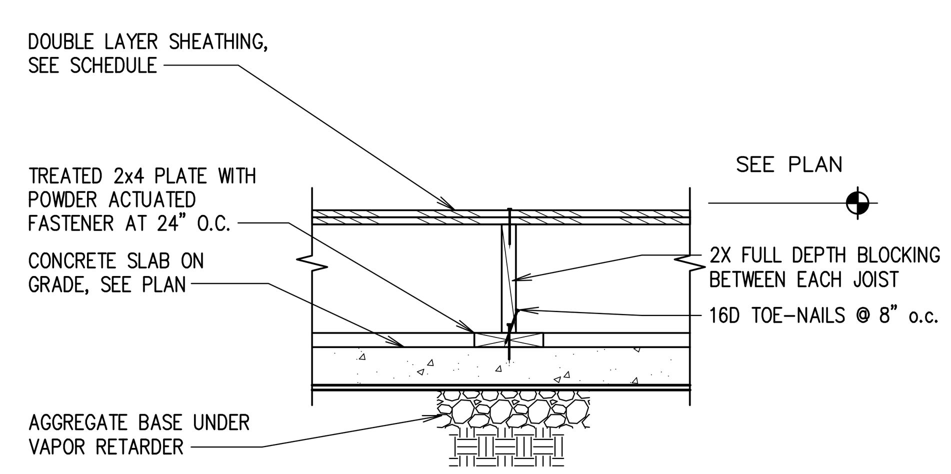
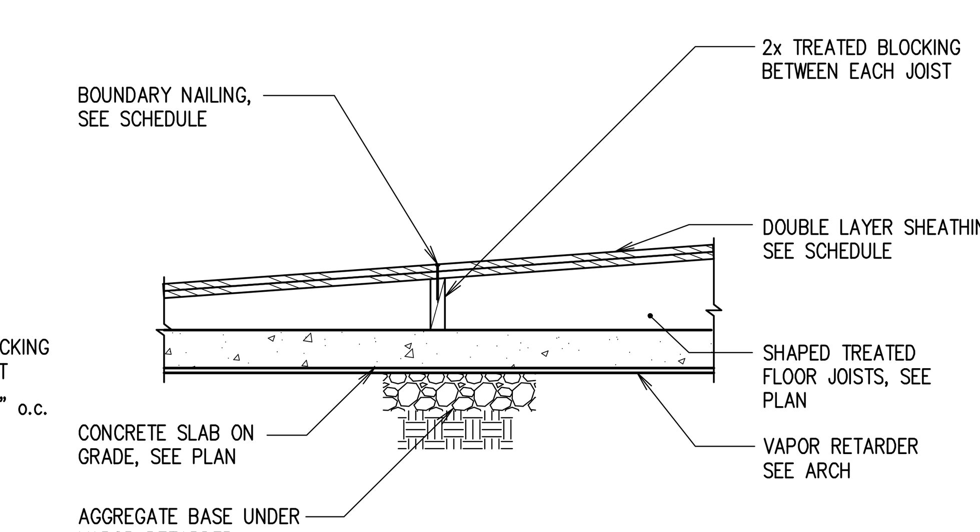


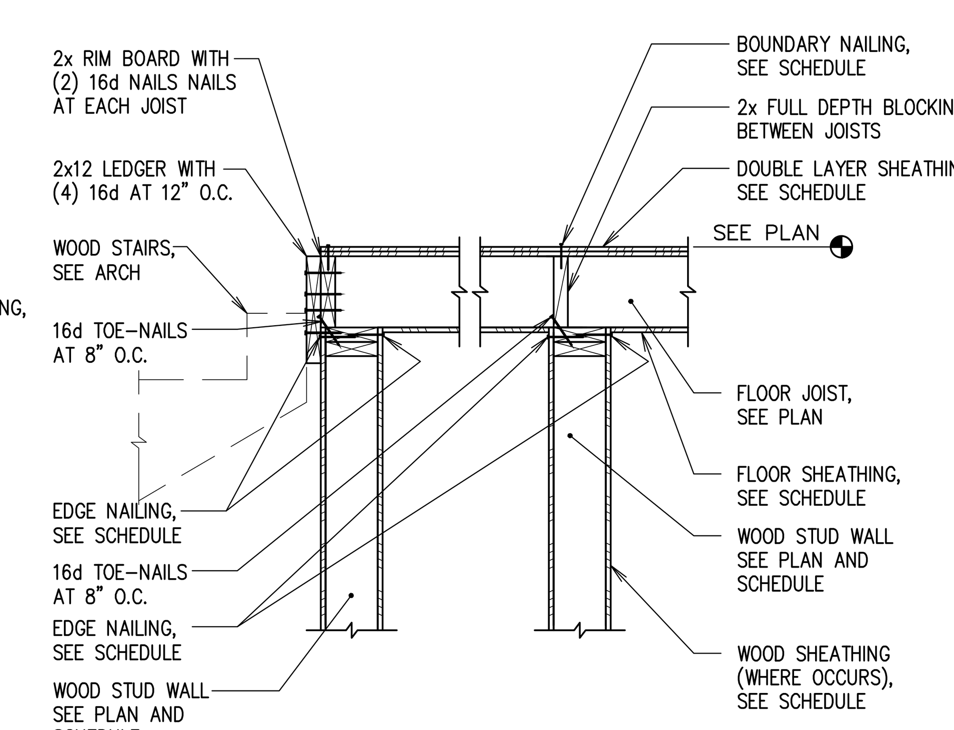
S PLATFORM DETAIL AT WALL
NO SCALE



T JOIST BEARING AT MIDSPAN
NO SCALE



U RAMP DETAIL
NO SCALE



V STAIR STRINGER BEARING AT WOOD STUD WALL
NO SCALE

Architect / Engineer:

ARW ENGINEERS
structural consultants
1594 W. Park Cir. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
BP-ARCHITECTS.NET
P 801.394.3033
F 801.394.9064

Stamp:
PROFESSIONAL STRUCTURAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

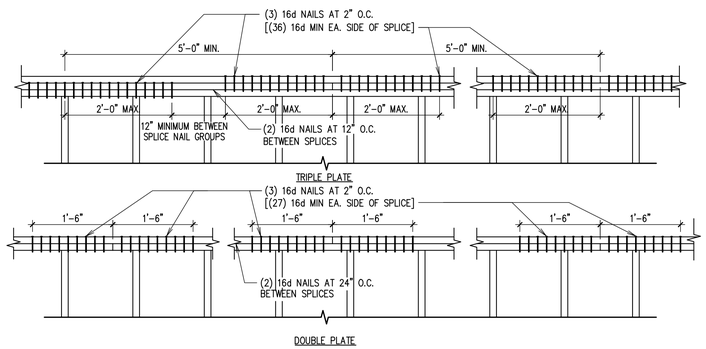
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description
	28-JUL-17	BID SET
	-	-
	-	-
	-	-
	-	-
	-	-
	-	-

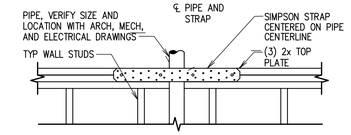
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title:
ROSTRUM AND PLATFORM DETAILS

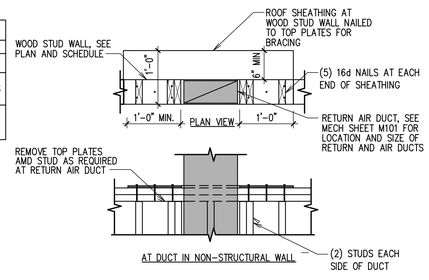
Sheet:
S514



TOP PLATE SPLICE (2x6 WALLS ONLY)	
HOLE SIZE	STRAPS
LESS THAN OR EQUAL TO 2 1/2 DIAMETER	NONE REQUIRED
GREATER THAN 2 1/2 DIAMTER AND LESS THAN OR EQUAL TO 3 1/2" DIAMETER	MSTC28 CENTERED BETWEEN (2) TOP PLATES WITH (20) 16d x 3 1/2" NAILS EACH END
NOTE: HOLE SIZE IS TOTAL ALLOWABLE HOLE DIAMTER, NOT PIPE DIAMETER. DO NOT OVERCUT.	



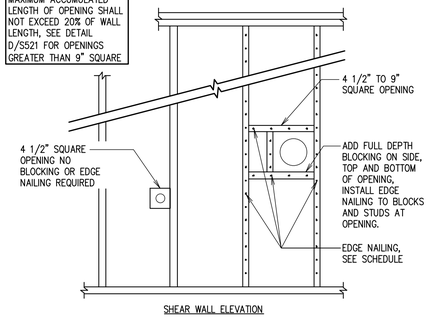
AT EXTERIOR WALL OR INTERIOR SHEAR WALL



AT DUCT IN NON-STRUCTURAL WALL

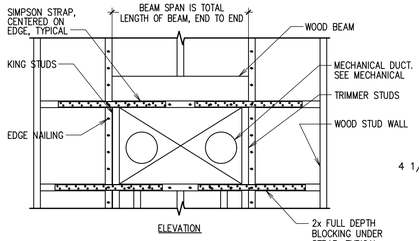
NOTE:
AT CONTRACTORS OPTION MAY USE SIMPSON CS14 METAL STRAP SPLICE ACROSS NARROW FACE OF TOP PLATES WITH MINIMUM OF 16"

NOTE:
MAXIMUM ACCUMULATED LENGTH OF OPENING SHALL NOT EXCEED 20% OF WALL LENGTH, SEE DETAIL D/S521 FOR OPENINGS GREATER THAN 9" SQUARE



SHEAR WALL ELEVATION

A DETAIL
NO SCALE

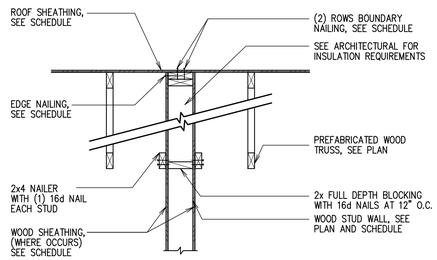


ELEVATION

BEAM SPAN	BEAM SIZE	TRIMMER	KING STUD	SIMPSON STRAP	NAILS
2'-6"	(3) 2x6	(1) 2x	(1) 2x	CS22 x 2'-0"	(24) 8d x 2 1/2"
3'-10'	(3) 2x10	(1) 2x	(1) 2x	CS18 x 2'-0"	(36) 8d x 2 1/2"
5'-2'	(3) 1 3/4"x11 7/8" LVL	(1) 2x	(1) 2x	CS16 x 2'-8"	(44) 8d x 2 1/2"

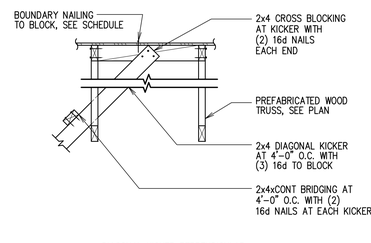
SEE DETAIL 3/S521 FOR OPENINGS < 9" SQUARE

B DETAIL
NO SCALE



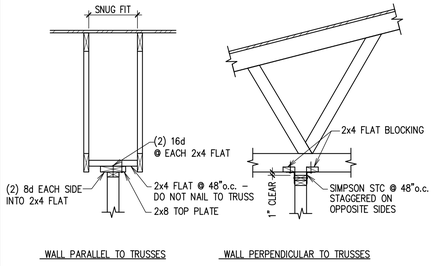
SHEAR WALL TO ROOF SHEATHING

C SHEAR WALL OPENINGS LESS THAN 9" SQUARE
NO SCALE



DIAGONAL KICKER PERPENDICULAR TO TRUSS

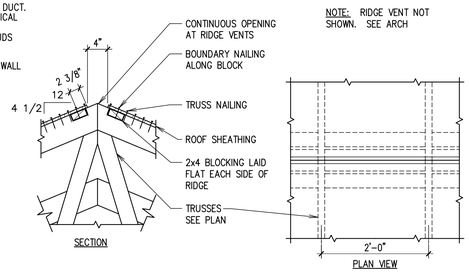
D TYPICAL WALL PENETRATIONS SCHEDULE FOR PENETRATIONS GREATER THAN 9"
NO SCALE



WALL PARALLEL TO TRUSSES

WALL PERPENDICULAR TO TRUSSES

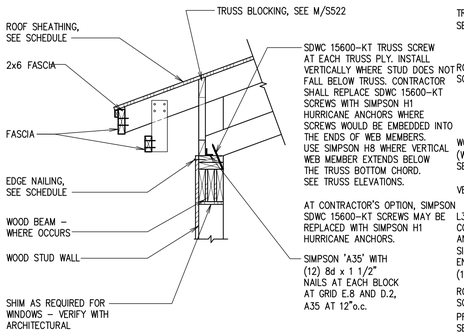
E TYP RIDGE DETAIL AT RIDGE VENT LOCATIONS
NO SCALE



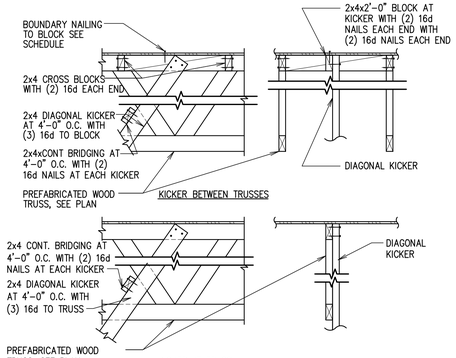
SECTION

PLAN VIEW

F TYPICAL INTERIOR SHEAR WALL TO ROOF CONNECTION
NO SCALE

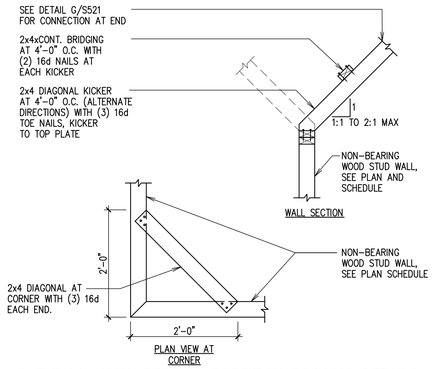


G KICKER CONNECTIONS TO ROOF TRUSSES
NO SCALE



H NON-BEARING WALL TO UNDERSIDE OF TRUSS
NO SCALE

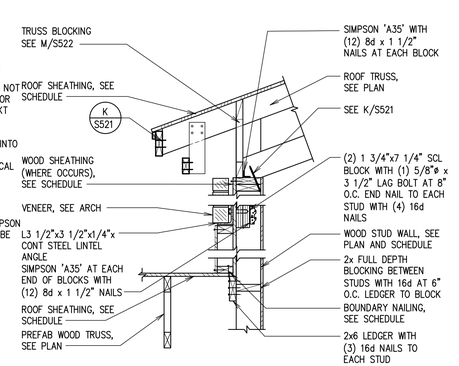
J TYPICAL NON-BEARING PARTITION BRACING DETAILS
NO SCALE



PLAN VIEW AT CORNER

K SOFFIT DETAIL
NO SCALE

L EAVE DETAIL AT ROOF STEP
NO SCALE



M EAVE DETAIL AT ROOF STEP
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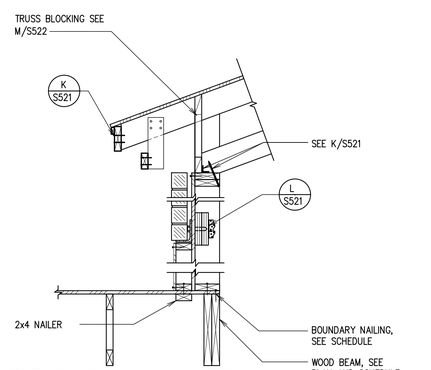


Architect / Engineer:
ARW ENGINEERS
structural consultants
1984 W. Park Dr. Ogden, Utah 84404
ph. 801.782.0000 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
F. 801.394.3064
BOTT PANTONE ARCHITECTS

Stamp:
STATE OF UTAH STRUCTURAL PROFESSIONAL ENGINEER
Matthew C. McBride
No. 353893
08/01/17

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

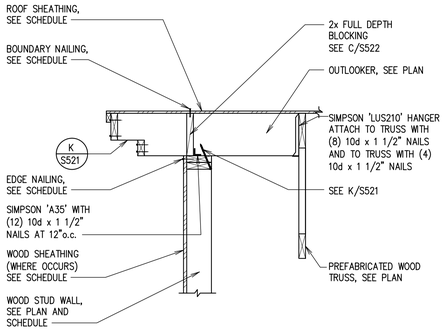
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAHY)	Description
28-JUL-17		BID SET
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

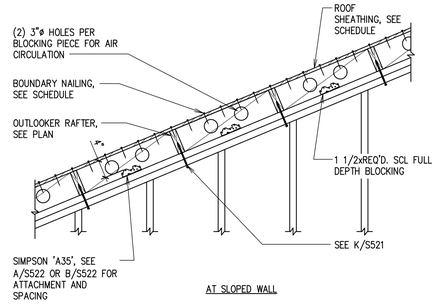
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ROOF DETAILS

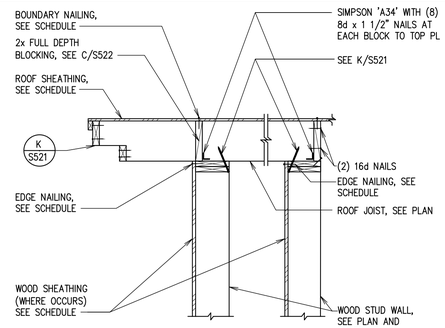
Sheet: S521



A EAVE DETAIL AT OUTLOOKERS
NO SCALE



C SOLID BLOCKING AND ANCHORING DETAIL
NO SCALE



D OUTLOOKER DETAIL AT EAVE
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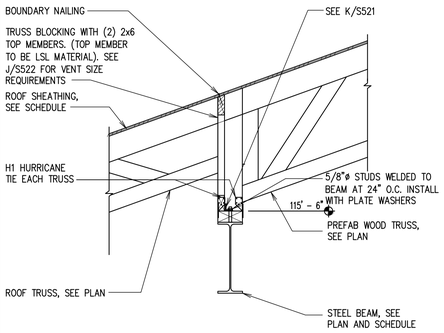
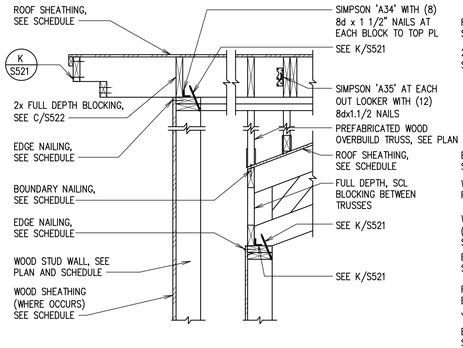
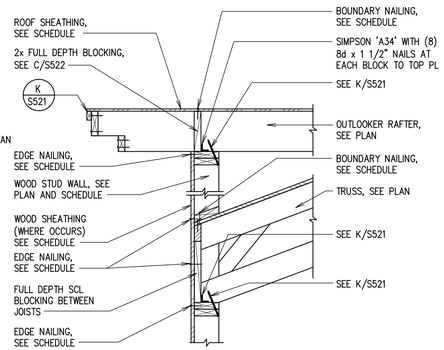


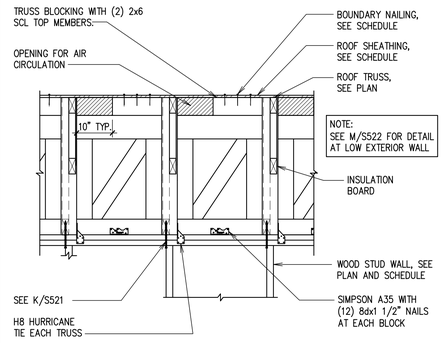
E TRUSS BEARING AT WOOD BEAM
NO SCALE



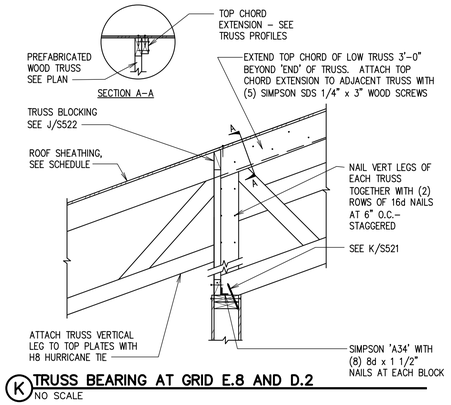
F OUTLOOKER DETAIL AT WALL POP-OUT
NO SCALE



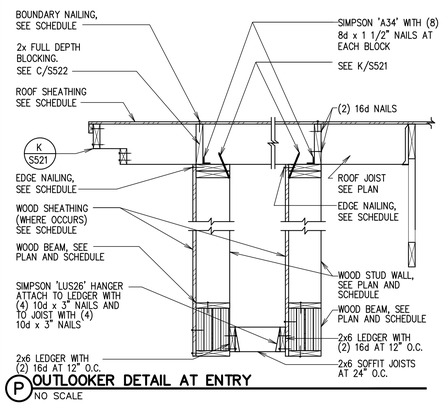
G OUTLOOKER DETAIL AT OVERBUILD
NO SCALE



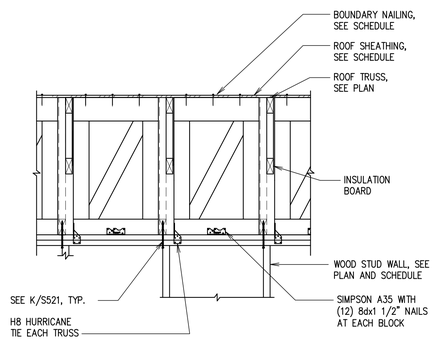
J TRUSS BLOCKING AT INTERIOR WALL
NO SCALE



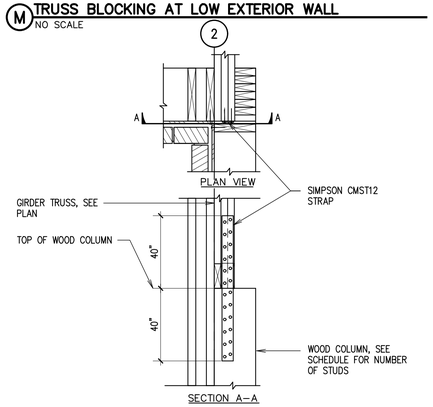
K TRUSS BEARING AT GRID E.8 AND D.2
NO SCALE



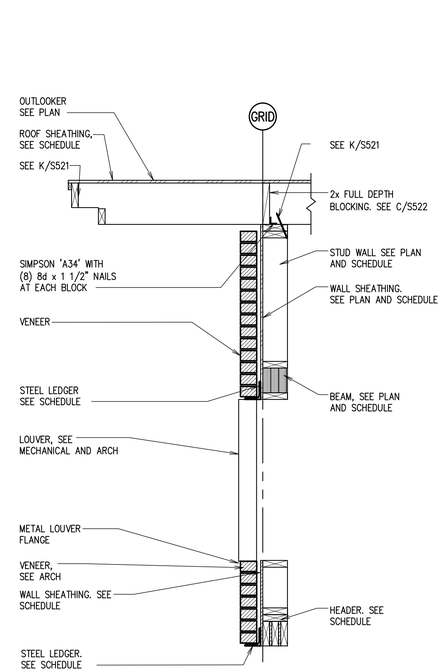
P OUTLOOKER DETAIL AT ENTRY
NO SCALE



M TRUSS BLOCKING AT LOW EXTERIOR WALL
NO SCALE



S GIRDER TRUSS AT EXTERIOR CORNER
NO SCALE



N FRAMING AT MECHANICAL OPENING
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1984 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

BOTT PANTONE ARCHITECTS
620 24TH STREET
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Stamp:
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08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

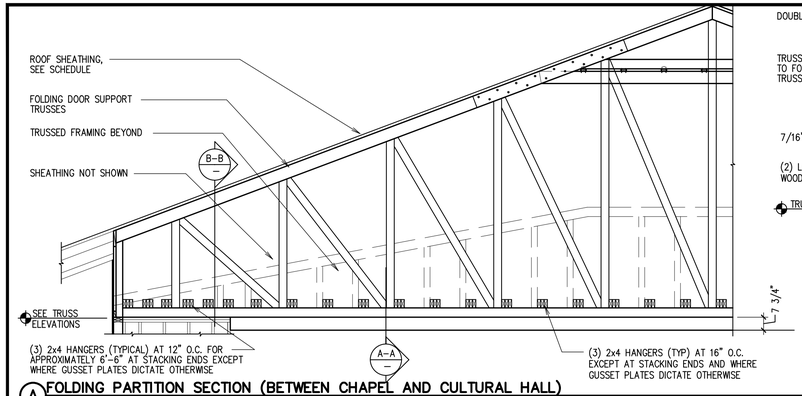
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

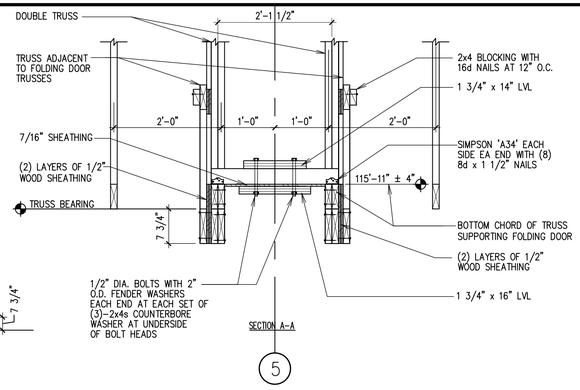
Mark	Date (DAY)	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
28-JUL-17		BID SET

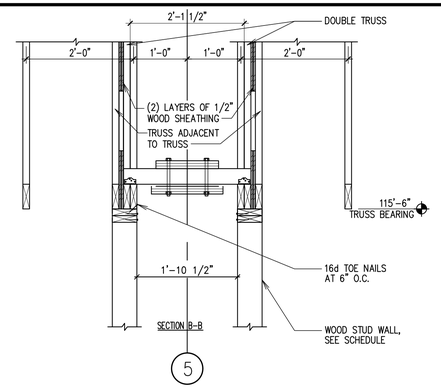
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ROOF DETAILS

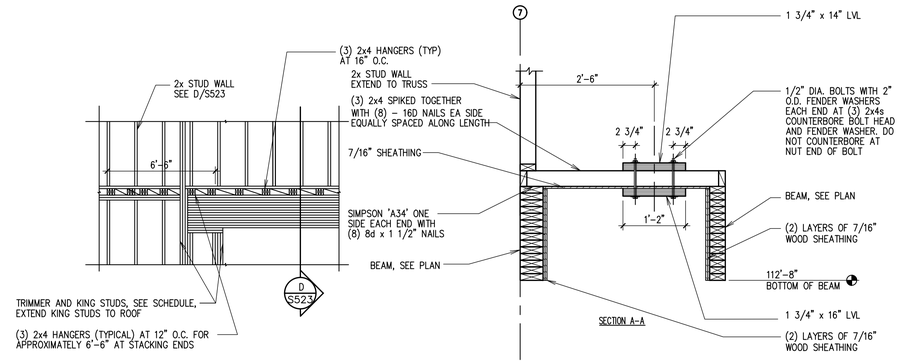
Sheet: S522





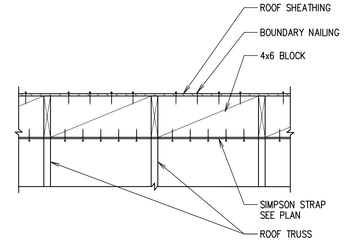


A FOLDING PARTITION SECTION (BETWEEN CHAPEL AND CULTURAL HALL)
NO SCALE

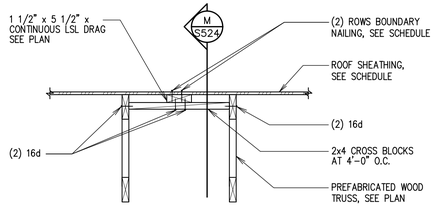


C FOLDING PARTITION SECTION
NO SCALE (BETWEEN PLATFORM AND CULTURAL CENTER)

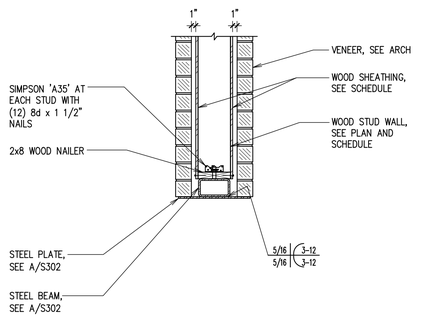
D FOLDING PARTITION BEAM DETAIL
NO SCALE (BETWEEN PLATFORM AND CULTURAL CENTER)



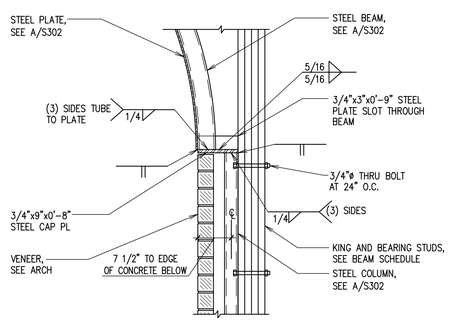
G METAL COIL STRAP DETAIL
NO SCALE



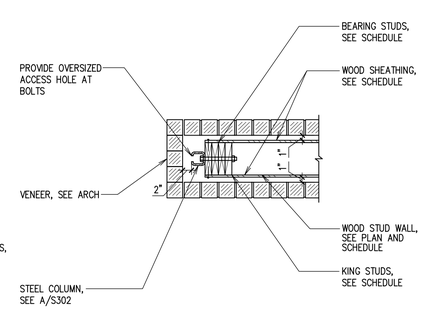
K LVL DRAG SUPPORT BETWEEN TRUSSES
NO SCALE



Q WOOD STUD WALL AT STEEL BEAM
NO SCALE



R STEEL BEAM TO STEEL COLUMN
NO SCALE



S STEEL COLUMN AT WOOD JAMB
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1984 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656
620 24TH STREET
OGDEN, UTAH 84401
801.394.3053
F 801.394.3064
BOTT PANTONE

Stamp:
STRUCTURAL
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

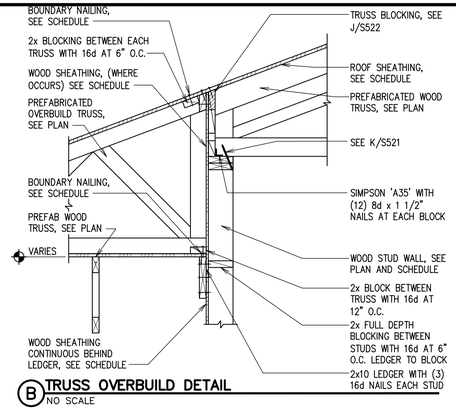
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
-	28-JUL-17	BID SET

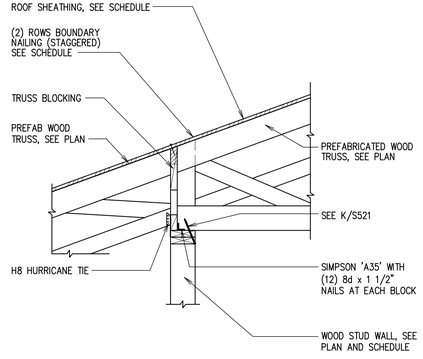
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ROOF DETAILS

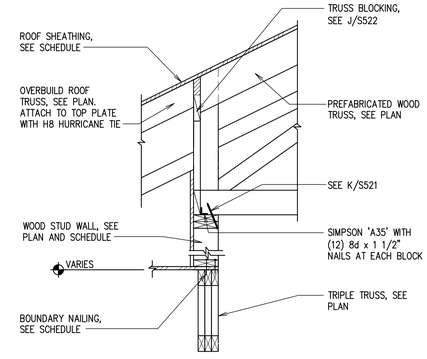
Sheet: S523



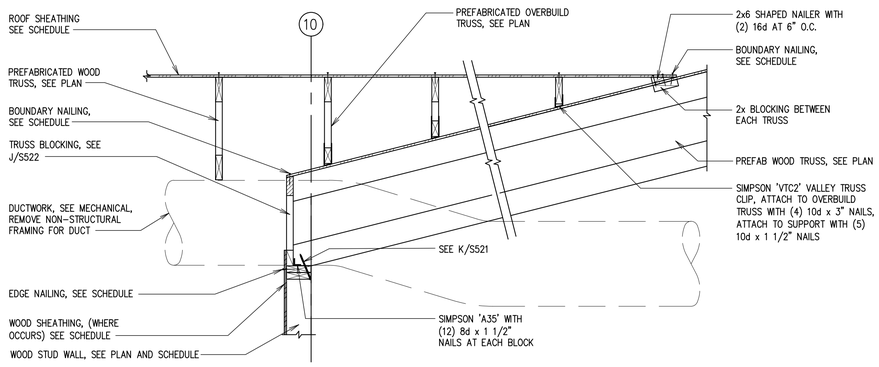
B TRUSS OVERBUILD DETAIL
NO SCALE



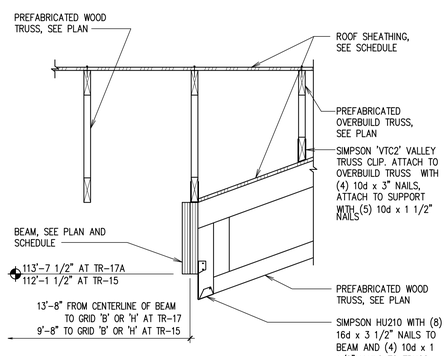
C ROOF TRUSS BEARING AT STUD WALL
NO SCALE



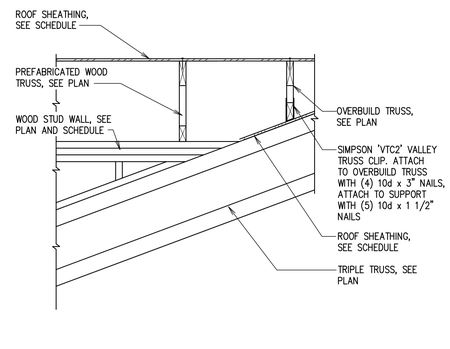
E ROOF TRUSS AND OVERBUILD FRAMING AT BEAM
NO SCALE



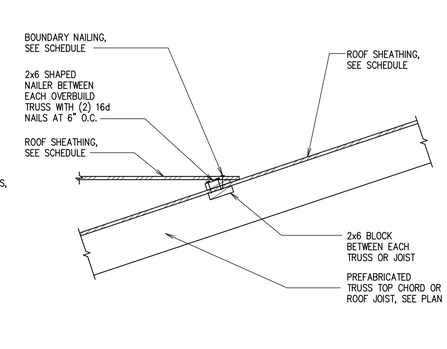
F ROOF TRUSS BEARING AT STUD WALL AT OVERBUILD
NO SCALE



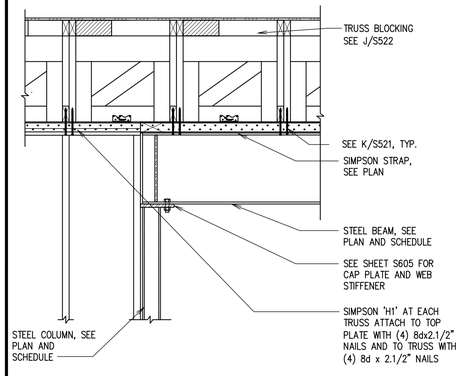
G ROOF TRUSS TO BEAM CONNECTION
NO SCALE



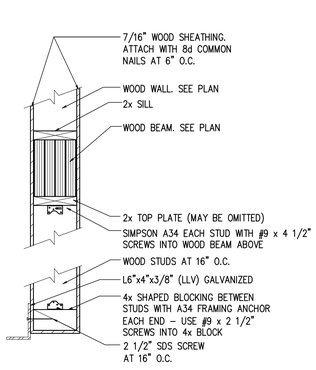
H ROOF TRUSS CONNECTION AT VALLEY BEAM
NO SCALE



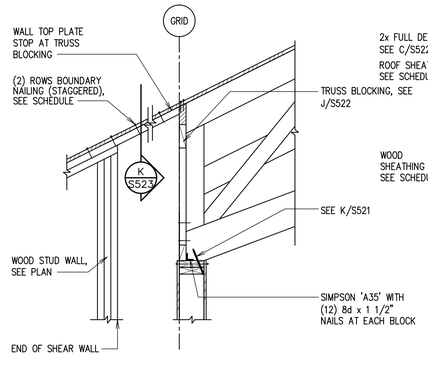
J OVERBUILD BETWEEN EACH OVERBUILD TRUSS
NO SCALE



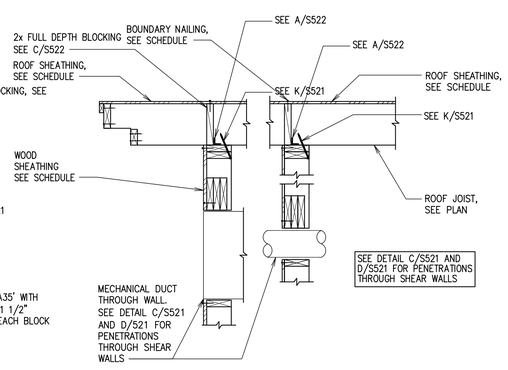
K BEAM BEARING DETAIL
NO SCALE



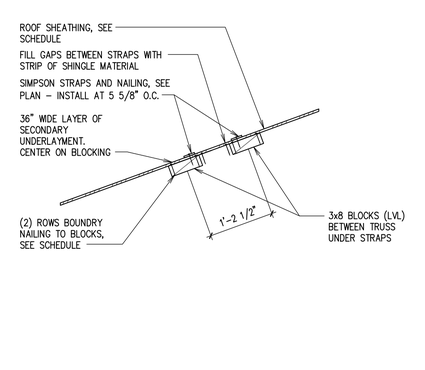
L SUSPENDED ELEMENTS AT OPENINGS
NO SCALE



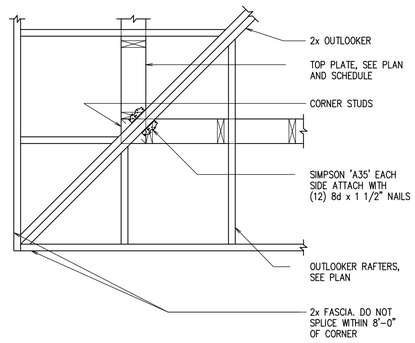
M CONTINUOUS TOP PLATE AT SHEAR WALL
NO SCALE



N MECHANICAL PENETRATION AT WALL POP-OUT
NO SCALE



P ROOF DRAG STRAP DETAIL
NO SCALE



Q CORNER SOFFIT FRAMING [PLAN VIEW]
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1984 W. Park Dr. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3053
F 801.394.3064

BOTT PANTONE ARCHITECTS

Stamp:
Matthew C. McBride
No. 353893
08/01/17
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
28-JUL-17	-	BID SET
	-	
	-	
	-	
	-	
	-	
	-	

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: ROOF DETAILS

Sheet: S524

SCHEDULE A

DESIGN CRITERIA

DESIGN CRITERIA	2015 INTERNATIONAL BUILDING CODE (ASCE 7)	2015 IBC
SEISMIC	RISK CATEGORY	III
	IBC SEISMIC IMPORTANCE FACTOR	I_E = 1.25 (OWNER'S REQUIREMENT)
	MAPPED SPECTRAL RESPONSE ACCELERATION:	
	MAPPED VALUE OF S_S (FOR ALL CALCULATIONS EXCEPT C_S)	S_S = 1.096
	VALUE OF S_S USED TO CALCULATE C_S (LIMIT S_S TO 1.5 PER ASCE7)	S_S = 1.50
	S_1	S_1 = 0.367
	SOIL SITE CLASS	D
	SITE COEFFICIENT F_a	F_a = 1.067
	SITE COEFFICIENT F_v	F_v = 1.667
	DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	S_{DS} = 0.776 S_{D1} = 0.407
	SEISMIC DESIGN CATEGORY	D
	BASIC SEISMIC–FORCE RESISTING SYSTEM.	LIGHT FRAMED WALLS SHEATHED WITH WOOD PANELS
	RESPONSE MODIFICATION FACTOR	R = 6.5
	OVERSTRENGTH FACTOR	W_0 = 3.0
	ANALYSIS PROCEDURE USED.	ASCE 7 EQUIVALENT LATERAL FORCE PROCEDURE
	SEISMIC RESPONSE COEFFICIENT – ULTIMATE	C_S = 0.192
WIND	ASCE 7 DIRECTIONAL PROCEDURE, PART 1	
	WIND SPEED (3 SECOND GUST)	120 M.P.H.
	EXPOSURE CATEGORY	C
	WIND IMPORTANCE FACTOR	NOT APPLICABLE
ROOF	DEAD LOAD	20 P.S.F.
	ROOF SNOW LOAD – THIS LOAD REFLECTS ROOF SNOW LOAD MULTIPLIED BY THE SNOW IMPORTANCE FACTOR (VALUE SHOWN DOES NOT INCLUDE DRIFT LOAD)	33 P.S.F.
	SNOW IMPORTANCE FACTOR	I_S = 1.10
	BUILDING ELEVATION	
EQUIPMENT PLATFORM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	40 P.S.F.
ROSTRUM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	100 P.S.F.
PLATFORM	DEAD LOAD	15 P.S.F.
	LIVE LOAD	125 P.S.F.
SOIL BEARING	GORDON SPIKER HUBER; JOB NO. 0153–080–09; MAY 7, 2009	2500 P.S.F.

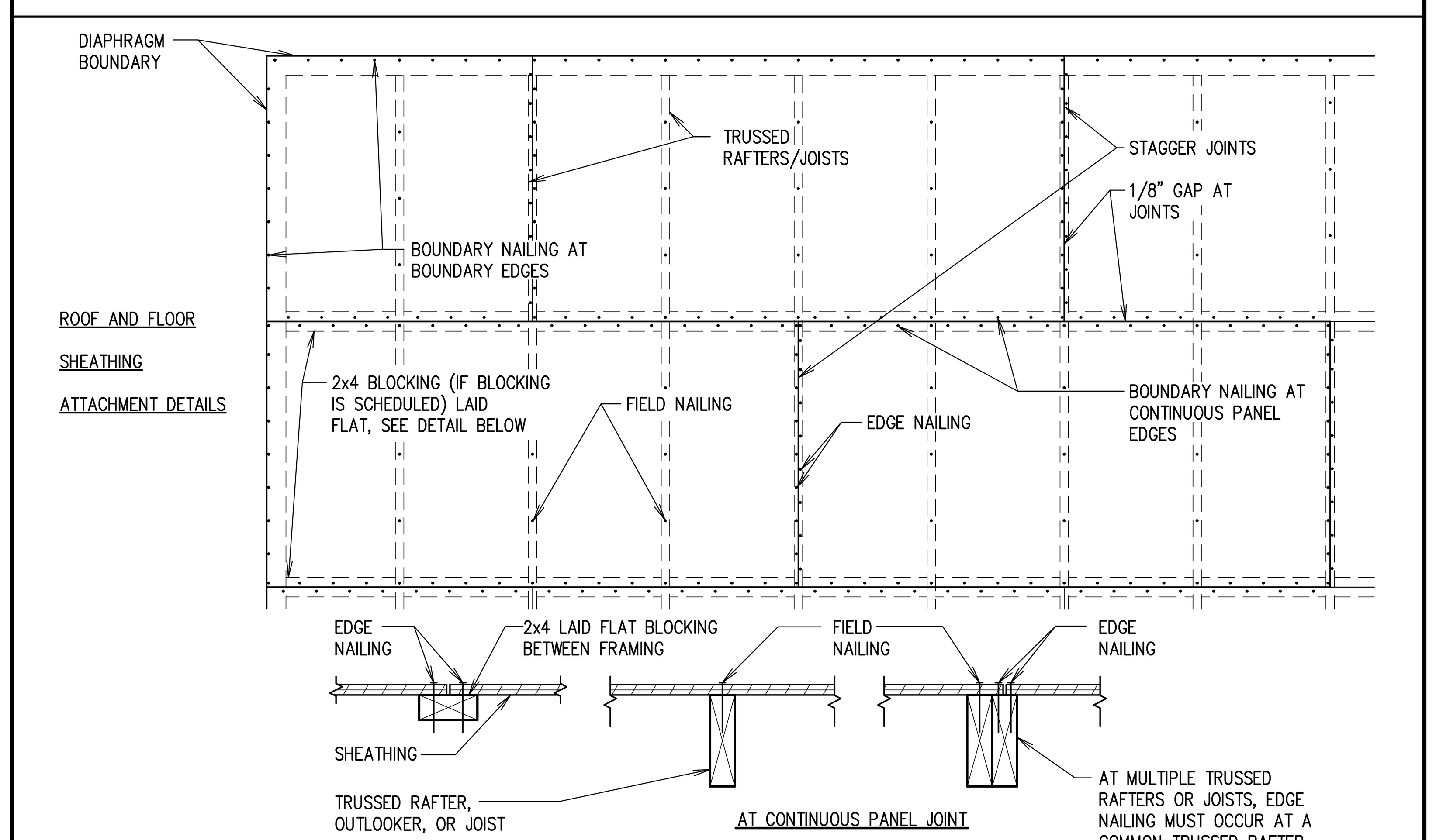
SCHEDULE B

SHEATHING TYPE AND NAILING SCHEDULE

LOCATION	SHEATHING	EDGE NAILING[1]	FIELD NAILING[1]	BOUNDARY NAILING[2]	BLOCKING AT PANEL EDGES
ROOF, UNBLOCKED	19/32" 40/20 SPAN RATING	10d AT 6" O.C.	10d AT 6" O.C.	10d AT 4 1/2" O.C.	YES
ROOF, BLOCKED TYPE 1	19/32" 40/20 SPAN RATING	10d AT 4" O.C.	10d AT 6" O.C.	10d AT 2 1/2" O.C.	YES
EQUIPMENT PLATFORM	23/32" 48/24 SPAN RATING T&G	10d AT 6" O.C.	10d AT 12" O.C.	10d AT 6" O.C.	NO
ROSTRUM	(2) LAYERS 19/32" 40/20 SPAN RATING	10d AT 6" O.C.	10d AT 12" O.C.	10d AT 6" O.C.	NO
PLATFORM	(2) LAYERS 19/32" 40/20 SPAN RATING ON TOP OF JOISTS	10d AT 6" O.C.	10d AT 12" O.C.	10d AT 6" O.C.	NO
WALLS	SEE WOOD WALL SCHEDULE A/S602				

1. SEE PARTIAL PLAN BELOW FOR LOCATION OF BOUNDARY, EDGE, AND FIELD NAILING.
2. ALL FASTENERS FOR PRESERVATIVE AND FIRE RETARDANT TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE–TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.
3. FOR EQUIPMENT PLATFORM, ROSTRUM, AND PLATFORM SHEATHING SHALL BE GLUED AND NAILED TO THE STRUCTURE

ROOF AND FLOOR SHEATHING ATTACHMENT DETAILS



ALL ROOF AND FLOOR SHEATHING EDGES MUST BE SUPPORTED BY TRUSSED RAFTER, JOIST OR 2x4 LAID FLAT IF BLOCKING SCHEDULED.

SCHEDULE C

STATEMENT OF SPECIAL INSPECTION

QUALITY ASSURANCE (TESTING AND INSPECTION) AS REQUIRED BY THE OWNER AND THE IBC, SHALL BE PROVIDED BY AN INDEPENDENT AGENCY EMPLOYED BY THE OWNER. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE REQUIRED INSPECTIONS. ALL TESTING AND INSPECTION REPORTS SHALL BE SENT WITHIN 24 HOURS OF COMPLETION OF THE TEST OR INSPECTION TO THE OWNER, ARCHITECT, APPLICABLE ENGINEER, BUILDING OFFICIAL AND GENERAL CONTRACTOR. ITEMS REQUIRING QUALITY ASSURANCE (TESTING AND INSPECTION) ARE:

1. SOILS/ENGINEERED FILL:
   A. REFER TO SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   B. PRIOR TO PLACEMENT OF THE PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS
   C. DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLIES WITH THE SPECIFICATIONS
   D. THE INSPECTOR SHALL DETERMINE THAT THE IN–PLACE DRY DENSITY OF THE ENGINEERED FILL MATERIAL COMPLIES WITH THE SPECIFICATIONS
      I. CONTINUOUS FOOTING ENGINEERED FILL: SEE SPECIFICATIONS
      II. SPOT FOOTING ENGINEERED FILL: SEE SPECIFICATIONS
      III. SITE WORK ENGINEERED FILL (PAVED AREAS, SIDEWALKS, TRENCHES, ETC): SEE SPECIFICATIONS.
      IIII. BUILDING PAD ENGINEERED FILL: SEE SPECIFICATIONS
2. CONCRETE:
   A. REFER TO SPECIFICATIONS FOR SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   B. CYLINDERS, SLUMP, TEMPERATURE, AND AIR–ENTRAINMENT TESTS SHALL BE PERFORMED
   C. CONCRETE TO BE PROTECTED DURING COLD AND HOT WEATHER
3. PREFABRICATED METAL PLATE WOOD TRUSSES:
   A. REFER TO SPECIFICATIONS FOR CERTIFICATION REQUIREMENTS
   B. THE INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS OF INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS
   C. REFER TO SPECIFICATIONS FOR INSPECTION OF PREFABRICATED WOOD TRUSSES LONGER THAN 60' LONG
4. WOOD DIAPHRAGMS AND SHEAR WALLS:
   A. FOR WALLS AND ROOF AREAS WHERE THE NAIL SPACING IS 4 INCHES AND LESS ON CENTER, THE INSPECTOR SHALL VERIFY WOOD PANEL SHEATHING, GRADE, AND THICKNESS, NOMINAL SIZE OF FRAMING MEMBERS, NAIL SIZE AND SPACING, BOLTING, SILL PLATE AND ANCHOR BOLTS, AND OTHER FASTENING OF COMPONENTS
   B. ALL HOLDOWNS SHALL BE INSPECTED TO VERIFY CONFORMANCE WITH CONTRACT DOCUMENTS
5. EPOXY ANCHORS:
   A. REFER TO SPECIFICATIONS FOR ADDITIONAL AND SPECIFIC TESTING AND INSPECTION REQUIREMENTS
   B. INSPECTION SHALL VERIFY ALL DRILLED HOLE SIZES AND DEPTHS PRIOR TO INSTALLATION OF EPOXY AND ANCHOR ROD. SEE SPECIFICATIONS FOR QUANTITY OF TESTING
6. STEEL:
   A. INSPECTION DURING FABRICATION IS NOT REQUIRED IF THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT INSPECTION. FIELD TESTING AND FIELD INSPECTION OF STEEL IS NOT REQUIRED
7. MASONRY:
   A. TESTING AND INSPECTION OF MASONRY IS NOT REQUIRED

SCHEDULE E

DEFERRED SUBMITTALS

FOR THE PURPOSE OF THIS SECTION, DEFERRED SUBMITTALS ARE DEFINED PER THE IBC. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER, ARCHITECT, AND BUILDING OFFICIAL FOR THEIR REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. DEFERRED STRUCTURAL SUBMITTALS FOR THIS PROJECT ARE:

1. PREFABRICATED METAL PLATE WOOD TRUSSES

SCHEDULE G

WIND COMPONENTS AND CLADDING

WIND ZONE	EFFECTIVE WIND AREA (SQ FT.)				
	10 sq ft.	20 sq ft.	50 sq ft.	100 sq ft.	500 sq ft.
1	30.1	29.3	28.2	27.3	27.3
2	52.4	54.8	42.7	38.5	38.5
3	77.6	72.5	65.9	60.8	60.8
4	35.7	34.2	32.3	30.8	27.3
5	44.1	41.1	37.2	34.2	27.3

SCHEDULE F

SCHEDULE OF CONSTRUCTION MATERIALS

CONCRETE	LOCATION	28–DAY COMPRESSIVE STRENGTH
	EXTERIOR CONCRETE (EXPOSED TO FREEZING AND/OR DE–ICERS)	4,500 P.S.I. MIX TYPE F
	FOOTINGS	3,000 P.S.I. MIX TYPE A
	FOUNDATION WALLS (EXPOSED TO FREEZING AND DEICERS)	4,500 P.S.I. MIX TYPE F
	INTERIOR SLABS ON GRADE	3,500 P.S.I. MIX TYPE B
	NOTES: 1. CONCRETE STRENGTH USED IN DESIGN IS 2500 P.S.I.	2. SEE SPECIFICATIONS 03–3111 FOR DEFINITION OF MIX TYPE.
STRUCTURAL STEEL	APPLICATION	MATERIAL
	SQUARE OR RECTANGULAR HSS	ASTM A500 (46ksi) GRADE B
	WIDE FLANGE SECTIONS	ASTM A992 (50ksi)
	OTHER SHAPES AND PLATES	ASTM A36 (36ksi)
	NOTES: 1. WELDING OF STRUCTURAL STEEL SHALL BE ACCORDANCE WITH AWS D1.1	
REINFORCING STEEL	FIELD BENT BARS	ALL OTHER BARS
	ASTM A615, GRADE 40 OR GRADE 60 (SEE LAP SPLICE SCHEDULE H/S003 FOR LAP LENGTHS)	ASTM A615, GRADE 60 (SEE LAP SPLICE SCHEDULE H/S003 FOR LAP LENGTHS)
MASONRY	MATERIAL	SPECIFICATION
	CONCRETE MASONRY UNITS (CMU)	LIGHTWEIGHT GRADE N, TYPE 1 (MIN. UNIT STRENGTH OF 1900 PSI) f'm = 1500 PSI. ASTM C90
	MORTAR	TYPE "S", 1,800 PSI MINIMUM COMPRESSIVE STRENGTH
	GROUT	2,000 PSI MINIMUM COMPRESSION STRENGTH

WOOD

	APPLICATION	SPECIES GROUP AND MINIMUM GRADE (ANY SPECIES AND GRADE LISTED MAY BE USED FOR ANY OF THE DESCRIBED APPLICATIONS).		
DIMENSION LUMBER	TOP PLATES, STRUTS, ROOF JOISTS, FLOOR JOISTS, MISC. FRAMING, HEADERS, BEAMS, LEDGERS	DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE MSR	#2 OR BETTER #1 OR BETTER #2 OR BETTER 1650F – 1.5E OR BETTER	
	BLOCKING	DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE MSR	#2 OR BETTER #2 OR BETTER #2 OR BETTER 1650F – 1.5E OR BETTER	
	POSTS AND TIMBERS 5" x 5" AND LARGER	DOUGLAS FIR–LARCH SOUTHERN PINE	#1 OR BETTER #1 OR BETTER	
	SILL PLATES	DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE SCL	2x4, 1 1/2"x3 1/2" SCL STANDARD OR BETTER STANDARD OR BETTER STANDARD OR BETTER 1.3E	2x6, 2x8, 2x10, 1 1/2"x9 1/2" SCL, 1 1/2"x11 7/8" SCL #2 OR BETTER #2 OR BETTER #2 OR BETTER 1.5E
	TRUSSED RAFTERS (CHORDS AND WEBS)	SPRUCE PINE FIR DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE MSR	#2 OR BETTER #2 OR BETTER #1 OR BETTER #2 OR BETTER 1650F – 1.5E OR BETTER	
	EXTERIOR WALL STUDS AND INTERIOR STRUCTURAL WALL STUDS	DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE SCL	2x4 #2 OR BETTER #1 OR BETTER #2 OR BETTER	2x6 #2 OR BETTER #1 OR BETTER #2 OR BETTER
	INTERIOR NON–STRUCTURAL WALL STUDS	DOUGLAS FIR–LARCH HEM FIR SOUTHERN PINE	2x4 STANDARD, UTILITY, CONSTRUCTION, OR BETTER STANDARD, UTILITY, CONSTRUCTION, OR BETTER STANDARD, UTILITY, CONSTRUCTION, OR BETTER	2x6 #2 OR BETTER #2 OR BETTER #2 OR BETTER

		MINIMUM PROPERTY VALUES[1] – P.S.I.				
		Fb	Fv	Fc ⊥	Fc ∥	E x 10^6
STRUCTURAL COMPOSITE LUMBER (SCL) SUCH AS LVL AND LSL	1–1/2" x =< 5–1/2" (SEE NOTE 4 AND 5)	1,700	220	575	1,400	1.3
	1–1/2" x ALL OTHER DEPTHS (SEE NOTE 4 AND 5)	2,250	220	575	1,950	1.5
	1–3/4" x ALL DEPTHS	2,600	285	750	2,350	1.9
	3–1/2" x ALL DEPTHS	1,700	285	680	1,400	1.3

		MINIMUM PROPERTY VALUES[1] – P.S.I.				
		Fb	Fv	Fc ⊥	Fc ∥	E x 10^6
GLU–LAM COLUMNS	5 1/8" x ALL DEPTHS	2,400	265	650	1,800	2.0

		MINIMUM PROPERTY VALUES[1] – P.S.I.				
		Fb TENSION ZONE	Fb COMPRESSION ZONE STRESSED IN TENSION	Fv	Fc	E x 10^6
GLUED LAMINATED BEAMS	24F–V4 DF/DF OR 24F–E4 SP/SP WITH STRESS CLASS 24F–1.8E EXCEPT AT BM–24, USE 24F–V8	2400	2400	265	1600	1.8

NOTES:
1. DESIGN VALUES ARE FOR NORMAL DURATION. REPETITIVE FRAMING FACTORS AND SIZE FACTORS HAVE NOT BEEN APPLIED.
2. WEB STIFFENERS ARE REQUIRED AT ALL I–JOISTS BEARING LOCATIONS.
3. 1 3/4" MEMBERS MAY BE USED TO REPLACE 1 1/2" SCL MEMBERS. ADJUST DIMENSIONS IN PLANS AND DETAILS ACCORDINGLY.
4. LIMIT THE MODULUS OF ELASTICITY OF 1 1/2" LSL MEMBERS TO 1.55x10^6psi.
5. LSL WOOD IS HARDER AND DENSER THAN LVL WOOD. FRAMER MUST HAVE EQUIPMENT THAT WILL DRIVE NAILS COMPLETELY INTO WOOD.

Architect / Engineer:
ARW ENGINEERS structural consultants
1594 W. Park Cir. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
BP–ARCHITECTS.NET
P 801.394.3033
F 801.394.9064

Stamp: PROFESSIONAL STRUCTURAL ENGINEER Matthew C. McBride No. 353893 08/01/17 STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description
	28-JUL-17	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: SCHEDULES

Sheet: S601

SCHEDULE A

WOOD WALL SCHEDULE

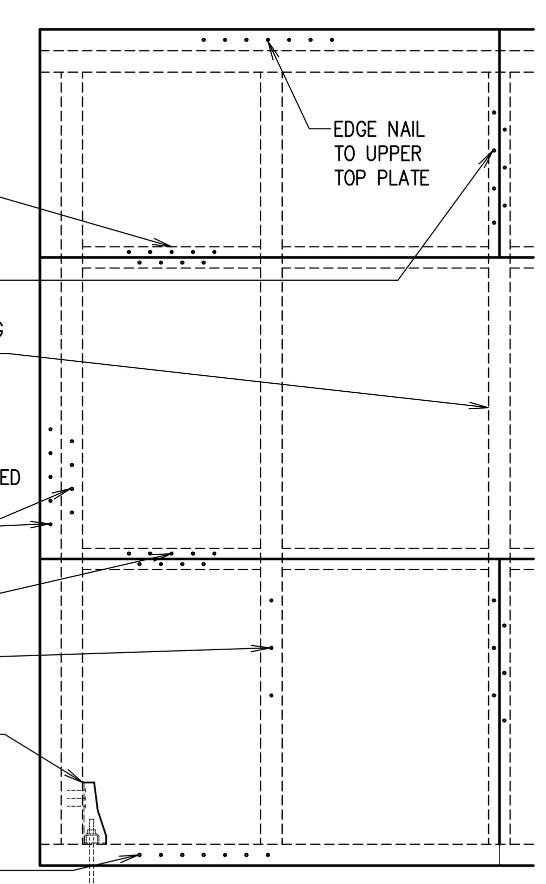
MARK	WALL STUDS	STUD SPACING	SILL PLATE	TOP PLATES	WOOD SHEATHING THICKNESS AND TYPE	COMMENT	FASTENERS	EDGE NAILING (OR E.N.) SPACING	FIELD NAILING (OR F.N.) SPACING	NAILING TO WOOD SILL	SILL PLATE ATTACHMENT
W4-A	2x4	16"	2x4	(2) 2x4	---		---	---	---	---	POWDER ACTUATED FASTENER @ 24"o.c.
W4-B	2x4	16"	2x4	(2) 2x4	7/16" APA RATED		8d	6" o.c.	6" o.c.	6" o.c.	
W6-A	2x6	16"	2x6	(2) 2x6	---		---	---	---	---	POWDER ACTUATED FASTENER @ 24"o.c.
(10,14) W6-B	3x6	12"	3x6	(2) 2x6 LSL	(2) 7/16" APA RATED		8d	3"o.c.	6"o.c.	3"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W6-C	2x6	16"	2x6	(2) 2x6	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W6-D	2x6	16"	2x6	(2) 2x6 LSL	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	16d NAILS @ 8"o.c.
(10,14) W6-E	2x6	16"	3x6	(2) 2x6	7/16" APA RATED		8d	3"o.c.	6"o.c.	3"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
(10,14) W6-F	3x6	16"	3x6	(2) 2x6	7/16" APA RATED		8d	2"o.c.	6"o.c.	2"o.c.	5/8" x 8" EMBEDMENT @ 24"o.c.
W6-G	1 1/2" x 5 1/2" SCL	16"	2x6	(2) 2x6	---		---	---	---	---	POWDER ACTUATED FASTENER @ 24"o.c.
W8-A	2x8	16"	2x8	(2) 2x8	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W8-B	2x8	16"	2x8	(2) 2x8	---		---	---	---	---	POWDER ACTUATED FASTENER @ 24"o.c.
(10,14) W10-A	1 1/2" x 9 1/2" SCL	16"	2 1/2" X 9 1/2" LSL	(2) 1 1/2" x 9 1/2" LSL	7/16" APA RATED		8d	3"o.c.	6"o.c.	3"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W10-B	1 1/2" x 9 1/2" SCL	16"	1 1/2" X 9 1/2" LSL	(2) 1 1/2" x 9 1/2" LSL	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W12-A	1 3/4" x 11 7/8" SCL	6"	1 1/2" X 11 7/8" LSL	(2) 1 1/2" x 11 7/8" LSL	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W12-B	1 3/4" x 11 7/8" SCL	12"	1 1/2" X 11 7/8" LSL	(2) 1 1/2" x 11 7/8" LSL	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.
W12-C	1 3/4" x 11 7/8" SCL	16"	1 1/2" X 11 7/8" LSL	(2) 1 1/2" x 11 7/8" LSL	7/16" APA RATED		8d	4 1/2"o.c.	6"o.c.	4 1/2"o.c.	5/8" x 8" EMBEDMENT @ 32"o.c.

SCHEDULE NOTES:

1. ALL ANCHOR BOLTS SHALL HAVE A 1/4" x 3" x 3" WASHER MINIMUM BETWEEN THE SILL PLATE AND THE NUT. SEE ANCHOR BOLT PLATE WASHER DETAIL ON THIS SCHEDULE.
2. 5/8"ø ANCHOR BOLTS MAY BE REPLACED WITH POST-INSTALLED ADHESIVE ANCHORS, POST-INSTALLED DRILLED-IN MECHANICAL ANCHORS (EXPANSION BOLTS) OR POST-INSTALLED SCREW ANCHORS. REFER TO SPECIFICATION SECTION 03 1511 FOR ACCEPTABLE PRODUCTS. NOTIFY ENGINEER OF PRODUCT SELECTED FOR EMBEDMENT SPACING, AND OTHER INSTALLATION REQUIREMENTS.
3. SEE SCHEDULE E/S603 FOR REQUIRED NAIL TYPES.
4. SEE ARCHITECTURAL WALL TYPES FOR FINISHES NOT SHOWN.
5. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
6. FASTENERS FOR PRESERVATIVE AND TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.
7. ALL NAILS TO BE HEAD MARKED FOR EASY IDENTIFICATION AFTER INSTALLATION.
8. SEE DOUBLE WALL SKETCH FOR CONDITION AT DOUBLE WALL.
9. POWDER ACTUATED FASTENERS TO BE HILTI 'X-DNI 72P8' OR EQUIVALENT.
10. SPECIAL INSPECTION REQUIRED.
11. 1 3/4" THICK SCL STUDS MAY REPLACE 1 1/2" THICK SCL STUDS AT CONTRACTOR'S OPTION.
12. LENGTHS OF NAILS ATTACHING THE SHEATHING MAY BE REDUCED PROVIDED THE MINIMUM PENETRATION NOTED IN SCHEDULE F/S603 IS MET.
13. WHERE NAIL SPACING IS LESS THAN 4", MEMBERS AT ADJOINING PANEL EDGES SHALL NOT BE LESS THAN 3" NOMINAL. JOINT AND SILL NAILING SHALL BE STAGGERED.
    - 13.1. AS AN ALTERNATE TO USING A 3x NOMINAL STUD OR SILLPLATE, USE (2) 2x MEMBERS SPIKED TOGETHER W/ 16d AT 3"o.c. STAGGERED.
    - 13.2. WHERE WOOD SHEATHING IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" ON CENTER ON EITHER SIDE, WOOD SHEATHING JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT STUDS. ALTERNATIVELY, THE WIDTH OF THE NAILED FACE OF STUDS SHALL BE 3" NOMINAL OR GREATER AT ADJOINING WOOD SHEATHING EDGES AND NAILS AT ALL WOOD SHEATHING EDGES SHALL BE STAGGERED.
14. 3x NOMINAL STUD REQUIRED AT PANEL EDGE.
15. AT EXTERIOR WALLS, EXTEND SHEATHING A MINIMUM OF 6" ABOVE THE TOP OF THE TOP PLATE TO PROVIDE BACKING FOR BRICK VENEER. FRAMING CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DETAILS WHERE SHEATHING IS REQUIRED TO EXTEND HIGHER FOR OTHER EXTERIOR FINISHES.
16. FOR LUMBER WALLS TALLER THAN 20'-0", CHANGE LUMBER MATERIAL TO SCL.

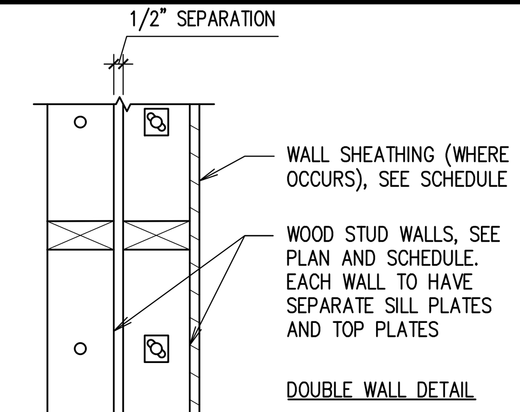
ELEVATION NOTES:

A. WALL SHEATHING MAY BE INSTALLED WITH THE LONG DIMENSION HORIZONTAL OR VERTICAL.
B. SHEATHING MAY BE INSTALLED IN STACKED INSTEAD OF RUNNING PATTERN AT CONTRACTOR'S OPTION.
C. ALL SHEATHING SHALL HAVE A SPAN RATING OF 24/16 OR BETTER U.N.O.
D. ALL WALL SHEATHING SHALL COMPLY WITH PS1-95 OR PS2-92.
E. SOLID BLOCK ALL WOOD WALL SHEATHING PANEL JOINTS, SEE BLOCKING DETAIL.

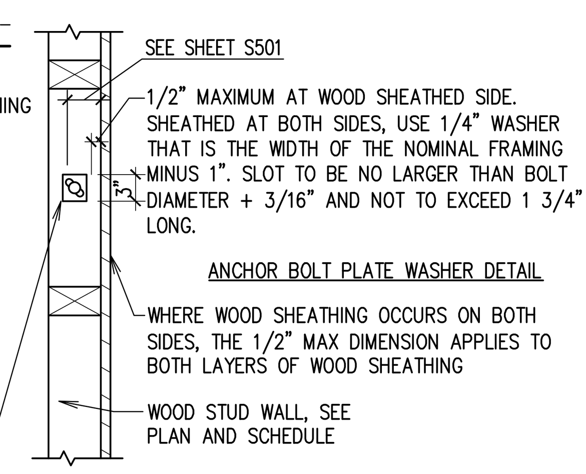


WOOD WALL SHEATHING EDGE DETAILS
SEE NOTES C AND D FOR ORIENTATION OF WOOD SHEATHING

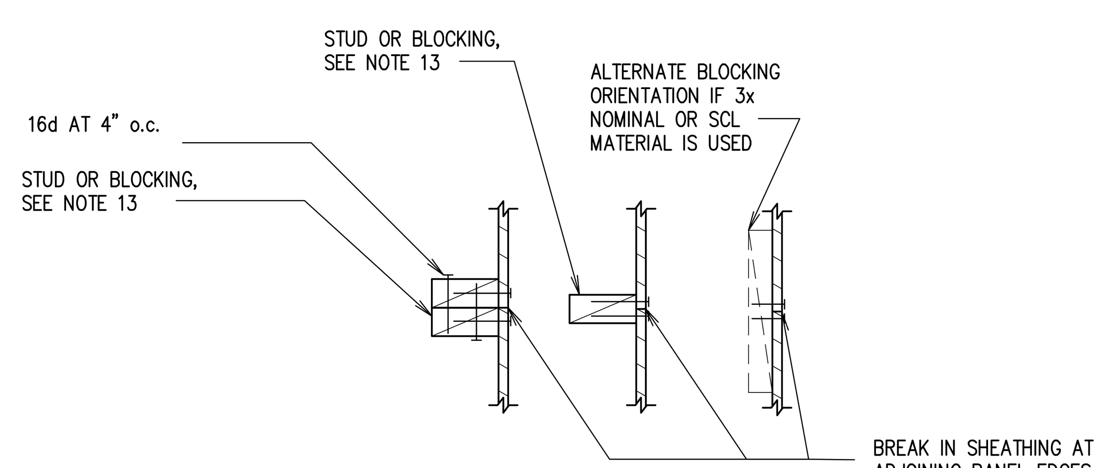
WALL ELEVATION



DOUBLE WALL DETAIL



ANCHOR BOLT PLATE WASHER DETAIL



BLOCKING OR STUD DETAILS

SCHEDULE C

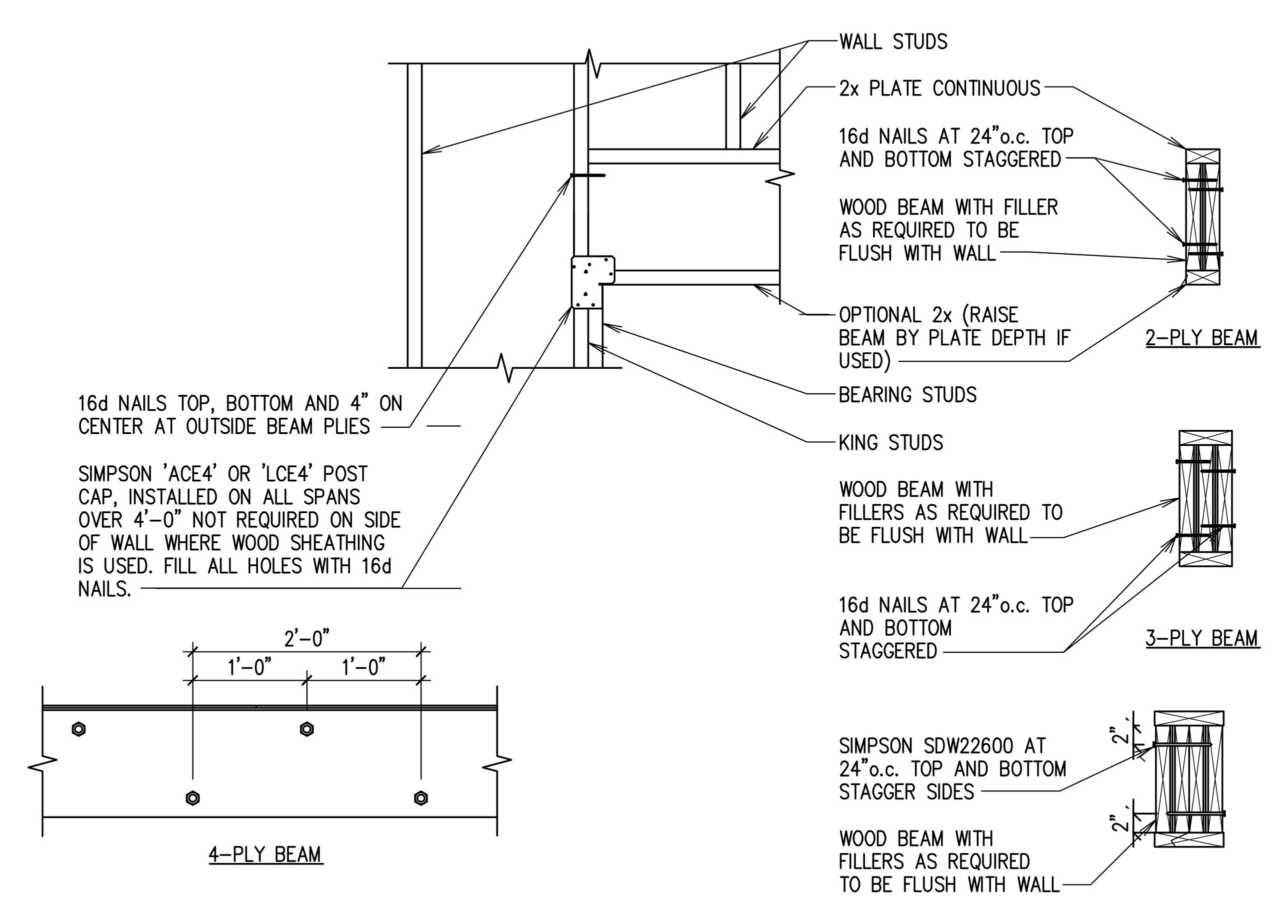
WOOD BEAM SCHEDULE

BEAM MARK	SIZE	MATERIAL	JAMB[1] BEARING STUDS SIZE	JAMB[1] KING STUDS SIZE	COMMENTS
H-1	(2) 2x6	DF-L #2	(1)	(1)	
H-2	(3) 1 3/4 x 9 1/4	SCL	(2)	(2)	
H-3	(3) 2x10	DF-L #2	(2)	(1)	
H-4	(3) 2x6	DF-L #2	(2)	(1)	
BM-1	(3) 2x6	DF-L #2	(1)	(1)	
BM-2	(3) 1 3/4 x 9 1/4	SCL	(2)	(2)	
BM-3	(2) 2x6	DF-L #2	(2)	(1)	
BM-4	W16 x 31	A992	--	--	SEE S605
BM-5	(6) 1 3/4 x 7 1/4	SCL	(7)	(2)	SEE P/S513 AND Q/S513
BM-6	(3) 2x8	DF-L #2	(2)	(2)	
BM-7	(4) 1 3/4 x 16	SCL	(4)	(2)	
BM-8	5 1/8 x 21	24F-V4	(4)	(2)	
BM-9	3 1/8 x 21	24F-V4	(4)	(2)	
BM-10	(4) 1 3/4 x 9 1/4	SCL	(4)	(2)	
BM-11	(2) 1 1/2 x 7 1/4	SCL	(2)	(1)	
BM-12	(3) 2x10	DF-L #2	(2)	(1)	
BM-13	(3) 1 3/4 x 9 1/4	SCL	(2)	(2)	
BM-14	(4) 1 3/4 x 9 1/4	SCL	(2)	(2)	
BM-15	(4) 1 1/2 x 7 1/4	SCL	(2)	(3)	
BM-16	(3) 2x10	DF-L #2	(3)	(2)	
BM-17	(2) 2x8	DF-L #2	(1)	(1)	
BM-18	(1) 1 1/2 x 11 7/8	SCL	(1)	(1)	
BM-19	(2) 2x8	DF-L #2	(2)	(1)	
BM-20	(4) 1 3/4 x 16	SCL	--	--	
BM-21	(3) 1 3/4 x 9 1/4	SCL	(2)	(1)	
BM-22	(4) 1 3/4 x 9 1/4	SCL	(3)	(2)	SEE B/S301
BM-23	(2) 1 3/4 x 16	SCL	(2)	(2)	
BM-24	W16x67	A992	--	--	SEE S605
BM-25	(2) 1 3/4 x 11 7/8	SCL	(2)	(1)	

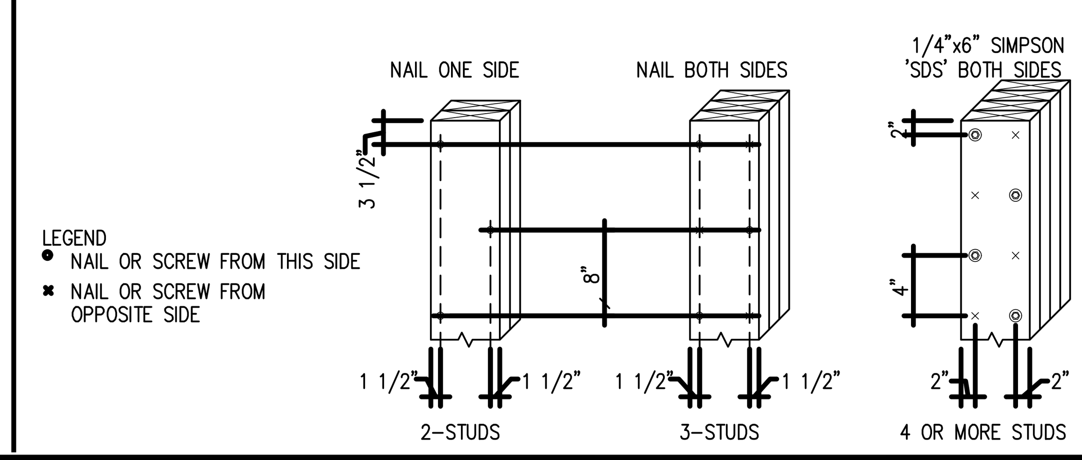
SCHEDULE NOTES:

1. SEE STRUCTURAL WOOD WALL SCHEDULE FOR JAMB MATERIAL AND NOMINAL SIZE.
2. USE FILLERS AS NEEDED TO HAVE ALL BEAMS OR HEADERS MATCH WIDTH OF WALL IN WHICH BEAM IS LOCATED.
3. BEAMS OF MULTIPLE MEMBERS MAY BE REPLACED WITH A SINGLE MEMBER OF EQUIVALENT SIZE AND MATERIAL PROPERTIES.
4. SEE NAILING PATTERN SHOWN IN WOOD JAMB FASTENING FOR MULTIPLE-PLY BEARING AND KING STUDS.
5. USE 16d NAILS TO BUILD UP 2 OR 3 STUD COLUMNS.
   * ADJACENT NAILS ARE TO BE DRIVEN FROM OPPOSING SIDES OF COLUMN.
   * 3 1/2" WIDE COLUMNS REQUIRE ONE ROW OF STAGGERED NAILS. ALL OTHER COLUMNS REQUIRE TWO ROWS OF NAILS.
6. KING STUDS EXTEND FROM TOP OF SILL PLATE TO BOTTOM OF TOP WALL PLATES.
7. BEARING STUDS EXTEND FROM TOP OF SILL PLATE TO BOTTOM OF BEAM OR HEADER.

WOOD BEAM FASTENING AND ATTACHMENT



WOOD JAMB FASTENING



Architect / Engineer:
ARW ENGINEERS structural consultants
1594 W. Park Cir. Ogden, Utah 84404
ph. 801.782.6008 fx. 801.782.4656

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
BP-ARCHITECTS.NET
P 801.394.3033
F 801.394.9064

Stamp:
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Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: SCHEDULES

Sheet: S602

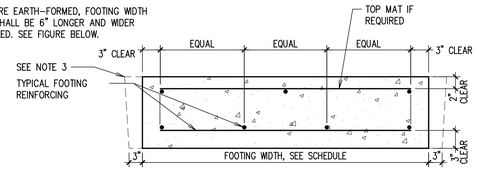
SCHEDULE A

CONCRETE FOOTING SCHEDULE

MARK*	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				REMARKS
				NO.	SIZE	LENGTH	SPACING	NO.	SIZE	LENGTH	SPACING	
FC1.5	1'-6"	CONT.	1'-0"	–	–	–	–	2	#4	CONT.	12" O.C.	
FC2.0	2'-0"	CONT.	1'-0"	–	–	–	–	3	#4	CONT.	EQUAL	
FC3.0	3'-0"	CONT.	1'-0"	–	#5	2'-6"	14" O.C.	3	#5	CONT.	EQUAL	
FC3.5	3'-6"	CONT.	1'-0"	–	#5	3'-0"	14" O.C.	4	#5	CONT.	EQUAL	
FC3.5A	3'-6"	CONT.	2'-0"	–	#5	3'-0"	14" O.C.	4	#5	CONT.	EQUAL	REINFORCE TOP AND BOTTOM
FC4.0	4'-0"	CONT.	1'-0"	–	#5	3'-6"	14" O.C.	4	#5	CONT.	EQUAL	
FC4.0A	4'-0"	CONT.	2'-0"	–	#5	3'-6"	14" O.C.	4	#5	CONT.	EQUAL	REINFORCE TOP AND BOTTOM
FC5.0	5'-0"	CONT.	1'-0"	–	#5	4'-6"	14" O.C.	5	#5	CONT.	EQUAL	
FS2.0	2'-0"	2'-0"	1'-6"	3	#5	1'-6"	EQUAL	3	#5	1'-6"	EQUAL	
FS3.0	3'-0"	3'-0"	1'-0"	3	#5	2'-6"	EQUAL	3	#5	2'-6"	EQUAL	
FS3.0A	3'-0"	3'-0"	2'-0"	3	#5	2'-6"	EQUAL	3	#5	2'-6"	EQUAL	REINFORCE TOP AND BOTTOM
FS3.5	3'-6"	3'-6"	1'-0"	4	#5	3'-0"	EQUAL	4	#5	3'-0"	EQUAL	
FS3.5A	3'-6"	3'-6"	2'-0"	4	#5	3'-0"	EQUAL	4	#5	3'-0"	EQUAL	REINFORCE TOP AND BOTTOM
FS4.0	4'-0"	4'-0"	1'-0"	4	#5	3'-6"	EQUAL	4	#5	3'-6"	EQUAL	
FS4.0A	4'-0"	4'-0"	2'-0"	4	#5	3'-6"	EQUAL	4	#5	3'-6"	EQUAL	REINFORCE TOP AND BOTTOM
FS5.0	5'-0"	5'-0"	1'-0"	5	#5	4'-6"	EQUAL	5	#5	4'-6"	EQUAL	
FS6.0	6'-0"	6'-0"	1'-0"	6	#5	5'-6"	EQUAL	5	#5	5'-6"	EQUAL	
FS6.0A	6'-0"	6'-0"	2'-0"	6	#5	5'-6"	EQUAL	6	#5	5'-6"	EQUAL	REINFORCE TOP AND BOTTOM
FS7.0	7'-0"	7'-0"	1'-2"	7	#5	6'-6"	EQUAL	7	#5	6'-6"	EQUAL	
FR1022	10'-0"	22'-0"	1'-0"	10	#5	9'-6"	EQUAL	22	#5	21'-6"	EQUAL	

NOTES:

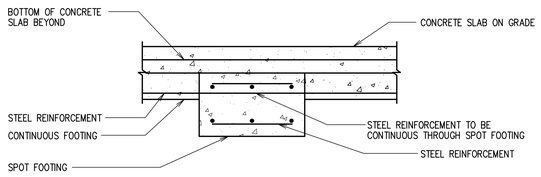
1. PLACE ALL REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNLESS NOTED OTHERWISE). USE ADOBE BLOCKS.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTING WIDTH AND LENGTH SHALL BE 6" LONGER AND WIDER THAN SCHEDULED. SEE FIGURE BELOW.
4. RUN CONTINUOUS BARS IN CONTINUOUS FOOTINGS THRU INTERSECTED SPOT FOOTINGS. SEE FIGURE BELOW.



TYPICAL FOOTING SECTION

*FOOTING TYPES

FC = CONTINUOUS FOOTING
FS = SPOT FOOTING
FR = RECTANGULAR FOOTING



CONTINUOUS BARS THROUGH INTERSECTED SPOT FOOTINGS

SCHEDULE B

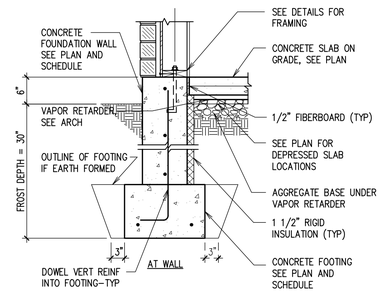
STEEL ANGLE LINTEL SCHEDULE FOR VENEER

CLEAR OPENING	SIZE OF ANGLE
UP TO 7'-0"	3 1/2" x 3 1/2" x 1/4"
7'-1" TO 9'-0"	5" x 3 1/2" x 1/4"
9'-1" TO 10'-0"	5" x 3 1/2" x 5/16"
10'-1" TO 11'-0"	5" x 3 1/2" x 3/8"
11'-1" TO 12'-0"	6" x 4" x 3/8"
12'-1" AND OVER	REQUIRES SPECIAL ANALYSIS
	ANGLES ARE TO BE HOT DIPPED GALVANIZED AND "PAINTED".

NOTE:
LINTELS CARRY BRICK OR STONE ONLY. WHERE FLOORS, ROOFS, OR CONCENTRATED LOADS OCCUR ABOVE, FURTHER ANALYSIS IS NECESSARY. PROVIDE 1" OF BEARING EACH END FOR EACH FOOT OF SPAN. MINIMUM BEARING OF 6" EACH SIDE OF OPENING. USE THIS SCHEDULE UNLESS OTHERWISE NOTED.

SCHEDULE C

CONCRETE FOUNDATION WALL SCHEDULE



NOTE: FOOTING SHOWN IS CONCEPTUAL ONLY

MARK	WIDTH	HORIZONTAL REINF.			VERTICAL REINF.	
		TOP	INTERMEDIATE	BOTTOM	SIZE	SPACING
CW-8	8"	(1) #4	#4 AT 12 O.C.	(1) #4	#4	12" O.C.
CW-10	10"	(1) #4	(2) #4 AT 18" O.C.	(1) #4	#4	18" O.C. E.F.
CW-12	12"	(2) #4	(2) #4 AT 18" O.C.	(2) #4	#4	18"O.C. EF
CW-14	14"	(2) #4	(2) #4 AT 14" O.C.	(2) #4	#4	14"O.C. EF
CW-16	16"	(2) #4	(2) #4 AT 12" O.C.	(2) #4	#4	12"O.C. EF

SCHEDULE F

REQUIRED NAIL TYPES

NOTES:

1. EXCEPT WHERE NOTED OTHERWISE, THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN SET FORTH IN IBC TABLE 2304.9.1
   a. CONNECTION FOR MULTIPLE PIECES OF ENGINEERED LUMBER PIECES SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
   b. WHERE 16d COMMON NAILS ARE CALLED OUT IN IBC TABLE 2304.9.1 USE 16d BOX NAILS.
2. ALL NAILS NOTED ON THE DRAWINGS SHALL BE AS SHOWN BELOW UNLESS NOTED OTHERWISE; NAILS FOR 3RD PARTY HARDWARE SHALL BE AS REQUIRED BY MANUFACTURER OF HARDWARE.
3. ALL FASTENERS FOR PRESERVATIVE AND FIRE RETARDANT TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE-TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED.
4. LENGTH OF NAILS ATTACHING SHEATHING MAY BE REDUCED PROVIDED THAT THE MINIMUM PENETRATION NOTED BELOW IS MET.
5. NAILS USED IN SIMPSON HARDWARE (OR HARDWARE OF EQUAL VALUE) SHALL BE AS SPECIFIED BY THE MANUFACTURER.
6. OTHER FASTENERS MAY BE USED TO REPLACE NAILS BUT THEY MUST HAVE EQUIVALENT, OR LARGER, DIAMETERS AND PENETRATION LENGTHS.

ALL NAILS NOTED ON THE DRAWINGS SHALL BE AS SHOWN BELOW, UNLESS NOTED OTHERWISE.

NAIL SIZE	TYPE	STANDARD LENGTH (INCHES)	DIAMETER (INCHES)	MINIMUM PENETRATION REQUIRED (INCHES)
8d	COMMON	2 1/2	.131	1 3/8
10d	COMMON	3	.148	1 1/2
16d	BOX	3 1/2	.135	1 1/2
16d	SINKER	3 1/2	.418	1 1/2

SCHEDULE G

CONCRETE PROTECTION FOR REINFORCEMENT

APPLICATION		MIN. CLEAR COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	1. ALL APPLICATIONS EXCEPT SLABS ON GRADE	3"
	2. SLABS ON GRADE – CLEAR DISTANCE FROM TOP OF SLAB	1"
CONCRETE EXPOSED TO EARTH OR WEATHER	1. #6 BARS AND LARGER	2"
	2. #5 BARS AND SMALLER	1 1/2"
NOTES	1. TOLERANCE FOR CONCRETE COVER AND REINFORCEMENT LOCATION IS ±3/8"	

SCHEDULE H

LAP SPLICE SCHEDULE

BAR SIZE	BAR OVERLAP	BAR SIZE	BAR OVERLAP	BAR SIZE	BAR OVERLAP
#3	18"	#4	24"	#5	30"
#6	36"	#7	42"	#8	48"

SCHEDULE J

TYPICAL BLOCKING SCHEDULE

DOOR STOPS	STAIR BLOCKING
VISUAL DISPLAYS	DECORATIVE METAL BETWEEN WINDOWS
MARKER BOARDS	DRINKING FOUNTAINS
TACK BOARDS	WALL HUNG SINKS
BABY CHANGING STATIONS	ROSTRUM
EXIT SIGNS	DECORATION HOOKS
CHAIR RAIL	JANITOR SHELVING
COAT RACKS	RA VENTS AT ENTRIES
CABINETS	COLUMNS AT ENTRIES
SOUND PANELS	CAN LIGHTS AT ENTRIES
TOILET PARTITIONS	HYMN BOOK SHELVES
HANDICAP BARS	DIMMER SWITCHES IN GYM
BATHROOM ACCESSORIES	CURTAIN AT STAGE
TOWEL DISPENSORS	CURTAINS IN OFFICES
TOILET PAPER HOLDERS	JANITOR TAP AND HOSE HARDWARE
NAPKIN HOLDERS	FONT MIRRORS
SHELVES	FONT HANDRAILS
MIRRORS	FONT BENCHES
COUNTERS	CLOTHING HOOKS
COUNTER BRACKETS	FONT GLASS SCREEN
ACCESS PANELS	CHAIR STORAGE SHELVING
HANDRAILS	INTERIOR SOFFIT FOR SIX PIECE CORNICE
FIRE CABINETS	

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.262.8000 fx. 801.262.4650
620 24TH STREET
OGDEN, UTAH 84401
801.394.3053
F 801.394.3064
BOTT PANTONE ARCHITECTS

Stamp:

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1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (D-M-Y)	Description
-	28-JUL-17	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

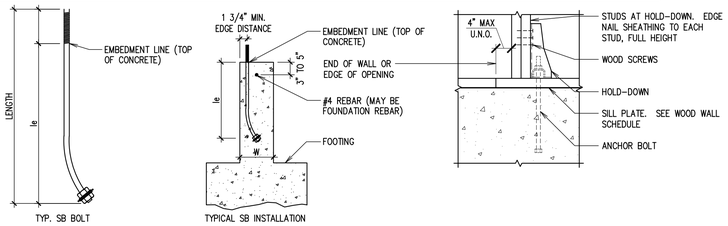
Sheet Title: SCHEDULES (SPREAD FOOTING)

Sheet: S603

SCHEDULE A

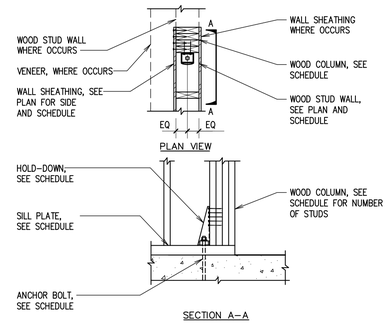
HOLD–DOWN (ANCHOR) SCHEDULE

MARK	SIMPSON HOLD–DOWN MODEL NO.	WOOD COLUMN/STUDS AT HOLD–DOWN (MINIMUM) (2,3,4)	ATTACHMENT FASTENERS	ANCHOR BOLT DIAMETER (5)	EMBEDMENT DEPTH	ANCHOR BOLT (5)
A–1	HDU2	3	(6) SDS 1/4" x 2 1/4"	5/8"	0'–10"	SIMPSON SB 5/8 x 24
A–2	HDU4	3	(10) SDS 1/4" x 2 1/4"	5/8"	1'–6"	SIMPSON SB 5/8 x 24
A–3	HDU5	4	(14) SDS 1/4" x 2 1/4"	5/8"	1'–6"	SIMPSON SB 5/8 x 24
A–4	HDU8	4	(20) SDS 1/4" x 2 1/4"	7/8"	1'–6"	SIMPSON SB 7/8 x 24
A–5	HDU11	5	(30) SDS 1/4" x 2 1/4"	1"	1'–6"	SIMPSON PAB8
A–6	HDU19	6	(5) 1"DIA. BOLTS	1 1/4"	1'–6"	SIMPSON PAB10

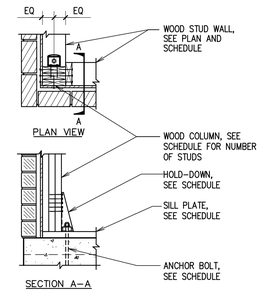


NOTES:

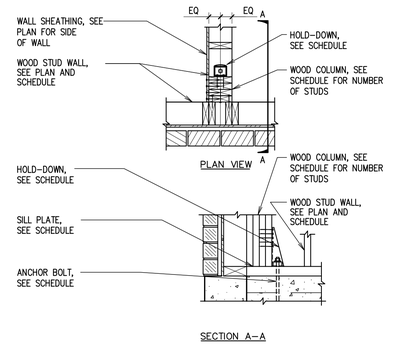
1. ALL FASTENERS FOR PRESERVATIVE AND TREATED WOOD SHALL BE HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE, OR COPPER, UNLESS WOOD IS BORATE TREATED. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATE PRESERVATIVE–TREATED WOOD IN AN INTERIOR, DRY ENVIRONMENT ARE PERMITTED
2. ALL WOOD COLUMNS TO BE NAILED OR BOLTED TOGETHER PER THE FIGURES IN B/S002 PRIOR TO HOLD–DOWN INSTALLATION.
3. COMPARE THIS SCHEDULE TO SCHEDULES B/S602 AND C/S602. USE THE GREATER NUMBER OF STUDS REQUIRED.
4. SEE SCHEDULE B/S602 FOR MULTI–STUD FASTENING, I.E. BUILT UP COLUMN.
5. AT CONTRACTORS OPTION, 5/8" AND 7/8" SIMPSON SB ANCHORS MAY BE SUBSTITUTED WITH AND A36 ALL THREAD WITH THE SAME DIAMETER AND EMBEDMENT AND A 3" x 3" x 3/8" PLATE WASHER AND DOUBLE NUT SYSTEM.



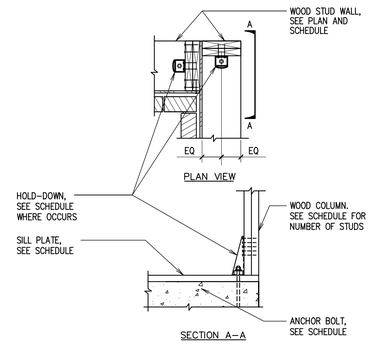
A **INTERIOR SHEARWALL END**
NO SCALE



B **EXTERIOR CORNER**
NO SCALE



C **INT WALL TO EXT WALL INTERSECTION**
NO SCALE



D **EXTERIOR CORNER**
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.746.6000 fx. 801.746.4656
620 24TH STREET
OGDEN, UTAH 84401
801-394-3053
F 801.394.3064
BOTT PANTONE

Stamp:

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

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Sheet Title: SCHEDULES

Sheet: S604

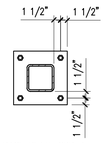
SCHEDULE A

STEEL COLUMN SCHEDULE

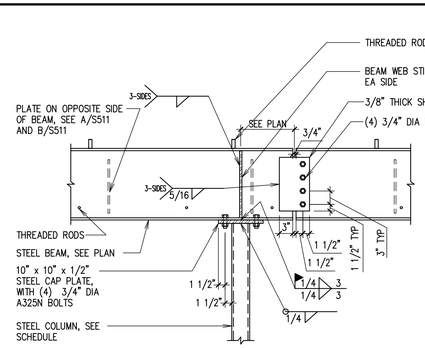
MARK	SIZE	STEEL BASE PLATE	STEEL CAP PLATE DETAIL	COMMENTS
SC-3A	HSS3x3x1/4	3/4" SBP-1	A4	
SC-4A	HSS4x4x1/4	3/4" SBP-1	A2	
SC-4B	HSS4x4x3/8	3/4" SBP-1	A2	
SC-5A	HSS5x5x3/8	3/4" SBP-1	A1	
SC-5B	HSS5x5x1/4	3/4" SBP-1	A3	

STEEL COLUMN NOTES:

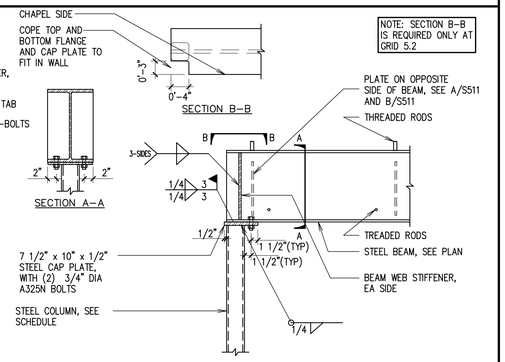
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4" DIA ANCHOR RODS WITH 3" MINIMUM HOOKS. PROJECT ANCHOR RODS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM, UNLESS NOTED OTHERWISE. ALL RODS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE ROD DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.
2. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS).
3. CONTRACTOR HAS THE OPTION TO USE EPOXY BOLTS INSTEAD OF CAST IN PLACE BOLTS. EPOXY BOLTS SHALL BE INSTALLED AS DEEP AS CAST IN PLACE BOLTS. THE EPOXY SHALL BE 'HIT RE 500-SD' BY HILTI CORPORATION, PR POWERS PWTOOD+' BY POWERS FASTENERS INC. OR 'SET-XP' BY SIMPSON STRONG-TIE.
4. SEE F/S601 FOR ADDITIONAL REQUIREMENTS.
5. SEE DETAIL N/S501 FOR CONNECTION OF WOOD NAILERS TO COLUMNS.



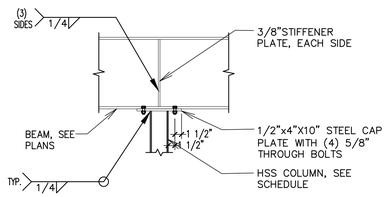
BASE PLATE SBP-1



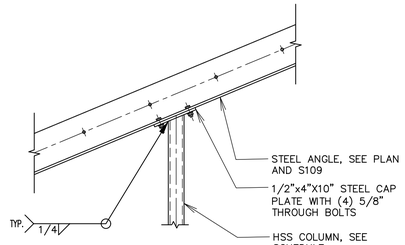
A1 STEEL BEAM BEARING ON INTERIOR STEEL COLUMN
NO SCALE



A2 END OF STEEL BEAM BEARING AT STEEL COLUMN
NO SCALE



A3 AT MID SUPPORT OF HORIZONTAL BEAM
NO SCALE



A4 FRAME COLUMN CAP
NO SCALE

Architect / Engineer:
ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84104
ph. 801.792.8008 fx. 801.792.4066
620 24TH STREET
OGDEN, UTAH 84401
P. 801.394.3053
F. 801.394.3064
BOTT PANTONE

Stamp:

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

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Sheet Title: SCHEDULES

Sheet: S605

LEGEND

A–x	INDICATES HOLD–DOWN TYPE, SEE SCHEDULE A/S604
BOB	BOTTOM OF BEAM
BLW ABV	INDICATES FLOOR OFFSET, SEE DETAILS
BM–x	INDICATES WOOD BEAM. SEE SCHEDULE C/S602
CB–x	INDICATES CONCRETE BEAM TYPE, SEE SCHEDULE K/S603
CW–x	INDICATES CONCRETE WALL, SEE SCHEDULE C/S603
EOS	EDGE OF SLAB
FC–x	INDICATES CONCRETE CONTINUOUS FOOTING TYPE, SEE SCHEDULE A/S603
FR–x	INDICATES CONCRETE RECTANGULAR FOOTING TYPE, SEE SCHEDULE A/S603
FS–x	INDICATES CONCRETE SPOT FOOTING TYPE, SEE SCHEDULE A/S603
H–x	INDICATES WOOD HEADER – SEE SCHEDULE C/S602
SCL	INDICATES STRUCTURAL COMPOSITE LUMBER SUCH AS LVL AND LSL
SC–x	INDICATES STEEL COLUMN TYPE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOW	TOP OF WALL
TR–X	INDICATES WOOD TRUSS, SEE ELEVATIONS ON S20X
WC–x	INDICATES WOOD COLUMN. SEE SCHEDULE B/S602
WJ–x	INDICATES WOOD I–JOIST. SEE SCHEDULE F/S601
Wx–x	INDICATES WOOD WALL. SEE SCHEDULE A/S602
▼	INDICATES SIDE WHERE INTERIOR WOOD WALL SHEATHING IS TO BE INSTALLED.
	DETAIL NUMBER
	DETAIL SHEET
	INDICATES CONCRETE WALL
	INDICATES DEPRESSED SLAB, SEE ARCHITECTURAL PLANS.
S——S	INDICATES FOOTING STEP, SEE DETAIL E/S501
	INDICATES NON–STRUCTURAL WOOD STUD WALL
	INDICATES WOOD BEAM OR HEADER
	INDICATES WOOD ROOF OR FLOOR SHEATHING, SEE PLAN AND SCHEDULE B/S601
	INDICATES STRUCTURAL WOOD STUD WALL
	INDICATES STRUCTURAL WOOD SHEAR WALL
	TYPE 1 BLOCKED DIAPHRAGM, SEE SCHEDULE B ON S601

FOOTING AND FOUNDATION NOTES

NOTES:

1. SEE DETAIL A/S501 AND B/S501 FOR PIPES PERPENDICULAR AND PARALLEL TO FOOTING.
2. SEE DETAIL C/S501 FOR TYPICAL CORNER WALL REINFORCING AT CONCRETE WALLS.
3. SEE DETAIL D/S501 FOR SILL PLATES BOLTING DETAIL.
4. SEE B/S601 FOR WALL/ROOF/FLOOR SHEATHING REQUIREMENTS.
5. DEPRESS FLOOR SLAB AS SHOWN ON PLANS FOR TILE/WOOD FLOOR SYSTEM. SEE H/SS01, K/S501 AND Q/S501 FOR DETAIL AT STEP IN SLAB. COORDINATE WITH ARCH FOR DIMENSIONS AT ROOMS THAT REQUIRE TILE OR WOOD FLOOR.
6. 4" UNREINFORCED CONCRETE SLAB ON GRADE FOR MECHANICAL EQUIPMENT. PLACE CONTROL JOINTS IN SLAB AS SHOWN. CONCRETE PADS SUPPORTING A SATELLITE DISH IN THE MECHANICAL ENCLOSURE (WHERE OCCURS) TO BE INCREASED TO 5" THICK. COORDINATE WITH ARCH. SEE CIVIL FOR MECHANICAL ENCLOSURE SCREEN WALL DETAIL.
7. ALL DIMENSIONS TO STUD WALL ARE TO FACE OF STUD WALL AND NOT TO SHEATHING.
8. TOP OF FOOTING 98'–0" TYPICAL UNLESS NOTED OTHERWISE AT ALL EXTERIOR FOOTINGS.
9. TOP OF FOOTING 99'–6" TYPICAL UNLESS NOTED OTHERWISE AT ALL INTERIOR FOOTINGS.
10. RECESS FOUNDATION WALL 8" AT DOORWAYS AND POUR SLAB THRU OPENING. SEE A/S502.
11. SEE DETAIL E/S501 FOR TYPICAL FOOTING STEP DETAILS.
12. SEE DETAIL R/S501 FOR STRUCTURAL FILL BENEATH FOOTINGS AND THICKENED SLABS.
13. SPOT FOOTINGS ARE TO BE CENTERED UNDER COLUMN OR HOLD DOWN.
14. SEE DETAIL E/S502 WHERE SPOT FOOTINGS AND CONTINUOUS FOOTINGS ARE POURED AT DIFFERENT TIMES.

ROSTRUM / PLATFORM, EQUIPMENT PLATFORM AND ROOF FRAMING NOTES

NOTES:

1. SEE DETAIL A/S521 FOR TYPICAL TOP PLATE SPLICE DETAIL.
2. SEE DETAIL B/S521 FOR TOP PLATE SPLICE DETAIL FOR PIPES THAT PENETRATE TOP PLATES.
3. SEE DETAILS C/S521 AND D/S521 FOR SHEAR WALL PENETRATIONS.
4. SEE SCHEDULE C/S602 FOR BUILT–UP BEAM DETAIL.
5. SEE SCHEDULES ON SHEETS S601 AND S602 FOR WALL, ROOF, AND FLOOR NAILING REQUIREMENTS.
6. SEE ARCHITECTURAL PLANS FOR EQUIPMENT PLATFORM ELEVATIONS AND STEPS.
7. FOR UNMARKED INTERIOR HEADERS, USE (3) 2x6 FOR 2x6 WALLS AND (2) 2x6 FOR 2x4 WALLS. USE (1) BEARING AND (1) KING STUD.
8. SEE G/S521, J/S521, AND H/S521 FOR BRACING AT NON–BEARING WALLS.

Architect / Engineer:

ARW ENGINEERS
structural consultants
1594 W. Pierpont Ave. Salt Lake City, Utah 84101
ph. 801.486.8000 fx. 801.486.8050

620 24TH STREET
OGDEN, UTAH 84401
P 801.394.3053
F 801.394.3064

BOTT PANTONE ARCHITECTS

Stamp:

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

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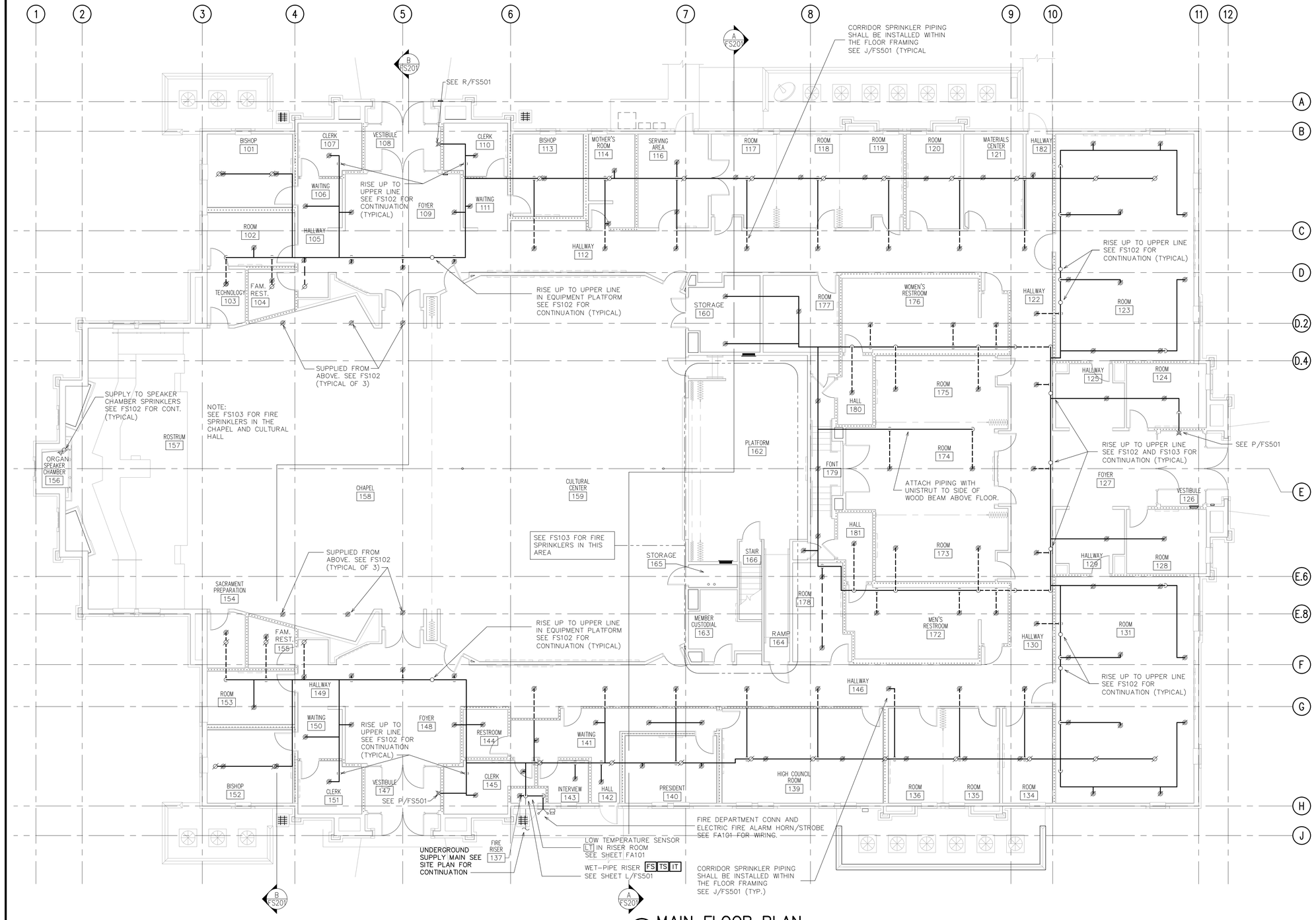
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: SYMBOLS AND NOTES

Sheet: S606



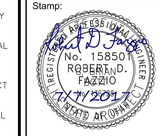
1 MAIN FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. INSTALL FIRE PROTECTION PIPING AS SHOWN, WET-PIPE SYSTEM THROUGHOUT ALL AREAS OF THE BUILDING.
2. USE DRY-BARREL TYPE SPRINKLERS IN CANOPIES AND VESTIBULES WHEN SUPPLIED FROM WET SYSTEM.
3. OBTAIN APPROVAL FOR PIPING CHANGES FROM ARCHITECT AND ENGINEER.
4. RUN PIPING LEVEL OR SLOPED TO DRAIN AS DESIGNATED IN NFPA 13.
5. THE FIRE SPRINKLER SYSTEM SHALL BE DESIGNED PER THE REQUIREMENTS OF NFPA 13, LIGHT HAZARD FOR THE MAIN LEVEL AND ATTIC WITH THE EXCEPTION OF THE SERVING AREA, MECHANICAL, ELECTRICAL AND JANITOR AREAS WHICH SHALL BE DESIGNED AS ORDINARY HAZARD GROUP 1, AND THE PLATFORM THAT WILL BE DESIGNED AS ORDINARY HAZARD GROUP 2.
6. SPRINKLER HEAD SPACING:
   - 6.1. LIGHT HAZARD: 225 SQ. FT.
   - 6.2. ORDINARY HAZARD: 130 SQ. FT.
   - 6.3. ATTIC: 130 SQ. FT. PER HEAD.
7. SEE SITE PLAN FOR UTILITY CONNECTION AND LOCATION OF FIRE HYDRANTS AND POST INDICATING VALVE, IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
8. DO NOT ROUTE PIPING THRU STRUCTURAL MEMBERS OR MECHANICAL DUCT WORK EXCEPT AS SHOWN ON THE DRAWINGS.
9. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLER HEADS. SPRINKLER HEADS DO NOT HAVE TO BE CENTERED IN THE ONE FOOT ACOUSTICAL TILES.
10. COORDINATE WITH FRAMER FOR SHEAR-WALL PENETRATIONS.
11. ALL SPRINKLERS SHALL BE QUICK-RESPONSE TYPE.
12. ALL WET-PIPE SYSTEM COMPONENTS (EXCEPT DRY SPRINKLERS) SHALL BE INSIDE THE BUILDING INSULATION ENVELOPE.
13. ALL REQUIRED DRAINS SHALL FOLLOW NFPA 13 REQUIREMENTS. DRAIN VALVES SHALL BE LOCATED TO PREVENT PUBLIC ACCESS AND SHALL BE PIPED TO DISCHARGE OUTSIDE THE BUILDING.
14. PROVIDE FIRE SPRINKLERS UNDER CANOPIES, STAIRS, AND ROSTRUM ONLY IF REQUIRED BY THE LOCAL FIRE MARSHAL. SPRINKLERS ARE NOT REQUIRED WITHIN CANOPIES THAT ARE FILLED WITH NON-COMBUSTIBLE INSULATION.

NOTES:
1. SEE FS201 FOR EQUIPMENT LEGEND AND HYDRAULIC INFORMATION PLACARDS.

Architect / Engineer:
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
(BPARCHITECTS.NET
P 801.394.3023
F 801.394.3054

Stamp:


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Property Number: 500-1632

Sheet Title: MAIN FLOOR FIRE SPRINKLER PLAN

Sheet: FS101

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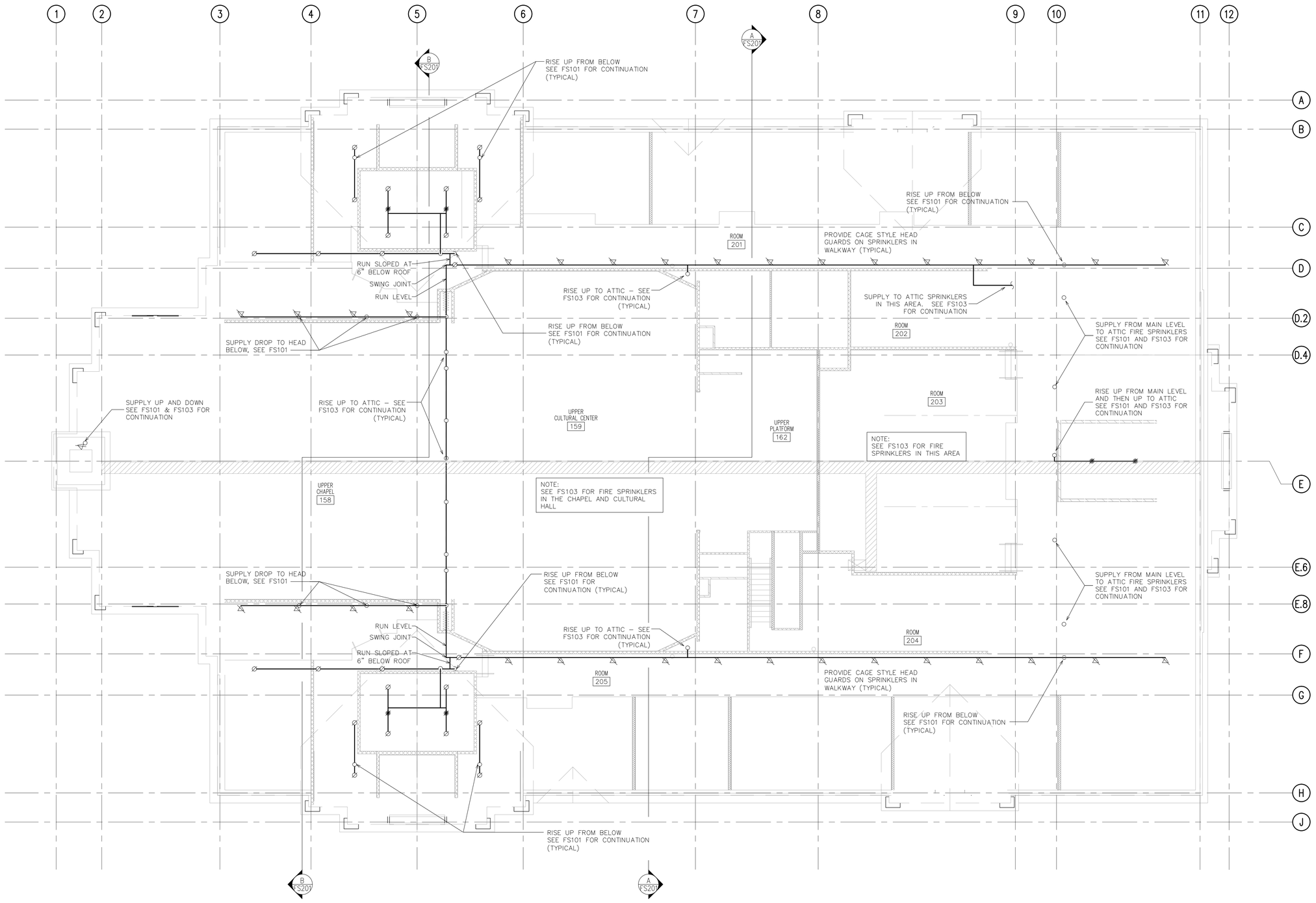

2 EQUIPMENT PLATFORM FIRE SPRINKLER PLAN

1/8" = 1'–0"

NOTES:
1. SEE FS101 FOR GENERAL NOTES.
2. SEE FS201 FOR EQUIPMENT LEGEND AND HYDRAULIC INFORMATION PLACARDS.

Architect / Engineer:

BOTT PANTONE ARCHITECTS
600 24TH STREET
OGDEN, UTAH 84401
BPARCHITECTS.NET
P 801.394.3023
F 801.394.3054

Stamp:

REGISTERED ARCHITECT
No. 158501
ROBERT D. PANTONE
11/1/2017
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER

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Sheet Title: EQUIPMENT PLATFORM FIRE SPRINKLER PLAN

Sheet: FS102

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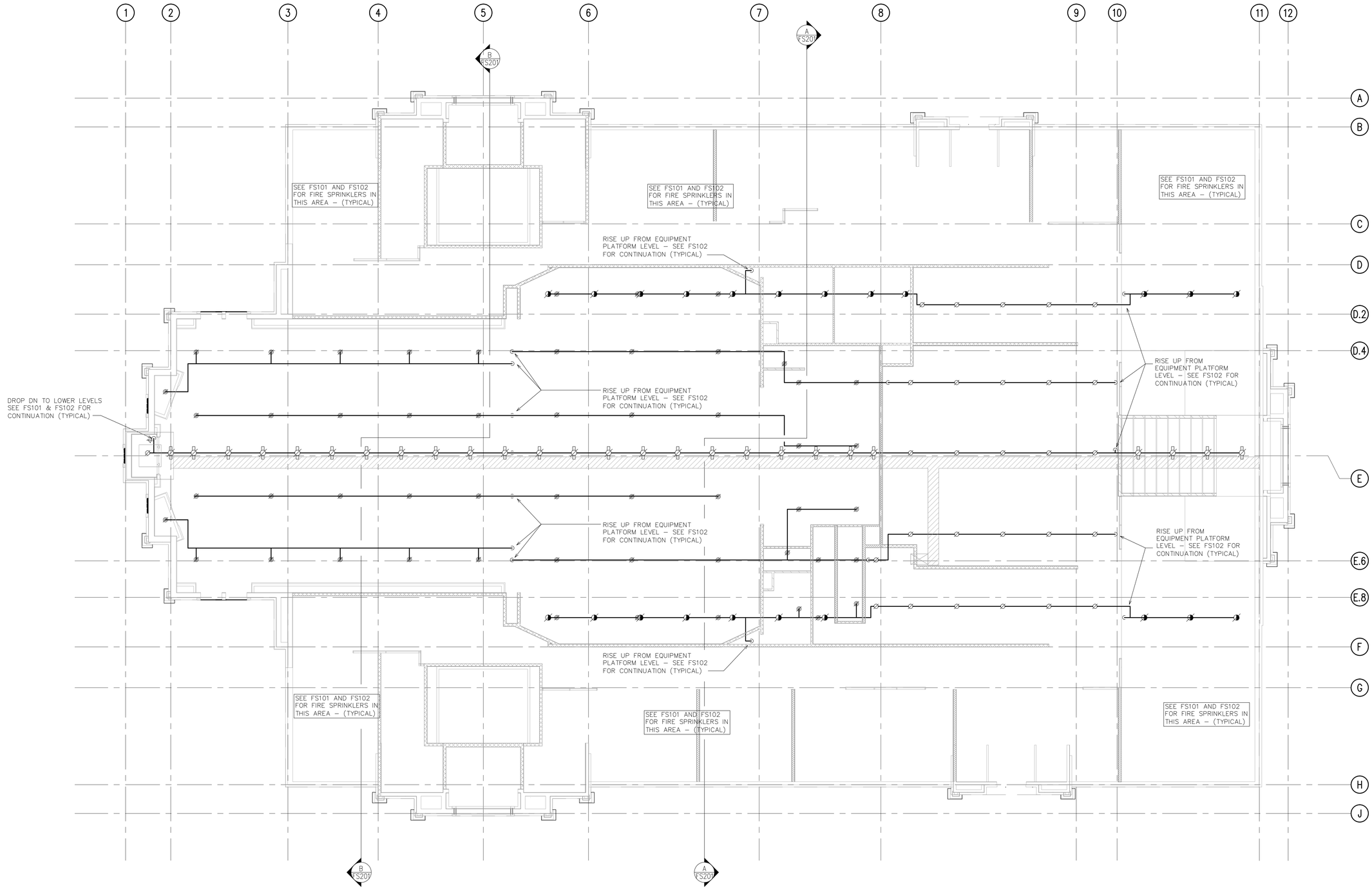

3 ATTIC FIRE SPRINKLER PLAN
1/8" = 1'-0"

NOTES:
1. SEE FS101 FOR GENERAL NOTES.
2. SEE FS201 FOR EQUIPMENT LEGEND AND HYDRAULIC INFORMATION PLACARDS.

Architect / Engineer:

BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
BP-ARCHITECTS.NET
P 801.394.3033
F 801.394.3054

Stamp:

REGISTERED PROFESSIONAL ENGINEER
No. 158501
ROBERT D. FAZZIO
11/1/2017
STATE OF UTAH

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

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Property Number: 500-1632

Sheet Title: ATTIC LEVEL FIRE SPRINKLER PLAN

Sheet: FS103

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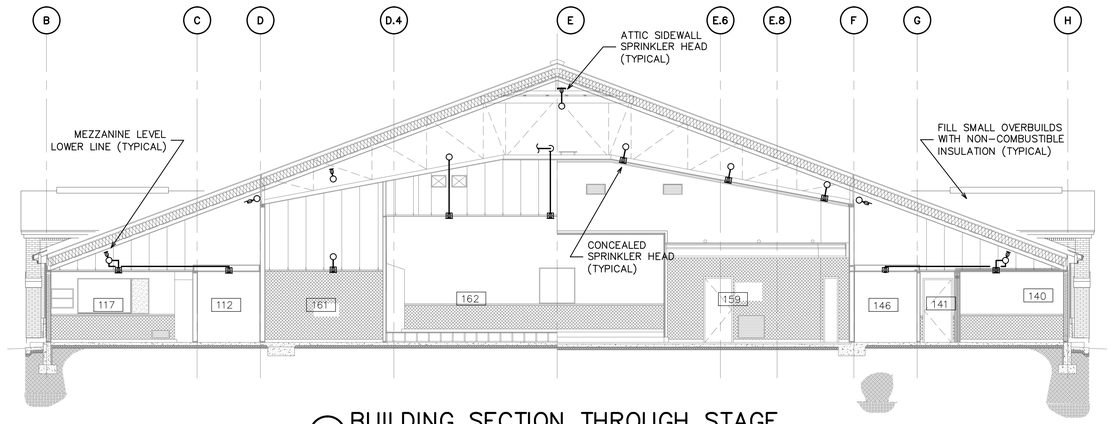
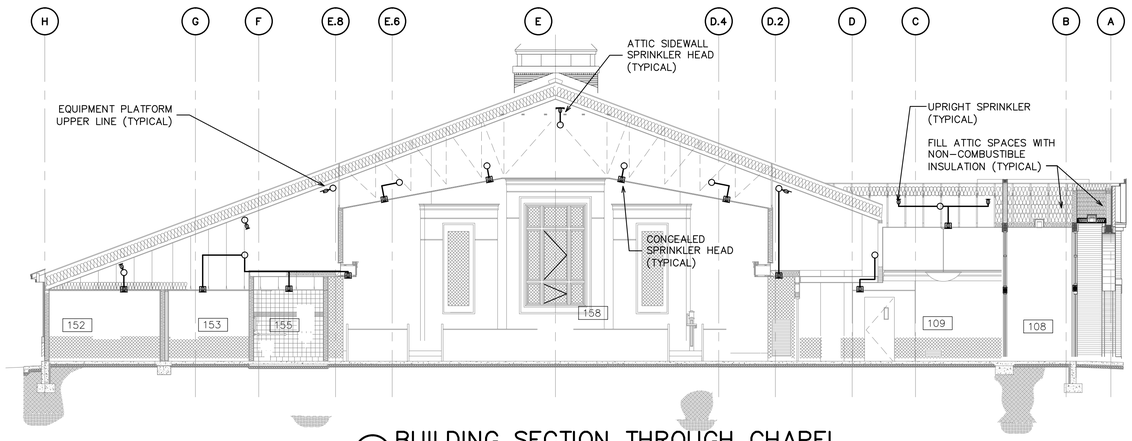
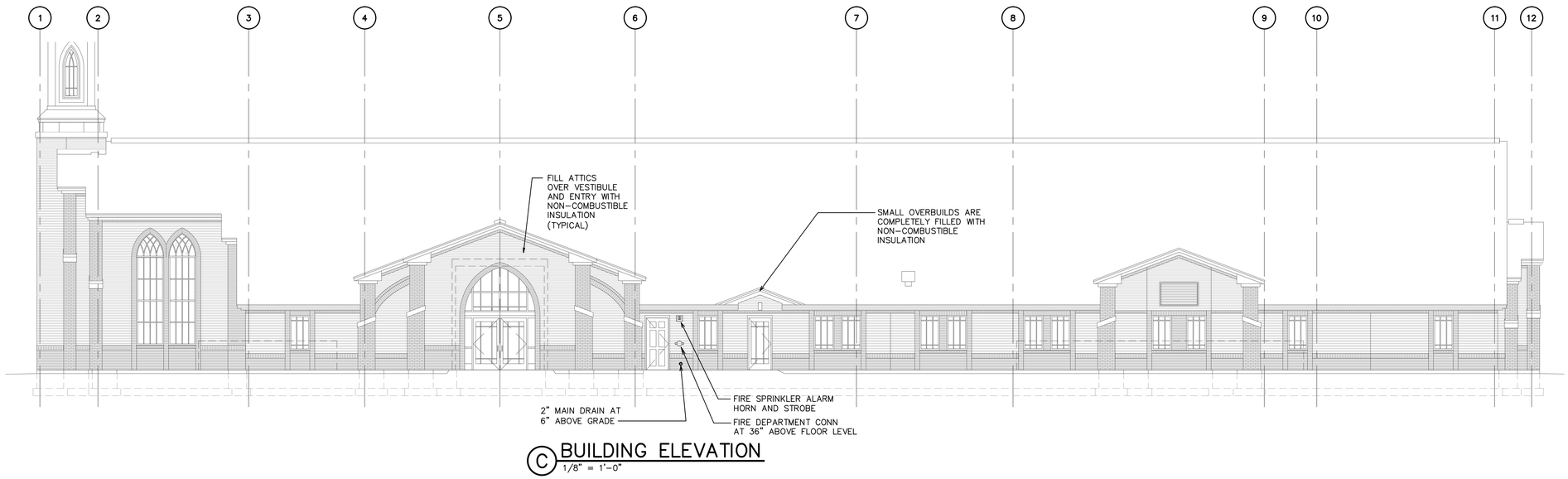


A BUILDING SECTION THROUGH STAGE
1/8" = 1'-0"



B BUILDING SECTION THROUGH CHAPEL
1/8" = 1'-0"



C BUILDING ELEVATION
1/8" = 1'-0"

FIRE SPRINKLER LEGEND

∅	UPRIGHT HEAD ON LINE		PRESSURE GAUGE
∅	CONCEALED PENDENT HEAD	LT	LOW TEMPERATURE SENSOR PROVIDED BY DIVISION 28
⊗	CONCEALED DRY PENDENT HEAD	TS	VALVE TAMPER SWITCH
	SIDE DICHARGE ATTIC HEAD	FS	FLOW SWITCH
	DRY SIDEWALL HEAD RECESSED		FLEXIBLE COUPLING
	DRY SIDEWALL HEAD		SWAY BRACING
	SIDEWALL HEAD RECESSED		ANGLE VALVE
	SIDEWALL HEAD		PIPE SUPPORT
	TYCO MODEL AP ATTIC UPRIGHT HEAD		SPRINKLER PIPING
IT	INSPECTOR'S TEST VALVE		FIRE DEP. CONNECTION
	BALL VALVE 2" & SMALLER BUTTERFLY VALVE 2 1/2" & LARGER		PIPE IN FLOOR STRUCTURE
	PIPE UP / PIPE DOWN		

HEAD COUNT

SPRINKLERS	K-FACTOR	ORIFICE	FINISH	TYPE	CANOPY	DEGREE	QUANTITY
∅	5.6	1/2"	WHITE	WET PENDENT	CONCEALED	155	
∅	5.6	1/2"	BRONZE	UPRIGHT	N/A	212	
⊗	5.6	1/2"	WHITE	DRY PENDENT	CONCEALED	155	
	5.6	1/2"	BRONZE	ATTIC SIDEWALL	N/A	212	
	5.6	1/2"	WHITE	DRY SIDEWALL	RECESSED	155	
E				(E=EXTENDED COVERAGE)			
	5.6	1/2"	WHITE	WET SIDEWALL	RECESSED	155	
	5.6	1/2"	BRONZE	WET SIDEWALL	N/A	212	
	5.6	1/2"	BRONZE	DRY SIDEWALL	N/A	212	
	5.6	1/2"	BRONZE	ATTIC AP UPRIGHT		212	

Note:
The Hydraulic Design Information Tags shall be completed by the Fire Sprinkler Contractor after completion of the hydraulic calculations.

HYDRAULIC DESIGN INFORMATION FOR OFFICE WET SYSTEM
REMOTE AREA = _____ SQUARE FEET
DENSITY = _____ GPM/SQUARE FEET
RISER BASE _____ GPM_____ PSI

HYDRAULIC DESIGN INFORMATION FOR MEZZNAINE WET SYSTEM
REMOTE AREA = _____ SQUARE FEET
DENSITY = _____ GPM/SQUARE FEET
RISER BASE _____ GPM_____ PSI

HYDRAULIC DESIGN INFORMATION FOR ATTIC WET SYSTEM
REMOTE AREA = _____ SQUARE FEET
DENSITY = _____ GPM/SQUARE FEET
RISER BASE _____ GPM_____ PSI

HYDRAULIC DESIGN INFORMATION FOR CHAPEL WET SYSTEM
REMOTE AREA = _____ SQUARE FEET
DENSITY = _____ GPM/SQUARE FEET
RISER BASE _____ GPM_____ PSI

WATER FLOW TEST

TEST DATE: 7/18/2017	TEST TIME: 10:00 am
STATIC: 90 psi	RESIDUAL: 79 psi
FLOW: 1384	LOCATION: Project Site
TEST BY: R. Fazzio (RDFE) and J Hamblin (Syracuse FD)	

NOTES:
1. SEE FS101 FOR GENERAL NOTES.

Architect / Engineer:
BOTT PANTONE ARCHITECTS
600 24TH STREET
OGDEN, UTAH 84401
BPARCHITECTS.NET
P 801.394.3023
F 801.394.3054

Stamp:
REGISTERED FIRE SPRINKLER DESIGNER
No. 158501
ROBERT D. FAZZIO
7/17/2017
UTAH STATE APPROVED

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

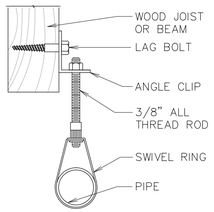
Mark	Date	Description
28-JUL-17	-	BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

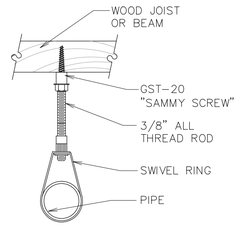
Sheet Title: FIRE SPRINKLER ELEVATION AND SECTIONS

Sheet: FS201

HSAS-FS201.dwg - 08/01/2017 - 11:18 AM



D HANGER DETAIL
NO SCALE



E HANGER DETAIL
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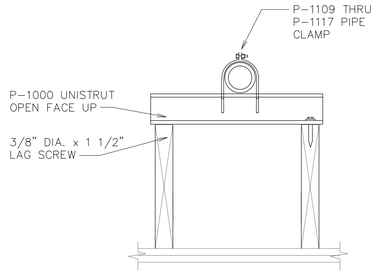

F HANGER DETAIL
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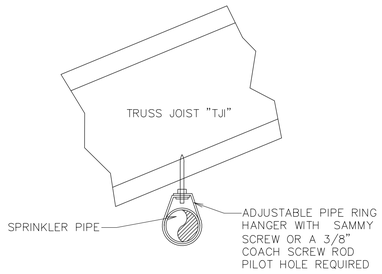

G HANGER DETAIL
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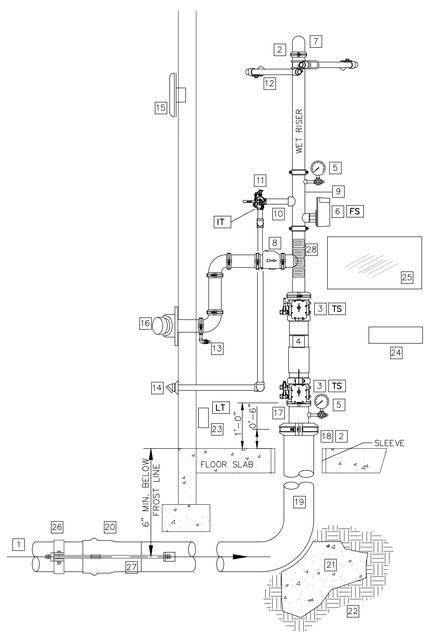


L RISER SCHEMATIC
NO SCALE

WET RISER DETAIL KEYED NOTES:

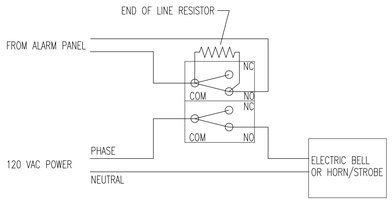
1. WATER SUPPLY FROM CITY WATER MAIN. SEE SITE UTILITY PLAN FOR CONTINUATION.
2. FLEXIBLE GROOVED PIPE COUPLING WHEN SEISMIC BRACING IS REQUIRED. SEE NOTE #12.
3. GROOVED BUTTERFLY VALVE WITH INTEGRAL SUPERVISORY SWITCH
4. DOUBLE CHECK BACKFLOW PREVENTER WITH RELATED TRIM AND GAUGES
5. 3½" DIAMETER WATER GAUGE WITH ¼" TEST AND ISOLATION VALVE.
6. VANE TYPE WATER FLOW SWITCH
7. SUPPLY TO WET PIPE FIRE SPRINKLER SYSTEM
8. SWING CHECK VALVE
9. RISER MANIFOLD – INCLUDES PRESURE GAUGE, FLOW SWITCH, PRESSURE RELIEF VALVE, AND TEST AND MAIN DRAIN DEVICE.
10. INSPECTOR'S TEST & DRAIN VALVE – PIPE TO OUTSIDE.
11. PRESSURE RELIEF VALVE – REQUIRED – SET AT 175 PSI.
12. SEISMIC BRACING REQUIRED IN SEISMIC DESIGN CATEGORY C, D, E, F. SEE DESIGN CRITERIA SCHEDULE ON SHEET S601.
13. ½" AUTOMATIC BALL DRIP VALVE
14. DRAIN PIPING TO OUTSIDE WITH GALVANIZED PIPE, 45 ELL, AND 1-PCE GALV. COLLAR.
15. WEATHERPROOF VOICE ALARM/STROBE (OUTSIDE)
16. OUT TO FIRE DEPARTMENT CONNECTION WITH GALVANIZED SCH 40 PIPING– PROVIDE BALL DRIP WHEN TRAPPING PIPE. SIZE CONNECTION AS REQUIRED.

16.1. NOTE: PIPE FDC TO REMOTE LOCATION WHEN REQUIRED BY FIRE MARSHAL.

17. GALVANIZED SPOOL PIECE WITH PRESSURE GAUGE.
18. REDUCING GROOVED COUPLING OR CONCENTRIC GROOVED REDUCER.
19. AMES STAINLESS STEEL "IN-BUILDING-RISER" NO SUBSTITUTIONS. MINIMUM 6 INCH.
20. TYTON JOINT PIPE CONNECTION WITH GASKET.
21. CONCRETE THRUST BLOCK WITH 8 SQ. FEET HORIZONTAL BEARING AREA (MIN).
22. UNDISTURBED EARTH
23. LOW TEMPERATURE SENSOR – MOUNTED ON WALL – THIS SENSOR IS PROVIDED UNDER DIVISION 28 OF THE SPECIFICATIONS.
24. SPARE HEAD CABINET WITH SPARE SPRINKLER HEADS AND WRENCHES.
25. LAMINATED SYSTEM MAP WITH SYSTEM START-UP AND SHUT-DOWN INSTRUCTIONS.
26. GALVANIZED STEEL PIPE RETAINER CLAMP.
27. GALVANIZED STEEL RODS, SIZE PER NFPA 24, TO INCLUDE WASHERS, ROD COUPLINGS, AND ALL-THREAD RODS WITH DOUBLE HEX NUTS.
28. HYDRAULIC CALCULATION PLACARDS

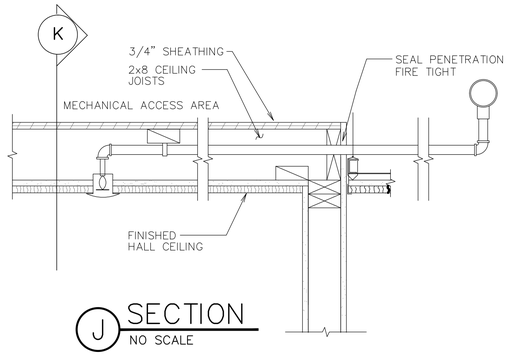
GENERAL NOTES:

1. PROVIDE SLEEVES WHERE PIPING PENETRATES BUILDING AT FLOOR AND WALLS. SEAL AROUND PENETRATION WITH FLEXIBLE MASTIC AT FLOOR. PROVIDE 2" ANNULAR SPACE AROUND PIPE.
2. ALL BURIED STEEL COMPONENTS SHALL BE PROTECTED FROM CORROSION BY THE TAR AND WRAPPED METHOD. GALVANIZED COMPONENTS ARE NOT EXEMPT FROM THIS REQUIREMENT.

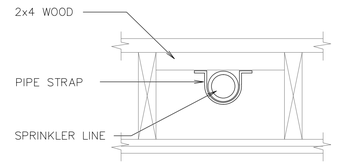


WIRE ALARMS TO CONTACTS THAT ARE NORMALLY OPEN AND THEN CLOSE ON ACTIVATION

H WIRING SCHEMATIC
NO SCALE

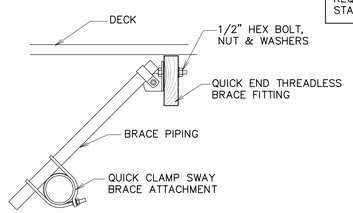


J SECTION
NO SCALE

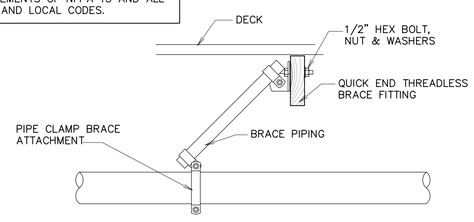


K SECTION
NO SCALE

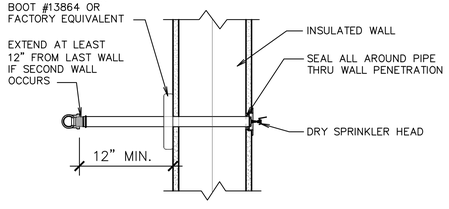
NOTE:
PROVIDE SEISMIC BRACING ONLY IN SEISMICALLY ACTIVE AREAS. BRACING SHALL CONFORM TO THE REQUIREMENTS OF NFPA 13 AND ALL STATE AND LOCAL CODES.



M LATERAL SEISMIC BRACE
NO SCALE



N LONGITUDINAL SEISMIC BRACE
NO SCALE



P DRY HEAD DETAIL
NO SCALE

NOTES:
1. SEE FS101 FOR GENERAL NOTES.
2. SEE FS201 FOR EQUIPMENT LEGEND AND HYDRAULIC INFORMATION PLACARDS.

Architect / Engineer:
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UTAH 84401
BPARCHITECTS.NET
P 801.394.3023
F 801.394.3054

Stamp:
REGISTERED ARCHITECT
No. 15850
ROBERT D. FAZZIO
STATE OF UTAH
11/1/2017

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (d-mm-y)	Description
-	-	-
-	-	-
-	-	-
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-	-	-
-	-	-
28-JUL-17		BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: FIRE SPRINKLER RISER AND DETAILS

Sheet: FS501

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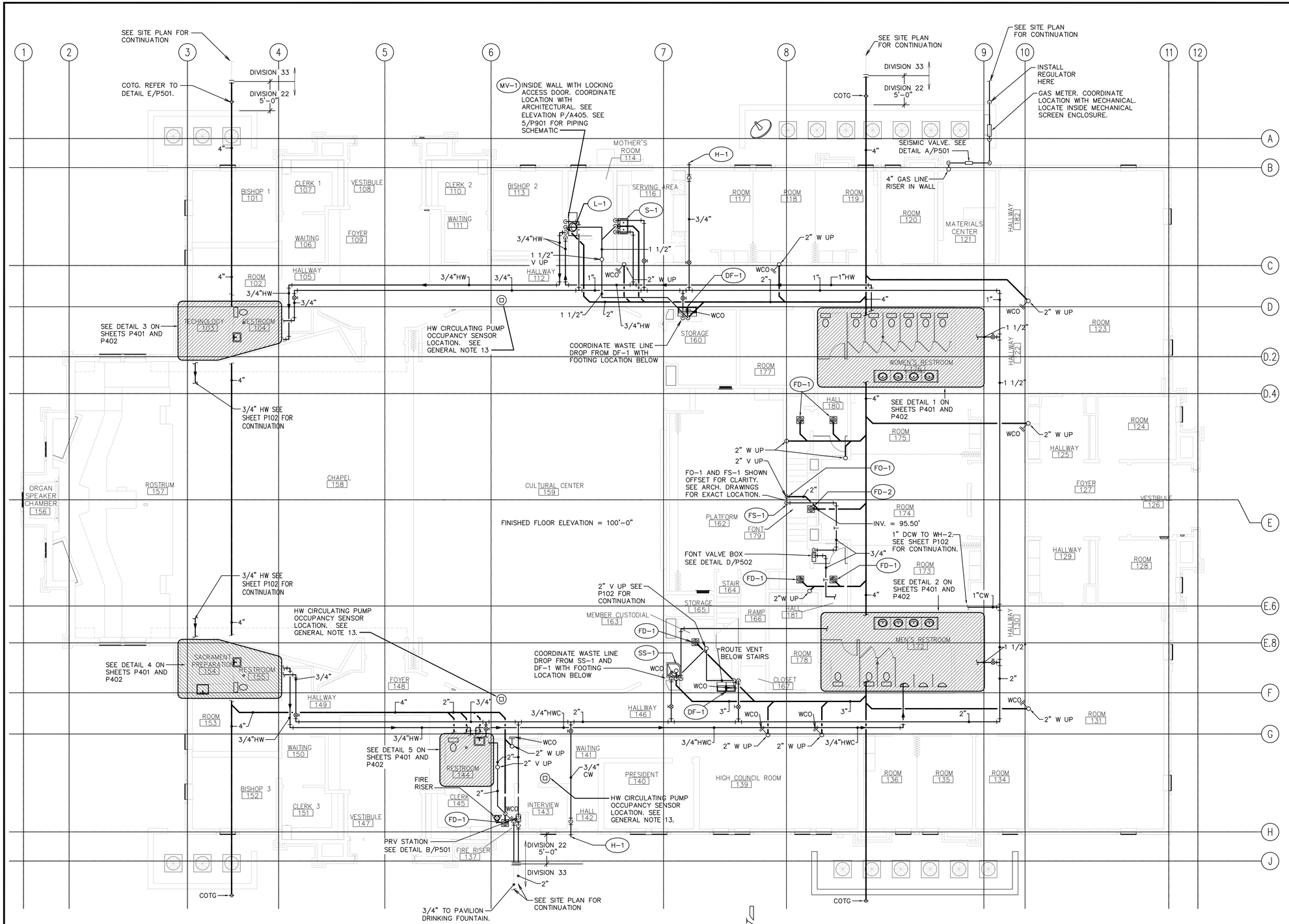


1 PLUMBING FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. ALL PLUMBING SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. ALL FIXTURES SHALL BE PROPERLY VENTED TO THE ATMOSPHERE.
3. REFER TO MECHANICAL SHEETS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK AND CORRELATE ALL WORK TO FIT AVAILABLE SPACE.
4. GAS LINE TO BE RUN IN MECHANICAL EQUIPMENT ACCESS AREA UNLESS OTHERWISE NOTED OR SHOWN.
5. WATER PIPING AND VENT PIPING SHALL BE RUN IN MECHANICAL EQUIPMENT ACCESS AREA UNLESS OTHERWISE NOTED OR SHOWN.
6. FOR INDIVIDUAL LINE SIZES TO FIXTURES SEE PLUMBING FIXTURE SCHEDULE SHEET P601.
7. DO NOT RUN PLUMBING IN SHEAR WALLS UNLESS NOTED OTHERWISE.
8. MINIMUM WATER PIPING UNDER CONCRETE SLAB SHALL BE 3/4".
9. DUE TO THE CLOSE PROXIMITY OF THE WATER, VENT AND DRAIN PIPING AS WELL AS DUCTWORK, EQUIPMENT, AND HVAC PIPING, THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE MECHANICAL AND SHEET METAL CONTRACTORS.
10. FOR PIPE SIZES NOT SHOWN ON THIS SHEET, SEE LARGE SCALE PLANS SHEETS P401 AND P402; AND PIPING SCHEMATICS SHEETS P901, P902 AND P601.
11. REFER TO MECHANICAL SHEETS FOR ANY ADDITION WORK.
12. COORDINATE LOCATION OF EACH DOMESTIC WATER ISOLATION VALVE WITH MECHANICAL AND SHEET METAL INSTALLATION TO PROVIDE REQUIRED ACCESS AND VISIBILITY TO VALVE.
13. COORDINATE EXACT LOCATION OF HW CIRCULATION PUMP OCCUPANCY SENSORS WITH ARCHITECT. LOCATE ON CEILING AWAY FROM LIGHTS, DIFFUSERS, AND FIRE SPRINKLER HEADS.

L E G E N D

MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION	MEANING	SYMBOL OR ABBREVIATION
HOT WATER LINE		VENT LINE		BALL VALVE	
HOT WATER CIRCULATING LINE		CONDENSATE DRAIN	D	WALL CLEANOUT	WCO
TEMPERED HOT WATER LINE	T	SECONDARY CONDENSATE DRAIN	SD	CLEANOUT TO GRADE	COTG
COLD WATER LINE		GAS LINE	G	VENT THRU ROOF	VTR
WASTE LINE		UNION		CIRCULATING PUMP OCCUPANCY SENSOR	

Architect / Engineer:
BOTT PANTONE ARCHITECTS
650 24TH STREET
OGDEN, UT 84401
CONTACT: CHRIS HET
P 801 394-3033
F 801 394-3064

Stamp:
Registered Professional Engineer
NO. 357571
JEFFREY P. DAVIS
08/01/17
State of Utah

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DMY)	Description
28-JUL-17	- - - - - -	BID SET

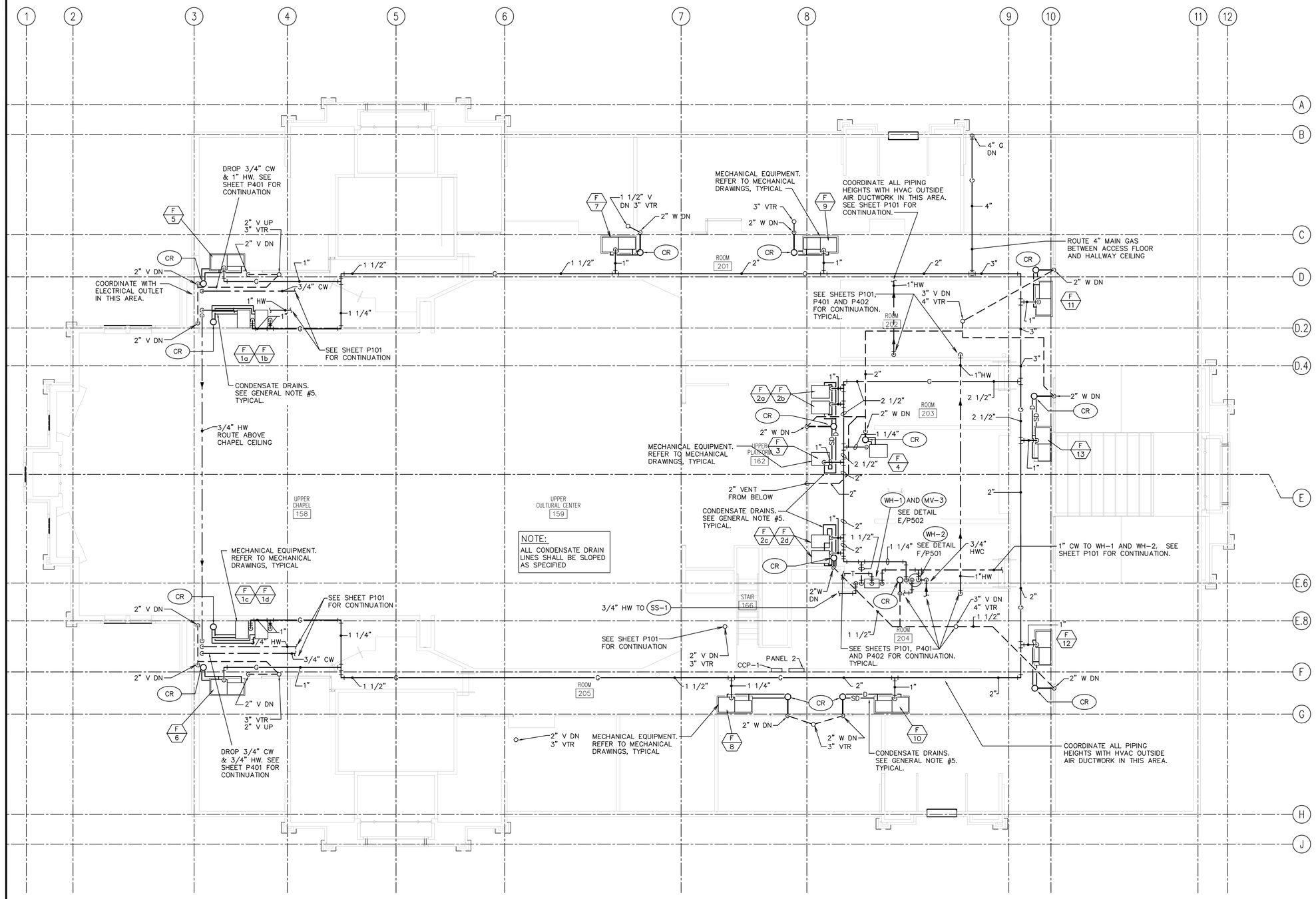
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: MAIN FLOOR PLAN

Sheet: P101

GENERAL NOTES:

1. LEAVE 6" CLEAR SPACE ON EQUIPMENT DECK BETWEEN FAN UNITS, DUCTWORK, ETC. AND HIGH WALL FOR GAS PIPING, CONDUIT, DRAINS, ETC. RACK ALL PIPING AND CONDUIT ON WALL WITH UNISTRUT.
2. REFER TO MECHANICAL SHEETS FOR LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK. COORDINATE ALL WORK TO FIT AVAILABLE SPACE.
3. DO NOT BLOCK ACCESS WALKWAY WITH PIPING, DUCT, CONDUIT, ETC. WHEN CROSSING WALKWAY RUN HIGH OVERHEAD. NO PIPING, DUCTWORK, CONDUIT, ETC. SHALL BE RUN LOWER THAN DUCTWORK SHOWN IN SECTIONS ON SHEETS M301 AND M302.
4. DUE TO THE CLOSE PROXIMITY OF THE WATER, VENT, DRAIN PIPING, AND DUCTWORK, THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WITH THE MECHANICAL AND SHEET METAL CONTRACTORS.
5. TYPICAL FOR ALL FAN UNITS AND COOLING COILS. DO NOT OBSTRUCT WALKWAY. SHOWN HERE FOR CLARITY ONLY. REFER TO DETAIL D/M502, COMBINE PRIMARY DRAINS OF EACH FAN UNIT AND COOLING COIL TO A 1" PIPE SIZE. SEE DETAIL B/P502 FOR PIPE SUPPORT.



1 EQUIPMENT PLATFORM PLAN
1/8" = 1'-0"

Architect / Engineer:
BOTT PANTONE ARCHITECTS
650 24TH STREET
OGDEN, UT 84401
866-464-2753 TOLL-FREE
P 801 394-3033
F 801 394-3064

Stamp:
Registered Professional Engineer
NO. 357571
JEFFREY P. DAVIS
08/01/17
State of Utah

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

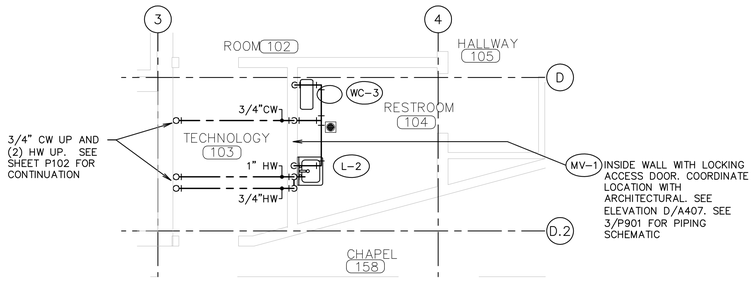
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY-Y)	Description
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
28-JUL-17		BID SET

Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

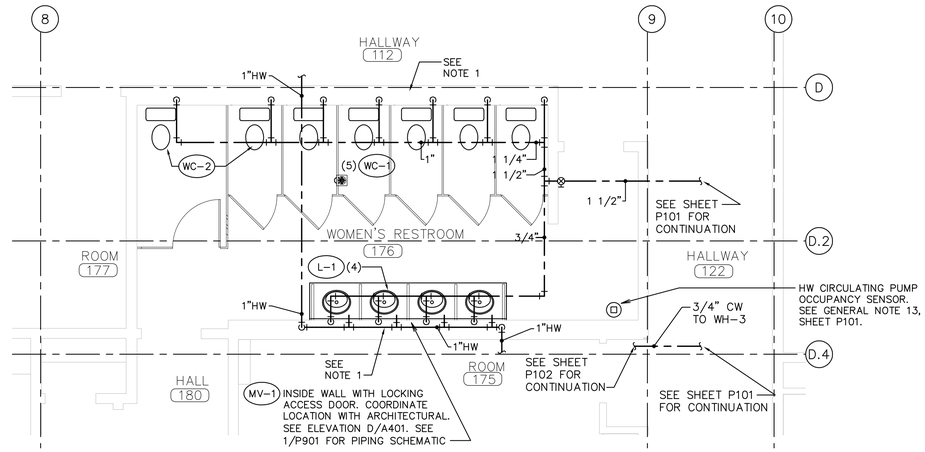
Sheet Title: EQUIPMENT PLATFORM PLAN

Sheet: P102



RESTROOM 104 WATER SUPPLY

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

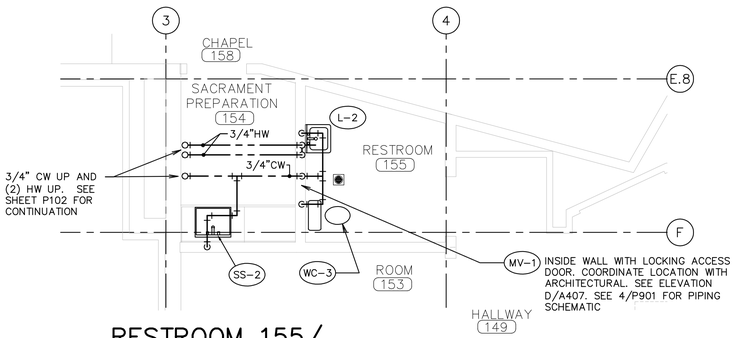


WOMENS RESTROOM 176 WATER SUPPLY

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

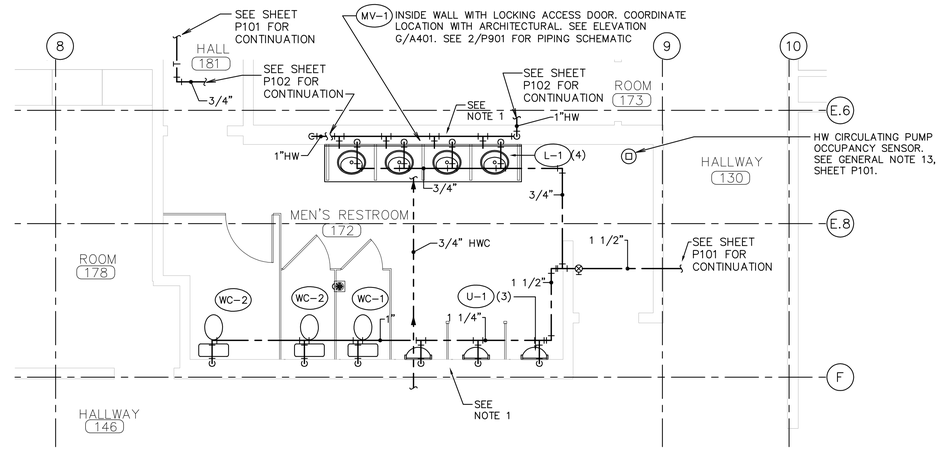
NOTE

1. ALL PIPING TO BE LOCATED WITHIN PLUMBING WALL, NOT STRUCTURAL SHEAR WALL. SEE DETAILS Q/S501 AND H/S501 FOR PIPING LOCATION.



RESTROOM 155/ SACRAMENT PREP. 154 WATER SUPPLY

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

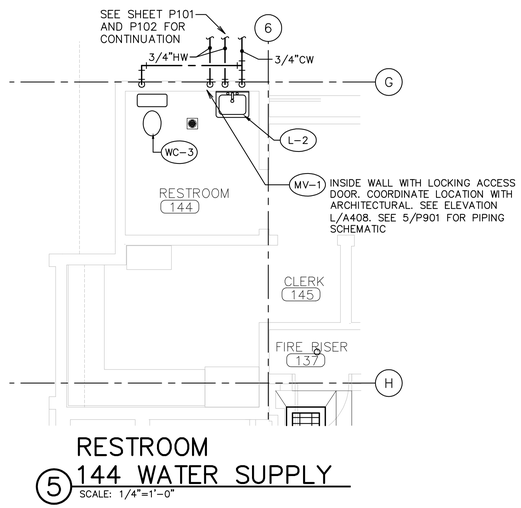


MEN'S RESTROOM 172 WATER SUPPLY

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

NOTE

1. ALL PIPING TO BE LOCATED WITHIN PLUMBING WALL, NOT STRUCTURAL SHEAR WALL. SEE DETAILS Q/S501 AND H/S501 FOR PIPING LOCATION.



RESTROOM 144 WATER SUPPLY

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

Architect / Engineer:
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
801-627-1533 FAX
P 801.394.3033
F 801.394.0064

Stamp:
Registered Professional Engineer
NO. 357571
JEFFREY P. DAVIS
08/01/17
State of Utah

FREMONT WARD & SYRACUSE WEST STAKE CENTER

1956 SOUTH 3000 WEST
SYRACUSE, UTAH

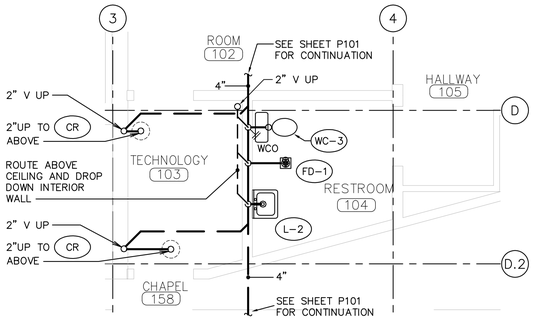
Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
	28-JUL-17	BID SET

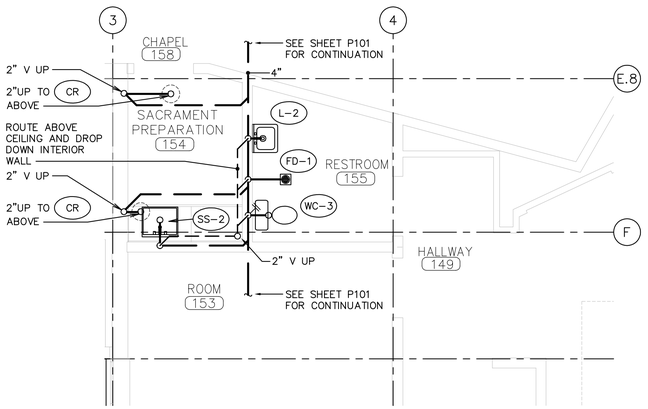
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

Sheet Title: LARGE SCALE PLUMBING WATER SUPPLY PLANS

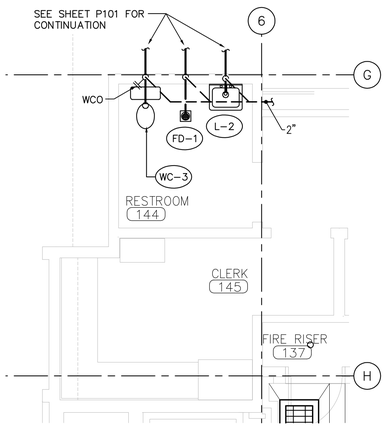
Sheet: P401



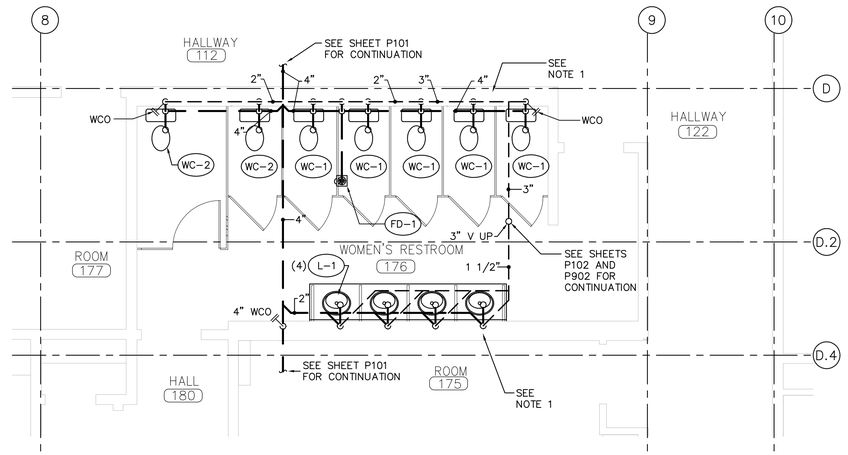
RESTROOM
3 104 WASTE AND VENT
SCALE: 1/4"=1'-0"



RESTROOM 155/
4 SACRAMENT PREP. 154 WASTE AND VENT
SCALE: 1/4"=1'-0"



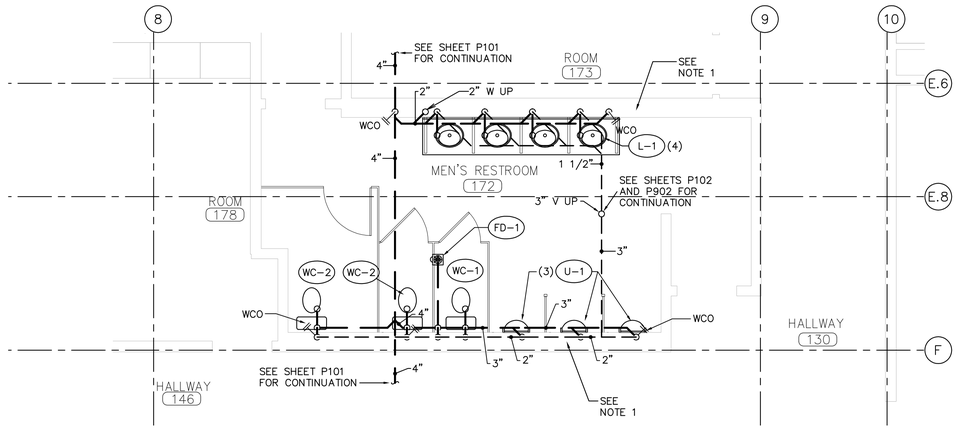
RESTROOM
5 144 WASTE AND VENT
SCALE: 1/4"=1'-0"



1 WOMENS RESTROOM 176 WASTE AND VENT
SCALE: 1/4"=1'-0"

NOTE

1. ALL PIPING TO BE LOCATED WITHIN PLUMBING WALL, NOT STRUCTURAL SHEAR WALL. SEE DETAILS Q/S501 AND H/S501 FOR PIPING LOCATION.



2 MEN'S RESTROOM 172 WASTE AND VENT
SCALE: 1/4"=1'-0"

NOTE

1. ALL PIPING TO BE LOCATED WITHIN PLUMBING WALL, NOT STRUCTURAL SHEAR WALL. SEE DETAILS Q/S501 AND H/S501 FOR PIPING LOCATION.

Architect / Engineer:
BOTT PANTONE ARCHITECTS
650 24TH STREET
OGDEN, UT 84401
ENGINEERS-ET AL
P 801.394.3033
F 801.394.0064

Stamp:
Registered Professional Engineer
NO. 357571
JEFFREY P.
DAVIS
08/01/17
State of Utah

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
SYRACUSE, UTAH

Project for:
THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Mark	Date (DAY)	Description
28-JUL-17	-	BID SET

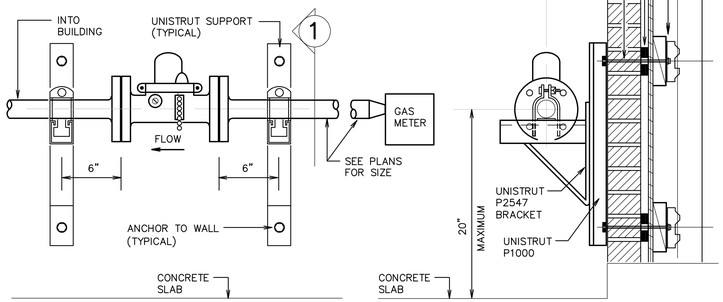
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

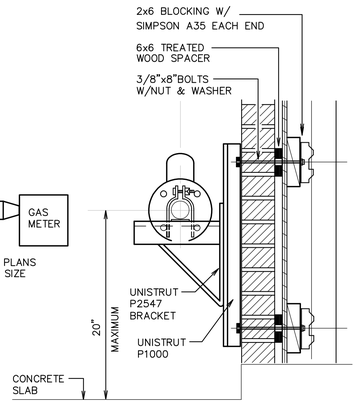
Sheet Title:
LARGE SCALE PLUMBING WASTE AND VENT PLANS

Sheet:
P402

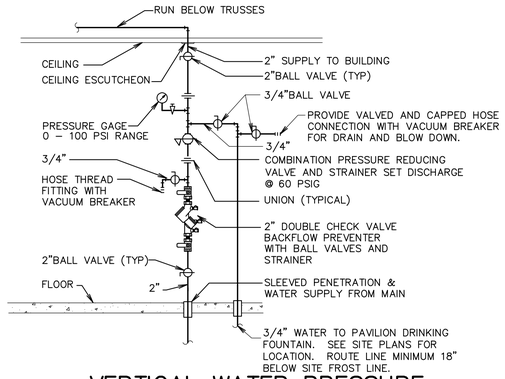
NOTES:

1. VALVE MUST BE INSTALLED WITH THE CHAIN AND RESET BUTTON FACING OUT AND ACCESSIBLE.
2. THE CHAIN IS A PLUMB LINE. MAKE SURE VALVE IS MOUNTED ABSOLUTELY LEVEL AND NO PART OF THE CHAIN IS TOUCHING THE RING.
3. VALVE MUST BE INSTALLED WITH GAS FLOW IN DIRECTION OF "ARROW " CAST INTO VALVE BODY.
4. SEISMIC VALVE TO BE LOCATED WITHIN THE FIRST SIX LINEAL FEET OF PIPE FROM METER.
5. SEISMIC VALVE MUST BE SAME SIZE AS LINE INTO BUILDING. SEISMIC VALVE MUST BE 2" MINIMUM FLANGED.

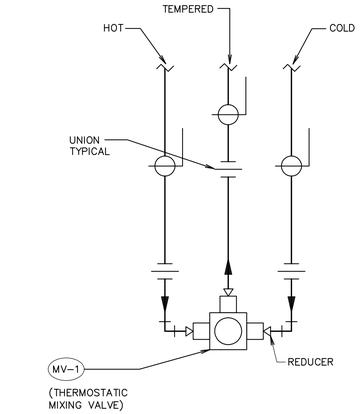




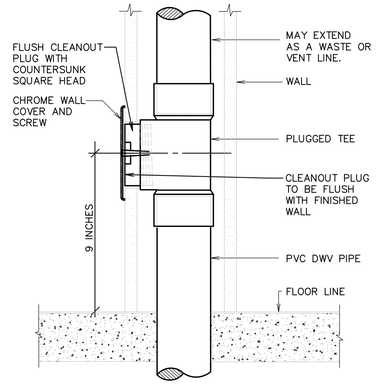
A SEISMIC VALVE DETAIL
SCALE: NONE



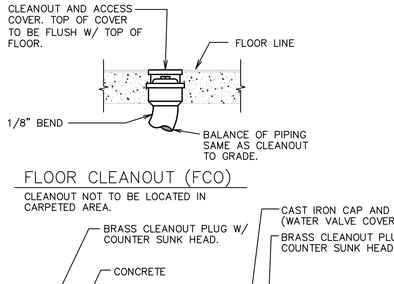
VERTICAL WATER PRESSURE REDUCING STATION DETAIL
B
SCALE: NONE



MIXING VALVE PIPING SCHEME
C
SCALE: NONE

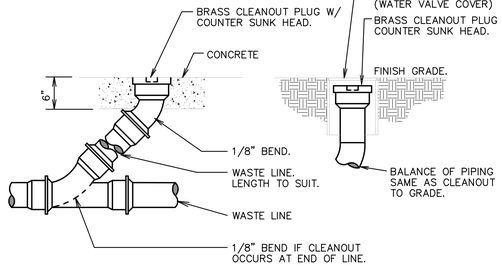


WALL CLEANOUT DETAIL
D
SCALE: NONE



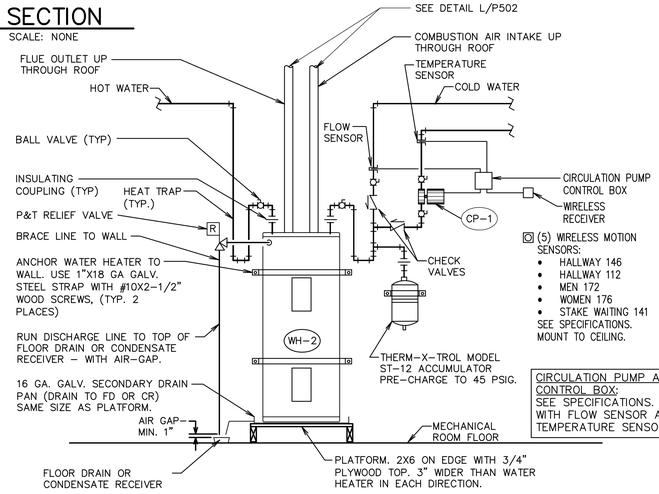
FLOOR CLEANOUT (FCO)

CLEANOUT NOT TO BE LOCATED IN CARPETED AREA.



CLEANOUT TO GRADE (COTG) (CONCRETE & GRADE)

CLEANOUT DETAILS
E
SCALE: NONE



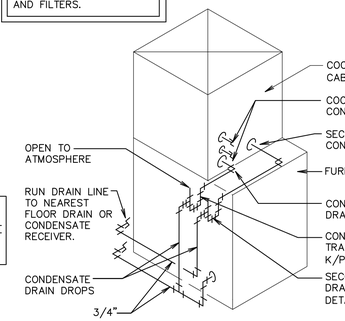
(5) WIRELESS MOTION SENSORS:
- HALLWAY 146
- HALLWAY 112
- MEN 172
- WOMEN 176
- STAKE WAITING 141

SEE SPECIFICATIONS. MOUNT TO CEILING.

CIRCULATION PUMP AND CONTROL BOX:
SEE SPECIFICATIONS. COMPLETE WITH FLOW SENSOR AND TEMPERATURE SENSOR.

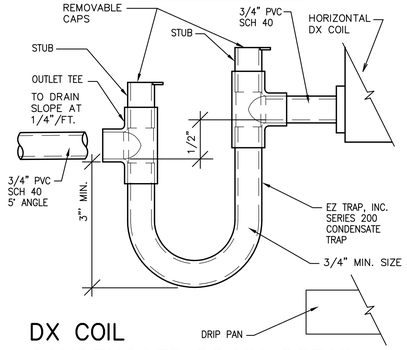
TANK WATER HEATER PIPING DETAIL
F
SCALE: NONE

NOTE:
DO NOT RUN CONDENSATE DRAIN IN FRONT OF FURNACE AND FILTERS. THIS WILL ALLOW ACCESS TO FURNACE COMPONENTS AND FILTERS.

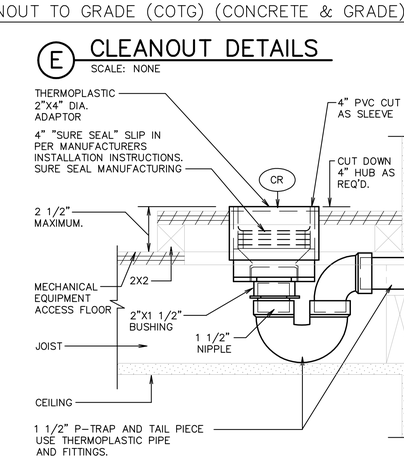


VERTICAL FURNACE DETAIL
G
SCALE: NONE

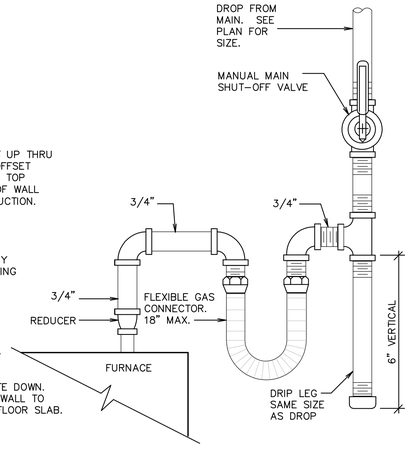
NOTE:
SEE DETAIL K/P501 AND L/P501 FOR SECONDARY DRAIN AT VERTICAL SYSTEMS



DX COIL CONDENSATE DRAIN DETAIL
M
SCALE: NONE

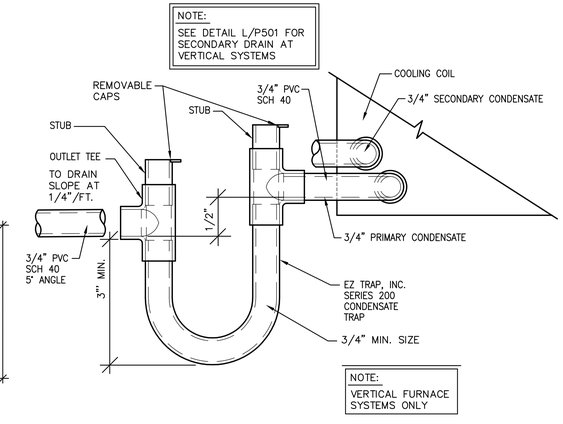


CONDENSATE RECEIVER DETAIL
H
SCALE: NONE



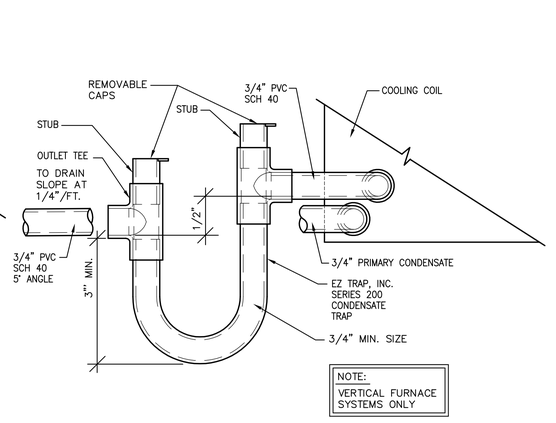
GAS LINE CONNECTION DETAIL
J
SCALE: NONE

NOTE:
SEE DETAIL L/P501 FOR SECONDARY DRAIN AT VERTICAL SYSTEMS



NOTE:
VERTICAL FURNACE SYSTEMS ONLY

DX COIL CONDENSATE DRAIN DETAIL
K
SCALE: NONE



NOTE:
VERTICAL FURNACE SYSTEMS ONLY

DX COIL SECONDARY CONDENSATE DRAIN DETAIL
L
SCALE: NONE

Architect / Engineer:
BOTT PANTONE ARCHITECTS
620 24TH STREET
OGDEN, UT 84401
801-394-3033 OFFICE
801-394-3033 FAX
P 801.394.3033
F 801.394.0064

Stamp:
Registered Professional Engineer
NO. 357571
JEFFREY P. DAVIS
08/01/17
State of Utah

FREMONT WARD & SYRACUSE WEST STAKE CENTER
1956 SOUTH 3000 WEST
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Project for:
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Mark	Date (DAY)	Description
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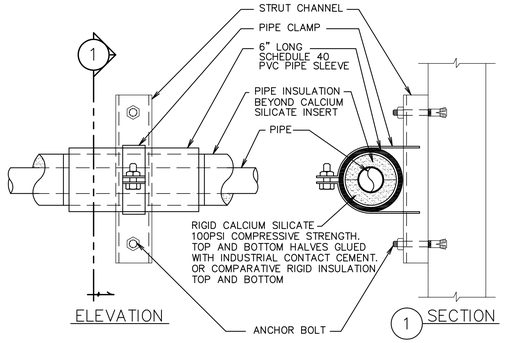
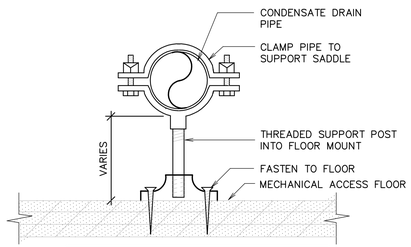
Project Number: 0761
Plan Series: HET-SAS-09-07
Property Number: 500-1632

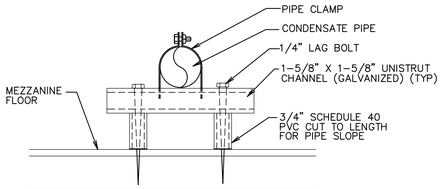
Sheet Title: PLUMBING DETAILS

Sheet: P501



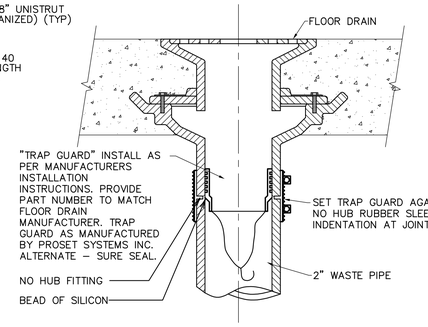
A WALL PIPE SUPPORT DETAIL
SCALE: NONE



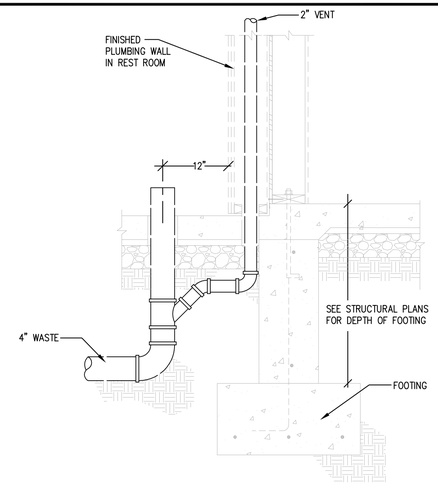


CONDENSATE DRAIN PIPING MAY BE INSTALLED USING EITHER OF OF THESE TWO SUPPORT METHODS.

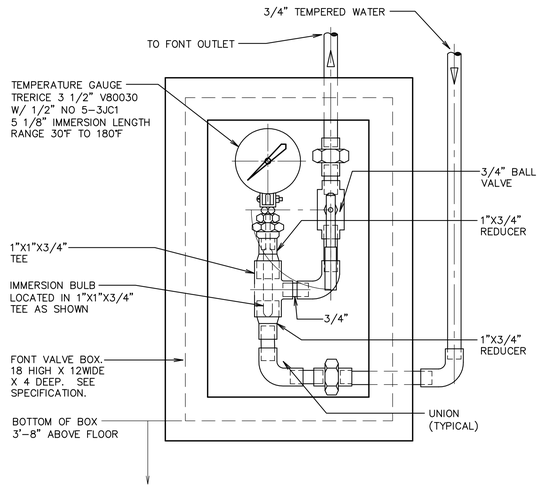
B CONDENSATE DRAIN PIPE SUPPORT DETAIL
SCALE: NONE



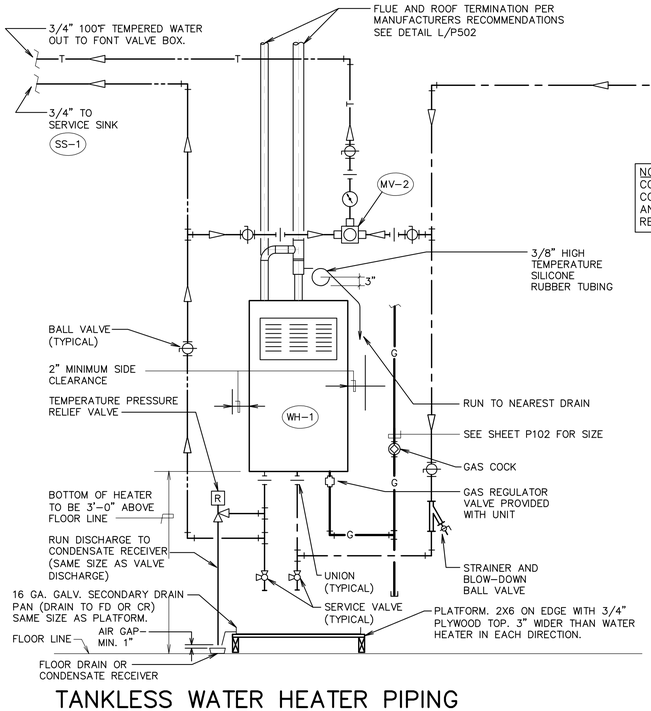
C TRAP GUARD TRAP SEAL DETAIL
SCALE: NONE



F PLUMBING WATER CLOSET ROUGH-IN IN RESTROOM AT BEARING WALL DETAIL
NO SCALE

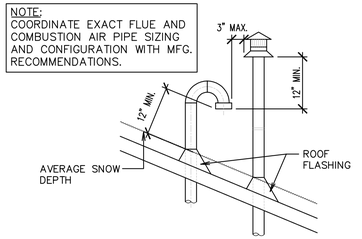


D FONT VALVE BOX DETAIL
SCALE: NONE

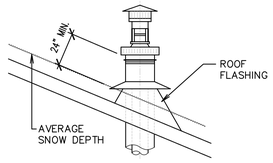


E TANKLESS WATER HEATER PIPING DETAIL AND VENTING PENETRATION DETAILS
SCALE: NONE

NOTE:
COORDINATE EXACT FLUE AND COMBUSTION AIR PIPE SIZING AND CONFIGURATION WITH MFG. RECOMMENDATIONS.

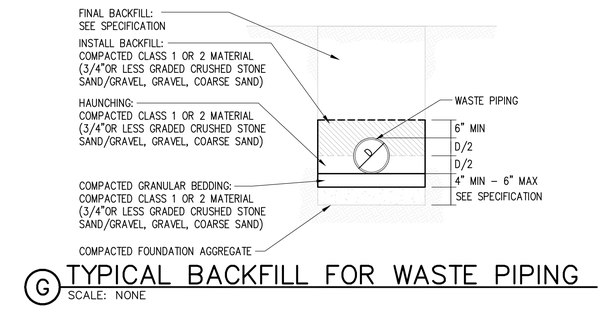


DOUBLE ROOF PENETRATION

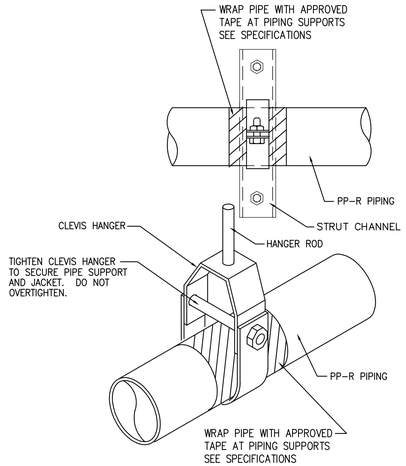


SINGLE ROOF PENETRATION

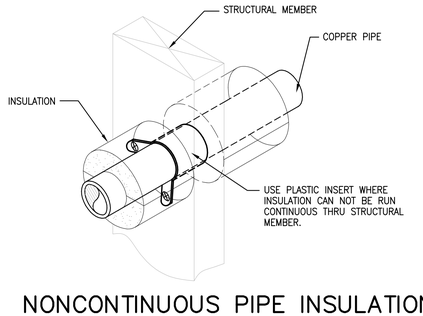
L VENTING PENETRATION DETAILS
SCALE: NONE



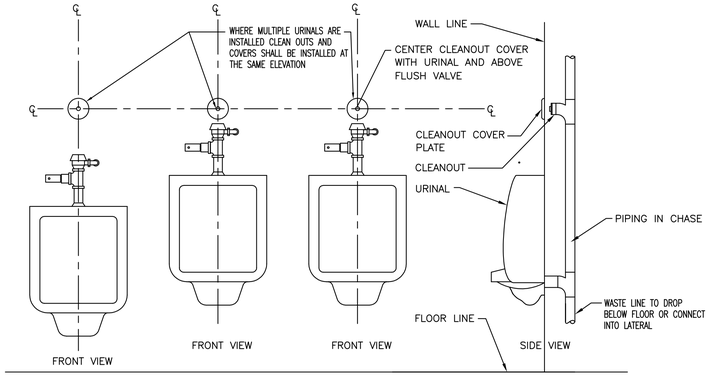
G TYPICAL BACKFILL FOR WASTE PIPING
SCALE: NONE



H PP-R PIPING SUPPORT DETAIL
NO SCALE



J NONCONTINUOUS PIPE INSULATION THROUGH STRUCTURE DETAIL
SCALE: NONE



K URINAL CLEANOUT DETAIL
SCALE: NONE

Architect / Engineer:
BOTT PANTONE ARCHITECTS
650 24TH STREET
OGDEN, UT 84401
BOTTPANTONE.COM
P 801.394.3033
F 801.394.0064

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Mark	Date (DAVY)	Description
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Sheet Title: PLUMBING DETAILS

Sheet: P502