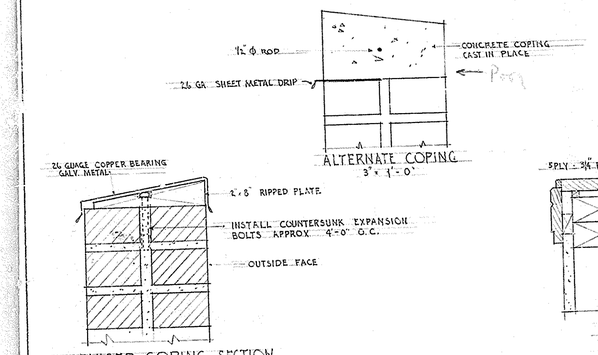
REVISED COPING DET'L
3" 1'-0"

ADDENDUM

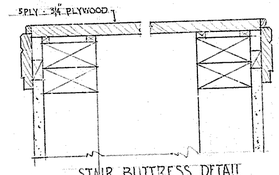
Job 515
MEHAN WARD
MEHAN IDAHO.
CANNON & MULLEN ARCHT.
SALT LAKE CITY, UTAH.
11 · 8 · 39

607



ALTERNATE COPING
3" x 1'-0"

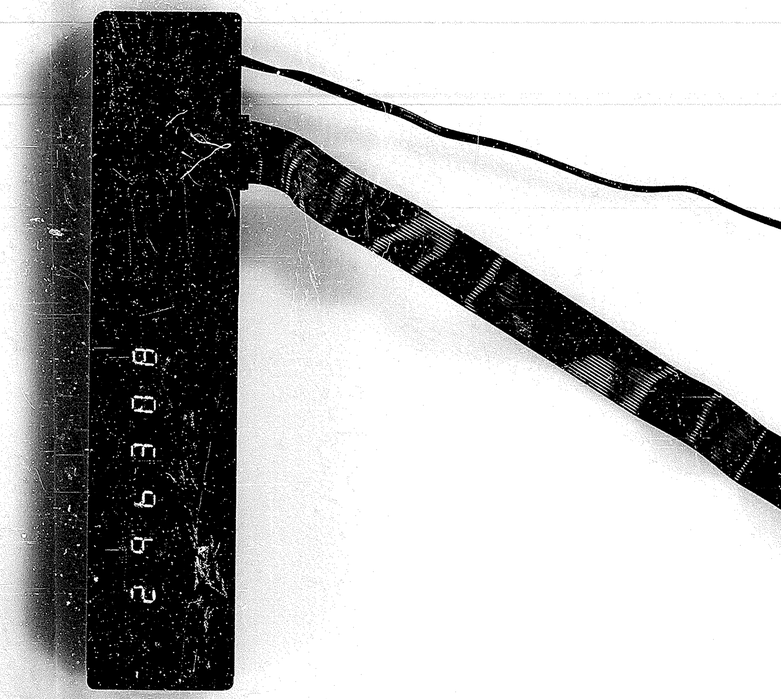
REVISED COPING SECTION
3" = 1'-0"

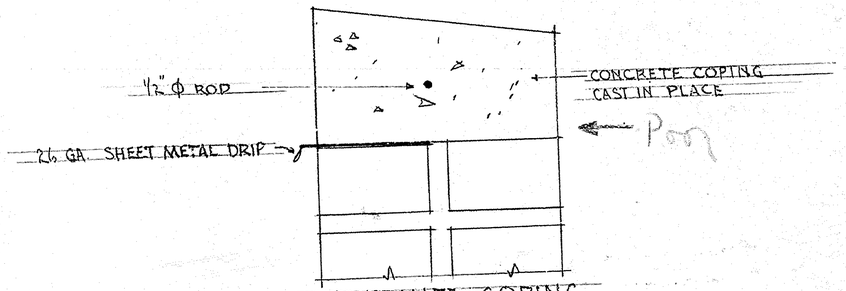


STAIR BUTTRESS DETAIL
3" = 1'-0"
SEE SEC. 2 - SHEET 10

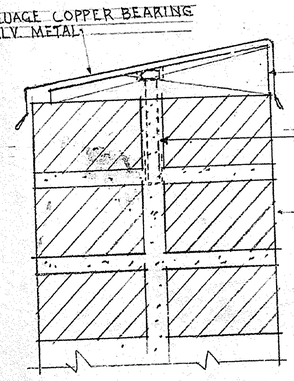
Marian Ward
Marian Idaho
Cummins Mullen Architects
Salt Lake City Utah
Oct 14, 1939

(606)

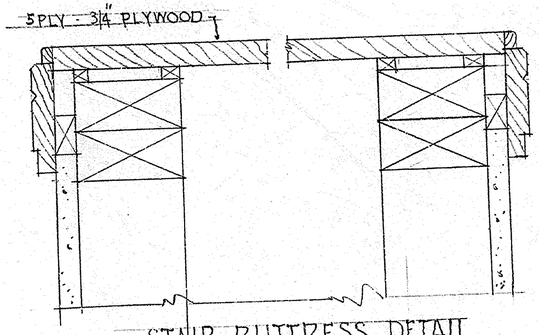




ALTERNATE COPING
3" = 1'-0"



REVISED COPING SECTION
3" = 1'-0"



STAIR BUTTRESS DETAIL
3" = 1'-0"
SEE SEC. 2 - SHEET 10

296318

Merian Ward
Merian, Idaho
Cannon & Mullen Archts
Salt Lake City Utah
Oct 14, 1939

606

ROOM	FLOOR	DOORS	TRIM	WAINSCOT	WALLS	CEILING	NOTES
VESTIBULE STAIR HALL #1	Silver Gray #2062	Driftwood #2063	Driftwood #2063	Monterey Gray #465	Decant Ivory #460	Decant Ivory #460	Submit design for stencil. Finish stencil in Green & Gold Finish exterior doors in Dark Oak
CHAPEL	See Specs	Antique Green	lighter green	–	Gold	–	Submit propored decorating scheme
RECREATION HALL	See Specs	Driftwood #2063	Driftwood #2063	Foam Green #461	Monterey Gray #465	–	" " " "
STAGE	See Specs	Silver Gray #2062	Silver Gray #2062	–	Horizon Blue #463	Horizon Blue #463	
BISHOP'S OFFICE	See Specs	Warm light Green	Warm light Green	–	Canary #4158	–	Submit design for Stencil, Stencil to be darker tone of wall color
CLASS RM 1107 INCLV KINDER GRT BANQUET RM HALL #3 COAT RM LARONIC PRIESTHOOD STAIR HALL #2	Silver white #5478	Silver Gray #2062	Silver Gray #2062	Foam Green #461	Green lighter than #461	Green lighter than wall	Floors include cement base
RELIEF SOCIETY	Silver White #5478	Silver Gray #2062	Silver Gray #2062	Foam Green #461	Green lighter than #461	Cream #4164	Submit design for stencil. Stencil to be Apricot #4157 Ceiling includes wall to top of stencil Floor includes Base
KITCHEN MENS RM	Silver White #5478	Silver Gray 2062	Silver Gray #2062	Monterey Gray #465	Monterey Gray #465	White	Kitchen cabinets to be finished in white. Toilet stalls in Silver gray.
WOMENS RM	Silver White	Driftwood #2063	Driftwood #2063	Wisteria #468	Wisteria #468	White	Toilet stalls to be finished in white Floor includes base
BOILER RM COAL RM. SAC. RM. BOOK ST. CLOSETS	See spec.	Silver Gray #2062	Silver Gray #2062	–	–	–	

NOTE:

Submit samples for stain & varnish work on type of wood to be used
Submit sketches showing extent of decorating and color scheme proposed for chapel and recreation hall under $350.00 allowance in Specs.
Exterior wood work, window sash, frames, and muntins to be finished in cream #5430
See specs. for types of finish. and extent of painting not in this schedule

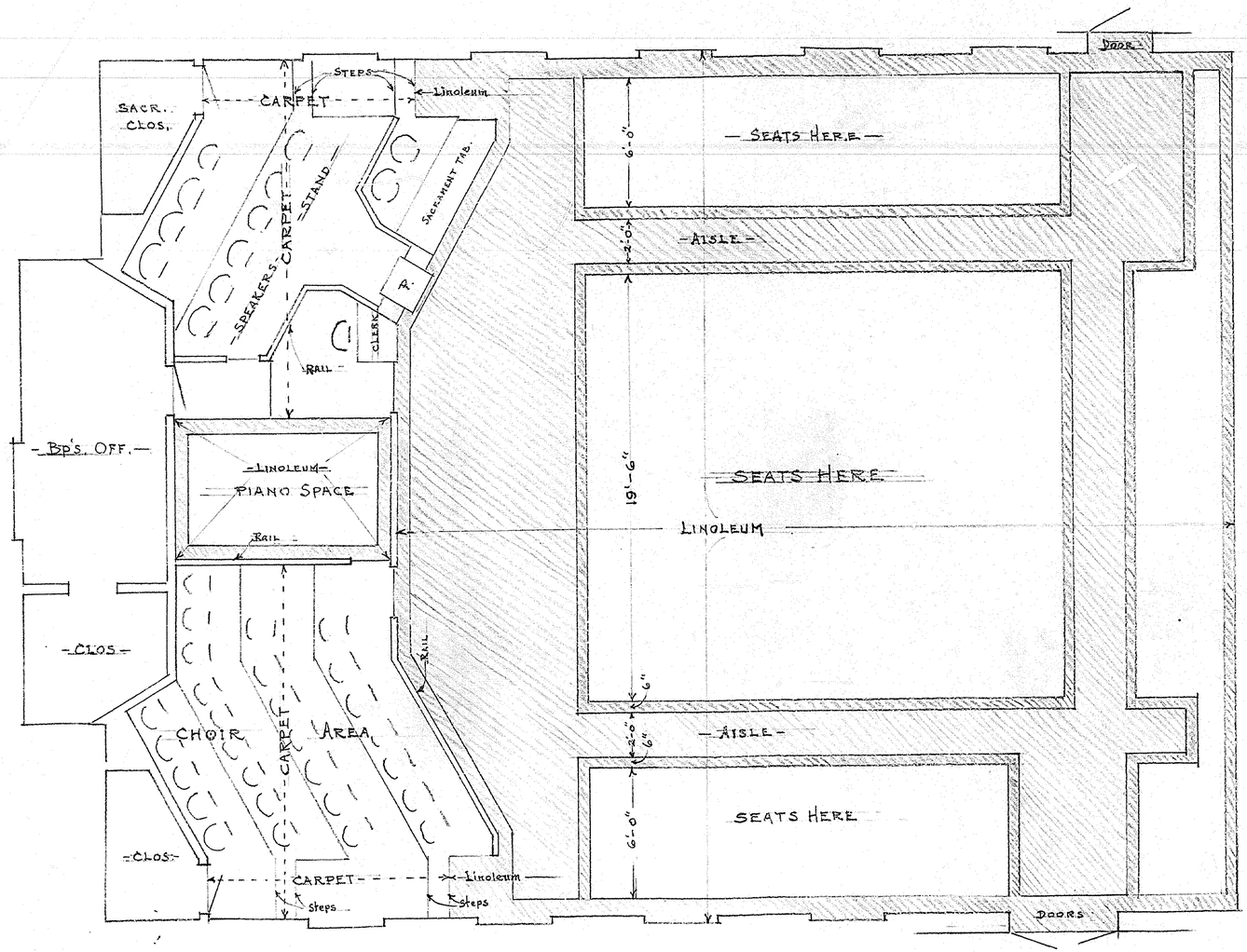
Mesaw L.D.S. Chapel
Cannon & Matthews Architects
10 - 12 - 39

295303

Trimming line

(605)

12x



- CHAPEL PLAN -

— SHOWING LINOLEUM AND CARPET COVERED AREAS —

- SCALE 1/4" -

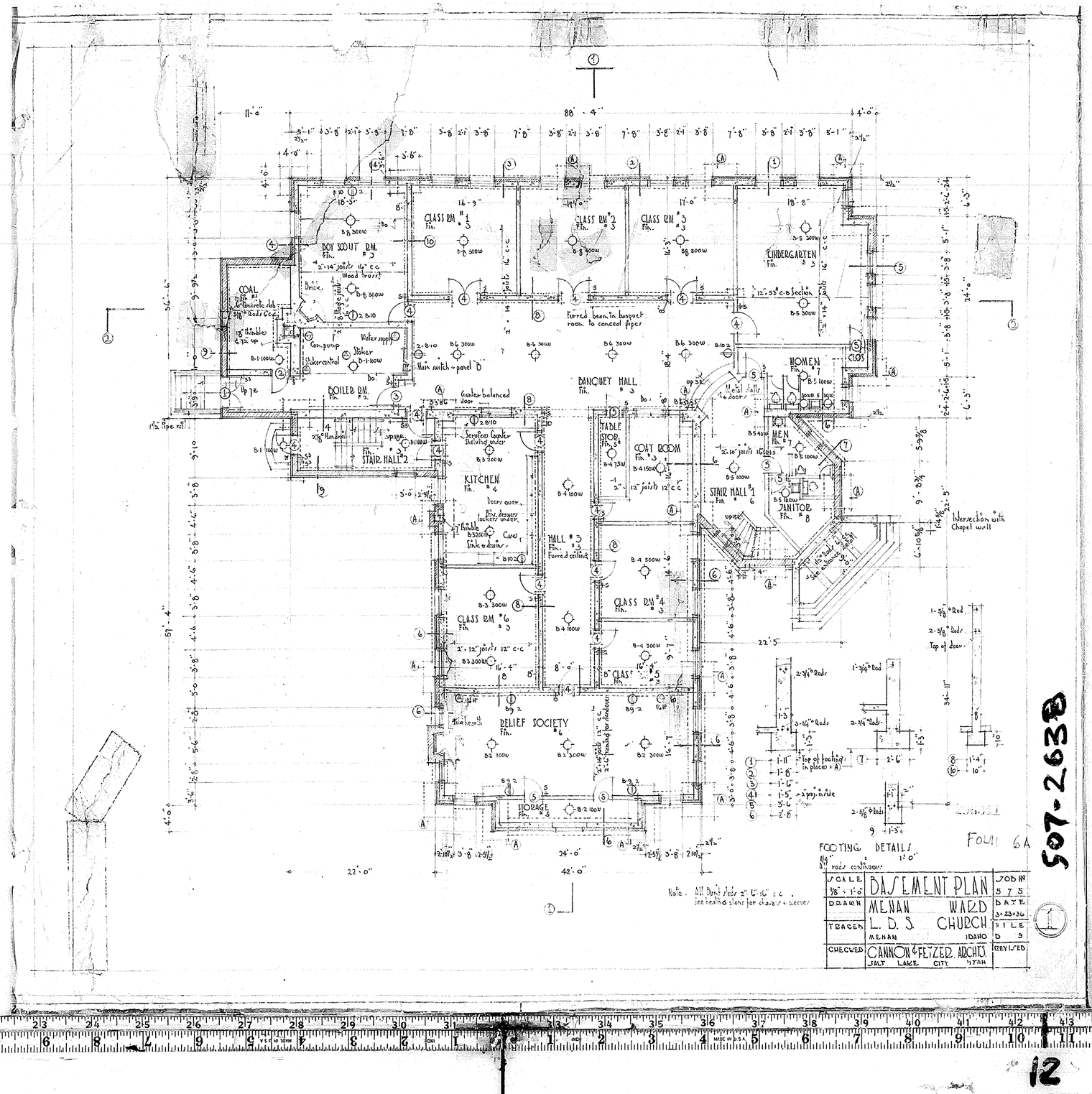
LDS CHAPEL - MENAN, IDAHO -

CANNON AND MULLEN, ARCHTS.

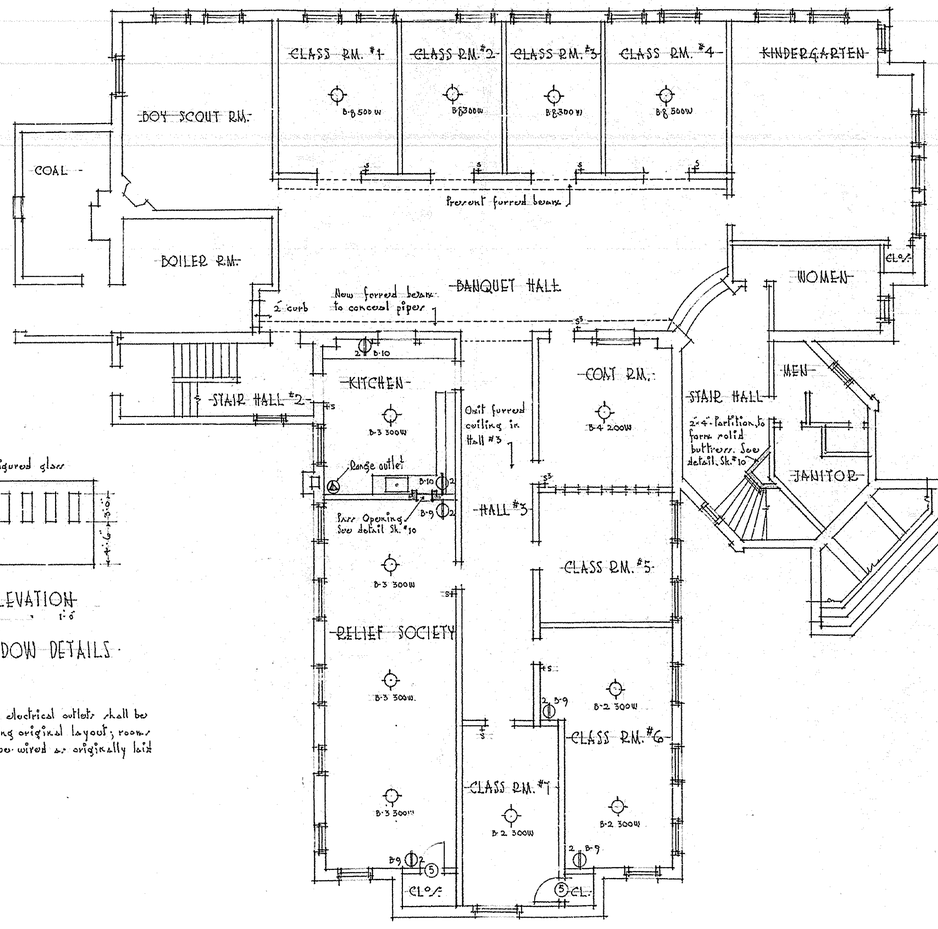
12/15/39 SALT LAKE CITY, UTAH

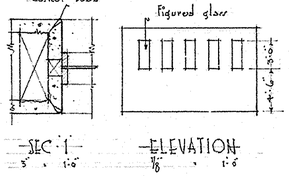
296310

(604)



SCALE 1/8" = 1'-0"	BASEMENT PLAN	JOB Nº 575
DRAWN	MENAN WARD	DATE 3-23-36
TRACED	L. D. S. CHURCH MENAN IDAHO	FILE D 9
CHECKED	CANNON & FELTZER, ARCHTS SALT LAKE CITY UTAH	REVISED





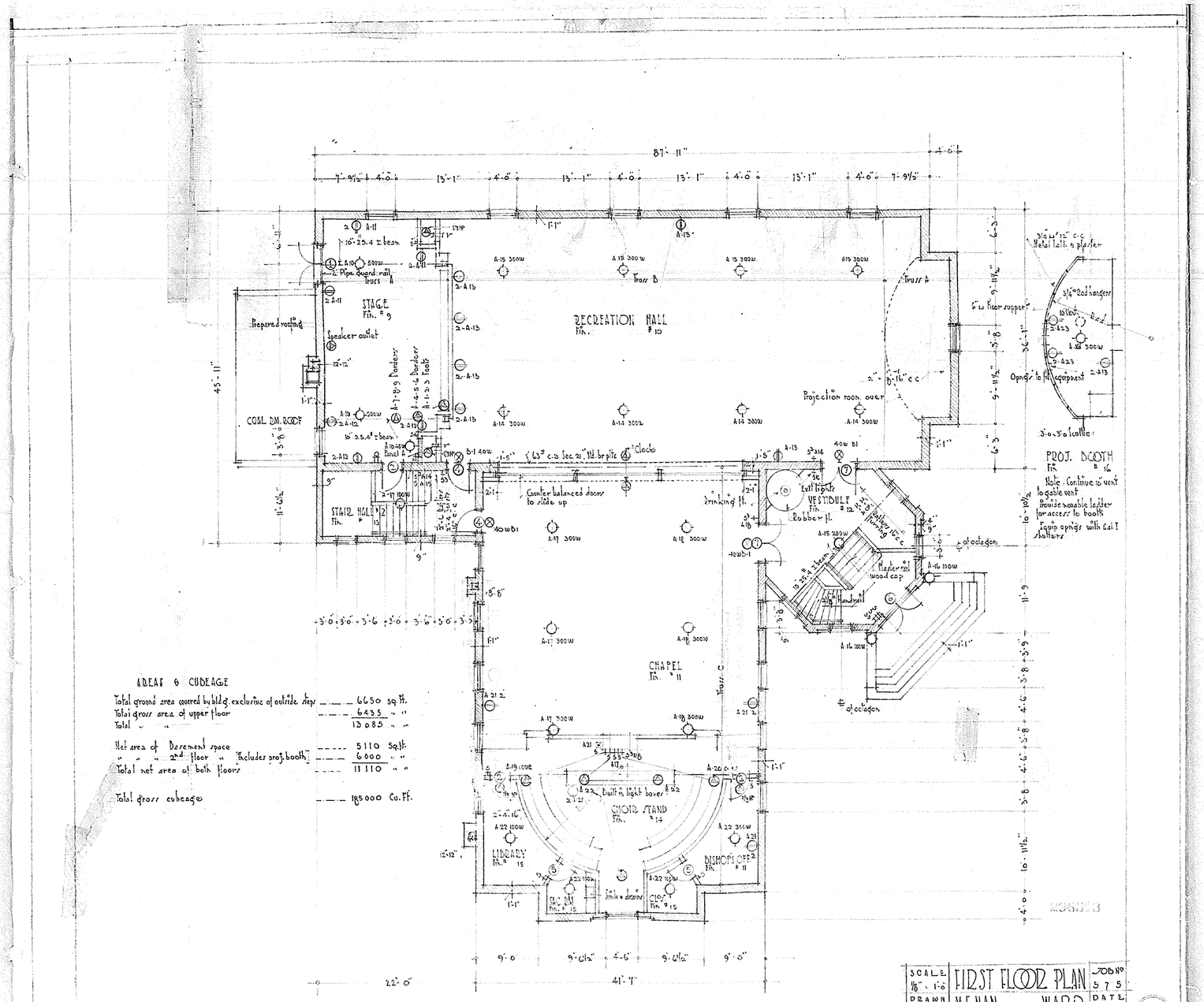
COAT ROOM WINDOW DETAILS

NOTES: Rooms showing electrical outlets shall be wired as shown, disregarding original layout; rooms not showing outlets will be wired as originally laid out.

288.012

SCALE 1/8" = 1'0"	BASEMENT PLAN	JOB No 575
DRAWN R. F. M.	MENAN WARD	DATE 8-1-39
TRACED R. F. M.	L. D. S. CHURCH MENAN IDAHO	FILE D-9
CHECKED J. L. M.	CANNON & PFEIFER ARCHTS. SALT LAKE CITY, UTAH.	REVISED 8-1-39

A-4

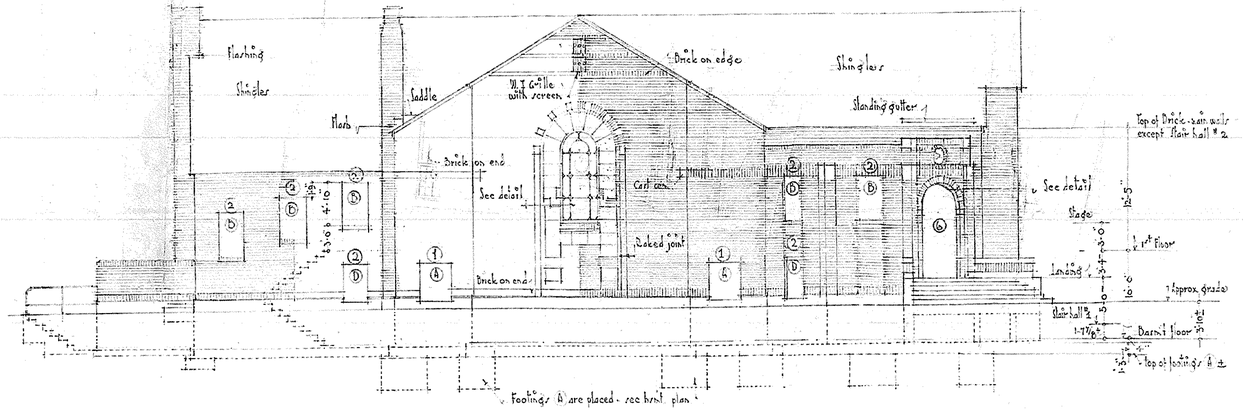


AREAS & CUBEAGE

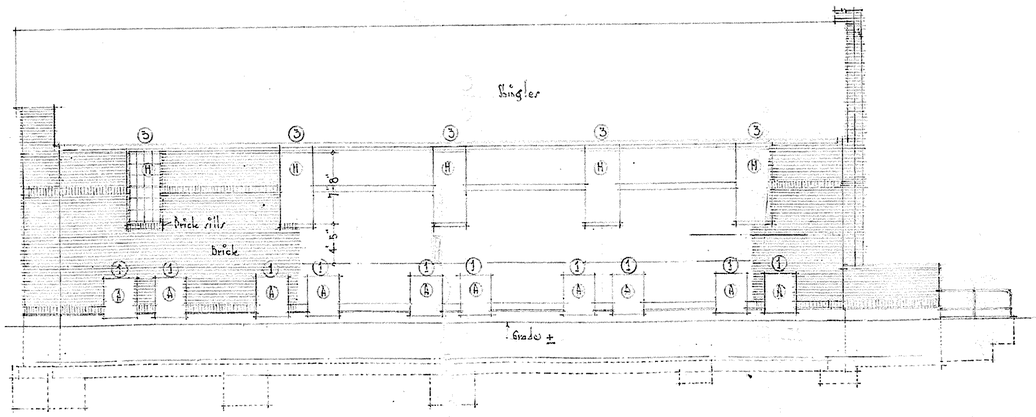
Total ground area covered by bldg. exclusive of outside steps	6650	sq. ft.
Total gross area of upper floor	6435	" "
Total " "	13085	" "
Net area of Basement space	5110	Sq. ft.
" " " 2nd Floor " " [Includes proj. booth]	6000	" "
Total net area of both floors	11110	" "
Total gross cubeage	185000	Cu. Ft.

SCALE 1/8" = 1'-0	FIRST FLOOR PLAN	JOB No 575	
DRAWN	MENAN WARD	DATE 3-23-36	
TRACED	L. D. S. CHURCH	FILE D 9	
CHECKED	MENAN IDAHO	REVISED	
	CANNON & FETZER, ARCHTS. SALT LAKE CITY UTAH		

2



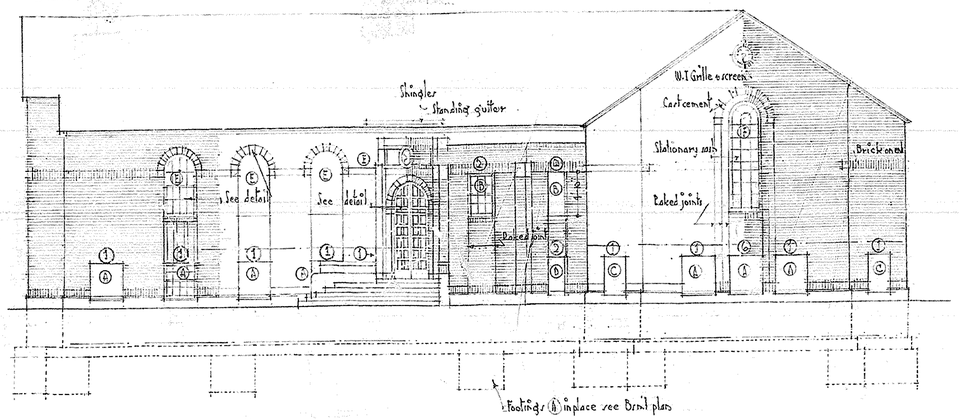
SOUTH ELEVA.



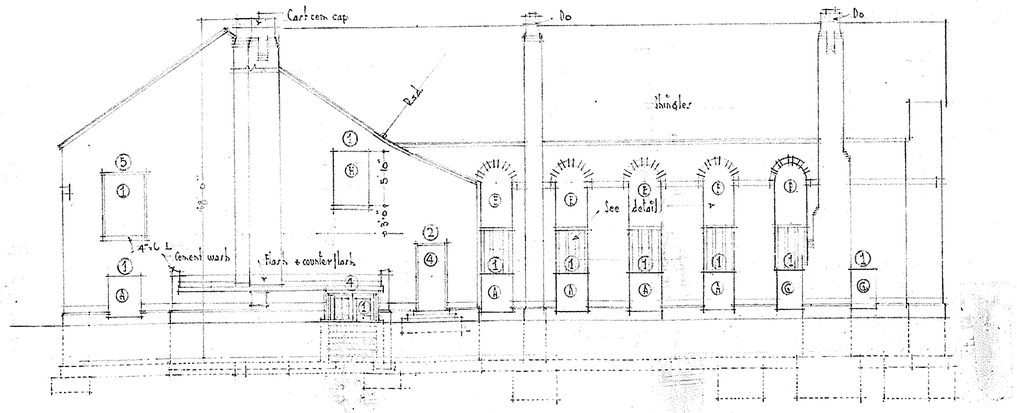
NORTH ELEVA.

SCALE 1/8" = 1'-0	ELEVATIONS	JOB No 575
DRAWN	MENAN WARD	DATE 3-23-36
TRACED	L. D. S. CHURCH	FILE
	MENAN IDAHO	D 9
CHECKED	CANNON & FETZER, ARCHTS. SALT LAKE CITY, UTAH	REVISED

3



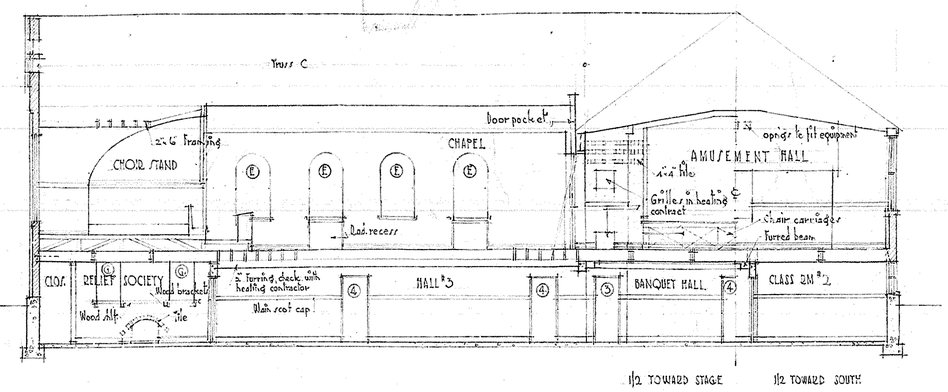
EAST ELEVA.



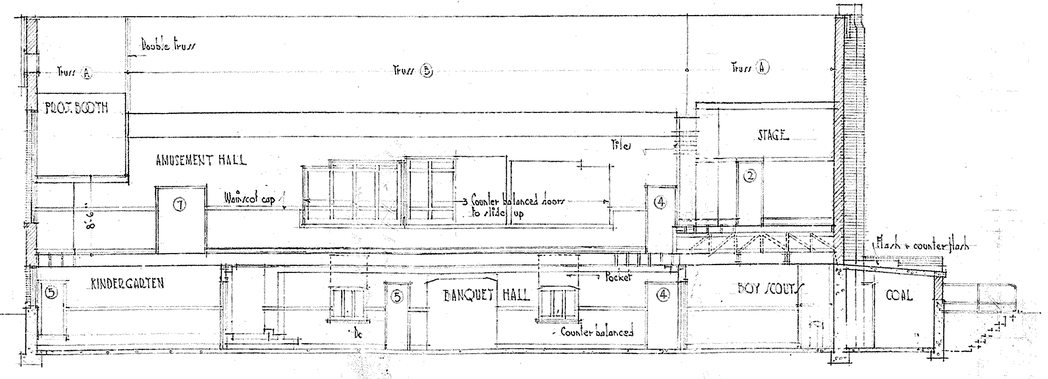
WEST ELEVA.

SCALE 1/8" = 1'-0"	ELLEVATIONS	JOB No 575
DRAWN	M.E.NAN WARD	DATE 5-25-46
TRACED	L. D. S. CHURCH	FILE D 2
CHECKED	MENAN IDAHO	REVISED
	CANNON & FEYZEL ARCHTS SALT LAKE CITY, UTAH	

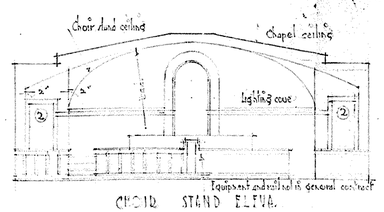
4
12



SECTION # 1



SECTION # 2.



CHOIR STAND ELEVA.

SCALE 1/8" = 1'-0	SECTIONS	JOB No 375
DRAWN	MENAN WARD	DATE 3-25-36
TRACED	L. D. S. CHURCH	FILE D 9
CHECKED	MENAN, IDAHO	REVISED
	CANNON & FETZER, ARCHTS. SALT LAKE CITY UTAH	

5

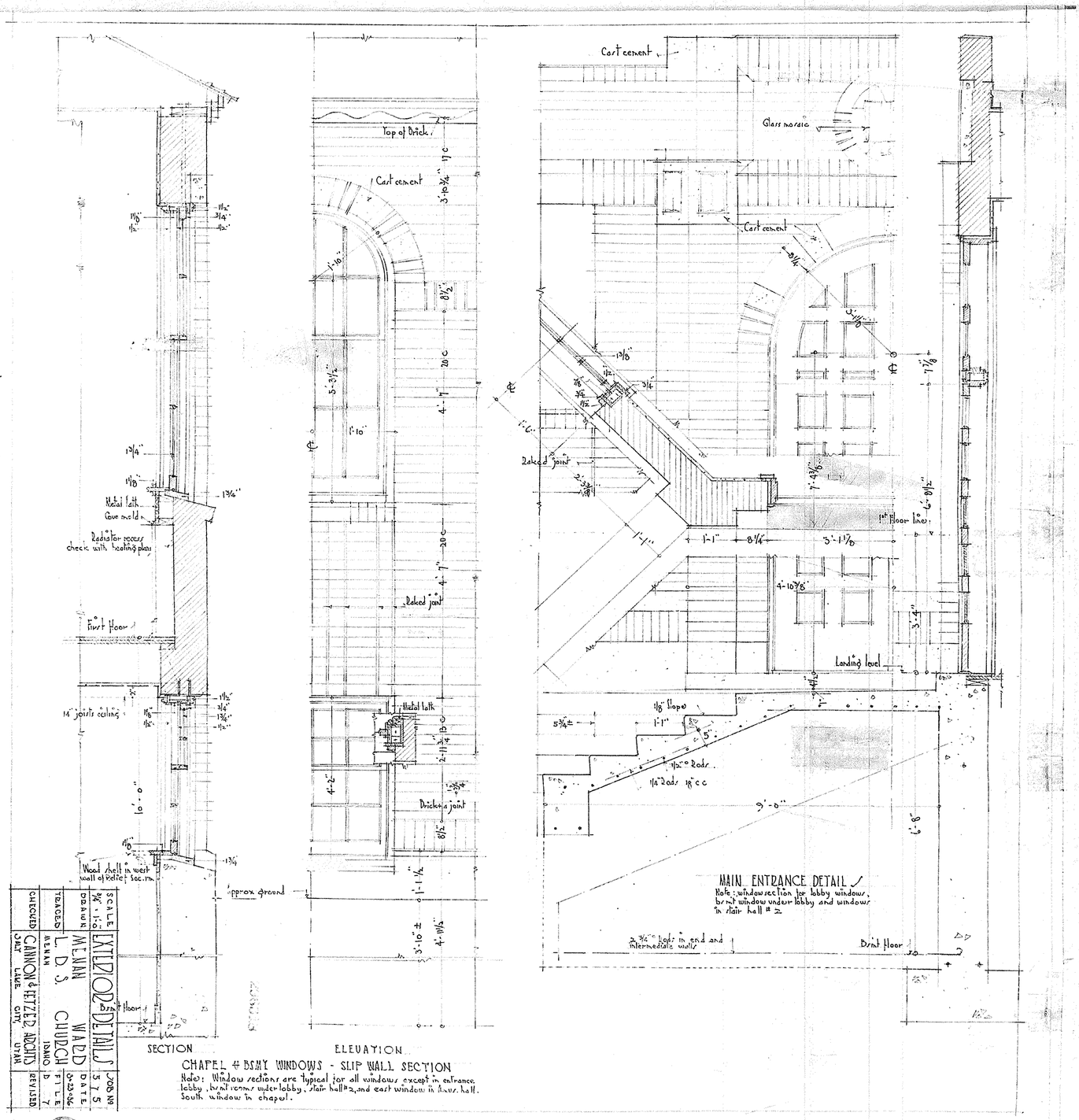
EAVES DETAIL

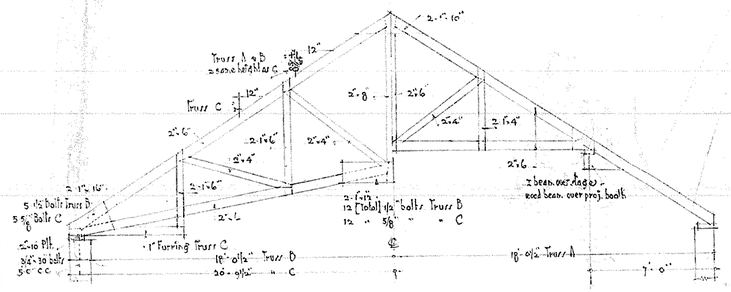
CHAPEL GABLE, SOUTH WINDOW IN CHAPEL & VENTS
Note: East window trace in hour hall similar

ELEVATION

SECTION

SCALE 1/4" = 1'-0"	EXTERIOR DETAILS	JOB NO. 575
DRAWN	MENAN WARD	DATE 3-23-36
TRACED	L. D. S. CHURCH MENAN IDAHO	FILE D 4
CHECKED	CANNON & FETZER, ARCHTS SALT LAKE CITY, UTAH	REVISED


Top of Brick
Cast cement
Metal lath
Cove mold
Radiator recess check with heating plans
First floor
14" joists ceiling
Wood shelf in west wall of Relig. Soc. rm.
Approx ground
Dashed joint
Bricks joint
Cast cement
Glass mosaic
Raked joint
1st Floor line
Landing level
1/8" Slope
11" Treads 10" c.c.
9'-0"
Drint Floor
SECTION
ELEVATION
MAIN ENTRANCE DETAIL
Note: window section for lobby windows, brint window under lobby and windows in stair hall # 2.
CHAPEL & BSMT WINDOWS - SLIP WALL SECTION
Note: Window sections are typical for all windows except in entrance lobby, brint rooms under lobby, stair hall #2, and east window in Assembly hall. South window in chapel.
CHICAGO
CANNON & FLETCHER ARCHTS.
LAKE CITY UTAH
DESIGN
DRAWN M.E.NAN
TRACED M.E.NAN
CHECKED L. D. J.
SCALE 3/4" = 1'-0"
WARD CHURCH
IDAHO
TITLE EXTERIOR DETAILS
DATE 5.7.5
JOB NO
SHEET NO A-7



1/2 TRUSS B & C

1/4" = 1'-0"

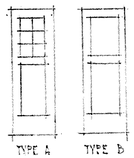
1/2 TRUSS A

NOTES. - ALL TRUSSES
All joists to be well spiked
Spacing 2'-0 c-c
Strap with 1"x2" furring 16" c-c

FINISH SCHEDULE

No	FLOOR	BASE	WALL	CEILING	WAIN./WAINSCOT	WAINSCOT CAP	WOOD TRIM
1	Cement	—	—	—	—	—	Pine
2	" "	—	—	Cement plaster	—	—	" "
3	" "	Cement	Hardwall plaster	Hardwall Plaster	Keenes cem. plaster	Wood	V.G Fir
4	" "	" "	" "	" "	" "	" "	Pine
5	" "	" "	Cement plaster	Cement plaster	—	—	" "
6	" "	" "	Hardwall plaster	Hardwall plaster	Textured plaster	Wood	V.G Fir
7	" "	" "	" "	" "	Keenes cem. plaster	" "	Pine
8	" "	—	Cement plaster	Cement plaster	—	—	" "
9	Maple	V.G. Fir	Hardwall plaster	Hardwall plaster	Cement plaster	Wood	V.G Fir
10	" "	" "	" "	Acoustic plaster	Keenes cem. plaster	" "	" "
11	V.G Fir	" "	Textured plaster	" "	—	—	" "
12	Oak	Oak	Hardwall plaster	Hardwall plaster	Textured plaster	Wood	Oak
13	Maple	V.G. Fir	" "	" "	Keenes cem. plaster	" "	V.G Fir
14	" "	" "	" "	" "	Textured plaster	" "	" "
15	V.G Fir	" "	" "	" "	—	—	" "
16	Cement	—	Cement plaster	Cement plaster	—	—	—

Flr. # 12 includes Astro to Stair hall # 1

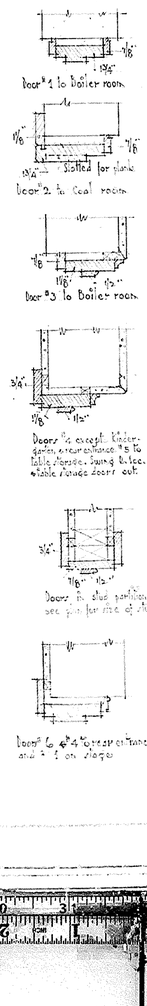


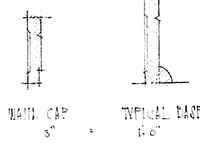
DOOR SCHEDULE

No	TYPE	SIZE	NOTE
1	A	2-4 × 6'-8" × 1 3/4"	All exterior doors solid
2	B	2'-10" × 6'-8" × 1 3/8"	Door to coal room to have flatted iron curb at plank course
3	B	2'-10" × 6'-8" × 1 3/4"	Metal louvered. Built in 6 jamb on boiler room side
4	A	2'-8" × 6'-8" × 1 3/4"	All double doors to have astragal
5	B	2'-6" × 6'-8" × 1 3/8"	
6	C	2'-10" × 6'-8" × 1 3/4	See entrance detail
7	C	2'-8" × 6'-8" × 1 3/4"	

3 1/2 ft of metal grille in doors # 2 at Chair stand.
Metal doors to women's toilet stalls. 2'-6" x 4'-6" x 1/8 panel door to meet stall
Use 3/4" corrugated brass threshold under doors # 6-7 & # 4 to rear entrance

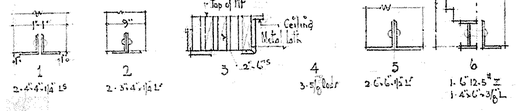
DOOR JAMB & TRIM SCHEDULE 1 1/2" = 1'-0"





LINTEL SCHEDULE

Note: Standard connection for beam & lintel # 6
Min. bearing 4" each side
Lintel # 5 over doors # 7 Lintel # 5 over # 6 to knee-wall & attic stage



WINDOW SCHEDULE

Note; Windows with same symbol are same size & type - see detail
Wainscot cap to form window apron in Vestibules

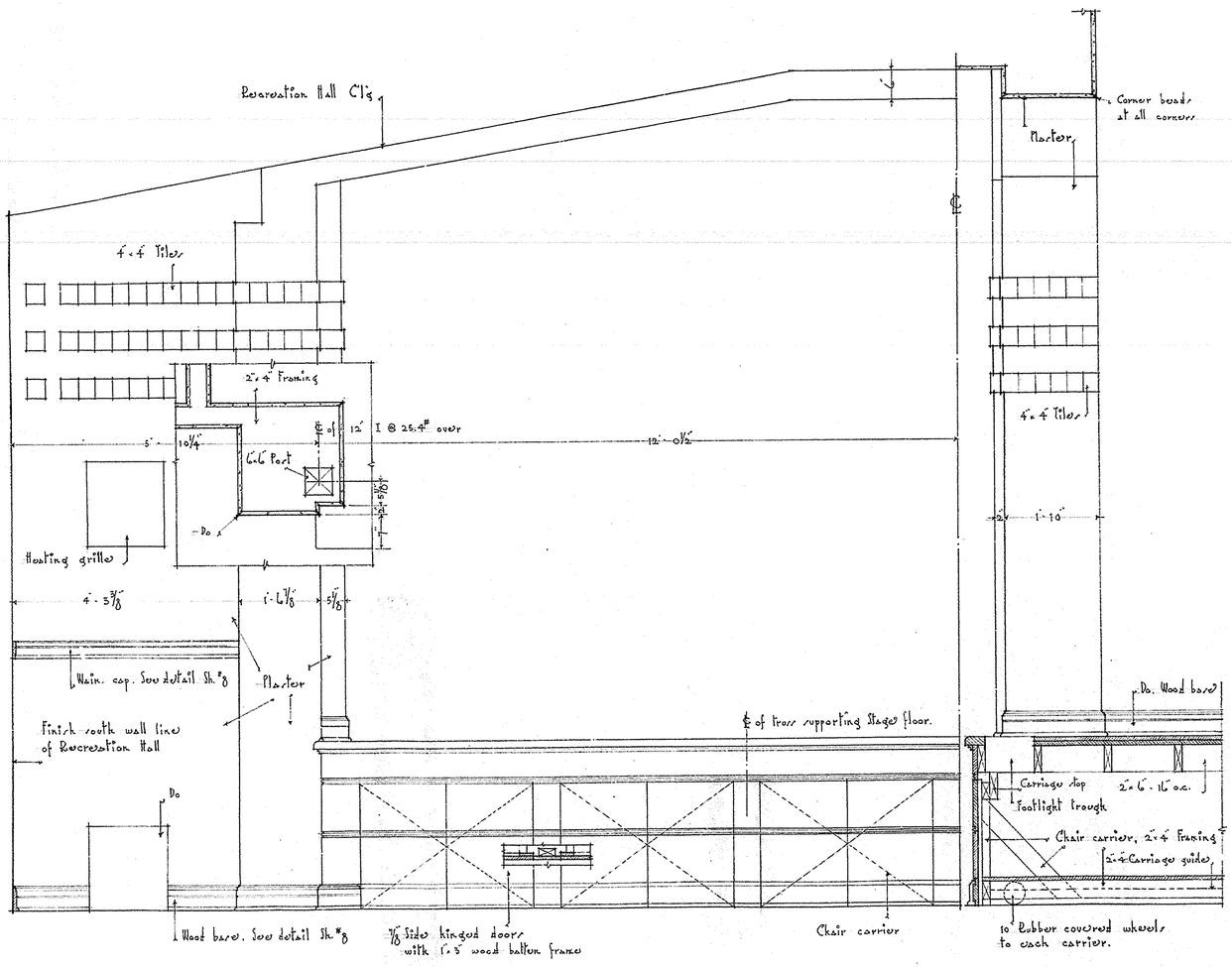
GLASS SCHEDULE

Opalescent glass ..... Chapel, Bishops office, Library, Vestibule & East window in basement Hall.

Figured glass ..... All doors & windows except where opalescent glass is specified

SCALE	NOTED	SCHEDULES & DETAILS	JOB NO 575
DESIGN		MENAN WARD CHURCH	DATE 8-25-50
TRACED		L. D. S. MENAN IDAHO	FILE 5 2
CHECKED		CANNON & FENNELL ARCHITECTS SALT LAKE CITY UTAH	REVISED

8



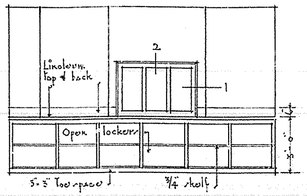
½ ELEVATION
¾" = 1'-0"

SECTION
¾" = 1'-0"

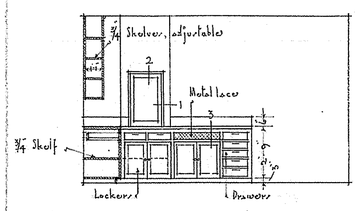
NOTE: Contractor shall verify all dimensions at site.
Contractor shall check present construction and notify Arch't of any changes.

SCALE ¾" = 1'-0"	PROSCENIUM ARCH	JOB No. 515
DRAWN E. F. M.	MENAN WARD L. D. S. CHURCH	DATE 1-21-39
TRACED E. F. M.	MENAN IDAHO	TILE D 9
CHECKED J. L. M.	CANNON & FETZER ARCH'TS SALT LAKE CITY UTAH	REVISED

9

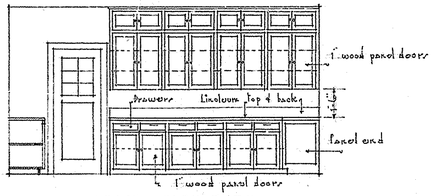


NORTH ELEVATION
1/4" = 1'-0"

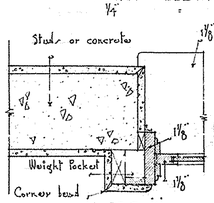


SOUTH ELEVATION
1/4" = 1'-0"

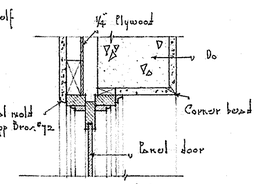
Dims originally specified, are to be eliminated.



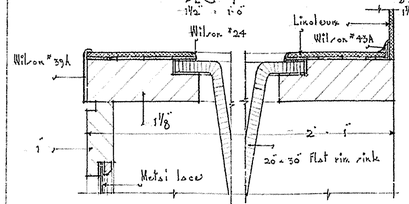
EAST ELEVATION
1/4" = 1'-0"



SEC. 1
1 1/2" = 1'-0"

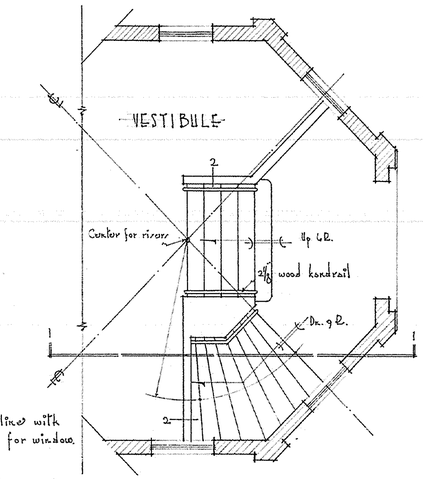


SEC. 2
1 1/2" = 1'-0"



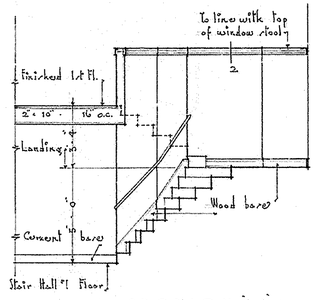
SEC. 3
6" = 1'-0"

KITCHEN DETAILS



PLAN
1/4" = 1'-0"

SEC. 2
3" = 1'-0"

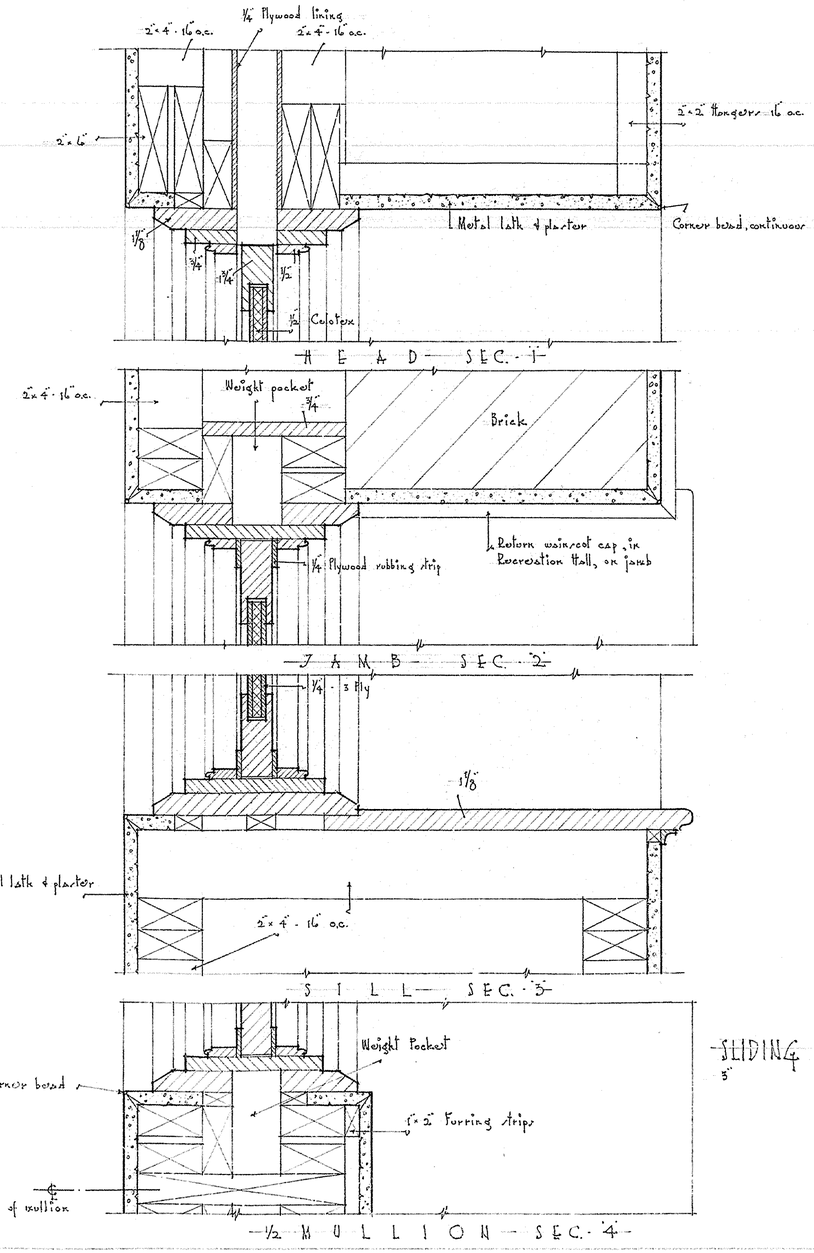


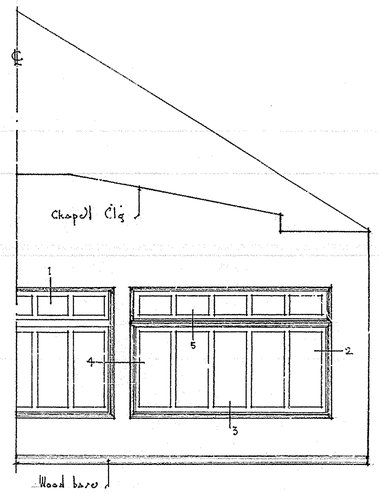
SECTION 1-1
1/4" = 1'-0"

MAIN STAIR DETAIL

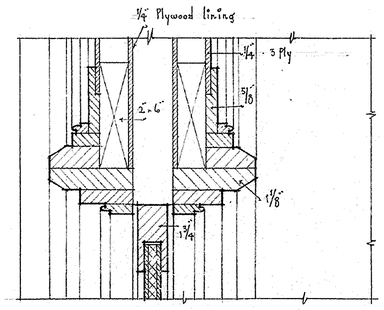
SCALE NOTED	DETAILS	JOB NO 575
DRAWN R. F. M.	MENAN WARD L. D. S. CHURCH	DATE 8-1-39
TRACED R. F. M.	MENAN IDAHO	FILE D-9
CHECKED F. L. M.	CANNON & FETZER, ARCHTS. SALT LAKE CITY, UTAH	REVISED

10





½ NORTH ELEVATION OF CHAPEL
¼ 1'-0"

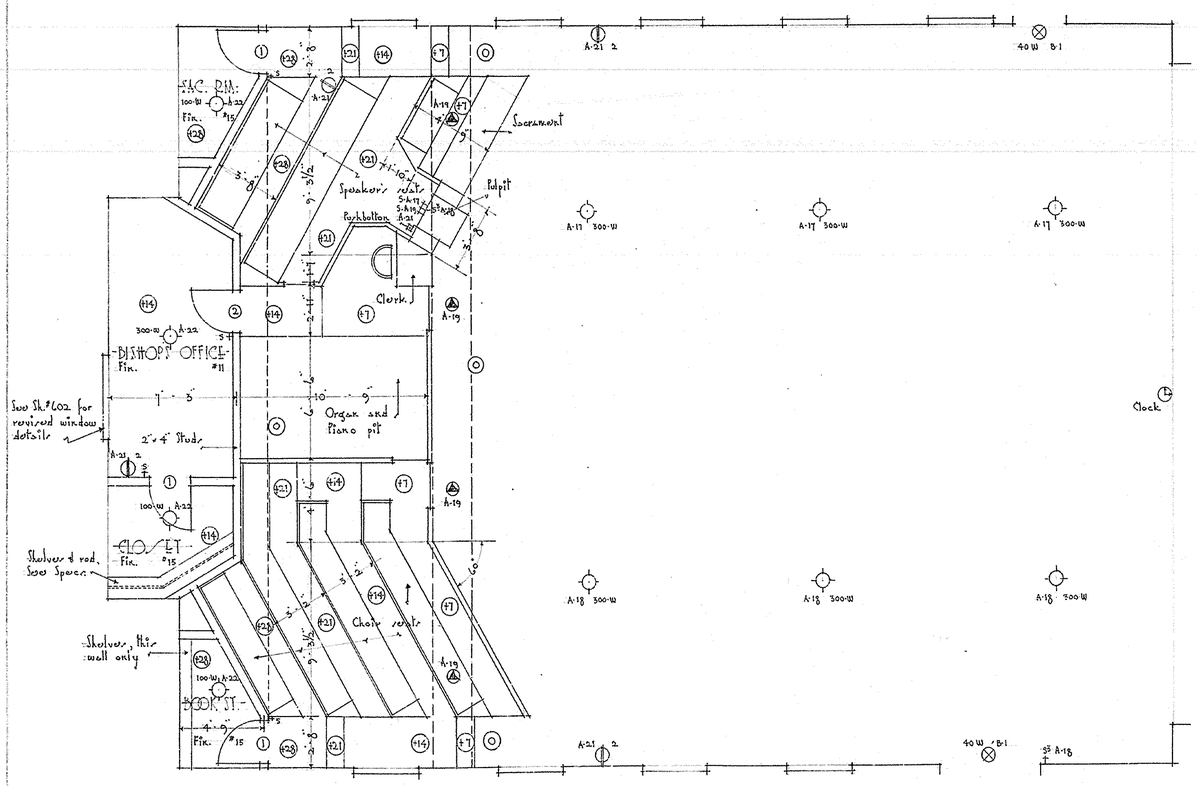


TRANSOM BAR SEC. 5

SLIDING DOOR DETAILS
3" 1'-0"

SCALE NOTED	INTERIOR DETAILS	JOB NO 575
DRAWN E. F. M.	MENAN WARD L. D. S. CHURCH	DATE 3-3-39
TRACED E. F. M.	MENAN IDAHO	FILE D-9
CHECKED J. L. M.	CANNON & FETZER ARCHTS SALT LAKE CITY, UTAH	REVISED

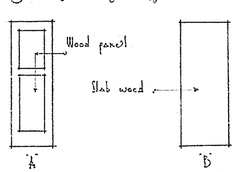
11



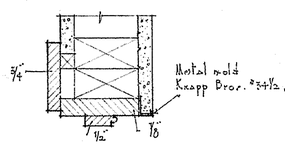
Eliminate circuit A-20.

NOTES: All dimensions are to rough.
Contractor shall verify all dimensions at site.
Seats, pulpit, sacrament, etc., not in this contract.
Rooms shown on this plan are to be wired exactly as shown, disregarding original layout.

① 2'-4" · 6'-8" · 1 3/8" - Type "A"
② 2'-8" · 6'-8" · 1 3/8" - " "B"



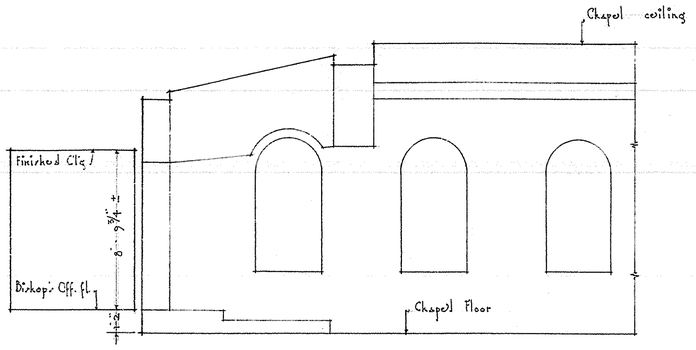
This door schedule shall supersede original door schedule.



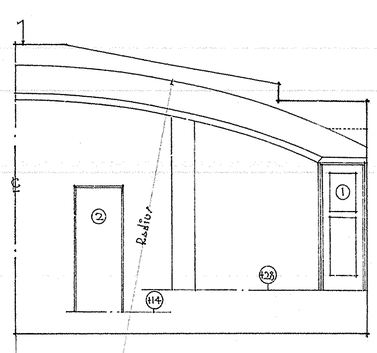
DOOR JAMB - DOORS #1 & 2

SCALE ¼" = 1'-0"	CHAPEL SEATING PLAN	JOB No. 515
DRAWN R. F. M.	MENAN WARD	DATE 7-27-39
TRACED R. F. M.	L. D. S. CHURCH MENAN IDAHO	FILE D 5
CHECKED J. L. M.	CANNON & FETZER ARCHTS. SALT LAKE CITY, UTAH.	REVISED

(601)

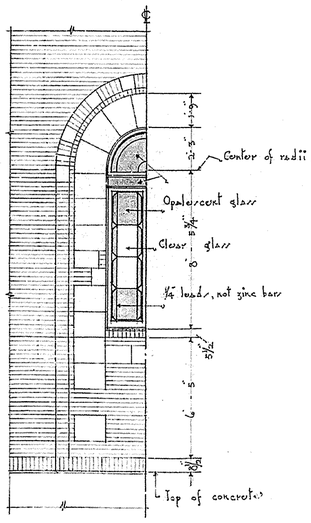


LONGITUDINAL SECTION AT ℄
¼" 1'-0"

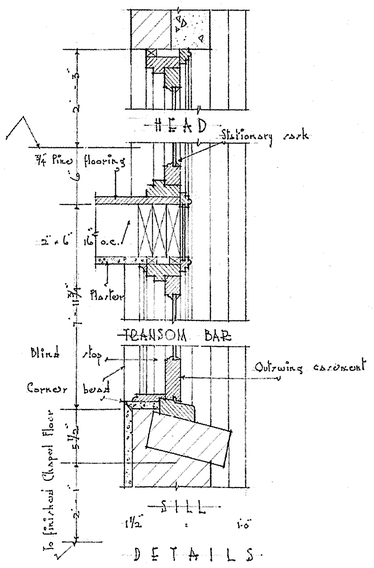


½ ELEVATION
¼" 1'-0"

NOTES: Contractor shall verify all dimensions at site.
See Sht #601 for Rostrum floor levels.



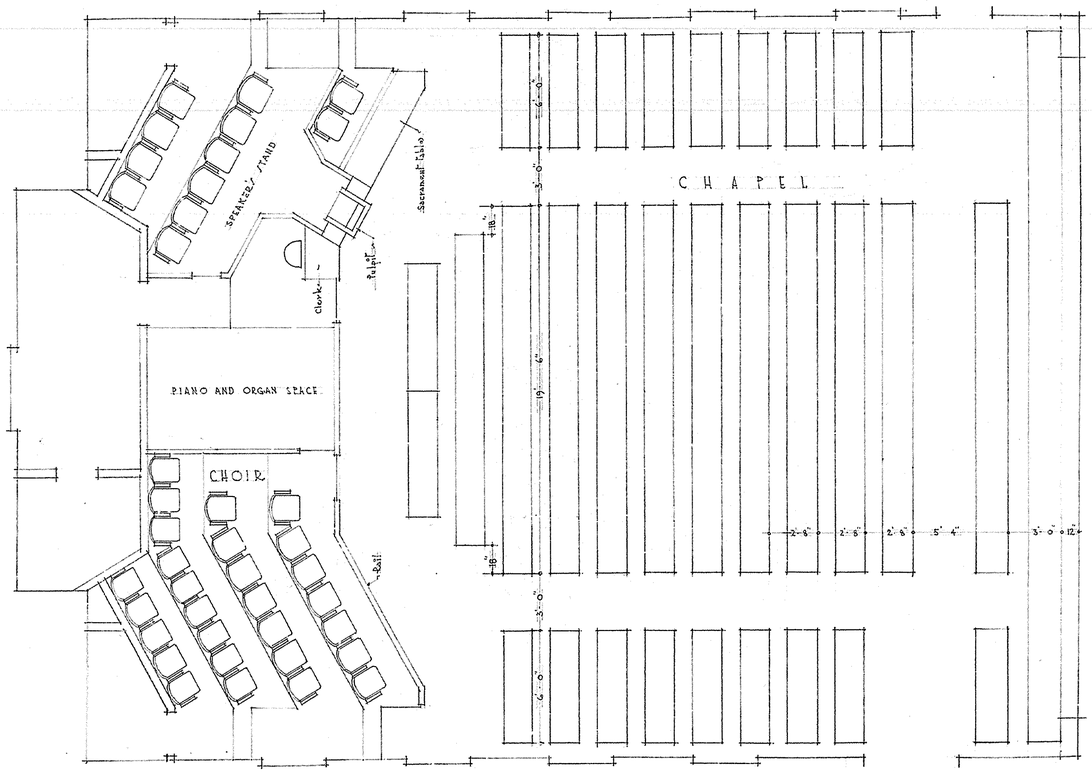
½ ELEVATION OF WINDOW IN SOUTH GABLE OF CHAPEL
¼" 1'-0"



DETAILS

SCALE ¼" = 1'-0"	REVISIONS	JOB No 575
DRAWN R. F. M.	MENAN WARD L. D. S. CHURCH	DATE 1-27-39
TRACED R. F. M.	MENAN IDAHO	FILE D-9
CHECKED J. L. M.	CANNON & FETZER ARCHTS SALT LAKE CITY, UTAH	REVISED

602



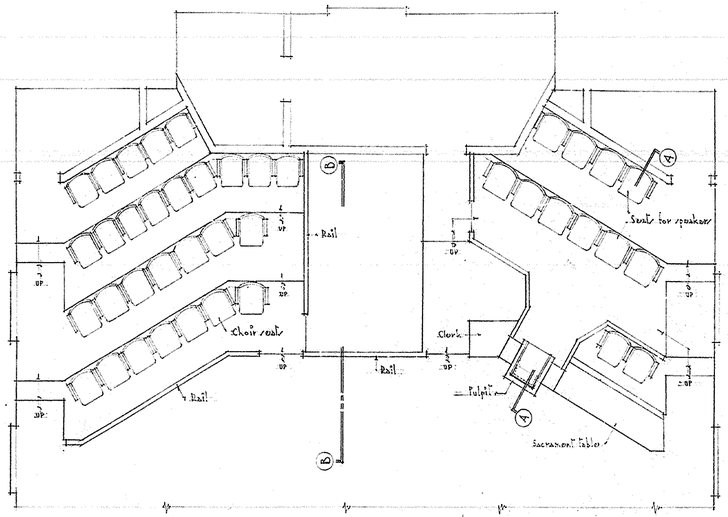
P L A N

NOTES:

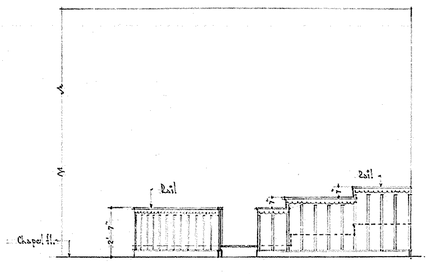
Chapel	262	Seats
Choir Etc.	41	"
Total seating	303	

SCALE 1/4" = 1'0"	CHAPEL SEATING PLAN	JOB 575
DRAWN R. F. M.	MENAN WARD	DATE 7-27-55
TRACED R. F. M.	L. D. S. CHURCH MENAN, IDAHO	FILE D - 9
CHECKED J. L. M.	CANNON & FETZER, ARCHTS. SALT LAKE CITY, UTAH	REVISED 12-7-55

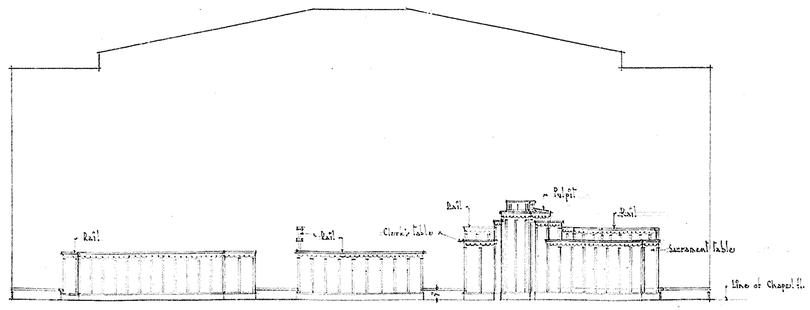
SCEA



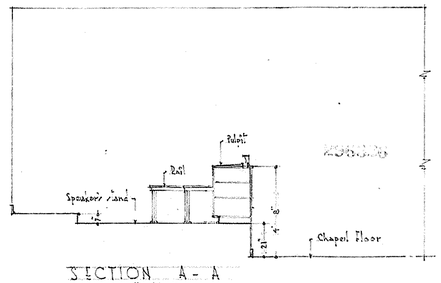
PLAN OF CHOIR STAND AND PULPIT ETC.
SCALE 1/4" = 1'-0"



SECTION B B
SCALE 1/4" = 1'-0"



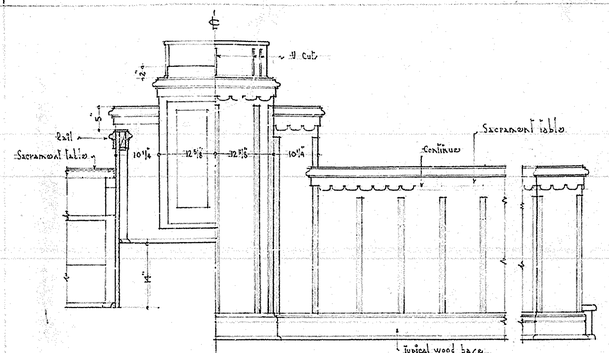
ELEVA. OF CHOIR RAIL AND PULPIT ETC.
SCALE 1/4" = 1'-0"



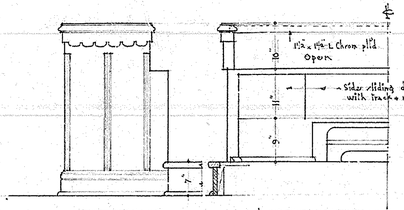
SECTION A - A
SCALE 1/4" = 1'-0"

SCALE 1/4"= 1'-0"	DETAIL	JOB 576
DRAWN	MENAN WARD L D S CHURCH	DATE 12-7-51
TRACED	MENAN IDAHO	FILE D- 9
CHECKED	CANNON & FETZER, ARCHTS SALT LAKE CITY, UTAH	REVISED

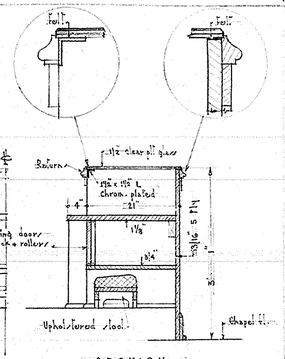
603A



½ REAR ELEVA. ½ FRONT ELEVA. ETC. FRONT COR. SAC. TABLE



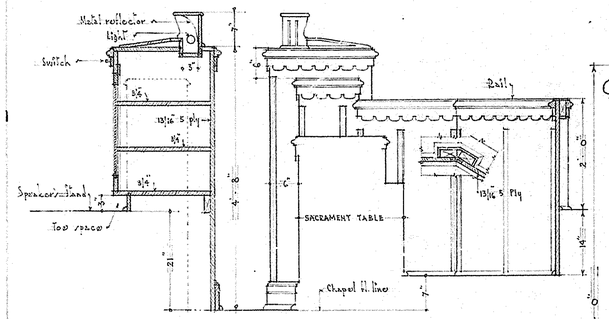
END ELEVA. ½ REAR ELEVA.



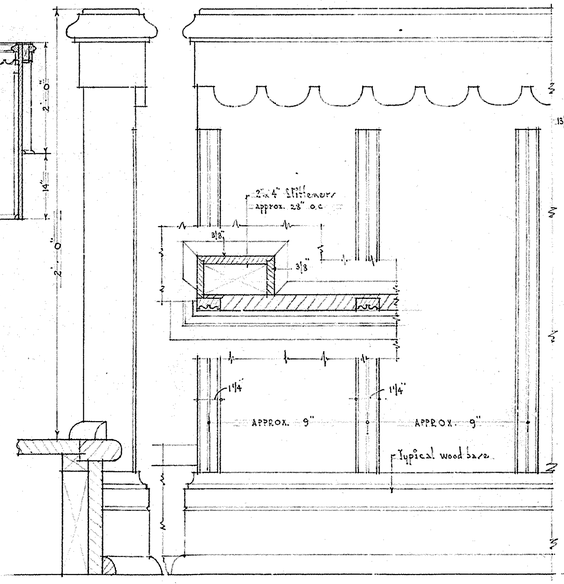
SECTION

SACRAMENT TABLE DETAILS

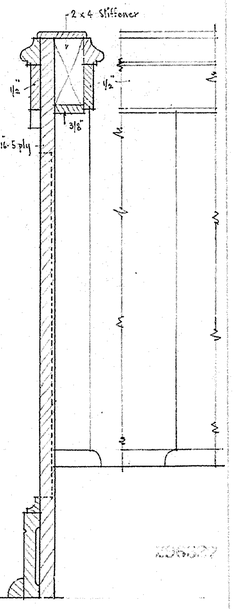
SCALE 3/4" = 1' - 0"



SECTION SIDE ELEVATION ETC.



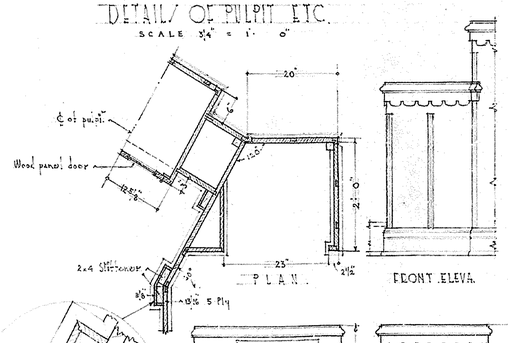
END PART FRONT ELEVA.



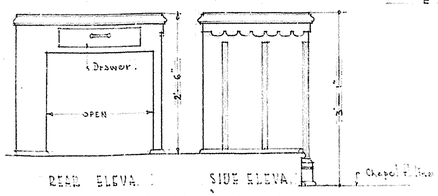
SECT. PART REAR ELEVA.

DETAILS OF PULPIT ETC.

SCALE 3/4" = 1' - 0"



PLAN FRONT ELEVA.



REAR ELEVA. SIDE ELEVA.

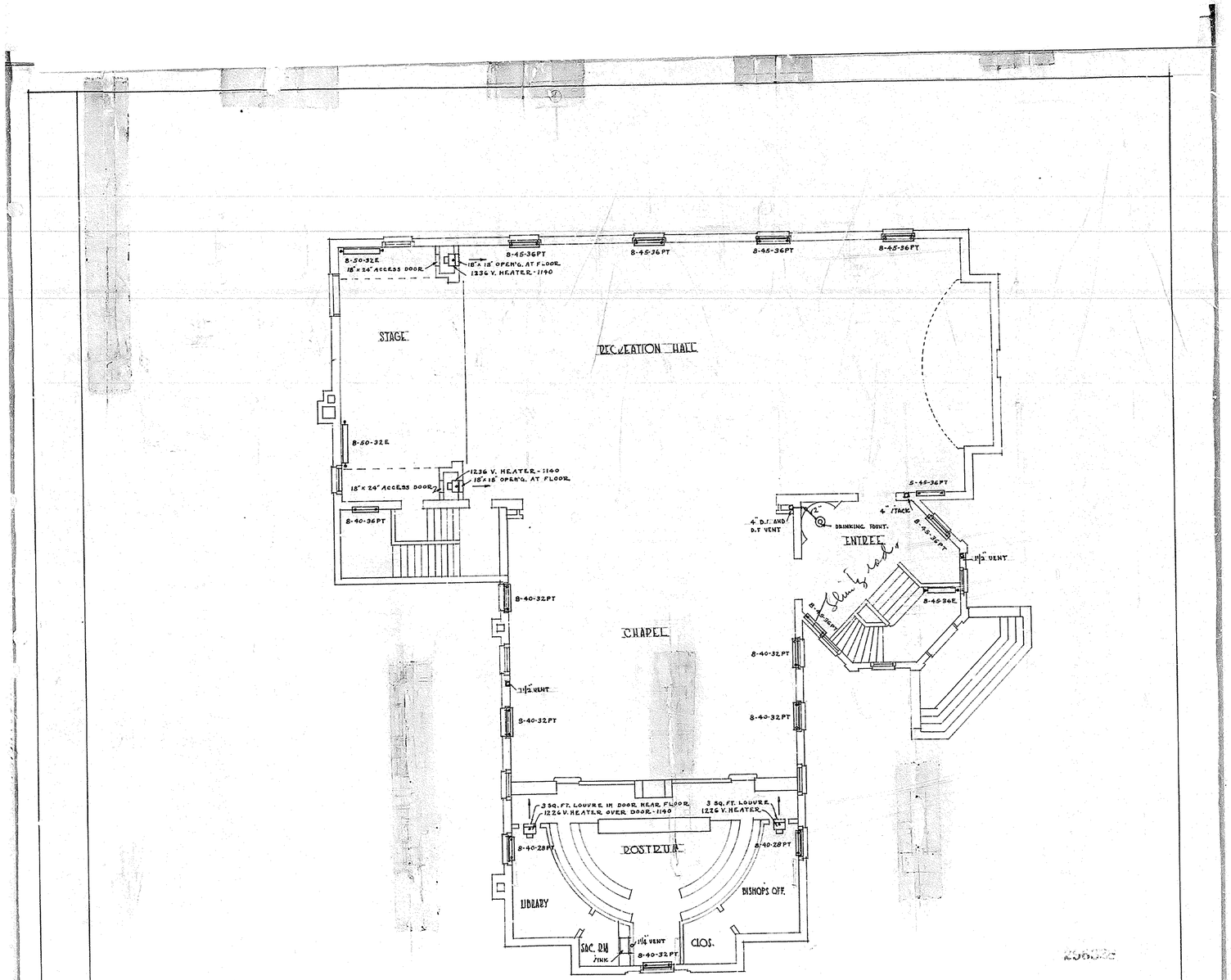
DETAILS OF CLERK'S TABLE

SCALE 3/4" = 1' - 0"

RAIL DETAILS

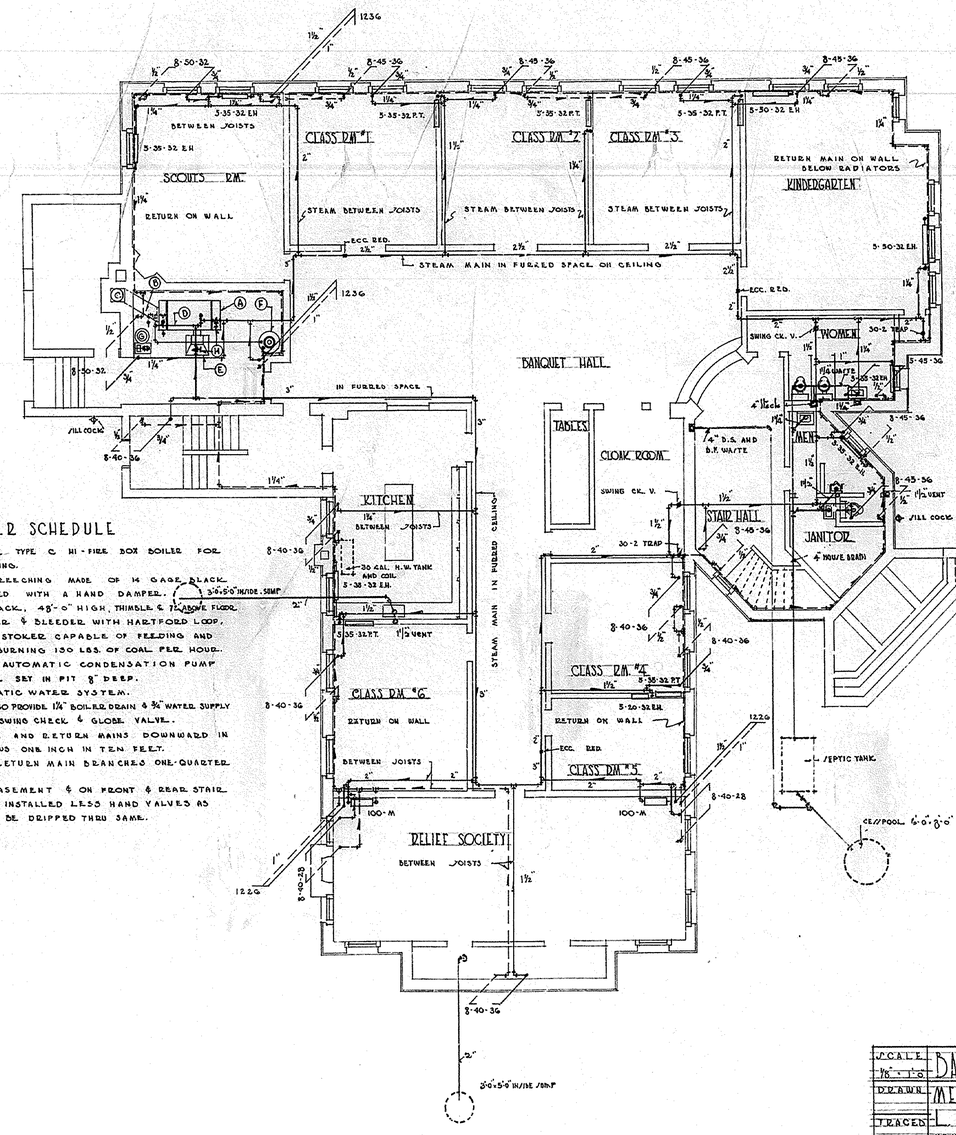
SCALE 3" = 1' - 0"

SCALE AS NOTED	PULPIT DETAILS ETC.		JOB E75
DRAWN	MEMAN	WARD	DATE 12-7-39
TRACED	L. D. S	CHURCH	FILE 603
	MEKAN	IDAHO D-9	
CHECKED	CANNON & FETZER ARCHTS		REVISED
	SALT LAKE CITY UTAH		



SCALE 1/8" - 1'-0	FIRST FLOOR PLAN	JOB No. 575
DRAWN	MENAN WARD	DATE 3-25-36
TRACED	L. D. S. CHURCH MENAN IDAHO	SHEET No. 9
CHECKED	CANNON & FELTER, ARCHTS. SALT LAKE CITY UTAH	REVISED

8-2-80-82



LETTER SCHEDULE

(A) NO 7L73 KEWANEE TYPE C HI-FIRE BOX BOILER FOR STOKER SETTING.

(B) 18" DIA. SMOKE BREECHING MADE OF 14 GAGE BLACK IRON & FITTED WITH A HAND DAMPER.

(C) 17" x 17" SMOKE STACK, 45'-0" HIGH, THIMBLE & FLASHING FLOOR.

(D) 5" BOILER HEADER & BLEEDER WITH HARTFORD LOOP.

(E) AUTOMATIC COAL STOKER CAPABLE OF FEEDING AND EFFICIENTLY BURNING 130 LBS. OF COAL PER HOUR.

(F) CV 420 DUNHAM AUTOMATIC CONDENSATION PUMP & RECEIVER SET IN PIT 8" DEEP.

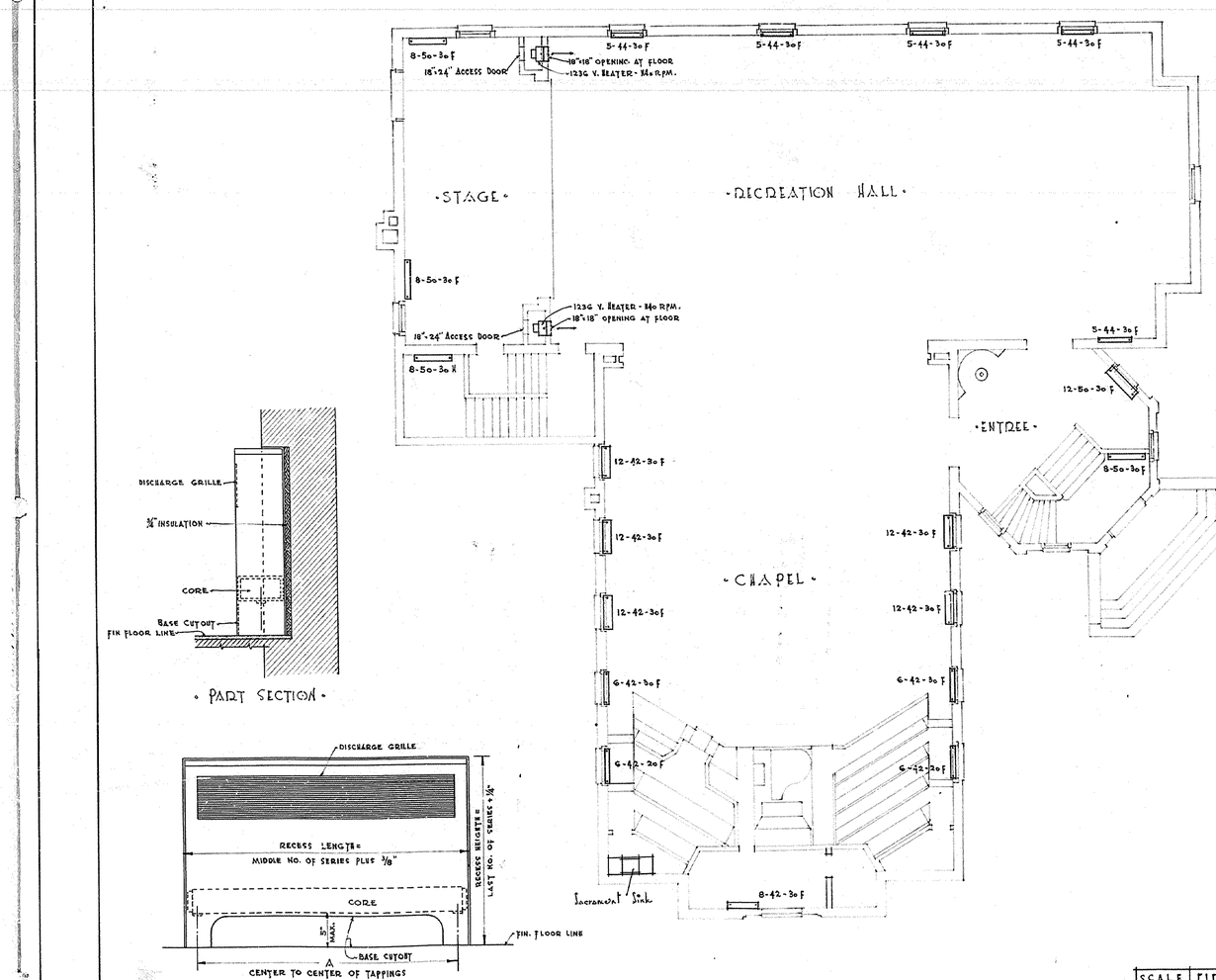
(G) KEWANEE PNEUMATIC WATER SYSTEM.

(H) GATE VALVE, ALSO PROVIDE 1¼" BOILER DRAIN & ¾" WATER SUPPLY LINE WITH ¾" SWING CHECK & GLOBE VALVE.

NOTE - GRADE STEAM AND RETURN MAINS DOWNWARD IN DIRECTION OF ARROWS ONE INCH IN TEN FEET.
GRADE STEAM & RETURN MAIN BRANCHES ONE-QUARTER INCH PER FOOT.
ALL RADIATORS IN BASEMENT & ON FRONT & REAR STAIR LANDINGS ARE TO BE INSTALLED LESS HAND VALVES AS STEAM LINES ARE TO BE DRIPPED THRU SAME.

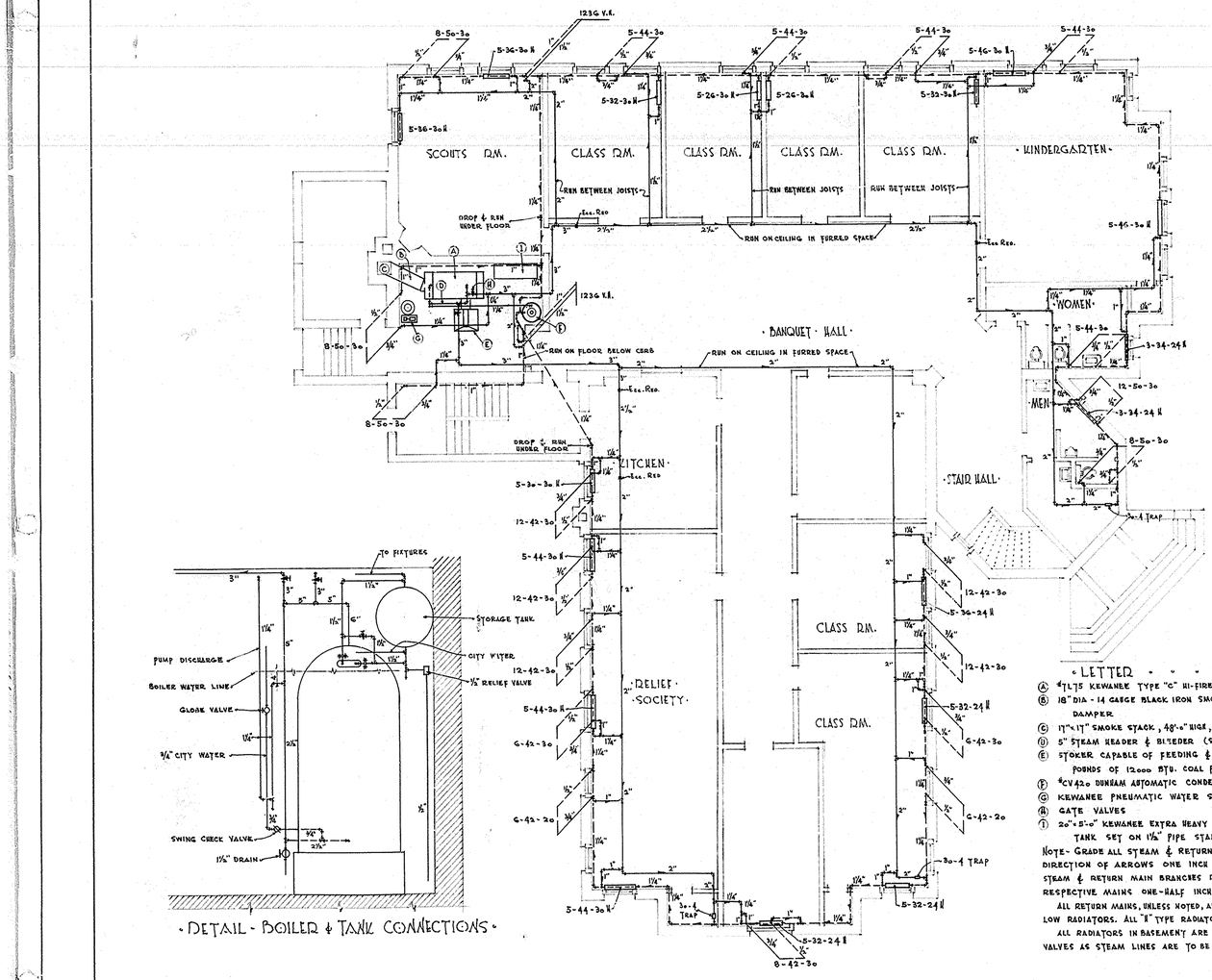
SCALE 1/8" = 1'-0"	BASEMENT PLAN	JOB NO. 375
DRAWN	MENAN WARD	DATE 5-23-36
TRACED	L.D.S. CHURCH	FILE
CHECKED	MENAN IDAHO	SHEET 3
	CANNON & FETZER ARCHTS SALT LAKE CITY UTAH	REVISED

3001



Scale 1/8" = 1'-0"	First Floor Plan	Job No 573
Drawn D.D.W.	Menan Ward L. D. S. Church	Date 3-23-39
Traced D.D.W.	Menan Idaho	File D 9
Checked E.V.C.	Cannon & Fetzer, Archts. Salt Lake City Utah	Revised 7-27-39

5024



- DETAIL - BOILER & TANK CONNECTIONS -

- LETTER - " - " - SCHEDULE -

- (A) 4'L.75 KEWANEE TYPE "C" HI-FIREBOX BOILER FOR STOKER
- (B) 18" DIA - 14 GAGE BLACK IRON SMOKE BREECHING WITH HAND DAMPER
- (C) 17"x17" SMOKE STACK, 48'-0" HIGH, THIMBLE & 72" ABOVE FLOOR
- (D) 5" STEAM HEADER & BLEEDER (SEE DETAIL)
- (E) STOKER CAPABLE OF FEEDING & EFFICIENTLY BURNING 130 POUNDS OF 12000 BTU. COAL PER HOUR
- (F) #CV420 DUNHAM AUTOMATIC CONDENSATION PUMP SET IN PIT.
- (G) KEWANEE PNEUMATIC WATER SYSTEM
- (H) GATE VALVES
- (I) 20"x5'-0" KEWANEE EXTRA HEAVY BLACK STEEL STORAGE TANK SET ON 1¼" PIPE STAND.

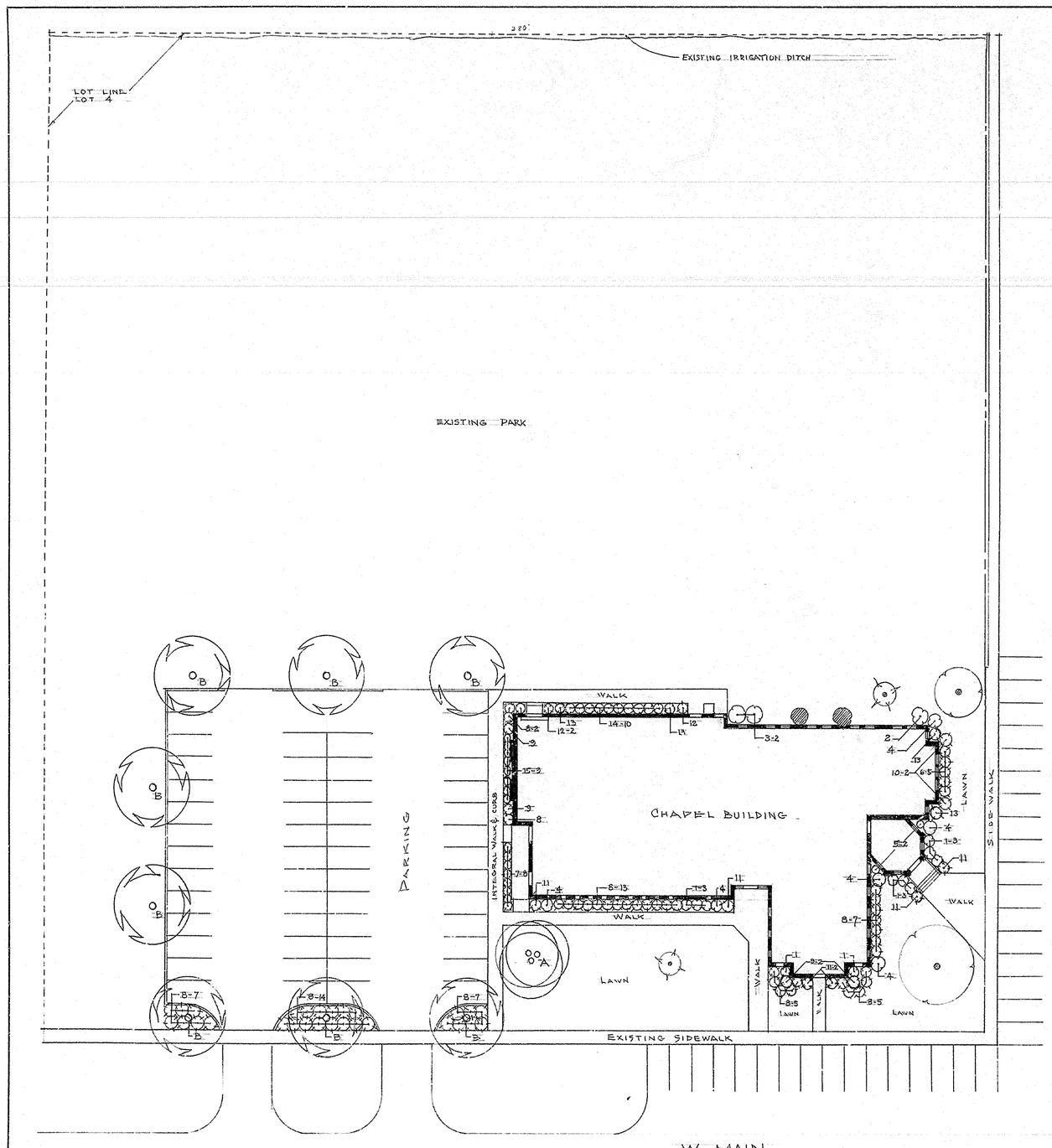
NOTE- GRADE ALL STEAM & RETURN MAINS DOWNWARD IN THE DIRECTION OF ARROWS ONE INCH IN TEN FEET. GRADE ALL STEAM & RETURN MAIN BRANCHES DOWNWARD TOWARD THEIR RESPECTIVE MAINS ONE-HALF INCH PER FOOT.

ALL RETURN MAINS, UNLESS NOTED, ARE TO BE RUN ON WALL BELOW RADIATORS. ALL "R" TYPE RADIATORS ARE TO BE HUNG ON WALL.

ALL RADIATORS IN BASEMENT ARE TO BE INSTALLED LESS HAND VALVES AS STEAM LINES ARE TO BE DRIPPED THRU. SAME.

SCALE 1/8" - 1'-0"	BASEMENT PLAN	JOB NO 575
DRAWN D.R.W.	MENAN WARD CHURCH	DATE 3-23-36
TRACED D.R.W.	L. D. S. IDAHO	FILE D 9
CHECKED E.V.C.	MENAN CANNON & FETZER. ARCHTS. SALT LAKE CITY, UTAH	REVISED 7-26-38

(D01A)



PLANT MATERIAL LIST

Key	Scientific Name	Common Name	Size	No. of Plants
	SHRUBS			
1	Berberis mentorensis	Mentor Barberry	18"-24"	6
2	Cornus mas	Cornelian Cherry	6'-8'	1
3	Cornus sibirica	Red Osier Dogwood	3'-4'	2
4	Euonymus alatus compa.	Compact Burningbush	5gal.	6
5	Euonymus emerald cushion	Em. Cushion Wintercreeper	5gal.	8
6	Juniperus chin. Armstrongi	Armstrong Juniper	5gal.	5
7	Juniperus hor. Sacharber	Bar Harbor Juniper	5gal.	8
8	Juniperus sab. Tamariscifolia	Tamarix Juniper	5gal.	61
9	Juniperus scop. Blue Haven	Blue Haven Juniper(B&B)	4'-5'	4
10	Picea glauca albertiana	Dwarf Alberti Spruce	3'-4'	2
11	Pinus mugo mughus	Dwarf Mugo Pine	5gal.	6
12	Taxus media hicksi	Hicks Yew	5gal.	3
13	Taxus repandens	Spreading Yew	5gal.	4
14	Symphoricarpos albus	Snowberry	2'-3'	10
15	Viburnum rhytidophyllum	Leatherleaf Viburnum	15"-24"	10
	TREES			
A	Betula pendula (clump)	European White Birch	6'-8'	1
B	Fraxinus pen. lanceolata	Marshall's Seedless Ash	1"-12"	8

LEGEND

○ = Deciduous Shrubs ◎ = Existing Trees (to Remain)
⊙ = Evergreen Shrubs
= Clump White Birch = Deciduous Trees

Approx. Lawn area 10,000 ☐'

269939
507-2638

DATE
REVISIONS
APPROVED

MENAN 1ST & 2ND WARDS
RIGBY STAKE

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
OFFICE OF THE BUILDING COMMITTEE
ARCHITECTURAL & ENGINEERING DEPARTMENT
120 NORTH MAIN STREET, SALT LAKE CITY, UTAH

DRAWN BY L.C.O. 7-10-79
CHECKED BY

SHEET TITLE
LANDSCAPE PLANTING PLAN
SCALE: 1" = 20'

C.A.D. NUMBER
DESIGNATE NUMBER
SHEET NO.

24X

EXISTING IRRIGATION DITCH

LOT LINE LOT 4

EXISTING PARK

NOTE: Install the New Domestic Well here.

Present Well

N. BROADWAY

W. MAIN

PLANT MATERIAL LIST

SPRINKLING SYSTEM NOTES

1. All pipe and fittings in this system shall be prime galvanized steel. (American Made)
2. Contractor shall grade all sprinkler lines to low points and install a minimum of Mueller H11007 brass drain cocks to insure and guarantee complete drainage of entire system. The Mueller brass drain cocks should be located as close as possible to valves. The Contractor shall provide an 18" x 18" drain sump for each drain cock, the top of which is six inches below finished grade. Drain cocks shall be enclosed in a 1 1/2" pipe sleeve. Where a manual drain valve is not practical, use Thompson #442 automatic drain valve.
3. All valves should be located as close as possible to sidewalk.
4. Sprinkler lines for building perimeter are to be located six inches from the foundation wall with the sprinkler heads at ground level.
5. This system was designed for 40# P.S.I. static pressure.
6. Enclose all valves in 2" diameter pipe sleeves.
7. This drawing is a schematic only, and is intended to convey the idea of full coverage of the sprinkler system. The Contractor shall make any adjustments necessary to provide complete coverage of all areas at no additional cost to the Owner.

SPRINKLING LEGEND

SYMBOL	DESCRIPTION
X	Model: 171F Rainbird full-circle pop-up sprinkler head or approved equal. 4.0 G.P.M. 12 1/2' radius.
V	Model: 171H Rainbird half-circle pop-up sprinkler head or approved equal. 2.0 G.P.M. 12 1/2' radius.
	Model: 171Q Rainbird quarter-circle pop-up sprinkler head or approved equal. 1.2 G.P.M. 12 1/2' radius.
	Model: 2200F Rainbird full-circle flower bubbler or approved equal. 1.5 G.P.M. 8' diameter
	Model: 2200H Rainbird half-circle flower bubbler or approved equal. 1.1 G.P.M. 4' radius.
	No. 440 Thompson 3/4" brass angle valve or approved equal.
	No. 440 Thompson 1" brass angle valve or approved equal.
	No. 440 Thompson 1 1/4" brass angle valve or approved equal.
	No. 440 Thompson 1 1/2" brass angle valve or approved equal.
	No. 440 Thompson 2" brass angle valve or approved equal.
	No. J227 Minnesota pattern ( ) James Jones service pipe curb stop or approved equal.

DATE

REVISIONS

APPROVED

MENAN WARDS 1ST & 2ND
RIGBY STAKE

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
OFFICE OF THE BUILDING COMMITTEE
ARCHITECTURAL & ENGINEERING DEPARTMENT
120 NORTH MAIN STREET
SALT LAKE CITY, UTAH

DRAWN BY: L. C.D.
CHECKED BY:

SHEET TITLE: SPRINKLER SYSTEM PLAN

SCALE: 1"=20'

C.A.D. NUMBER

PROJECT NUMBER

SHEET NO.

25ST-69
507-208

24X

****
* STAKE: MENAN ID PROPERTY #: 507-2638 *
----
* MENAN 1, 2 *
* 205 N BROADWAY *
* MENAN, IDAHO
****

DATE ENTERED IN COMPUTER: 08/15/88
(MARK IN RED)

V FOR TILE MASTIC
GET PAM APPROVAL

	PF-19 / AC-21 & INVOICES . . . . .
A	FINAL REPORT . . . . .
S	
B	
E	CONSULTANT'S ARGREEMENT AND . . . INSURANCE CERTIFICATE
S	
T	CONTRACTOR'S INSURANCE CERT.. . .
O	
S	
	CONTRACTOR'S BONDS . . . . .
A	CONTRACTOR'S CONTRACT. . . . .
B	
A	
	BID TABULATION . . . . .
T	
E	
M	ABATEMENT SPECIFICATIONS . . . . .
E	
N	
	SURVEY AND ASSESSMENT. . . . .
T	
	MISCELLANEOUS . . . . .

507 2638
MENAN 1 2
205 N BROADWAY
MENAN JEFFERSON IDAHO
Stake/miss MENAN ID

Sq Ft 17 112 Teaching Stations 22
Meetinghouse type 1 MEETINGHOUSE
Completed ??/37 Addition Comp 08/71

Region 2 APFR# 2205 Alan Palmer

****

PLANS SECTION

Do we have a plan? Source of plan Condition of plan
Have we made and distributed reduced copies

****

SURVEY SECTION

Survey Consultant Snake River Associates Is this a survey of all the building friable and non friable? yes
Name of Surveyor Jim Farely If no explain

Survey NTP 11/11/11 Survey Received 10/20/87 Number of Samples Taken? 8 ACM Found? yes
Date of Survey 10/10/87 Date Reviewed 08/15/88

	DESCRIPTION OF ABSBESTOS FOUND	FRIABLE?	TO REMOVE?	WAS REMOVED?
1	BOILER ROOM 67 FITTINGS 3 SFT DUCT CLOTH	Y	Y	Y
2	NORTHEAST RM 360 SFT FLOOR TILE (2 3%)	N	Y	Y
3	TUNNEL 53 JOINTS	Y	Y	Y
4	BASEMENT ROOMS 8' AIRCELL PIPE INSULATION	Y	Y	Y
5	SOUTHEAST ROOM 7 FITTINGS	Y	Y	Y
6	CLERK S OFFICE 120 SFT LINOLEUM	Y	Y	Y
7	UPPER FAN RM (SEE FINAL REPORT PG 2) 33 FITTINGS	Y	Y	Y
8				
9				
10				
11				
12				
13				

****

PF 19 BUDGET FORM

PF 19# 051846
AC 21# 507 2638 75

SLC Code

CONSULTANT'S BUDGET		CONTRACTOR'S BUDGET	
SURVEY COST	779 00	CONTRACTOR COSTS	7 871 00
BID PREP COST		CONTRACTOR CO #1	
PROJECT SUPERVISION	1 652 00	CONTRACTOR CO #2	
FINAL REPORT		CONTRACTOR CO #3	
CONSULTANT CO #1			
CONSULTANT CO #2			
CONSULTANT CO #3			
TOTAL CONSULTANT	2 431 00	TOTAL CONSTRUCTION COSTS	7 871 00

CONSULTANTS' EST TO TOTAL PROJECT COSTS 10 302 00

****

BID AND SPECIFICATION SECTION

Project Consultant Snake River Associates
Name of Bid Specs
Abatement Contractor WATERS INSULATION & SUP
Project Grouping Code

Prep Bid Doc NTP 11/11/11
Pre Bid Mtg Date
Bid Awarded 12/10/87
Projected Start 10/07/88
Projected Finish 10/10/88

****

FILE STORAGE SECTION

Contractors Contract Executed Checked and in file 08/15/88
Contractors Insur Certificates & Bonds Checked and in file
Consultants Contract & Insur Certificate Checked and in file 08/15/88
Project Manual (Abatement Documents and Spec) in file

Has all ACM in survey been removed? yes Has "Removed?" column in Survey Section been updated? yes

Final Report Received 12/08/87 Checked against checklist Did it Pass

****

SURVEY	SPECS	CONTRACT	BONDS & INSUR CERT	CONSULTANT CONT	FINAL REPORT
10/20/87		08/15/88		08/15/88	12/08/87

THE CHURCH of JESUS CHRIST of LATTER-DAY SAINTS

REQUEST TO THE APPROPRIATIONS COMMITTEE
BUILDING PROJECT REVIEW FORM U S A

Request For		Project Number		Page Number
CONSTRUCTION BUDGET	FN	507-2638-/5	1	EC - 2

Present Facilities Are OWNED	If Owned Present Facilities Are To Be ADDED TO	Date 07/21/87
MENAN 1 & 2 WARDS	MENAN IDAHO STAKE	MAIN STREET

City	County	State/Country	Membership	Meeting Attendance	5 Year Plan On File
MENAN		IDAHO	378/360	159/231	YES

Stake/Mission President LYLE DEAN TAYLOR — Address RT 1, BOX 108 WEST RIGBY ID 83442

Type of Project A&R VESTIBULES, REMODEL INTERIOR (SP-2240)

Square Footage Original Bldg 17112 New 1200 Total S F 18312 Assembly Seating 350 Teaching Areas 22

Architect DIXSON-WATSON ASSOCIATES, INC — Contractor O K CONSTRUCTION — No of Bidders 6(6)

TOTAL PROJECT COSTING

	Local Estimated	Local Actual	U S Actual
Base Bid	90,368		459,449
On Site Impr	32,825		
Off Site Impr			
Furnishings	15,000		15,000
Landscaping	17,250		
Repairs/Repl	373,495		
ASBESTOS	30,000		30,000
Landscape Arch	1,600		1,600
Ens /Cons Fee	10,317		10,317
Architects Fee	39,400		41,400
TOT PROJ COST	610,525		557,766

NON-STRUCTURE ITEMS INCL IN TOTAL PROJ COST

	Local Estimated	Local Actual	U S Actual
On Site Imprv	32,825		25,216
Off Site Impr			
Furnish by Own	15,000		15,000
Landscaping	17,250		14,011
Repairs/Repl	373,495		333,100
ASBESTOS	30,000		30,000
Landscape Arch	1,600		1,600
Ens /Cons Fee	10,317		10,317
Architects Fee	39,400		41,400
TOT NON-STRUCT	519,887		470,644

	Local Estimated	Local Actual	U S Actual
Tot Proj Cost	610,525		557,766
Non-Structure	519,887		470,644
Net Structure	90,638		87,122
Unit Cost - SF	1,200		1,200
Cost / SF	75 53		72 60
Liq Damages	$150/DAY		$150/DAY
Contract Days	~~150~~ 170		170 ~~150~~
R E Purch	Acres		
To Be Sold	Acres		
Site Cost	A&R Acres		
Local Use Fee	%		
Architects Fee	39,400		41,400
7 5 % Of $	527,977		

Total Cost Exc Site	557,766
Site A&R Acres Cost	
TOTAL COST INCL SITE	557,766
Site Use Fee Paid	
Donated Labor	
Local Share Deposited	24,542
Total	24,542

APPROVED

JUL 21 1987

APPROPRIATIONS COMMITTEE

Appropriations To Date	39,400
This Request	518,366
Project Cost	557,766
Contingency 10%	55,777
Total Proj + Cont	613,543
Church Share 96%	589,001
Local Share 4%	24,542

Allowable Contingency 10% Monetary 01 Conversion Rate Transaction Type 400 Unit & Cost

EC Approval Date Minute No 87 80641 Checked By RON LOVELAND Reviewed for FOD by MARV HARDING

PRESENT FACILITIES ERECTED 1938, ADDED TO IN 1971

REPAIRS/REPL ATTIC INSULATION, PAINTING, REMODEL CHAPEL, WINDOWS, REROOF, OVERBUILD FLAT ROOF, WATERPROOF FOUNDATION, MECHANICAL & ELECTRICAL

ENG/CONS FEE TOPO/BOUNDARY $2,300, TESTING $2,500, PRINTING $1,800, REVIEWS $617, SOUND $2,000, MISC $1,100

ARCHITECT FEE $470,644 CONSTRUCTION $87,122

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Maintenance Project Application and Reimbursement Voucher PF-19

Department of Physical Facilities
50 East North Temple Street
Salt Lake City, Utah 84150
Phone (801) 531-2531

RECEIVED
Nov 16 1987

051846

Read instructions on reverse side. Do not fill in shaded areas. Print or type information.

North America NW

Stake/District (name in full)	Stake/District unit number
Menan Idaho Stake	0513024
Building (wards/branches using building)	
Menan I & Menan II	
Mission (name in full if project is for a district)	

Date	Labor used for project	Local share of cost is on hand, if applicable	Participation ratio	
Oct 1 87	☐ Contract ☐ Donated	☐ Yes ☐ No	% Church % local	☐ Deduct local share from PF-90 check

Project Information

DATE	FED I.D.	VENDOR	CONTRACTOR PAYMENT	CONSULTANT PAYMENT	OTHER	BALANCE 10,509.00
11-19	Inc	Snake River		778.20		9,730.80
12-15	Inc	Waters Asbestos	7871.00			1859.80
12-15	Inc	Snake River		1651.36		208.44

Physical facilities representative	Stake/District president	Mission president (when required)
Clyde R Jones	Tyler D. Taylor	
Project completed. Inspected and accepted by	Contractor's license number	Contractor's Federal Employer's ID number

For Headquarters or Area Office Use Only

Area operations and maintenance representative	Operations and Maintenance area manager	PFAC approval Date / Minute no.
Ruth Shaw		
Risk Management copy forwarded (date)	Override ☐ Payee ☐ Ratio	Detail (property) number 5072638
The funds approved are to be used only for the above.	Attachments ☐ None ☐ Bids ☐ Loss report ☐ Invoices ☐ Other	Check no. / Amount $
APPROVED 11-16-87 DATE PHYSICAL FACILITIES	Pay to	
	Audited by / Date	Approved by

WHITE, CANARY, PINK—O & M field supervisor; GREEN—Stake/District physical facilities representative; GOLDENROD—Stake/District physical facilities clerk

PFBM0271 3/83 Printed in USA

*Code number from latest annual building inspection report

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Maintenance Project Application and Reimbursement Voucher PF-19

Department of Physical Facilities
50 East North Temple Street
Salt Lake City, Utah 84150
Phone: (801) 531-2531

RECEIVED
NOV 1[illegible] 1987

051846

Read instructions on reverse side. Do not fill in shaded areas. Print or type information.

North America NW

Stake/District (name in full)	Stake/District unit number
Menan Idaho Stake	0513024
Building (wards/branches using building)	
Menan I + Menan II	
Mission (name in full if project is for a district)	

Date	Labor used for project	Local share of cost is on hand, if applicable	Participation ratio	
Oct 1 87	☐ Contract ☐ Donated	☐ Yes ☐ No	% Church	% local ☐ Deduct local share from PF-90 check

Project Information

Inspection checklist code*	Repairs - Minor remodeling—Landscaping (include description of materials and labor, justification, itemization, etc.)	Amount of bid or delivered price	Code	Amount
	Request Hygienist Survey	2638 ~~00~~ ~~720 00~~		
	Waters Asbestos	7871		
		10,509.00		
	This work is completed with Chase			

Physical Facilities representative	Stake/District president	Mission president (when required)
Clyde R Jones	Kyle D. Taylor	
Project completed. Inspected and accepted by	Contractor's license number	Contractor's Federal Employer's ID number

For Headquarters or Area Office Use Only

Area operations and maintenance representative	Operations and Maintenance area manager	PFAC approval Date / Minute no.
Ruth Chase		
Risk Management copy forwarded (date)	Override ☐ Payee ☐ Ratio	Detail (property) number 5072638
The funds approved are to be used only for the above.	Attachments ☐ None ☐ Bids ☐ Loss report ☐ Invoices ☐ Other	Check no. / Amount $
	Pay to [redacted]	

APPROVED
11-16-87
DATE
PHYSICAL FACILITIES

Audited by / Date	Approved by

(2)

WHITE, CANARY, PINK—O & M field supervisor; GREEN—Stake/District physical facilities representative; GOLDENROD—Stake/District physical facilities clerk PFBM0271 3/83 Printed in USA

*Code number from latest annual building inspection report

****

* PAYMENT HISTORY FOR PROPERTY # 507 2638 *
* STAKE NAME MENAN ID *
* PROPERTY NAME MENAN 1 2 *
* PF 19# 51846 AC 21# 507 2638 75 *
* SLC CODE *

****

********** REVIEW OF CONSULTANT COSTS **********

SURVEY (Acc # 10)

VENDOR	DESCRIPTION	INVOICE #	INV DATE	POST DATE	INV AMOUNT	MLTPL
SNAKE RIVER & ASSOCIATES	SURVEY	SR87 161	10/30/87	08/15/88	778 20	no
			SURVEY Balance		778 20	
			SURVEY Budget		779 00	
			% of Budget		100%	

PROJECT S (Acc # 12)

VENDOR	DESCRIPTION	INVOICE #	INV DATE	POST DATE	INV AMOUNT	MLTPL
SNAKE RIVER & ASSOCIATES	SUPERVISION	SR87 162	10/30/87	08/15/88	1 651 36	no
			PROJECT S Balance		1 651 36	
			PROJECT S Budget		1 652 00	
			% of Budget		100%	

****

CONSULTANT Balance	2 429 56
CONSULTANT Budget	2 431 00
% To Budget	100%

********** REVIEW OF CONTRACTOR COSTS **********

CONST CO (Acc # 20)

VENDOR	DESCRIPTION	INVOICE #	INV DATE	POST DATE	INV AMOUNT	MLTPL
WATERS ASBESTOS & SUP	ASBESTOS REMOVAL	2503	10/29/87	08/15/88	7 871 00	no
			CONST CO Balance		7 871 00	
			CONST CO Budget		7 871 00	
			% of Budget		100%	

****

CONTRACTOR Balance	7 871 00
CONTRACTOR Budget	7 871 00
% To Budget	100%

****

Project Balance	10 300 56
Project Budget	10 302 00
% To Budget	100%

Snake River Asbestos, Inc.
1310 Vista
Suite 1A
ise, ID 83705

(208)-336-4993

Invoice

RECEIVED
NOV 12 1987
North America NW

No. SR87-162

Date October 30, 1987

Sold To LDS Building Services
3295 Elder- Suite 350
Boise, Idaho 83705

Shipped to

Your Order No. P.O. #	Our Order No.	Salesman	
Date Shipped	Shipped VIA	F.O.B.	Terms

Quantity Ordered	Quantity Shipped	Stock Number/Description	Price		Per	Amount	
		ASBESTOS CONSULTATION- OCTOBER 1987					
		Abatement Supervision- Menan Wards 1 & 2					
		Professional Time- 24 hr.	$ ~~50~~ 35	00	hr	$ 200	00
		Mileage- 832 miles		23	mi	191	36
		Per Diem- 4 days	50	00	dy	200	00
		Sample Analysis- 21 air samples	20	00	ea	420	00
		TOTAL:				$ 1651	36

WilsonJones
GRAYLINE FORM 44-401 3-PART
©1983 • PRINTED IN U.S.A.

7312-01-3831-03-(507-2638-75) lew

Original / Invoice
87

OK TO PAY 1651.36
NAME Snake River
PROJECT # 507-2638-25
DATE: 12-15-87
SIGNATURE

☑ ORIGINAL 12/15/87
☐ COPY Steve M.
SENT TO ~~SALT LAKE CITY~~

Invoice

Snake River Asbestos, Inc.
1310 Vista
Suite 1A
Boise, ID 83705

(208)-336-4993

RECEIVED
10/9 1987
North America NW

No SR87-161

Date October 30, 1987

Sold To LDS Building Services

3295 Elder- Suite 350

Boise, Idaho 83705

Shipped to

Your Order No P O #	Our Order No Snake River Asbestos	Salesman	
Date Shipped	Shipped VIA	F O B	Terms

778.20

Quantity Ordered	Quantity Shipped	Stock Number/Description	Price		Per	Amount	
		ASBESTOS CONSULTATION- OCTOBER 1987					
		Survey- Menan Wards 1 & 2					
		Professional Time- 9 5 hr.	$ 50	00	hr	$ 475	00
		Mileage- 340 miles		23	mi	78	20
		Expenses				25	00
		Sample Analysis- 8 bulk samples	25	00	ea	200	00
		TOTAL				$ 778	20

7312-01-3831-03-(507-2638-75) Yellow Original / Invoice

85

WASCO

PHONE (208) 523-3648

WATERS ASBESTOS & SUPPLY COMPANY

Heat & Frost Insulation Contractors & Suppliers

P.O. BOX 1117 – 2075 NORTH BOULEVARD – IDAHO FALLS, IDAHO 83401

TO

LDS Physical Services
3295 Elder Suite 350
Boise, Idaho 83705

CONTRACT INVOICE

INVOICE DATE	TERMS	CUSTOMER ORDER NO.	PROJECT
10-29-87	Net/10	PO#	Asbestos Abatement Menan 1st & 2nd Ward

LUMP SUM . . . . . $ 7871.00

7312-01-3831-03 - (507-2638-75) lcw

DIVISION 7,871.00
NAME Waters Asbestos
PROJECT # ~~BE 19th 05184~~ 507-2638-75
DATE: 12-3-87
SIGNATURE [signature]

(Original Contract $5000.00)
(Extra $2871.00)

WORK COMPLETED
BY CONTRACTOR
OCTOBER 12, 1987

RS

☑ ORIGINAL 12/15/87
☐ COPY Steve M.
SENT TO ~~SALT LAKE CITY~~

No. 2503

1% SERVICE CHARGE PER MONTH CHARGED ON ACCOUNTS PAST DUE 30 DAYS.

R39437

INVOICE

ASBESTOS ABATEMENT

WORK COMPLETION RELEASE

Building Menan Wards 1 & 2

Project Name: Menan Wards 1 & 2

Building Location Main Street - Menan, Idaho

Building Owner Contact: Keith Chase

Contractor: Waters Insulation - P O Box 1117, Idaho Falls, ID 83402

Bid Amount: $5,000 00 Project Dates October 7-12, 1987

Consultant(s): Tekla Hampel

This form signifies that the above referenced project was completed by the Contractor on October 12, 1987, and that the Contractor is hereby released from the project and is given the Consultant's approval for payment by the Owner

Final Sampling Date: October 12, 1987 Analyzed by: Snake River Associates, Inc

Final Inspection Date October 10, 1987 Conducted by Tekla Hampel

Tekla Hampel by RS
Field Consultant
Snake River Asbestos, Inc

Wayne R Dorband, President
Snake River Asbestos, Inc

Snake River Asbestos, Inc
1310 Vista Suite 1A Boise Idaho 83705 208/336 4993

ASBESTOS ABATEMENT

ADDITIONAL WORK VERIFICATION

Building Menan Wards 1 & 2

Project Name Menan Wards 1 & 2

Building Location: Main Street - Menan, Idaho

Building Owner Contact: Keith Chase

Contractor: Waters Insulation, P O Box 1117, Idaho Falls, ID 83402

Project Dates October 7-12, 1987

Consultant(s): Tekla Hampel

This is to verify that the Contractor did complete additional asbestos abatement work during the course of this project as follows

Boiler Room - 80 joints

Tunnel/Crawlspace - 38 joints

Upper Fan Room - 33 joints

Tekla Hampel by RS

Field Consultant
Snake River Asbestos, Inc

Wayne R Dorband, President
Snake River Asbestos, Inc

FINAL REPORT

FOR

MENAN 1 AND 2 WARDS BUILDING

MENAN, IDAHO

ASBESTOS ABATEMENT PROJECT

by

DR. WAYNE R. DORBAND

November 21, 1987

INTRODUCTION

In October, 1987, Mr Keith Chase, area physical facilities representative for the LDS Church, contacted Dr Wayne Dorband, president of Snake River Asbestos, Inc , about the possibility of our firm acting as the industrial hygiene consultants for an asbestos abatement project at the Menan 1 & 2 Wards Building, Menan, Idaho Dr Dorband visited with Mr Chase and it was determined that a survey of the building would be initially required and that following a completion of that survey, an abatement project be completed A survey of the building was completed on October 1, 1987, and the Church authorized us to solicit verbal bids for abatement An award for the completion of the abatement project was made in October, 1987 Waters Insultation, Inc , of Idaho Falls, Idaho was contracted to conduct the asbestos removal under Snake River Asbestos, Inc s supervision

Asbestos abatement in the building was completed in Mid-October, 1987, and this report summarizes the results of those abatement activities

ASBESTOS ABATEMENT PROGRAM ACTIVITIES

The asbestos abatement project for the Menan 1 & 2 Wards Building was directed by Dr Wayne Dorband, president of Snake River Asbestos, Inc Dr Dorband conducted all of the correspondence with the building representatives and abatement contractor on the project The entire abatement project was supervised throughout its course by Ms Tella Hampel, asbestos professional for Snake River Asbestos, Inc Ms Hampel has extensive experience supervising asbestos abatement projects The asbestos abatement activities were conducted by staff members of Waters Insulation, Inc , Idaho Falls, Idaho All activities were conducted under strict observance of the project specifications, as well as OSHA and EPA standards regarding asbestos abatement

The utmost caution relating to health and safety considerations was taken at all times All areas where asbestos abatement was occurring were posted and occupants were not allowed in the facilities until after clean air samples had certified that the areas were free of asbestos contamination Extensive air sampling was conducted throughout the abatement by Ms Hampel

All asbestos material removed was placed in approved 6-mil plastic bags, sealed, and stored in a totally enclosed truck prior to taking it to an approved landfill for disposal. Waters Insulation, Inc., staff members remained at the disposal site and used all proper respiratory protection precautions until the asbestos material was properly buried by disposal site operators. Following the disposal of asbestos materials at the landfill, a receipt was obtained by Waters Insulation, Inc., for the load. This receipt is being held in records by Waters Insulation, Inc.

On October 7, 1987, Ms. Hampel arrived on site at the Menan Building and initiated pre-abatement air samples in the areas of the building where removal was to be conducted. This included an upstairs area where tile was present on the floor, the boiler room, and the crawlspace area. Through her pre-abatement inspection, another upper fan room was identified which had 33 fittings in it. Consultation with Mr. Chase was conducted to determine whether fittings in this room should be removed. Also, it was found that in the room where the tile removal was to occur, the remodeling contractor had constructed framework over some of the tile area. It was determined that this tile under the framing would not be removed and would be encapsulated on surface areas at the edge of the removal of the tile.

Throughout the day on October 7th, the abatement crew constructed enclosure and decontamination areas, and pre-cleaned all the work areas. Ms. Hampel completed pre-abatement air samples on the morning of October 8, and found that all fiber levels in all samples were below the detection limits of 0.01 fibers/cc (Appendix A; Samples W-103-M12-1 thru M12-3).

It was determined on the morning of October 8th, that the extra fittings found in the upper fan would be removed. Therefore, Ms. Hampel obtained a pre-abatement sample in this area. Fiber levels in this sample were well below the detection limits of 0.01 fibers/cc (Appendix A; Sample W-103-M12-6). Throughout the early part of the day on October 8th, the abatement crew continued to conduct the construction of the enclosure system. This was completed around 2:00 P.M. and removal in the area of the building with the tile was begun. This removal was completed in a very short period of time, around 3:30 in the afternoon of the same day.

Throughout this removal process, Ms. Hampel obtained air samples inside the work area and outside the work area. Fiber levels in these samples were low, being less than detection limits (Appendix A; Samples W-103-M12-4 and M12-5).

On the morning of October 9th, Ms Hampel inspected the enclosure areas for the boiler room, and soon after this time removal was initiated in that area This removal was conducted throughout the day Ms Hampel obtained air samples throughout the day as personal monitor samples, inside work area samples, and outside work area samples Fiber levels in samples taken outside the work area were below detection limits, and inside the work area fiber levels were moderate to low (Appendix A, Samples W-103-M12-7 to M12-11)

Near the end of the day on October 9th, Ms Hampel inspected the tile removal area, and following her inspection initiated a post-abatement sample in the area This sample was completed in the morning on October 10th, and was immediately sent to our Boise laboratory for analysis It was found that this sample contained less than the clearance detection limit levels of 0 01 fibers/cc (Appendix A, Sample W-103-M12-13) Following completion of this analysis, Ms Hampel released the abatement crew to tear down the enclosure system and released them from this work area

On the morning of October 10th, removal activities were continued in the boiler room It was found that there were more fittings present in the boiler room than were expected from the initial survey This removal in the boiler room continued throughout the morning, and was completed around noon Following the completion of removal, the crew removed waste material in a load out procedure Concurrently with the work in the boiler room, the crew completed all removal activities in the crawlspace area, which was adjacent to the boiler room Throughout the day on October 10th, Ms Hampel obtained air samples in the boiler room work area, crawlspace work area, and outside the work areas Fiber levels in all these samples were low, indicating the relative safety of this removal process (Appendix A, Samples W-103-M12-14 thru M12-16)

Following completion of the removal in the boiler room and crawlspace, the crew moved to thr upper fan room area in the afternoon on October 10th This removal was conducted throughout the afternoon on that day Removal was completed midafternoon of the same day Ms Hampel obtained air samples in the upper fan room work area, and as a personal monitor during this removal Fiber levels in these samples were very low, being less than detection limits (Appendix A, Samples W-103-M12-17 and M12-18)

Late in the afternoon on October 10th, Ms Hampel inspected the boiler room, crawlspace, and upper fan rooms areas During this inspection she counted all the fittings and determined whether the abatement activites had been conducted properly She determined that there were 238 total fittings in the crawlspace and boiler room area, and 33 fittings in the upper fan room Her observation was that all the area had been properly cleaned and heavily encapsulated Around 4 00 P M she initiated post-abatement air sampling in the boiler room, crawlspace, and upper fan room areas During her inspection she did find a few runs of pipe that were enclosed in a pipe chase which were now exposed She contacted Mr Chase and found that these pipes would be enclosed again in another chase, so they would not need to be removed

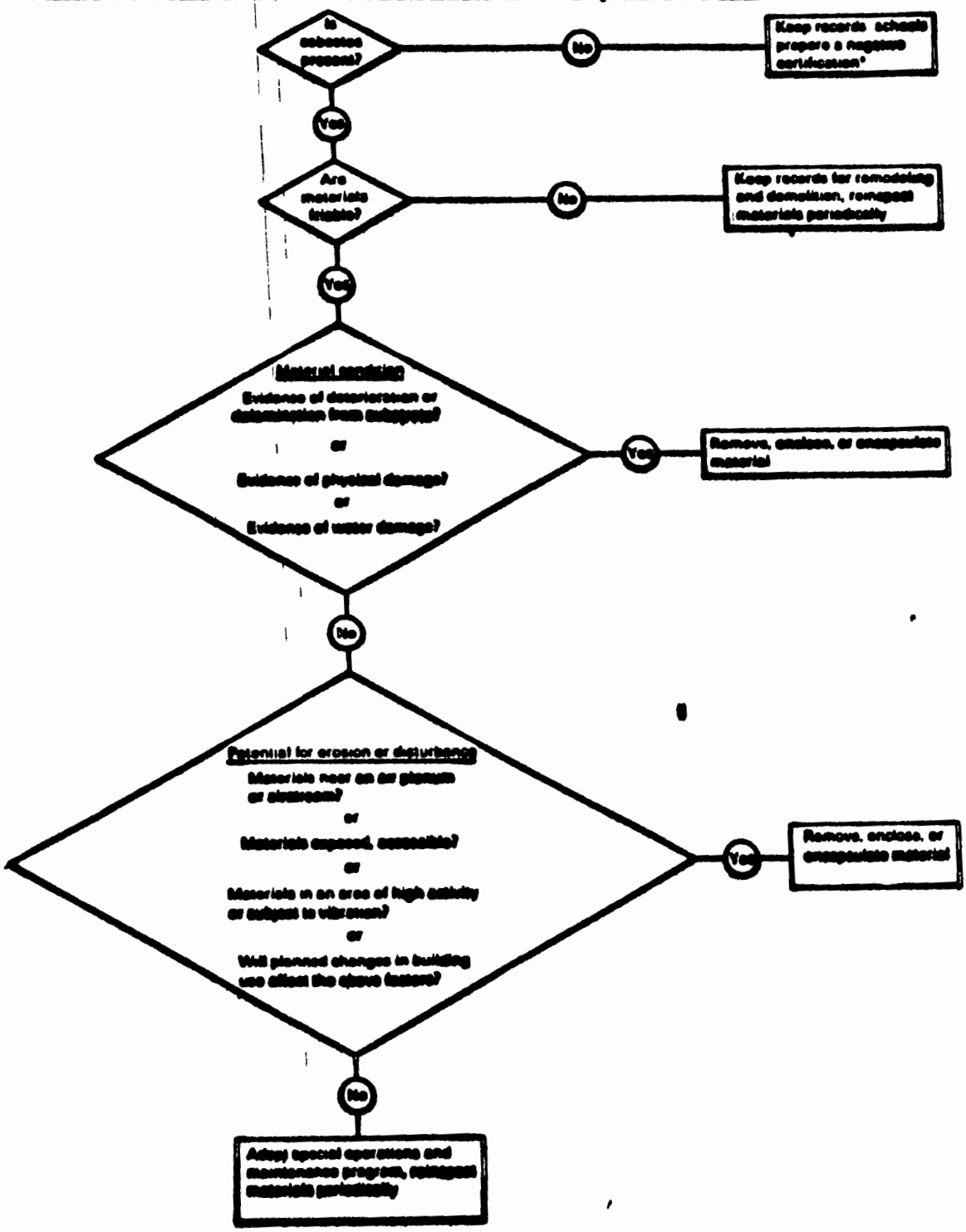
Post-abatement air samples were run through the night and completed in the morning on October 12, 1987 These samples were immediately sent to our Boise laboratory for analysis Fiber levels in these three samples were all well below the clearance detection limits of 0 01 fibers/cc (Appendix A, Samples W-103-M12-19 to M12-21) Following the completion of post-abatement samples, Ms Hampel released the abatement crew to tear down their enclosure setups, and notified the building owner that reoccupancy of the removal area could occur

There were no health or safety problems encountered in this project, and there were no breaches of the work area enclosure system This project was conducted as safely as possible under the conditions of the work site At this time it is our observation that all friable asbestos material has been removed from exposed areas of this building, with the exception of the pipe chase areas mentioned previously which we were assured would be enclosed during the reconstruction activities However, we cannot determine whether there may or may not be any additional asbestos materials present inside enclosed areas such as those areas between walls or above ceiling areas

Table I. Comparison of Various Asbestos Control Alternatives.

Method	Advantages	Disadvantages	Appropriate applications	Inappropriate applications	General comments
Removal	Eliminates asbestos source Eliminates need for special operations and maintenance program	Replacement with substitute material may be necessary Porous surfaces also may require encapsulation Improper removal may raise fiber levels	Always	Never	Containment barriers needed Worker protection required Wet removal is required for all types of asbestos, (amosite will not adsorb water or water with traditional wetting agents) Disposal may be a problem in some areas Unusual circumstances, complex surfaces, and the presence of utilities may require special removal techniques
Enclosure	Reduces exposure in the area outside the enclosure Initial costs may be lower than removal unless utilities need relocating or major changes Usually does not require replacement of material	Asbestos source remains and must be removed eventually Fiber release continues behind enclosure Special operations program required to control access to enclosure for maintenance and renovation Periodic reinspection required to check for damage Repair of damaged enclosure necessary Fibers released in dry form during construction of enclosure Long-term costs could be higher than removal	When materials need to be isolated from building occupants (e.g. exposed pipe) Disturbance or entry into enclosed area unlikely	Damaged or deteriorating materials causing rapid fiber release Water damage evident Damage or entry into enclosure likely Ceiling to be enclosed is low	Containment barriers needed Use of tools with HEPA-filtered vacuum attachments advisable Worker protection needed

Figure 1. Steps in Selecting a Course of Action for Asbestos Abatement



*A statement certifying that friable asbestos-containing materials are not present.

APPENDIX "A"

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

Sample Identification:
W-103-M12-1: Boiler room
W-103-M12-2: Northeast room
W-103-M12-3: Crawlspace

CLIENT:
LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample	Description	Results
W-103-M12-1	Pre-abatement*	< 0.005 fibers/cc
W-103-M12-2	Pre-abatement*	< 0.005 fibers/cc
W-103-M12-3	Pre-abatement*	< 0.005 fibers/cc

* Taken during the night of October 7-8, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

Sample Identification:

W-103-M12-4: Outside work areas
W-103-M12-5: Personal monitor-Scott
W-103-M12-6: Upper fan room

CLIENT:

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample	Description	Results
W-103-M12-4	During abatement*	< 0.005 fibers/cc
W-103-M12-5	During abatement*	0.105 fibers/cc
W-103-M12-6	Pre-abatement*	< 0.010 fibers/cc

* Taken October 8, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

CLIENT:

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification:

W-103-M12-7: Outside work area
W-103-M12-8: Boiler room- in work area
W-103-M12-9: Boiler room-personal monitor (Bret)
W-103-M12-10: Boiler room- in work area
W-103-M12-11: Boiler room- personal monitor

Sample	Description	Results
W-103-M12-7	During abatement*	< 0.015 fibers/cc
W-103-M12-8	During abatement*	0.127 fibers/cc
W-103-M12-9	During abatement*	0.111 fibers/cc
W-103-M12-10	During abatement*	0.071 fibers/cc
W-103-M12-11	During abatement*	1.678 fibers/cc

* Taken October 9, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

CLIENT:

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification:

W-103-M12-12: Personal monitor-Scott
W-103-M12-13: Room with tile
W-103-M12-14: Outside work areas
W-103-M12-15: Boiler room- in work area
W-103-M12-16: Boiler room- personal monitor(Bret)

Sample	Description	Results
W-103-M12-12	During load-out*	< 0.389 fibers/cc
W-103-M12-13	Post abatement*	< 0.010 fibers/cc
W-103-M12-14	During abatement*	< 0.017 fibers/cc
W-103-M12-15	During abatement*	0.046 fibers/cc
W-103-M12-16	During abatement*	0.123 fibers/cc

* Taken October 10, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By: Menan Wards 1 & 2

CLIENT:
LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification:

W-103-M12-17: Upper fan room- in work area
W-103-M12-18: Upper fan room- personal monitor
W-103-M12-19: Boiler room
W-103-M12-20: Crawlspace
W-103-M12-21: Upper fan room

Sample	Description	Results
W-103-M12-17	During abatement (10-10)	< 0.093 fibers/cc
W-103-M12-18	During abatement (10-10)	< 0.111 fibers/cc
W-103-M12-19	Post abatement*	< 0.005 fibers/cc
W-103-M12-20	Post abatement*	< 0.005 fibers/cc
W-103-M12-21	Post abatement*	< 0.005 fibers/cc

* Taken over the days of October 10-12, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

WASCO

PHONE (208) 523-3648

WATERS INSULATION & SUPPLY INC.

Heat & Frost Insulation Contractors & Suppliers

2075 N. BLVD. - REAR | IDAHO FALLS, IDAHO 83402 | P.O. BOX 1117

10-8-87

ASBESTOS REMOVAL NOTIFICATION FORM

Contractor:

Verbal by Telephone 10-7-87
as per Mark Masarik

Name: Waters Insulation & Supply Co., Inc.
Address: P. O. Box 1117
Idaho Falls, Idaho 83405

Phone: (208)-523-3648

Building Owner/Operator:

Name: Menan 1st & 2nd Wards
Address: Main Street
Menan, Idaho

Building Description:

Size: N/A
Age: 30 Yrs old
Prior (or present) use: Church

Approx. Amount of Asbestos Material to be removed:

Linear Feet: 120 Joints Average Thickness:
Square Feet: 360 Floor Tile Average Thickness:

Location of work site:

Menan 1st & 2nd Wards
Menan, Idaho

Starting and Completion Dates:

From: 10-12-87 To: 10-16-87

Type of Renovation or Demolition Operation:

Remove asbestos from Joints and Remove Asbestos floor Tile

Exact Methods to be used to Comply with Federal Regulations:

Removing Asbestos: Total containment and glove bags

Eliminating visible emissions outside of work area: N/A

Transporting: Closed Van - Plastic lined

Disposing: 6 mil Ply Bags Doubled

ail To:
EPA
422 Washington Street
Boise, Idaho 83702

Attention: Al Odmark

State Health Dept.
Asbestos Removal Dept.
Boise, Idaho 83702

Disposal Site:

Name: Idaho Falls Land Fill
Address: Idaho Falls, Idaho

Site Operator: City of Idaho Falls

WASCO

PHONE (208) 523-3648

WATERS INSULATION & SUPPLY INC.

Heat & Frost Insulation Contractors & Suppliers

2075 N. BLVD. - REAR IDAHO FALLS, IDAHO 83402 P.O. BOX 1117

December 10, 1987

LDS Physical Services
3295 Elder - Suite 350
Boise, Idaho 83705

Ref: Asbestos Abatement - Menan 1st & 2nd Wards
Menan, Idaho

Gentlemen:

Enclosed, please find the following records for your file for the above referenced project:

1. Asbestos Removal Notification Form (1 Copy) EPA
2. Asbestos Analytical Report (5 Copies) Snake River Associates
3. Asbestos Waste Disposal Form (2 Copies) Waters

If further assistance is needed, please contact the undersigned.
Thank You.

Sincerely,

Pattie G. Wilson

Pattie G. Wilson
Asbestos Abatement Coordinator

cc: file

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

Sample Identification:
W-103-M12-1: Boiler room
W-103-M12-2: Northeast room
W-103-M12-3: Crawlspace

CLIENT:
LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample	Description	Results
W-103-M12-1	Pre-abatement*	< 0.005 fibers/cc.
W-103-M12-2	Pre-abatement*	< 0.005 fibers/cc
W-103-M12-3	Pre-abatement*	< 0.005 fibers/cc

* Taken during the night of October 7-8, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Menan Wards 1 & 2

Sample Identification:

W-103-M12-4: Outside work areas
W-103-M12-5: Personal monitor- Scott
W-103-M12-6: Upper fan room

CLIENT:

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample	Description	Results
W-103-M12-4	During abatement*	< 0.005 fibers/cc
W-103-M12-5	During abatement*	0.105 fibers/cc
W-103-M12-6	Pre-abatement*	< 0.010 fibers/cc

* Taken October 8, 1987.

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Authorized Signature

Wayne Dorband, PhD.
President

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc
1310 Vista Suite 1A
Boise Idaho 83705
208/336-4993

Menan Wards 1 & 2

CLIENT

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification

W-103-M12-7: Outside work area
W-103-M12-8: Boiler room- in work area
W-103-M12-9: Boiler room-personal monitor (Bret)
W-103-M12-10: Boiler room- in work area
W-103-M12-11: Boiler room- personal monitor

Sample	Description	Results
W-103-M12-7	During abatement*	< 0 015 fibers/cc
W-103-M12-8	During abatement*	0 127 fibers/cc
W-103-M12-9	During abatement*	0 111 fibers/cc
W-103-M12-10	During abatement*	0 071 fibers/cc
W-103-M12-11	During abatement*	1 678 fibers/cc

* Taken October 9, 1987

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis

RECEIVED
DEC 1 5 1987
North Fremont

Authorized Signature

Wayne Dorband, PhD
President

Snake River Associates, Inc
1310 Vista Suite 1A
Boise Idaho 83705
208/336-4993

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By: Menan Wards 1 & 2

CLIENT

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification

W-103-M12-12: Personal monitor- Scott
W-103-M12-13: Room with tile
W-103-M12-14: Outside work areas
W-103-M12-15: Boiler room- in work area
W-103-M12-16: Boiler room- personal monitor(Bret)

Sample	Description	Results
W-103-M12-12	During load-out*	< 0 389 fibers/cc
W-103-M12-13	Post abatement*	< 0.010 fibers/cc
W-103-M12-14	During abatement*	< 0.017 fibers/cc
W-103-M12-15	During abatement*	0 046 fibers/cc
W-103-M12-16	During abatement*	0.123 fibers/cc

* Taken October 10, 1987

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis

Authorized Signature

Wayne Dorband, PhD
President

RECEIVED
DEC 1 1 -

Date Reported: October 26, 1987
Date Received: October 12, 1987
Sample Code No: W-103-M12-1 thru M12-21
Submitted By:

Snake River Associates, Inc
1310 Vista Suite 1A
Boise Idaho 83705
208/336-4993

Menan Wards 1 & 2

CLIENT

LDS Physical Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification

W-103-M12-17: Upper fan room- in work area
W-103-M12-18: Upper fan room- personal monitor
W-103-M12-19: Boiler room
W-103-M12-20: Crawlspace
W-103-M12-21: Upper fan room

Sample	Description	Results
W-103-M12-17	During abatement (10-10)	< 0 093 fibers/cc
W-103-M12-18	During abatement (10-10)	< 0 111 fibers/cc
W-103-M12-19	Post abatement*	< 0 005 fibers/cc
W-103-M12-20	Post abatement*	< 0 005 fibers/cc
W-103-M12-21	Post abatement*	< 0 005 fibers/cc

* Taken over the days of October 10-12, 1987

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis

Authorized Signature

Wayne Dorband, PhD.
President

RECEIVED
DEC 1
North

PHONE (208) 523-3648

WATER INSULATION & SUPPLY INC.

Heat & Frost Insulation Contractors & Suppliers

2075 N BLVD - REAR | IDAHO FALLS, IDAHO 83402 | P.O BOX 1117

WASTE DISPOSITION

DATE: 1/5/87

LANDFILL: Idaho Falls

MATERIAL: Asbestos

MATERIALS REMOVED FROM: Mon. 405

THE BELOW SIGNED LANDFILL OPERATOR RECEIVED ALL WASTE IN PROPERLY CONTAINED LEAK-TIGHT CONTAINERS APPROPRIATELY LABELED AS ASBESTOS WASTE. ALL LANDFILLING AS RECOMMENDED BY FEDERAL, STATE AND LOCAL LAWS.

LAND FILL OPERATOR SIGNED Merle Bath

PHONE (208) 523-3648

WATERS INSULATION & SUPPLY INC.

Heat & Frost Insulation Contractors & Suppliers

2075 N. BLVD. - REAR | IDAHO FALLS, IDAHO 83402 | P.O. BOX 1117

WASTE DISPOSITION

DATE: 11/5/87

LANDFILL: Idaho Falls

MATERIAL: Asbestos

MATERIALS REMOVED FROM: Menan - LDS

THE BELOW SIGNED LANDFILL OPERATOR RECEIVED ALL WASTE IN PROPERLY CONTAINED LEAK-TIGHT CONTAINERS APPROPRIATELY LABELED AS ASBESTOS WASTE. ALL LANDFILLING AS RECOMMENDED BY FEDERAL, STATE AND LOCAL LAWS.

LAND FILL OPERATOR SIGNED [signature]

PROFESSIONAL CONSULTANT'S AGREEMENT

This Agreement made and entered into by and between Corporation of the Presiding Bishop of The Church of Jesus Christ of Latter-day Saints, a Utah corporation sole, hereinafter referred to as Owner, and SNAKE RIVER ASBESTOS, INC.
of Boise, Idaho
hereinafter referred to as Professional Consultant.

WITNESSETH:

WHEREAS, Owner proposes to have Professional Consultant provide supervisory and inspection services for the removal of asbestos from the MENAN 1 & 2 WARDS BUILDING,
building; located at Main Street, Menan, Idaho
and referred to hereinafter as Project; and

WHEREAS, Professional Consultant agrees to provide said services;

NOW, THEREFORE, BASED UPON THE CONSIDERATION HEREINAFTER ENUMERATED, Owner and Professional Consultant covenant, promise, and agree as follows:

ARTICLE I
Compensation

A. Owner shall compensate Professional Consultant for his services to be rendered as hereinafter described, the fixed fee of
($2,638.20).

B. The figure in "A" above may fluctuate according to the actual costs of the work involved, but in no event will it exceed twenty percent (20 %) of the actual costs to remove and replace the asbestos on the project.

C. Professional Consultant will provide written inspection reports of his site visits and make site visits on an average of once per day.

D. Professional Consultant will maintain project expenses for change orders resulting from Professional Consultant's errors and omissions to less than five percent of original contract cost.

E. Professional Consultant will satisfy Owner that project conforms to the approved Contract Documents.

F. Fee payments as contained in Article I above shall be made in proportion to services completed by Professional Consultant and approved by Owner, in accordance with incremental periods during the project based upon a percentage of the work completed, but not in excess of 95 percent of the total anticipated fee until the work has been satisfactorily accomplished.

G. Expenses for transportation, communications and living expenses related to the work shall be included as part of Professional Consultant's fee.

H. Owner shall compensate Professional Consultant for additional services under Article VIII hereof at the rate of six percent (6 %) of the cost of the extra construction or work requiring the additional services.

ARTICLE II
Changes in Scope:

A. Changes shall be approved in writing by Owner before Professional Consultant proceeds.

B. Prior to construction, compensation adjustment will be negotiated for change in scope requiring additional professional service from Professional Consultant.

ARTICLE III
Professional Consultant's Services

A. General

Professional Consultant shall:

1. Provide a complete set of Construction Documents to meet requirements of local conditions, site, utilities, climate, code, zoning, regulatory agencies, and to meet Owner's directives, policies and instructions.

2. Affix Professional Consultant's seal with signatures to respective portions of Construction Documents in accordance with local laws and ordinances. Professional Consultant is responsible to take whatever steps are necessary to ensure that Construction Documents are properly prepared to comply with applicable state laws.

3. Keep Owner informed of project development and assist Owner in review.

4. Provide submittals to Owner where required by fastest means available.

5. In business dealings, act ethically and in best interest of Owner.

B. Pre-Construction Phase Documents

1. Prepare and submit specifications and Owner required documents incorporating necessary local code and use permit requirements.

C. Construction Phase:

Professional Consultant shall:

1. Assist Owner in obtaining bonds, insurance and signed agreement from Contractor and forward to Owner.

2. Provide Professional Consultant administrative services as listed in Contract Documents.

3. Act as official office of record for Contractor's Agreement. Conduct all correspondence with Contractor. Provide sole point of instructions and orders to Contractor for Owner. Keep Owner informed by furnishing copies of correspondence.

4. Review progress schedule and submittal schedule submitted by Contractor and advise Owner.

5. Certify Contractor's payment request, Form PFB-31 furnished by Owner, based on Professional Consultant's approval that work conforms to Contract Documents as represented by Contractor.

6. Weekly progress meetings:

a. Arrange a fixed date, time, and place to meet each week.

b. Conduct.

c. Forward a copy of minutes to all parties.

D. Inspection:

1. Make appropriate site visits as necessary to insure the project is progressing steadily, safely and legally.

2. Forward to Owner consultant's written inspection reports of site visits within seven (7) days.

E. Change Orders:

1. Determine justification for change order, with Contractor and submit to Owner for approval before proceeding.

2. If necessary make specification changes required to portray approved changes in work for Contractor.

3. Review Contractor's breakdown of quantities, material unit prices, labor unit prices, and application of overhead and profit allowed by specifications for fairness and accuracy. Advise and assist Owner with negotiations.

4. Prepare application and obtain signatures on Change Order Form FMBD 0227 furnished by Owner. Forward to Owner for approval.

F. Completion Phase:

Professional Consultant shall:

1. Provide administration of Construction Documents as set forth in General Conditions, Supplementary Conditions and Specifications.

2. Conduct pre-substantial completion inspection with Contractor. Conduct substantial completion inspection with Owner, Church officials, and Contractor. Coordinate follow-up inspections and forward final Construction Project Progress Reports and inspection punch list to Owner and Contractor.

ARTICLE IV
Owner's Responsibilities

A. Owner shall provide:

1. Number of calendar days for construction from date of notice to proceed to completion date.

2. Liquidated damage amount for construction phase.

3. Project budget limitations.

ARTICLE V
Successors and Assigns

Owner and Professional Consultant each binds himself, his partners, successors, assigns and legal representatives to the other party to this agreement and to partners, successors, assigns and legal representatives of such other party in respect of all covenants of this Agreement. Neither Owner nor Professional Consultant shall assign, sublet, or transfer his interest in this Agreement without written consent of other.

ARTICLE VI
Termination of Agreement

This Agreement may be terminated at any phase of the work by either party upon seven (7) days written notice. Professional Consultant shall be compensated for services performed under this agreement to date of this notice. He will also be liable to Owner for any damage or loss suffered by Owner as a result of said service.

ARTICLE VII
Applicable Law

This Agreement shall be governed by law of principle place of business of Professional Consultant and may be amended only by written instrument signed by both Owner and Professional Consultant.

ARTICLE VIII
Additional Services

A. Additional Services not included in basic services of this Agreement, which shall be provided if authorized or confirmed in writing by Owner and shall be compensated by Owner as provided in this Agreement in addition to compensation for basic services, are as follows:

1. Providing consultation concerning replacement of any work damaged by fire or other cause during construction.

2. Providing services made necessary by the default of the Contractor by defects or deficiencies in the work of the Contractor, or performance of the Contractor under the Contract for Construction.

The effective date of this Agreement shall be date that the Owner signs.

Professional Consultant:

SNAKE RIVER ASBESTOS, INC.

By: _____
Wayne R. Dorband, PhD, President

Owner:

CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, a Utah corporation sole,

By: _____
Authorized Agent, Fred A. Baker

CONTRACT

THIS CONTRACT AND AGREEMENT, made and entered into this ____ day of _____, in the year Nineteen Hundred and Eighty-Seven by and between the **CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS,** A Utah Corporation sole, hereinafter called "Owner," and **WATERS INSULATION & SUPPLY, INC.,** of **IDAHO FALLS, IDAHO,** hereinafter called "Contractor."

WITNESSETH:

WHEREAS: Owner intends to have certain work performed as outlined below, and

WHEREAS: Contractor is able and willing to perform such work,

NOW THEREFORE: Owner and Contractor for the consideration hereinafter provided agree as follows:

ARTICLE I - SCOPE OF WORK

Contractor shall furnish all of the materials and equipment and perform all of the labor necessary to complete all of the work for the **Menan 1 and 2 Wards, Menan Idaho Stake,** required in the Contract Documents entitled **"Asbestos Survey Report for Menan 1 and 2 Ward Building, Menan, Idaho,"** as prepared by **Snake River Associates, Inc., Boise, Idaho,** hereinafter referred to as "Professional Consultant."

ARTICLE II - THE CONTRACT DOCUMENTS

The General Conditions of the Contract, Supplementary Conditions, the Specifications entitled **"Asbestos Survey Report for Menan 1 and 2 Ward Building, Menan, Idaho,"** prepared by **Snake River Associates, Inc., Boise, Idaho,** any addenda issued and numbered, together with this Agreement, form the Contract and are as fully a part thereof as if attached hereto or repeated herein.

ARTICLE III - THE CONTRACT SUM

Owner shall pay and Contractor shall accept as a guaranteed maximum price as payment of this Contract, the sum of **Seven Thousand Eight Hundred Seventy-one and no/100 Dollars ($7,871.00),** subject to additions and deductions provided in the Contract. In the event there are any savings in manhours on items 1 and 3 of the specifications, these savings shall be passed on to Owner and the contract sum reduced accordingly.

ARTICLE IV - TIME OF COMMENCEMENT AND COMPLETION

Work under this Contract shall commence upon written notice to proceed from Owner, and be completed and ready for Owner's final inspection within ____ working days from the date of such notice. Time is of the essence. Working days are defined as days when Contractor is permitted to perform work by Owner. It is understood and agreed that there may be days when Contractor will not be permitted to work. For these days, Contractor waives any claim for delay, damages or any damages related thereto.

ARTICLE V - INSPECTION

The fact that any particular work has been inspected shall not be considered a waiver of the requirements of strict compliance with the Contract Documents.

ARTICLE VI - CONTRACTOR NOT AGENT OF OWNER

It is expressly agreed that Contractor is not the agent or employee of Owner, but that he is an independent Contractor.

ARTICLE VII - PROGRESS PAYMENTS, FINAL ACCEPTANCE, AND FINAL PAYMENT

Payments shall be made in accordance with the applicable Sections of the Contract Documents.

ARTICLE VIII - ASSIGNS

Neither party to the Contract shall assign the Contract or sublet it as a whole without the written consent of the other. Contractor shall not assign any monies due or to become due to him hereunder nor shall he pledge or attempt to pledge the credit of Owner or bind the Owner to any third party.

ARTICLE IX - ACCEPTANCE

The work shall be inspected for acceptance by Owner promptly upon receipt of notice from Contractor and the Professional Consultant that all work is complete and ready for inspection. All work and materials connected therewith shall be at Contractor's risk until accepted by Owner in writing.

ARTICLE X - DEFAULT AND ATTORNEY'S FEES

Should any dispute arise between the parties hereto with regard to the performance of their respective obligations under the Contract Documents, which dispute cannot be settled between the parties and litigation is commenced, then the losing party in the litigation agrees to pay all costs and reasonable attorney's fees of the prevailing party.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the day and year first above written, binding themselves, their heirs, successors, executors, administrators and representatives to the full performance of the contract.

REVIEWED & APPROVED:

ACCEPTED

OWNER: CORPORATION OF THE
PRESIDING BISHOP OF THE CHURCH OF
JESUS CHRIST OF LATTER-DAY SAINTS,
A Utah Corporation Sole,

by Ronald L. Loveland
Authorized Agent

CONTRACTOR: WATERS INSULATION & SUPPLY

by Donald Eu Waters
Name and Title Owner/Manager
License # 5432-AAA-4 (24)
State where issued: Idaho

ASBESTOS SURVEY REPORT

FOR

MENAN 1 AND 2 WARD BUILDING

MENAN, IDAHO

Menan, ID Stake

by

WAYNE R. DORBAND, PHD.

October 20, 1987

Snake River Asbestos, Inc
1310 Vista Suite 1A Boise Idaho 83705 208/336 4993

June 7, 1988

507 2638
MENAN 1, 2
MENAN ID

Mr Scott Satterfield
LDS Physical Facilities Office
P O Box 15309
Boise, Idaho 83715

Dear Mr Satterfield

Upon reviewing our survey protocol for the Menan 1 and 2 Ward Building, we have verified that our survey actually has identified all friable and non-friable asbestos-containing materials present inside the building in exposed areas Our earlier report only indicated that we had identified friable materials

Sincerely yours,

Wayne Dorband, PhD , President
Snake River Asbestos, Inc

WD/djh

INTRODUCTION

At the request of Mr. Keith Chase, field coordinator for the LDS Church, Salt Lake City, Utah, Snake River Asbestos, Inc. conducted an asbestos monitoring survey for the Menan Ward Building, Menan, Idaho. The survey was conducted on October 10, 1987. This survey was conducted to determine the possible presence and location of friable asbestos in the Ward Building. If asbestos was present, it was intended that Snake River Asbestos, Inc. would prepare recommendations for an asbestos control program, and specifications for a removal.

see ATTACHED LETTER

This report summarizes work conducted to date by Snake River Asbestos, Inc., for the Menan Ward Building, including results of a survey conducted by Mr. James Farley.

PROJECT PERSONNEL

The Project Director for the Menan 1 & 2 Wards Building is Dr. Wayne Dorband. Dr. Dorband has extensive experience in the asbestos abatement industry and has an excellent reputation with regulatory agency officials. Project microscopist is Ms. Debra Dorband, who also has extensive microscopy experience working with asbestos-containing materials.

ASBESTOS SURVEY RESULTS

Methodology

On October 10, 1987, Mr. James Farley, asbestos professional for Snake River Asbestos, Inc., conducted a walk-thru inspection of the Menan 1 & 2 Wards Building, as directed by Keith Chase, representative for the building. All areas of the building were inspected at this time.

Careful notes were taken detailing any materials which appeared friable and could possibly contain asbestos. Eight bulk samples were collected from suspicious materials in the building. All sampling locations for bulk samples were selected discriminately to represent all possible friable asbestos sources in the facility. Presence of asbestos in one given type of insulation was assumed to represent a similar presence in visually similar insulation in any part of the building.

Following collection, all bulk samples of insulation material were returned to Snake River's laboratory for microscopic analysis. The EPA methods for analysis of bulk asbestos samples using polarizing light microscopy were used.

Initially, samples were characterized visually by the microscopist, and if multiple layers were present, these layers were separated and analyzed individually. If samples were not layered, but were also not homogeneous, they were ground with a porcelain mortar and pestal until homogeneous. Microscope slides were prepared with 1.550 refractive index fluid and analyzed using an Olympus BH-2 polarizing light microscope by the method outlined in the Federal Register and endorsed by the EPA and NIOSH. All samples are maintained at our Boise laboratory for at least one year following project completion.

Survey Observations and Sample Analysis Results

Survey results and observations will be reported by area for each of the Menan 1 & 2 Wards Building areas which contained suspicious materials. Sample analysis report forms for the materials analyzed are included in the Appendix and are referred to in the text for each area.

Boiler Room

Straight runs of pipe in the boiler room area are insulated with fiberglass materials. However, fittings in the boiler room are insulated with a suspicious material which was sampled by Mr. Farley. Sample analysis indicated that the fittings materials did contain asbestos materials (Appendix A; Samples W-103-MEN1 & MEN2). There are approximately 67 fittings in the boiler room which are insulated with asbestos materials. These fittings are in good condition, but have high accessibility and exposure.

There is also a duct cloth which connects the boiler to the ducting leaving it. This material was sampled and found to contain asbestos (Appendix A; Sample W-103-MEN3). There were approximately 3 square feet of this material. This material was in good condition, but had high exposure and accessibility.

Finally, there are approximately 340 square feet of tile in the boiler room which appears suspicious in its composition. However, sample analysis of this tile indicated that it was completely free of asbestos (Appendix A; Sample W-103-MEN4). There were no other sources of friable asbestos material identified in the boiler room area.

Northeast Room

The Northeast Room in the basement area has a tile flooring which appeared suspicious during Mr. Farley's inspection. Sample analysis of this flooring indicated that it did contain asbestos materials (Appendix A; Sample W-103-MEN5). There are approximately 360 square feet of this tile present in the room. It has very low friability, but it is highly exposed and accessible. There were no other sources of friable asbestos material present in the Northeast Room.

Tunnel

All of the straight runs of pipe in the tunnel area are insulated with fiberglass, but the joints in the area were suspicious and therefore sampled by Mr. Farley. Sample analysis indicated that they do contain asbestos materials (Appendix A; Sample W-103-MEN6). There are approximately 53 of these joints present in the tunnel. These joints are in moderate condition and have low exposure and accessibility. There were no other sources of friable asbestos identified in the tunnel area.

Basement Rooms

These rooms are located throughout the basement, and there are short sections of air-cell type asbestos pipe insulation present in several of them. There is a total of approximately 8 linear feet of these short sections present. These insulation sections are in moderate condition, but have high exposure and accessibility. There were no other sources of friable asbestos identified in this room.

Southeast Room

There are approximately 7 fittings present in this room which are insulated with asbestos-containing materials. These fittings are in good condition, they have high exposure and accessibility. However, they will be enclosed in a chase in the upcoming major remodel of the building. There were no other sources of friable asbestos material present in this room.

Clerk's Office

There is a linoleum flooring in this room which appeared suspicious when surveyed by Mr. Farley. Sample analysis of this flooring indicated that it did contain asbestos material (Appendix A; Sample W-103-MEN3).

There were approximately 120 square feet of this linoleum present in the room. This material is in good condition, but has high exposure and accessibility. There were no other sources of friable asbestos identified in the Clerk's office area.

All Other Building Areas

The only other source of potential suspicious material throughout the rest of the building was where ceiling tiles were found in the building. However, sample analysis of these tiles (Appendix A; Sample W-103-MEN7) indicated that they were completely free of asbestos materials. There were no other sources of friable asbestos identified throughout the rest of the building during our survey.

ASBESTOS ABATEMENT CONTROL PROGRAM RECOMMENDATIONS

Concern over exposure to asbestos fibers has increased dramatically in recent years. Direct links between asbestos exposure and the occurrence of asbestosis and mesothelioma have been established. Also, a clear relationship between the age at first exposure to asbestos and the probability of developing cancer has been determined. Consequently, the Environmental Protection Agency and OSHA have recommended that building owners of public and private buildings survey their buildings to determine if asbestos is present. If friable asbestos-containing materials are found in building, the building owner should take the following actions:

1. Inform all employees who might disturb the material of its presence.

2. Provide each custodial or maintenance employee with a copy of "A Guide for Reducing Asbestos Exposure."

3. Maintain accurate records related to asbestos location, sampling, analysis, amount, and exposure.

Because friable asbestos is present in the Newman A. Wood Building, it is recommended to take all of the actions above. I will provide all the needed documentation materials to the regulatory agencies and will also prepare all of the paperwork which the Church should maintain in the Wood's files. I will provide the Church with enough copies of "A Guide to Reducing Asbestos Exposure" to distribute to its maintenance personnel. If the Church desires, I will also assist it in making notification of the asbestos presence to any labor groups, should that become necessary.

The Environmental Protection Agency lists a number of factors which must be considered when assessing the need for corrective action related to friable asbestos containing materials. These factors concern the condition of the material and the potential for disturbance or erosion. The condition of the material is evaluated for deterioration, delamination, physical damage or water damage. The potential for disturbance or erosion of asbestos-containing materials is affected by its proximity to an air plenum or direct activity near the material, and possible change in a building's use. Following visual inspection of a building and completion of laboratory analysis, a course of action is detected. The course of action can be presented as a decision making tree (Figure 1), the suitability of various control alternatives (Table 1) can then be evaluated.

There are four possible alternative courses for handling the abatement of friable asbestos in public and private buildings:

- encapsulation
- enclosure
- removal and reinstallation
- deferred action and maintenance

The advantages and disadvantages of each action are presented in Table 3. Removal and reinsulation is the most permanent alternative, but it is also the most expensive. Removal of asbestos containing insulation requires sealing off the area where the removal is occurring and constructing a plenum room. Encapsulation is a lower cost alternative to removal. Encapsulation involves applying a penetrating liquid to the asbestos-containing material to seal it and prevent fiber release. Encapsulation also requires construction of containment barriers. Unfortunately, encapsulation does not solve the asbestos problem completely, because if the building is ever renovated or demolished the asbestos-containing material must first be removed using the appropriate safety procedures. Enclosure is an alternative which involves building air-tight barriers around asbestos-containing insulation materials to protect against fiber release. Enclosure is often a more expensive alternative than removal but like encapsulation it is not a permanent control method should renovation or demolition occur. Deferred action involves a program of maintenance personnel learning and implementing proper asbestos insulation maintenance, coupled with an air quality monitoring program. Deferred action is only recommended when asbestos containing materials are inaccessible, in good condition, and relatively small in coverage area.

The areas in the Marion L. Williams Building where asbestos was found were scored (evaluated) in relation to the criteria discussed above (Table 3). The EPA algorithm for asbestos containment evaluation was used to determine a recommended course of action for each area of the building.

Boiler Room

Because this building will be undergoing a major remodel, the friable asbestos identified in the building will need to be carefully removed. In the boiler room, the fittings and duct connecting cloth will need to be removed by a competent asbestos abatement contractor. These fittings and ducting material should be removed in a 1-day period for an estimated cost of $1,000.

Northeast Room

The floor tile in this room will also need to be removed prior to the major remodel which is soon to be conducted. There are approximately 200 square feet of floor tile which should be removed for approximately $1500, and be completed in approximately 1 day.

Since there is an existing new framing for the interior walls on top of the tile it may pose some problem in the removal process. That issue will need to be dealt with at the time of removal.

Tunnel

Again, because of the major remodel plans of the building, all the joint insulation present in the tunnel should be removed at the same time as other removal is completed throughout the building. These fittings should be removed using a modified glove-bag or total enclosure system. It should be removed for approximately $1,000 to $1,200 in a 1-2 day period.

Basement Rooms

The short sections of air-cell insulation going into the basement should also be removed during a complete removal project for the building. This is a fairly simple removal which can be conducted using glove bags. This process should be completed for approximately $100 in a couple of hours.

Southeast Room

Because the fittings in this area will be enclosed in a chase, they will not be required to be removed, but should probably be removed for future considerations, since they are enclosed. This is a fairly simple removal which combined with the removal in the other rooms in the basement and still cost less than $100 to complete.

Clerk's Office

The linoleum in this room which contains asbestos should also be removed during the complete removal project for the building prior to the major remodel. This insulation is in good condition, but will be required to be removed long with everything else in the building. This is a fairly simple process which should cost approximately $300 and take approximately 1 day to complete.

Any other asbestos materials present in the building which were not accessible during our survey, should also be removed during a removal project prior to the major remodel which will conducted in the building.

ABATEMENT PROJECT ACTIVITIES

We are prepared to complete project descriptions for the removal work recommended for this building. We will distribute the information to appropriate abatement contractors and, with the Church's approval, will award a contract to the qualified low bidder for the project.

Following project award, we will coordinate the project activities with the selected abatement contractor and will supervise all removal activities. This supervision will include extensive air monitoring and taking actions required to assure compliance with project specifications. At the completion of the project, we will certify the contractor's proper completion and release him/her from the project. We will provide a comprehensive project report to the Ward for filing purposes.

ESTIMATED PROJECT TIMEFRAME

1. Project survey and report: October, 1987
2. Preparation of project descriptions: October, 1987
   Distribution of project descriptions to contractors: October, 1987
4. Selection of project contractor: October, 1987
5. Project initiation: October, 1987
6. Project completion: November, 1987

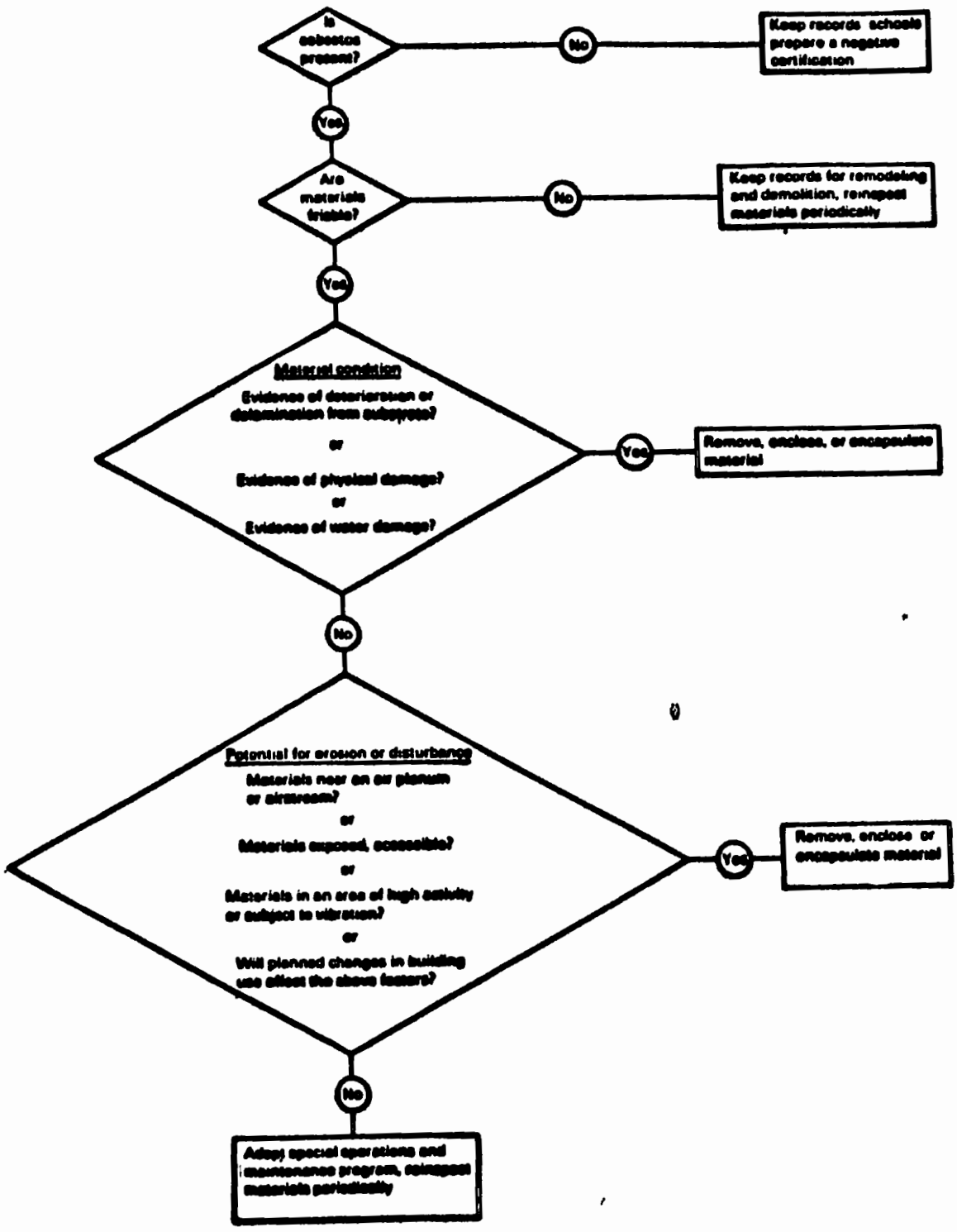
ESTIMATED PROJECT BUDGET

I	Professional Consulting Costs		
	A Pre-abatement survey		
	Professional time 9.5 hr @ $50/hr		$475.00
	Mileage 40 miles @ $.2		78.20
	Expenses		25.00
	Sample analysis		
	Bulk samples - 8 @ $25/ea		200.00
	Total		$778.20
	B Bid Specification		$200.00
	C Project supervision and testing		
	Professional time 24 hrs @ $35/hr		$840.00
	Sample analysis		
	Air samples 21 @ $20/ea		420.00
	Travel costs		400.00
	Total		$1,660.00
	TOTAL CONSULTING COSTS		$2,638.20
II	Removal Costs		
	A Boiler Room	$ 1,500 -	2,500
	B Basement Room	1,000 -	2,000
	C Tunnel	1,000 -	1,500
	D Rooms		100
	E Clerk's Office		500
TOTAL REMOVAL COSTS (CONTRACTOR)		$4,100 -	6,600

Table 1. Comparison of Various Asbestos Control Alternatives

Method	Advantages	Disadvantages	Appropriate applications	Inappropriate applications	General comments
Removal	Eliminates asbestos source Eliminates need for special operations and maintenance program	Replacement with substitute material may be necessary Porous surfaces also may require encapsulation Improper removal may raise fiber levels	Always	Never	Containment barriers needed Worker protection required Wet removal is required for all types of asbestos, (amosite will not absorb water or water with traditional wetting agents) Disposal may be a problem in some areas Unusual circumstances, complex surfaces, and the presence of utilities may require special removal techniques
Enclosure	Reduces exposure in the area outside the enclosure Initial costs may be lower than removal unless utilities need relocating or major changes Usually does not require replacement of material	Asbestos source remains and must be removed eventually Fiber release continues behind enclosure Special operations program required to control access to enclosure for maintenance and renovation Periodic reinspection required to check for damage Repair of damaged enclosure necessary Fibers released in dry form during construction of enclosure Long-term costs could be higher than removal	When materials need to be isolated from building occupants (e g exposed pipe) Disturbance or entry into enclosed area unlikely	Damaged or deteriorating materials causing rapid fiber release Water damage evident Damage or entry into enclosure likely Ceiling to be enclosed is low	Containment barriers needed Use of tools with HEPA-filtered vacuum attachments advisable Worker protection needed

Figure 1 Steps in Selecting a Course of Action for Asbestos Abatement



[a] A statement certifying that friable asbestos-containing materials are not present.

APPENDIX "A"

Date Reported: October 9, 1987

Date Received: October 2, 1987

Sample Code No.: W-103-MEN1 thru MEN8

Submitted By: Menan Wards 1 & 2

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

CLIENT: LDS Building Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification:
W-103-MEN1: Boiler room fitting
W-103-MEN2: Boiler room fitting
W-103-MEN3: Boiler room duct cloth
W-103-MEN4: Boiler room floor tile

Sample Identification Number	Percent & Type of Asbestos Present	Percent & Type of Other Fibrous Materials	Sample Appearance
W-103-MEN1	11% ± 3% Chrysotile	Mineral wool, fiberglass	Fiberglass w/mudded lagging
W-103-MEN2	6% ± 2% Amosite	Fiberglass, mineral wool	Off-white, powdery
W-103-MEN3	94% ± 2% Chrysotile	Wood fiber	Grey cloth
W-103-MEN4	None detected	Cellulose	Beige tile

Was sample homogenized: _X__ Yes ____ No

Method of Analysis: Polarized Light Microscopy (Olympus BH2 polarizing light microscope)

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis

Wayne Dorband
Authorized Signature

Wayne Dorband, PhD.
President

Snake River Associates, Inc.
1310 Vista, Suite 1A
Boise, Idaho 83705
208/336-4993

Date Reported: October 9, 1987

Date Received: October 2, 1987

Sample Code No: W-103-MEN1 thru MEN8

Submitted By: Menan Wards 1 & 2

CLIENT: LDS Building Services
3295 Elder- Suite 350
Boise, Idaho 83705

Sample Identification:
W-103-MEN5: Basement classroom floor tile
W-103-MEN6: Tunnel fitting
W-103-MEN7: All areas- ceiling tile
W-103-MEN8: Clerks Office- floor tile

Sample Identification Number	Percent & Type of Asbestos Present	Percent & Type of Other Fibrous Materials	Sample Appearance
W-103-MEN5	3% ± 2% Chrysotile	None	Grey tile
W-103-MEN6	1% ± 1% Amosite	Fiberglass	Off-white, powdery
W-103-MEN7	None detected	Wood fiber	Tan, pressed fiberous
W-103-MEN8	83% ± 3% Chrysotile	Cellulose	Mosaic tile w/white paper back

Was sample homogenized: _X__ Yes ____ No

Method of Analysis: Polarized Light Microscopy (Olympus BH2 polarizing light microscope)

Analyst: Deb Dorband

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis

Authorized Signature

Wayne Dorband, PhD.
President

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PHYSICAL FACILITIES DEPARTMENT
North America—Northwest
P O Box 15309
Boise Idaho 83715

23 September 1987

Wayne Dorband
Snake River Associates, Inc
1310 Vista, Suite 1A
Boise, Idaho 83705

Re Menan 1 and 2 Wards
Menan Idaho Stake
507-2638-75

Dear Wayne

Your firm has been selected to provide professional services for identifying asbestos at the referenced building Accordingly, this letter is your authorization to begin that work

In order to have access to the building located Main Street, Menan, Idaho, you will need to contact the Stake Physical Facilities Representative (PFR) The PFR will be responsible to see that you have access to the building A custodian will have keys to every area of the building, including mechanical rooms, attics, and crawl space The PFR is

Clyde R Jones
Rt #1, Box 45
Rigby, Idaho 83442
208-754-4782

If you are unable to contact the PFR, please call our Area Field Representative, Keith Chase, at (208) 529-4316 for assistance, or you may call the contract architect, Dixson-Watson Associates, P O Box 1101, Idaho Falls Idaho, 83403, (208) 522-4764

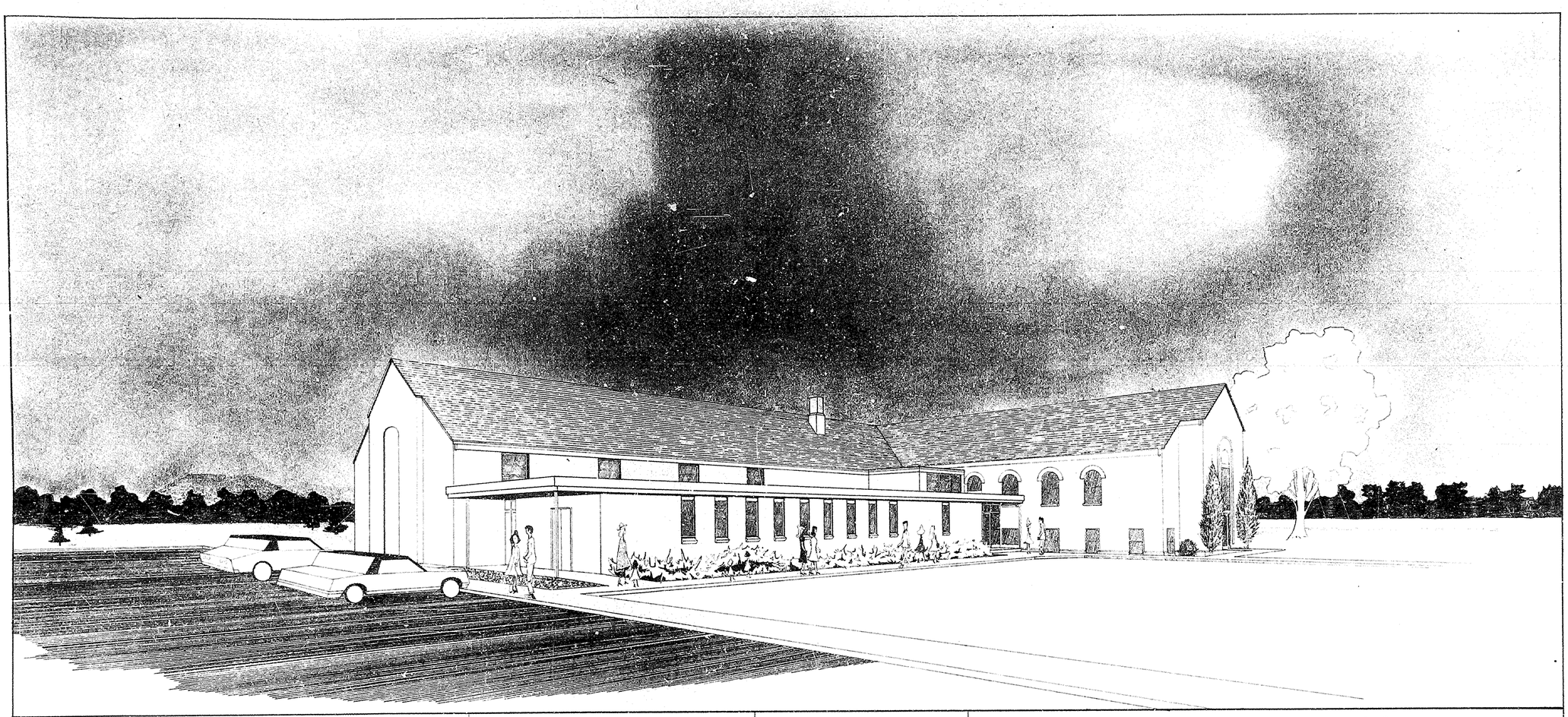
If you have any questions, please call me at (208) 342-2735

Sincerely,

Kent L Brough

Kent L Brough
Area Architect

KLB cm



REFERENCE MARKS

A1 — DETAIL MARK
A0 — SHEET NUMBER

DETAIL REFERENCE

A1 — DIRECTION, DETAIL MARK
A0 — CUT LINE, SHEET NUMBER

SECTION REFERENCE

A1 — DIRECTION, ELEVATION MARK
A0 — SHEET NUMBER

ELEVATION REFERENCE

1 — DOOR NUMBER

DOOR REFERENCE

1 — FOLDING PARTITION NUMBER

FOLDING PARTITION REFERENCE

A — WINDOW MARK

WINDOW REFERENCE

101 — ROOM NUMBER

ROOM NUMBER REFERENCE

ELEV. 100'-0"
TOP OF FLOOR

ELEVATION MARK

FR1 — NO. OF UNIT & DESSCRIPTION (SEE ABBREVIATIONS)
S-2 — STRUCTURAL SCHEDULE SHEET NO.

STRUCTURAL REFERENCE

STRUCTURAL SCHEDULE ABBREVIATIONS

F S-1.7 — FOOTING
FR S-1.1 — FOUNDATION WALL REINFORCING
DE S-1.1 — REINFORCING DOWELL
CS S-1.1 — CONCRETE SLAB
WP S-1.2 — WALL BEARING PLATE
LP S-1.2 — LEDGER PLATE
B S-1.2 — BEAM
RB S-1.4 — MASONRY BOND BEAM
L S-1.4 — LINTEL

KEY TO MATERIALS

- EARTH
- GRAVEL
- CONCRETE
- MASONRY
- TRAVERTINE
- FRAME WALL
- ROUGH WOOD
- PLYWOOD
- FINISH WOOD
- METAL
- PLASTER
- GYPSUM BOARD
- ACOUSTIC TILE
- CERAMIC TILE
- RIGID INSULATION
- BATT INSULATION
- GLASS

KEY OF SYMBOLS

- POWER LINE
- E — ELECTRICAL SERVICE
- S — SEWER & WASTE LINE
- HW — HOT WATER LINE
- CW — COLD WATER LINE
- PROPERTY LINE
- CENTER LINE
- 99.99 — EXISTING ELEVATION LOCATION
- 99.00 — FINISH ELEVATION LOCATION

ABBREVIATIONS

B.M.	BENCH MARK
C.B.	CHALK BOARD
C.C.	CENTER TO CENTER
C.I.	CAST IRON
C.O.	CLEAN OUT
D.F.	DRINKING FOUNTAIN
F.D.	FLOOR DRAIN
G.I.	GALVANIZED IRON
H.B.	HOSE BIB
M.O.	MASONRY OPENING
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
T.B.	TACK BOARD
W.D.	WINDOW DIMENSION
℄	CENTER LINE
REG.	REGLET
GYP. BD.	GYPSUM BOARD
N.T.S.	NOT TO SCALE
E.W.C.	ELECTRIC WATER COOLER
I.D.	INSIDE DIAMETER
FES.	FIRE EXTINGUISHER CABINET
D.S.	DOWNSPOUT

INDEX TO DRAWINGS

SHEET	TITLE
A 1	PLOT PLAN
A 2	BASEMENT FLOOR PLAN
A 3	MAIN FLOOR PLAN
A 4	CLERESTORY PLAN & DETAILS
A 5	ELEVATIONS - BUILDING LETTERS DETAILS
A 6	DOOR SCHEDULE & DETAILS
A 7	WINDOW SCHEDULE & DETAILS
A 8	3/4" SECTIONS
A 9	3/4" SECTIONS
A 10	3/4" SECTIONS
A 11	3/4" SECTIONS & DETAILS
A 12	1/8" BUILDING SECTIONS
A 13	REFLECTED CEILING PLAN & DETAILS
A 14	ENLARGED KITCHEN & REST ROOMS PLANS & DETAILS
A 15	INTERIOR ELEVATIONS & MILLWORK DETAILS
A 16	ENLARGED LIBRARY PLAN & ELEVATIONS & DETAILS
A 17	LIBRARY MILLWORK DETAILS
A 18	CULTURAL HALL INTERIOR ELEVATIONS
A 19	BASEMENT FINISH & FURNISHING PLAN
A 20	MAIN FLOOR FINISH & FURNISHING PLAN

SHEET	TITLE
S	FOOTING & FOUNDATION PLAN & SCHEDULES
S-2	ROOF FRAMING PLAN & SCHEDULES
S-3	STRUCTURAL DETAILS
S-4	STRUCTURAL DETAILS & SCHEDULES
S-5	GLU-LAM ARCH & TRUSSES RAFTER DETAILS
S-6	MASONRY WALL REINFORCING & BOND BEAM LAYOUT
S-7	SUSPENDED CEILING FRAMING PLAN & DETAILS
M-1	PLOT PLAN & SCHEDULES
M-2	BASEMENT MECHANICAL PLAN
M-3	MAIN FLOOR MECHANICAL PLAN
M-4	FAN ROOM AND BOILER ROOM PLANS
E-1	PLOT PLAN & SCHEDULES
E-2	MAIN LEVEL ELECTRICAL PLAN
E-3	BASEMENT LEVEL ELECTRICAL PLAN
C-1	SOUND PLAN

136C68

CLASS C CONSTRUCTION
FOR FIRE INSURANCE ONLY

APPROVED:
CHECKED:
DRAWN:

ADDITION & REMODELING OF MEMORY GROVE WARDS MEETINGHOUSE FOR THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
MEMORY GROVE IDAHO

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

SHEET NUMBER
TITLE

PROJECT NUMBER
05-507-2638-A

0

EXISTING IRRIGATION DITCH TO REMAIN

EXISTING LIGHT POLE

EXISTING MAILBOX

EXISTING CONCRETE SLAB

EXISTING ENTRANCE AREA

REMOVE EXISTING BUILDING

EXISTING IRRIGATION WELL

REMOVE EXISTING 6" TREE

REMOVE EXISTING SMALL TREE

EXISTING BUILDING MAIN FLOOR EL. 99.80
BASEMENT FLOOR EL. 90.80

CAP EXISTING WELL IN BASEMENT

EXISTING ELECTRICAL SERVICE TO BE REMOVED

EXISTING CONCRETE

REMOVE EXISTING TREE

FILL & PLANT NEW LAWN

SEPTIC TANK

REMOVE EXISTING DRIVEWAY

EXISTING SIDEWALK

EXISTING PARKING TO BE RE-ESTABLISHED WITH NEW SURFACING

W MAIN

CENTER LINE OF STREET

EXISTING GRADE 5.0
PROPOSED LOCATION OF GRADE
& PROPOSED GRADE

SITE PLAN SCALE 1" = 30'

VICINITY MAP

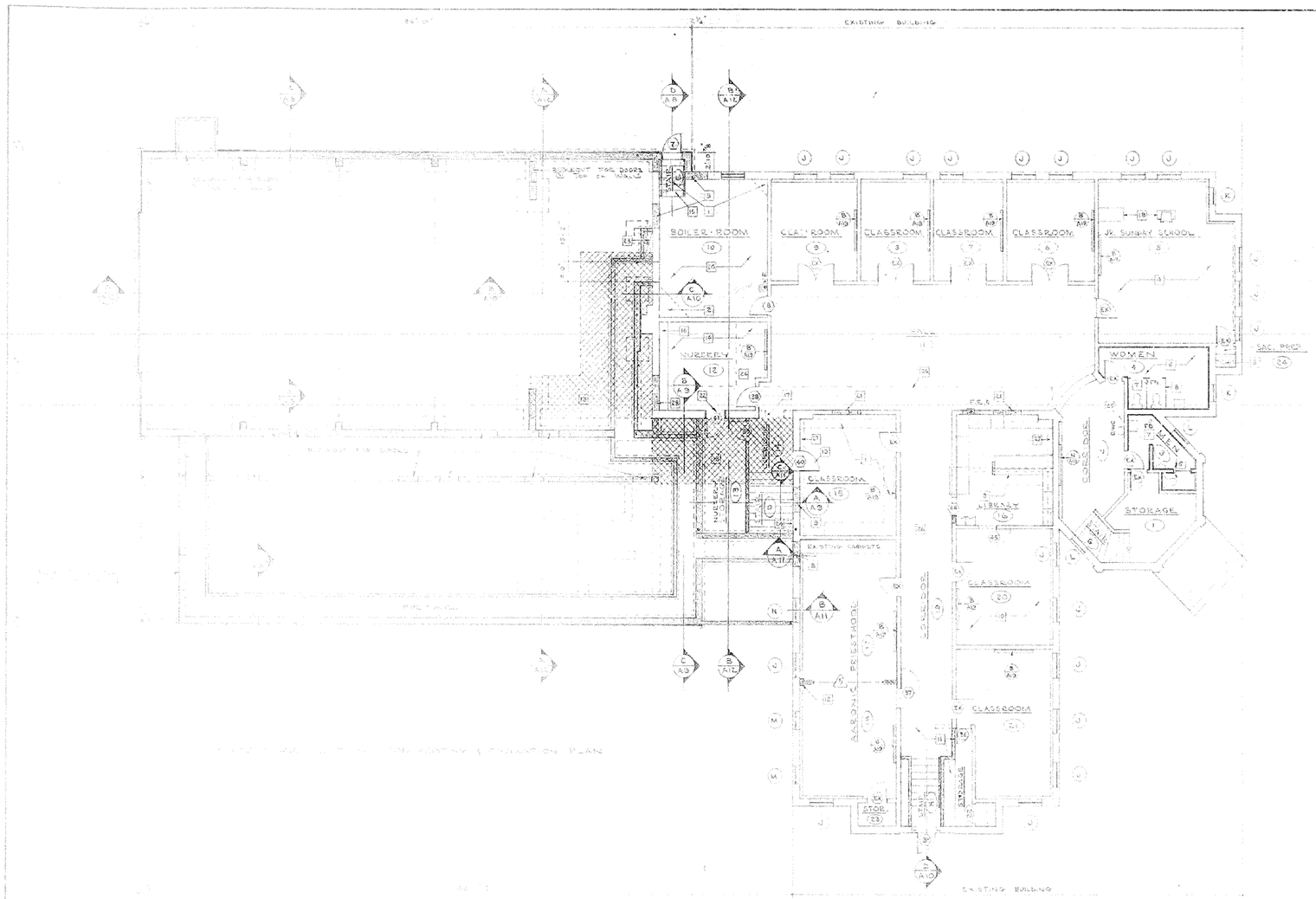
TYPICAL CURB DET.

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

APPROVED
CHECKED
DRAWN

PROJECT NUMBER

SHEET NUMBER
A1 OF 20



BASEMENT FLOOR PLAN

SCALE. 1/8" = 1'-0"

NOTES (BASEMENT)

1. REMOVE EXISTING CABINETS.
2. REMOVE EXISTING FIREPLACE & PATCH AS REQUIRED FOR NEW BRICKING TO ENTER CHIMNEY FLUE.
3. REMOVE EXISTING WINDOW AND FILL VOID WITH CONCRETE MIX/OR CONCRETE & BRICK AS REQUIRED TO MATCH EXISTING CONSTRUCTION
4. REMOVE EXISTING WOOD LATH & PLASTER CEILING AND PROVIDE NEW ACOUSTIC TILE CEILING OVER 5/8" GYPSUM BOARD BLOCK BETWEEN EXISTING JOISTS FOR WALL ABOVE W/ FULL DEPTH BLOCKING @ 2'-0" O.C.
5. REMOVE EXISTING MILLWORK AND INSTALL NEW CABINET FURNISH ON SINK & CABINET AS PER DETAILS SHEET A-4 & SHEET M-2

   REMOVE EXIST. 24" FIRE EXTINGUISHER TYP. AND PROVIDE NEW RECESS TAKING TILE FLOOR, CERAMIC BASE AND 4'-0" CERAMIC TILE W/ KNOT. PATCH EXISTING PLASTER AND PROVIDE CABINET UNDER WASH BOWL AS SHOWN FOR WHEELCHAIR
7. PROVIDE NEW FLOOR SINK & CONNECT TO NEW WASTE LINE AS SHOWN ON SHEET M-2
8. PROVIDE NEW METAL TOILET PARTITIONS - SEE SPECIFICATIONS
9. REMOVE EXISTING LIBRARY CABINETS AND PROVIDE NEW LIBRARY CABINETS AS DETAILED ON SHEET A-4 AND A-7.
10. REMOVE EXISTING FLOOR SLAB & REPLACE WITH NEW 4" CONCRETE SLAB W/ 6 BARS @ 15'-0" O.C. EACH WAY, SEE NOTE 6 BELOW.
11. REMOVE EXISTING DOOR, WALLS & WINDOW AND PROVIDE NEW EXIT STAIRWAY AS DETAILED ON SHEET A-10. PROVIDE NEW DOOR TO STAIRWAY (2) AND NEW STORAGE CABINET AS DETAILED ON SHEET A-7. REMOVE DOOR TO EXISTING STORAGE ROOM, REMOVE JAMB & PATCH WITH NEW PLASTER.
12. PROVIDE NEW BUILDING PARTITION - SEE SPECIFICATIONS (FIRE WALL PART B").
13. REMOVAL AND REMOVAL OF EXISTING BUILDING INSULATION AND ROOF MATERIALS AND/OR SOIL. NOTES ON SHEET S-1 FOR PLACING OF FOOTING ON UNDISTURBED SOIL.
14. REMOVE EXISTING BOILER, PUMP ETC. AND EXISTING FLOOR SLAB & PROVIDE NEW 6" CONCRETE SLAB W/ 8 BARS @ 8'-0" O.C. EACH WAY, PROVIDE WATER STOP AS NOTED (SEE NOTE 6 BELOW), STRIP EXISTING CEILING WITH 1x3 @ 16" O.C. & INSTALL NEW ACOUSTIC TILE OVER 5/8" GYPSUM BOARD. PATCH EXISTING PLASTER WALLS.
15. REMOVE EXISTING WALLS AND PROVIDE NEW EXIT STAIRWAY AS DETAILED ON SHEET A-8, ENCASE I.P. STEEL PIPE WITH 2" BRICK OR STUCCO WALL.
16. SEE SHEET A-5 FOR STORAGE CABINET DETAILS.
17. REMOVE EXIST. DOOR AND WIDEN TO PROVIDE NEW OPENING. (SEE NOTE 6 BELOW)
18. SEE SHEET A-3 FOR LIVING SUNDAY SCHOOL FURNITURE & ENLARGED THEIR DETAILS.
19. REMOVE EXISTING DOOR & FRAME WITH GLASS PANEL TO WITHIN EAST REMOVE EXIST. DOOR TO CHANGE SWING AS SHOWN ON PLAN.
20. PATCH OPENING IN WALL WITH SOLID MASONRY.
21. REMOVE EXISTING METAL WINDOW & FILL WITH CONCRETE BLOCK & PLASTER.
22. REMOVE EXISTING WALL AND PROVIDE NEW DOOR WAY TRIMMER.
23. RETURN AIR CAPTION BOX, TO LEAK USING DIMENSIONS.
24. REMOVE EXISTING CHIMNEY & FILL FLUE WITH SOLID MASONRY.
25. NEW ELECTRIC WATER COOLER - SEE SHEET M-1 & M-3
26. FURR DOWN EXISTING NEW EXIT WOOD STAIR EXISTING CEILINGS WITH 1x3 WOOD STRIPS @ 16" O.C. AND COVER WITH 5/8" GYPSUM BOARD. APPLY ACOUSTIC TILE TO GYPSUM BOARD IN TILE SPECIFICATIONS.
27. FURR DOWN ANGLING SOFFIT TO VERTICAL SURFACES.
28. FILL UP OPENING IN FOUNDATION & BASEMENT WALL WITH CONCRETE.

GENERAL REMODELING NOTES (BASEMENT)

1. ALL EXISTING CLASSROOMS, STORE DOORS, WALLS IN JUNIOR SUNDAY SCHOOL AND ADJACENT TOILET ROOM TO BE PAINTED WITH NEW ACOUSTIC TILE CEILING.
2. IN ALL ROOMS WHERE REMODELING NECESSITATES PATCHING OF PLASTERED WALLS, ADDITION OF NEW WALLS, CLOSING OF NEW WALLS TO EXISTING WALLS, REMOVING OF FIXTURES OR EQUIPMENT, ETC., ALL WALLS IN THE ROOM SHALL BE PATCHED TO MATCH EXISTING OR REPAINTED, AS DIRECTED BY THE ARCHITECT, TO GIVE FINISHED APPEARANCE USING THE FOLLOWING TECHNIQUE: TAPE, TEXTURING OR SAND FINISH PLASTER WHERE EXISTING WALLS ARE PLASTERED WITH 3/4" PLASTER.
3. THE GENERAL CONTRACTOR SHALL INSURE THE CONDITION AND OPERATION OF ALL EXISTING DOORS IN ANY DOORS FOUND DEFECTIVE SHALL BE REPAIRED. ANY DOORS AND/OR HARDWARE FOUND DEFECTIVE SHALL BE REPAIRED. ANY DOORS AND/OR HARDWARE NOT REPAIRABLE SHALL BE REPLACED WITH NEW TO MATCH EXISTING OR AS DIRECTED BY THE ARCHITECT. COST TO OWNER, INSTALL NEW DOOR STOP FOR ALL EXIST'G DOORS.
4. ALL EXISTING WOOD WINDOWS ARE TO BE REMOVED AND REPLACED WITH NEW ALUMINUM WINDOWS AS DETAILED & SPECIFIED ON SHEET A-7.
5. REMOVE ALL EXISTING BASEBOARDS AND REPLACE WITH NEW CONFIGURATION CANVAS & TRIM BOARDS AS SHOWN ON THE PLAN.
6. REMOVE EXISTING CONCRETE, PATCH AND REPAIR WORK, AND PATCH WORK TO MATCH EXISTING.
7. CONTRACTOR SHALL INSPECT THE CONDITIONS OF EXISTING RING AND SHALL SHORE UP ALL AREAS WHERE EXISTING FOOTING ARE DISCOVERED TO BE WORKED OUT. CONSULT WITH BUILDING.
8. NOTE: WITH WHERE I REFER POUR OR PLACE AGAINST EXISTING CONCRETE OR PREVIOUS POUR, JOINT SHALL BE THOROUGHLY CLEAN AND ROUGH, THEN TREATED WITH A BONDING GROUT, JOINT WORK ORDERING IN STRICT ACCORDANCE WITH MANUFACTURES RECOMMENDED PROCEDURE AND UNDER THE SUPERVISION OF ONE EMPLOYED AS DIRECTED BY THE ARCHITECT.
9. REMOVE EXISTING TRIM CAP & PATCH WALLS TO MATCH EXISTING. INSTALL NEW CAPS TO AT ADJUST TO SUIT WINDOWS USED IN WORK AS DETAILED ON SHEET A-7 & ELEVATED ON SHEET A-1.

136070

APPROVED		REMODELING & ADDITIONS TO MORMON TAB & MEMORIAL BLDG. FOR THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS MENAN, IDAHO	SHEET NUMBER A2 OF 20
CHECKED			
DRAWN		HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	

PROJECT NUMBER

MAIN FLOOR PLAN

SCALE 1/8" = 1'-0"

NOTES (MAIN FLOOR)

1. REMOVE EXISTING PLATFORM, HANDRAIL, STEPS AND ALL PARTITIONS. (SEE PARTITIONS, SEE SHEETS A5, A6, A8 AND A9.)
2. REMOVE EXISTING STAIR AND PARTITION AS INDICATED. (SEE PLAN BELOW)
3. REMOVE EXISTING WINDOW AND INFILL WITH CONCRETE BLOCK. (SEE WALL BELOW)
4. SUSTAIN NEW ALIGNING FRAMING FROM EXISTING FRAMING WITH (2) HANGERS EA. 2"x10"x6" SEE SHEET A4 FOR ADDITIONAL FRAMING AND FOR FRAMING AT CURVED BAY.
5. REMOVE EXISTING ROOFING AND FLASHING AS REQUIRED FOR NEW ROOF FRAMING AND NEW PARTITIONS AS INDICATED. (SEE SHEET A4)
6. NEW STEPS AS ABOVE. (SEE SHEET A7)
7. FOR MISCELLANEOUS FRAMING DETAILS, SEE SHEET A4.
8. NEW CONCRETE SLAB AND FOOTING. (SEE SHEET A4)
9. NEW CONCRETE BLOCK WALL AND FOOTING. (SEE SHEET A4)
10. EXISTING CONCRETE BLOCK WALL TO REMAIN. (SEE SHEET A4)
11. EXISTING CONCRETE BLOCK WALL TO BE REMOVED AS INDICATED. (SEE SHEET A4)
12. NEW CONCRETE BLOCK WALL AND FOOTING. (SEE SHEET A4)
13. NEW BRICK WITH CONCRETE BLOCK BACK UP WALL CONSTRUCTION. (SEE SHEET A4)
14. REMOVE EXISTING WINDOW AND INFILL WITH CONCRETE BLOCK. (SEE SHEET A4)
15. NEW STEEL LINTEL OVER OPENING. (SEE SHEET A4)
16. NEW CONCRETE BLOCK WALL. (SEE SHEET A4)
17. NEW CONCRETE BLOCK WALL AND FOOTING. (SEE SHEET A4)
18. NEW CONCRETE BLOCK WALL AND FOOTING. (SEE SHEET A4)
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100. NEW CONCRETE BLOCK WALL AND FOOTING. (SEE SHEET A4)

GENERAL NOTES (MAIN FLOOR)

WALL FINISH: ALL EXISTING WALLS TO BE PAINTED. NEW WALLS TO BE PAINTED. CEILING: ALL EXISTING CEILINGS TO BE PAINTED. NEW CEILINGS TO BE PAINTED. FLOOR: ALL EXISTING FLOORS TO BE PAINTED. NEW FLOORS TO BE PAINTED. BASE: ALL EXISTING BASE TO BE PAINTED. NEW BASE TO BE PAINTED. DOORS: ALL EXISTING DOORS TO BE PAINTED. NEW DOORS TO BE PAINTED. WINDOWS: ALL EXISTING WINDOWS TO BE PAINTED. NEW WINDOWS TO BE PAINTED. TRIM: ALL EXISTING TRIM TO BE PAINTED. NEW TRIM TO BE PAINTED.

SEATING

FOYER/FOYER	36
CHAPEL	200
LOUNGE	90
OVERFLOW	114
CULTURAL HALL	142

EXISTING WALL

NEW STUD WALL CONSTRUCTION

NEW CONCRETE BLOCK WALL CONSTRUCTION

NEW BRICK WITH CONCRETE BLOCK BACK UP WALL CONSTRUCTION

DATA SCHEDULE

WARD OR BRANCH	WARD MEMBERSHIP	SAC MEETING ATTENDANCE	SUNDAY SCHOOL ATTENDANCE
MENAN 1 ST	481	112	
MENAN 2 ND	454	188	

FLOOR LEVEL	TEACHING AREAS: CLASS	ASS	OFFICE	NURSERY	KITCHEN	CUL. HALL	FOYER SOC.	ADD. FOLLOWING:	AREA IN SQUARE FEET: EXISTING	NEW ADDITION	REMODELING
BASEMENT											
MAIN FLOOR			2	1	1						
2 ND FLOOR											
SUB TOTAL	13	1	6								
EAST WING	3										

136.71

APPROVED		ADDITIONS & REMODELING TO MENAN 1 & 2 WARD MEETINGHOUSE, MENAN STAKE, THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, MENAN, IDAHO
CHECKED		SHEET NUMBER A3 OF 20
DRAWN		HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO

PROJECT NUMBER

EXISTING BUILDING

NOTE: SUPPORT 2x6 JOISTS WITH 2x2 HANGERS @ 4'-0" O.C. ON EACH JOIST. NAIL HANGERS TO EXISTING TRUSSED RAFTERS AND 2x4 JOISTS WITH 3 12d NAILS IN EACH.

2 x 4 CONT. CROSS BRACING @ 8'-0" O.C.

FRESH AIR LOUVERS

SUPPORT FOR FOLDING PARTITION SEE DETAIL

2x8 LEDGER PLATE WITH ½" ϕ EXPANSION BOLTS @ 2'-8" O.C.

2x8 LEDGER PLATE WITH ½" ϕ EXPANSION BOLTS @ 2'-8" O.C.

MECHANICAL EQUIP. ROOM

2x6 JOISTS @ 16" O.C. CLGS @ BOTTOM OF JOISTS

1 x 3 CROSS BRIDGING

2x8 JOISTS @ 16" O.C. CLGS @ BOT OF JOISTS

2x8 JOISTS @ 16" O.C. CLGS @ BOT OF JOISTS

2x8 LEDGER PLATE WITH ½" ϕ EXPANSION BOLTS @ 2'-8" O.C.

FOYER (20)

EXISTING ROOF DRAIN

EXISTING BUILT UP ROOF - NOTE: COVER WITH A MOPPING OF HOT ASPHALT AND EMBED THESE IN ROOF AT GRADE AT THE RATE OF 400 # PER SQUARE

CONCRETE SPLASH BLOCK

CHAPEL (13)

ORGAN CHAMBER (20)

BUILD NEW STEEL WALLS TO EXISTING ROOF. COVER WALLS & CEILING (EXCEPT MASONRY WALLS) WITH ⅜" GYPSUM LATH AND ½" PLASTER. COVER MASONRY WALLS WITH 1" HEXAGONAL 20 GAGE GALVANIZED STUCCO MESH PLASTER. COVER EAST FLOOR WITH ⅜" PLYWOOD. PROVIDE & INSTALL NEW 2'-6" x 6'-6" PASTE DOOR FROM STORAGE (15) TO ORGAN CHAMBER (20) - SEE SPECIFICATIONS.

EXISTING BUILDING

CLERESTORY PLAN

SCALE ⅛" = 1'-0"

EXISTING TRUSSED RAFTER

2 x 2 HANGERS @ 4'-0" O.C. CONNECTED TO ROOFING T & G.

EAST PLASTER

2x4 JOISTS @ 16" O.C.

2 CONT. 2 x 4 (FLAT) CROSS BRACING @ 8'-0" O.C.

½" ϕ EXPANSION BOLT @ 4'-0" O.C.

PLASTER WITH ⅜" GYPSUM BOARD

SECTION

SCALE ⅜" = 1'-0"

DOUBLE SUPPORTING STRINGER 3-2" x 10" (PREFUSION JOINTS CORRELATED)

DOUBLE 2 x 8 CEILING JOISTS CONT.

DOUBLE 2 x 8 CEILING JOISTS CONT.

ACOUSTIC TILE FURR ⅝" OPTIMA BOARD

SECTION THRU FOLDING STAIRWAY

SCALE ¾" = 1'-0"

RETURN EXIT TO STAGE

4" x 6" STEEL ANGLE (TYP.) WELD TO ½" ϕ x 4" LAG BOLTS

4" x 6" ANGLE WELD TO WALL

2" x 6" BAR STOCK

2" x 6" BAR STOCK WELD TO WALL

STEEL LADDER C

SCALE ¾" = 1'-0"

STEEL LADDER D

SCALE ¾" = 1'-0"

COAT RACK E

SCALE ⅜" = 1'-0"

CONT RACK F

SCALE ⅜" = 1'-0"

COAT RACK G

SCALE ⅜" = 1'-0"

APPROVED

CHECKED

DRAWN

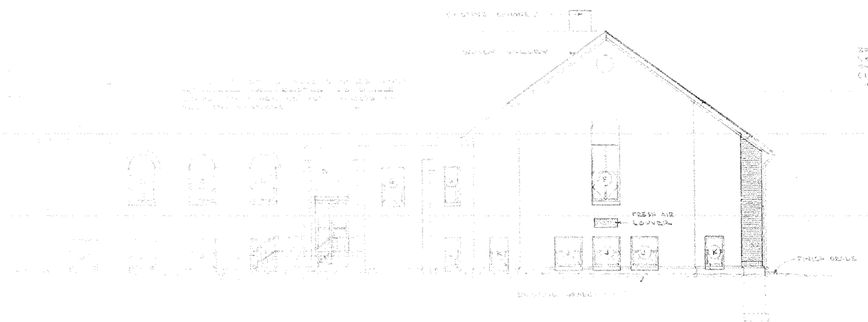
REMODELING OF MEDICAL & MEN'S AND WARDS WEST WING OF ... HOSPITAL

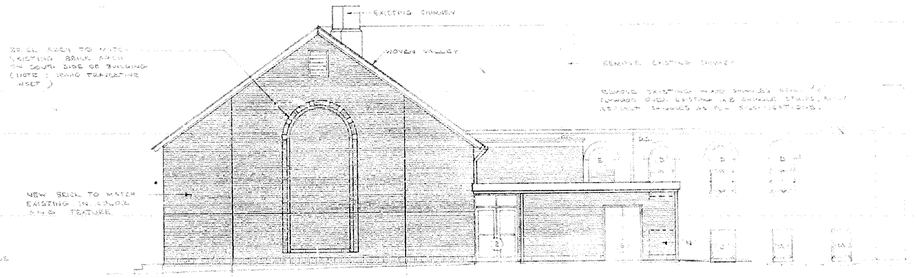
HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

SHEET NUMBER A4 OF 20

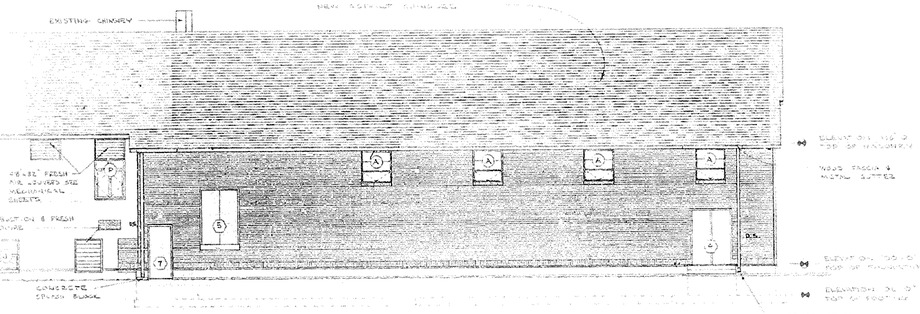
136072

PROJECT NUMBER

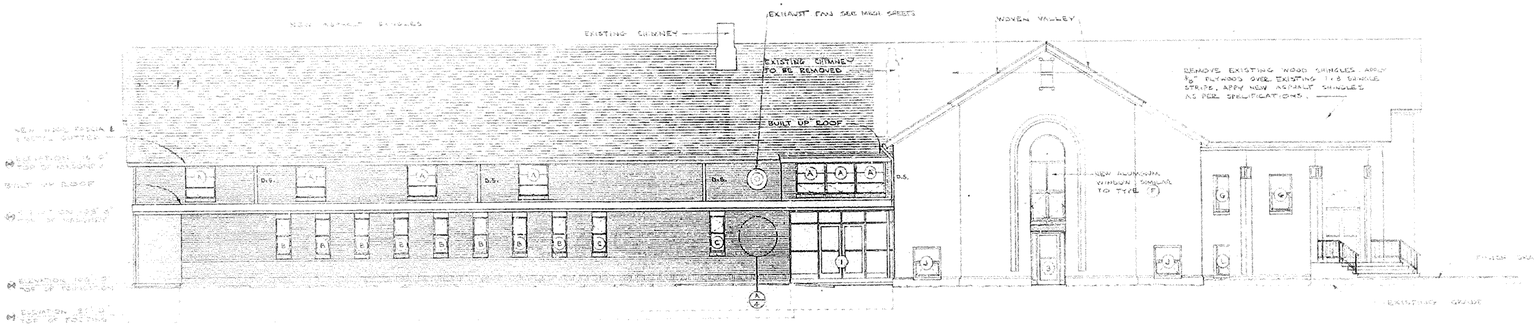




WEST ELEVATION



NORTH ELEVATION SCALE 1/8" = 1'-0"



SOUTH ELEVATION SCALE 1/8" = 1'-0"

NOTE : REMOVE ALL EXISTING WOOD WINDOWS AND REPLACE WITH NEW ALUMINUM WINDOWS

MOULDING DETAIL

136073

ADDITION & REMODELING OF MEETING HOUSE & CHAPEL FOR NAMPA WEST WARD MEETING HOUSE, 10 WEST 12TH STREET, THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS NAMPA, IDAHO

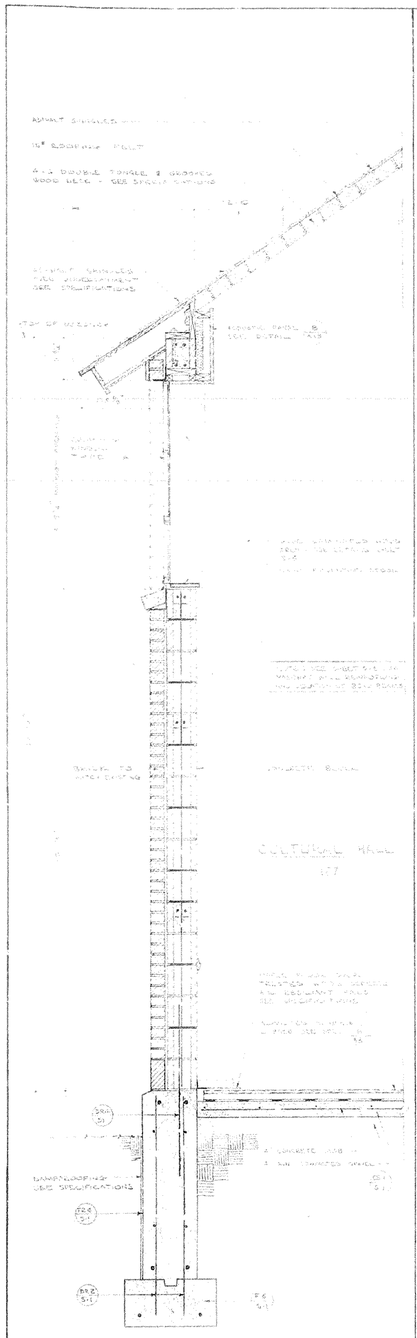
HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS IDAHO

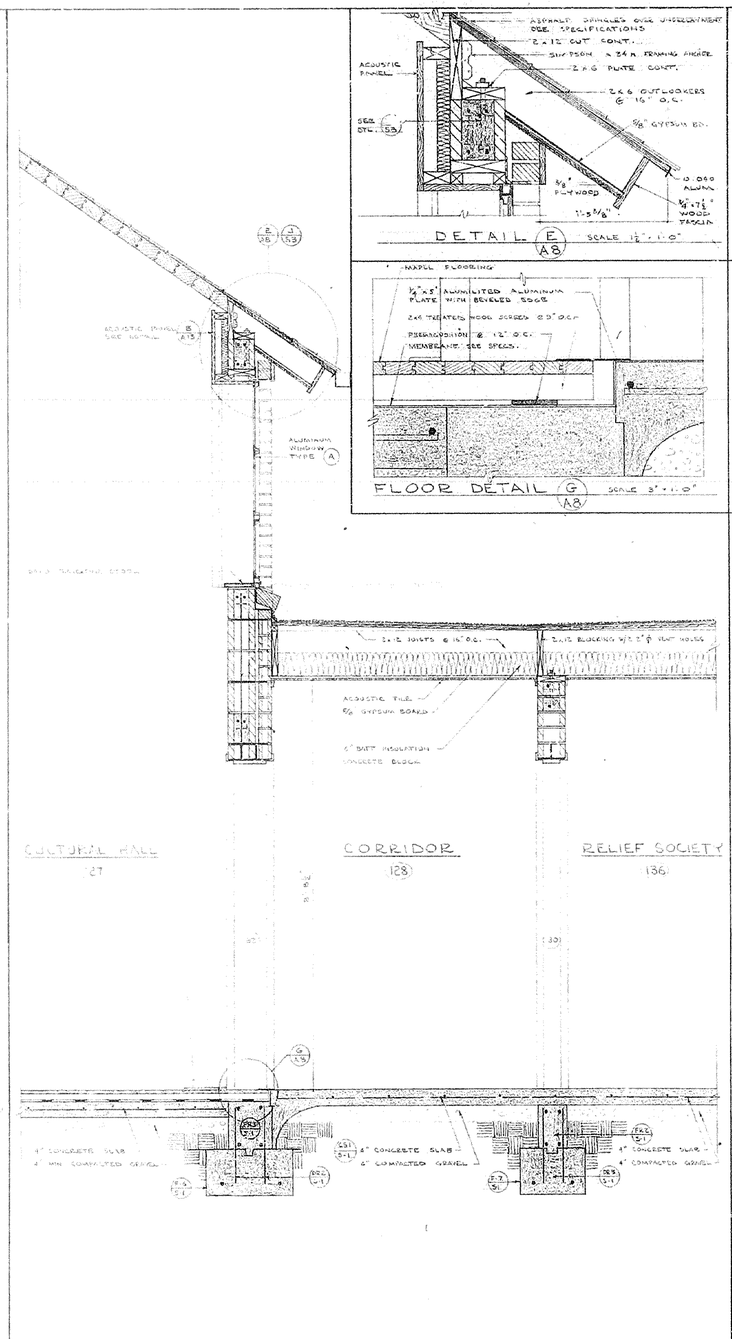
APPROVED
CHECKED
DRAWN

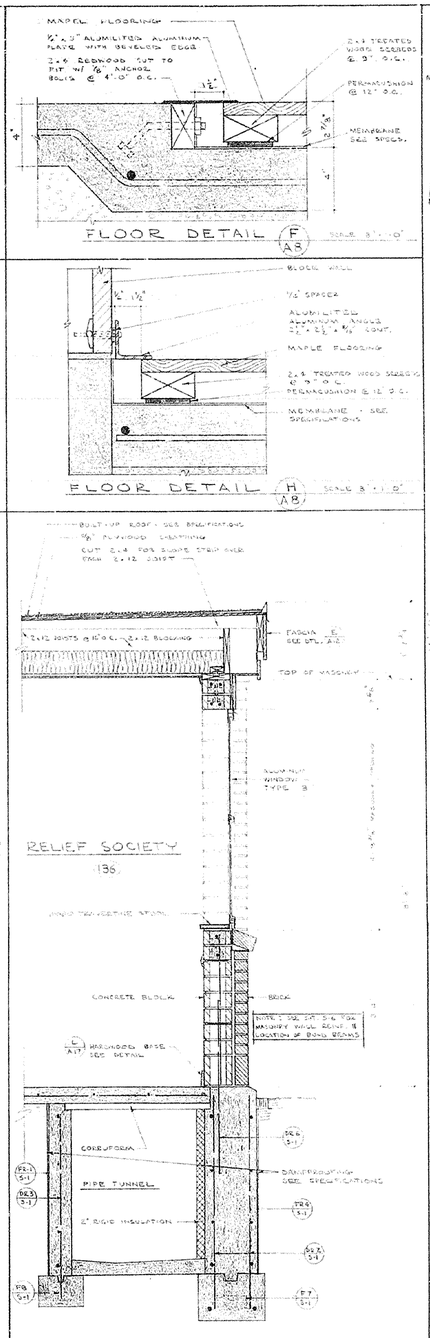
SHEET NUMBER A5 OF 20

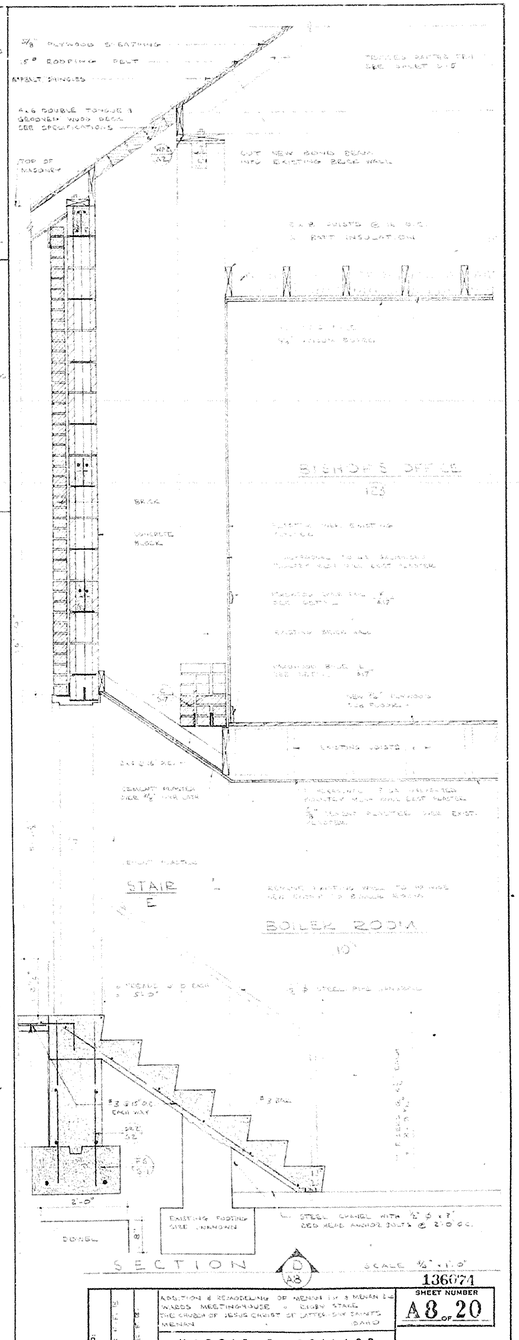
PROJECT NUMBER

SCALE 1/8"=1'-0"









136071

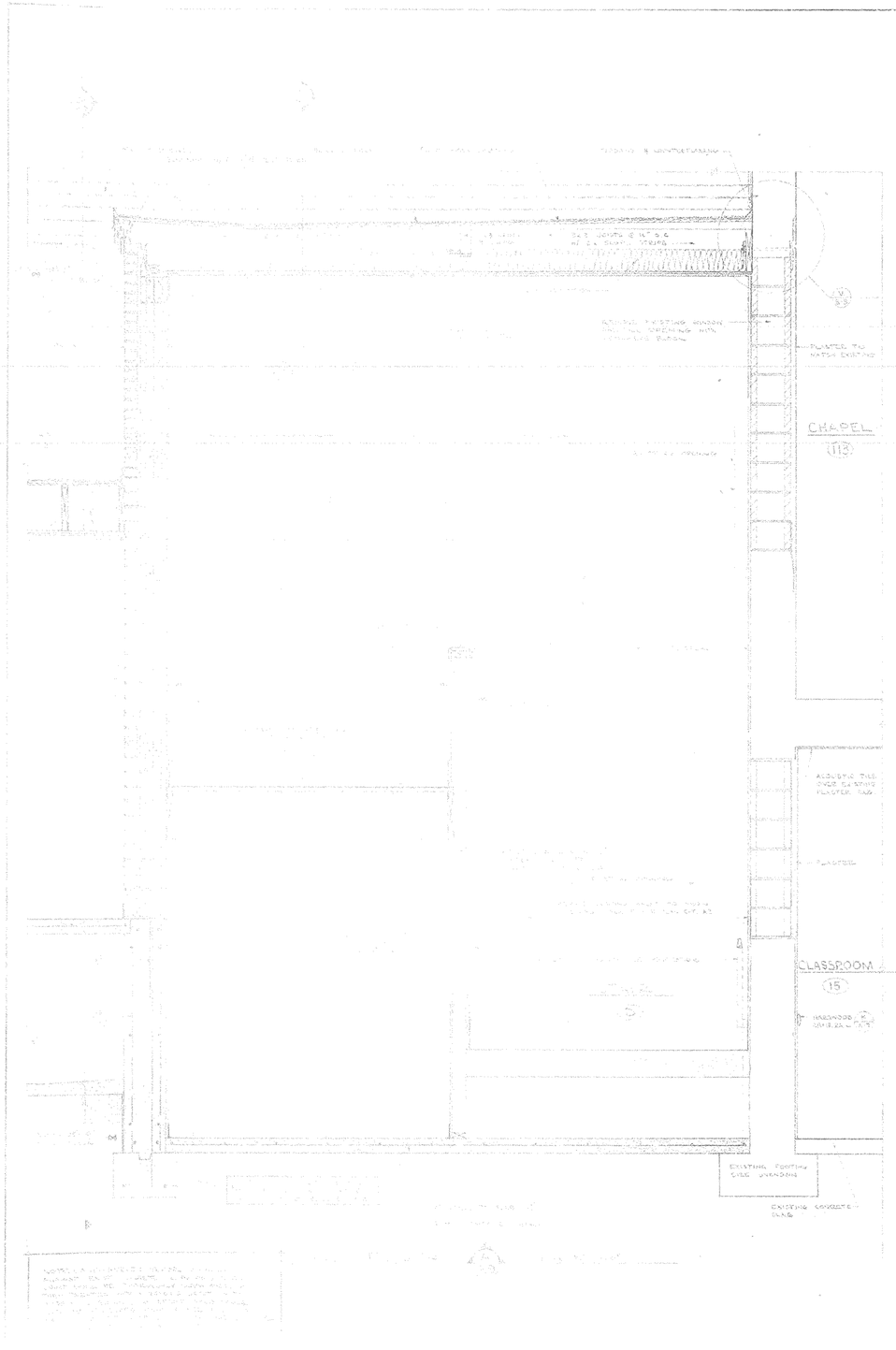
SHEET NUMBER A8 OF 20

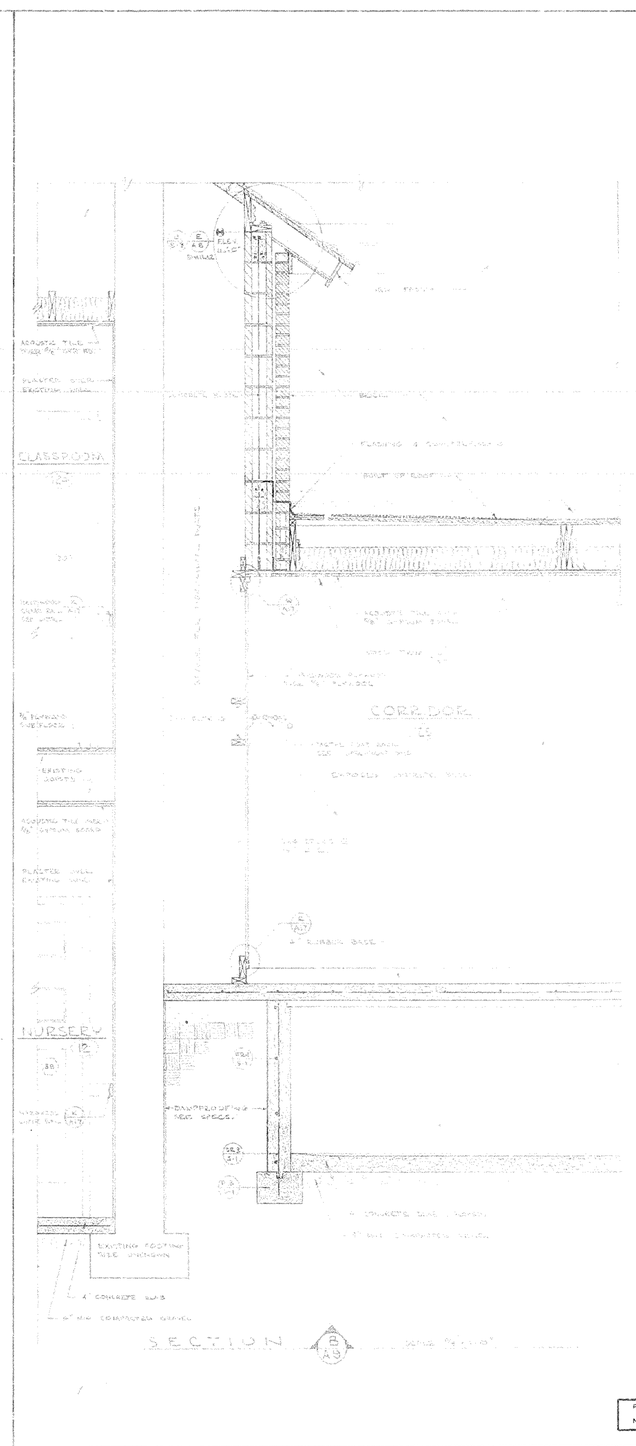
ADDITION & REMODELING OF MENAN LDS & MENAN LDS WARD MEETINGHOUSE, ELDER STAKE, THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS MENAN IDAHO

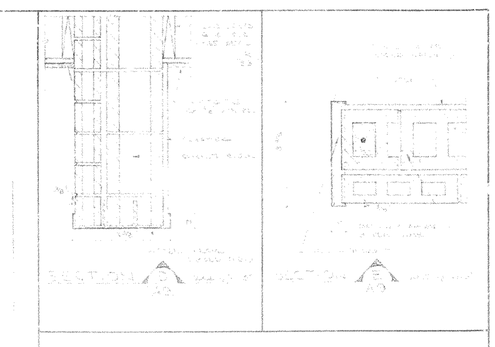
HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO P.E. L.S. IDAHO

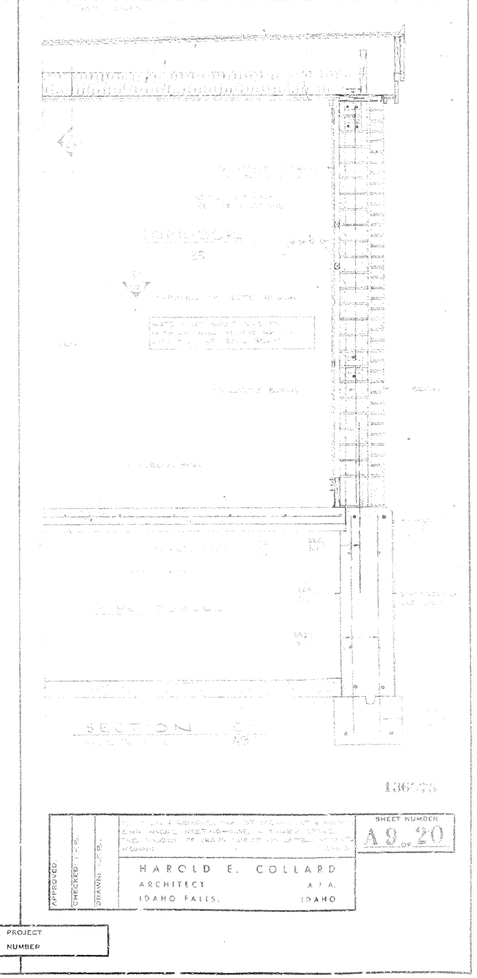
APPROVED
CHECKED
DRAWN

PROJECT NUMBER









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HAROLD E. COLLARD
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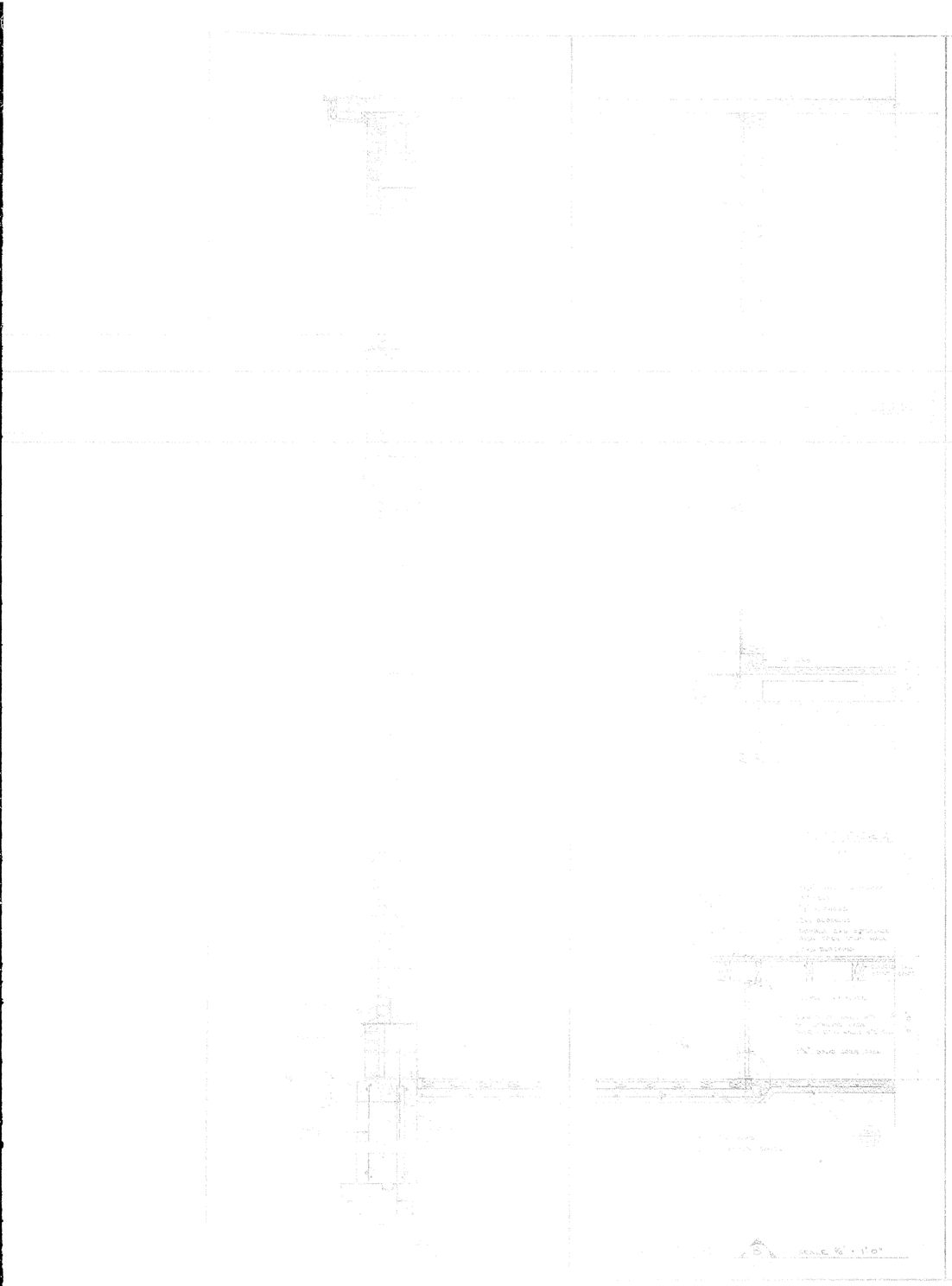
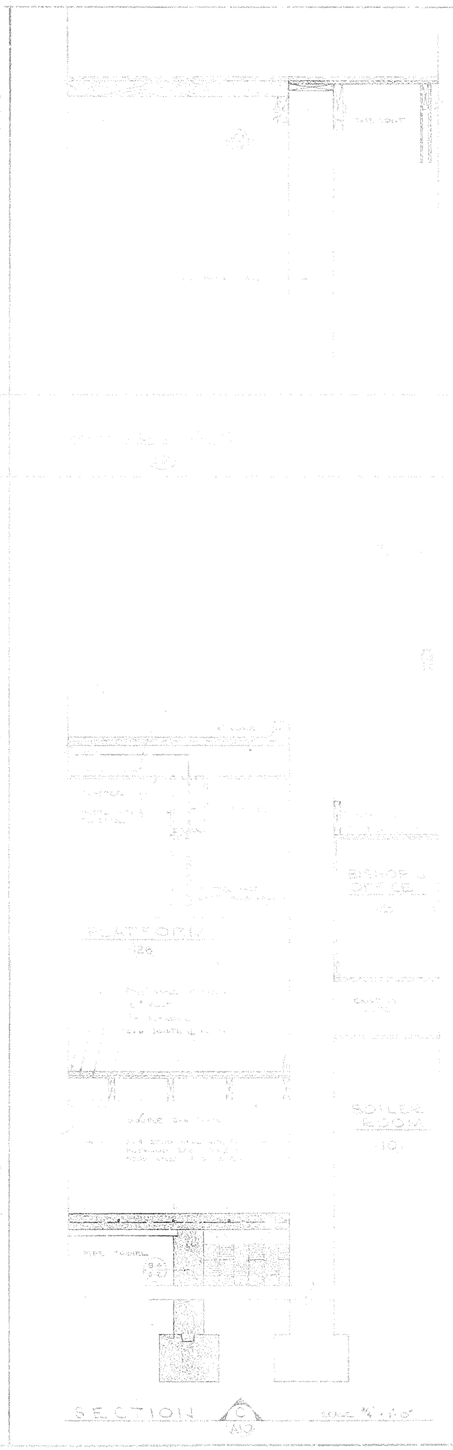
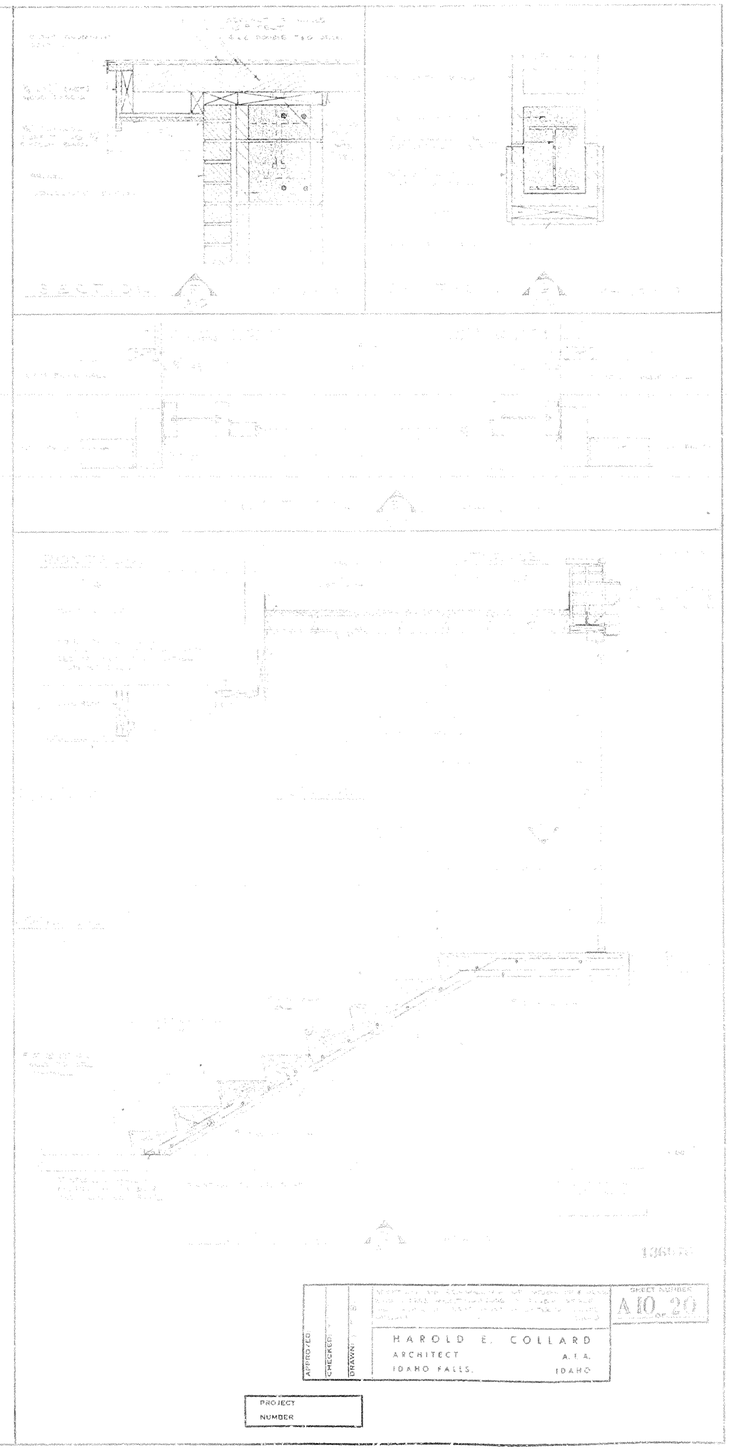
SHEET NUMBER
A0 OF 20

PROJECT NUMBER







HAROLD E. COLLARD
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IDAHO FALLS, IDAHO

SHEET NUMBER
A10 OF 20

APPROVED
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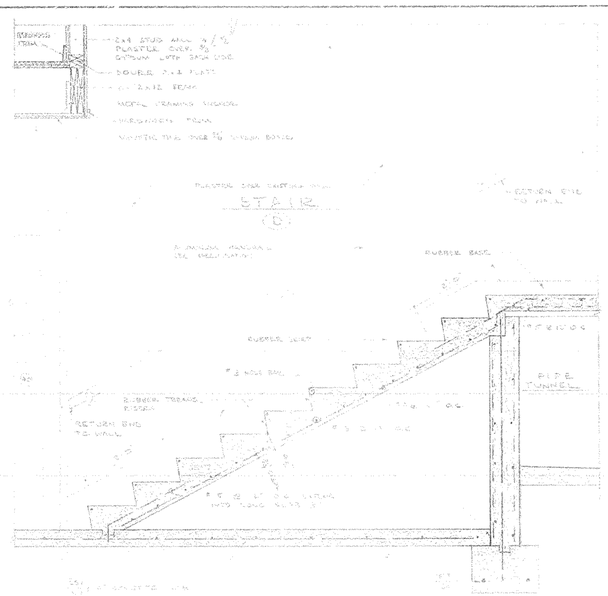
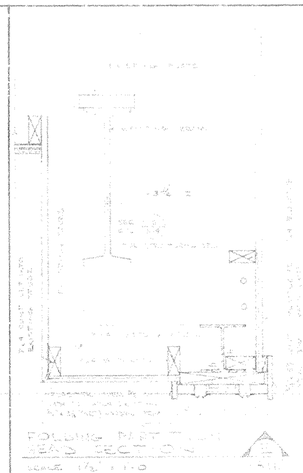
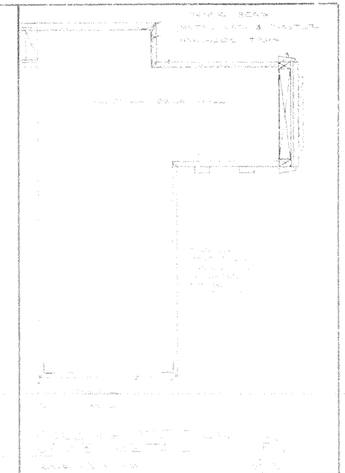
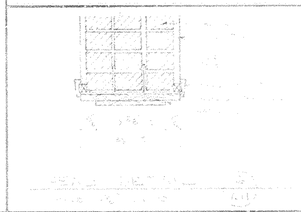
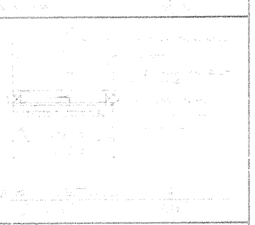
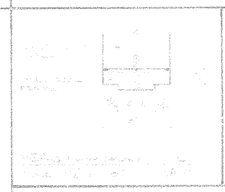


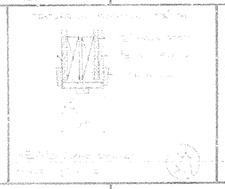


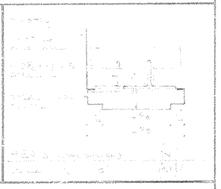


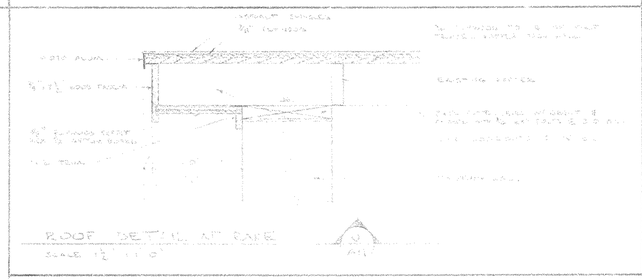


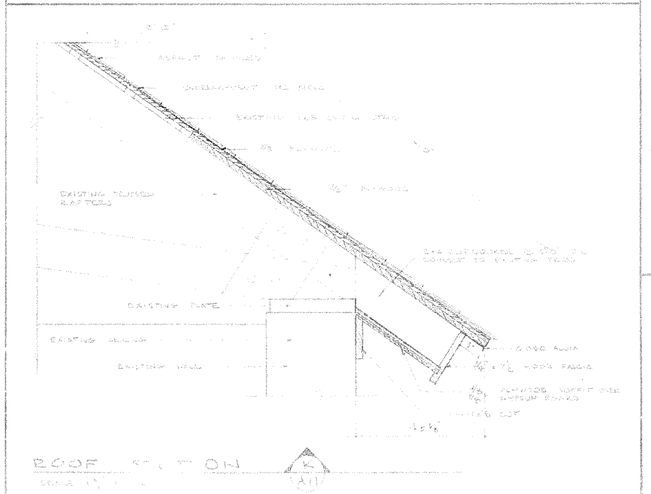


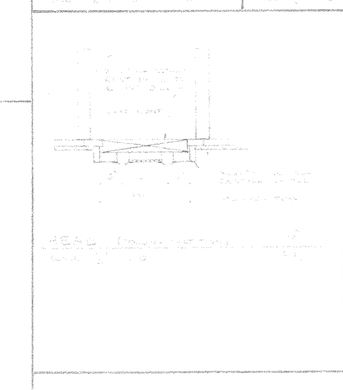


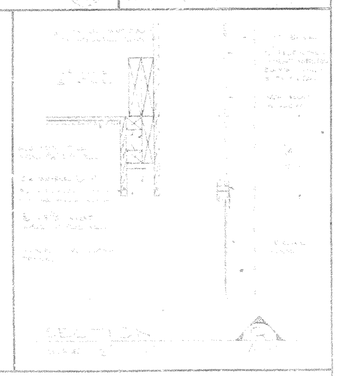








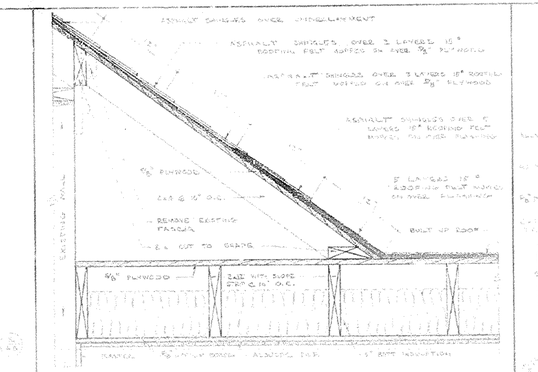


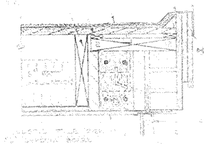


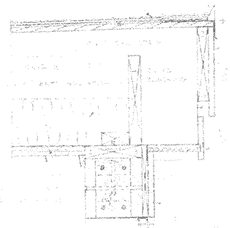
136077

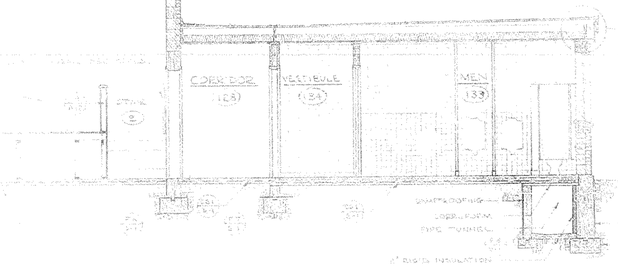
APPROVED	REVISION & ORIGINAL ISSUE OF DRAWING	SHEET NUMBER A11 OF 20
CHECKED		
DRAWN	HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	

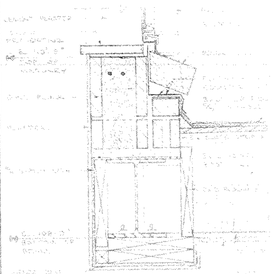
PROJECT NUMBER

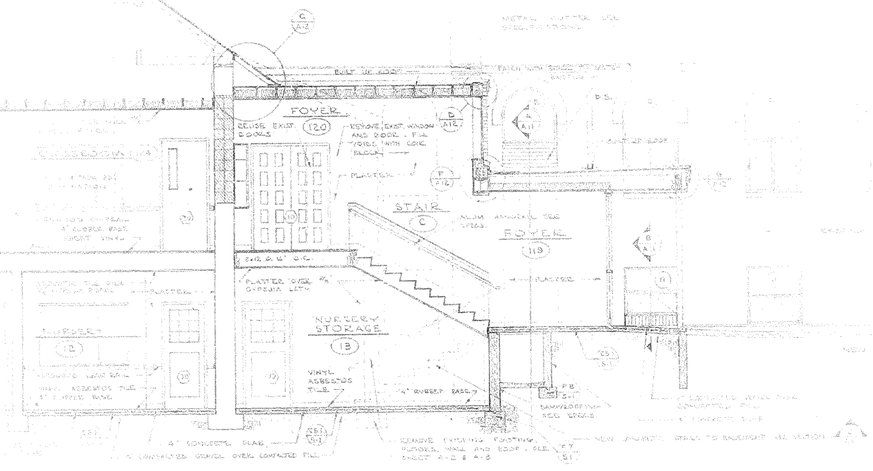












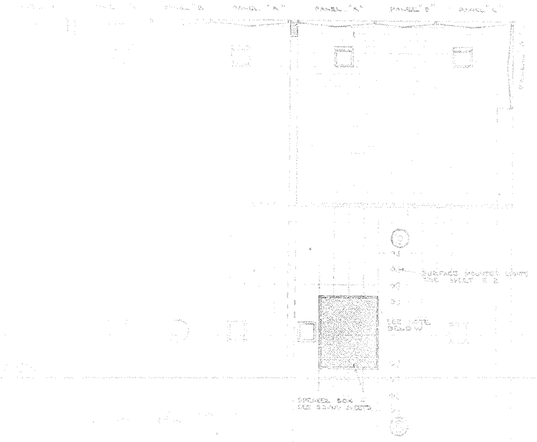
136675

SHEET NUMBER A12 20 OF

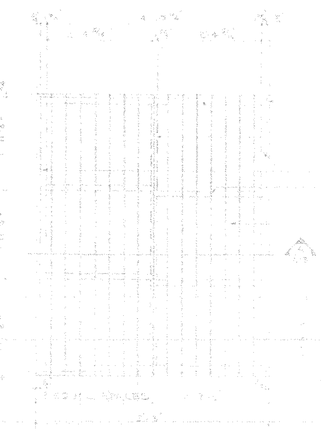
HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS IDAHO

APPROVED
CHECKED
DRAWN

PROJECT NUMBER



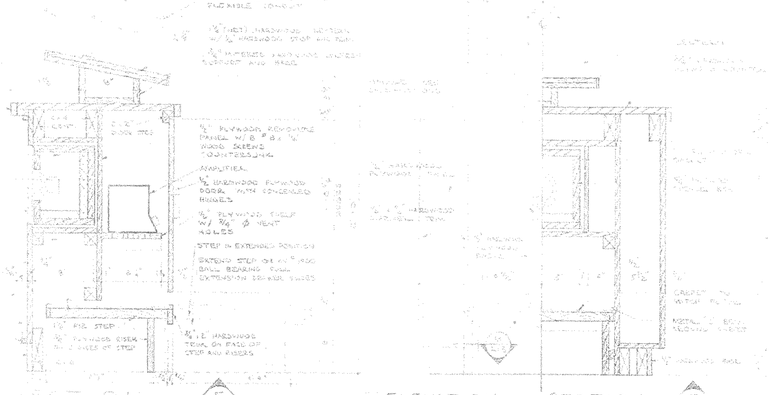
CEILING PLAN

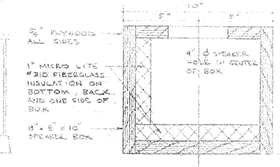


ACOUSTIC PANEL

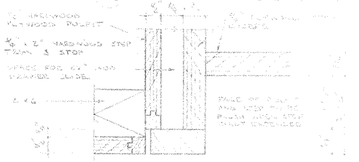
SECTION

SECTION





FRONT ELEVATION SPEAKER BOX

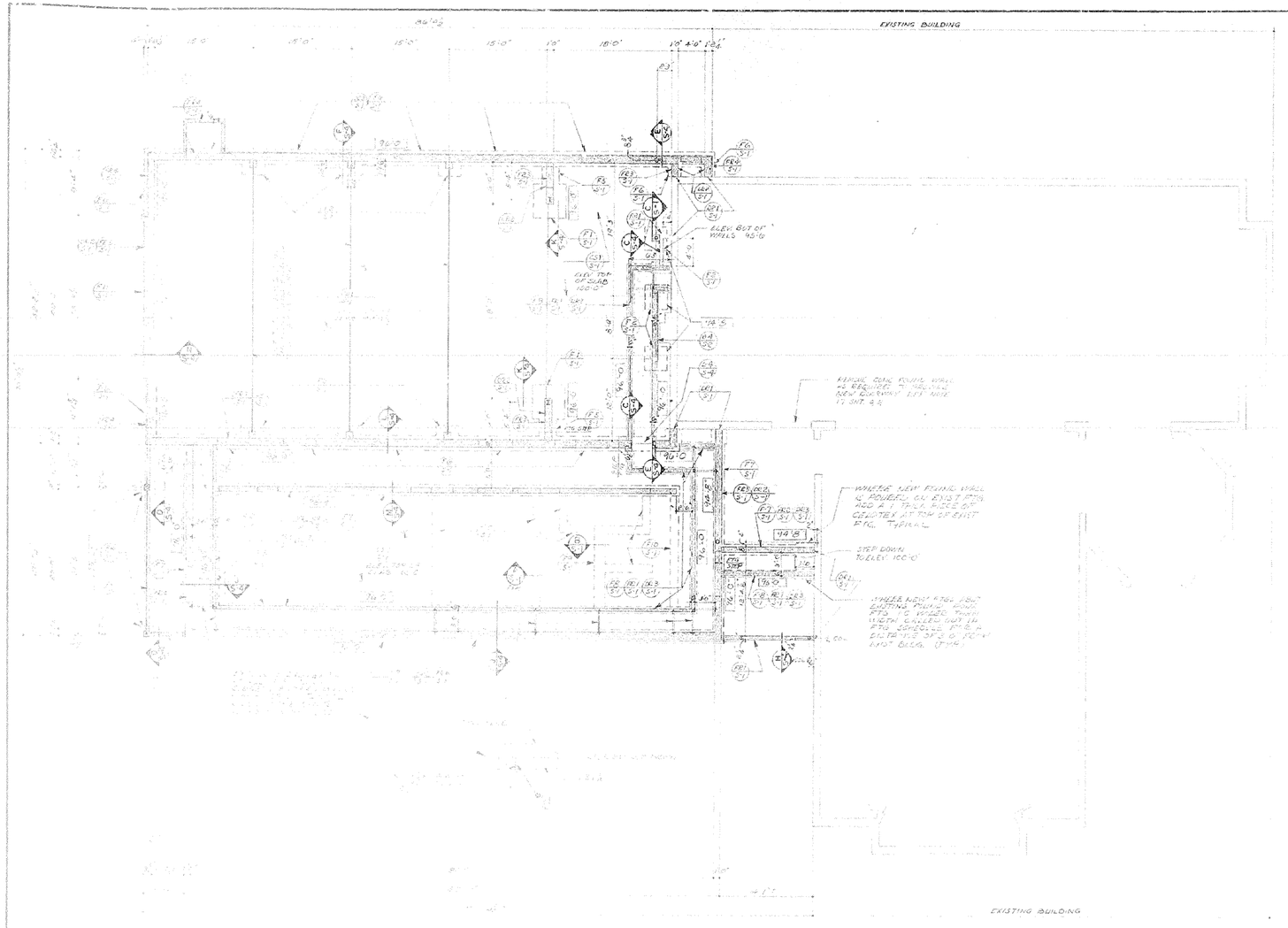


SECTION

APPROVED	
CHECKED	
DRAWN	HAROLD E. COLLARD
	ARCHITECT A.I.A.
	IDAHO FALLS IDAHO

SHEET NUMBER A13 20

PROJECT NUMBER



FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	REINF. CROSSWISE NO	SIZE	LENGTH	SPACE	REINF. LENGTHWISE NO	SIZE	LENGTH	SPACE
F1	4'-0"	5'-0"	1'-0"	6	#6	4'-6"	12"	6	#6	4'-6"	16"
F2	3'-6"	3'-6"	1'-0"	4	#4	3'-0"	12"	4	#4	3'-0"	12"
F3	2'-6"	2'-6"	1'-0"	3	#4	2'-0"	12"	3	#4	2'-0"	12"
F4	2'-0"	2'-0"	1'-0"	3	#4	1'-6"	12"	3	#4	1'-6"	12"
F5	2'-0"	CONT.	1'-0"	—	—	—	—	3	#4	CONT.	24"
F6	2'-0"	CONT.	1'-0"	—	—	—	—	4	#4	CONT.	16"
F7	1'-6"	CONT.	1'-0"	—	—	—	—	3	#4	CONT.	12"
F8	1'-0"	CONT.	0'-8"								
F9	1'-8"	CONT.	1'-0" THICK LEAD					6	#4	CONT.	
F10	1'-4"	CONT.	1'-0" THICK LEAD					5	#4	CONT.	
F11	1'-0"	CONT.	0'-8"					3	#4	CONT.	12"

FOUNDATION WALL REINFORCING

MARK	REINFORCING	REMARKS
FW1	(8) #5 BARS (1) TOP (1) BTM. CONT.	
FW2		
FW3		
FW4		
FW5		
FW6		

REINFORCING DOWEL SCHEDULE

MARK	REINFORCING	REMARKS
DW1		
DW2		
DW3		
DW4		
DW5		

CONCRETE SLAB SCHEDULE

MARK	SLAB THICKNESS	REINFORCING	NOTES	REMARKS
S1	4"	#4 BARS @ 12" O.C. EACH WAY		

FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

ELEV. TOP OF FTGS SHOWN THUS (ELEV.)

SECTION C / S-1 — SCALE 1/2" = 1'-0"

SECTION A / S-1

SECTION B / S-1

DESIGN CRITERIA

WIND PRESSURE AREA	20 p.s.f.
SEISMIC ZONE	ZONE 2
ROOF LIVE LOAD	30 p.s.f.
MAXIMUM SOIL PRESSURE	2000 p.s.f.

L.H. SUDWEEKS & SONS
IDAHO FALLS, IDAHO

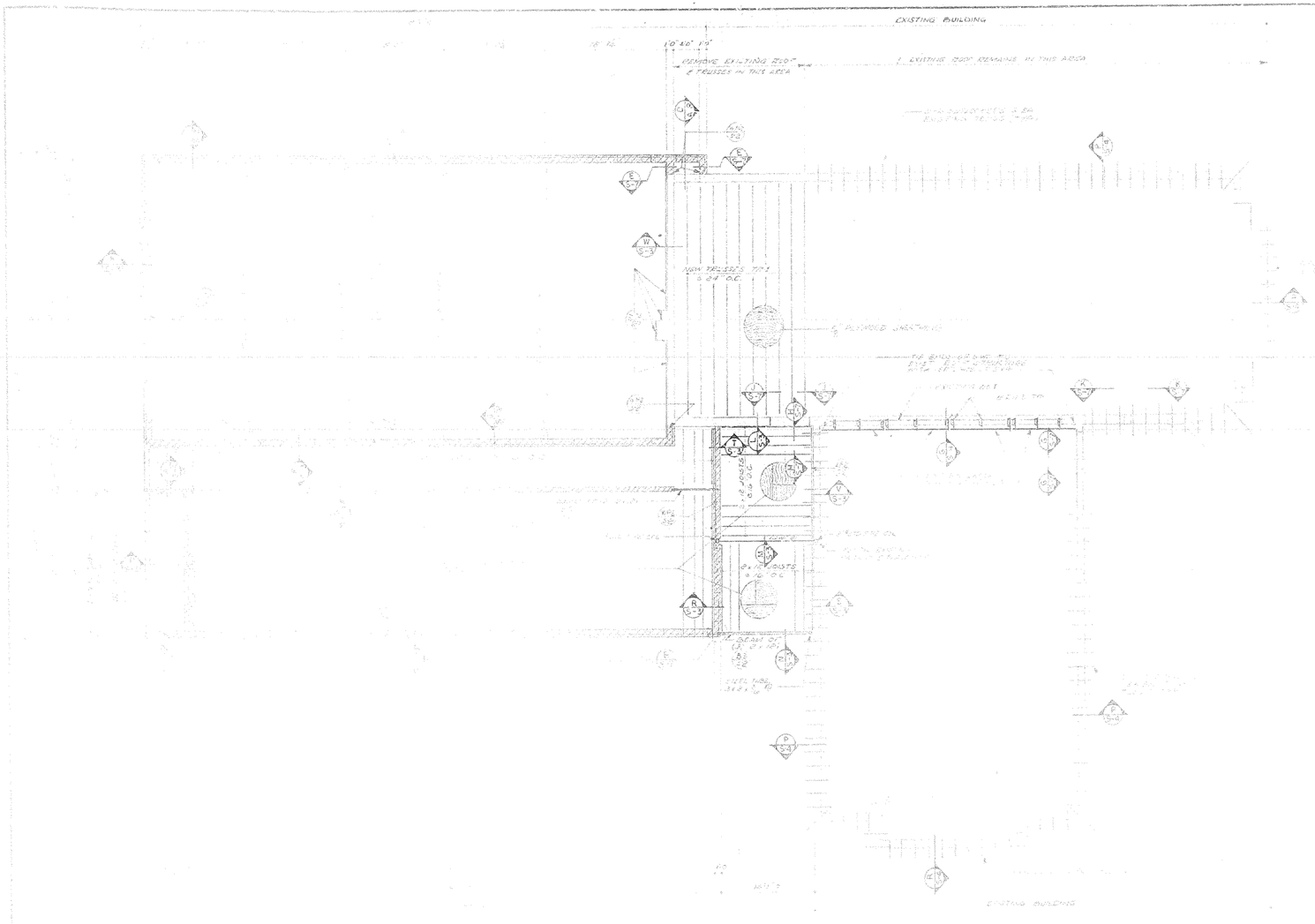
136080

ADDITION & REMODELING OF NEW HOME FOR THE LATTER-DAY SAINTS
SHEET NUMBER S-1 OF 7

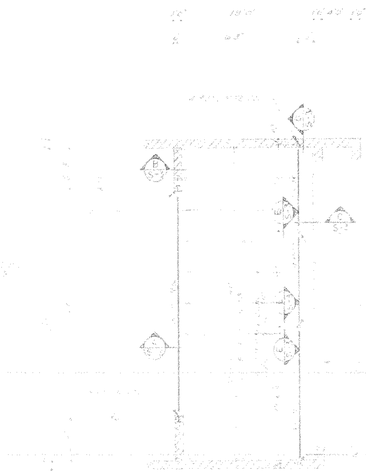
APPROVED | CHECKED | DRAWN

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

PROJECT NUMBER



ROOF FRAMING PLAN



MECHANICAL ROOM FLOOR FRAMING PLAN
ABOVE PLATFORM 126

WALL BEARING PLATE SCHEDULE

LEDGER PLATE SCHEDULE

BEAM SCHEDULE

DETAIL

136081

APPROVED:			SHEET NUMBER S-2 OF 7
CHECKED:			
DRAWN:		HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS. IDAHO	

PROJECT NUMBER

SECTION B S-3

SECTION C S-3

SECTION D S-3

SECTION E S-3

SECTION M S-3

SECTION N S-3

SECTION P S-3

SECTION R S-3

SECTION T S-3

SECTION V S-3

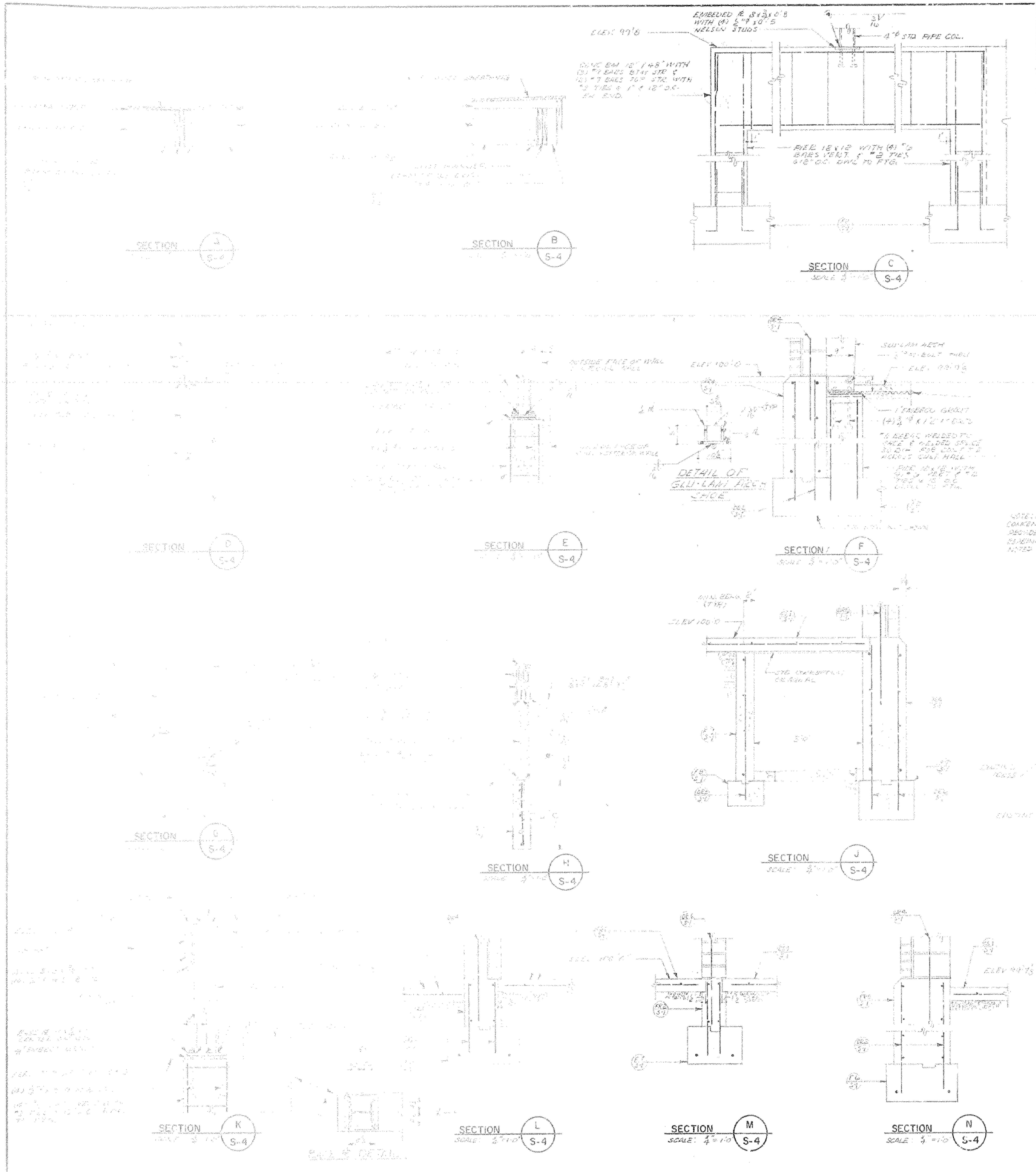
SECTION W S-3

SHEET NUMBER S-3

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

APPROVED
CHECKED
DRAWN

PROJECT NUMBER



MASONRY BOND BEAM SCHEDULE

MARK	SIZE	REINFORCEMENT	TIES	ARRANGEMENT	
BB1	12 x 8	(2) #5 @ 48" O.C.			
BB2	8 x 8	(2) #5 @ 48" O.C.			
BB3	8 x 8	(2) #5 @ 48" O.C.			
BB4	12 x 8	(2) #5 @ 48" O.C.			

LINTEL SCHEDULE

MARK	MATERIAL	OPENING	ARRANGEMENT	REMARKS
L1	MASONRY	SEE PLANS		[illegible]
L2	MASONRY	SEE PLANS		[illegible]
L3	STEEL	SEE PLANS		[illegible]
L4	[illegible]	[illegible]		[illegible]
L5	[illegible]	[illegible]		[illegible]
				[illegible]

CLEAR OPENING	SIZE OF ANGLES
UP TO 5'0"	3 1/2 x 3 x 1/4
5'1" 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
12'0" & OVER	REQUIRES SPECIAL ANALYSIS

NOTE: LINTELS SHOWN ABOVE ... [illegible] CONCENTRATED LOAD OCCUR, FURTHER ANALYSIS IS NECESSARY. PROVIDE ... OF BEARING EACH END ... BEARING 6" EACH SIDE OF OPENING. USE THIS SCHEDULE UNLESS NOTED OTHERWISE.

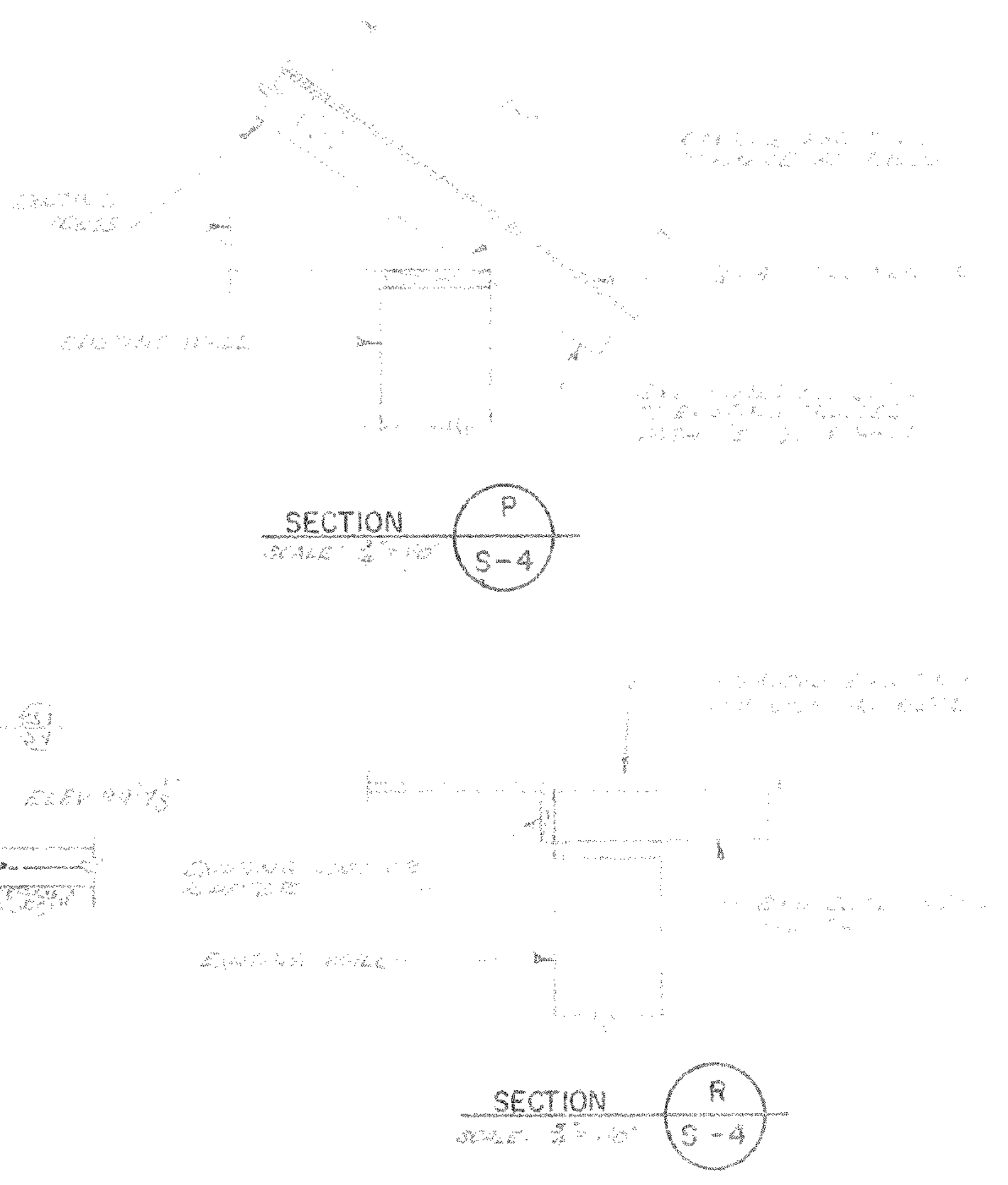
TYPICAL LINTEL SECTIONS

NOTE: THIS SCHEDULE TO BE USED FOR OPENINGS NOT SPECIFICALLY DETAILED ON THE PLANS

LINTELS IN MASONRY OPENING

TABLE OF EQUIVALENT FASTENERS

STAPLES, NAILS, & T-NAILS
(VALID FOR LATERAL LOADS ONLY)



136683

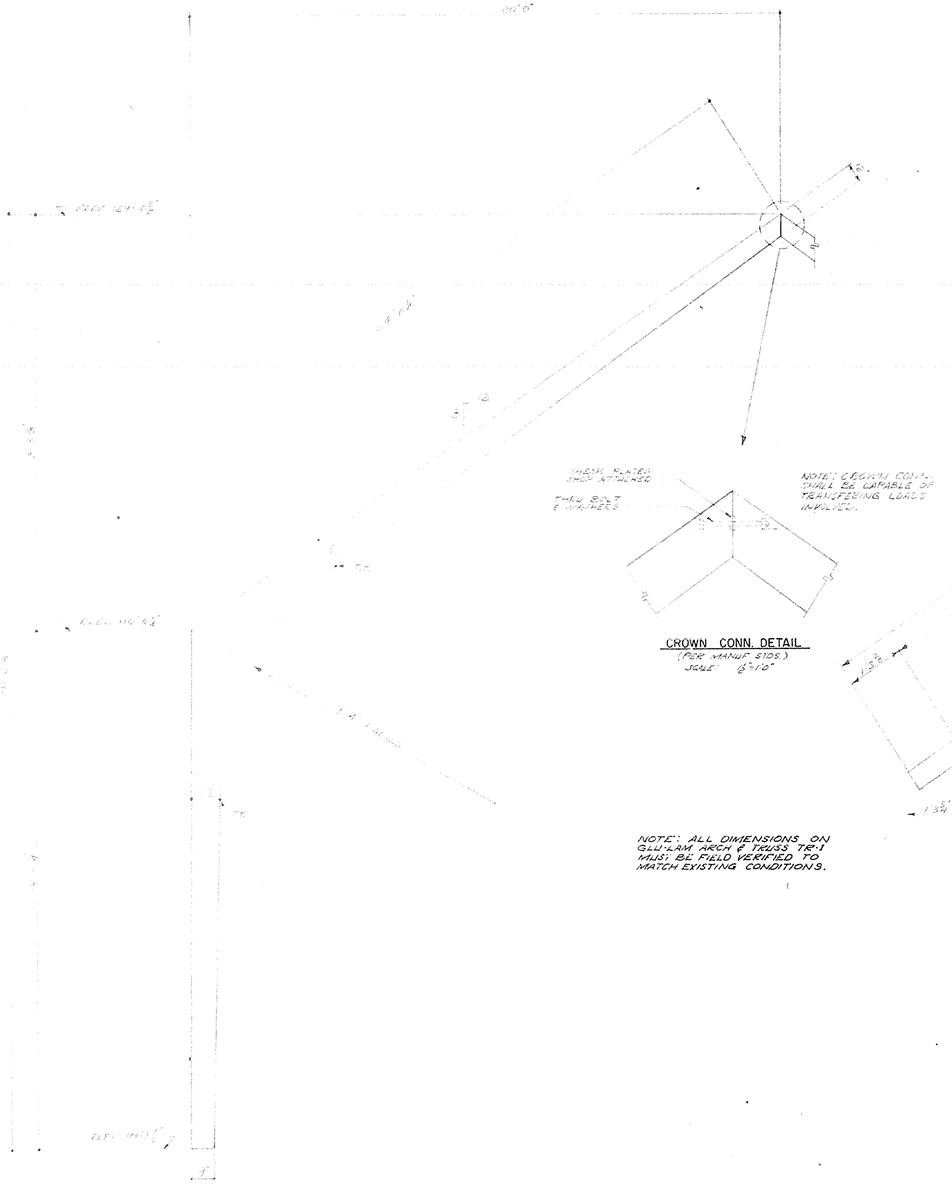
ADDITION & REMODELING OF CHAPEL ... THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS ... IDAHO

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

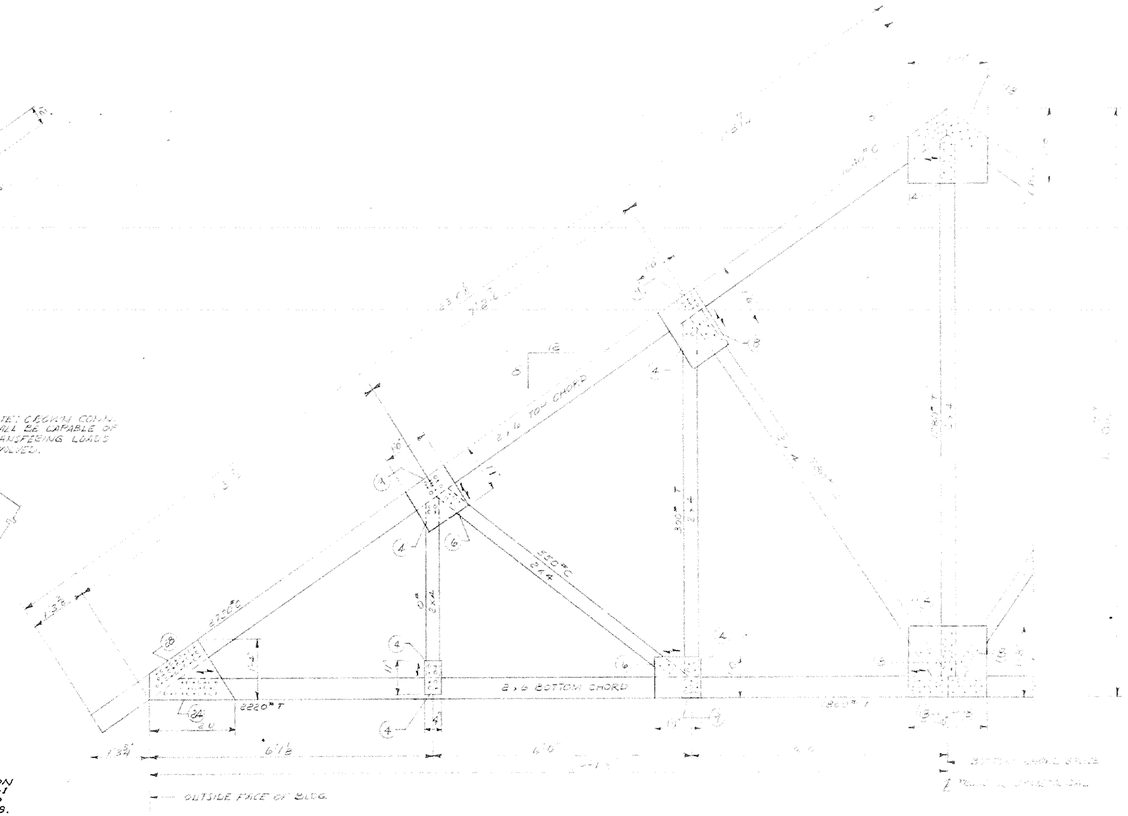
APPROVED:
CHECKED:
DRAWN:

SHEET NUMBER
S-4 OF 7

PROJECT
NUMBER



CROWN CONN. DETAIL
(PER MANUF. STDS.)
SCALE: 6"=1'-0"



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

NOTE: ALL DIMENSIONS ON GLU-LAM ARCH & TRUSS TR-1 MUST BE FIELD VERIFIED TO MATCH EXISTING CONDITIONS.

GLU-LAM ARCH
SCALE: 6"=1'-0"

TRUSS NOTES

1. All gusset plates to be ½" exterior type plywood both sides of truss.
2. Number in circle is total number of 8d common galvanized nails required into each truss member. Drive ½ of nails from each side of truss. (o) nails for face side and (+) nails for opposite side.
3. Arrow indicates required direction of plywood face grain.
4. Use a nailing template and stagger nails to prevent splitting. If splitting occurs blunt nail ends.
5. Trusses to be adequately braced during erection. Lines of bracing to be braced to ground or existing structure at each end of line of bracing.
6. Typical nail spacing is at 3" o.c. each side of truss members.
7. Before the fabrication of these trusses the Contractor shall verify all dimensions shown on the detail from the existing job conditions. Any required change from the dimensions shown shall be reported to the Architect.

L. H. Bowl... Co. of Idaho Falls

ADDITION & REMODELING OF MEETING HOUSE & MEANS
FOR THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
HENRY

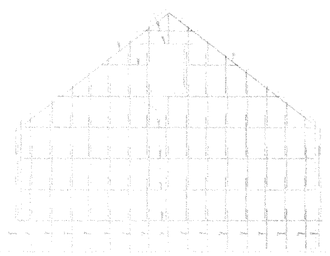
APPROVED
CHECKED
DRAWN

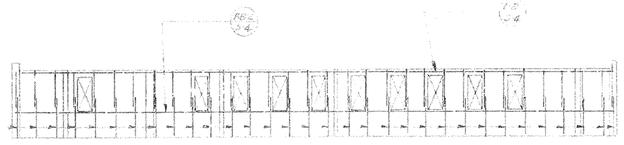
HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

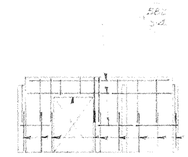
SHEET NUMBER
S-5 OF 7

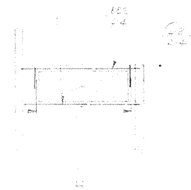
136884

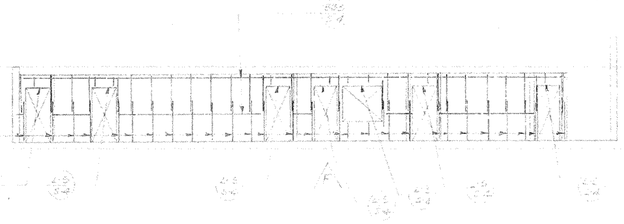
PROJECT NUMBER

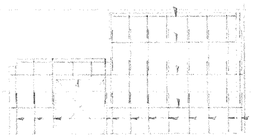


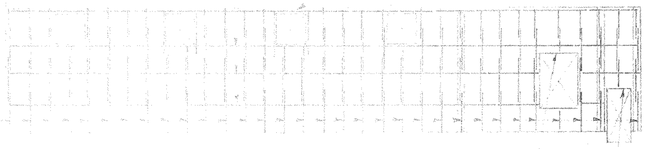


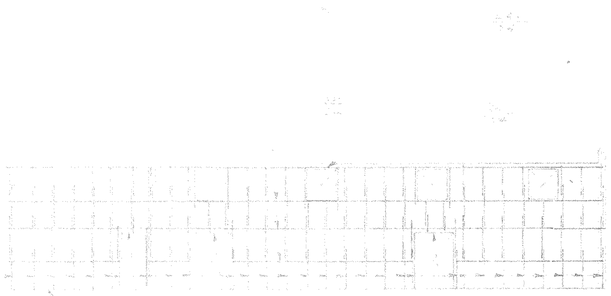


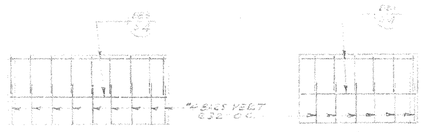


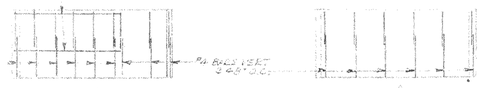


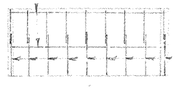


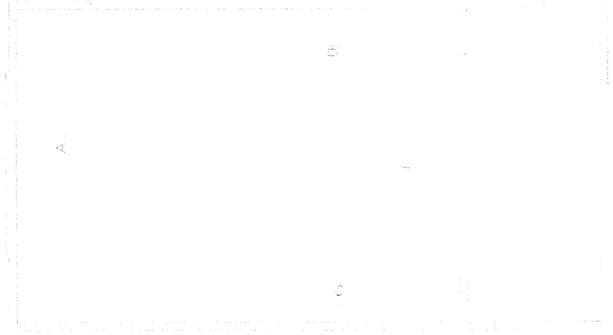


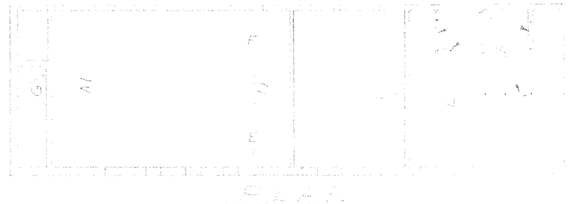




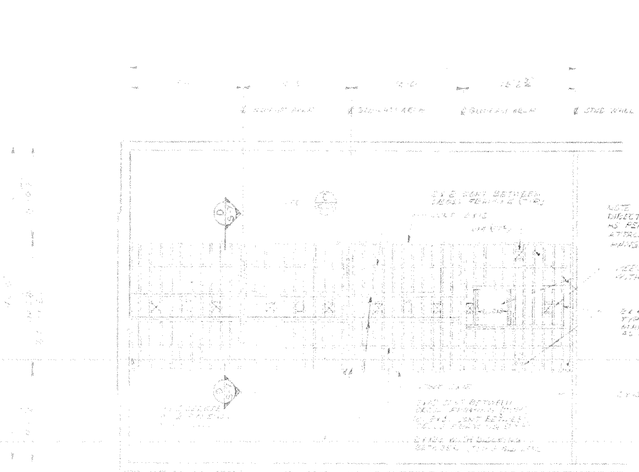




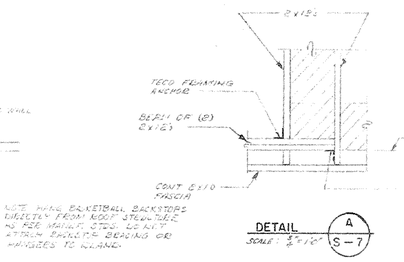




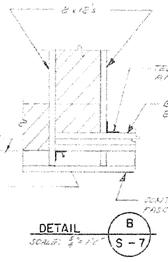
APPROVED	
CHECKED	
DRAWN	
HAROLD E. COLLARD	
ARCHITECT	A.I.A.
IDAHO FALLS,	IDAHO
SHEET NUMBER	S-6 OF 7
PROJECT NUMBER	136085



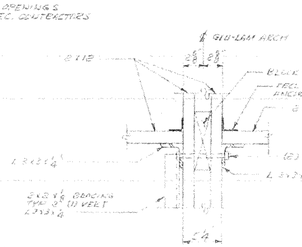
SUSPENDED CEILING FRAMING PLAN
AT CULTURAL HALL



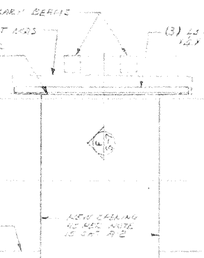
DETAIL A
SCALE: 3/4"=1'-0"
S-7



DETAIL B
SCALE: 3/4"=1'-0"
S-7



SECTION C
SCALE: 1"=1'-0"
S-7

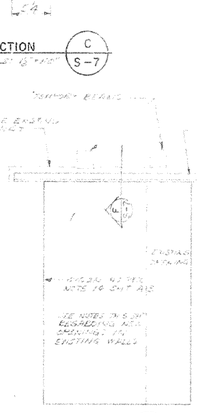


VIEW E
SCALE: 3/4"=1'-0"
S-7

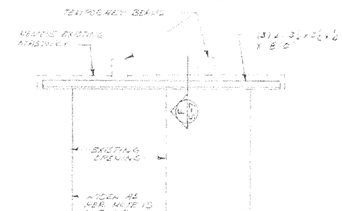
NOTES REGARDING NEW OPENINGS
IN EXISTING WALLS

SECTION F
SCALE: 3/4"=1'-0"
S-7

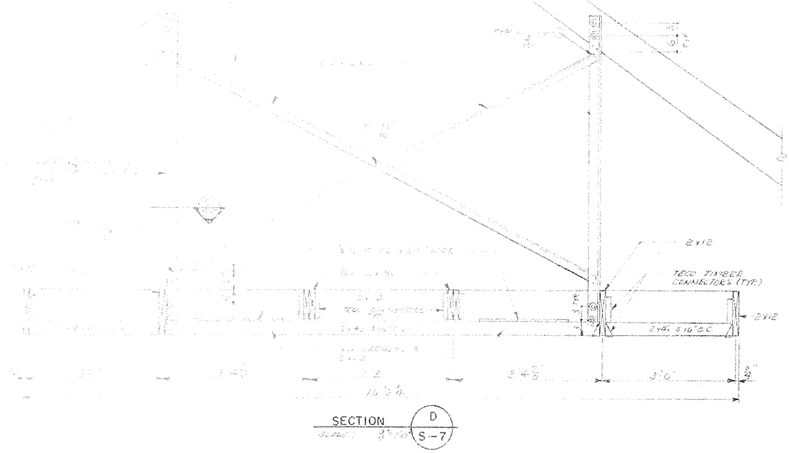
VIEW G
SCALE: 3/4"=1'-0"
S-7



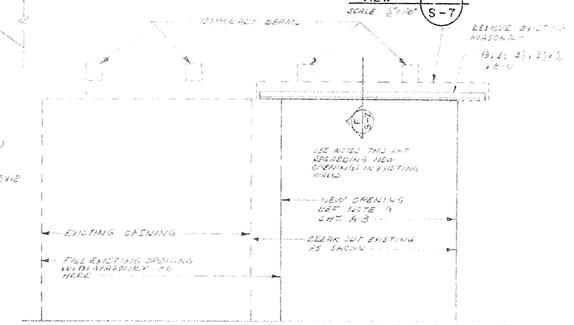
VIEW H
SCALE: 3/4"=1'-0"
S-7



VIEW J
SCALE: 3/4"=1'-0"
S-7



SECTION D
SCALE: 3/4"=1'-0"
S-7



VIEW K
SCALE: 3/4"=1'-0"
S-7

GENERAL STRUCTURAL NOTES

Footings:
1. All footings shall bear 12" into undisturbed earth or on an engineer compacted fill.
2. Footing shall step at a 1 to 2 ratio as required.
3. Exterior wall footings shall bear at a minimum depth of 12" for frost or weather protection.

Concrete:
4. All concrete shall have a "minimum" strength of 3000 psi at 28 days.
5. All concrete shall be air entrained.
6. All concrete shall be placed, cured and protected as directed by specifications and for A.C.I. Standards and Practices.
7. Type V concrete (4000 psi at 28 days) shall be used for footings, foundations and walls and interior slabs.
8. Type A concrete (2000 psi at 28 days) shall be used for stairs, free standing curbs, integral walks and curbs and exterior slabs.

Reinforcement Steel:
9. All rebars shall comply to ASTM A-615-68 Grade 60. All welded wire fabric shall conform to ASTM A-185.
10. All rebars shall be securely tied and held in place with a minimum concrete protection cover to all steel as follows:
Beams and Columns - 1½"; Slab - ¾".
Walls: 2" earth side, ¾" inside; Footing - 3" above earth.
11. All reinforcement shall be detailed and placed according to ACI Standard 315-65 and ACI Detailing Manual 315-66.
12. All continuous reinforcement shall terminate with 90 degree return (or hook) or a separate corner bar. All splices shall lap 30 diameters or 12" minimum and occur in areas of compression.

Concrete Walls or Columns:
13. All vertical reinforcement in columns or walls shall be doweled from the footing or structure below with rebar of the same size and spacing as required above. Provide 12 diameter lap splices, 12" minimum.
14. Provide a minimum 2" x 4" continuous beveled key stop footings at walls.
15. Unless detailed otherwise provide extra reinforcement around openings in concrete walls: Bond, 1 #5 x width + 2'-0" for each 2" width of wall; jamb and sill, 1 #5 x width + 1'-0" as permitted.

General Concrete:
16. No aluminum products shall be embedded in concrete.
17. All construction joints shall be located so as not to impair the strength of the structure. Unless noted on drawings, all reinforcement shall be continuous through joints. Each joint shall be keyed.
18. Provide a #3 x continuous housing bar in all stairs.
19. Unless scheduled otherwise, provide the following reinforcement in foundation walls:

8" Walls - 1 #5 horiz. top & 1 #5 bottom cont.
10" Walls - 2 - #5 horiz. 1 top & 1 bottom cont.
12" Walls - 2 - #5 horiz. 1 top & 1 bottom cont.
In addition to continuous top and bottom reinforcement provide:
10" & 12" Walls: Vertical #5 bars - 2'0" max. staggered each side.
Horizontal #5 bars @ 2'0" max. each face between continuous top and bottom steel at height of wall will permit.
8" Walls: Same as 10" walls, except #5 bars.
6" Walls: #4 bars - 2'0" max. each way as permitted.

Structural Steel:
20. All structural steel shall conform with ASTM A-36 standards and be fabricated in accordance with the American Institute of Steel Construction" containing the specifications for the design, fabrication and erection of structural steel buildings, and the "Code of Standard Practice".
21. Prior to fabrication and placement, shop drawings for [illegible] shall be submitted to the Contractor and approved by the Contract Architect.

Lumber:
22. All structural framing lumber shall be construction grade, or better. Be clearly marked as such by approved stamp. The minimum design stresses shall be 1000 psi in compression parallel to grain, and 1500 psi extreme fiber stress in bending.
23. Solid 2" blocking shall be provided at ends or points of support of all wood joists. Steel bridging of not less than 1" x 3" material shall be placed in rows between support points, not exceeding 8'-0" apart.
24. Wood joists bearing on masonry walls or steel beams shall be anchored by metal joist anchors at 4'-0" on center unless closer spacing is specified.
25. Nailing:
a. 5/8" plywood deck with 10d common [illegible] high roof, 6" all edges on low roof, and 12" o.c. at all intermediate supports.
1. Joist - (2) - 16d per joist to nailer.
2. Blocking to nailer - (3) 16d nails per block.
26. All glue-lam members shall be architectural appearance grade, unless otherwise noted on drawings, and shall be of such combination to allow working stress of [illegible] psi, in extreme fiber bending.
27. See schedule for acceptable substitutions for nailing and staple fasteners.

Hollow Block Masonry:
28. All cells with reinforcement shall be grout full. Cells shall align to preserve an unobstructed vertical cavity 2" x 3" minimum.
29. Lap splices shall be 40 diameter and all bars shall be in place prior to grouting. Grout in lifts not to exceed 4'-0". All vertical bars shall be doweled from the foundation or structure below.
30. All hollow block masonry walls shall be reinforced as follows, unless otherwise [illegible]:

All Exterior and Bearing Partitions:
8" & 10" Block Walls:
Vertical: One #5 [illegible] of all openings, corners and at 48" o.c. elsewhere.
Horizontal: Bond beam block unit at top of wall and at 4'-0" vertically, reinforced with one #5 bar continuous.
12" Block Walls: Same as 8" & 10" walls except use #6 bars.
12" Face Walls: Same as 8" walls except space vertical bars at 32" o.c. and two bars in each horizontal bond beam unit.

Non-Bearing Partitions: 6" and larger block units.
Vertical: Reinforce jambs of all openings and at 8'-0" o.c. maximum with one #4 bar.
Horizontal: Single bond beam block unit at top of wall and at 48" o.c. reinforced with one #4 bar.

Concrete Masonry Walls:
Use dur-o-wal ladder wall, [illegible] 16" O.C. each way. Grout [illegible] ove- tie.

Single Course 4" Masonry:
Use horizontal dur-o-wal or equal at 16" o.c. vertically in full bed of mortar. Maximum length without supports 12'-0".

L. H. Baillie Associates
Consulting Engineers

APPROVED:
CHECKED:
DRAWN:

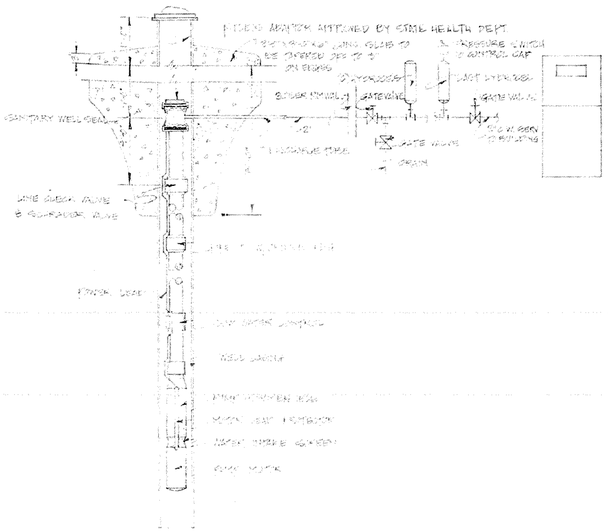
VISITOR'S EXPERIENCE AND HOUSING AT E. IDAHO
NEW STAKE HEADQUARTERS, FIRST WARD
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
IDAHO FALLS, IDAHO

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

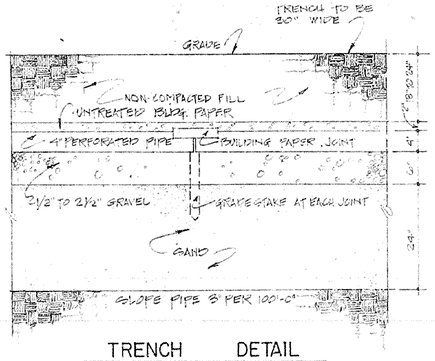
SHEET NUMBER
S-7 OF 7

136086

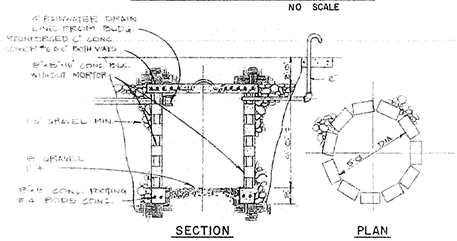
PROJECT NUMBER



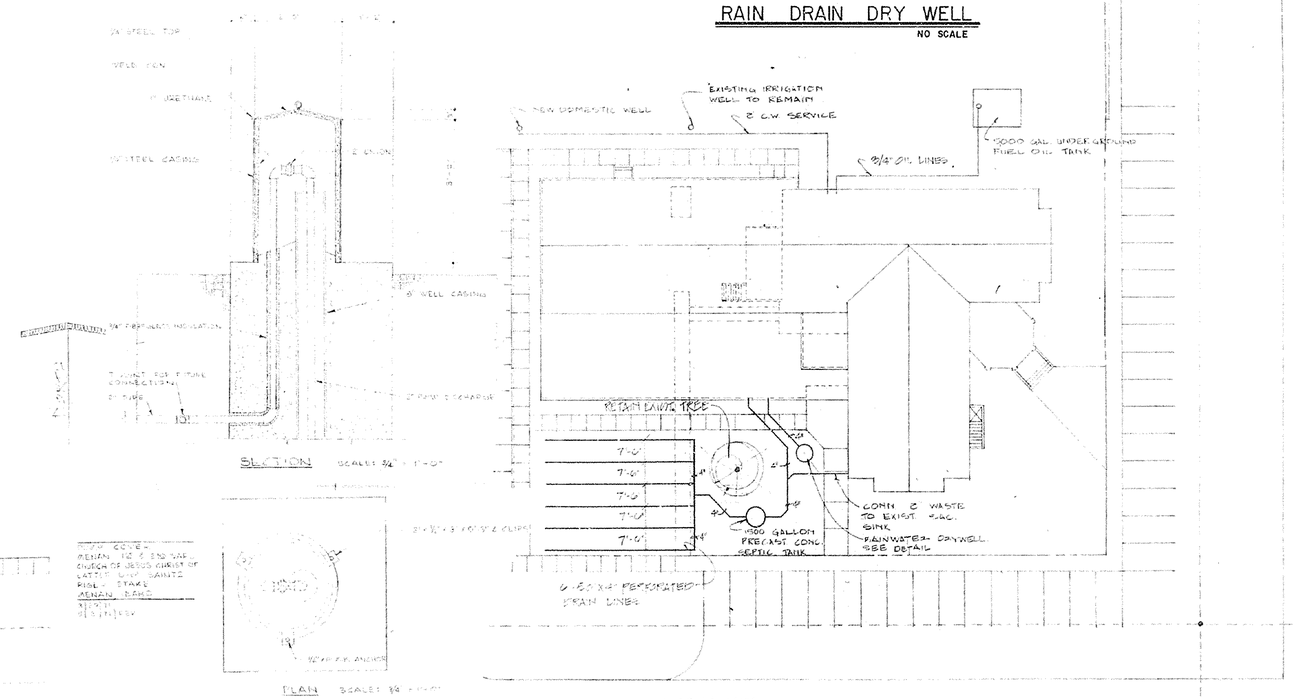
WELL PUMP
NO SCALE



TRENCH DETAIL
NO SCALE



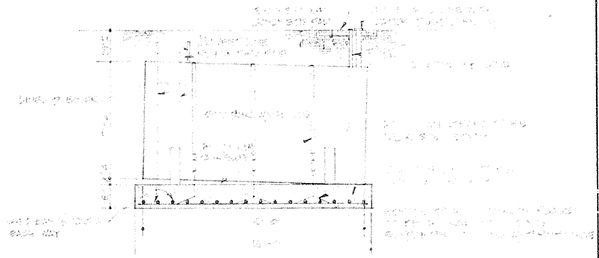
RAIN DRAIN DRY WELL
NO SCALE



SITE PLAN — MECHANICAL
SCALE: 1" = 20"

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER LINE
	HOT WATER LINE
	WASTE LINE
	VENT LINE
G	HEATING SUPPLY
R	HEATING RETURN
F	FIRE LINE
O	OIL LINE
	VENT
	VENT THRU ROOF
	SUPPLY DUCT
	RETURN DUCT
C.D.	CEILING DIFFUSER
D.L.	DOOR LOUVER
R.A.G.	RETURN AIR GRILLE
R.A.R.	RETURN AIR REGISTER
F.A.L.	FRESH AIR LOUVER
E.G.	EXHAUST GRILLE
C.A.L.	COMBUSTION AIR LOUVER
	GATE VALVE
	GLOBE VALVE
	STRAINER
	CHECK VALVE
	UNION
T	THERMOSTAT
A.V.	AIR VENT
	THERMOMETER
	PRESSURE GAGE
	MOTORIZED VALVE
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER



OIL TANK DETAIL
SCALE: 1/4" = 1'-0"

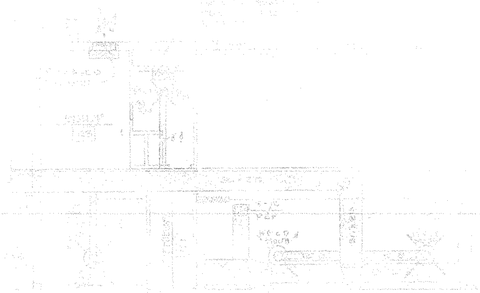
136087

APPROVED:	ADDITION & REMODELING OF MENAN 1ST & MENAN 2ND WARDS MEETINGHOUSE RIGBY STAKE THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS MENAN IDAHO	SHEET NUMBER M1 4 OF
CHECKED:	HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	
DRAWN:		

PROJECT NUMBER

PUMP SCHEDULE

MARK	HEAD	GPM	PHASE	RPM	DRIVE	SERVICE



FIXTURE SCHEDULE

SYM	DESCRIPTION	VOLT	WATTS

ELECTRIC HEATER SCHEDULE

MARK	BTU	K.W.	CHAR.	CONTROL	REMARKS

CONVECTOR SCHEDULE

MARK	SIZE	MBH	FIN SIZE	ENT WATER	TEMP DROP	SUPPLY	RETURN	VALVE

UNIT HEATER SCHEDULE

MARK	TYPE	MBH	H.P.	H.P. PHASE	RPM	VOLT

HEATING & VENTILATING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	MBH	H.P.	H.P. PHASE	R.P.M.	VOLTAGE	CFM

FIXTURE CONTROLS

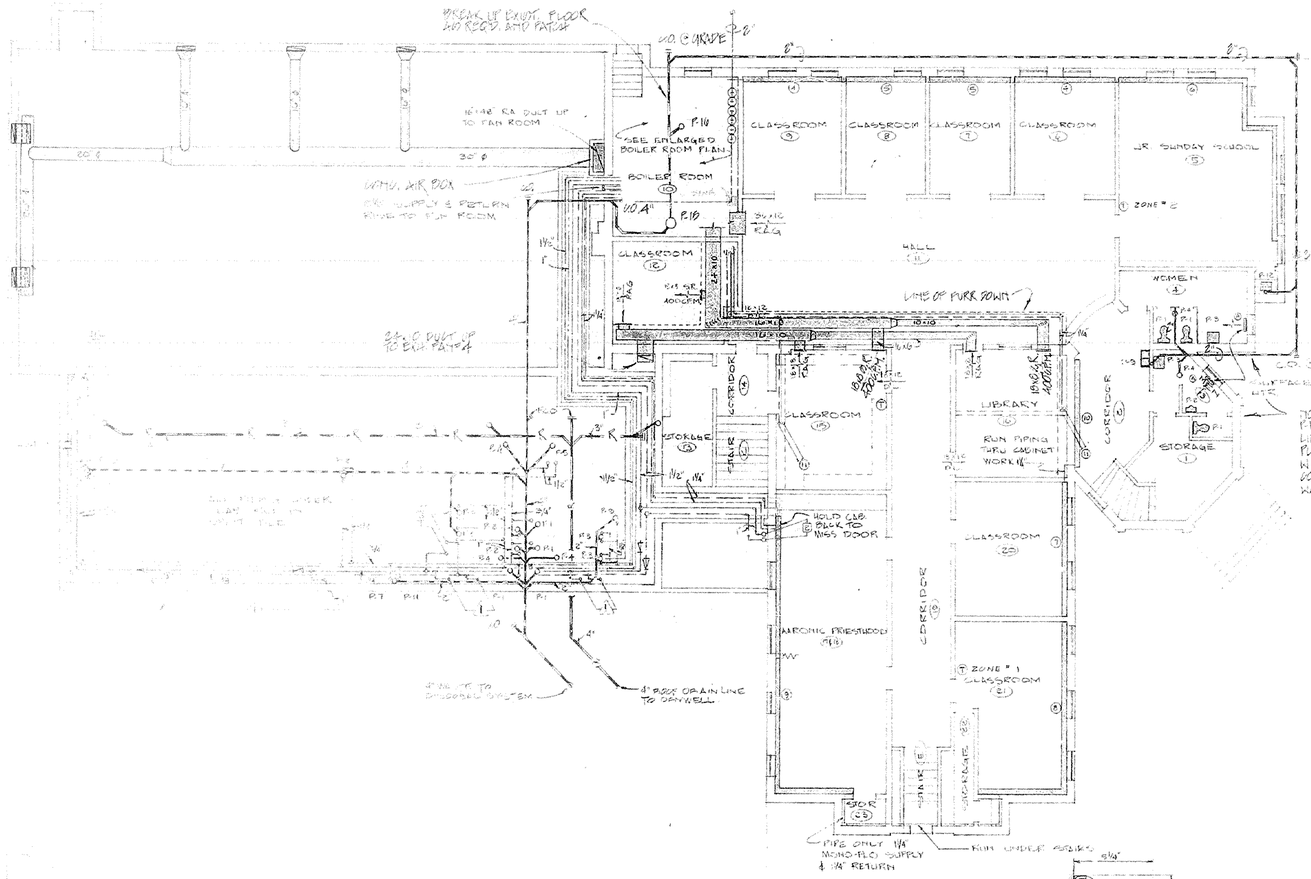
SYM	DESCRIPTION	VOLT	WATTS

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	S.P. in.	H.P.	PHASE	RPM	VOLT

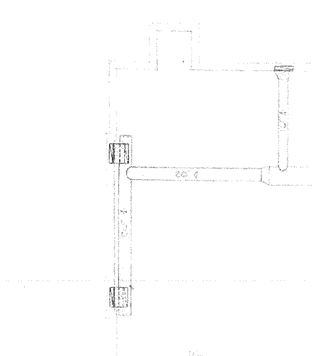
ARCHITECT

PROJECT NUMBER



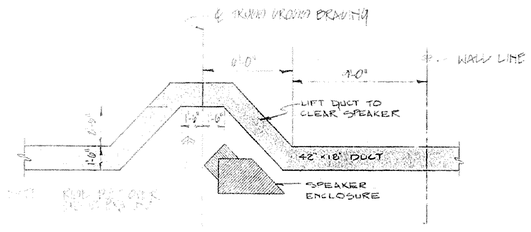
BASEMENT FLOOR PLAN — MECHANICAL

SCALE: 1/8"=1'-0"



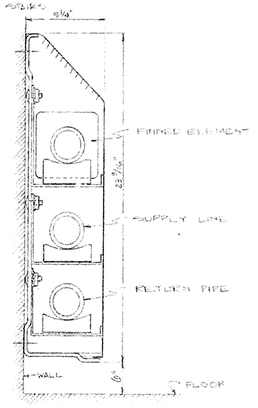
A/C UNIT DETAIL

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



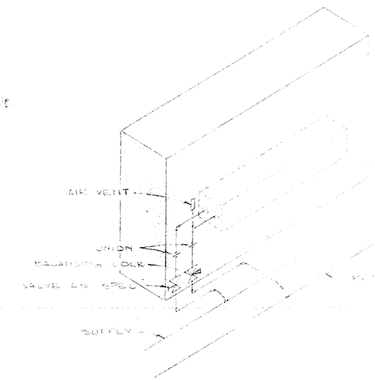
DUCT OVER SPEAKER DETAIL

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



FINTUBE SECTION

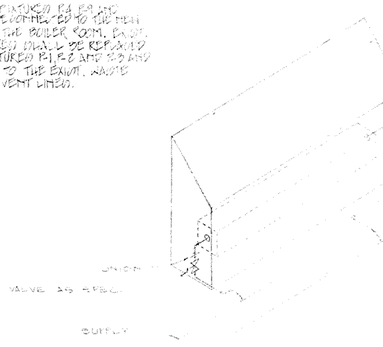
NO SCALE



NOTE: RUN CAPPED RA AIR PIPE DOWN TO BE CONNECTED TO THE NEW LINE RUN TO THE BOILER ROOM. EXIST. FLOOR FIXTURES SHALL BE REMOVED W/ NEW FIXTURED R1, R2 AND R3 AND CONNECTED TO THE EXIST. WASTE WATER AND VENT LINES.

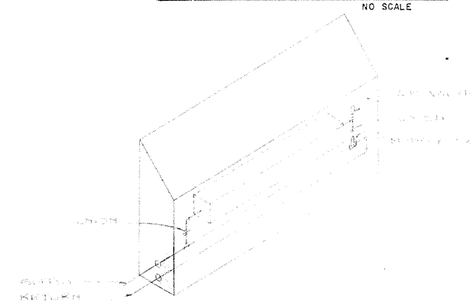
CABINET UNIT HEATER PIPING

NO SCALE



FINTUBE PIPING DETAIL (1)

NO SCALE



MONO-FLOW FINTUBE PIPING

NO SCALE

136089

ADDITION & REMODELING OF MENAN 1ST & MENAN 2ND WARDS MEETINGHOUSE
RIGBY STAKE
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
MENAN, IDAHO

SHEET NUMBER M3 4 OF

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS, IDAHO

APPROVED
CHECKED
DRAWN

PROJECT NUMBER

TYPICAL COIL PIPING
NO SCALE

CHANNEL RAIL
NO SCALE

BOILER ROOM PLAN
SCALE: 3/8"=1'-0"

BOILER ROOM SECTION B-B
SCALE 3/8"=1'-0"

FAN ROOM SECTION A-A
SCALE 3/8"=1'-0"

SCHEMATIC BOILER PIPING 136990
NO SCALE

APPROVED	ADDITION & REMODELING OF MENAN 1 & MENAN 2 WARDS MEETINGHOUSE RIGBY STAKE THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS MENAN IDAHO	SHEET NUMBER M4 OF 4
CHECKED	HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	
DRAWN		

PROJECT NUMBER

ELECTRICAL SYMBOL & OUTLET SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING HEIGHT #	WIRING DEVICE	NOTES
○	CEILING LIGHT OUTLET	CEILING	SEE FIXTURE SCHEDULE	(1)
○	WALL LIGHT OUTLET	AS NOTED		(1)
□	RECESSED INCANDESCENT LIGHT FIXTURE	CEILING		(1) (2)
▭	FLUORESCENT LIGHT FIXTURE	AS NOTED		(1)
⊗	WALL MOUNTED EXIT LIGHT	AS NOTED		(1) (3)
⊗	CEILING MOUNTED EXIT LIGHT	CEILING		(1) (3)
◁	FLOODLIGHT	AS NOTED		(1)
▭	FLUORESCENT NIGHT LIGHT	AS NOTED		DO NOT SWITCH
$S	SINGLE POLE SWITCH	+4' - 6	HUBBELL 1221 - I	(4) (5)
$S3	THREE - WAY SWITCH	+4' - 6	HUBBELL 1223 - I	(4) (5)
$S4	FOUR - WAY SWITCH	+4' - 6	HUBBELL 1224 - I	(4) (5)
$P	SWITCH & PILOT LIGHT	+4' - 6	HUBBELL 1476	(5)
$	VARIABLE INTENSITY SWITCH	+4' - 6	(SEE SPECS)	
$F	FAN SWITCH	+4' - 6	PARAGON FF-15-0	
$D	DOOR SWITCH	+4' - 6	HUBBELL 2022	(5)
$T	THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4' - 6	SQ "D" 2510 PCIP	(6)
$M	SPEED SWITCH	+4' - 6	BY MECHANICAL	
$X	FUSED SWITCH	ON EQUIP	BUSS "S.S.W."	(5)
$	LOW VOLTAGE SWITCH	+4' - 6	G.E. RCS2PL/RR8/RT1	SEE SPECS
	TIMED SWITCH (ASTRO)	+5' - 0	TORK 7300ZL	(9)
	TIMED SWITCH (24 HR)	+5' - 0	TORK 7300L	(9)
	ELECTRIC EYE W/RELAY	AS NOTED	TORK 2000A	(8)
	THERMOSTAT (ELECTRIC)	+5' - 0		
	LOCKOUT STOP SWITCH	+5' - 0	SQ "D" KYC 105	
TV	TELEVISION OUTLET (4 SQUARE)	5"	(SEE SPECS)	
	GROUNDING TYPE DUPLEX CONVENIENCE OUTLET	8"	HUBBELL 5252-I	(5)
WP	WEATHERPROOF CONV OUTLET	+2' - 0	SIERRA WPD-8	(5)
	FLOOR OUTLET W/15 AMP DEVICE	FLOOR	HUBBELL F-2026 SC-3093	
	PLUG MOLD	+3' - 6	WIRE MOLD 2100/2127 G4 W/PLUG 30" O.C.	
	SPECIAL OUTLET WITH CAP W/LIFT COVER ¾"Ø - 0 CORD		MFG. 1. HUBBELL 7310 2. HUBBELL #3320 3. HUBBELL #3450 4. HUBBELL 7410 5. HUBBELL #3430 6. HUBBELL #7379	MTG. +2' - 0 +2' - 0 +0 - 6 +4' - 0 +4' - 0 +4' - 0
	JUNCTION BOX 1-1/2" IN FLOOR	CEILING		
	JUNCTION BOX	WALL		
	MOTOR OUTLET	TO SUIT EQUIP		
	FAN MOTOR	TO SUIT EQUIP		
	DISCONNECT SWITCH ("F" FUSED)	+5' - 0	SQ "D" GENERAL DUTY	(6) (7)
	MAGNETIC STARTER	+5' - 0	SQ "D" 8536	(6) SIZE TO EQUIP
	MAGNETIC STARTER / DISCONNECT	+5' - 0	SQ "D" 8538	(6)
	BREAKER - STARTER COMBINATION	+5' - 0	SQ "D" 8539	(6) SIZE TO EQUIP
	TELEPHONE OUTLET	8"	(SEE SPECS)	
	TELEPHONE OUTLET	FLOOR	HUBBELL F 2828 S-3050	
	TELEPHONE CABINET	TOP AT 6' - 6	AS NOTED	
	PANELBOARD	TOP AT 6' - 6	(SEE SCHEDULE)	
	MAIN POWER PANEL	(SEE SCHEDULE)		
	CLOCK OUTLET	+8' - 0	HUBBELL 7707-SB	
	PROGRAM CLOCK	+8' - 0	(SEE SPECS)	
M	MASTER CLOCK	+5' - 0	(SEE SPECS)	
	CLOCK HOUR SIGNAL BELL	+7' - 6	(SEE SPECS)	(8)
	CLOCK STATION	+5' - 0	(SEE SPECS)	
	FIRE DETECTOR	CEILING	(SEE SPECS)	(8)
	FIRE ALARM BREAK GLASS STATION	+5' - 0	(SEE SPECS)	
FA	FIRE ALARM CONTROL CABINET		(SEE SPECS)	
	FIRE ALARM SIGNAL HORN	+7' - 6	(SEE SPECS)	
IC	INTER COM	AS NOTED	(SEE SPECS)	
M	MICROPHONE FLOOR RECEP	FLOOR	(SEE SPECS)	
M	MICROPHONE CEILING RECEP	CEILING	(SEE SPECS)	
M	MICROPHONE OUTLET	9"	(SEE SPECS)	
	SOUND SYSTEM SPEAKER OUTLET	+8' - 0 OR CEILING	(SEE SPECS)	
RC	REMOTE CONTROL		(SEE SPECS)	
P	PRIVACY ANNUNCIATOR SWITCH	+4' - 6	(SEE SPECS)	
V	VOLUME CONTROL	+4' - 6	(SEE SPECS)	
#	STANDARD MOUNTING HEIGHT UNLESS NOTED OTHERWISE (ON PLANS)			

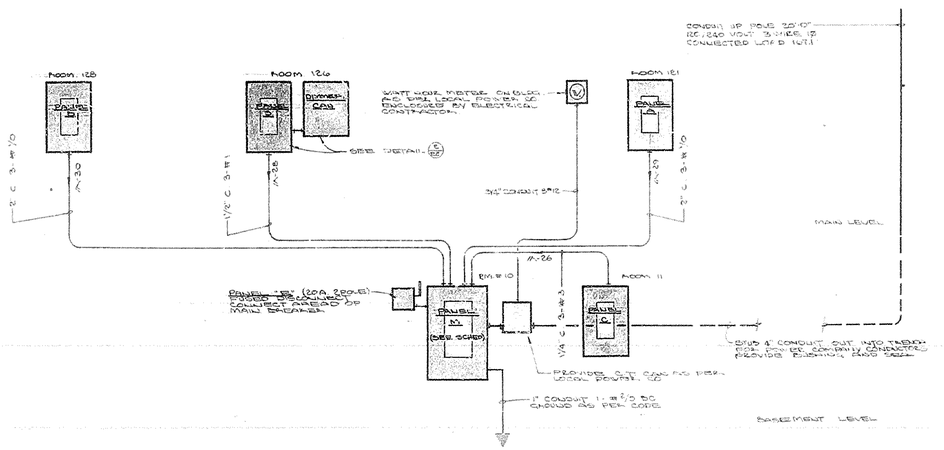
———	ONE CIRCUIT - TWO WIRE - HOME RUN TO PANEL
——//——	TWO CIRCUIT - THREE WIRE - COMMON NEUTRAL - HOME RUN TO PANEL
——///——	THREE CIRCUIT - FOUR WIRE - COMMON NEUTRAL - HOME RUN TO PANEL
- - - - (A) (B)	CONDUIT RUN (A) IN WALL OR CEILING, (B) IN FLOOR OR GROUND
——(A) ——(B)	CONDUIT (A) UP CONDUIT (B) DOWN

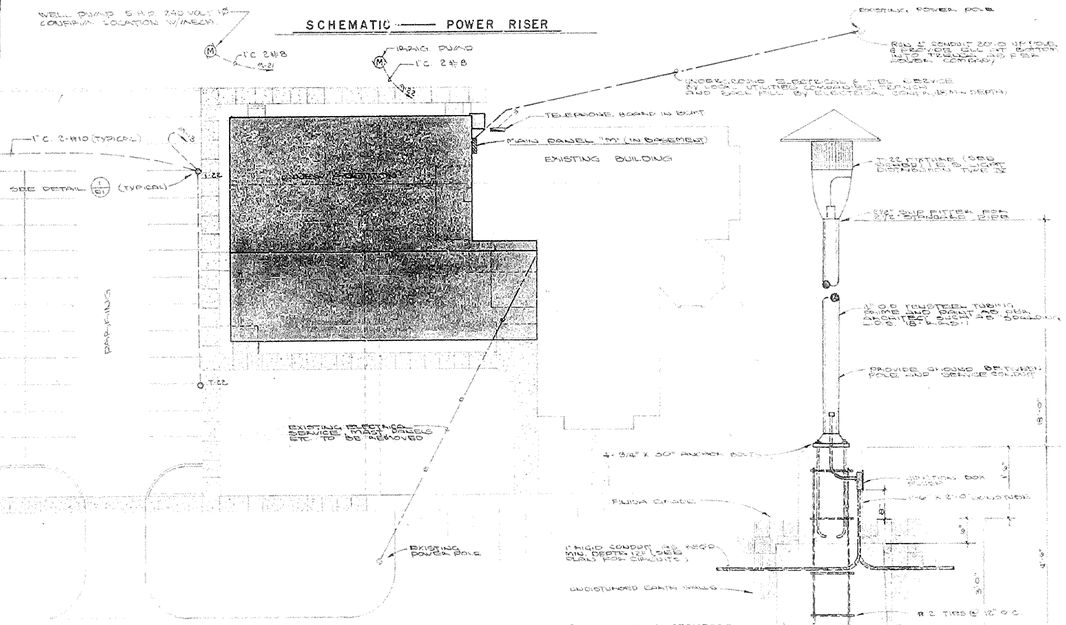
(1) SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING, & WATTAGE
(2) WIRED FROM OUTLET BOX ADJACENT.
(3) REFER TO DRAWINGS FOR DIRECTIONAL ARROWS
(4) SUBSCRIPT KEYS SWITCH TO OUTLETS CONTROLLED
(5) EQUALS OF BRYANT, G.E., SIERRA OR HUBBELL ARE ACCEPTABLE.
(6) EQUALS OF WESTINGHOUSE, SQ "D", G.E., OR A-B, ARE ACCEPTABLE.
(7) NEMA TYPE "ND" UNFUSED UNLESS NOTED "F" (FUSED) USE "HD" FOR 480 VOLT
(8) # INDICATES SIZE AND/OR TYPE (SEE SPECS).
(9) EQUALS OF PARAGON AND INTERMATIC ARE ACCEPTABLE.

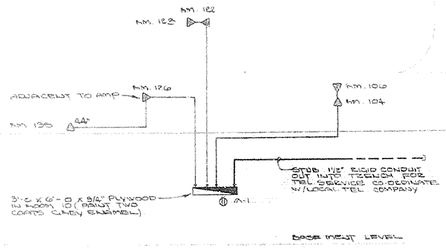
PANEL "A" TYPE I-LINE VOLTS 120/240
LOCATION ROOM 10 FLOOR BASEMENT MOUNTING SURFACE
MAIN 600 AMP BREAKER TOP FEED

CIR NO	BREAKER AMP	POLE	NO. OUTLETS LTS	C.O.	MISC	LOAD A	LOAD B	WIRE SIZE	REMARKS
1	20	1		3		1000		12	TEL. BOARD
2			10			1500			OUTSIDE LIGHTS THRU [1]
3					1		800		SUMP PUMP
4					1		800		I.D. FAN
5					4	1196			HEATCABLE THRU SWITCH
6					1	800			FURNACE CONTROLS
7									SPARE
8									
9									
10									
11									
12									
13		2			4	950	850	10	PARKING LOT LIGHTS THRU [1]
14					1	1500	1500	12	FAN UNIT
15	30				1	1800	1800	12	FURNACE MOTOR
16									SPARE
17	40				1	2000	2000	10	AIR HANDLER (south)
18					1	2000	2000		AIR HANDLER (north)
19					1	2000	2000		CIRC. HTG. PUMP
20					1	2000	2000		STAND BY HTG. PUMP
21	50				1	2000	2000	8	WELL PUMP
22					1	2000	2000		EXIST. IRRIG. WELL PUMP
23									SPARE
24									
25	30				1	7500	7500	4	HOT WATER HEATER
26	100				1	10,000	9100	3	PANEL "C"
27									SPARE
28	125				1	12800	14000	1	PANEL "B"
29	150				1	17050	18700	1/0	PANEL "A"
30					1	18100	17300		PANEL "B"
31									SPARE
32									BLANK
33									
34									
TOTAL						83900	88850		

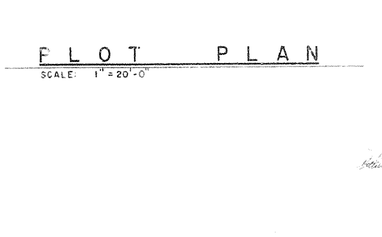
AMPS/PHASE (A) 723 (B) 726
WIRE SIZE CONDUCTORS BY LOCAL POWER CO. CONDUIT SIZE 4"





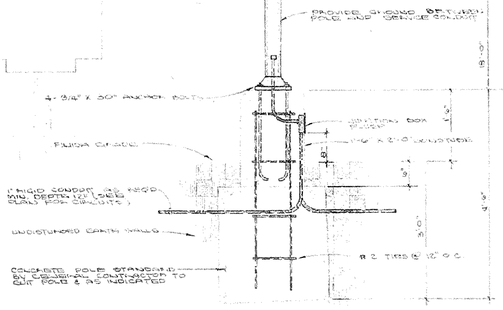


SCHEMATIC —— TELEPHONE SYSTEM



FLOT PLAN

SCALE: 1" = 20'-0"

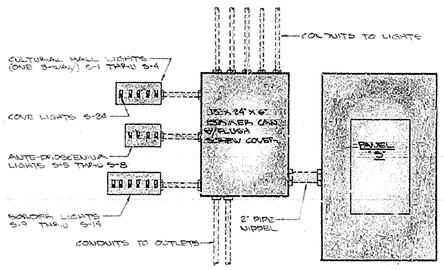


DETAIL 1/E-1 T-22 FIXTURE MOUNTING

136691

APPROVED:	ADDITION & REMODELING OF MENAN 1ST & MENAN 2ND WARDS MEETINGHOUSE, RUBY STAKE, THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS MENAN, IDAHO	SHEET NUMBER E-1 OF 2
DRAWN:	HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	
CHECKED:		
DATE: 8-27-70		

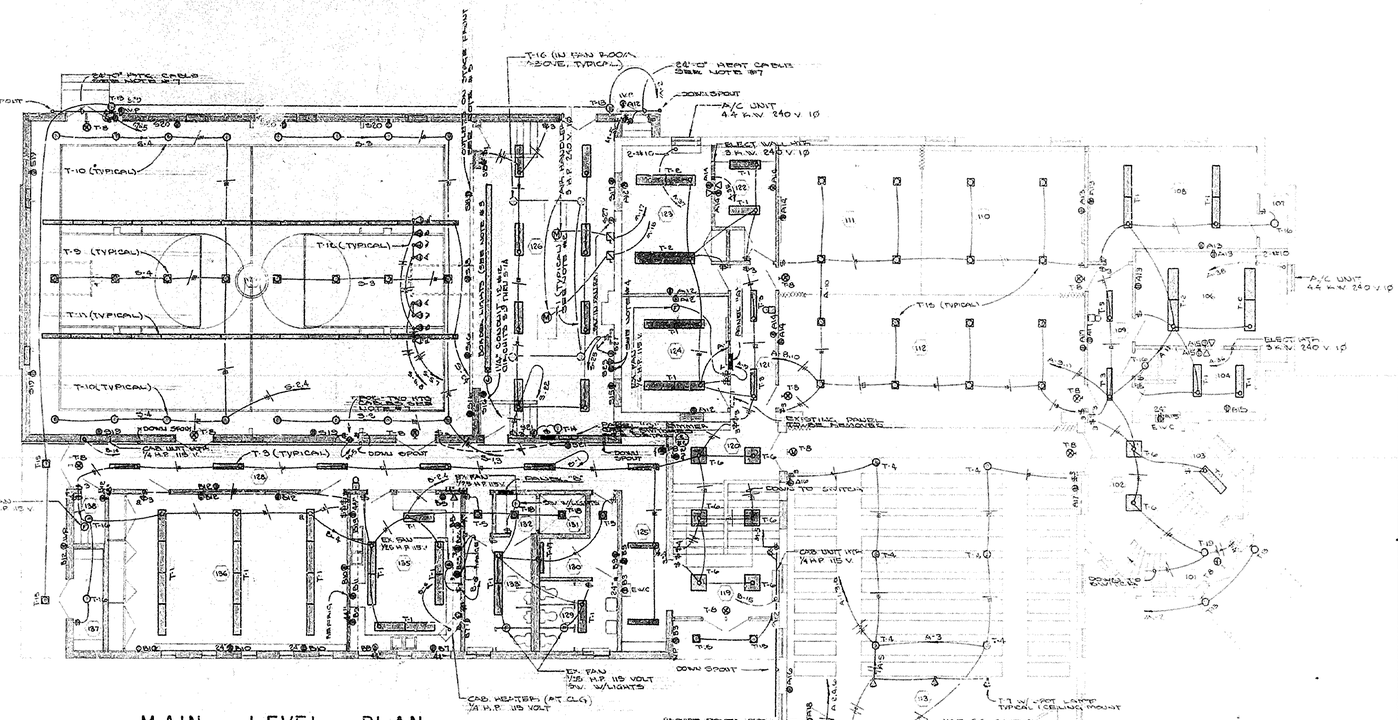
PROJECT NUMBER



NOTES:

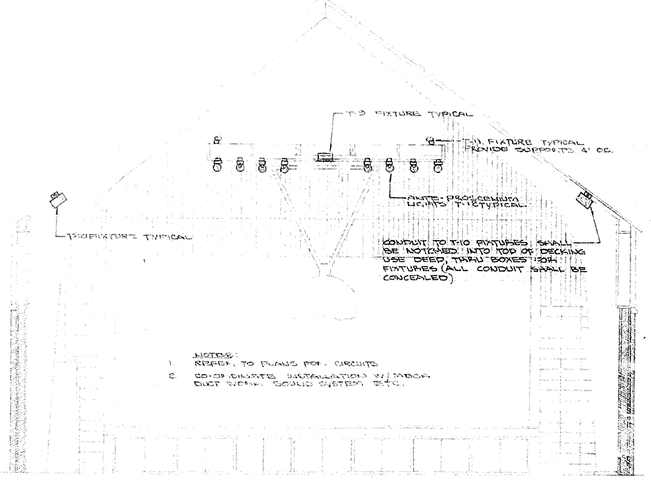
1. LOCATE SINGLE & 3-POLE SWITCHES AS INDICATED FOR CONTROL OF LIGHTS - ENGRAVE SWITCH PLATES TO LIGHTS CONTROLLED
2. LOAD CIRCUITS S-1 THRU S-20 THRU DIMMER CAN (LEAVE 15 AMPERES SPARE) PULL NEUTRAL FOR EACH CIRCUIT THRU DIMMER.

DETAIL (2/E2) PANEL "S" DIMMER CAN & SWITCH



MAIN LEVEL PLAN

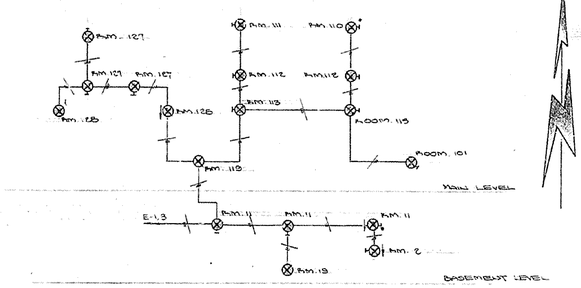
SCALE: 1/8" = 1'-0"



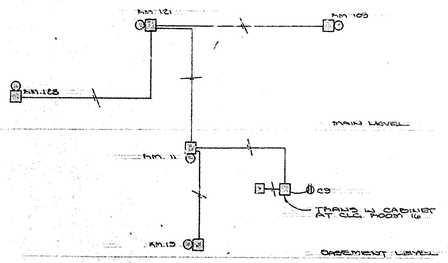
NOTES:

1. REFER TO PLANS FOR CIRCUITS
2. CO-ORDINATE INSTALLATION W/ SPEAKER, EXIT LIGHT, SOUND SYSTEM, ETC.

DETAIL (1/E2) CULTURAL HALL FIXTURE MOUNTING



SCHEMATIC —— EXIT LIGHT SYSTEM



SCHEMATIC —— CLASSROOM SIGNAL SYSTEM

NOTES

1. IN EXIST AREAS WHERE NEW FIXTURES ARE INSTALLED, EXISTING FIXTURES SHALL BE REMOVED & CEILING REPAIRED (AS PER ARCHITECT) EXISTING FIXTURES TO REMAIN PROPERTY OF THE OWNER. NEW SWITCHES, CONVENIENCE OUTLETS, COVER PLATES & ALL WIRING SHALL REPLACE EXISTING SYSTEM, EXISTING CONDUIT SHALL BE USED WHERE POSSIBLE.
2. STAGE LIGHTS (T-1) SHALL BE SUSPENDED BY CHAIN & FLEX CONDUIT SUCH THAT THEY MAY BE LOWERED TO A POINT 3 FEET BELOW THE PROSCENIUM ARCH. CO-ORDINATE INSTALLATION W/ STAGE CYCLORAMA.
3. BORDER LIGHT TO BE SUCH AS ELECTRO CONTROLS # ACM 25-6C (225/4C 6 PDC/2C). WIR PROVIDE EA 150 WATT PAR 38 FL. LAMPS - COLORS, SIX EACH RED, BLUE, AMBER, & WHITE SUPPORT BORDER LIGHT FROM CLG. W/ CHAINS & FLEX CONDUIT (FROM CEILING, 3' O.C.) LEVEL 12" ABOVE THE BOTTOM OF THE APRON OR VALANCE (WHICH EVER IS LOWER) LEAVE SLACK SUCH THAT BORDER LIGHT MAY BE LOWERED 3 FEET BELOW APRON.
4. PROVIDE CONVENIENCE OUTLET & TELEPHONE OUTLET AT LOCATION OF SOUND AMP. (ON STAGE) CO-ORDINATE W/ SOUND SYSTEM SUPPLIER.
5. MOUNT OUTLETS ON STAGE FRONT - USE STAINLESS STEEL COVER PLATE.
6. INSTALL 5 SWITCHES (TWO 3 WAY & THREE 1 POLE) FOR CONTROL OF CHAPEL LIGHTS
7. INSTALL HEAT CABLE, FULL LENGTH, OF ALL GUTTERS & DOWN SPOUTS AS INDICATED ON THE PLANS. CABLE TO BE SECURED WITH CLIPS. TO KEEP THEM APART WITH EXCESS CABLE COILED BACK. USE CUTTER ON DOWN SPOUTS. PROVIDE 5 CABLES AS INDICATED ON PLAN. TWO 24'-0" HEATS EACH, ONE 4'-0" & TWO @ 22'-0", EACH CABLE TO BE COMPLETE W/A T-STAT ALL CABLE TO BE 115 V. INSTALL A DUPLEX OUTLET ADJ. TO ROOF CUTTER & AND CIRCUIT THRU A SWITCH IN ROOM # 10

1366-92

APPROVED	ADDITION & REMODELING OF MEMORIAL 2ND WARDS ARBITRAMOUSE RIGBY WARDS THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS. REXBURG, IDAHO	SHEET NUMBER E-2 OF 3
CHECKED	HAROLD E. COLLARD ARCHITECT A.I.A. IDAHO FALLS, IDAHO	
DRAWN		

PROJECT NUMBER

PANEL E TYPE NQOB VOLTS 120/240
LOCATION ROOM 121 FLOOR MAIN MOUNTING FLUSH
MAIN 225 AMP LUGS BOTTOM FEED BUS 20"X25"X4"

CIR NO.	BREAKER AMP	POLE	NO. OUTLETS LTS	C.O.	MISC.	LOAD A	LOAD B	WIRE SIZE	REMARKS
1	20	1	8			1800		12	CHAPEL LIGHTS
2			6			1200			
3			6				1800		CHAPEL RECESSED FIX
4			5			1400			CHAPEL LIGHTS
5			5				750		RECEPTS ON A-B-C
6			3			850			DOUBLE SPOTS
7			8			750			STORAGE & A/C
8			8				1400		
9			8				1200		
10			8			750			
11			8			1200			
12			6				1550		
13			5				1000		
14			6			1200			
15			4				1200		
16			3			1000			ELECT WATER COOLER
17			3				1000		
18			3			1000			
19			2				600		SOUND AMPLIFIER
20			2					500	EX FAN RM 134
21			2				1000		
22									SPARE
23									
24									
25									
26									
27									
28									
29									BLANK
30									
31									
32									
33									
34									
35			1			1500	1500	12	WALL HEATER RM 122
36			1			1500	1500		RM 124
37	30		1			2200	2200	10	A/C UNIT RM 123
38			1			2200	2200		RM 102
39									
40									
41									
42									
TOTAL						17,050	18,700		

AMPS/PHASE (A) 142 (B) 156
WIRE SIZE 1-#1/0 CONDUIT SIZE 2" 225 A

PANEL C TYPE NQOB VOLTS 120/240
LOCATION ROOM 111 FLOOR MAIN MOUNTING FLUSH
MAIN 100 AMP LUGS BOTTOM FEED BUS 20"X25"X4"

CIR NO.	BREAKER AMP	POLE	NO. OUTLETS LTS	C.O.	MISC.	LOAD A	LOAD B	WIRE SIZE	REMARKS
1	20	1	13			1550		12	
2			12			1650			
3			7				1100		
4			9				1750		
5			4			800			
6					3	1000			
7			4				1250		
8					S		1000		
9					P	1000			SIGNAL SYSTEM (E-2)
10					A	1000			
11					C		1000		
12					E		1000		
13									SPARE
14									
15									
16									
17			2			1500	1500	12	WALL HEATER RM 4
18			1			1500	1500		RM 5
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
TOTAL						10,000	10,100		

AMPS/PHASE (A) 88 (B) 89
WIRE SIZE 3-#3 CONDUIT SIZE 1/4 100 A

PANEL B TYPE NQOB VOLTS 120/240
LOCATION ROOM 128 FLOOR MAIN MOUNTING FLUSH
MAIN 225 AMP LUGS BOTTOM FEED DIM 20"X 25 X4"

CIR NO.	BREAKER AMP	POLE	NO. OUTLETS LTS	C.O.	MISC.	LOAD A	LOAD B	WIRE SIZE	REMARKS
1	20	1	15			1100		12	CORRIDOR & STAIRWAY
2			11		3	1800			EX SIGN RMS 132,133 & 129
3				4	1		1000		ELECT WATER COOLER
4			5		1		1600		EX FAN ROOM 136
5				2	1	1000			
6					1	500			CAB HTR RM 131
7				3			1000		
8					1		1000		EX FAN RM 135
9				2		1000			
10				4		1000			
11				\			1000		REFRIGERATOR
12				5			1000		
13				1		1000			
14					1	700			UNIT HEATER RM. 126
15					1		700	1	UNIT HEATER RM. 129
16									SPARE
17									
18									
19									
20									
21									
22									
23			2						
24									
25	50				1	5000	5000	8	HANGERS RM. 130
26					1	5000	5000		
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
TOTAL						18100	17300		

AMPS/PHASE (A) 157 (B) 150
WIRE SIZE 3-#1/0 CONDUIT SIZE 2" 150 A

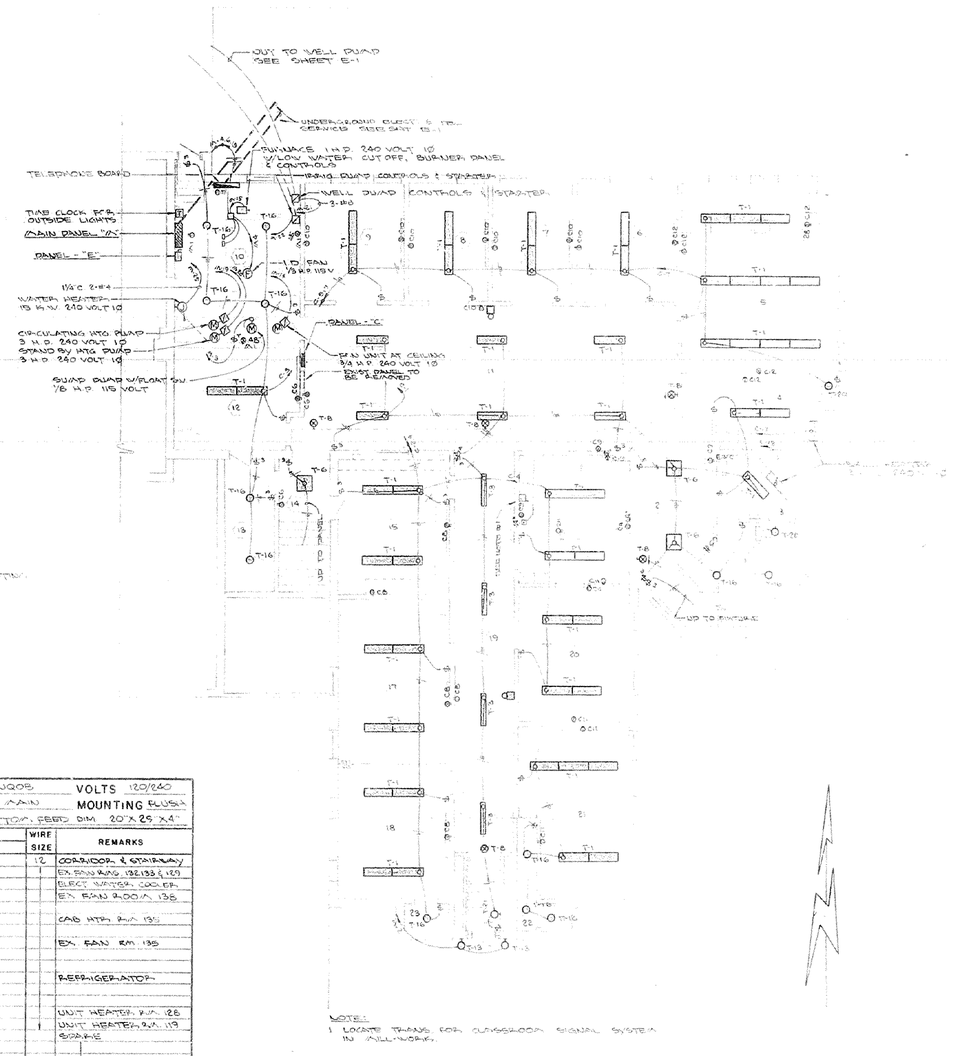
LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	MOUNTING	LAMPS
(3) T-1	LITHONIA	LB 240-LD	CEILING	2-F40/CW
(3) T-2	LITHONIA	LB 440-LD	CEILING	4-F40/CW
(3) T-3	LITHONIA	CB 140-LD	CEILING	1-F40/CW
T-4	SILV-A-LITE CRAFT	C2737 W/60° STEA	CEILING	6-75 A.
T-5	KIRLIN	1202	RECESSED	1-100 A.
(3) T-6	DAYBRITE	2X24-383-LD	CEILING	4-F20 T12/CW
T-7	SWIVELIER	22211 S.A. W/LOUVER	AS NOTED	1-150 P/SP & FL
(1) T-8	DAYBRITE	38116	CEILING OR WALL @ T-6	AS REQUIRED
T-9	KIRLIN	1216-10	RECESSED	1-300 /A
T-10	KIRLIN	4311-10	CEILING	1-300 /A
T-11	LITHONIA	5140 HBG W/AS-40	SEE DETAIL (4)	1-F40/CW
(2) T-12	SWIVELIER	22951 S.A. W/LOUVER & FILTER	CEILING	1-300 PAR 56/SC
T-13	MARLCO	B 385 VT	WALL @ T-6'	2-75 A.
T-14	SWIVELIER	L 1465	WALL @ 8'-0"	1-75 P30/FL
T-15	KIRLIN	1209	RECESSED	1-150 A.
T-16	GENERAL ELECT.	GE 5740-7	CEILING	1-150 A.
T-17	DAYBRITE	A 8740 W	WALL @ 6'-6"	2-F40/CW
T-18	MARLCO	MR 61	RECESSED	1-75 A.
T-19	MARLCO	SP 31 24° STE/A	CEILING	1-200 A.
T-20	DRESCOLITE	CFX-10	CEILING	1-150 A.
T-21	DRESCOLITE	WB-16	WALL @ 7'-0"	1-100 A.
T-22	GENERAL ELECT.	07086-2215 240 VOLT	SEE DETAIL (11)	1-H175A38-22
T-23				
T-24				

(1) REFER TO PLANS FOR DIRECTIONAL ARROWS

(2) T-12 FIXTURES TO BE COMPLETE W/29706 LOUVER & COLORED FILTERS AS PER PLAN (R-AMBER, W-WHITE, B-BLUE, G-GREEN)

(3) ALL SURFACE MOUNT FLUORESCENT FIXTURES TO HAVE LOW DENSITY BALLAST FOR DIRECT MOUNTING TO COMBUSTIBLE CEILING TILE.



NOTE:
1 LOCATE THANK FOR CLASSROOM SIGNAL SYSTEM IN WALL-NOW?

BASEMENT LEVEL PLAN

SCALE 1/8"=1'-0"

126002

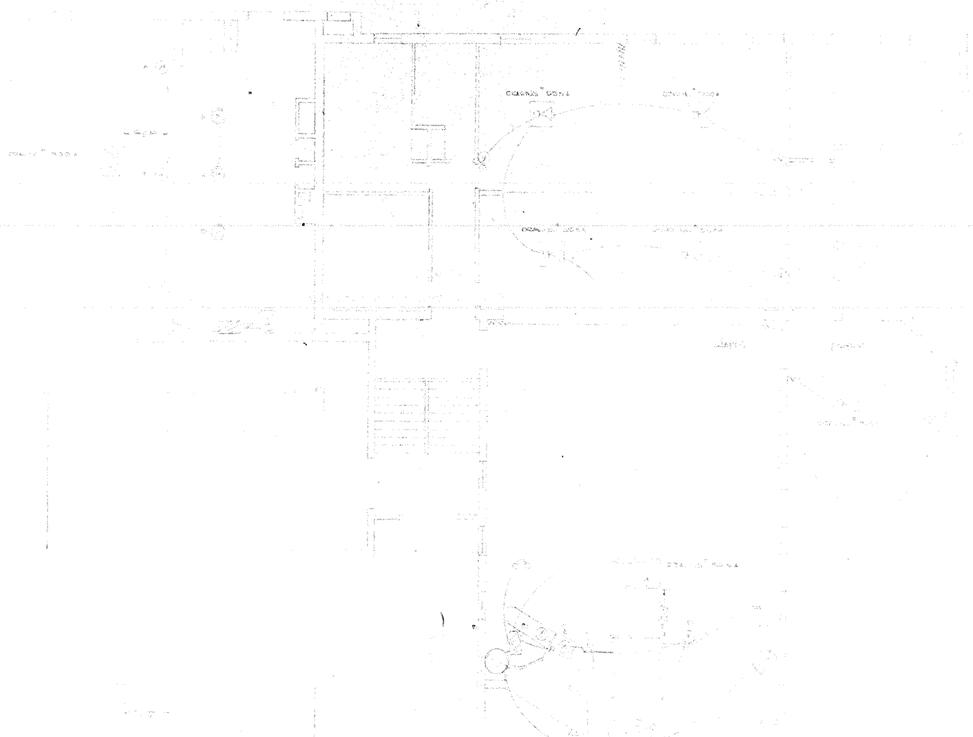
ADDITION & REMODELING OF THE MCCALL 1ST WARD CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS MCCALL IDAHO

SHEET NUMBER E-3 OF 3

APPROVED
CHECKED
DRAWN

HAROLD E. COLLARD
ARCHITECT A.I.A.
IDAHO FALLS. IDAHO

PROJECT NUMBER



SOUND SYSTEM SYMBOLS

- AMPLIFIER
- RECEIVING OUTLET
- VOLUME CONTROL BOX (2 3/4" x 2 3/4" x 2 1/2" DEEP)
- MICROPHONE OUTLET
- CEILING MICROPHONE OUTLET
- SEMI-EXPOSED LOUDSPEAKER
- CEILING RECESSED LOUDSPEAKER
- SPLIT TWO WAY SYSTEM WITH EXTRA TWEETER
- TWO WAY LOUDSPEAKER SYSTEM

LIST OF APPROVED BIDDERS

ELECTRO MEDIA
1225 MAJOR
SALT LAKE CITY, UTAH

C.D.R. ELECTRO SYSTEMS
188 SO. 2 nd EAST
SALT LAKE CITY, UTAH

GENERAL COMMUNICATIONS
612 E. 3900 SOUTH
SALT LAKE CITY, UTAH

EVANS SUPPLY CO.
503 W. 2 ND NORTH
SALT LAKE CITY, UTAH

GENE'S RADIO & SOUND
RT. 1 BOX 351
IDAHO FALLS, IDAHO 83401

NORM B. SCHREIER
1047 CANAL AVE.
IDAHO FALLS IDAHO 83401

ALL CONTRACTORS SHALL BE FAMILIAR WITH THESE SPECIFICATIONS

EACH PAIR IS TO BE IDENTIFIED AT BOTH ENDS OF EACH RUN

53 6004

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS
OFFICE OF THE BUILDING COMMITTEE
ASSISTANT TO THE PRESIDENT
SALT LAKE CITY, UTAH

DATE

REVISIONS

DRAWN BY

CHECKED BY

SHEET NO.

C1

MENAN 1, 2

MENAN IDAHO STAKE

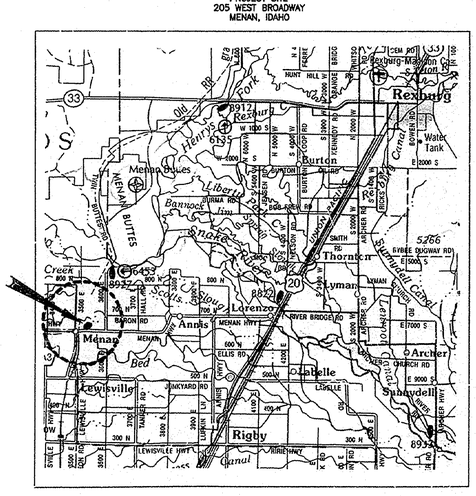
MENAN, MAIN & BROADWAY **IDAHO**

PROPERTY #: 507 - 2638

APRIL 1995

AS-BUILT RECORD DRAWINGS 25 JULY 1996

PROJECT SITE
205 WEST BROADWAY
MENAN, IDAHO



AREA MAP

BID DOCUMENT REVIEW		
DATE	DESCRIPTION	SIGNATURE
	CONSULTANT COORDINATION MEETING APPR'S OR AREA ARCHITECT/ARCHITECTURAL COORDINATOR'S SIGNATURE REQUIRED.	
	THIS IS TO CERTIFY THAT THE STAKE/MISSION PRESIDENT HAS REVIEWED THESE DRAWINGS AND SPECIFICATIONS AND FINDS THEM ACCEPTABLE AND IS IN CONCURRENCE. STAKE PRESIDENT'S SIGNATURE REQUIRED	
	DOCUMENTS HAVE BEEN REVIEWED BY GOVERNMENTAL JURISDICTIONS AND PERMITS ARE SECURED. CONTRACT ARCHITECT'S SIGNATURE REQUIRED	

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

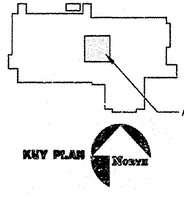
JRW & ASSOCIATES

ARCHITECTURE - ENGINEERING
CONSTRUCTION MANAGEMENT

(208) 359-2309
Fax (208) 359-2271

49 PROFESSIONAL PLAZA
REXBURG, IDAHO 83440

DRAWING INDEX	
	GENERAL
C-1	COVER SHEET & INDEX TO DRAWINGS
	SITE DEVELOPMENT
SD-1	SITE PLAN
	ARCHITECTURAL
A-1	FLOOR PLANS
A-2	ELEVATIONS, DETAILS, SECTIONS, SCHEDULES
A-3	REFLECTED CEILING PLANS
	MECHANICAL
M-1	FLOOR PLAN MECHANICAL
	ELECTRICAL
E-1	FLOOR PLAN ELECTRICAL



07552

STATE OF IDAHO

JRW & ASSOCIATES
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P.O. Box 50691
Idaho Falls, Idaho 83405
(208) 524-0212

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315 West Center
Pocatello, Idaho 83201
(208) 233-0501
Fax (801) 233-0529

ELECTRICAL ENGINEERING
ENGINEERED SYSTEMS ASSOC.
315 West Center
Pocatello, Idaho 83201
(208) 233-0501
Fax (208) 233-0529

PROJECT: MENAN 1, 2 MENAN IDAHO STAKE IDAHO MENAN,

DRAWING TITLE: COVER SHEET AND INDEX TO DRAWINGS

PLOT DATE: 4-20-96 PROJECT No. 9413-01-013 PLOT SCALE: 1=96	DRAWN BY: REVIEWER	JOB NO. 013	DATE: APRIL '95
		CHECKED BY: JRW	

DRAWING NO. FILE: C-1 OF 1

5-1-8002

24X

GENERAL NOTES

(A) CONTRACTOR & SUBCONTRACTOR SHALL FIELD VERIFY DIMENSIONS, EXISTING CONDITIONS & AREAS AFFECTED BY CONSTRUCTION PRIOR TO SUBMISSION OF BIDS & BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF CONDITIONS OR PROBLEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS.

(B) CONTRACTOR IS RESPONSIBLE FOR REPAIRS DUE TO DAMAGE OF EXISTING WORK AS A RESULT OF NEW WORK. MATCH EXISTING MATERIALS / FINISHES WHERE REPAIRS ARE NECESSARY & AS DIRECTED BY ARCHITECT.

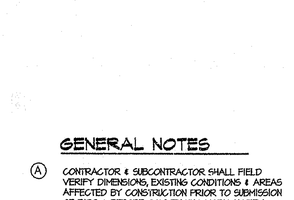
(C) REMOVE RUBBISH / DEBRIS FROM PROPERTY. DISPOSE OF TRASH PROPERLY USING APPROVED DISPOSAL SITES FOR TYPE OF MATERIAL ENCOUNTERED. CONSULT LOCAL AUTHORITIES AS REQUIRED.

(D) VERIFY LOCATION OF EXISTING UTILITIES WITH LOCAL AUTHORITIES. UNDERGROUND UTILITIES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY OWNER OR ITS REPRESENTATIVE. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR DAMAGES OCCASIONED BY FAILURE TO LOCATE AND PRESERVE UTILITY LINES.

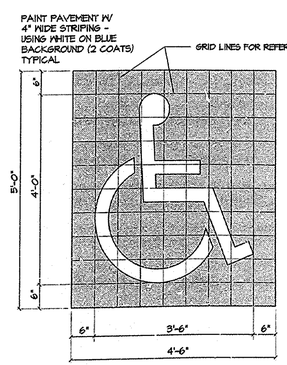
(E) BASE BID TO INCLUDE 1500 LINEAL FEET OF CRACK REPAIR.

PLAN NOTES

1. EXTEND ASPHALT PAVING
2. PAINT STRIPES TO BE 4" WIDE - TYPICAL.
3. SHADED AREA INDICATES EXTENT OF PARKING AREA TO BE SEALED, CRACK REPAIRED & RE-STRIPED
4. REMOVE EXISTING DAMAGED PAVEMENT AND BASE TO 30" BELOW ASPHALT. INSTALL COMPACTED SUB-BASE & BASE. INSTALL NEW ASPHALT.
5. NOT USED
6. NOT USED
7. PAINT STRIPES 4" WIDE ANL. 2'-0" O.C. DIAGONAL LINES.
8. STRIP EXISTING VEGETATION LAYER & TOP SOIL LAYER AS REQUIRED.
9. NOT USED
10. REMOVE EXISTING TREE STUMP
11. REPAIR EXISTING PAVEMENT CUT & FILL IN WITH NEW ASPHALT.
12. MATCH EXISTING ELEVATION.
13. BUILD UP NEW ASPHALT GRADE ELEVATION 5" ABOVE EXISTING.

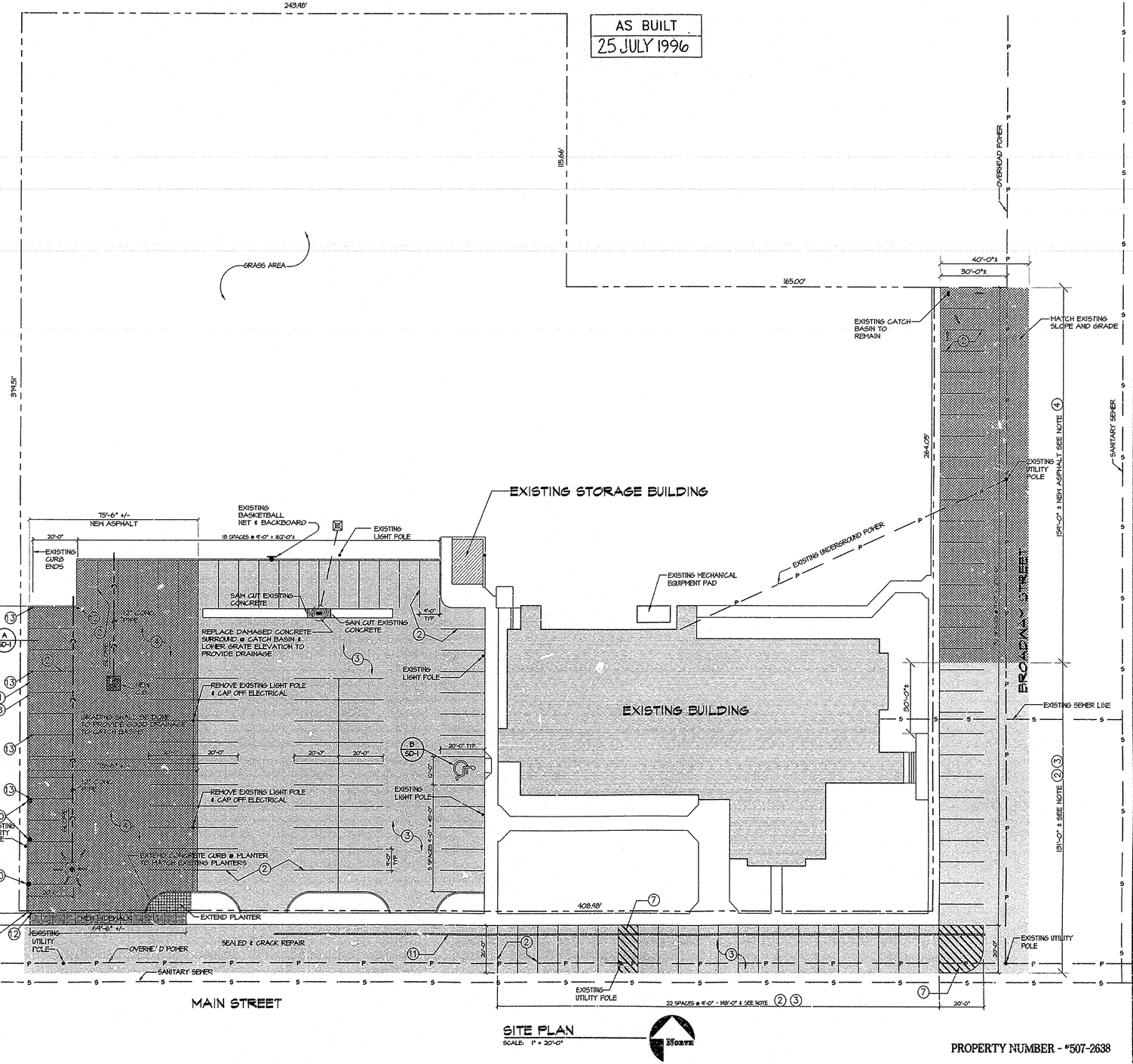


CURB DETAIL (A / SD1)
SCALE: 1" = 1'0"



PAVEMENT MARKER
BARRIER FREE SYMBOL (B / SD1)
SCALE: N.T.S.

AS BUILT
25 JULY 1996



SITE PLAN
SCALE: 1" = 20'-0"
NORTH

PROPERTY NUMBER - #507-2638

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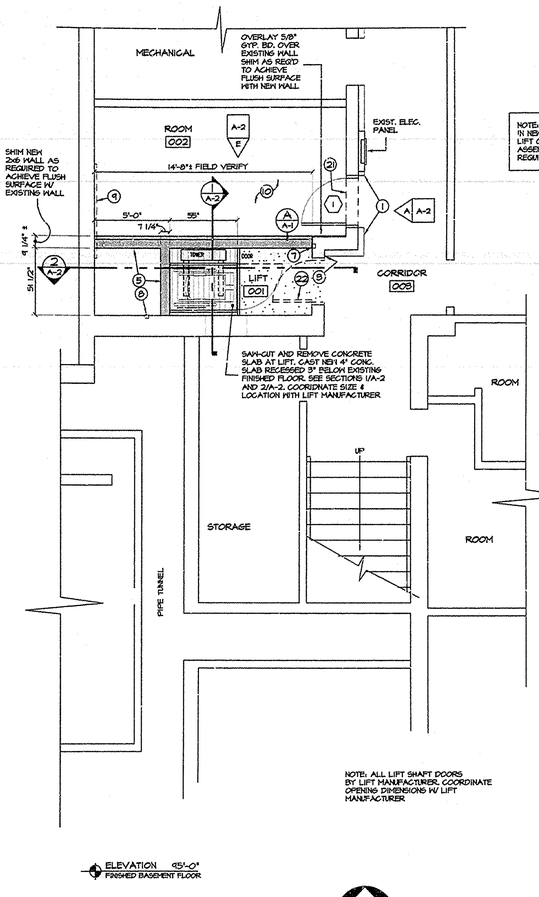
PROJECT: MENAN I, 2 — MENAN, IDAHO
MENAN IDAHO STAKE
DRAWING TITLE: SITE PLAN

ISSUE DATE: 10-31-95	JOB NO. 013	DATE: APRIL 145
PROJECT No. 8413-01-013		
PYST SCALE: 1"=20'	DRAWN BY: RMS	CHECKED BY: JRW

DRAWING NO. SD-1
OF 1

24X

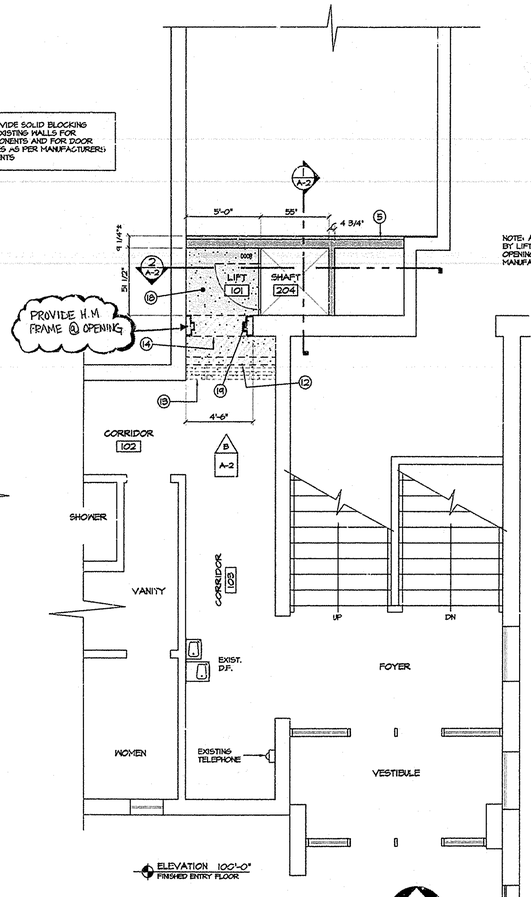


ELEVATION 95'-0"
FINISHED BASEMENT FLOOR

BASEMENT FLOOR PLAN

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

NOTE: PROVIDE SOLID BLOCKING IN NEW & EXISTING WALLS FOR LIFT COMPONENTS AND FOR DOOR ASSEMBLIES AS PER MANUFACTURER'S REQMENTS



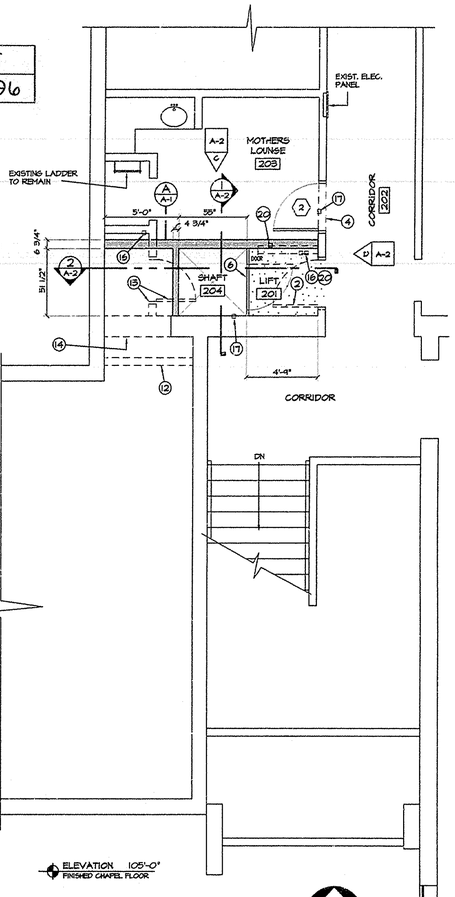
ELEVATION 100'-0"
FINISHED ENTRY FLOOR

ENTRY LEVEL FLOOR PLAN

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

AS BUILT
25 JULY 1996

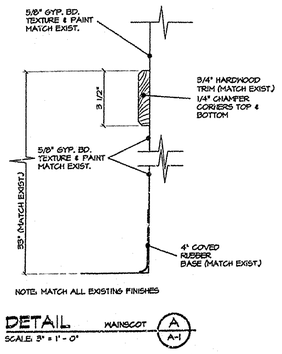
NOTE: ALL LIFT SHAFT DOORS BY LIFT MANUFACTURER. COORDINATE OPENING DIMENSIONS W/ LIFT MANUFACTURER



ELEVATION 105'-0"
FINISHED CHAPEL FLOOR

CHAPEL LEVEL FLOOR PLAN

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



NOTE: MATCH ALL EXISTING FINISHES

DETAIL WAINSCOT

SCALE: 3" = 1'-0"

FLOOR FINISH LEGEND

- NEW CARPET
- SEALED CONCRETE

NOTES

1. PATCH & REPAIR EXISTING WAINSCOT AS REQUIRED MATCH EXISTING
2. REMOVE EXISTING WOOD DOOR & HARDWARE RETURN TO OWNER. EXISTING FRAME TO REMAIN RE-USE EXISTING HARDWARE
3. PATCH & REPAIR EXISTING WAINSCOT AS REQUIRED MATCH EXIST. SIM. TO DETAIL A/A-1
4. SAW - CUT OPENING IN EXISTING FRAMED WALL PATCH & REPAIR EXISTING WAINSCOT, CARPET & BASE AS REQ'D
5. 2"x6" STUDS AT 16" O/C
6. SAW CUT HOLE IN EXISTING WOOD FLOOR SYSTEM. COORDINATE SIZE OF HOLE W/ LIFT MANUFACTURER HEADER AROUND OPENING W/ (2) 2x MEMBERS MATCH DEPTH OF EXISTING WOOD JOISTS (UNLESS NOTED OTHERWISE)
7. REMOVE EXISTING LIGHT SWITCH - SEE ELEC. PATCH & REPAIR HOLE TEXTURE AND PAINT TO MATCH EXIST.
8. REMOVE EXISTING FAN SWITCH SEE MECH.
9. RELOCATE EXISTING CHALK/TACK BOARD LOCATION BY OWNER
10. PATCH & REPAIR ALL EXISTING SURFACES AS REQ'D TO MATCH EXISTING
12. REMOVE EXISTING WOOD PANEL AND WALL
15. REMOVE EXISTING COAT RACK & RETURN TO OWNER

NOTES

14. SAW-CUT OPENING IN EXISTING CONCRETE WALL PATCH & REPAIR TO RECEIVE PLASTER FINISH - TEXTURE & PAINT MATCH EXISTING
15. REMOVE EXISTING DOOR, FRAME & HARDWARE AND PORTION OF EXISTING WALL PATCH & REPAIR EXISTING WALLS & CEILING AS REQUIRED MATCH EXISTING FINISHES
16. REMOVE EXISTING LIGHT SWITCH - SEE ELEC.
17. REMOVE EXISTING ELEC. OUTLET - SEE ELEC. PATCH & REPAIR HOLE TEXTURE AND PAINT TO MATCH EXIST.
18. FLOOR: 19/32" T & G APA STURD - I - FLOOR OR 5/8" PARTICLE BD. TYPE I GRADE M-1 OVER 15# FELT OVER 15/32" APA PLYMD. W/ EXT. GLUE EXPOSURE 1 - GLUE & NAIL TO JOISTS. JOISTS: 2x10's AT 16" O/C
19. PATCH EXISTING FLOOR TO ACHIEVE LEVEL SURFACE TO ELEVATION 100'-0" - MATCH EXISTING FINISH (CROSS - HATCHED AREA)
20. REMOVE EXISTING VOLUME CONTROL - SEE ELEC.
21. SAW - CUT OPENINGS IN EXISTING CONCRETE WALL FOR NEW DOOR
22. REMOVE EXISTING DOOR & HOLLOW METAL FRAME & RETURN TO OWNER PATCH & REPAIR EXISTING CONCRETE WALL - PLASTER FINISH MATCH EXISTING - RE-USE EXISTING HARDWARE

PROPERTY NUMBER - # 507 - 2638

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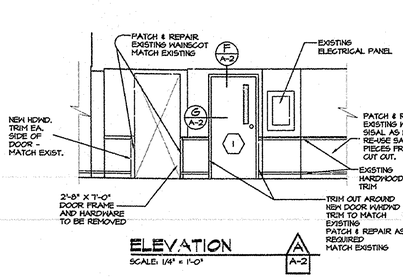
PROJECT: MENAN I, 2 MENAN IDAHO STAKE — MENAN, IDAHO

DRAWING TITLE: FLOOR PLAN DETAILS

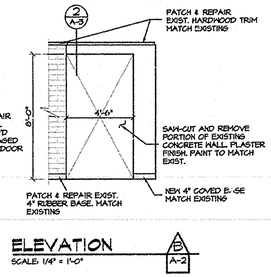
PLOT DATE: 4-28-95	JOB NO: 013
PLOT SCALE: 1=1	
PLOT DEVICE:	
DRAWN BY: RAWG/GDR	DATE: APRIL '95
CHECKED BY: JRW	

DRAWING NO. A-1
FILE: 013P01
OF 3

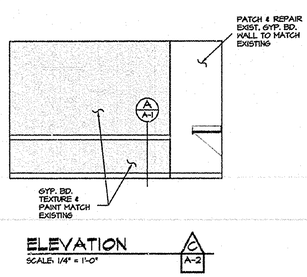
24X



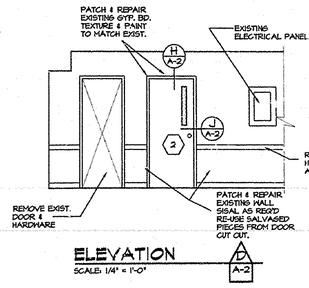
ELEVATION A A-2
SCALE: 1/4" = 1'-0"



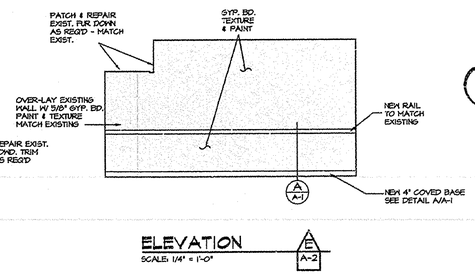
ELEVATION B A-2
SCALE: 1/4" = 1'-0"



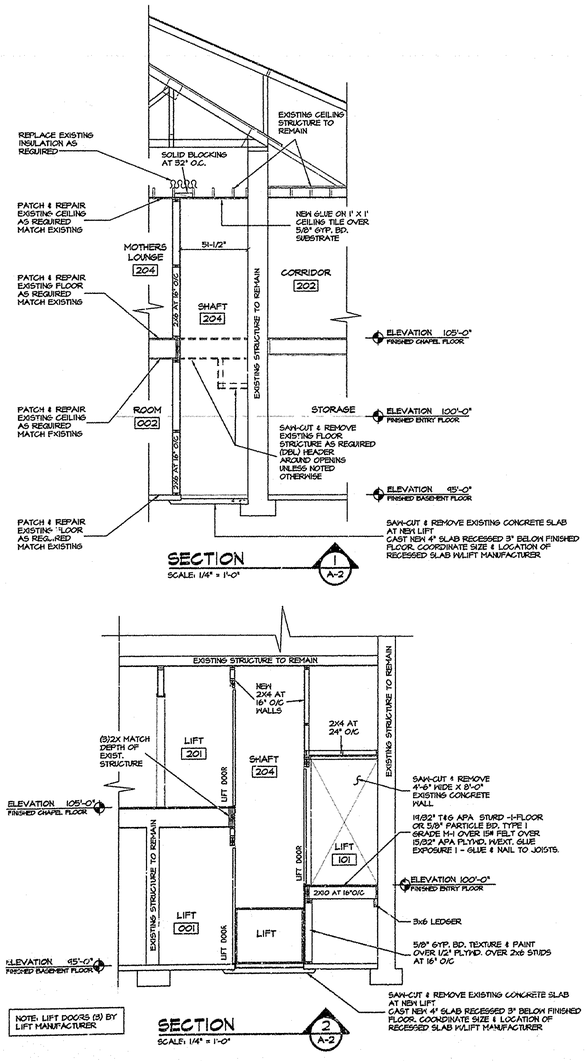
ELEVATION C A-2
SCALE: 1/4" = 1'-0"



ELEVATION D A-2
SCALE: 1/4" = 1'-0"



ELEVATION E A-2
SCALE: 1/4" = 1'-0"



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

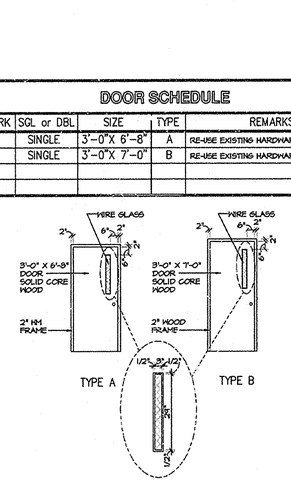
NOTE: LIFT DOORS (3) BY LIFT MANUFACTURER

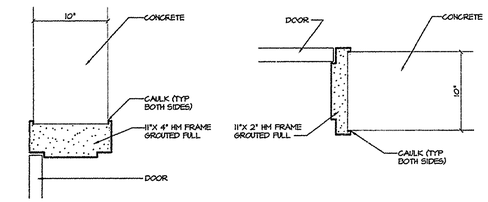
SECTION 2 A-2
SCALE: 1/4" = 1'-0"

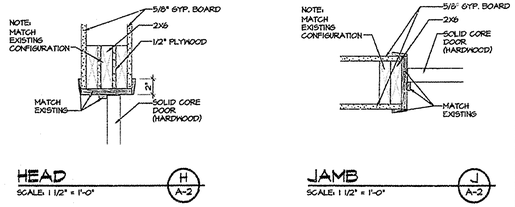
AS BUILT
25 JULY 1996

DOOR SCHEDULE

MARK	SGL or DBL	SIZE	TYPE	REMARKS
1	SINGLE	3'-0"X 6'-8"	A	RE-USE EXISTING HARDWARE
2	SINGLE	3'-0"X 7'-0"	B	RE-USE EXISTING HARDWARE







ROOM FINISH SCHEDULE

NO.	NAME	FLOOR: PATCH & REPAIR - MATCH EXISTING AS REQUIRED	FLOOR: CARPET - MATCH EXISTING	FLOOR: SEALED CONCRETE	BASE: EXISTING BASE TO REMAIN PATCH & REPAIR AS REQUIRED	BASE: 4" RUBBER COVED	WAINSCOT: SEE DETAIL A/A-1	WAINSCOT: SEE DETAIL B/A-1	WAINSCOT: SEE DETAIL C/A-1	WAINSCOT: PATCH & REPAIR AS REQUIRED AT DOOR, CUT, OUT MATCH EXISTING	NORTH: PATCH & REPAIR - MATCH EXISTING AS REQUIRED	NORTH: 5/8" TEXTURED & PAINTED GYP. BOARD	EAST: PATCH & REPAIR - MATCH EXISTING AS REQUIRED	EAST: 5/8" TEXTURED & PAINTED GYP. BOARD	SOUTH: PATCH & REPAIR - MATCH EXISTING AS REQUIRED	SOUTH: 5/8" TEXTURED & PAINTED GYP. BOARD	WEST: PATCH & REPAIR - MATCH EXISTING AS REQUIRED	WEST: 5/8" TEXTURED & PAINTED GYP. BOARD	CEILING: PATCH & REPAIR - MATCH EXISTING	CEILING: 1/2 GLUE ON OVER 5/8" GYP. BOARD	CLG. HT.	REMARKS
001	LIFT	6		6		6																EXIST.	1 EXISTING 4" CONCRETE SLAB W/CARPET PATCH AND REPAIR MATCH EXISTING.
002	ROOM	U				2																EXIST.	2 NEW BASE AT SOUTH WALL -PATCH AND REPAIR EXISTING BASE FOR REMAINDER OF WALLS. B/A-1
003	CORRIDOR	1				3																EXIST.	3 SEE DETAIL A/A-1
101	LIFT																					8'-2"	4 EXISTING BASE TO REMAIN. NEW BASE AT PORTION OF SOUTH WALL - MATCH EXISTING, SEE DETAIL C/A-1
102	CORRIDOR																					EXIST.	5 4" COVED RUBBER BASE AT BASEMENT LEVEL ONLY
103	CORRIDOR																					EXIST.	6 SEE FLOOR PLANS & SECTIONS FOR AREAS TO RECEIVE NEW CARPET & FOR AREAS TO RECEIVE SEALED CONCRETE
201	LIFT																					EXIST.	
202	CORRIDOR																					EXIST.	
203	MOTHERS LOUNGE					4																EXIST.	
204	SHAFT					5																EXIST.	

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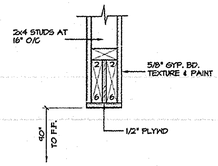
PROJECT: MENAN 1, 2 MENAN IDAHO STAKE MENAN, IDAHO

DRAWING TITLE: ELEVATIONS, DETAILS, SECTIONS, SCHEDULES

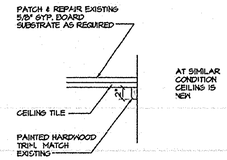
PLOT DATE: 4-8-96
PROJECT No. 9413-01-013
PLOT SCALE: 1=40
JOB NO: 013
DRAWING BY: RVNS
DATE: APRIL '95
CHECKED BY: JRW

DRAWING NO. A-2
FILE: 013-D-1
OF 3

24X



DETAIL 1 A-3
SCALE: 1 1/2" = 1'-0"



DETAIL 2 A3
SCALE: 1 1/2" = 1'-0"

FIXTURE LEGEND

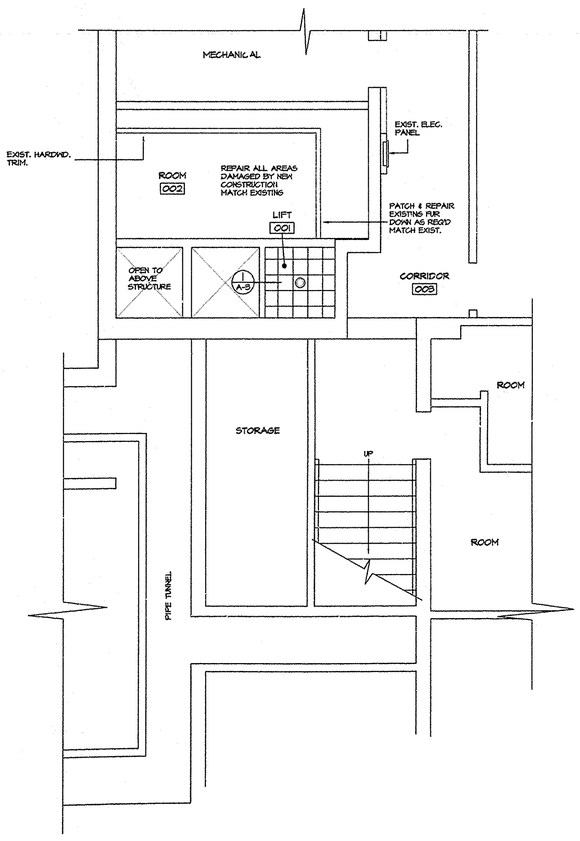
NEW LIGHT FIXTURE SEE ELEC. DRAWING

LEGEND

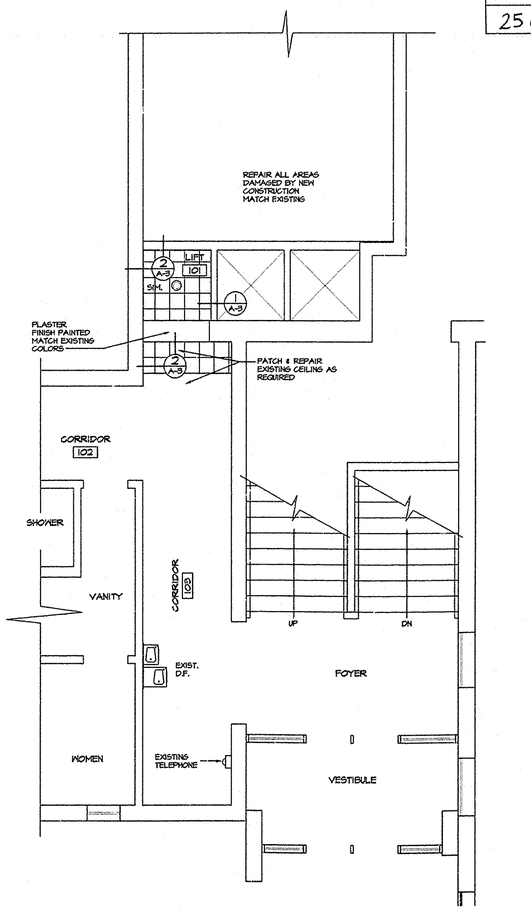
12" X 12" GLUE-UP TILE CEILING SYSTEM OVER 5/8" GYP. BD. SUBSTRATE

EXISTING CEILING – NO NEW WORK

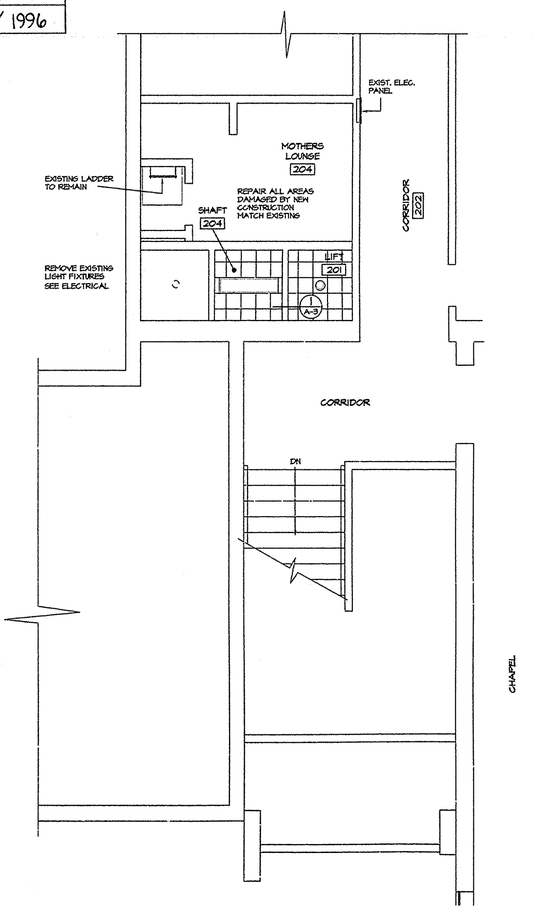
AS BUILT
25 JULY 1996



BASEMENT REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



ENTRY LEVEL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



CHAPEL LEVEL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

PROPERTY NUMBER - * 507 - 2638

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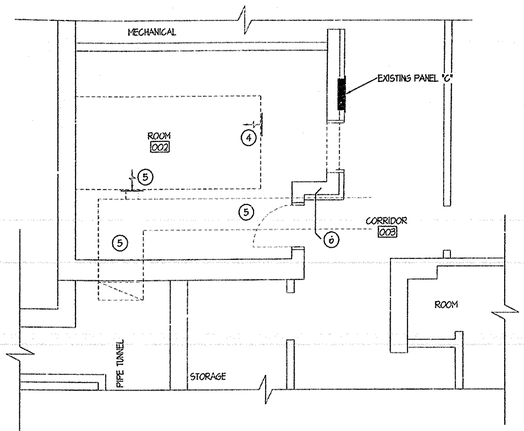
PROJECT: MENAN 1, 2
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE: REFLECTED CEILING PLAN

PLOT DATE: 4-26-95
PROJECT No. 9413-01-013
ADD SCALE: 1=8
DRAWN BY: RVHS
JOB NO: 013
CHECKED BY: JRW
DATE: APRIL '95

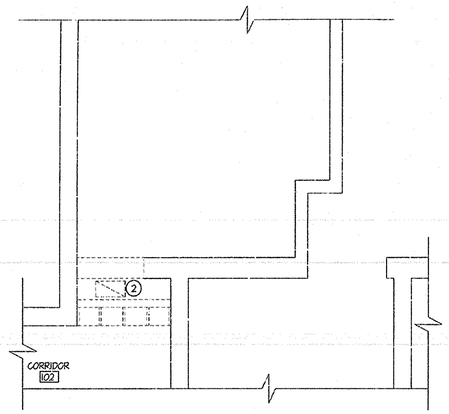
DRAWING NO. A-3
OF 3

24X



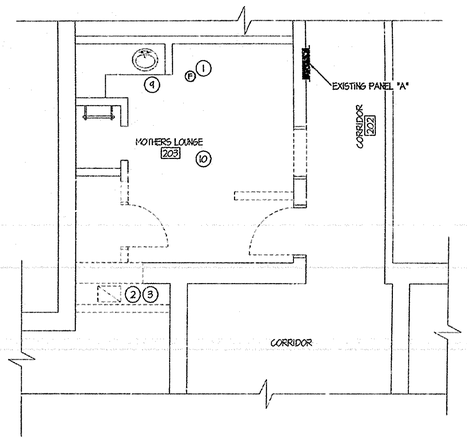
BASEMENT FLOOR PLAN - DEMOLITION

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



ENTRY LEVEL FLOOR PLAN - DEMOLITION

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

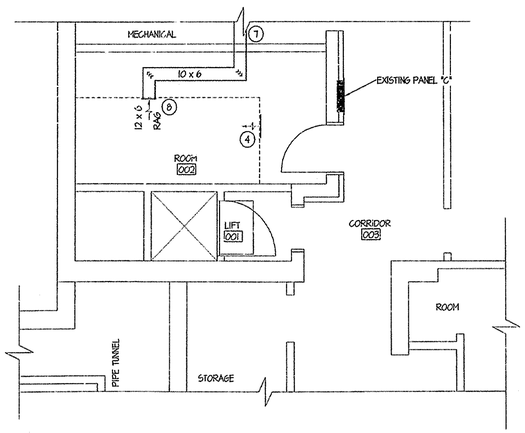


CHAPEL LEVEL FLOOR PLAN - DEMOLITION

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

NOTES:

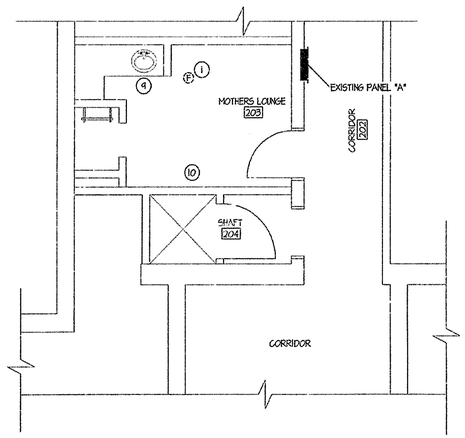
1. EXISTING EXHAUST FAN TO REMAIN.
2. REMOVE EXISTING EXHAUST DUCT IN CHASE.
3. REMOVE EXISTING EXHAUST FAN ON ROOF AND CAP CURB WITH SHEET METAL CAP.
4. EXISTING SUPPLY AIR DUCT; GRILLE TO REMAIN.
5. REMOVE EXISTING EXHAUST GRILLE AND DUCT.
6. CAP EXISTING RETURN DUCT IN CORRIDOR.
7. CONNECT NEW 10 x 6 RETURN DUCT TO EXISTING AIR HANDLER IN BOILER ROOM. CUT AND PATCH WALL AS REQUIRED.
8. INSTALL NEW TITUS 350RL 12 x 6 RAG IN EXISTING FUR SPACE CUT AND PATCH AS REQUIRED.
9. EXISTING PLUMBING TO REMAIN.
10. EXISTING CEILING DIFFUSER TO REMAIN. RELOCATE AS REQUIRED TO MISS NEW CONSTRUCTION.



BASEMENT FLOOR PLAN - MECHANICAL

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

AS BUILT
25 JULY 1996



CHAPEL LEVEL FLOOR PLAN - MECHANICAL

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

JRW & ASSOCIATES
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PROJECT:
MENAN 12
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
FLOOR PLAN MECHANICAL

PLOT DATE: 04-18-95	DRAWN BY: JH	JOB NO: 013	DATE: APRIL '95
PROJECT No. 94050			
PLOT SCALE: 1/8" = 1'-0"			CHECKED BY: DJS

DRAWING NO. FILE: 9405M01
M-1
OF 1

REGISTERED PROFESSIONAL ENGINEER STATE OF IDAHO JAMES L. SUMMERS 4/19/95

E S A ENGINEERED SYSTEMS ASSOCIATES
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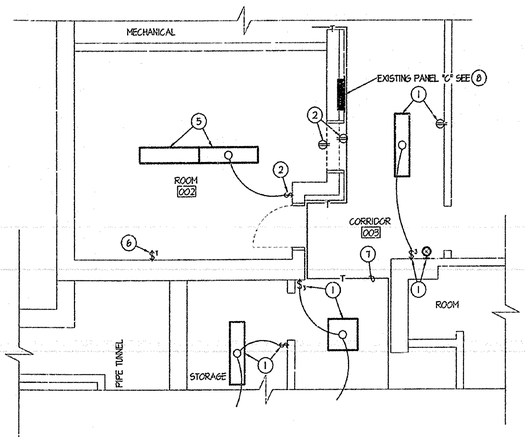
PHONE: (208) 233-0501
FAX: (208) 233-0529

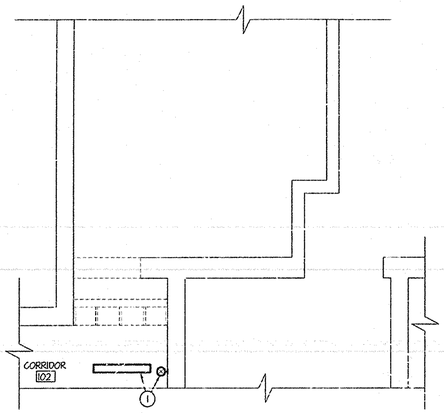
PLOT DATE: 04-18-95
ESA JOB NUMBER: 94050

24X



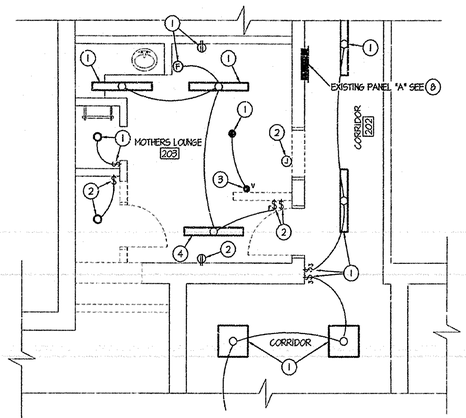
BASEMENT FLOOR PLAN - DEMOLITION

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



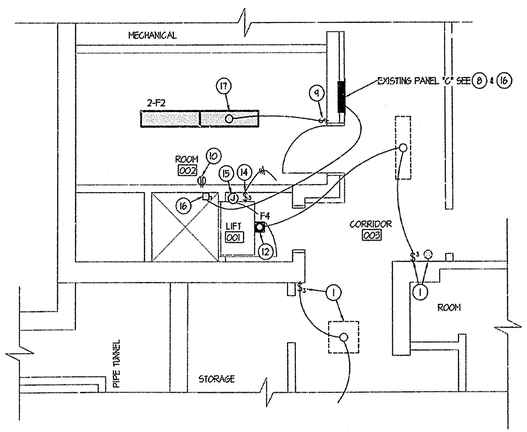
ENTRY LEVEL FLOOR PLAN - DEMOLITION

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



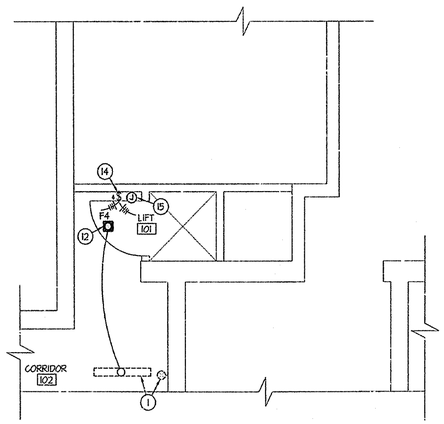
CHAPEL LEVEL FLOOR PLAN - DEMOLITION

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



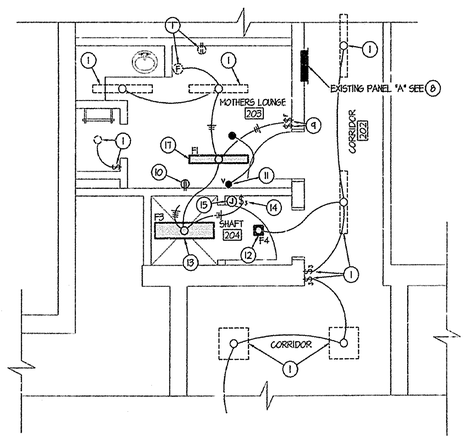
BASEMENT FLOOR PLAN - ELECTRICAL

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



ENTRY LEVEL FLOOR PLAN - ELECTRICAL

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



CHAPEL LEVEL FLOOR PLAN - ELECTRICAL

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

GENERAL NOTES:

1. REFER TO ARCHITECTS PLANS FOR EXTENT OF DEMOLITION REQUIRED FOR NEW WORK.
2. REMOVE ALL ELECTRICAL AS REQUIRED FOR NEW CONSTRUCTION, AND AS SHOWN ON THE PLANS.
3. CONFIRM LOCATIONS OR EXISTING EQUIPMENT, ETC.
4. CONCEAL ALL CONDUITS AND EQUIPMENT IN FINISHED AREAS.
5. UTILIZE EXISTING RACEWAYS WHERE PRACTICAL.
6. COORDINATE WIRING REQUIREMENTS FOR LIFT WITH EQUIPMENT SUPPLIER.

PLAN NOTES:

(1) EXISTING TO REMAIN - REMOVE ONLY AS NECESSARY FOR WIRING CHANGES.

(2) REMOVE ENTIRELY AS NECESSARY FOR NEW WORK. EXTEND EXISTING CIRCUITS AS REQUIRED.

(3) REMOVE VOLUME SWITCH AND RELOCATE AS SHOWN. EXTEND WIRING AS.

(4) REMOVE EXISTING FIXTURE AND RE-USE AS TYPE F1.

(5) REMOVE EXISTING FIXTURE AND RE-USE AS TYPE F2.

(6) REMOVE EXISTING SWITCH ENTIRELY AND WIRING TO EXHAUST FAN ON ROOF.

(7) REMOVE EXISTING SURFACE TELEPHONE CABLE AND RE-ROUTE ABOVE NEW CONSTRUCTION.

(8) EXISTING PANELS TO REMAIN.

(9) NEW SWITCHES AND COVER PLATE - (15 MIN. TIMER FOR EXHAUST FAN)

(10) NEW RECEPTACLE AND COVER PLATE, CONNECT TO EXISTING RECEPTACLE CIRCUIT.

(11) NEW LOCATION OF EXISTING VOLUME SWITCH - RECONNECT TO SOUND SPEAKER.

(12) CONNECT NEW FIXTURE TO EXISTING CIRCUIT AND CONTROL.

(13) CONNECT TO EXISTING LIGHTING CIRCUIT.

(14) 3 AND 4 WAY SWITCH AT EACH LEVEL FOR F3 FIXTURE CONTROL.

(15) LOCATE "J" BOX AT EACH LEVEL WITH 3/4" CONDUIT BETWEEN (FOR LIFT CONTROL) AS DIRECTED BY LIFT SUPPLIER. FROM BASEMENT LEVEL INSTALL CONDUIT TO EQUIPMENT LOCATION AS DIRECTED.

(16) 20 AMP. 2 POLE FUSED DISCONNECT SWITCH FOR LIFT POWER SUPPLY. LOCATION AS DIRECTED BY LIFT SUPPLIER. CIRCUIT TO NEW 20 AMP. 1 POLE BREAKER INSTALLED IN EXISTING PANEL 'C'.

(17) NEW LOCATION OF EXISTING FIXTURE(S) UTILIZE EXISTING CIRCUIT.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG #	MOUNTING	LAMPS	REMARKS
F1	EXISTING FIXTURE TO BE RE-USED		SURFACE ON CEILING	1-F40/SP30	CLEAN AND RELAMP
F2	EXISTING FIXTURE TO BE RE-USED		SURFACE ON CEILING	2-F40/SP30	CLEAN AND RELAMP
F3	LITHONIA	LB-240 A-120	SURACE ON CEILING	2-F40/SP30	
F4	PRESCOLITE	PBX-TO44S	RECESSED	2-F18BX/SPX27	

ELECTRICAL SYMBOL SCHEDULE

	FLUORESCENT FIXTURE (TYPICAL)		PANELBOARD
	EXIT LIGHT (DIRECTIONAL ARROWS ON DRAWINGS)		BRANCH CIRCUIT - CONCEALED
	CEILING MOUNTED INCAN. OR HID FIXTURE		BRANCH CIRCUIT - IN FLOOR OR UNDERGROUND
	RECESSED FIXTURE		BRANCH CIRCUIT - HOME-RUN TO PANEL
$	SINGLE POLE SWITCH		CROSS LINES SHOW # OF WIRES IF MORE THAN 2
$3	3-WAY SWITCH	(4)	DRAWING NOTE (ON THE SHEET WHERE SHOWN)
$4	4-WAY SWITCH	M	MECHANICAL EQUIPMENT OR DETAIL SYMBOL
$	EXHAUST FAN (TIMER) SWITCH	M	FAN MOTOR CONNECTION POINT
$T	THERMAL OVERLOAD SWITCH W/PILOT LIGHT	$	INDICATES EXISTING EQUIPMENT
J	JUNCTION BOX		DISCONNECT SWITCH (FUSED)
	DUPLEX RECEPTACLE (H=HEIGHT ABV. GFCI=GFCI FLT)		

AS BUILT
25 JULY 1996

REGISTERED PROFESSIONAL ENGINEER CHARLES L. SUDWEEKS STATE OF IDAHO 4/19/95

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PLOT DATE: 04-18-95
ESA JOB NUMBER: 94050

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JOHN R. WATSON AR-11276
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PROJECT:
MENAN I,2
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
FLOOR PLAN ELECTRICAL

PLOT DATE:	04-18-95	JOB NO:	013
PROJECT No.	94050		
PLOT SCALE:	1/8" = 1'-0"	DATE:	APRIL '95
DRAWN BY:	JH	CHECKED BY:	JRW

DRAWING NO.
FILE: 94050E01
E-1
OF 1

24X

GENERAL NOTES

(A) CONTRACTOR & SUBCONTRACTOR SHALL FIELD VERIFY DIMENSIONS, EXISTING CONDITIONS & AREAS AFFECTED BY CONSTRUCTION PRIOR TO SUBMISSION OF BIDS & BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF CONDITIONS OR PROBLEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS.

(B) CONTRACTOR IS RESPONSIBLE FOR REPAIRS DUE TO DAMAGE OF EXISTING WORK AS A RESULT OF NEW WORK. MATCH EXISTING MATERIALS / FINISHES WHERE REPAIRS ARE NECESSARY & AS DIRECTED BY ARCHITECT.

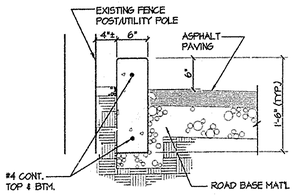
(C) REMOVE RUBBISH / DEBRIS FROM PROPERTY. DISPOSE OF TRASH PROPERLY USING APPROVED DISPOSAL SITES FOR TYPE OF MATERIAL ENCOUNTERED. CONSULT LOCAL AUTHORITIES AS REQUIRED.

(D) VERIFY LOCATION OF EXISTING UTILITIES WITH LOCAL AUTHORITIES. UNDERGROUND UTILITIES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY OWNER OR ITS REPRESENTATIVE. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR DAMAGES OCCASIONED BY FAILURE TO LOCATE AND PRESERVE UTILITY LINES.

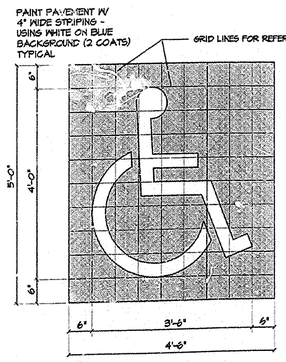
(E) BASE BID TO INCLUDE 1500 LINEAL FEET OF CRACK REPAIR.

PLAN NOTES

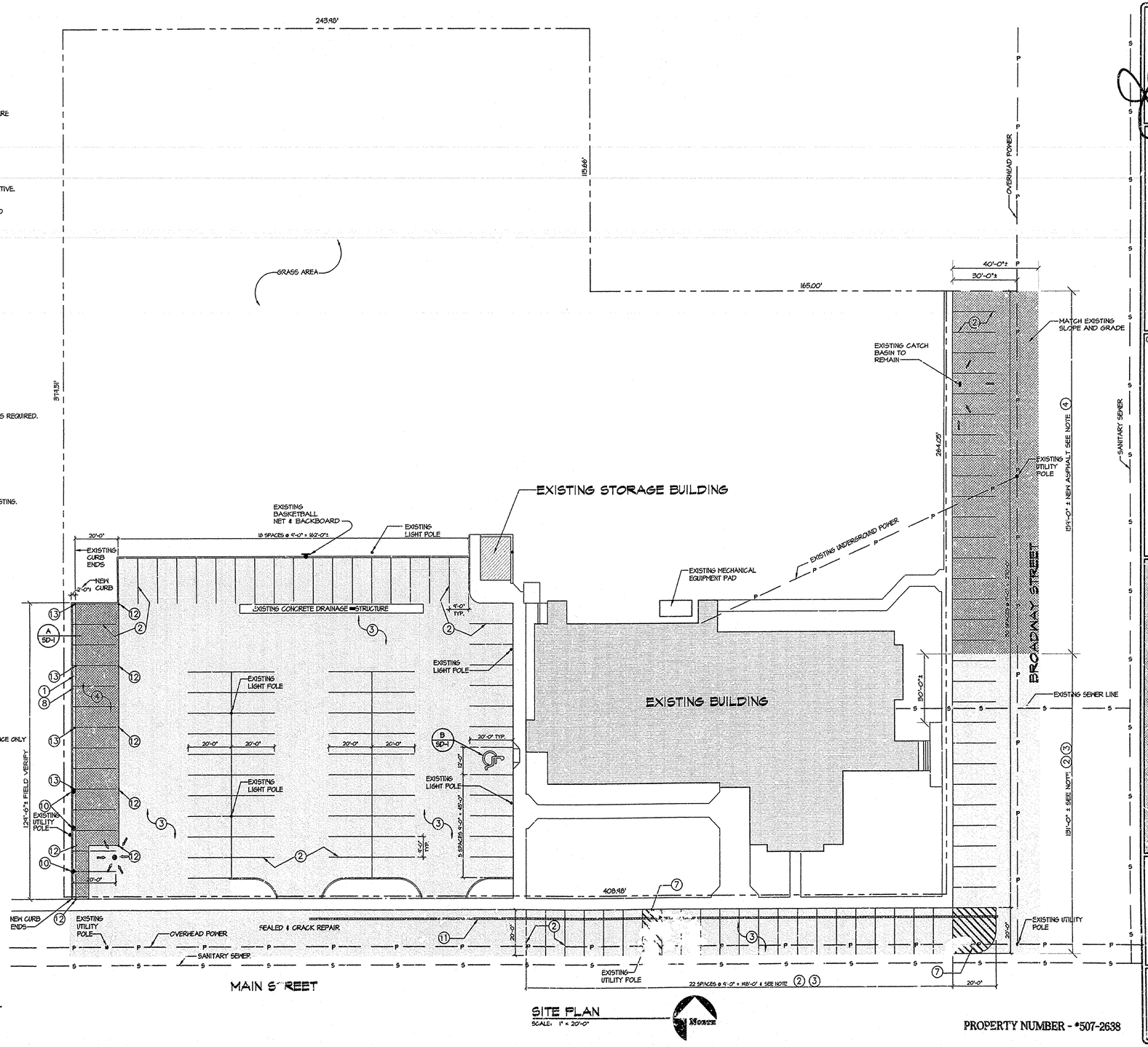
1. EXTEND ASPHALT PAVING
2. PAINT STRIPES TO BE 4" WIDE - TYPICAL.
3. SHADED AREA INDICATES EXTENT OF PARKING AREA TO BE SEALED, CRACK REPAIRED & RE-STRIPED
4. REMOVE EXISTING DAMAGED PAVEMENT AND BASE TO 30" BELOW ASPHALT. INSTALL COMPACTED SUB-BASE & BASE. INSTALL NEW ASPHALT.
5. REMOVE EXISTING CONC.CURB (APPROX. ? LN. FT.)
6. NEW CONCRETE CURB - SEE A/SD1
7. PAINT STRIPES 4" WIDE AND 2'-0" O.C. DIAGONAL LINES.
8. STRIP EXISTING VEGETATION LAYER & TOP SOIL LAYER AS REQUIRED.
9. NOT USED
10. REMOVE EXISTING TREE STUMP
11. REPAIR EXISTING PAVEMENT CUT & FILL IN WITH NEW ASPHALT.
12. MATCH EXISTING ELEVATION.
13. BUILD UP NEW ASPHALT GRADE ELEVATION 5" ABOVE EXISTING.



CURB DETAIL (A / SD1)
SCALE: 1" = 1'0"



*PAVEMENT MARKER
BARRIER FREE SYMBOL (B / SD1)
SCALE: N.T.S.



SITE PLAN
SCALE: 1" = 20'-0"

PROPERTY NUMBER - *507-2638

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PROJECT: MENAN I, 2 MENAN IDAHO STAKE
MENAN, IDAHO
DRAWING TITLE: SITE PLAN

PROJECT No.	4-25-95
FILE CASE	94-2-01-4113
DRAWN BY:	RAMS
JOB NO:	018
DATE:	APRIL '95
CHECKED BY:	JRSW

DRAWING NO. SD-1
OF !

24X

GENERAL NOTES

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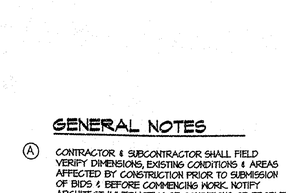
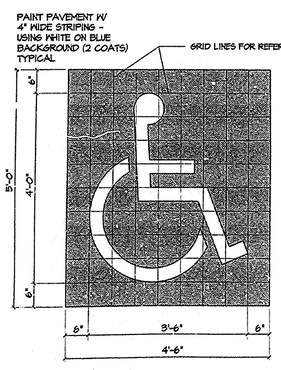
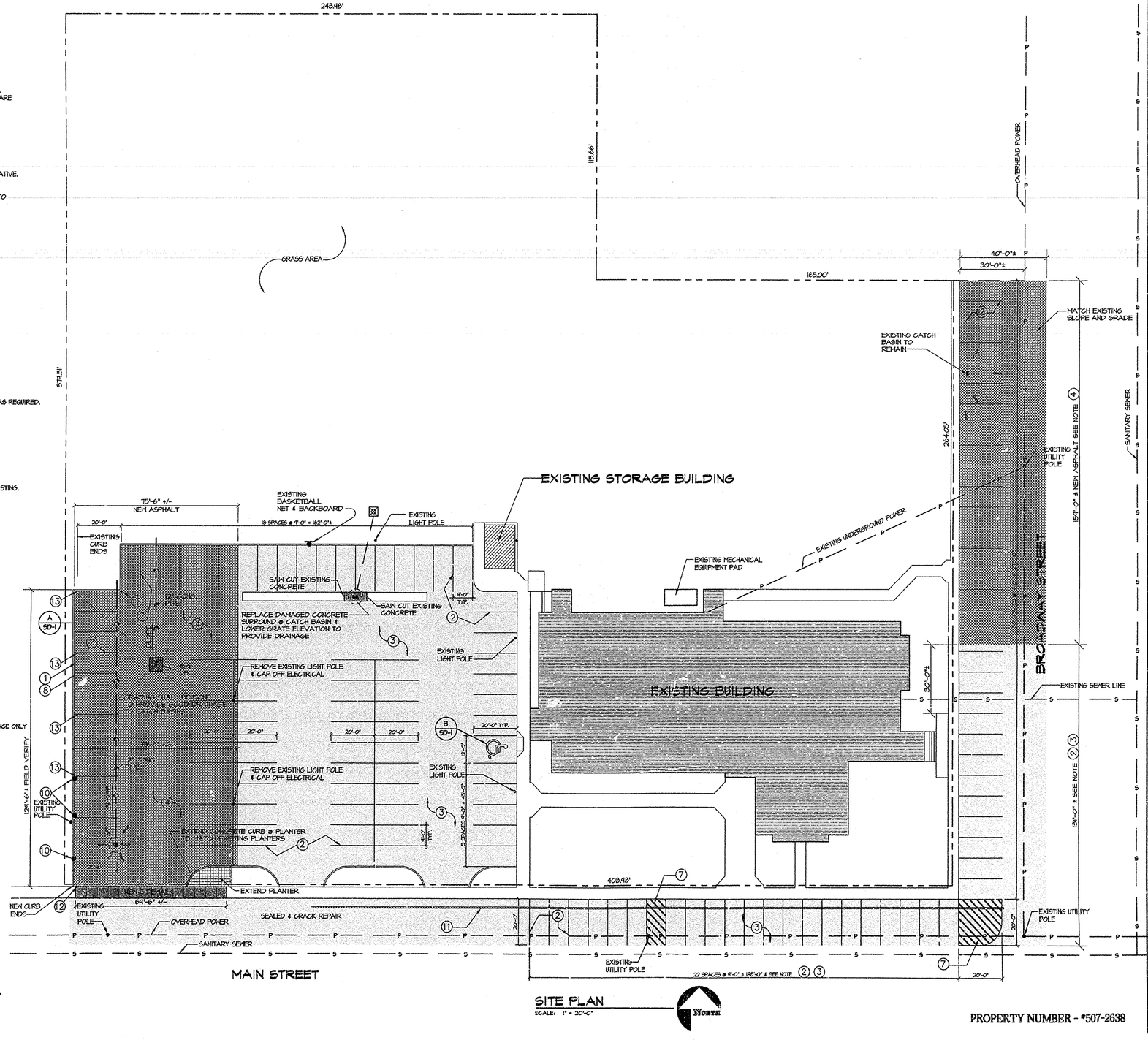
13. BUILD UP NEW ASPHALT GRADE ELEVATION 5" ABOVE EXISTING.



CURB DETAIL (A / SD1)
SCALE: 1" = 1'0"



PAVEMENT MARKER
BARRIER FREE SYMBOL (B / SD1)
SCALE: N.Y.S.



SITE PLAN
SCALE: 1" = 20'-0"

PROPERTY NUMBER - #507-2638

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STATE OF IDAHO

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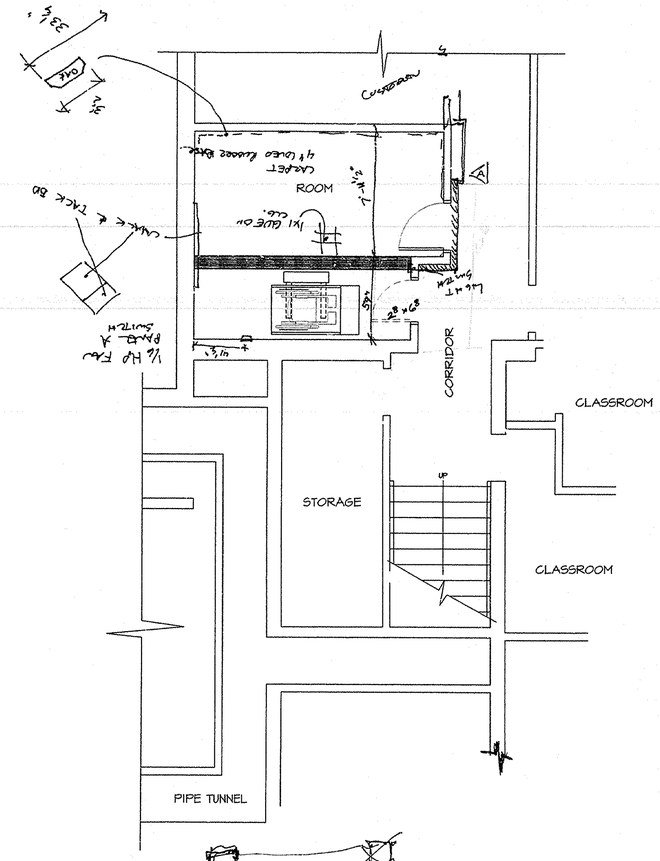
PROJECT: MENAN 1, 2
MENAN IDAHO STAKE
MENAN, IDAHO

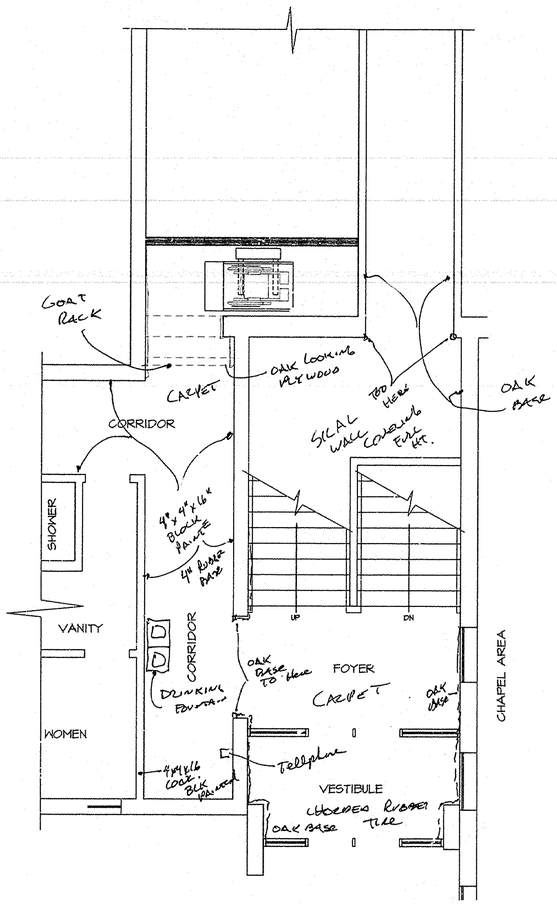
DRAWING TITLE: SITE PLAN

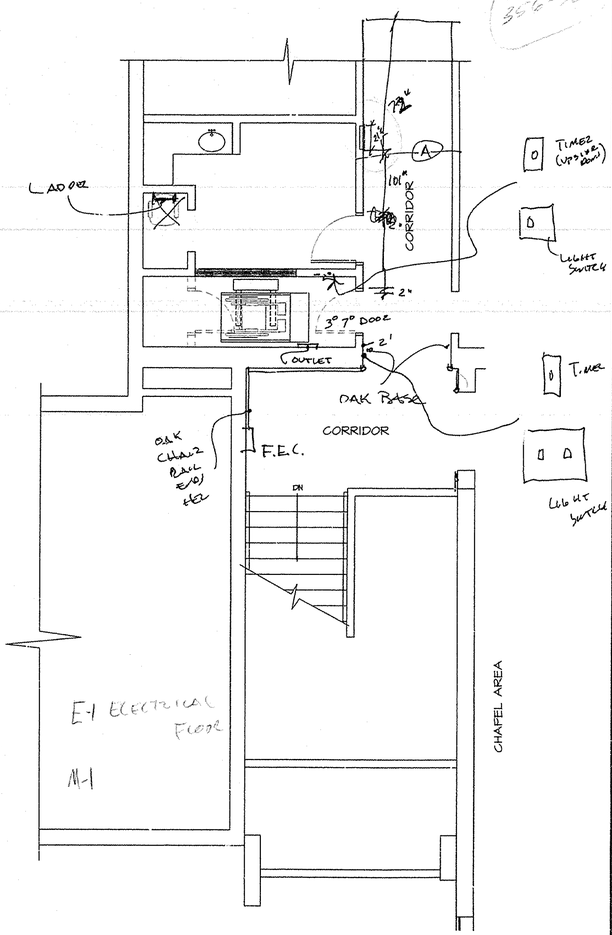
PLOT DATE: 10-31-95	JOB NO: 013	DATE: APRIL '95
PROJECT No. 9413-01-013		
PLOT SCALE: 1=30	DRAWN BY: RMS	CHECKED BY: JRW

DRAWING NO. SD-1
FILE: 013P01
OF 1

E:\W13\013P01 Tue Oct 31 14:00:03 1995 EDT



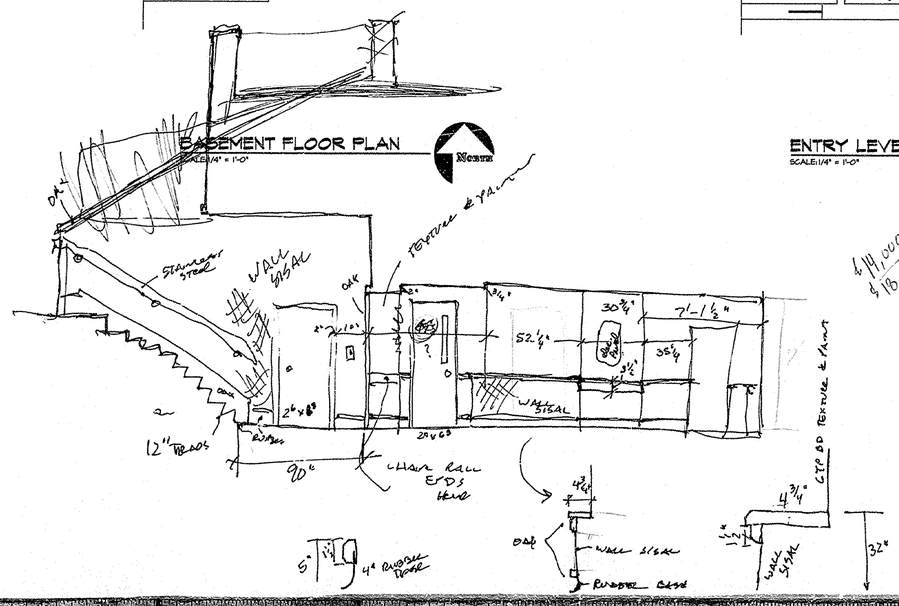


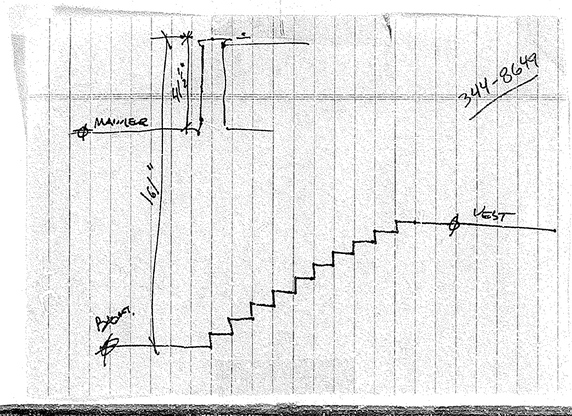


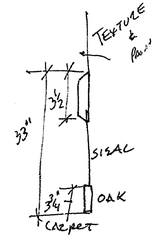
BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"

ENTRY LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"

CHAPEL LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"







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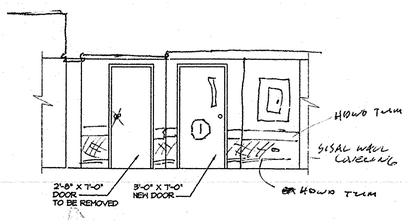
PROJECT: MENAN 1, 2 MENAN IDAHO STAKE — MENAN, IDAHO

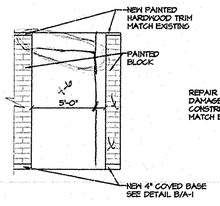
DRAWING TITLE: FLOOR PLAN DETAILS

PLOT DATE: 4-15-95	JOB NO.: 013	DATE: APRIL '95	
PROJECT No.: 94-5-001-013			
PLOT SCALE: 1=1	DRAWN BY: RMG/GOR	CHECKED BY: JRSW	

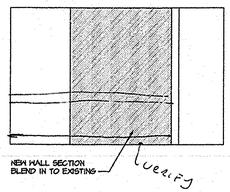
DRAWING NO. FILE: 013F01
A-1
OF .



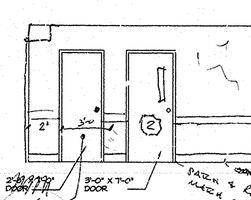
ELEVATION A
SCALE: 1/4" = 1'-0"



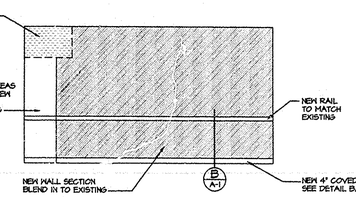
ELEVATION B
SCALE: 1/4" = 1'-0"



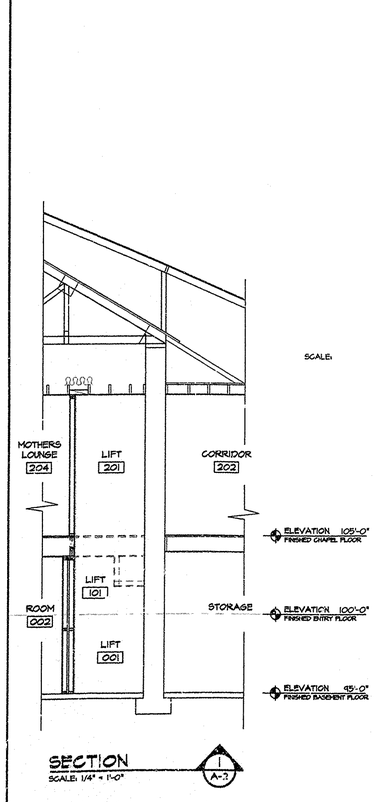
ELEVATION C
SCALE: 1/4" = 1'-0"



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



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



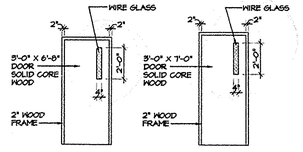
SECTION
SCALE: 1/4" = 1'-0"
1
A-3

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

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

DOOR SCHEDULE

MARK	SGL or DBL	SIZE	TYPE	REMARKS
1	SINGLE	3'-0"X 6'-8"	A	
2	SINGLE	3'-0"X 7'-0"	B	



TYPE A TYPE B

ROOM FINISH SCHEDULE

NO.	NAME	FLOOR: PATCH & REPAIR – MATCH EXISTING AS REQUIRED	FLOOR: CARPET – MATCH EXISTING	BASE: EXISTING BASE TO REMAIN PATCH & REPAIR AS REQUIRED	BASE: 4" RUBBER COVED	WAINSCOT: SEE DETAIL A/A-1	WAINSCOT: SEE DETAIL B/A-1	WAINSCOT: SEE DETAIL C/A-1	WAINSCOT: PATCH & REPAIR AT DOOR CUT OUT MATCH EXISTING	NORTH: PATCH & REPAIR – MATCH EXISTING AS REQUIRED	NORTH: 5/8" TEXTURED & PAINTED GYP. BOARD	EAST: PATCH & REPAIR – MATCH EXISTING AS REQUIRED	EAST: 5/8" TEXTURED & PAINTED GYP. BOARD	SOUTH: PATCH & REPAIR – MATCH EXISTING AS REQUIRED	SOUTH: 5/8" TEXTURED & PAINTED GYP. BOARD	WEST: PATCH & REPAIR – MATCH EXISTING AS REQUIRED	WEST: 5/8" TEXTURED & PAINTED GYP. BOARD	CEILING: PATCH & REPAIR – MATCH EXISTING	CEILING: 101 GLUE ON OVER 5/8" GYP. BOARD	CLG. HT.	REMARKS
001	LIFT	①			●					●		●		●		●			●		① EXISTING 4" CONCRETE SLAB W/CARPET PATCH AND REPAIR MATCH EXISTING.
002	ROOM	①			②		●					●		●		●			●		② NEW BASE AT SOUTH WALL –PATCH AND REPAIR EXISTING BASE FOR REMAINDER OF WALLS. B/A-1
008	CORRIDOR	①			③	●										●			●		③ SEE DETAIL A/A-1
101	LIFT		●		●					●		●		●		●					④ EXISTING BASE TO REMAIN. NEW BASE AT PORTION OF SOUTH WALL – MATCH EXISTING, SEE DETAIL C/A-1
102	CORRIDOR	●		●						●						●		●			
103	CORRIDOR	●		●						●		●		●		●		●			
201	LIFT	●			●							●				●		●			
202	CORRIDOR	●		●				●				●				●		●			
209	NOT USED																				
204	MOTHERS LOUNGE	●			④			●				●		●	●	●		●			

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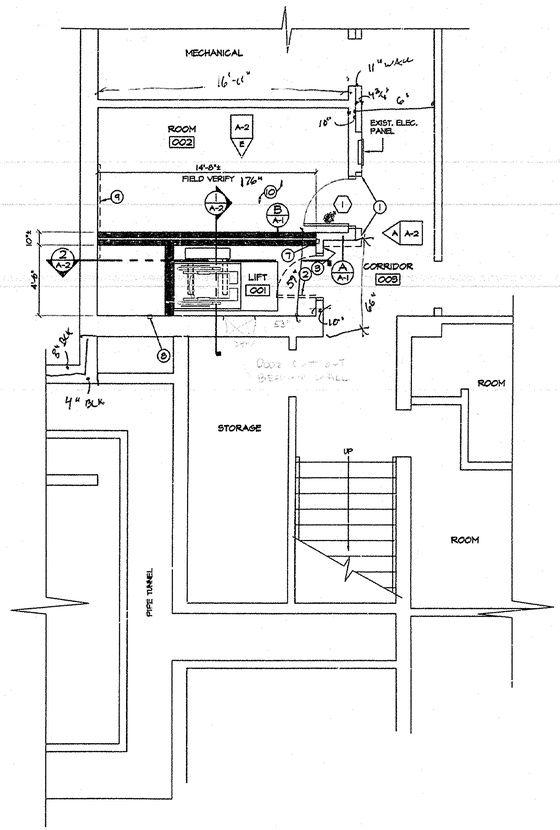
PROJECT: MENAN I, 2 MENAN IDAHO STAKE — MENAN, IDAHO

DRAWING TITLE: INTERIOR ELEVATIONS

PLOT DATE: 1-13-96
PROJECT NO.: 3413-01-013
PLOT SCALE: 1=1

DRAWN BY: ERMS
CHECKED BY: JRW
JOB NO.: 013
DATE: APRIL '95

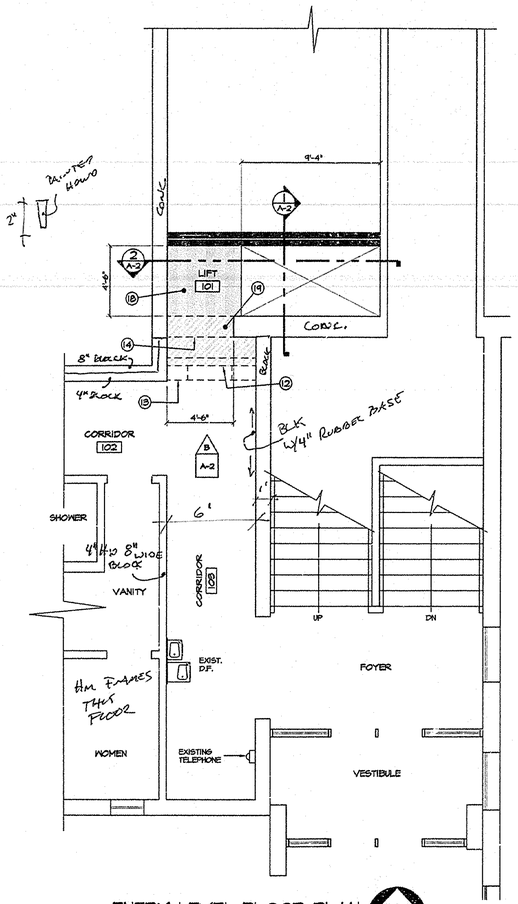
DRAWING NO. A-2
FILE: 013-D-1
OF



BASEMENT FLOOR PLAN

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

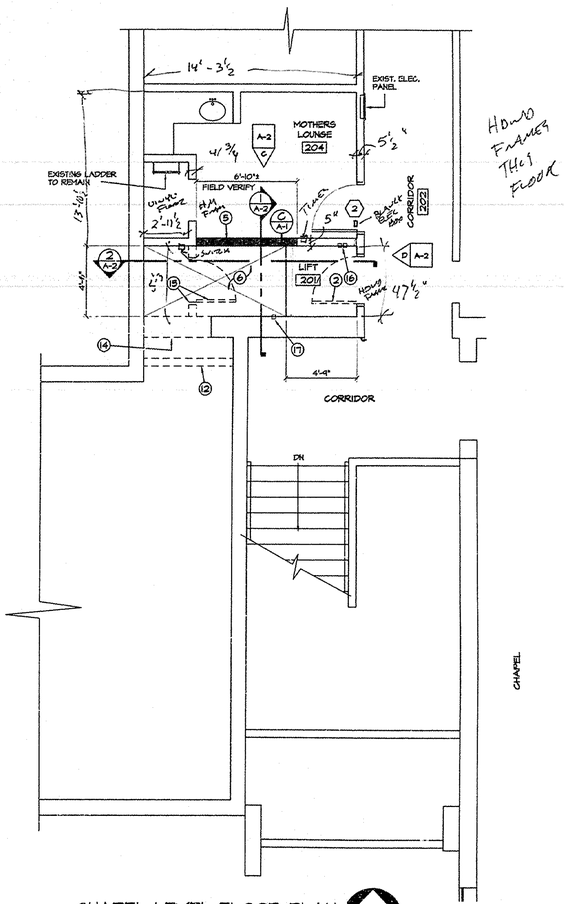
ELEVATION 95'-0" FINISHED BASEMENT FLOOR



ENTRY LEVEL FLOOR PLAN

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

ELEVATION 100'-0" FINISHED ENTRY FLOOR

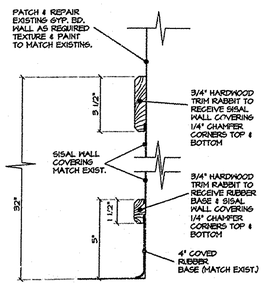


HOOD FRAMES THRU FLOOR

CHAPEL LEVEL FLOOR PLAN

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

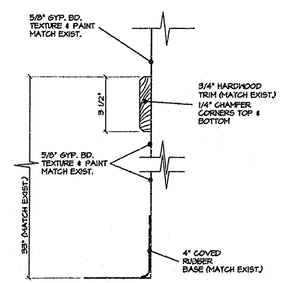
ELEVATION 105'-0" FINISHED CHAPEL FLOOR



NOTE: MATCH ALL EXISTING FINISHES

DETAIL MAINSCOT A A-1

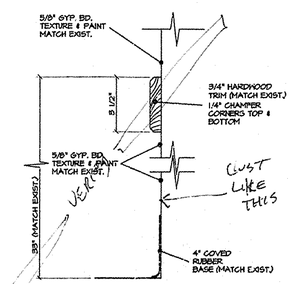
SCALE: 3" = 1'-0"



NOTE: MATCH ALL EXISTING FINISHES

DETAIL MAINSCOT B A-1

SCALE: 3" = 1'-0"



NOTE: MATCH ALL EXISTING FINISHES

DETAIL MAINSCOT C A-1

SCALE: 3" = 1'-0"

NOTES

1. REMOVE EXISTING ' FUR OUT ' WAINSCOT REPLACE AS PER DETAIL A/A-1
2. REMOVE EXISTING WOOD DOOR & HARDWARE RETURN TO OWNER. EXISTING FRAME TO REMAIN
3. PATCH & REPAIR EXISTING WAINSCOT AS REQUIRED MATCH EXIST. SIM. TO DETAIL A/A-1
4. REMOVE EXISTING DOOR & FRAME (RETURN TO OWNER) FILL HOLE W/ 2x4 STUDS W/ 5/8" GYP. BD. TEXTURE & PAINT MATCH EXISTING
5. 2"x4" STUDS AT 16" O/C
6. SAW CUT HOLE IN EXISTING WOOD FLOOR SYSTEM COORDINATE SIZE OF HOLE W/ LIFT MANUFACTURER HEADER AROUND OPENING W/ (2) 2x MEMBERS MATCH DEPTH OF EXISTING WOOD JOISTS
7. RELOCATE EXISTING LIGHT SWITCH SEE ELEC.
8. RELOCATE EXISTING FAN SWITCH SEE MECH.
9. RELOCATE EXISTING CHALK/TACK BOARD LOCATION BY OWNER
10. PATCH & REPAIR ALL EXISTING SURFACES TO MATCH EXISTING

NOTES

12. REMOVE EXISTING WOOD PANEL AND WALL
13. REMOVE EXISTING COAT RACK & RETURN TO OWNER
14. SAW-CUT OPENING IN EXISTING WALL PATCH & REPAIR TO RECEIVE PLASTER FINISH - TEXTURE & PAINT MATCH EXISTING
15. REMOVE EXISTING DOOR, FRAME & HARDWARE AND PORTION OF EXISTING WALL PATCH & REPAIR EXISTING WALLS & CEILING AS REQUIRED MATCH EXISTING FINISHES
16. REMOVE EXISTING LIGHT SWITCH & TIMER SWITCH - SEE ELEC. PATCH & REPAIR HOLE TEXTURE AND PAINT TO MATCH EXIST.
17. NEW FLOOR FRAME W/ 2x10's AT 24" O/C - SEE SECTION 2/A-2 (SHADED AREA)
18. PATCH EXISTING FLOOR TO ACHIEVE LEVEL SURFACE TO ELEVATION 100'-0" - MATCH EXISTING FINISH (CROSS - HATCHED AREA)

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PROJECT: MENAN 1, 2 MENAN IDAHO STAKE — MENAN, IDAHO

DRAWING TITLE: FLOOR PLAN DETAILS

PLOT DATE: 4-11-95
PROJECT NO. 9413-01-013
PLOT SCALE: 1=1

DRAWN BY: RAY/GOR

JOB NO: 013

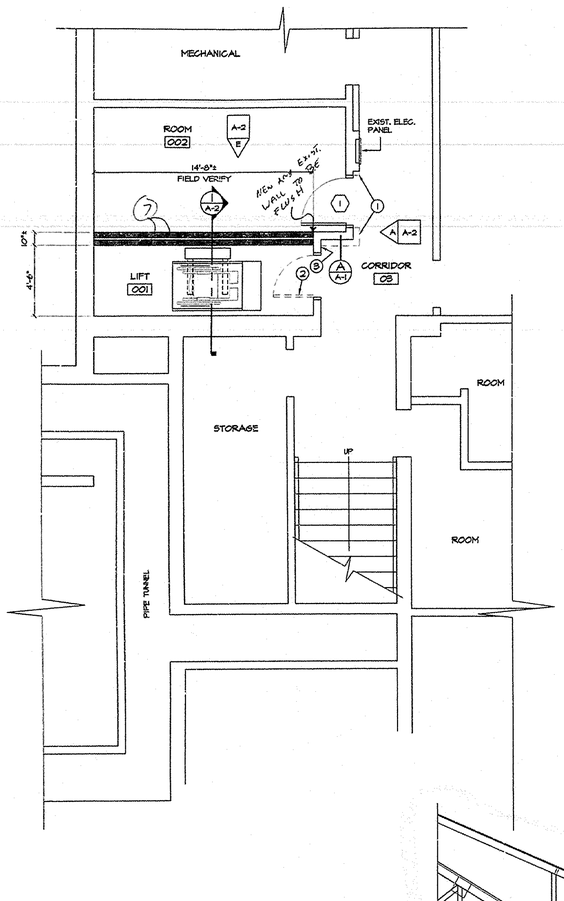
CHECKED BY: JRW

DATE: APRIL '95

DRAWING NO. A-1

OF 3

E-101

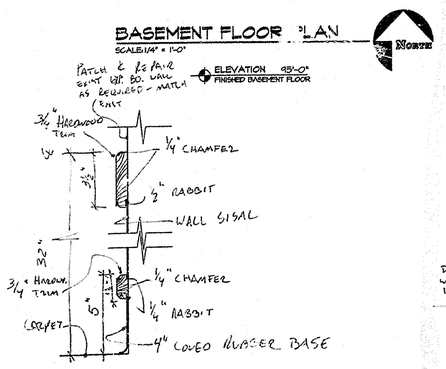


BASEMENT FLOOR PLAN

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

North

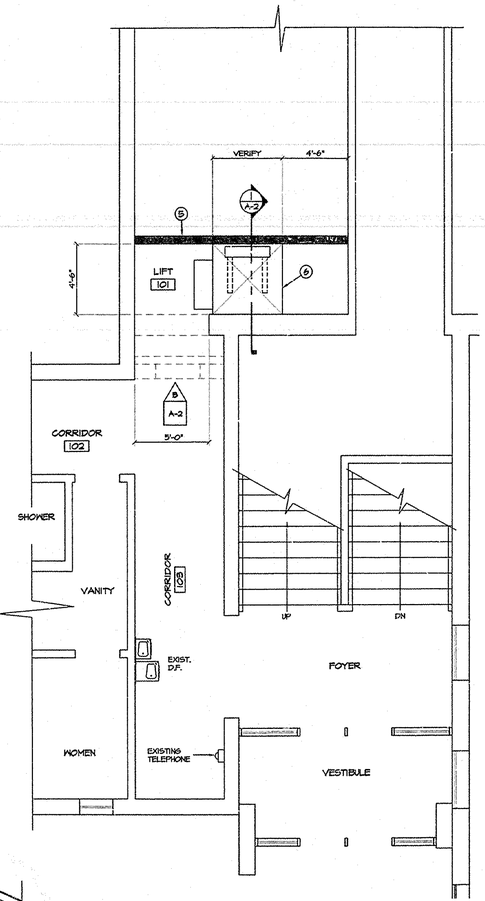
ELEVATION 95'-0" FINISHED BASEMENT FLOOR



DETAIL MAINSCOT

A / A-1

SCALE: 3" = 1'-0"

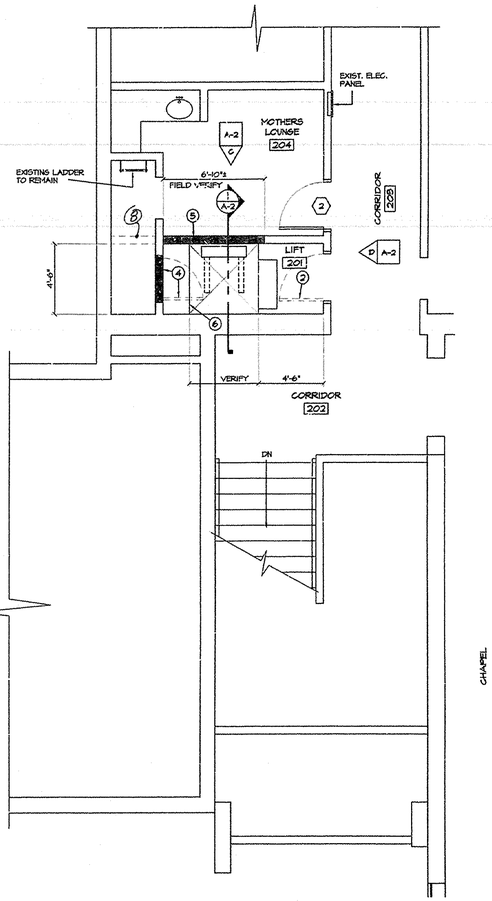


ENTRY LEVEL FLOOR PLAN

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

North

ELEVATION 100'-0" FINISHED ENTRY FLOOR

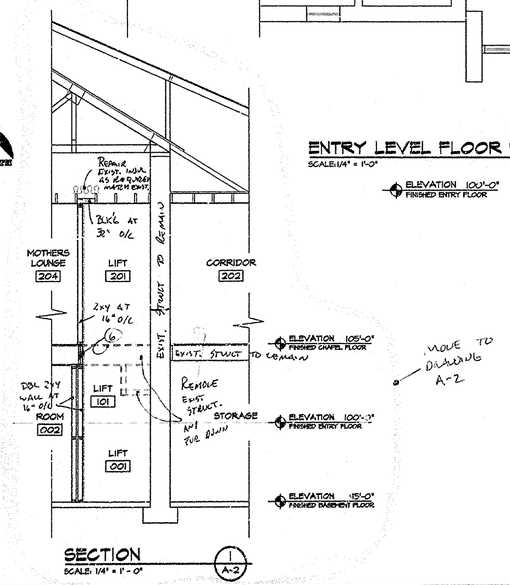


CHAPEL LEVEL FLOOR PLAN

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

North

ELEVATION 105'-0" FINISHED CHAPEL FLOOR



MOVE TO DRAWING A-2

SECTION

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

1 / A-2

(8) REMOVE EXIST. STUD WALL PATCH & REPAIR FLOOR, WALLS & CLG. MATCH EXIST.

(9) SAW CUT & REMOVE PORTION OF EXIST. ~~CMU~~ WALL.

NOTES

1. REMOVE EXISTING 'FUR OUT' WAINSCOT REPLACE AS PER DETAIL A/A-1
2. REMOVE EXISTING WOOD DOOR & HARDWARE RETURN TO OWNER. EXISTING FRAME TO REMAIN
3. PATCH & REPAIR EXISTING WAINSCOT AS REQUIRED MATCH EXIST. SIM. TO DETAIL A/A-1
4. REMOVE EXISTING DOOR & FRAME (RETURN TO OWNER) FILL HOLE W/ 2x4 STUDS W/ 5/8" GYP. ED. TEXTURE & PAINT TO MATCH EXISTING
5. 2 x 4" STUDS AT 16" O/C
6. SAW CUT HOLE IN EXISTING WOOD FLOOR SYSTEM. COORDINATE SIZE OF HOLE W/ LIFT MANUFACTURER. HEADER AROUND OPENING W/ (2) 2x MEMBERS MATCH DEPTH OF EXISTING WOOD JOISTS
7. DOUBLE 2x4 WOOD STUD WALL AT 16" O/C. W/ 5/8" GYP. BD. TEXTURE AND PAINT ON NORTH ~~FACE~~ SIDE & ½" PLYWD. SHEATHING & 5/8" GYP. BD. TEXTURE AND PAINT ON SOUTH SIDE.

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PROJECT: MENAN 1, 2 MENAN IDAHO STAKE — MENAN, IDAHO

DRAWING TITLE: FLOOR PLAN DETAILS

PLOT DATE: 4-1-05
PROJECT NO.: 9413-01-013
PLOT SCALE: 1=48

JOB NO.: 013

DATE: APRIL '05

DRAWN BY: RJW/SVDR

CHECKED BY: JRW

DRAWING NO.: A-1

FILE: 013701

OF 3

GENERAL NOTES

Ⓐ CONTRACTOR & SUBCONTRACTOR SHALL FIELD VERIFY DIMENSIONS, EXISTING CONDITIONS & AREAS AFFECTED BY CONSTRUCTION PRIOR TO SUBMISSION OF BIDS & BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF CONDITIONS OR PROBLEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS.

Ⓑ CONTRACTOR IS RESPONSIBLE FOR REPAIRS DUE TO DAMAGE OF EXISTING WORK AS A RESULT OF NEW WORK. MATCH EXISTING MATERIALS / FINISHES WHERE REPAIRS ARE NECESSARY & AS DIRECTED BY ARCHITECT.

Ⓒ REMOVE RUBBISH / DEBRIS FROM PROPERTY. DISPOSE OF TRASH PROPERLY USING APPROVED DISPOSAL SITES FOR TYPE OF MATERIAL ENCOUNTERED. CONSULT LOCAL AUTHORITIES AS REQUIRED.

Ⓓ VERIFY LOCATION OF EXISTING UTILITIES WITH LOCAL AUTHORITIES. UNDERGROUND UTILITIES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY OWNER OR ITS REPRESENTATIVE. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR DAMAGES OCCASIONED BY FAILURE TO LOCATE AND PRESERVE UTILITY LINES.

Ⓔ BASE BID TO INCLUDE 1500 LINEAL FEET OF CRACK REPAIR.

PLAN NOTES

① EXTEND ASPHALT PAVING

② PAINT STRIPES TO BE 4" WIDE - TYPICAL.

③ SHADED AREA INDICATES EXTENT OF PARKING AREA TO BE SEALED, CRACK REPAIRED & RE-STRIPED

④ REMOVE EXISTING DAMAGED PAVEMENT AND BASE TO 30" BELOW ASPHALT. INSTALL COMPACTED SUB-BASE & BASE. INSTALL NEW ASPHALT.

⑤ REMOVE EXISTING CONC.CURB (APPROX. ? LN. FT.)

⑥ NEW CONCRETE CURB - SEE A/SD1

⑦ PAINT STRIPES 4" WIDE AND 2'-0" O.C. DIAGONAL LINES.

⑧ STRIP EXISTING VEGETATION LAYER & TOP SOIL LAYER AS REQUIRED.

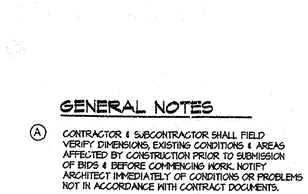
⑨ NOT USED

⑩ REMOVE EXISTING TREE STUMP

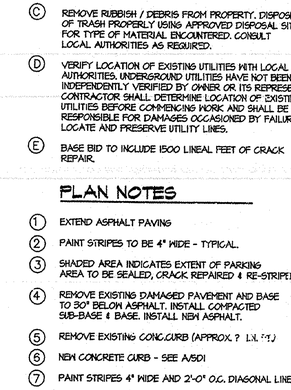
⑪ REPAIR EXISTING PAVEMENT CUT & FILL IN WITH NEW ASPHALT.

⑫ MATCH EXISTING ELEVATION.

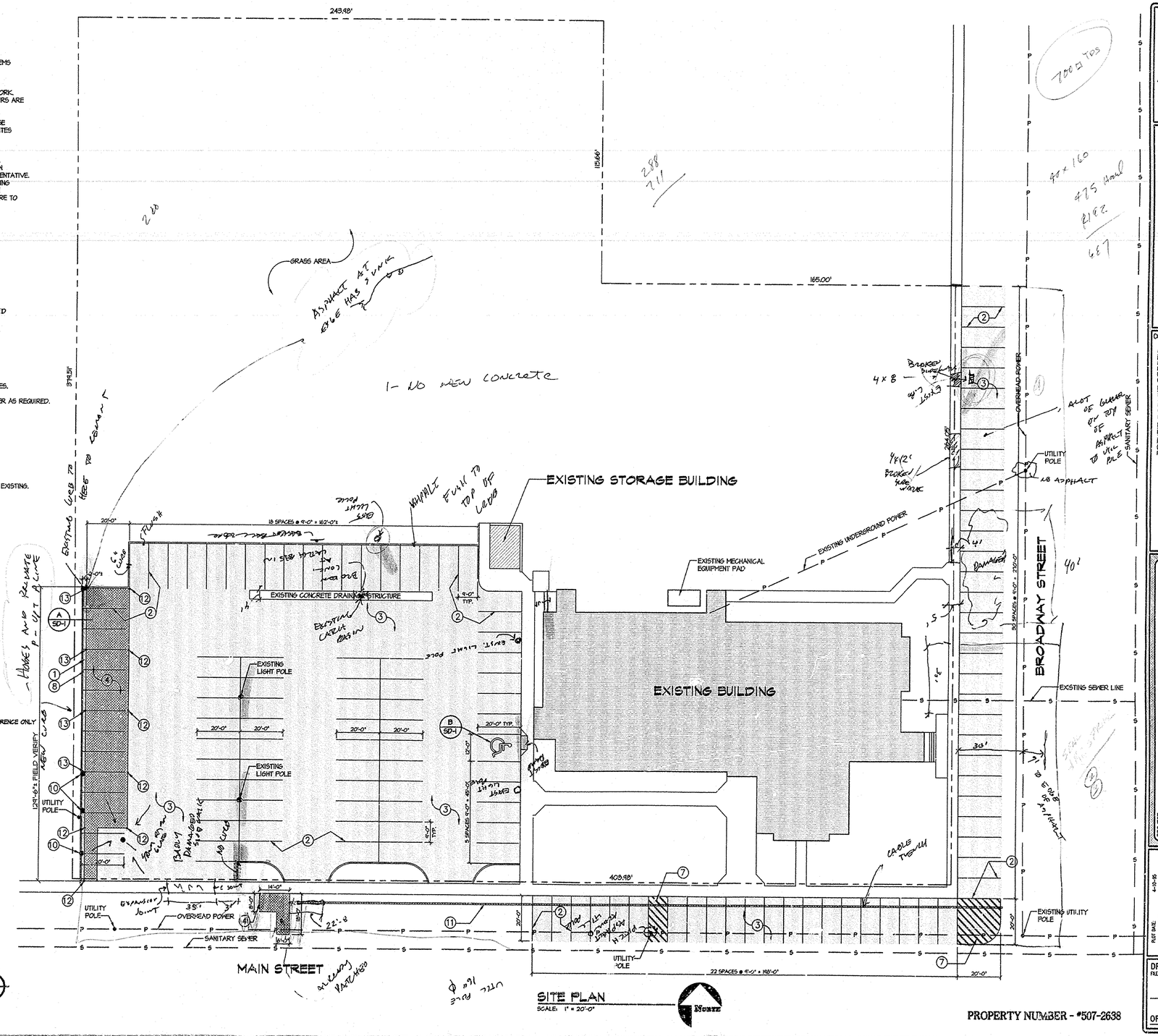
⑬ BUILD UP NEW ASPHALT GRADE ELEVATION 5" ABOVE EXISTING.



CURB DETAIL (A/SD1)
SCALE: 1" = 1'0"



BARRIER FREE SYMBOL (B/SD1)
SCALE: N.T.S.



SITE PLAN
SCALE: 1" = 20'-0"

PROPERTY NUMBER - #507-2638

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PROJECT:
MENAN 1, 2
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
SITE PLAN

PLOT DATE: 4-10-95
PROJECT No. 9413-01-013
PLOT SCALE: 1=240
DRAWN BY: RWG
JOB NO: 013
CHECKED BY: JRW
DATE: APRIL '95

DRAWING NO.
FILE: 013SP01
SD-1
OF 1

24X

IMPROVEMENTS

FOR

MENAN

1ST. & 2ND WARDS

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

MENAN, IDAHO

REVIEWED AND APPROVED

THIS IS TO CERTIFY THAT THE STAKE/MISSION PRESIDENT HAS REVIEWED THESE DRAWINGS AND SPECIFICTIONS AND FINDS THEM ACCEPTABLE AND IS IN CONCURRENCE

STAKE/MISSION PRESIDENT DATE

JRW & ASSOCIATES

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REXBURG, IDAHO 83440

DRAWING INDEX

	ARCHITECTURAL
C-1	COVER SHEET
SD-1	SITE DETAIL
A-1	FLOOR PLAN
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PROPERTY # 507-2638

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Qualifications Certified By:
N.C.A.R.B.
NATIONAL COUNCIL OF ARCHITECTURAL REGISTRATION BOARDS

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CONSULTANTS:

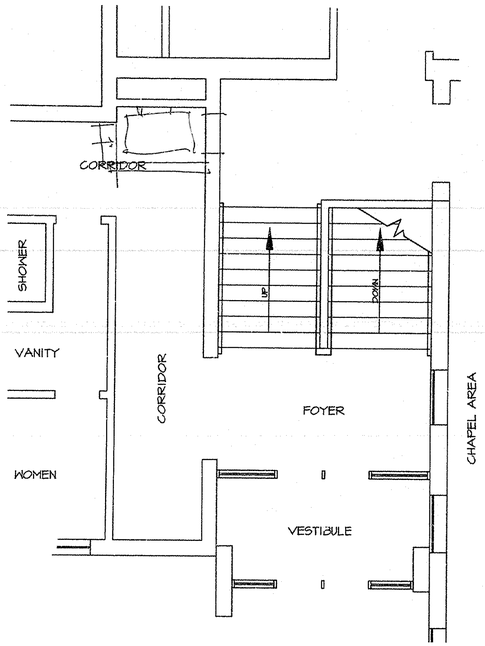
PROJECT:
IMPROVEMENTS FOR MENAN
1ST. & 2ND.WARDS
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
COVER SHEET AND INDEX TO DRAWINGS

PLOT DATE: 3/1/94
PROJECT No. .
PLOT SCALE: 1=96

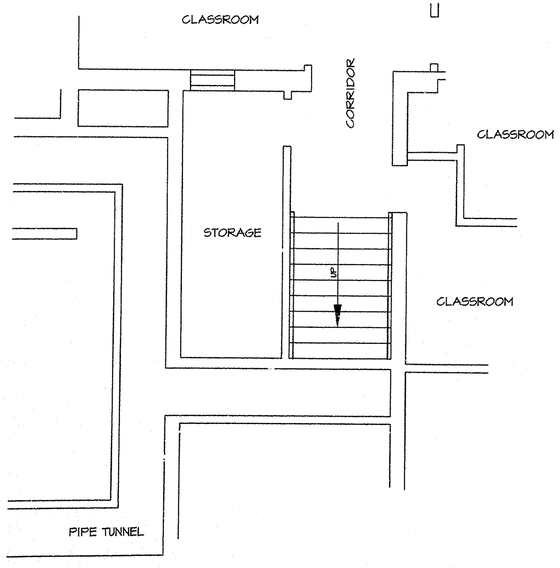
DRAWN BY: RMG
JOB NO: .
CHECKED BY: JRW
SHEET NO. FILE COVER C-1
DATE: .
OF .

24X



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

NORTH



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

NORTH

JRW & ASSOCIATES

JOHN R. WATSON
JOHNNY R. WATSON
JENNICA R. WATSON
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NATIONAL COUNCIL OF ARCHITECTURAL REGISTRATION BOARDS

JRW & ASSOCIATES
JOHN R. WATSON AR-1276
STATE OF IDAHO

CONSULTANTS:

PROJECT:
IMPROVEMENTS FOR MENAN
1ST & 2ND WARDS
MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
FLOOR PLAN DETAILS

PLOT DATE: XX/XX/XX
PROJECT No. X
PLOT SCALE: 1=48

DRAWN BY: RJWS
JOB NO:
CHECKED BY: JRW
SHEET NO.
FILE:
DATE:
OF

24X

GENERAL NOTES

(A) CONTRACTOR & SUBCONTRACTOR SHALL FIELD VERIFY DIMENSIONS, EXISTING CONDITIONS & AREAS AFFECTED BY CONSTRUCTION PRIOR TO SUBMISSION OF BIDS & BEFORE COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY OF CONDITIONS OR PROBLEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS.

(B) CONTRACTOR IS RESPONSIBLE FOR REPAIRS DUE TO DAMAGE OF EXISTING WORK AS A RESULT OF NEW WORK. MATCH EXISTING MATERIALS / FINISHES WHERE REPAIRS ARE NECESSARY & AS DIRECTED BY ARCHITECT.

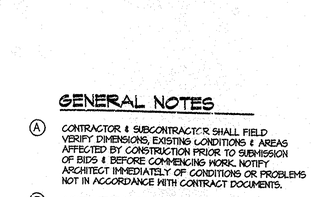
(C) REMOVE RUBBISH / DEBRIS FROM PROPERTY. DISPOSE OF TRASH PROPERLY USING APPROVED DISPOSAL SITES FOR TYPE OF MATERIAL ENCOUNTERED. CONSULT LOCAL AUTHORITIES AS REQUIRED.

(D) VERIFY LOCATION OF EXISTING UTILITIES WITH LOCAL AUTHORITIES. UNDERGROUND UTILITIES HAVE NOT BEEN INDEPENDENTLY VERIFIED BY OWNER OR ITS REPRESENTATIVE. CONTRACTOR SHALL DETERMINE LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK AND SHALL BE RESPONSIBLE FOR DAMAGES OCCASIONED BY FAILURE TO LOCATE AND PRESERVE UTILITY LINES.

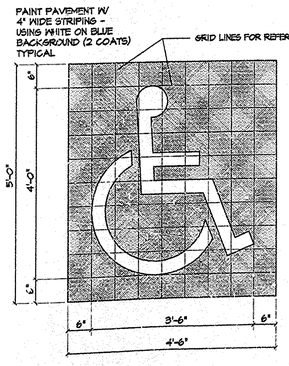
(E) BASE BID TO INCLUDE 1500 LINEAL FEET OF CRACK REPAIR.

PLAN NOTES

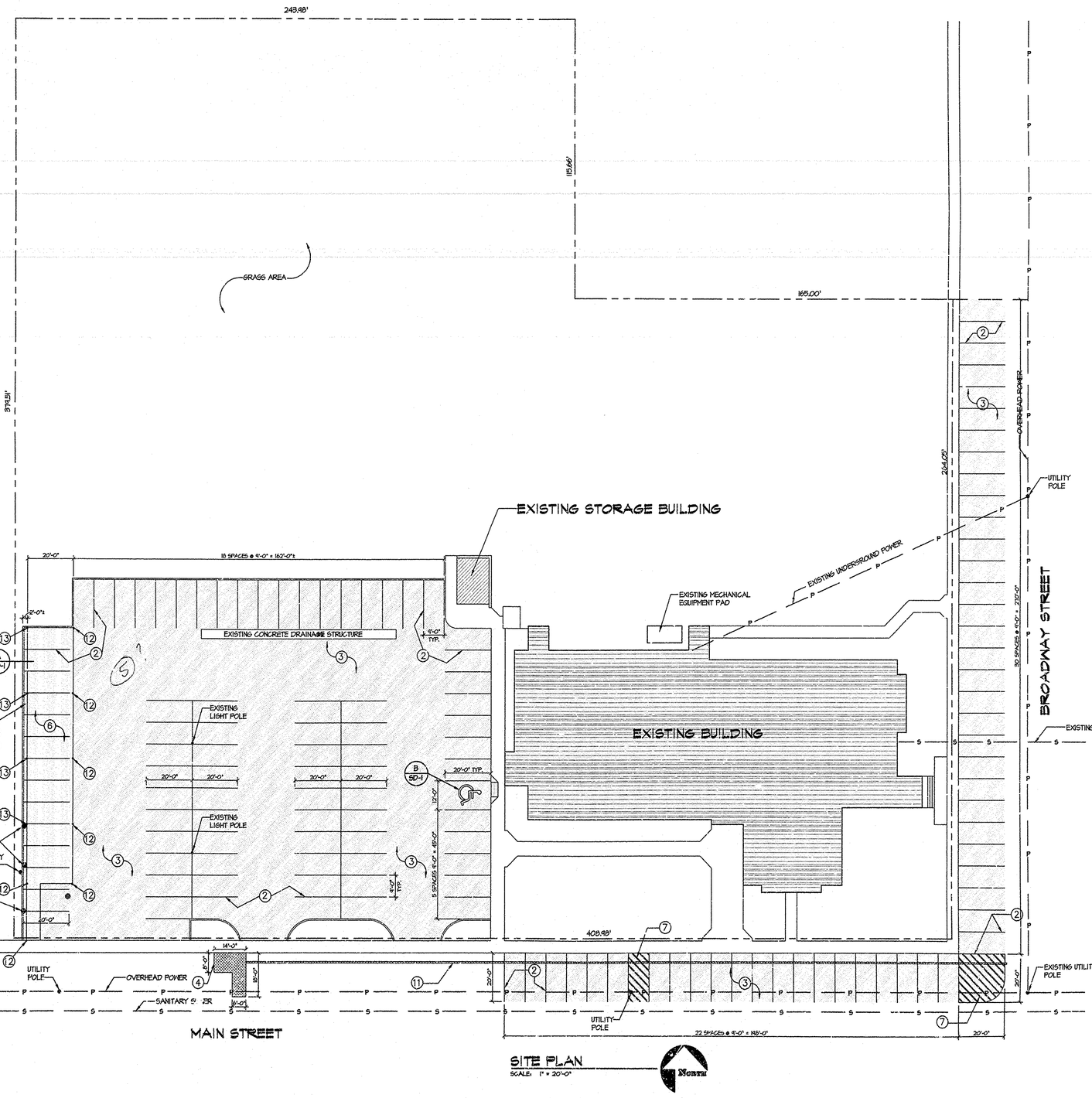
1. EXTEND ASPHALT PAVING
2. PAINT STRIPES TO BE 4" WIDE - TYPICAL.
3. SHADED AREA INDICATES EXTENT OF PARKING AREA TO BE SEALED, CRACK REPAIRED & RE-STRIPED
4. REMOVE EXISTING DAMAGED PAVEMENT AND BASE TO 30" BELOW ASPHALT. INSTALL COMPACTED SUB-BASE & BASE. INSTALL NEW ASPHALT.
5. REMOVE EXISTING CONC.CURB AND PREPARE AREA FOR NEW WORK.
6. REMOVE EXISTING PAVING & PREPARE AREA FOR NEW WORK.
7. PAINT STRIPES 4" WIDE AND 2'-0" O.C. DIAGONAL LINES.
8. STRIP EXISTING VEGETATION LAYER & TOP SOIL LAYER AS REQUIRED.
9. INSTALL ENGINEERED FILL SUB-BASE, ROAD BASE AND ASPHALT PAVING.
10. REMOVE EXISTING TREE STUMP
11. REPAIR EXISTING PAVEMENT CUT & FILL IN WITH NEW ASPHALT.
12. MATCH EXISTING ELEVATION.
13. BUILD UP NEW GRADE ELEVATION 5" ABOVE EXISTING.



CURB DETAIL (A / SD1)
SCALE: 1" = 1'0"



PAVEMENT MARKER
BARRIER FREE SYMBOL (B / SD1)
SCALE: N.T.S.



SITE PLAN
SCALE: 1" = 20'-0"

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CONSULTANTS:

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IMPROVEMENTS FOR MENAN 1ST. & 2ND WARDS MENAN IDAHO STAKE
MENAN, IDAHO

DRAWING TITLE:
SITE PLAN

PLOT DATE: XX/XX/XX
PROJECT No. X
PLOT SCALE: 1=240

DRAWN BY: RWG
JOB NO:
CHECKED BY: JRW
SHEET NO. SD-1
DATE:
OF

24X

GENERAL STRUCTURAL NOTES

GENERAL REQUIREMENTS

DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

MISCELLANEOUS ITEMS

CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

CONSTRUCTION MEANS AND METHODS

THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM-WORK, ETC... AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY (INCLUDING UTILITIES) DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS AS STATED HEREIN ARE NOT EXCEEDED.

DIMENSIONS, INSERTS AND OPENINGS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

STANDARDS

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE EDITION REFERENCED IN THE GOVERNING BUILDING CODE.

TYPICAL DETAILS AND NOTES

TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

SHOP DRAWINGS

SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. FIVE WORKING DAYS SHALL BE ALLOWED FOR THE ENGINEER'S REVIEW. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR ENGINEERING SYSTEM SOLUTIONS RECORDS.

MOLD

MOLD CONCERNS AND PREVENTION IS OUT OF ENGINEERING SYSTEM SOLUTIONS SCOPE OF SERVICES. ENGINEERING SYSTEM SOLUTIONS SHALL BE HELD HARMLESS, TO THE EXTENT OF THE LAW, FOR ALL MOLD PREVENTION AND MOLD RELATED CONCERNS.

BASIS FOR DESIGN

GOVERNING BUILDING CODE: . . . . . 2012 IBC

GRAVITY DESIGN

ROOF

DEAD . . . . . 16 PSF

ROOF SNOW LOAD. . . . . 33 PSF

Is (SNOW LOAD IMPORTANCE FACTOR) 1.1

EXISTING CONDITIONS

DESIGN DOCUMENTS ARE BASED OFF OF INTERPRETED EXISTING CONDITIONS, FIELD OBSERVATIONS, AND/OR DOCUMENTS PROVIDED TO OUR OFFICE TO COMMUNICATE THE EXISTING CONDITIONS. IN THE EVENT THAT CONDITIONS DO NOT MATCH THOSE INDICATED ON THE STRUCTURAL DRAWINGS, ALL STRUCTURAL DESIGN SERVICES REQUIRED TO ENSURE THAT THE EXISTING ELEMENTS MATCH THE STRUCTURAL DOCUMENTS AND TO BRING THEM IN CONFORMANCE WITH THE CURRENT BUILDING CODE SHALL BE HANDLED AS AN ADDITIONAL SERVICE.

STRUCTURAL OBSERVATIONS

STRUCTURAL OBSERVATIONS PERFORMED BY THE ENGINEER OF RECORD DO NOT CONSTITUTE INSPECTIONS AS DETERMINED BY THE BUILDING OFFICAL.

STRUCTURAL OBSERVATIONS TO BE PERFORMED BY STRUCTURAL ENGINEER AT 90% COMPLETION OF PROJECT.

CONTRACTOR RESPONSIBILITY

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD (3) WORKING DAYS PRIOR TO THE SPECIFIED STRUCTURAL OBSERVATION.

WOOD

GENERAL

SAWN FRAMING LUMBER SHALL COMPLY W/ THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR THE WEST COAST LUMBER INSPECTION BUREAU. ALL SAWN LUMBER SHALL BE STAMPED W/ THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. ALL LUMBER SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 0.50 UNLESS NOTED OTHERWISE. MOISTURE CONTENT AT TIME OF AND THROUGHOUT CONSTRUCTION SHALL NOT EXCEED 19%.

ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED, UNO.

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD-BEARING STUDS W/O PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

FABRICATION AND HANDLING SHALL CONFORM W/ THE LATEST AITC AND ASTM STANDARDS.

ALL ENGINEERED WOOD PRODUCTS SHALL BE MANUFACTURED IN ACCORDANCE W/ ESR-1387 OR APPROVED EQUAL.

SAWN LUMBER

SAWN LUMBER SHALL BE DOUGLAS FIR LARCH, NO. 2 GRADE (UNO).

LAMINATED VENEER LUMBER (LVL)

LVL SHALL HAVE THE FOLLOWING MIN PROPERTIES:

Fb =2,600 PSI Fv = 285 PSI Fc (PERPENDICULAR) = 750 PSI
Fc (PARALLEL) = 2310 PSI E = 1,900,000 PSI

PARALLEL STRAND LUMBER (PSL)

PSL SHALL HAVE THE FOLLOWING MIN PROPERTIES:

Fb =2,900 PSI Fv = 290 PSI Fc (PERPENDICULAR) = 750 PSI
Fc (PARALLEL) = 2900 PSI E = 2,000,000 PSI

LAMINATED STRAND LUMBER (LSL)

LSL SHALL HAVE THE FOLLOWING MIN PROPERTIES:

Fb =1,700 PSI Fv = 400 PSI Fc (PERPENDICULAR) = 680 PSI
Fc (PARALLEL) = 1400 PSI E = 1,300,000 PSI

STRUCTURAL USE PANELS

STRUCTURAL-USE PANELS SHALL BE PERFORMANCE RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA). PANELS SHALL COMPLY WITH ICC REPORT NO. NER-108, EXPOSURE 1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PLYWOOD SHALL BE FIVE-PLY SHEATHING LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. PLYWOOD MAY BE ORIENTED PER SHEAR WALL SCHEDULE. ORIENTED STRAND BOARD (OSB) MAY BE USED AS AN ALTERNATE TO PLYWOOD. PROVIDE BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. PANELS SHALL CONFORM TO THE FOLLOWING NOMINAL THICKNESS, SPAN RATING AND NAILING PATTERN UNLESS NOTED OTHERWISE:

THICKNESS	GRADE/ MATERIALS	USE	SPAN RATING	BOUNDARY/ EDGE NAILING	FIELD NAILING
7/16"	RTD SHTG	WALLS/ROOF	24/16	8d AT 6" O.C.	8d AT 12" O.C.
15/32"	RTD SHTG	WALLS/ROOF	32/16	8d AT 6" O.C.	8d AT 12" O.C.
1/2"	RTD SHTG	WALLS/ROOF	32/16	8d AT 6" O.C.	8d AT 12" O.C.
19/32"	RTD SHTG	ROOF	40/20	10d AT 6" O.C.	10d AT 12" O.C.
5/8"	RTD SHTG	ROOF	40/20	10d AT 6" O.C.	10d AT 12" O.C.
3/4"	RTD SHTG	ROOF	48/24	10d AT 6" O.C.	10d AT 12" O.C.
3/4" T&G	RTD SHTG	FLOOR	48/24	10d AT 6" O.C.	10d AT 12" O.C.
7/8" T&G	RTD SHTG	FLOOR	60/32	10d AT 6" O.C.	10d AT 12" O.C.
1 1/8" T&G	RTD SHTG	FLOOR	60/32	10d AT 6" O.C.	10d AT 12" O.C.

PANEL EDGE SUPPORT

PROVIDE ONE PANEL CLIP BETWEEN SUPPORTS SPACED GREATER THAN 16" O.C. AND TWO PANEL CLIPS BETWEEN SUPPORTS SPACED GREATER THAN 32" O.C. AS AN ALTERNATIVE, T&G MAY BE USED OR UNSUPPORTED PANEL EDGES MAY BE BLOCKED W/ 2x FLAT BLKG.

PREFABRICATED PLYWOOD WEB I-JOIST

PREFABRICATED PLYWOOD WEB I-JOIST/PURLINS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE W/ THE LATEST EDITION OF ESR-1153 OR APPROVED EQUAL.

CONNECTIONS AND BEARING MATERIAL SHALL BE DESIGNED AND FURNISHED BY JOIST MANUFACTURER.

ADDITIONAL MEMBERS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

WHERE BRIDGING INTERFERES W/ MECH OR OTHER INSTALLATIONS, REMOVE BRIDGING AFTER DECK IS IN PLACE AND REPLACE W/ ADDITIONAL MFR SUPPLIED HORIZ STRUT BRACING AT TOP AND BOTTOM CHORDS.

PROVIDE 2" (NOMINAL) SOLID BLOCKING BETWEEN JOISTS AT SUPPORTS. JOIST HANGERS AND OTHER MISCELLANEOUS FRAMING ANCHORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE CO., INC., OR EQUIVALENT W/ CURRENT ICC APPROVAL.

NAILS

ALL NAILS, EXCEPT 16d, SHALL BE COMMON WIRE NAILS UNO. 16d NAILS MAY BE SINKERS OR BOX UNO ON PLANS OR SCHEDULES. NAILS SHALL BE DRIVEN SO THAT HEADS ARE FLUSH W/ WOOD SURFACE. OVER OR UNDER DRIVEN NAILS ARE NOT ACCEPTABLE.

NAIL SIZE	SHANK DIA	LENGTH
16d	0.135" MIN	3 1/4" (MIN)
10d	0.148"	3"
8d	0.131"	2 1/2"

BOLTS AND LAG SCREWS

ALL BOLTS SHALL BE INSTALLED IN HOLES BORED W/ A BIT 1/16 INCH LARGER THAN THE DIAMETER OF THE BOLT.

CUT WASHERS SHALL BE PLACED UNDER BOLT HEADS AND NUTS. SPOIL THREADS TO PREVENT LOOSENING.

LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES 40% TO 70% OF THE DIA OF THE LAG SCREW AND INSTALLED BY TURNING W/ A WRENCH.

ANCHORS

FRAMING ANCHORS, HANGERS AND OTHER MISC HARDWARE SPECIFIED ON PLANS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE CO., INC., OR EQUIVALENT W/ CURRENT ICC APPROVAL.

WHERE METAL CONNECTORS, ANCHORS, FASTENERS, ETC., ARE INSTALLED IN OR EXPOSED TO POTENTIALLY CORROSIVE ENVIRONMENTS OR MATERIALS. (I.E. PRESSURE TREATED WOOD, FIRE RETARDANTS, DISSIMILAR METALS, ETC.), APPROPRIATE MEASURES SHALL BE TAKEN (I.E. USE OF CORROSIVE RESISTANT METAL, PROPER APPLICATION OF ADEQUATE PROTECTIVE COATING, ETC.) IN ORDER TO PROTECT THE HARDWARE AGAINST DAMAGE THAT MAY ADVERSELY AFFECT ITS LOAD CARRYING CAPACITY. REFER TO MFR FOR SPECIFIC APPLICATION, LIMITATIONS, OR ADDITIONAL REQUIREMENTS.

STANDARD ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT	ALTERNATE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH	ARCHITECTURAL
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BLDG	BUILDING
BLKG	BLOCKING
BN	BOUNDARY NAILING OR FASTENERS
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
CBC	CALIFORNIA BUILDING CODE
℄	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CRSI	CONCRETE REINFORCING STEEL INSTITUTE
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DEMO	DEMOLITION
DIA OR ø	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEV	ELEVATION
EN	EDGE NAILING
ESR	EVALUATION SERVICES REPORT
EQ	EQUAL
EQUIP	EQUIPMENT
FF	FINISH FLOOR
FDN	FOUNDATION
FT	FOOT
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GSN	GENERAL STRUCTURAL NOTES
GT	GIRDER TRUSS
HI	HIGH
HORIZ	HORIZONTAL
HSS	HOLLOW STRUCTURAL SHAPE
HT	HEIGHT
IBC	INTERNATIONAL BUILDING CODE
INFO	INFORMATION
ICC	INTERNATIONAL CODE COUNCIL
K	KIP (1,000 LBS.)
KLF	KIPS PER LINEAR FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LL	DOUBLE ANGLE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LO	LOW
LONG	LONGITUDINAL
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
LT	LIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MFD	MANUFACTURED
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NTS	NOT TO SCALE
O.C.	ON CENTER
OPP	OPPOSITE HAND
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATION
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF	REINFORCING
REQ'D	REQUIRED
RME	ROOF MOUNTED EQUIPMENT
SCHED	SCHEDULE
SHTG	SHEATHING
SIM	SIMILAR
SPEC	SPECIFICATION
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD	STANDARD
STL	STEEL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROVE
T O	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

SHEET INDEX

SHEET NO.	SHEET TITLE	REVISION	
S0.1	GENERAL STRUCTURAL NOTES		
S1.1	ROOF FRAMING PLAN		
S2.1	TRUSS DETAILS AND TRUSS PROFILE		
S2.2	TRUSS PROFILES		

RECORD DRAWING

DATE: FEB 20, 2015

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

ENGINEERING SYSTEM SOLUTIONS
4943 NORTH 29TH EAST, STE A
IDAHO FALLS, IDAHO 83401
Phone: (208) 552-9674
Fax: (208) 552-9302
www.es2eng.com

STRUCTURAL • MEP • BUILDING COMMISSIONING

SEAL:

PROJECT:
ROOF TRUSS IMPROVEMENTS FOR:
MENAN 2, 5 (SP)
MENAN, ID
PROPERTY #: 507-2638

SHEET TITLE:
GENERAL STRUCTURAL NOTES

REV.	DESCRIPTION	DATE
	RECORD DRAWINGS	2/19/15

DRAWN: GTC
CHECKED: DBP

DATE: AUGUST 27, 2014
PROJECT NUMBER: 14.2015.02
SHEET NUMBER:

S0.1

PRINTED: Feb 24, 2015

FRAMING PLAN NOTES

FRAMING:

A. [- - - - - - -] INDICATES EXISTING WALLS, SEE PLAN FOR LOCATIONS.

B. (E) INDICATES EXISTING STRUCTURE.

MISC:

A. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND STRUCTURAL ELEMENT LOCATIONS. SHOULD EXISTING CONDITIONS VARY FROM THE PLANS, NOTIFY THE ENGINEER.

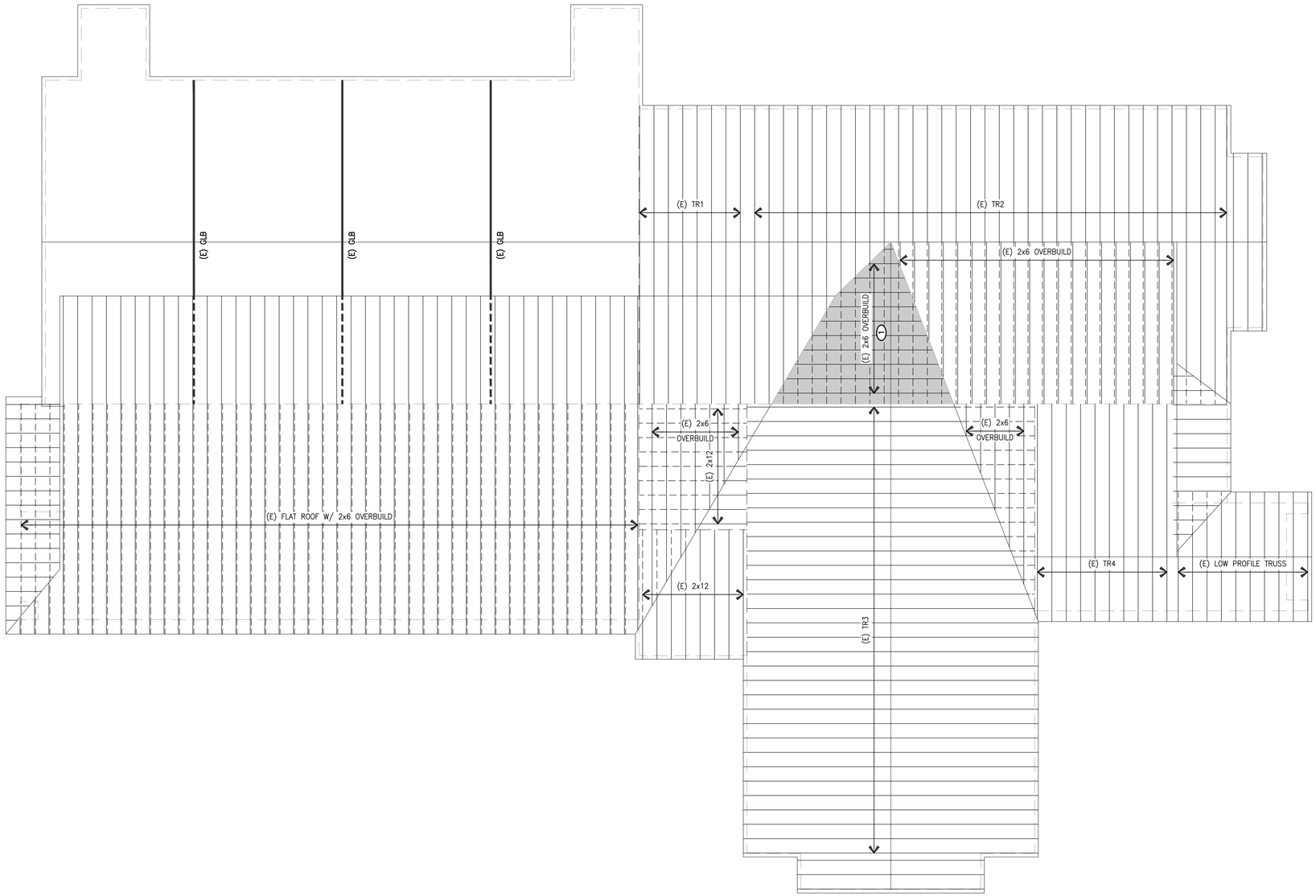
B. AT LOCATIONS THAT REQUIRE REMOVAL OF EXISTING ROOF SHEATHING TO PERFORM REPAIRS, REFER TO DETAIL B/S1.1 FOR SHEATHING REPLACEMENT.

AS BUILT

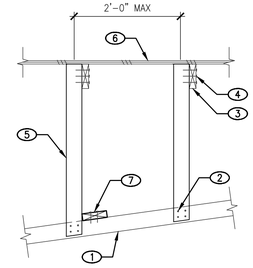
C. GUSSETS MAY BE DOUBLED ON ONE SIDE OF TRUSS WHERE EXISTING CONDITIONS PREVENT ATTACHMENT TO EACH SIDE, MAINTAIN TOTAL NUMBER OF REQUIRED NAILS FOR BOTH GUSSET AND PROVIDE BLOCKING BEHIND GUSSET WHERE GAP EXCEEDS 1/4".

KEYNOTES

1 REINFORCE OVERBUILD PER DETAIL A/S1.1 (BELOW).



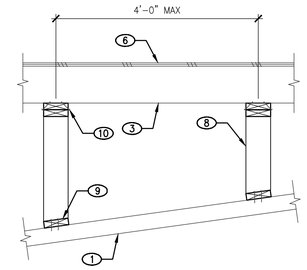
ROOF FRAMING PLAN SCALE: 1/8"=1'-0"



OVERBUILD FRAMING PERPENDICULAR TO ROOF FRAMING

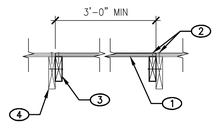
KEYNOTES:

1. EXISTING LOWER FRAMING MEMBER
2. (4) 16d NAILS, TYP
3. EXISTING OVERBUILD RAFTER
4. ATTACH OVERBUILD RAFTER TO 2x6 W/ (3) 16d NAILS
5. PROVIDE VERTICAL 2x6 AT 24" O.C., EACH WAY
6. EXISTING ROOF SHEATHING
7. PROVIDE 2x BRACE AT 4'-0" O.C. W/ (2) 16d NAILS AT EACH TRUSS
8. PROVIDE WALLS AT 4'-0" O.C., W/ 2x6 AT 24" O.C. (MAX), ALIGN W/ LOWER FRAMING
9. (2) 16d NAILS AT EACH TRUSS MEMBER
10. (2) 16d TOE NAILS AT EACH TRUSS MEMBER

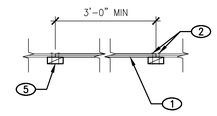


OVERBUILD FRAMING PARALLEL TO ROOF FRAMING

A S1.1 TYPICAL OVERBUILD RAFTER SUPPORT
NO SCALE



PARALLEL TO FRAMING



PERPENDICULAR TO FRAMING

KEYNOTES:

1. MATCH (E) ROOF SHEATHING
2. EDGE NAILING 8d NAILS AT 4" O.C.
3. CONT 2X6 BLOCKING, SISTER TO (E) JOIST W/ 16d NAILS AT 6" O.C.
4. (E) ROOF JOIST
5. 2x BLOCKING BETWEEN JOISTS AS REQUIRED

B S1.1 TYPICAL DIAPHRAGM REPLACEMENT DETAIL
NO SCALE

RECORD DRAWING

DATE: FEB 20, 2015

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PROJECT:

ROOF TRUSS IMPROVEMENTS FOR:
MENAN 2, 5 (SP)
MENAN, ID
PROPERTY #: 507-2638

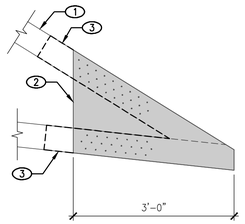
SHEET TITLE:

ROOF FRAMING PLAN

REV.	DESCRIPTION	DATE
	RECORD DRAWINGS	2/19/15

DRAWN: GTC | CHECKED: DBP

DATE: AUGUST 27, 2014
PROJECT NUMBER: 14.2015.02
SHEET NUMBER: **S1.1**



KEYNOTES:

1. EXISTING TRUSS
2. 5/8" PLYWOOD GUSSET EA SIDE W/ (26) 8d NAILS INTO TOP CHORD, (22) 8d NAILS INTO BOTTOM CHORD, AS SHOWN AND (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE AT EACH TRUSS MEMBER
3. BLOCKING PER NOTE A.

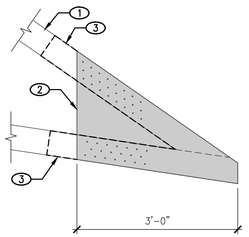
NOTES:

A. AS REQ'D ADD 2x BLOCKING SHAPE TO FIT TIGHT TO TRUSS WEB MEMBERS. GLUE EACH BLOCK WITH (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN BLOCK AND TRUSS WEB. EXTEND BLOCK 6" PAST GUSSETS. NAIL WITH (6) 10d COMMON NAILS

B. THICKER BLOCKING WILL BE REQUIRED TO ENSURE SOLID WOOD BETWEEN TRUSS MEMBERS AND GUSSET PLATE ON EACH SIDE

C. 1"ø ROUND HOLES MAY BE DRILLED THROUGH PLYWOOD GUSSETS AT EXISTING BOLTS

5 S2.1 TRUSS UPGRADE CONNECTION
NO SCALE



KEYNOTES:

1. EXISTING TRUSS
2. 5/8" PLYWOOD GUSSET EA SIDE W/ (24) 8d NAILS INTO TOP CHORD, (20) 8d NAILS INTO BOTTOM CHORD, AS SHOWN AND (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE AT EACH TRUSS MEMBER
3. BLOCKING PER NOTE A.

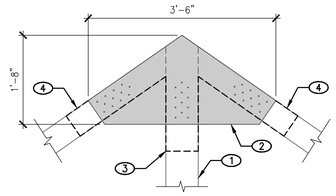
NOTES:

A. AS REQ'D ADD 2x BLOCKING SHAPE TO FIT TIGHT TO TRUSS WEB MEMBERS. GLUE EACH BLOCK WITH (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN BLOCK AND TRUSS WEB. EXTEND BLOCK 6" PAST GUSSETS. NAIL WITH (6) 10d COMMON NAILS

B. THICKER BLOCKING WILL BE REQUIRED TO ENSURE SOLID WOOD BETWEEN TRUSS MEMBERS AND GUSSET PLATE ON EACH SIDE

C. 1"ø ROUND HOLES MAY BE DRILLED THROUGH PLYWOOD GUSSETS AT EXISTING BOLTS

3 S2.1 TRUSS UPGRADE CONNECTION
NO SCALE



KEYNOTES:

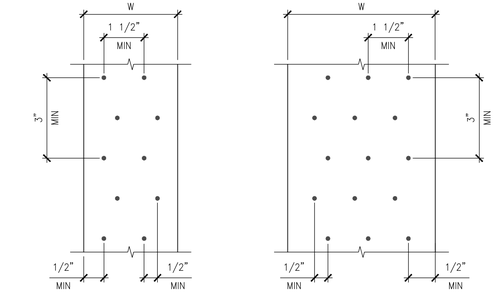
1. EXISTING TRUSS
2. 5/8" PLYWOOD GUSSET EA SIDE OVER EXISTING GUSSET W/ 10d NAILS (12) AT WEB MEMBERS AND (12) AT CHORD MEMBERS AS SHOWN W/ (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE AT EACH TRUSS MEMBER
3. BLOCKING AS REQUIRED TO FILL GAP BETWEEN TRUSS MEMBERS AND GUSSET PLATE
4. BLOCKING PER NOTE A.

NOTES:

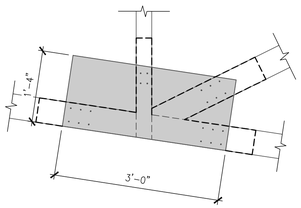
A. AS REQ'D ADD 2x BLOCKING SHAPE TO FIT TIGHT TO TRUSS WEB MEMBERS. GLUE EACH BLOCK WITH (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN BLOCK AND TRUSS WEB. EXTEND BLOCK 6" PAST GUSSETS. NAIL WITH (6) 10d COMMON NAILS

B. THICKER BLOCKING WILL BE REQUIRED TO ENSURE SOLID WOOD BETWEEN TRUSS MEMBERS AND GUSSET PLATE ON EACH SIDE

1 S2.1 TRUSS UPGRADE CONNECTION
NO SCALE



A S2.1 TYPICAL NAILING PATTERN
NO SCALE



KEYNOTES:

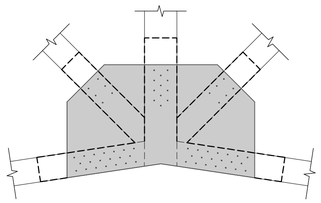
1. EXISTING TRUSS
2. 5/8" PLYWOOD GUSSET EA SIDE W/ 8d NAILS, (4) AT 2x4 WEB MEMBERS, (6) AT 2x6 WEB MEMBERS AND (6) AT CHORD MEMBERS AS SHOWN W/ (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE AT EACH TRUSS MEMBER
3. BLOCKING BEHIND MEMBER AS REQUIRED TO FILL GAP BETWEEN TRUSS MEMBERS AND GUSSET
4. BLOCKING AS REQUIRED TO FILL GAP BETWEEN TRUSS MEMBERS AND GUSSET PLATE
5. BLOCKING PER NOTE A.

NOTES:

A. AS REQ'D ADD 2x BLOCKING SHAPE TO FIT TIGHT TO TRUSS WEB MEMBERS. GLUE EACH BLOCK WITH (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN BLOCK AND TRUSS WEB. EXTEND BLOCK 6" PAST GUSSETS. NAIL WITH (6) 10d COMMON NAILS.

B. 1"ø ROUND HOLES MAY BE DRILLED THROUGH PLYWOOD GUSSETS AT EXISTING BOLTS

4 S2.1 TRUSS UPGRADE CONNECTION
NO SCALE



KEYNOTES:

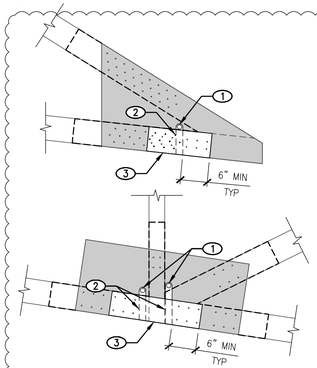
1. EXISTING TRUSS
2. 5/8" PLYWOOD GUSSET EA SIDE W/ 8d NAILS, (12) AT 2x8 WEB MEMBERS, (6) AT 2x6 WEB MEMBERS AND (20) AT CHORD MEMBERS AS SHOWN W/ (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE AT EACH TRUSS MEMBER
3. BLOCKING BEHIND MEMBER AS REQUIRED TO FILL GAP BETWEEN TRUSS MEMBERS AND GUSSET
4. BLOCKING AS REQUIRED TO FILL GAP BETWEEN TRUSS MEMBERS AND GUSSET PLATE
5. BLOCKING PER NOTE A.

NOTES:

A. AS REQ'D ADD 2x BLOCKING SHAPE TO FIT TIGHT TO TRUSS WEB MEMBERS. GLUE EACH BLOCK WITH (2) 3/8"ø BEADS OF CONSTRUCTION ADHESIVE BETWEEN BLOCK AND TRUSS WEB. EXTEND BLOCK 6" PAST GUSSETS. NAIL WITH (6) 10d COMMON NAILS.

B. 1"ø ROUND HOLES MAY BE DRILLED THROUGH PLYWOOD GUSSETS AT EXISTING BOLTS

2 S2.1 TRUSS UPGRADE CONNECTION
NO SCALE

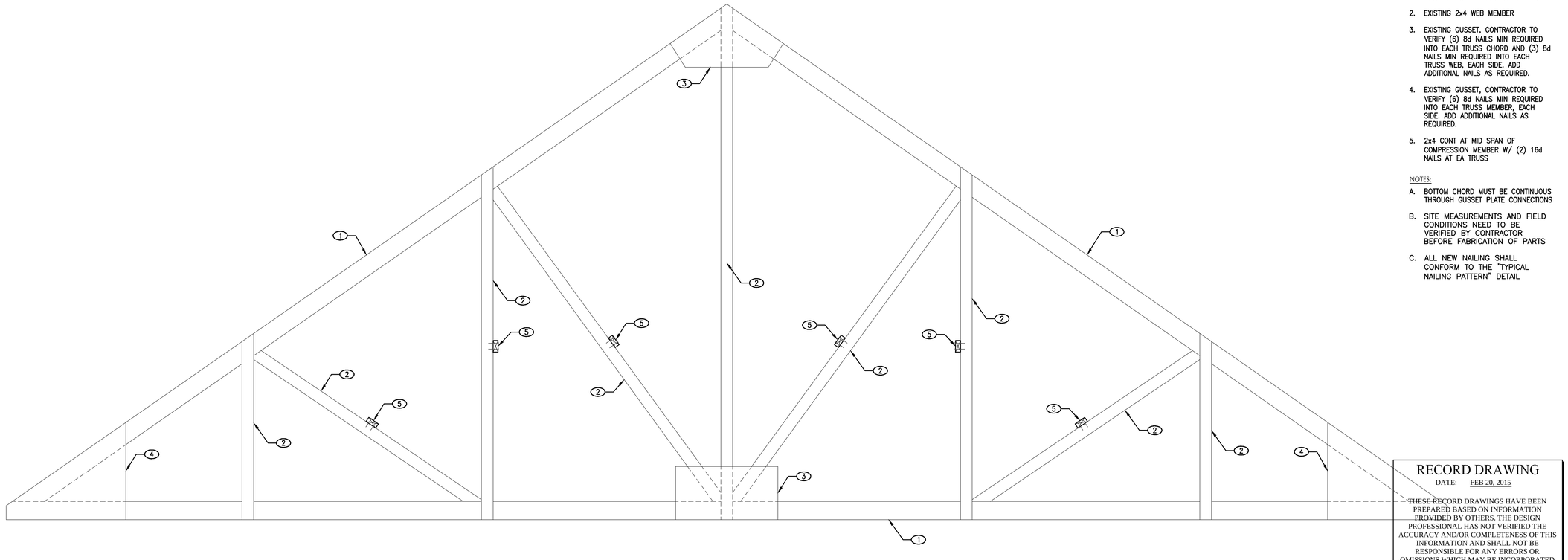


KEYNOTES:

1. EXISTING CONDUIT/WIRE AS OCCURS
2. NOTCH (N) GUSSET AS SHOWN TO AVOID (E) CONDUIT/WIRE (MAKE NOTCH AS SMALL AS POSSIBLE)
3. 5/8" PLYWOOD REINFORCEMENT PATCH, MATCH TRUSS MEMBER WIDTH AND EXTEND 6" MIN BEYOND NOTCH EA SIDE ATTACH TO TRUSS MEMBER W/ GLUE PER GUSSET REQUIREMENTS AND (6) 8d NAILS EA SIDE AS SHOWN

B S2.1 TYPICAL GUSSET NOTCH AT EXITING CONDUIT/WIRE
NO SCALE

AS BUILT



KEYNOTES:

1. EXISTING BOTTOM AND TOP CHORD
2. EXISTING 2x4 WEB MEMBER
3. EXISTING GUSSET, CONTRACTOR TO VERIFY (6) 8d NAILS MIN REQUIRED INTO EACH TRUSS CHORD AND (3) 8d NAILS MIN REQUIRED INTO EACH TRUSS WEB, EACH SIDE. ADD ADDITIONAL NAILS AS REQUIRED.
4. EXISTING GUSSET, CONTRACTOR TO VERIFY (6) 8d NAILS MIN REQUIRED INTO EACH TRUSS MEMBER, EACH SIDE. ADD ADDITIONAL NAILS AS REQUIRED.
5. 2x4 CONT AT MID SPAN OF COMPRESSION MEMBER W/ (2) 16d NAILS AT EA TRUSS

NOTES:

A. BOTTOM CHORD MUST BE CONTINUOUS THROUGH GUSSET PLATE CONNECTIONS

B. SITE MEASUREMENTS AND FIELD CONDITIONS NEED TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION OF PARTS

C. ALL NEW NAILING SHALL CONFORM TO THE "TYPICAL NAILING PATTERN" DETAIL

A S2.1 TR1 PROFILE
NO SCALE

RECORD DRAWING
DATE: FEB 20, 2015

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STRUCTURAL • MEP • BUILDING COMMISSIONING

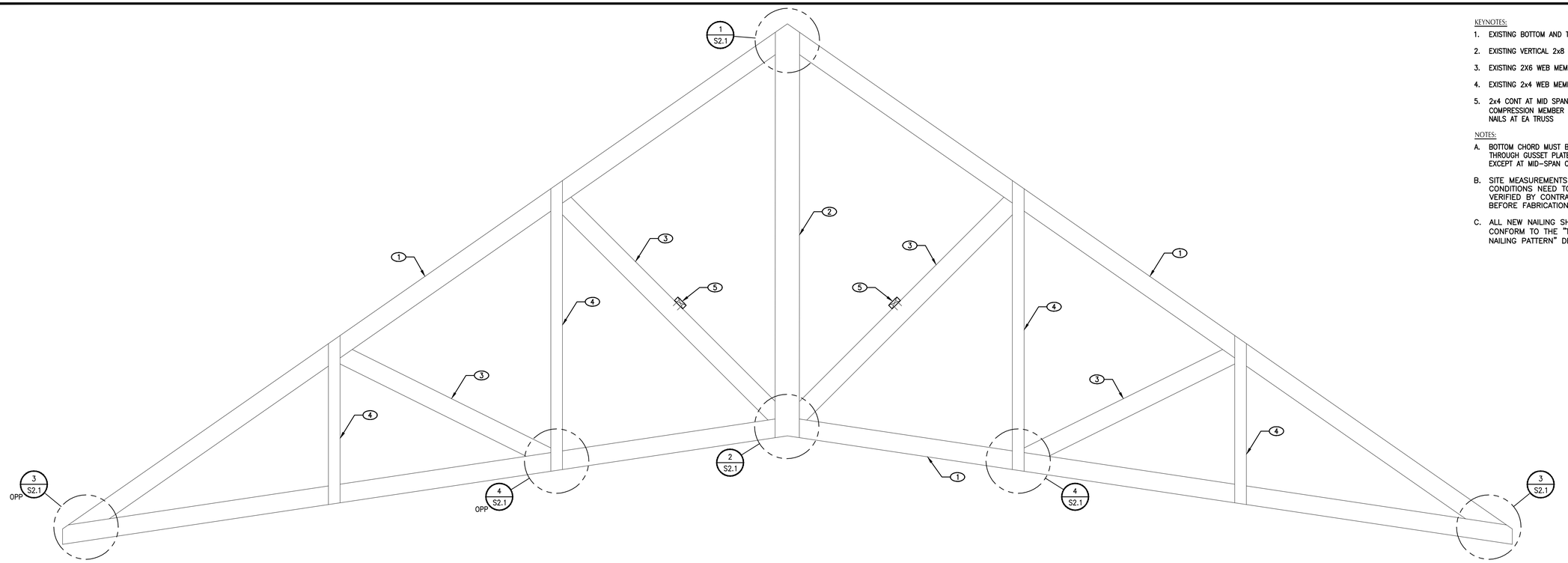
PROJECT:
ROOF TRUSS IMPROVEMENTS FOR:
MENAN 2, 5 (SP)
MENAN, ID
PROPERTY #: 507-2638

SHEET TITLE:
TRUSS DETAILS AND TRUSS PROFILE

DATE	DESCRIPTION	REV.
2/19/15	RECORD DRAWINGS	

DRAWN: GTC
CHECKED: DBP

DATE: AUGUST 27, 2014
PROJECT NUMBER: 14.2015.02
SHEET NUMBER: S2.1



KEYNOTES:

1. EXISTING BOTTOM AND TOP CHORD
2. EXISTING VERTICAL 2x8 WEB MEMBER
3. EXISTING 2X6 WEB MEMBER
4. EXISTING 2x4 WEB MEMBER
5. 2x4 CONT AT MID SPAN OF COMPRESSION MEMBER W/ (2) 16d NAILS AT EA TRUSS

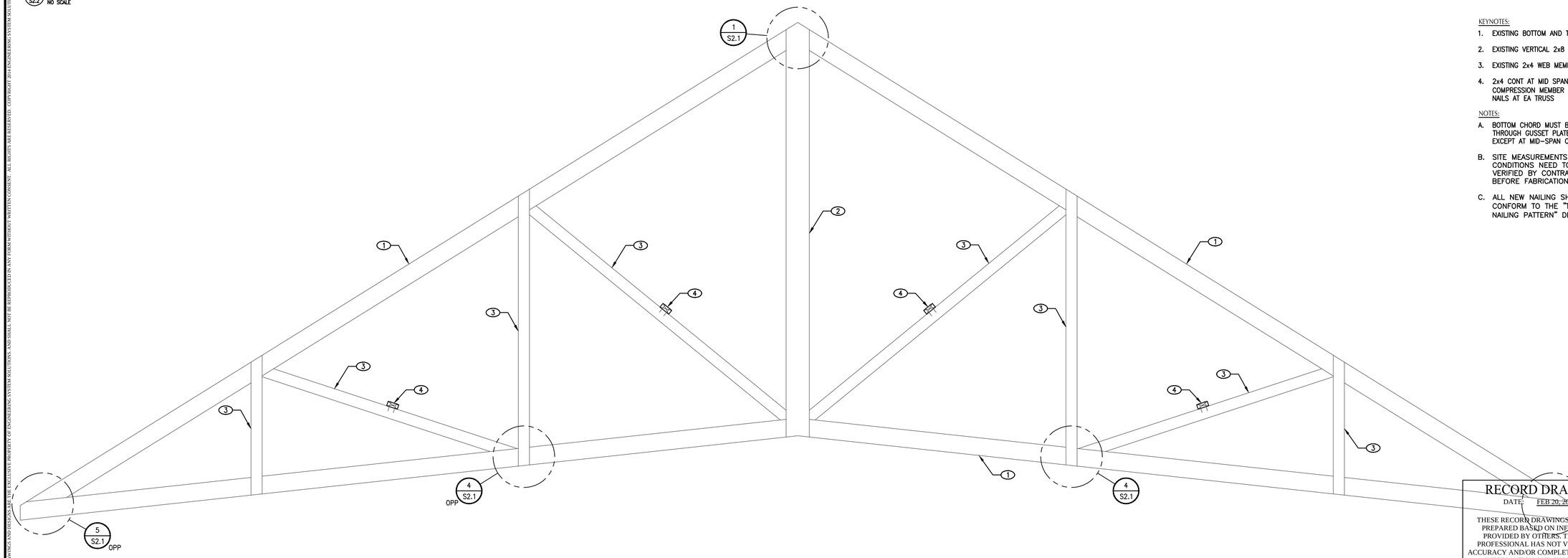
NOTES:

A. BOTTOM CHORD MUST BE CONTINUOUS THROUGH GUSSET PLATE CONNECTIONS, EXCEPT AT MID-SPAN CONNECTION

B. SITE MEASUREMENTS AND FIELD CONDITIONS NEED TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION OF PARTS

C. ALL NEW NAILING SHALL CONFORM TO THE "TYPICAL NAILING PATTERN" DETAIL

B S2.2 TR2 PROFILE
NO SCALE



KEYNOTES:

1. EXISTING BOTTOM AND TOP CHORD
2. EXISTING VERTICAL 2x8 WEB MEMBER
3. EXISTING 2x4 WEB MEMBER
4. 2x4 CONT AT MID SPAN OF COMPRESSION MEMBER W/ (2) 16d NAILS AT EA TRUSS

NOTES:

A. BOTTOM CHORD MUST BE CONTINUOUS THROUGH GUSSET PLATE CONNECTIONS, EXCEPT AT MID-SPAN CONNECTION

B. SITE MEASUREMENTS AND FIELD CONDITIONS NEED TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION OF PARTS

C. ALL NEW NAILING SHALL CONFORM TO THE "TYPICAL NAILING PATTERN" DETAIL

C S2.2 TR3 PROFILE
NO SCALE

RECORD DRAWING
DATE: FEB 20, 2015

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PROJECT:
ROOF TRUSS IMPROVEMENTS FOR:
MENAN 2, 5 (SP)
MENAN, ID
PROPERTY #: 507-2638

SHEET TITLE:
TRUSS PROFILES

REV.	DESCRIPTION	DATE
	RECORD DRAWINGS	2/19/15

DRAWN: GTC
CHECKED: DBP

DATE: AUGUST 27, 2014
PROJECT NUMBER: 14.2015.02
SHEET NUMBER:
S2.2

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

Roof Trusses Evaluation Report
of the
Meetinghouse
at
3547 E Menan-Lorenzo Hwy, Menan, ID

LDS Property No. 507-2638

Prepared by ES²

February 21, 2013

PROFESSIONAL ENGINEER
REGISTERED
9251
STATE OF IDAHO
DOUGLAS H WEBER

4943 North 29th East, Ste A, Idaho Falls, ID, Phone (208)-552-9874, Fax (208)-552-9302, Email Address contactus@es2eng.com

Executive Summary

BUILDING DATA

LDS Property Number:	507-2638	**Previous Structural Evaluation Report Date:**	8/24/2012
LDS Building Plan Type:	Undefined	**Year Constructed:**	1937
Site Visit Date:	9/6/2012	**Year(s) of Additions:**	1970, 1987
Original Report Date:	9/27/2012	**Total Building Area:**	~18,000 sq. ft.
Structural Engineer:	Doug Weber	**Number of Stories:**	2
Firm Job Number:	STR12.1121.05	**Basement:**	1

COST ESTIMATE

STRUCTURAL:	$24,700
TOTAL CONSTRUCTION COST:	$ 24,700
STRUCTURAL DESIGN FEE:	$3,500
STRUCTURAL OBSERVATION FEE:	$1,500
SPECIAL INSPECTION FEE:	$3,000
TOTAL FEES:	$ 8,000
TOTAL STRUCTURAL COST[1]:	$ 32,700

1. **Estimates shown above do not include costs for removal and replacement of roofing or other replacements and improvements costs related to structural upgrade work.**

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1. Structural Description

Table 1-1

VERTICAL LOAD-RESISTING ELEMENTS FOR THE HIGH ROOF SECTIONS

Element	Description
Sheathing:	1x8 overlaid with plywood sheathing
Joists:	2x6, 2x10, 2x12
Roof Beams/Girders:	GLB, 2x beams
Truss Type 1:	Wood truss with ½" plywood gusset and simple nail connections
Truss Type 2:	Wood truss with 1x wood gusset, bolted connections, and simple nail connections
Truss Type 3:	Wood scissor truss with 1x wood gusset, bolted connections, and simple nail connections
Truss Type 4:	Wood truss with nailer plate connections
Attic insulation:	Fiberglass and blown-in insulation

Comments:

1. There are multiple additions spanning multiple years and types of construction.

Table 1-2

VERTICAL LOAD-RESISTING ELEMENTS FOR THE LOW ROOF SECTION

Element	Description
Sheathing:	Plywood sheathing
Joists:	2x6
Roof Beams/Girders:	2x beams
Truss Type 3:	Low profile
Attic insulation:	Unable to access

Comments:

1. The lower roof comprises roof extensions over flat roof sections and low profile trusses.

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Table 1-3

TRUSS TYPE 1

Truss location:	Classrooms		
Truss span (ft):	30	**Ridge connection:**	Plywood gussets 8d nails
Top chord:	2x6	**Top chord/Web connection:**	Plywood gussets 8d nails
Bottom chord:	2x6	**Bottom chord/Web connection:**	Plywood gussets 8d nails
Compression web members:	2x4	**Bottom chord splice connection:**	N/A
Tension web members:	2x4	**Bottom/Top chord connection:**	Plywood gussets 8d nails

Table 1-4

TRUSS TYPE 2

Truss location:	Classrooms		
Truss span (ft):	30	**Ridge connection:**	Plywood gussets 8d nails
Top chord:	2x6	**Top chord/Web connection:**	16d nails
Bottom chord:	2x6	**Bottom chord/Web connection:**	16d nails
Compression web members:	2x6	**Bottom chord/Bottom chord connection:**	1x gussets with ½" bolts
Tension web members:	2x4	**Bottom/Top chord connection:**	1x gussets with ½" bolts

Table 1-5

TRUSS TYPE 3

Truss location:	Chapel		
Truss span (ft):	34	**Ridge connection:**	1x gussets 10d nails
Top chord:	2x6	**Top chord/Web connection:**	16d nails
Bottom chord:	2x6	**Bottom chord/Web connection:**	16d nails
Web members:	2x4	**Bottom chord/Bottom chord connection:**	1x gussets with ½" bolts

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		Bottom/Top chord connection:	1x gussets with ½" bolts

Table 1-6

TRUSS TYPE 4

Truss location:		Offices	
Truss span (ft):	34	**Ridge connection:**	Nailer plates
Top chord:	2x6	**Top chord/Web connection:**	Nailer plates
Bottom chord:	2x6	**Bottom chord/Web connection:**	Nailer plates
Web members:	2x6	**Bottom chord splice connection:**	N/A
		Bottom/Top chord connection:	Nailer plates

2. Site Hazards

Table 2-1

SNOW CHARACTERIZATION

Parameter	Description
Roof snow load (psf):	28 psf
Ground snow load (psf):	37 psf

Reference:

1. Sack, Ronald L., & Sheikh-Taheri, Azim (1986). *Ground and Roof Snow Loads for Idaho*. Department of Civil Engineering, University of Idaho.

Comments:

1. Unbalanced snow loads were used in the evaluation of these trusses.

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3. Scope of Work

The objective of this study is to perform a visual screening (visual observation and engineering judgment) of the roof trusses, associated secondary framing, bracing, and support connections for deficiencies including failing/failed split ring truss connections and other identifiable roof framing deficiencies.

The scope also includes reviewing the roof truss as-built drawings and performing quick check calculations of the split ring truss connections and the gravity load carrying capacity of the roof trusses.

4. Findings

Table 4-1

STRUCTURAL DEFICIENCIES

No.	Item	Description	Photo No.
S-1	**Truss 1: Bearing site connection**	Nailing pattern does not satisfy calculations	**1**
S-2	**Truss 1: TC gusset to vertical web**	Nailing pattern does not satisfy calculations	**2**
S-3	**Truss 1: BC gusset to vertical web**	Nailing pattern does not satisfy calculations	**3**
S-4	**Truss 2: Bearing site connection**	Bolt and nailing pattern does not satisfy calculations	**4**
S-5	**Truss 2: TC and vertical web to gusset**	Nailing pattern does not satisfy calculations	**5**
S-6	**Truss 2: BC compression and tension web**	Nailing pattern does not satisfy calculations	**6**
S-7	**Truss 2: BC gusset to webs**	Bolt and nailing pattern does not satisfy calculations	**7**
S-8	**Truss 2: Overbuild at TR3**	Inadequate overbuild and unbraced top chords	**8,9,10**
S-9	**Truss 3: Bearing site connection**	Bolt and nailing pattern does not satisfy calculations	**11**
S-10	**Truss 3: TC gusset to vertical web**	Nailing pattern does not satisfy calculations	**12**
S-11	**Truss 3: BC to short span compression web**	Nailing pattern does not satisfy calculations	**13**

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Comments:

1. Truss 4 considered engineered and not evaluated.

2. Structural deficiencies provided in this report are based on site visit observations, review of provided existing drawings (benefit limited by incompleteness and/or difficulty reading), and the results obtained through analysis. Other deficiencies may not have been accessible or observable.

3. On-site verification is required and must occur during the construction phase when the structure is more accessible. Verification may result in additional deficiencies.

Table 4-2

STRUCTURAL DETERIORATION

No.	Item	Description	Photo No.
D-1	**Rodent**	Evidence of rodent activity	**N/A**

Comments:

1. No deterioration was seen in the truss systems.

2. Other deterioration may not have been accessible or observable.

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5. Recommendations

Table 5-1

STRUCTURAL UPGRADE MEASURES

No.	Item	Plan No.	Recommended Upgrade Year/Timing	Actual Upgrade Year
S-1	**Add extra fasteners**	5-1	Next reroof	
S-2	**Add extra fasteners**	5-1	2013	
S-3	**Add extra fasteners**	5-1	2013	
S-4	**Add extra fasteners**	5-1	Next reroof	
S-5	**Add extra fasteners**	5-1	2013	
S-6	**Add extra fasteners**	5-1	2013	
S-7	**Add extra fasteners**	5-1	2013	
S-8	**Restructure overbuild and brace top chords to distribute load**	5-1	2013	
S-9	**Add extra fasteners**	5-1	Next reroof	
S-10	**Add extra fasteners**	5-1	2013	
S-11	**Add extra fasteners**	5-1	2013	
D-1	**Continue to monitor and remove rodents if problem persists**	5-1	2013	

Comments:

1. Many of the deficiencies are based on the worst case snow loads on the roof.

4943 North 29th East, Ste A, Idaho Falls, ID, Phone (208)-552-9874, Fax (208)-552-9302, Email Address contactus@es2eng.com

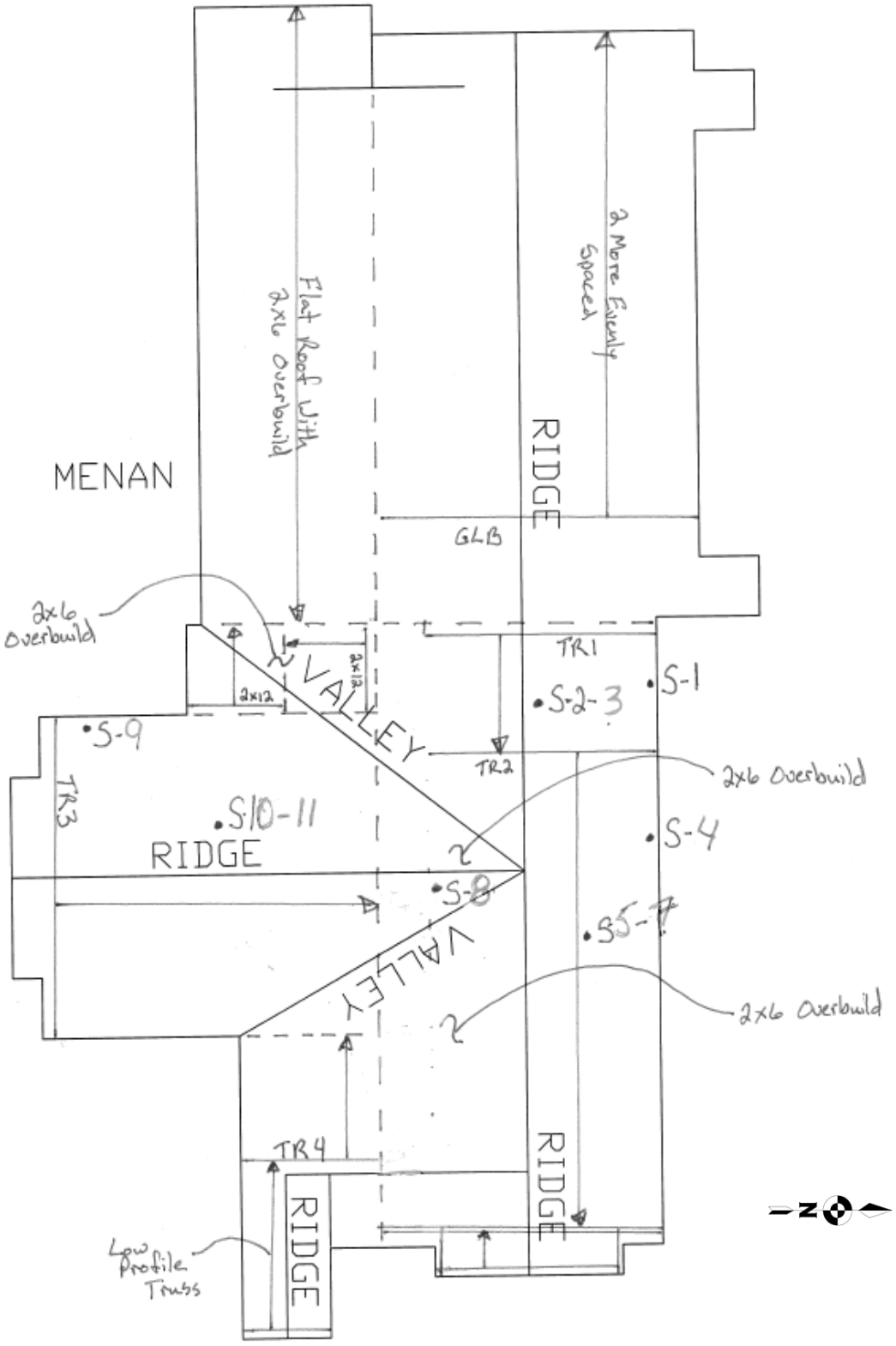

Figure 5-1 – Roof Plan – Deficiency Locations and Recommended Upgrades

Appendix A – Photographs

Photo 1 – Nailed bearing site connection

Photo 2 – TC gusset to vertical web

Photo 3 – BC gusset to vertical web

Photo 4 – Bearing site connection

Photo 5 – TC and vertical web to gusset

Photo 6 – BC compression and tension webs

Photo 7 – BC gusset to webs

Photo 8 – Roof overbuild

Photo 9 – Roof overbuild

Photo 10 – Roof Overbuild

Photo 11 – Bearing site connection

Photo 12 – Bearing site connection

Photo 13 – BC to short compression web

Appendix B – Structural Construction Cost Estimate Details

No.	Item	Cost	Recommended Upgrade Year/Timing
S-1	**Add extra fasteners**	$840	Next reroof
S-2	**Add extra fasteners**	$630	2013
S-3	**Add extra fasteners**	$630	2013
S-4	**Add extra fasteners**	$3,600	Next reroof
S-5	**Add extra fasteners**	$2,700	2013
S-6	**Add extra fasteners**	$2,700	2013
S-7	**Add extra fasteners**	$2,700	2013
S-8	**Restructure overbuild and brace top chords to distribute load**	$2,400	2013
S-9	**Add extra fasteners**	$3,000	Next reroof
S-10	**Add extra fasteners**	$2,250	2013
S-11	**Add extra fasteners**	$2,250	2013
D-1	**Continue to monitor and remove rodents if problem persists**	$1,000	2013
	TOTAL	$24,700	

Comments:

1. The cost estimate is intended to be a conceptual cost estimate based on the structural engineer's judgment.

4943 North 29th East, Ste A, Idaho Falls, ID, Phone (208)-552-9874, Fax (208)-552-9302, Email Address contactus@es2eng.com

5. Recommendations

Table 5-1

STRUCTURAL UPGRADE MEASURES

No.	Item	Plan No.	Recommended Upgrade Year/Timing	Actual Upgrade Year
S-1	**Add extra fasteners**	5-1	Next reroof	
S-2	**Add extra fasteners**	5-1	2013	2015
S-3	**Add extra fasteners**	5-1	2013	2015
S-4	**Add extra fasteners**	5-1	Next reroof	
S-5	**Add extra fasteners**	5-1	2013	2015
S-6	**Add extra fasteners**	5-1	2013	2015
S-7	**Add extra fasteners**	5-1	2013	2015
S-8	**Restructure overbuild and brace top chords to distribute load**	5-1	2013	2015
S-9	**Add extra fasteners**	5-1	Next reroof	
S-10	**Add extra fasteners**	5-1	2013	2015
S-11	**Add extra fasteners**	5-1	2013	2015
D-1	**Continue to monitor and remove rodents if problem persists**	5-1	2013	2015

Comments:

1. Many of the deficiencies are based on the worst case snow loads on the roof.

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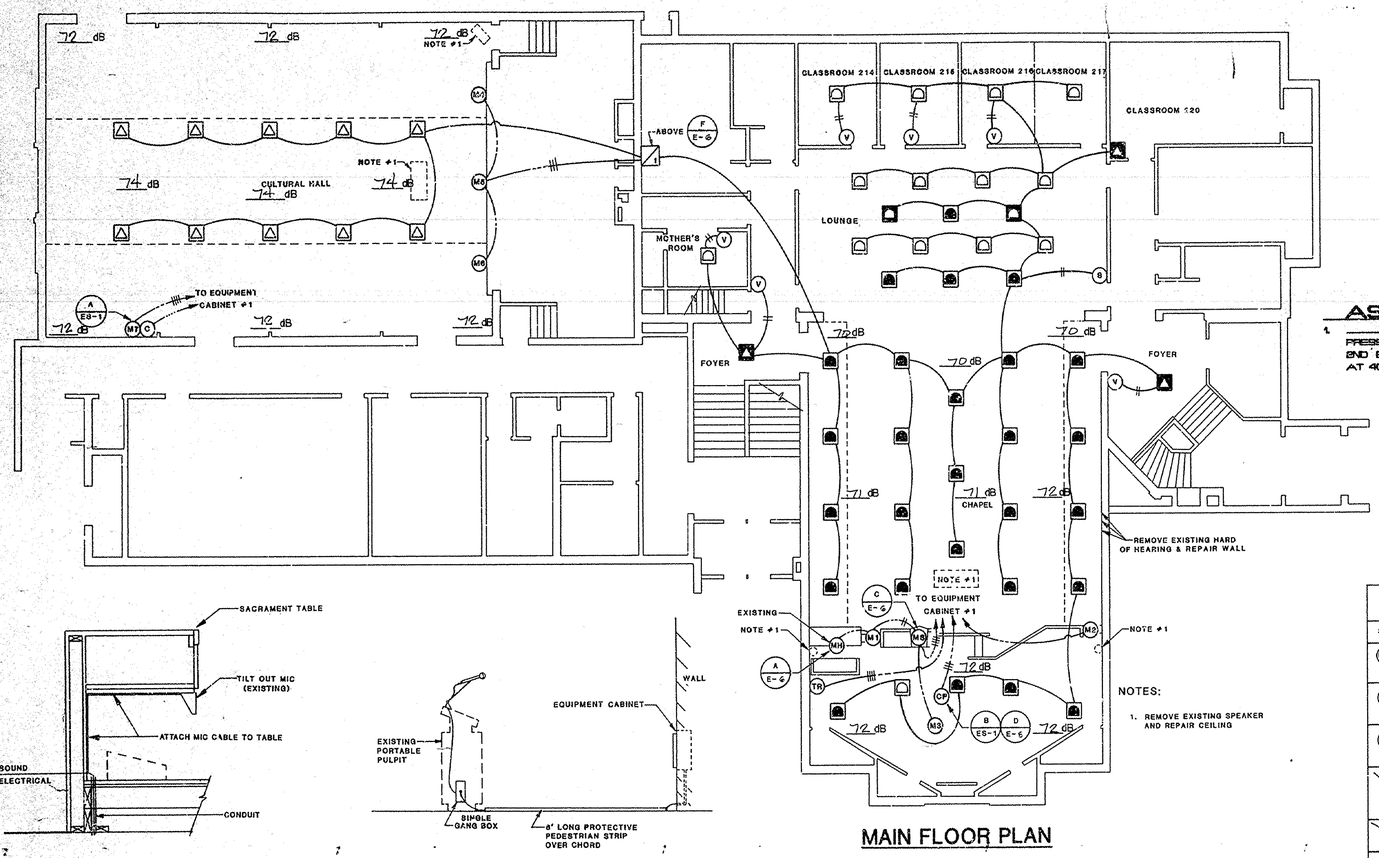
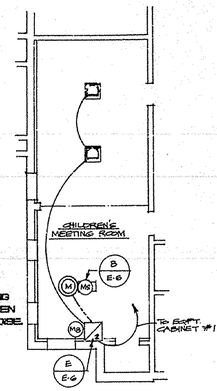


MAIN FLOOR PLAN

AS BUILT NOTES

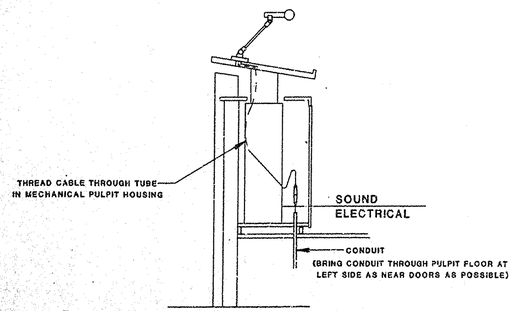
1. ____dB INDICATES LOCATION OF SOUND PRESSURE LEVEL READINGS TAKEN DURING 2ND EQUALIZATION. SPL READINGS TAKEN AT 4000 HZ, 1 OCTAVE BAND WITH PINK NOISE.



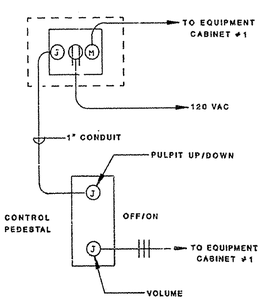
PARTIAL BASEMENT PLAN

SACRAMENT MIC SECTION (A)

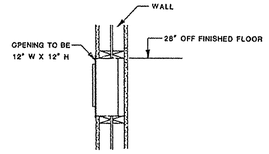
CHILDRENS MEETING ROOM SOUND SYSTEM DETAIL (B)



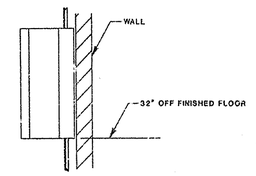
CHAPEL PULPIT SECTION (C)



CONTROL PEDESTAL & PULPIT ELECTRICAL DETAIL (D)



EQUIPMENT CABINET DETAIL (E)
NO SCALE



EQUIPMENT CABINET MOUNTING DETAIL (F)

ELECTRICAL CONTRACTOR

SYM	DESCRIPTION	QTY	MANUFACTURE & MODEL NUMBER
MS	Microphone, pulpit Stub conduit into location	A/R	
MH	Microphone, sacrament Stub conduit into location	A/R	
M1	Microphone input Single gang box not on horiz.	A/R	
	Microphone cable #20 Cross lines indicate # of cables if more than one	A/R	Belden 8762 Columbia 2524 West Penn 292
	Control cable #20 12 cond.	A/R	Belden 9457 West Penn 265
CP	Control pedestal Three single gang boxes	1	
TR	Tape recorder & satellite switch, Double gang box	1	
A	Amplifier, inwall 10 watt	1	IWE 170 B8 Marshall KL10 B8
	Speaker cable #20 Cross lines indicate # of cables if more than one	A/R	Belden 8205 Columbia 6351 West Penn 222
O	Overflow switch Single gang box	A/R	
V	Volume control Deep double gang box	A/R	
	Speaker, 8" recessed	A/R	Jedcor CM815 Soundolier M33198
	Speaker, 8" existing	A/R	
	Speaker, 4" recessed	A/R	Jedcor CM411 Soundolier M2840-A
	Speaker, 4" existing	A/R	
	Speaker, 4" blind short	A/R	Soundolier M4551-407
	Equipment cabinet 45" #1	1	HOME 193-C Soundolier 200-42
C	Control plate Double gang box	1	
1	Cable marking are to correspond w/ I. D. # on riser diagram		

DATE
10-APR-87
REVISION

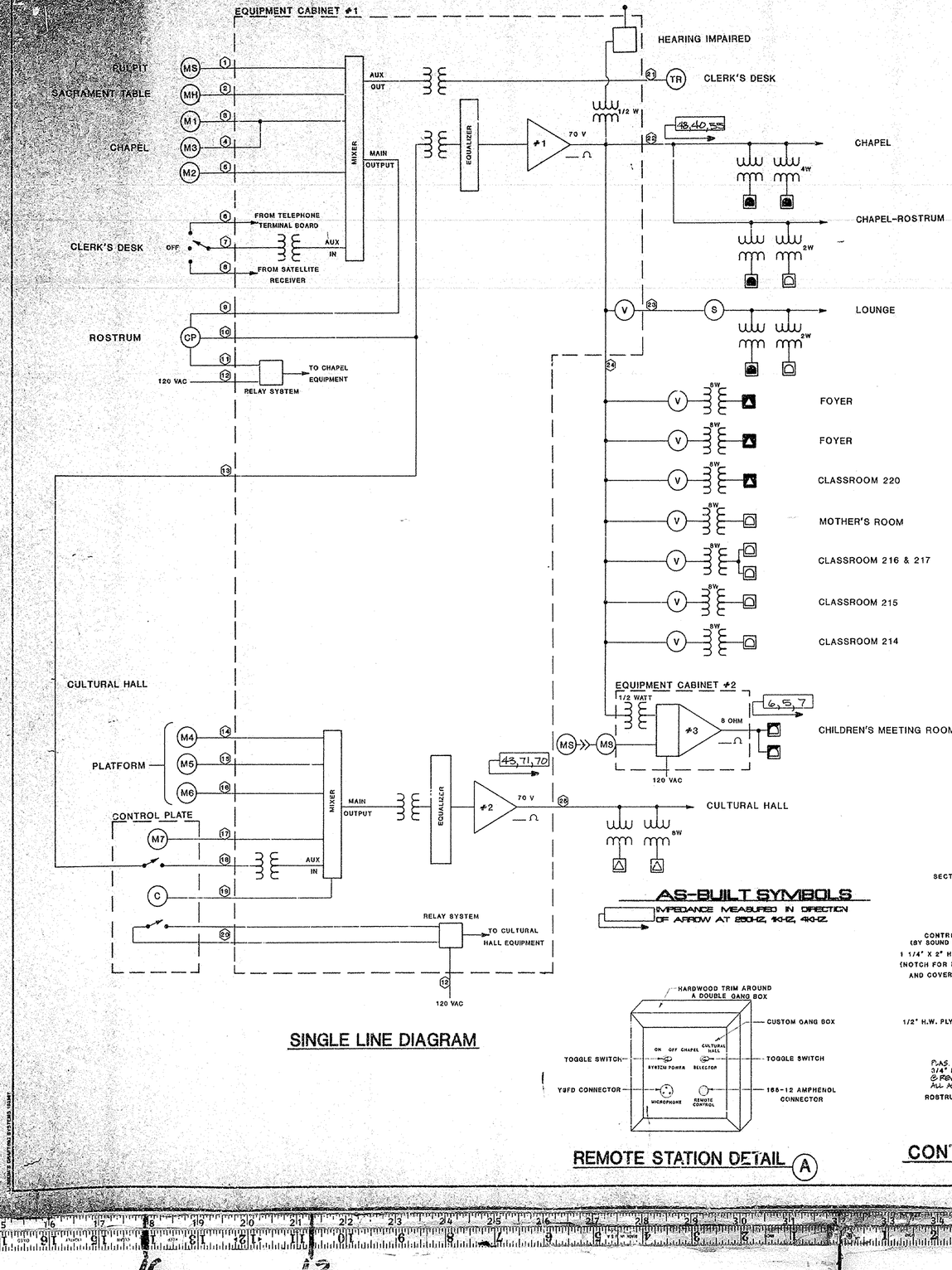
DROMMOND & ASSOC. INC.
BOUNTIFUL UTAH

MENAN 1st & 2nd WARDS
MENAN IDAHO STAKE

SOUND REINFORCEMENT SYSTEM 103064
AS-BUILT

PROJECT NUMBER
SM-2628-75

SHEET NUMBER
E-6

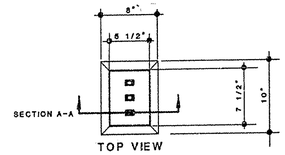


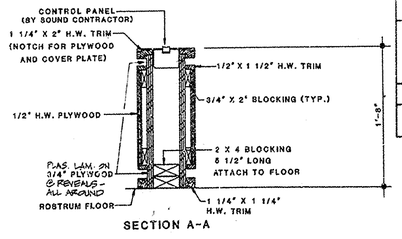
SINGLE LINE DIAGRAM

AS-BUILT SYMBOLS

IMPEDANCE MEASURED IN DIRECTION OF ARROW AT 250HZ, 1KHZ, 4KHZ

REMOTE STATION DETAIL (A)





CONTROL PEDESTAL DETAIL (B)

NOTES:

1. STAIN ALL EXPOSED WOOD TO MATCH EXISTING WOODWORK
2. MILLWORK PROVIDED BY GENERAL CONTRACTOR

SOUND CONTRACTOR

SYM	DESCRIPTION	QTY	MANUFACTURE & MODEL NUMBER
MS	Microphone	2	Electro-Voice RE-18 w/340 and Switchcraft A3F
MS	Microphone stand, pulpit	2	Atlas US-2 w/6" or 9" tube
	Microphone, multipurpose	2	Electro-Voice RE-18
	Microphone stand, stage	2	Electro-Voice 411A
MH	Microphone, sacrament	1	Existing
	Microphone stand, floor	1	Atlas MS-25 University UMS-103
	Multi-impedance box	1	IWE EJ-16
	Microphone cord	2	Audio-technica AT-8303/50 Electro-Voice 89724 Wireworks CSO-GY
M1	Microphone input	A/R	Switchcraft Y3FD w/wall plate
M	Microphone output	1	Switchcraft QGP-3-63
	Transformer	A/R	Altec 15356A w/socket Sound Tech S070 w/socket
	Mixer, automatic	1	IRP DE-4014
	Mixer, automatic w/remote	1	IRP DE-4016 w/DE-207 & mating connectors
CP	Control pedestal	1	IWE PC-3 Marshall PC-3
TR	Tape recorder & satellite switch	1	Altec 15356A w/socket ATS M1070 w/socket
		1	Switchcraft 11 & 3505F w/wall plate
		1	DPTT Switch (center off)
	Equalizer	2	White 4400 w/4390
	Hearing Impaired	1	Com-tek PR-72b
		1	Com-tek SM-N
		1	Com-tek M-72 BS w/remote antenna
		1	Com-tek RMK-1
		1	Com-tek P1
	Amplifier 100 watt #2	1	Altec 1594B TOA P-912 w/MB-931
	Amplifier 200 watt #1	1	Altec 1590C TOA P-924 w/MB-931A
	Amplifier, inwall 10 watt #3	1	IWE 170 IW
S	Overflow switch	A/R	DPST switch w/wall plate
V	Volume control	A/R	Soundolier AT-10 w/wall plate
V	Volume control	A/R	Soundolier AT-35
4W	Speaker transformer 4W	A/R	Electro-Voice TM5 JBL 931SHT Sound Tech S049 Soundolier HT 47
8W	Speaker transformer 8W	A/R	Electro-Voice TM15 Sound Tech S054 Soundolier HT 87
	Speaker, 8" recessed	A/R	Altec 409-8D JBL 8140H Soundolier C803
		A/R	Soundolier M9345
	Speaker, 8" existing	A/R	Altec 409-8D JBL 8140H Soundolier C803
	Speaker, 4" recessed	A/R	Altec 405-8H JBL 8110H Soundolier FC104
		A/R	Sounoolier T720-4
	Speaker, 4" existing	A/R	
	Speaker, 4" existing	A/R	Altec 405-8H JBL 8110H Soundolier FC104
	Speaker, 4" blind short	A/R	Altec 405-8H JDL 8110H Soundolier FC104
		A/R	Soundolier M4551-4BT
C	Control plate	1	Custom
	Relay system	A/R	IWE GC-1 Marshall ESP 815

DATE 10-APR-87
REVISION

D

DRUMMOND & ASSOC. INC.
BOUNTIFUL UTAH

MENAN 1st & 2nd WARDS
MENAN IDAHO STAKE

SINGLE LINE DIAGRAM
AS-BUILT
103064

PROJECT NUMBER
507-2628-75

SHEET NUMBER
ES-1

EQUIPMENT RACK

IMPAIRED HEARING TRANSMITTER
COMTEK M-72
SER. NO. X4259

CHAPEL AMPLIFIER
TOA P-924
SER. NO. 44958

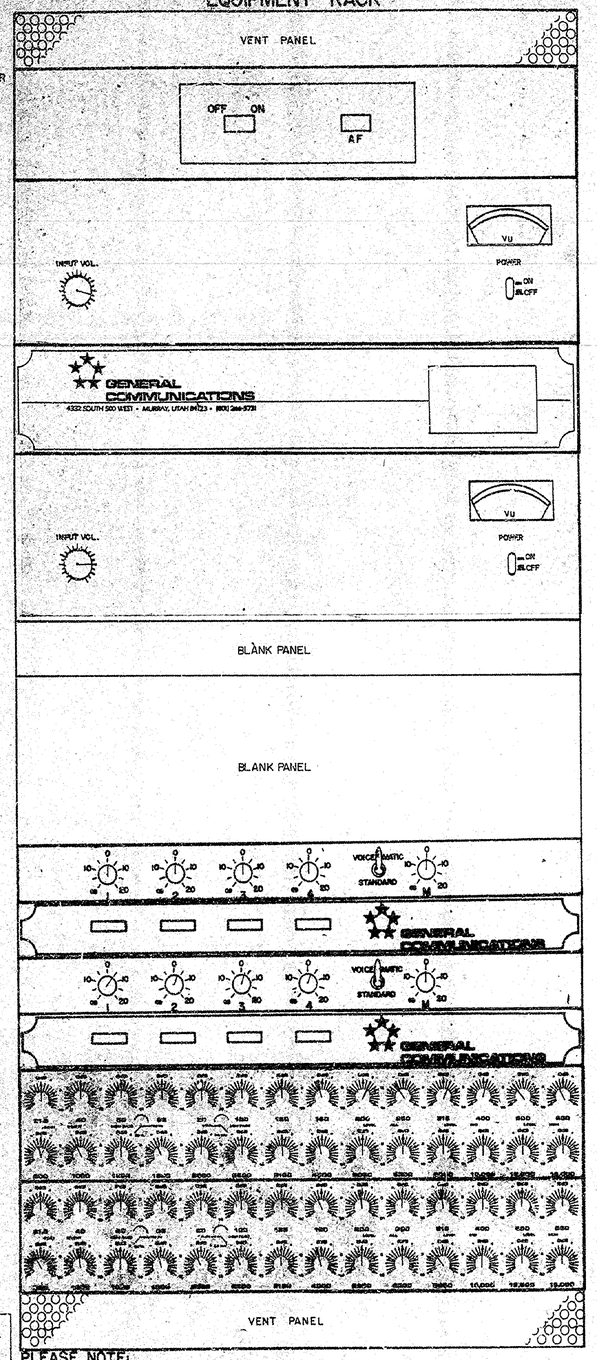
CULTURAL HALL
TOA P-924
SER. NO. 5062

CULTURAL HALL MIXER
IRP 4016
SER. NO. 88023721

CHAPEL MIXER
IRP 4014
SER. NO. B7094720

CULTURAL HALL EQUALIZER
WHITE 4400
SER. NO. 6552G

CHAPEL EQUALIZER
WHITE 4400
SER. NO. 6557G



DATE INSTALLED 2-26-88

DATE OF 2nd E.Q. 7-6-88

PLEASE NOTE:
THIS SOUND SYSTEM HAS BEEN CAREFULLY BALANCED AND EQUALIZED FOR OPTIMUM RESULTS. CHANGING CONTROL SETTINGS FROM THOSE SHOWN ON DRAWING WILL SERIOUSLY DEGRADE PERFORMANCE AND VOID WARRANTY. FOR SERVICE OR ASSISTANCE PLEASE CALL GENERAL COMMUNICATIONS, SERVICE DEPARTMENT (801) 264-5731

CONTRACTORS

NAME	ADDRESS
OK Construction, Inc.	P.O. Box 1387
	3195 No. Yellowstone
	Idaho Falls, ID 83403
Hale Electric	Route 2 Box 3768
	Idaho Falls, ID 83401

GENERAL COMMUNICATIONS INSTALLERS

NAME	DATE COMPLETED
Brad Harris	2-26-88
Tim Taylor 2nd EQ	7-6-88

OWNERS REPRESENTATIVES TRAINED ON SYSTEM

NAME	POSITION	DATE
Mike McLow		2-27-88
Viola Hall	Custodian	7-6-88

REVISIONS

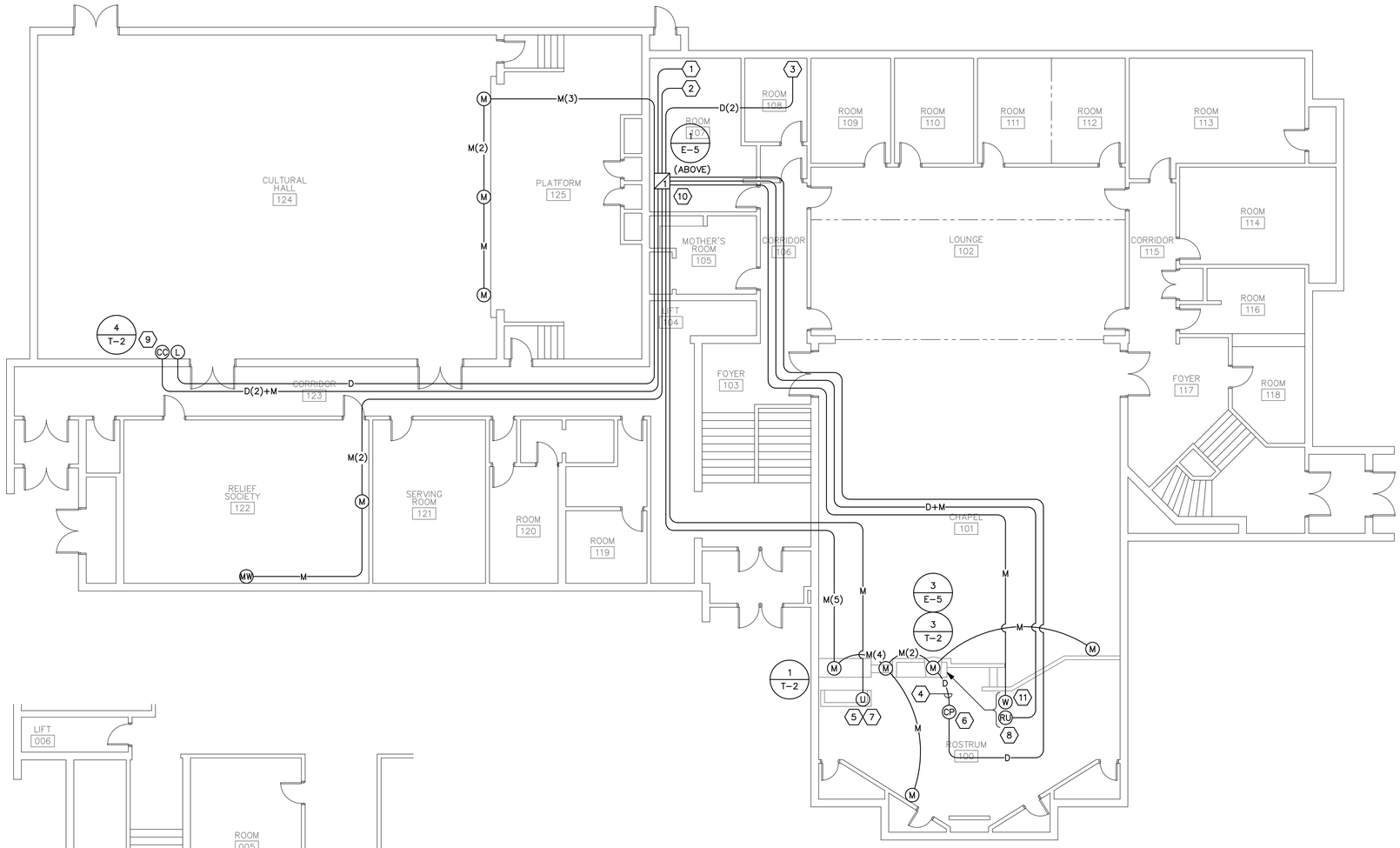
GENERAL COMMUNICATIONS
4332 SOUTH 500 WEST
MURRAY, UTAH 84123
(801) 264-5731

PROJ. NO. 103064

DATE JAN 1989

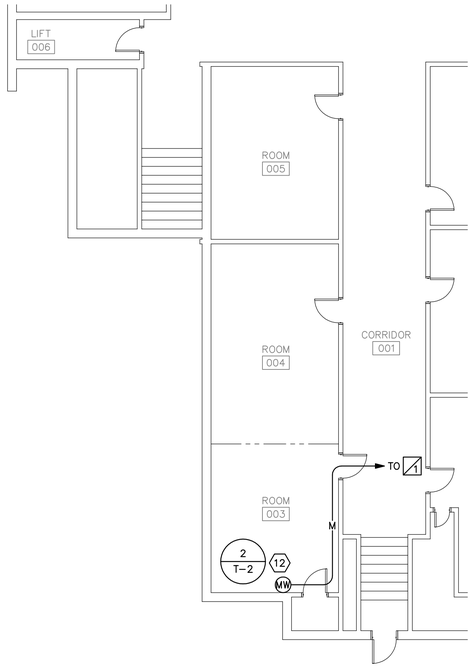
PROJECT TITLE
MENAN 1,2 WARDS
507-2628
AS-BUILT

SHEET
ES-2



2 MAIN FLOOR MICROPHONE LAYOUT PLAN

1/8" = 1'-0"



1 BASEMENT MICROPHONE LAYOUT PLAN

1/8" = 1'-0"

GENERAL SHEET NOTES

1. UNLESS NOTE, EXISTING CABLES MAY BE REUSED IF THEY ARE WITHOUT SPLICES AND CABLE PERFORMANCE EQUALS OR EXCEEDS SPECIFIED CABLE.
2. CONDUIT IS NOT REQUIRED IN EXISTING PORTIONS OF THE BUILDING WITH THE EXCEPTION OF WHERE EXPOSED TO VIEW. CABLE THAT IS EXPOSED TO VIEW MUST BE CONCEALED IN SURFACE RACEWAY OR WOOD TRIM. OBTAIN APPROVAL FROM THE FM MANAGER PRIOR TO INSTALLATION OF ANY SURFACE MOUNTED RACEWAY.
3. ALL OBSOLETE SOUND EQUIPMENT WILL REMAIN PROPERTY OF THE OWNER. REMOVE AND DELIVER TO THE FM GROUP.
4. CEILING MOUNTED SPEAKERS SHALL BE INSTALLED IN A SYMMETRICAL PATTERN AS SHOWN ON DRAWINGS. IF ANY SPEAKER MUST BE MOVED MORE THAN ONE FOOT, CONTACT SOUND/ACOUSTICAL CONSULTANT.
5. SOUND SYMBOLS ARE NOT SHOWN TO SCALE. IF THERE IS ANY QUESTION REGARDING THE EXACT COMPONENT LOCATION, CONTACT SOUND/ACOUSTICAL CONSULTANT.
6. REFER TO DRAWINGS FOR EXACT NUMBER OF COMPONENTS WHERE QUANTITIES ARE NOT IDENTIFIED IN THE EQUIPMENT LIST.
7. SOUND CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH FM GROUP.
8. UNLESS NOTED, INSTALL ALL NEWLY SPECIFIED SPEAKER ENCLOSURES AND CABLE IN A RECESSED FASHION. NEWLY INSTALLED SURFACE MOUNTED SPEAKER ENCLOSURES AND CABLE WILL NOT BE ACCEPTED.
9. IF EXISTING CABLE THAT IS CURRENTLY SURFACE MOUNTED IS REPLACED, INSTALL THE NEW CABLE IN THE SAME FASHION OR IN A FULLY RECESSED MANNER.
10. LOOP EXTRA CABLES THROUGH JUNCTION BOXES. DO NOT CUT. DO NOT INSTALL DIFFERENT CABLE TYPES WITHIN THE SAME CONDUIT.
11. PROVIDE HARDWOOD SURROUNDS WITH ROUNDED CORNERS FOR ALL NEW AND EXISTING SURFACE MOUNTED BOXES.

SHEET KEYNOTES

1. PROVIDE 1 EACH #6 THHN WITH GREEN INSULATION TO THE MAIN ELECTRICAL PANEL GROUND BUS. AFFIX AT EACH END.
2. PROVIDE 1 EACH 1" CONDUIT TO ACCESSIBLE ATTIC SPACE FOR HEARING ASSISTANCE TRANSMITTER ANTENNA.
3. BUILDING NETWORK EQUIPMENT LOCATION. REPLACE EXISTING 8-PORT SWITCH WITH 16-PORT SWITCH AND CONNECT DATA CABLES FROM SOUND RACK.
4. TO PULPIT MOTOR CONTROL.
5. REMOVE EXISTING DEVICE AND CABLE. COVER LOCATION WITH A BLANK PLATE. COLOR OF PLATE TO MATCH ELECTRICAL DEVICES.
6. REMOVE EXISTING CONTROL PANEL. INSTALL NEW AUDIO CONTROL PANEL ON EXISTING CONTROL PEDESTAL.
7. REPLACE EXISTING AUX OUT JACK AND REMOVE OBSOLETE CABLES. HOMERUN NEW CABLES FROM DEVICES TO SOUND EQUIPMENT CABINET. DRESS LOCATION.
8. REMOVE EXISTING DEVICE(S) AND CABLE. INSTALL INDICATED DEVICE(S) IN EXISTING LOCATION.
9. REMOVE EXISTING CULTURAL CENTER CONTROL PANEL AND SURFACE BOX. MOUNT NEW CULTURAL CENTER CONTROL IN SAME LOCATION. PATCH AREA AS NEEDED.
10. REMOVE EXISTING EQUIPMENT CABINET AND CABLES. DELIVER OBSOLETE EQUIPMENT TO OWNER. INSTALL NEW CABINET IN SAME LOCATION.
11. INSTALL NEW SINGLE GANG JUNCTION BOX WITH INDICATED DEVICE ON SIDE OF PULPIT ABOVE EXISTING SINGLE GANG BOX AT OUTLET HEIGHT.
12. REMOVE EXISTING IN-WALL AMPLIFIER AND CABLES. COVER BOX WITH A BLANK METAL PLATE, PAINTED TO MATCH SURROUNDING SURFACE. INSTALL INDICATED DEVICES FLUSH IN PLATE.

SYMBOL LEGEND

- (M) SINGLE MICROPHONE INPUT
- (MW) MICROPHONE / LINE LEVEL INPUT
- (RU) NETWORK/ SOUND SYSTEM OUT
- (CC) CULTURAL CENTER AUDIO CONTROL PANEL
- (U) RECORD JACK
- (CP) CHAPEL AUDIO CONTROL PANEL
- (W) LINE LEVEL INPUT
- (L) CHAPEL OVERFLOW SWITCH

MARK	DATE	REVISION
	01-07-14	RECORD DRAWINGS

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

PROJECT FOR

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NAME

MENAN 2, 3 SOUND SYSTEM UPGRADE

PROJECT ADDRESS

3547 E. MENAN-LORENZO HIGHWAY
MENAN, IDAHO

SHEET TITLE

MAIN FLOOR MICROPHONE LAYOUT PLAN

PROJECT DESIGNATION
20130380.AWA

PROPERTY NUMBER
507-2638

DEVELOPMENT NUMBER
CUSTOM

DATE
22 AUG 2013

SHEET NO.
E-1

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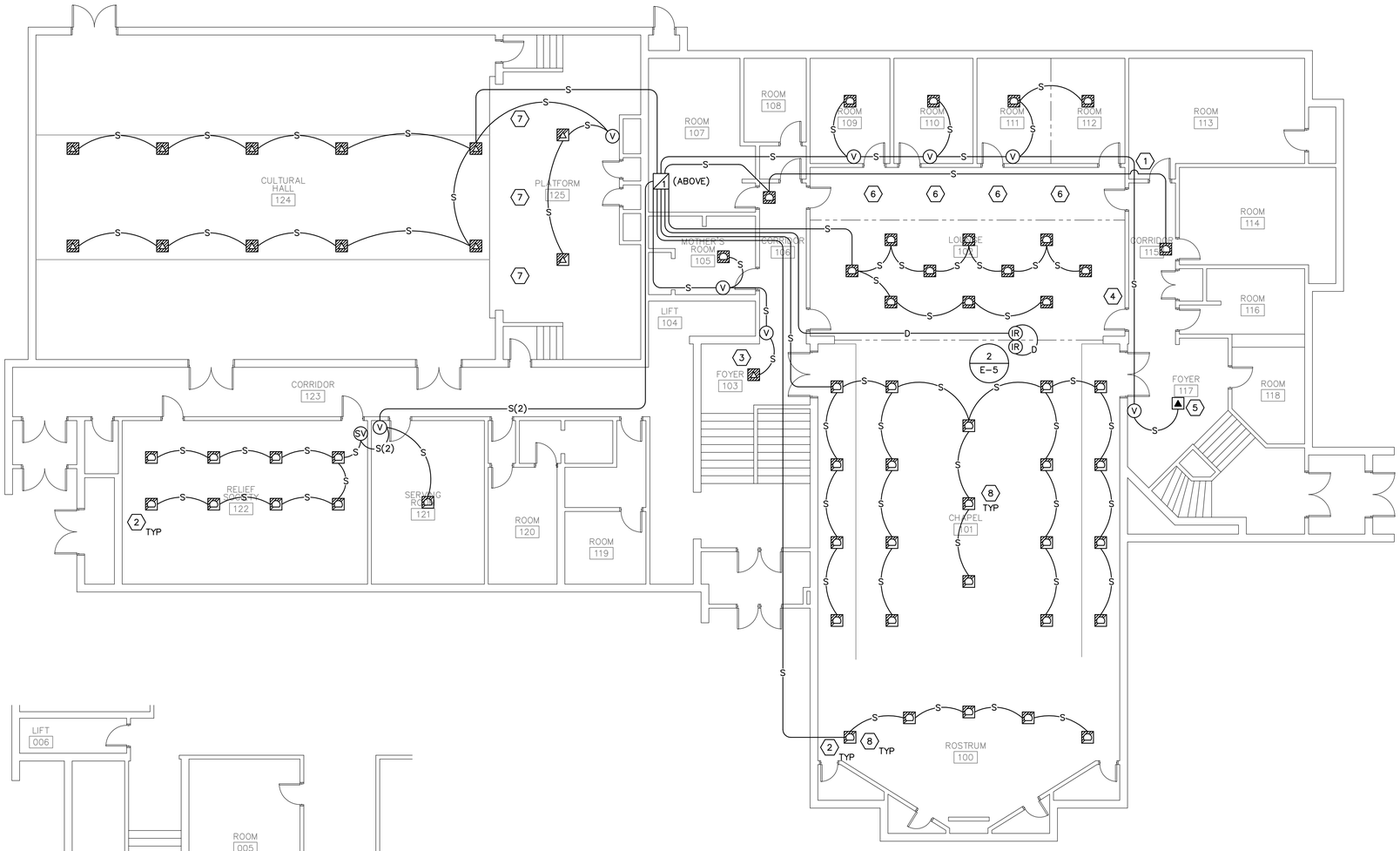
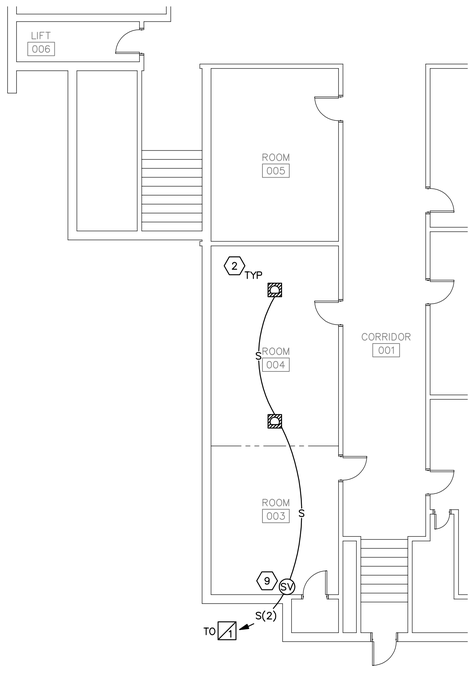


2 MAIN FLOOR SPEAKER LAYOUT PLAN

1/8" = 1'-0"



1 BASEMENT SPEAKER LAYOUT PLAN

1/8" = 1'-0"

SHEET KEYNOTES

1. REMOVE WALL SPEAKER AND COVER BACKBOX WITH A BLANK NYLON COVER PLATE. PATCH LOCATION AS NECESSARY.
2. INSTALL FIBERGLASS INSULATION IN ALL NEW AND EXISTING SPEAKER ENCLOSURES AS REQUIRED.
3. REPLACE EXISTING SQUARE 8" SPEAKER GRILLE.
4. REMOVE EXISTING DEVICE AND CABLE. COVER BACK BOX WITH BLANK NYLON COVER PLATE. COLOR OF PLATE TO MATCH ELECTRICAL DEVICES.
5. REPLACE EXISTING BACKCAN AND ADD TILE BRIDGE.
6. ABANDON EXISTING 4" SPEAKERS.
7. REMOVE EXISTING CEILING MOUNTED MICROPHONE INPUT AND CABLE. COVER BOX WITH A BLANK NYLON COVER PLATE TO MATCH ELECTRICAL DEVICES.
8. ADD BACKCAN TO EXISTING SPEAKER LOCATIONS, AS NEEDED.
9. REMOVE EXISTING IN-WALL AMPLIFIER AND CABLES. COVER BOX WITH A BLANK METAL PLATE, PAINTED TO MATCH SURROUNDING SURFACE. INSTALL INDICATED DEVICES FLUSH IN PLATE.

SYMBOL LEGEND

- (V) SOUND SYSTEM VOLUME CONTROL
- (SV) SOUND SYSTEM SOURCE SELECT/VOLUME CONTROL
- (IR) INFRARED SENSORS

MARK	DATE	REVISION
	01-07-14	RECORD DRAWINGS

SPECTRUM ENGINEERS
324 S. State St., Suite 400
Salt Lake City, UT 84111
800-678-7077
801-328-5151
fax: 801-328-5155
www.spectrum-engineers.com

PROJECT FOR

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NAME

MENAN 2, 3 SOUND SYSTEM UPGRADE

PROJECT ADDRESS

3547 E. MENAN-LORENZO HIGHWAY
MENAN, IDAHO

SHEET TITLE

MAIN FLOOR SPEAKER LAYOUT PLAN

PROJECT DESIGNATION
20130380.AWA

PROPERTY NUMBER
507-2638

DEVELOPMENT NUMBER
CUSTOM

DATE
22 AUG 2013

SHEET NO.
E-2

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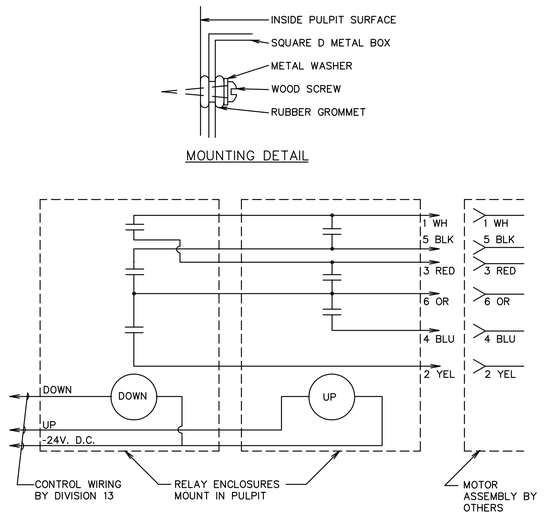
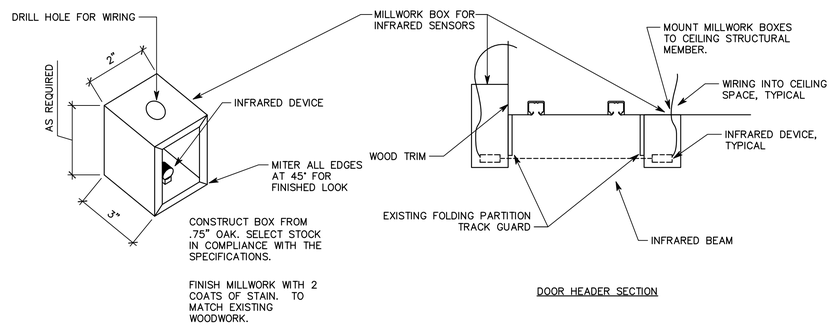


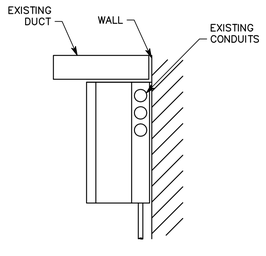
3 PULPIT MOTOR CONTROL DIAGRAM

NO SCALE



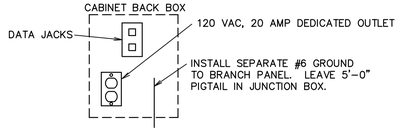
2 INFRARED SENSOR MOUNTING DETAIL

NO SCALE



4 EQUIPMENT CABINET MOUNTING DETAIL

NO SCALE



1 SOUND CABINET POWER WIRING

NO SCALE

ELECTRICAL EQUIPMENT LIST

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
(MW) (RU) (M) (W) (U)	3" DEEP, SINGLE GANG BOX MOUNTED RECESSED AT ELECTRICAL OUTLET HEIGHT, OR USE EXISTING BOX	OFP	EXCEPT AS NOTED
(SV)	3" DEEP, DOUBLE GANG BOX MOUNTED RECESSED AT ELECTRICAL SWITCH HEIGHT, OR USE EXISTING BOX	OFP	
(V) (L)	3" DEEP, SINGLE GANG BOX MOUNTED RECESSED AT ELECTRICAL SWITCH HEIGHT, OR USE EXISTING BOX	OFP	
(CC)	3.5" DEEP TRIPLE GANG BOX ORIENTED SIDEWAYS AT +5'-0" ABOVE FINISHED FLOOR, OR USE EXISTING	OFP	
(CP)	CONTROL PEDESTAL MILLWORK, EXISTING	0	NO REQUIREMENT
(IR)	MILLWORK BOX MOUNTED IN DOOR HEADER	OFP	SEE DETAIL THIS SHEET
1	SOUND EQUIPMENT CABINET	1	ATLAS SOUND 324-15 MIDDLE ATLANTIC DWR-24-22 W/ FD-24 AND DWRSR-ZL
	4" SPEAKER ENCLOSURE, EXISTING	0	NO REQUIREMENT
	4" RECESSED METAL SPEAKER ENCLOSURE, BLIND MOUNT	OFP	ATLAS SOUND BMT95-4-7
	8" RECESSED METAL SPEAKER ENCLOSURE	OFP	ATLAS SOUND BMT 95-8-7
	8" SPEAKER ENCLOSURE, EXISTING	0	NO REQUIREMENT
	8" RECESSED METAL SPEAKER ENCLOSURE, WITH T-BAR SUPPORT	OFP	ATLAS SOUND EZ 195-8 W/ FIBERGLASS
D(X)	CATEGORY 5, NON-SHIELDED, NON- PLENUM. (X) INDICATES NUMBER OF CABLES IF MORE THAN ONE	A/R	BELDEN DATABRITE 1583B WEST PENN 4245 LIBERTY 24-4P-L5-EN OR AS APPROVED BY CONSULTANT
M(X)	MICROPHONE CABLE, STRANDED (X) INDICATES NUMBER OF CABLES IF MORE THAN ONE	A/R	BELDEN 9451 WEST PENN 454 LIBERTY 22-IP-EZ OR AS APPROVED BY CONSULTANT
S(X)	SPEAKER CABLE, 16 AWG, TWISTED PAIR, JACKETED. (X) INDICATES NUMBER OF CABLES IF MORE THAN ONE	A/R	BELDEN 8471 WEST PENN 225 LIBERTY 16-2C-GRY OR AS APPROVED BY CONSULTANT

MANUFACTURER'S NAMES AND TELEPHONE NUMBERS ARE LOCATED IN THE SPECIFICATIONS
A/R = AS REQUIRED. SEE DRAWINGS FOR QUANTITIES REQUIRED.
OFP = OBTAIN FROM PLANS. SEE DRAWINGS FOR QUANTITIES REQUIRED.

MARK	DATE	REVISION
	01-07-14	RECORD DRAWINGS

SPECTRUM ENGINEERS
324 S. State St., Suite 400
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801-328-5151
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www.spectrum-engineers.com

PROJECT FOR

THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROJECT NAME

MENAN 2, 3 SOUND SYSTEM UPGRADE

PROJECT ADDRESS

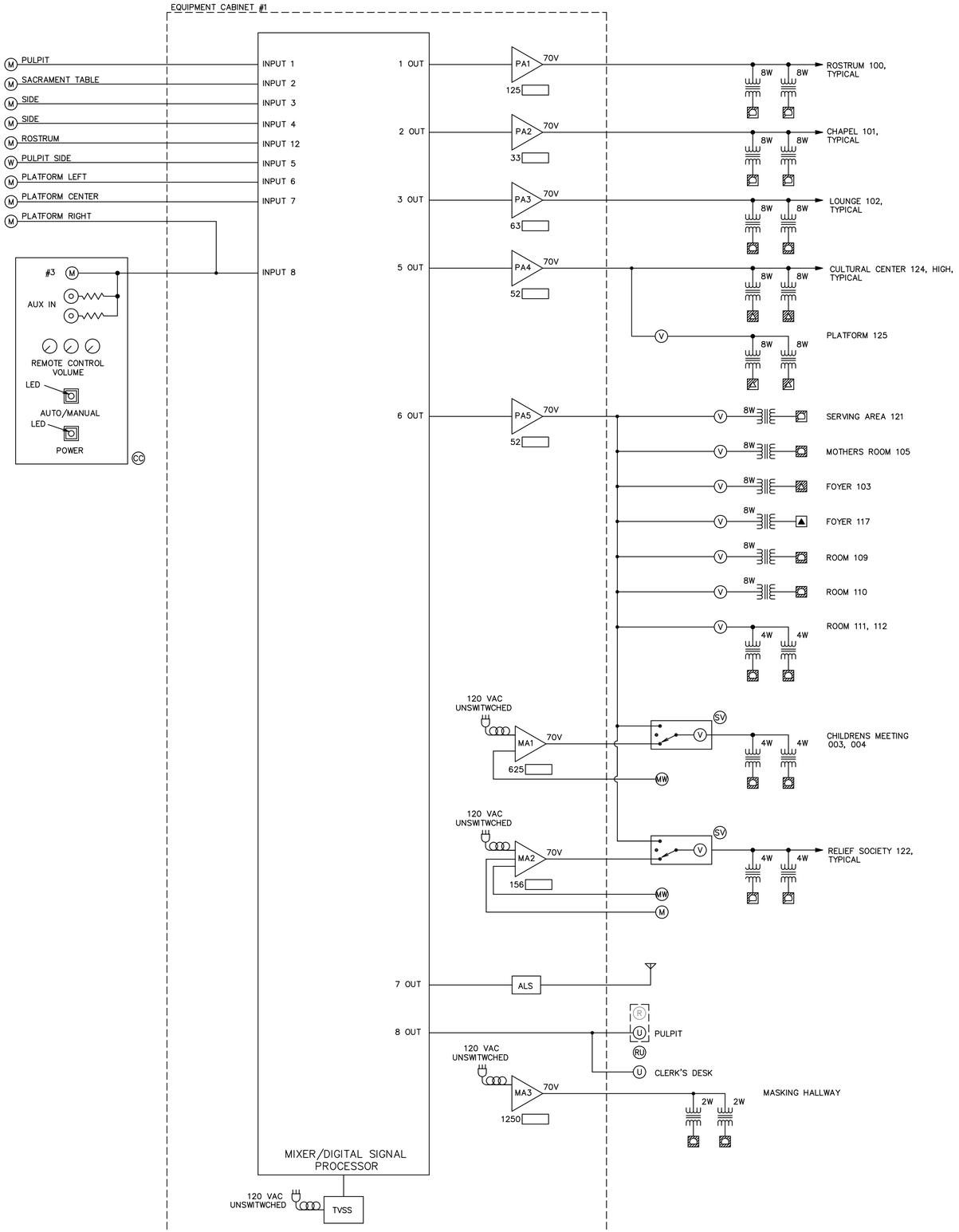
3547 E. MENAN-LORENZO HIGHWAY
MENAN, IDAHO

SHEET TITLE

ELECTRICAL EQUIPMENT LIST AND DETAILS

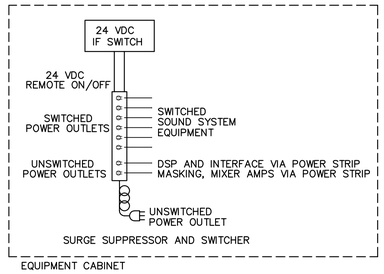
PROJECT DESIGNATION
20130380.AWA

PROPERTY NUMBER	SHEET NO.
507-2638	E-3
DEVELOPMENT NUMBER: CUSTOM	
DATE: 22 AUG 2013	



SOUND SYSTEM SINGLE LINE DIAGRAM (FOR BSS EQUIPMENT)

NO SCALE

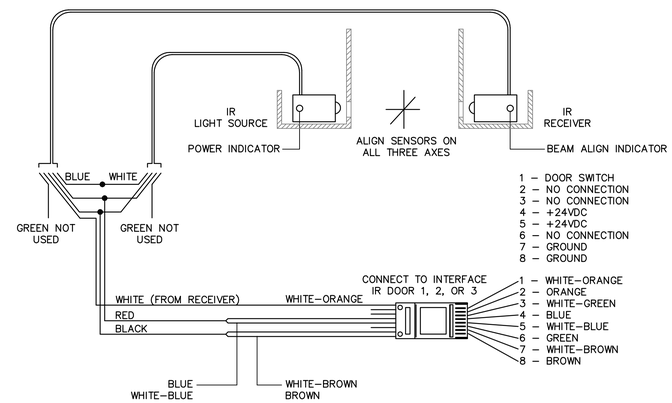


REMOTE CONTROL DIAGRAM

NO SCALE

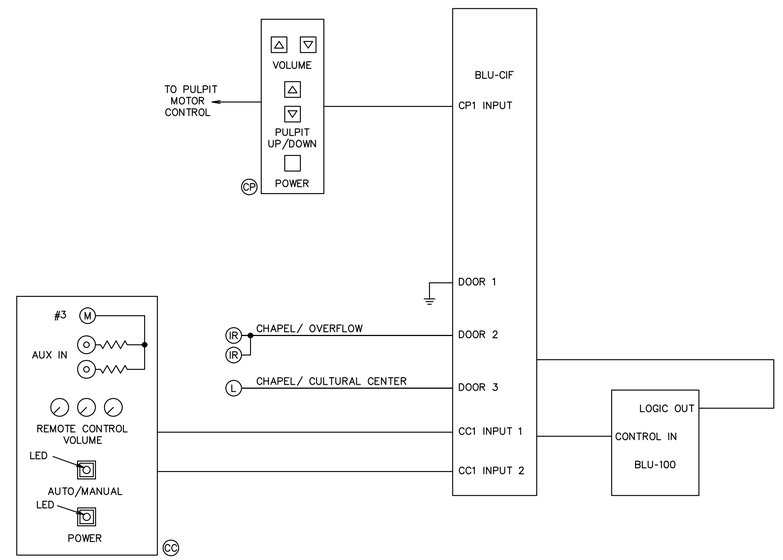
SOUND NOTES

1. ALL OBSOLETE SOUND EQUIPMENT WILL REMAIN PROPERTY OF THE OWNER. REMOVE AND DELIVER TO THE FM GROUP.
2. MOUNT SNUBBER DIODES ON ALL RELAYS. IT IS SOUND CONTRACTORS RESPONSIBILITY TO REMOVE STATIC CLICK IN SOUND SYSTEM WHEN PULPIT IS RAISED/LOWERED.
3. INSTALL THE HEARING ASSISTANCE SYSTEM ANTENNA IN ACCESSIBLE ATTIC SPACE. USE THE FACTORY SUPPLIED CABLE. DO NOT ALTER LENGTH OR CONNECTORS.
4. CONNECT DSP AND INTERFACE TO UNSWITCHED POWER OF SURGE SUPPRESSOR. CONNECT MIXER AMPS AND MASKING AMP TO SECOND UNSWITCHED OUTLET OF SURGE SUPPRESSOR. CONNECT BALANCE OF SOUND EQUIPMENT TO SWITCHED OUTLETS. SEE REMOTE DIAGRAM.
5. CONNECT #6 GROUND WIRE TO MIDDLE SECTION OF SOUND CABINET WITHIN 12" OF DSP VIA. GROUNDING BLOCK. CONNECT DSP GROUND TO GROUNDING BLOCK.
6. ENABLE PHANTOM POWER ON MICROPHONE INPUTS FOR THE RELIEF SOCIETY ROOM AND CHILDREN'S MEETING ROOM MIXER/AMPLIFIERS. PHANTOM POWER CHAPEL AND CULTURAL CENTER MICROPHONE INPUTS FROM MIXER ONLY. ACTIVATE "LAST ON" OPTION FOR CHAPEL AND CULTURAL CENTER MICROPHONE INPUTS.
7. SOUND SYSTEM SINGLE LINE DIAGRAM SHOWS THE CONNECTION OF THE BSS MIXER/PROCESSOR. IF THE INSTALLER SELECTS THE IVIE MIXER/PROCESSOR, CONTACT SOUND/ACOUSTICAL CONSULTANT.
8. INSTALL NEW SPEAKERS, TRANSFORMERS, GRILLES, AND TORSION SPRINGS IN ALL EXISTING SPEAKER ENCLOSURES. PROVIDE FIBERGLASS INSULATION IN ENCLOSURES IF NOT EXISTING.
9. REPLACE ALL EXISTING SOUND SYSTEM MODULES AND COVER PLATES.
10. MODIFY STANDARD DSP TEMPLATE SO OVERFLOW FROM CHAPEL TO LOUNGE AND CULTURAL CENTER ARE INDEPENDENT OF EACH OTHER.



INFRARED DOOR SENSOR WIRING DIAGRAM

NO SCALE



REMOTE CONTROL WIRING DIAGRAM

NO SCALE

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	01-07-14	RECORD DRAWINGS

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PROJECT FOR

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PROJECT NAME

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SOUND SYSTEM
UPGRADE

PROJECT ADDRESS

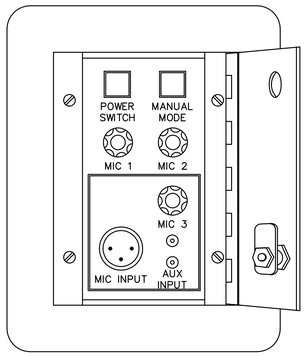
3547 E. MENAN-LORENZO HIGHWAY
MENAN, IDAHO

SHEET TITLE

SOUND SYSTEM
DETAILS, DIAGRAMS,
AND NOTES

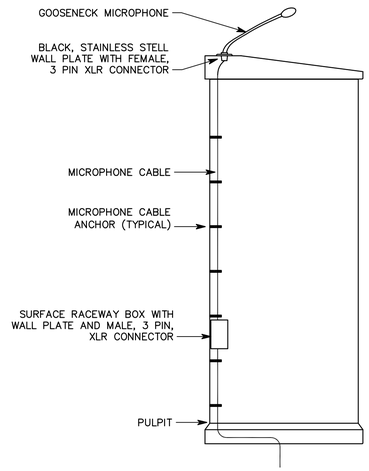
PROJECT DESIGNATION
20130380.AWA

PROPERTY NUMBER	SHEET NO.
507-2638	T–1
DEVELOPMENT NUMBER: CUSTOM	
DATE: 22 AUG 2013	



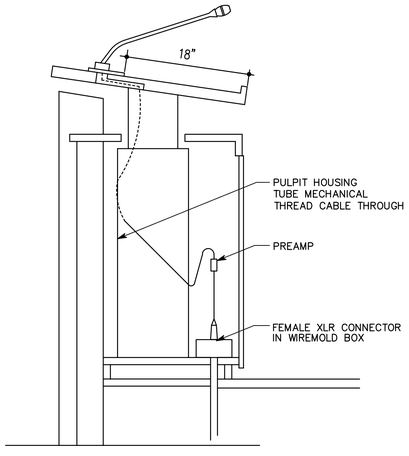
4 CULTURAL CENTER REMOTE CONTROL PANEL DETAIL

NTS



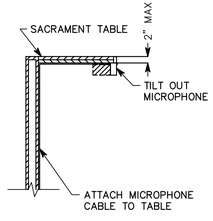
2 CHILDREN'S ROOM PULPIT DETAIL

NO SCALE



3 CHAPEL PULPIT SECTION

NO SCALE



1 SACRAMENT MICROPHONE SECTION

NO SCALE

SOUND EQUIPMENT LIST

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
	50' MICROPHONE EXTENSION CABLES WITH BLACK CONNECTORS	2	CONQUEST B84-50 WHIRLWIND MK450
	MICROPHONE, GENERAL USE	2	ELECTRO-VOICE N/D767 SHURE BETA 57A
	LAVALIER MICROPHONE	1	COUNTRYMAN ASSOCIATES B3PLDSFF03.5B
	MICROPHONE, CHAPEL PULPIT	1	AUDIO TECHNICA ES905CL PROVIDE PHANTOM POWER
	MICROPHONE, PORTABLE PULPIT	1	AUDIO TECHNICA U855QL
	15'-0" MICROPHONE EXTENSION CABLE WITH BLACK CONNECTORS	1	CONQUEST B84-15 WHIRLWIND MK415
	STAINLESS STEEL MICROPHONE INPUTS W/BLACK POWDER COAT FINISH MOUNTED TO PULPIT	1	SEE DETAIL 2/T-2
	MICROPHONE, SACRAMENT, SEE DETAIL 1/T-2	1	BSS BLU-SM IVIE IM-10
	10'-0" MICROPHONE EXTENSION CABLE W/90° MALE CONNECTOR	1	CONQUEST B84-10 WHIRLWIND MK410
	PEDESTRIAN STRIP, 8'	1	
	MULTI-IMPEDANCE BOX	1	EMTECH EJ-8
	MICROPHONE STAND, FLOOR TYPE	1	ATLAS SOUND MS20E
(M)	MICROPHONE INPUT MODULE	OFP	EMTECH MSC-M
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(MW)	MICROPHONE/AUX INPUT MODULE	OFP	EMTECH MSC-MW3
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(V)	VOLUME CONTROL MODULE	OFP	EMTECH MSC-V10, V35 SELECT APPROPRIATE MODEL FOR SPEAKER LOAD
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(SV)	SOURCE SWITCH MODULE	OFP	EMTECH MSC-S
	VOLUME CONTROL MODULE	OFP	EMTECH MSC-V35
	DOUBLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(L)	SPEAKER SELECTOR SWITCH	OFP	EMTECH MSC-L USE 'S' MODULE LABEL ON 'L'-TYPE SWITCH
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(CP)	CHAPEL CONTROL PEDESTAL PLATE	1	BSS BLU-CP IVIE RMI-CP
	ADAPTOR PLATE	1	EMTECH SPC5x7
(U)	SOUND SYSTEM OUT	OFP	EMTECH MSC-U
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(W)	LINE LEVEL INPUT MODULE	OFP	EMTECH MSC-W
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
(RU)	NETWORK/ SOUND SYSTEM OUT	OFP	EMTECH MSC-RU
	SINGLE GANG, HIGH IMPACT NYLON COVER PLATE	OFP	HUBBELL OR LEVITON
	BLANK METAL COVER PLATE	OFP	EMTECH 170-BB

SYM	DESCRIPTION	QTY	ACCEPTABLE TYPES
(CC)	CULTURAL CENTER REMOTE CONTROL PANEL	1	BSS BLU-CC IVIE RMI-CC
(IR)	INFRARED DETECTORS	OFP	BSS BLU-IR IVIE IR-3
	DOUBLE GANG, HIGH IMPACT NYLON OR PLASTIC BLANK COVER PLATE	OFP	HUBBELL OR LEVITON
	MIXER, DIGITAL SIGNAL PROCESSOR, AND POWER SUPPLY	1	BSS LONDON BLU-100 W/BLU-CIF IVIE 1280 W/ LDS POWER RELAY AND RMPC-12-45
	POWER AMPLIFIERS PA1, PA2	1	QSC CX302V CROWN CTs600
	PA3-PA5	1	QSC CX204V CROWN CTs4200
	MA1-MA2	2	ATLAS SOUND AA35 W/ RACK KIT AND PHANTOM POWER TOA BG-2035 W/ RACK KIT AND MO1S MODULE
	MA3	1	TOA BG-2035 W/ RACK KIT W/ EMTECH SMG-100 MODULE
	SECURITY COVERS FOR MA1 - MA3	A/R	MIDDLE ATLANTIC SECS-2 AND W/HTX SCREWS OR EQUIVALENT
	ETHERNET SWITCH, 16-PORT	1	
ALS	HEARING IMPAIRED SYSTEM	1	COMTEK CC-75LD
	MATCHING ISOLATION TRANSFORMERS, 600:600 OHM	A/R	PRO CO LOT 1 RDS TX-1A
	AUDIO DISTRIBUTION AMPLIFIER	A/R	RDL RUDA4D MOUNTED ON RU-RA3
TVSS	SURGE SUPPRESSOR AND SWITCHER	1	SURGEX SX1115RT LOWELL ACSP-RPC1R-1509
	POWER STRIP	A/R	6 OUTLET POWER STRIP OR EQUAL
	SPEAKER, 4" W/ TRANSFORMER	OFP	LOWELL JR410-T870 ELECTRO-VOICE 2058T ATLAS SOUND FC104T
	SPEAKER, 4" W/ TRANSFORMER	OFP	LOWELL JR410-T870 ELECTRO-VOICE 2058T ATLAS SOUND FC104T
	LOUD SPEAKER GRILLE	OFP	ATLAS SOUND T720-4BT LOWELL CN-4M
	SPEAKER, 8" W/ TRANSFORMER	OFP	ATLAS SOUND C803A-T87 ELECTRO VOICE 309-8T
	SQUARE SPEAKER GRILLE	1	ATLAS SOUND 170-8A
	SPEAKER, 8" W/ TRANSFORMER	OFP	ATLAS SOUND C803A-T87 ELECTRO VOICE 309-8T
	LOUD SPEAKER GRILLE	OFP	ATLAS SOUND 170-8A
(▲)	SPEAKER, 8" W/ TRANSFORMER	OFP	ATLAS SOUND C803A-T87 ELECTRO VOICE 309-8T
	SQUARE SPEAKER GRILLE	1	ATLAS SOUND 170-8A

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RMK = RACK MOUNT KIT

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SOUND EQUIPMENT LIST AND DETAILS

PROJECT DESIGNATION
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PROPERTY NUMBER
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DEVELOPMENT NUMBER
CUSTOM

DATE
22 AUG 2013

SHEET NO.
T-2