ORCAS ISLAND PUBLIC LIBRARY

ORCAS ISLAND PUBLIC LIBRARY EXPANSION

500 ROSE STREET
EASTSOUND, WA 98245

PROJECT NO. 547

100% DESIGN DEVELOPMENT

HKP architects

1/5/16

ABBREVIATIONS

(ABBREVIATIONS RELATE WITH OR WITHOUT PERIODS)

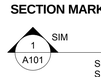
ACR	ACCESS CARD READER
A.C.T.	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADDN.	ADDITION
ADJ.	ALT. ADJUSTABLE ALTERNATE
ALUM.	ALUMINUM
APB	ADA PUSH BUTTON
∠	ANGLE
ASSM	ASSEMBLY (CONSTRUCTION)
BB	BULLETIN BOARD
BM.	BEAM
BLK.	BLOCKING
BD.	BOARD
B.O.C.	BOTTOM OF CONCRETE
B.O.S.	BOTTOM OF STEEL
B.O.T.	BUTTOM OF TRUSS
BS	BACKSPLASH
B.U. COL.	BUILT-UP COLUMN
B.U.R.	BUILT-UP ROOFING
C.B.	CATCH BASIN
CPT.	CARPET
CLG.	CEILING
CBB	CEMENTITIOUS BACKER BOARD
C.J.	CONTROL JOINT
CLO.	CLOSET
C.O.	CLEAN OUT
CTR.	CENTER
℄ OR CL.	CENTER LINE
C.T.	CERAMIC TILE
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.M.U.	CONCRETE MASONRY UNITS
CONT.	CONTINUOUS
COORD.	COORDINATE
CG	CORNER GUARD
DIA.	DIAMETER
DIM.	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DF	DRINKING FOUNTAIN
DR.	DOOR
DWG.	DRAWING
E.	EAST
ELEC.	ELECTRICAL
EL.	ELEVATION
EM. LIGHT	EMERGENCY LIGHT
EP	ELECTRIC PANEL
EQ.	EQUAL
EW	EMERGENCY EYEWASH
EWS	EMERGENCY EYEWASH/SHOWER
EX./EXST	EXISTING
E.J.	EXPANSION JOINT
FD	FLOOR DRAIN
F.A.A.	FIRE ANNUNCIATION ALARM
F.A.P.	FIRE ALARM PANEL
FH	FIRE HYDRANT
F.O.B.	FACE OF BRICK OR BLOCK
F.O.C.	FACE OF CONCRETE
F.O.S.	FACE OF STUD
FPA	FALL PROTECTION ANCHOR
FIN.	FINISH
F.V.	FIELD VERIFY

FP	FILLER PIECE
FA	FIRE ALARM
FB	FIRE BLANKET
FE	FIRE EXTINGUISHER
FHS	FIRE HOSE STROBE
F. PULL	FIRE PULL
F. STROBE	FIRE STROBE
FS	FLOOR SLEEVE
FT.	FOOT
FTG.	FOOTING
FRMG.	FRAMING
F.O.I.C.	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
F.O.I.O.	FURNISHED BY OWNER, INSTALLED BY OWNER
GALV.	GALVANIZED
GA.	GAUGE
G.A.	GYPSUM ASSOCIATION
GL	GLAZING
GB	GRAB BAR
GYP.	GYPSUM
GWB	GYPSUM WALL BOARD
H.C.	HANDICAPPED
HDW.	HARDWARE
HDWD	HARDWOOD
HT.	HEIGHT
HB	HOSE BIB
H.M.	HOLLOW METAL
INS.	INSULATION
I.D.	INSIDE DIAMETER
IBC.	INTERNATIONAL BUILDING CODE
JT.	JOINT
LAV.	LAVATORY
LF	LIGHT FIXTURE
MFD.	MANUFACTURED
MAS.	MASONRY
M.H.	MAN HOLE
M.H.O.	MAGNETIC HOLD OPEN
M.O.	MASONRY OPENING
M.S.	MACHINE SCREW
MANUF.	MANUFACTERED
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MDO	MEDIUM DENSITY OVERLAY
MEMB.	MEMBRANE
ML	MARRIAGE LINE
MTL.	METAL
MIN.	MINIMUM
MR	MOISTURE RESISTANT
MULL.	MULLION
NOM.	NOMINAL
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.P.W.	NOMINAL PANEL WIDTH
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPG.	OPENING
OPP.	OPPOSITE
O.D.	OUTSIDE DIAMETER
O.W.S.J.	OPEN WEB STEEL JOIST
P/D	POWER/DATA PORTS

P/PTD	PAINT/PAINTED
P.LAM	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PS	PROJECTION SCREEN
PTD	PAPER TOWEL DISPENSE
RRL	RAIN LEADER
REINF.	REINFORCING
REBAR.	REINFORCING BAR
RELOC.	RELOCATE
RD	ROOF DRAIN
RM.	ROOM
R.O.	ROUGH OPENING
RUB	RUBBER
RB	RUBBER BASE
RV	ROOF VENT
RRV	ROOFING RELIEF VENT
RWL	RAIN WATER LEADER
S.	SOUTH
SB	SPLASH BLOCK
SD	SOAP DISPENSER
S.F.	SQUARE FOOT(FEET)
SHB	SHEET METAL BACKER
SH.BR.	SHELF BRACKET
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SNR	SANITARY NAPKIN RECEPTACLE
SPEC.	SPECIFICATIONS
STN.	STAIN
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
SUSP.	SUSPENDED
TS	TACKABLE SURFACE
T.D.	TRENCH DRAIN
TW	TACKABLE WALL
THSD	THRESHOLD
TP	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
T.O.S.	TOP OF STEEL
T.O.C.	TOP OF CONCRETE
T.O.T.	TOP OF TRUSS
T.S.GL.	TEMPERED SHEET GLASS
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.B.	VAPOR BARRIER
VER.	VERIFY
V.I.F.	VERIFY IN FIELD
V.C.T.	VINYL COMPOSITION TILE
VP	VENEER PLASTER
VTR	VENT THRU ROOF
W.O.M.	WALK OFF MAT
WT.	WEIGHT
W	WEST
WB	WHITE BOARD
W.CH.	WIRE CHASE
W/	WITH
W/O	WITHOUT
WD.	WOOD
W.R.B.	WEATHER RESISTIVE BARRIER
W.W.M.	WELDED WIRE MESH
YD.	YARD

GRAPHIC SYMBOLS

SECTION MARK



SECTION 1 IS NOTED AS DRAWING "1" ON SHEET "A101"

DETAIL TAG

DETAIL IS NOTED AS DRAWING "1" ON SHEET "A101"

INTERIOR ELEVATION TAG

THIS INTERIOR ELEVATION IS NOTED AS DRAWING "1" ON SHEET "A101"

WALL TYPE SYMBOL - INTERIOR

ATYPICAL STUD CAVITY WIDTH

TYPICAL OR SIMILAR

WALL TYPE

WALL TYPE SYMBOL - EXTERIOR

ATYPICAL STUD CAVITY WIDTH

TYPICAL OR SIMILAR

WALL TYPE

ELEVATION TARGET

SLOPE INDICATOR

DOOR TAG

DOOR IS NUMBER 213 (SEE SCHEDULE)
NON-RATED

DOOR IS NUMBER 213 (SEE SCHEDULE)
WITH AN OPENING RATING OF 20/45/90 MINUTES

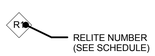
WINDOW TAG

WINDOW NUMBER
(SEE SCHEDULE)

SKYLIGHT TAG

SKYLIGHT NUMBER
(SEE SCHEDULE)

RELITE TAG

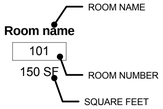


RELITE NUMBER
(SEE SCHEDULE)

ROOM TAG - FLOOR PLAN

ROOM NAME

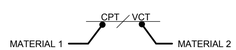
Room name



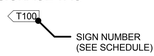
ROOM NUMBER

SQUARE FEET

FLOOR MATERIAL CHANGE SYMBOL



SIGNAGE TAG



SIGN NUMBER
(SEE SCHEDULE)

PROJECTION SCREEN

PS

WHITE BOARD

WB

BULLETIN BOARD / TACKABLE SURFACE

BB TS

VIDEO PLASMA LOCATION

VPL

SINKS (SIMILAR)

DRINKING FOUNTAIN

ADA PUSH BUTTON

APB APB

FIRE EXTINGUISHER - WALL CABINET

MATERIAL LEGEND

- WOOD, ROUGH
- WOOD, FINISH
- PLYWOOD
- GWB
- CONCRETE
- EARTH FILL
- GRAVEL
- STEEL
- INSULATION, BATT OR LOOSE FILL
- INSULATION, RIGID
- CERAMIC/QUARRY TILE

GENERAL NOTES

1. EXISTING LIBRARY IS TO REMAIN OCCUPIED DURING CONSTRUCTION.
2. CONTRACTOR RESPONSIBLE FOR MAINTAINING SITE SAFETY AND SECURITY AND EXITING FROM EXISTIN GLIBRARY AT ALL TIMES.

ALTERNATES

1. ACOUSTICAL RETROFIT IN EXISTING MEETING ROOM.
2. SOUTH VESTIBULE
3. STREET IMPROVEMENTS ON ROSE STREET
4. STAIR/TRAIL TO LIBRARY PARK

PROJECT TEAM

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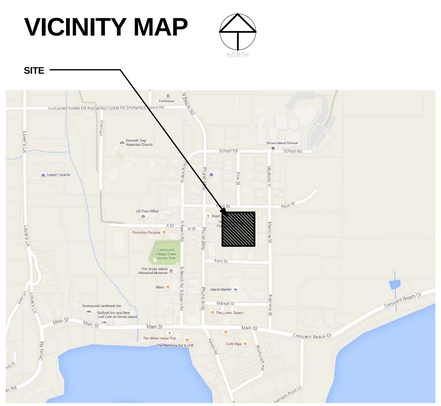

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Sheet Contents:
DRAWING INDEX, TEAM, LEGEND, SYMBOLS & ABBREVIATIONS

Revisions:

Number	Description	Date

Drawn By: CB

Checked: JB

Date: 11/30/15

Job No.: 544

Sheet No.:

A0.1

ZONING & BUILDING CODE INFORMATION

APPLICABLE CODES

SAN JUAN COUNTY ENFORCES THE FOLLOWING INTERNATIONAL CODES, WASHINGTON STATE AMENDMENTS, AND WASHINGTON ADMINISTRATIVE CODE (WAC):

2012 INTERNATIONAL BUILDING CODE (IBC) AND AMENDMENTS
2012 INTERNATIONAL MECHANICAL CODE (IMC) AND AMENDMENTS
2012 INTERNATIONAL FUEL GAS CODE (IFGC) AND AMENDMENTS
2012 INTERNATIONAL FIRE CODE (IFC) AND AMENDMENTS
2012 UNIFORM PLUMBING CODE (UPC) AND AMENDMENTS
2012 NATIONAL ELECTRICAL CODE (NEC) AND AMENDMENTS
2012 WASHINGTON STATE ENERGY CODE (WSEC)
2012 WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE (VIAQ)
ICC/ANSI A117.1-2009

PROJECT DESCRIPTION

THE PROPOSED PROJECT IS A SINGLE STORY ADDITION TO THE EXISTING LIBRARY. THE ADDITION WILL INCLUDE A READING ROOM, CHILDREN'S AREA, YOUNG ADULT AREA, COMMUNITY MEETING ROOM AND SEVERAL SMALL GROUP MEETING ROOMS. THERE WILL BE A FIRE BARRIER TO SEPARATE THE EXISTING BUILDING FROM THE NEW ADDITION INTO TWO SEPARATE FIRE ZONES.

PLANNING CRITERIA

ZONE: EASTSOUND SUBAREA PLAN
ZONING DESIGNATION: VILLAGE COMMERCIAL
USE: INSTITUTIONAL, LIBRARY
SETBACKS: NOT LESS THAN 30' FROM PUBLIC RIGHT OF WAY
REAR AND SIDE YARDS: NOT LESS THAN 5'
BUILDING HEIGHT: 32' ABOVE AVERAGE EXISTING GRADE
REQUIRED PARKING: 1/300 SF PROGRAM AREA = 34 STALLS
PARKING CALCULATION
PROGRAM AREA = 5,305 (EXIST.) + 4,616 (PROP.) = 9,921
REQUIRED PARKING = 9,921/300 = 33.07 STALLS
EXISTING PARKING 33 + 2 (ADA) = 35 TOTAL
ACCESSIBLE STALL REQUIRED 2% (1 REQUIRED) - EXISTING

OCCUPANCY CLASSIFICATION

A-3, LIBRARY

OCCUPANCY LOAD

EXISTING	115 PERSONS
ADDITION	168 PERSONS
TOTAL	283 PERSONS

CONSTRUCTION TYPE

EXISTING	TYPE V-B UNSPRINKLERED	TABLE 601
ADDITION	TYPE V-B UNSPRINKLERED	

PROPOSED BUILDING AREAS

EXISTING GROSS BUILDING AREA AS DEFINED BY THE IBC

FIRST FLOOR	6,883 SF
TOTAL	6,883 SF

PROPOSED ADDITION GROSS BUILDING AREA AS DEFINED BY THE IBC

ADDITION	5,907 SF
TOTAL GROSS BUILDING AREA	**12,790 SF**

BUILDING FOOTPRINTS

EXISTING	6,883 SF
PROPOSED EXPANSION	5,907 SF

ALLOWABLE FLOOR AREA

ALLOWABLE FLOOR AREA - 6,000 SF PER FLOOR		TABLE 503
ALLOWABLE AREA INCREASE FRONTAGE INCREASE = (214/323)-0.25) = 41%		506.2
TOTAL ALLOWABLE BUILDING EXPANSION	8,460 SF	

ALLOWABLE BUILDING HEIGHT

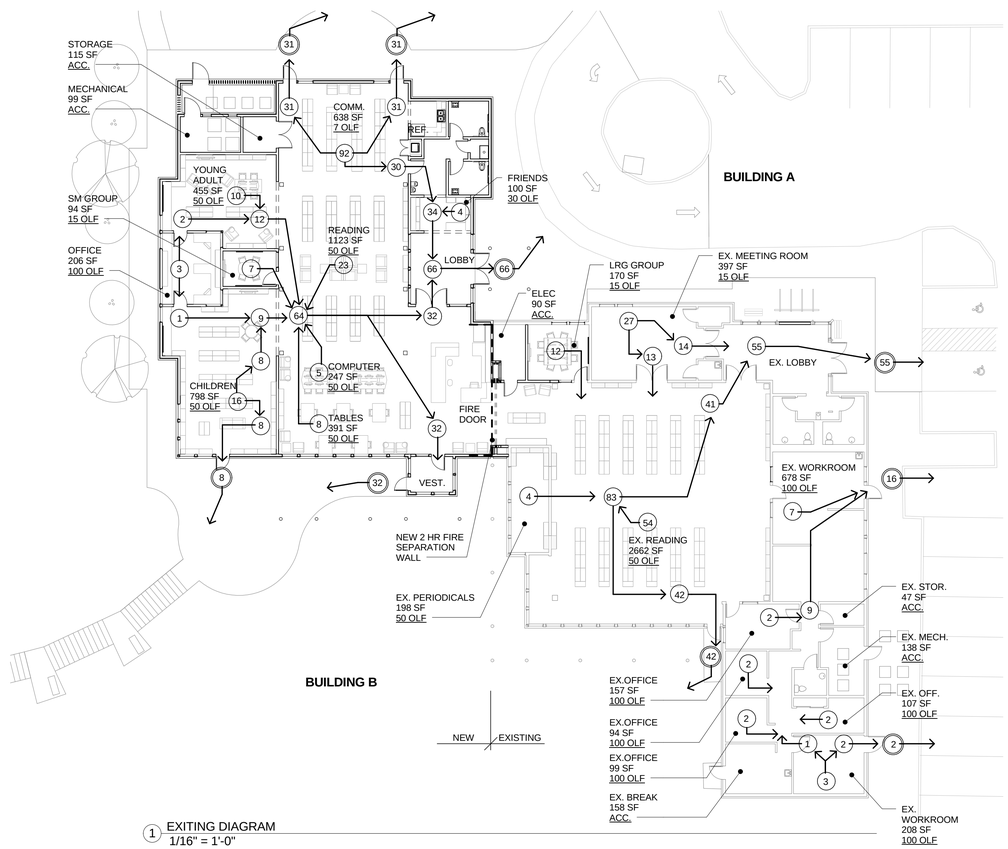
MAXIMUM HEIGHT 40' (SUPERCEDED BY EASTSOUND SUBAREA PLAN, WHICH IS 32')	TABLE 503
ACTUAL HEIGHT = X'	

UTILITIES

FIRE DISTRICT:	ORCAS FIRE AND RESCUE
WATER DISTRICT:	EASTSOUND SEWER & WATER DISTRICT; EASTSOUND WATER USERS ASSOCIATION
DRAINAGE DISTRICT:	SAN JUAN COUNTY COMPREHENSIVE PLAN
NATURAL GAS:	N/A
ELECTRICAL:	ORCAS POWER & LIGHT (OPALCO)
TELEPHONE:	
COMMUNICATION:	

FIRE-RESISTIVE MATERIALS AND CONSTRUCTION

MAXIMUM FIRE AREA WITHOUT SPRINKLERS = 12,000 SF	903.2.1.3
FIRE BARRIER BETWEEN EXISTING BUILDING AND ADDITION 2 HOUR FIRE RATING REQUIRED	TABLE 707.3.10



1 EXITING DIAGRAM
1/16" = 1'-0"

EXISTING

EXISTING TOTAL ROOM AREA

NAME	NUMBER	AREA
PERIODICAL	01	198 SF
CHILDREN	02	447 SF
MEETING	03	397 SF
STOR.	04	30 SF
KIT.	05	23 SF
LOBBY	06	408 SF
TOILET	07	76 SF
TOILET	08	75 SF
WORKROOM	09	678 SF
MECH.	10	138 SF
TOILET	11	42 SF
HALL	12	180 SF
OFFICE	13	94 SF
OFFICE	14	157 SF
READING ROOM	15	2662 SF
STOR.	16	47 SF
OFFICE	17	99 SF
STAFF	18	158 SF
STOR.	19	208 SF
OFFICE	20	107 SF
EXISTING TOTAL NET SF		6223 SF

EXISTING AREA SCHEDULE (GROSS BUILDING)

Area Type	Area
Gross Building Area	6865 SF

ADDITION

ADDITION TOTAL ROOM AREA

Name	Number	Area
COMMUNITY ROOM	19	638 SF
SM GROUP	17	94 SF
YOUNG ADULT	18	455 SF
TOILET	23	71 SF
TOILET	24	67 SF
VEST.	25	75 SF
STORAGE	26	59 SF
MECH.	27	107 SF
CIRC. DESK	29	602 SF
LOBBY	30	214 SF
FRIENDS	32	100 SF
COMPUTER AREA	33	247 SF
NEW WORK TABLES	36	391 SF
OFFICE	37	206 SF
LRG GROUP	40	170 SF
CUST.	42	18 SF
KIT.	43	63 SF
CHILDRENS ROOM	45	798 SF
READING ROOM	48	1123 SF
ELEC.	50	90 SF
EXISTING QUIET READING	51	198 SF
ADDITION TOTAL NET SF		5785 SF

ADDITION AREA SCHEDULE (GROSS BUILDING)

Name	Area
Area	5907 SF

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CODE INFO AND DIAGRAMS

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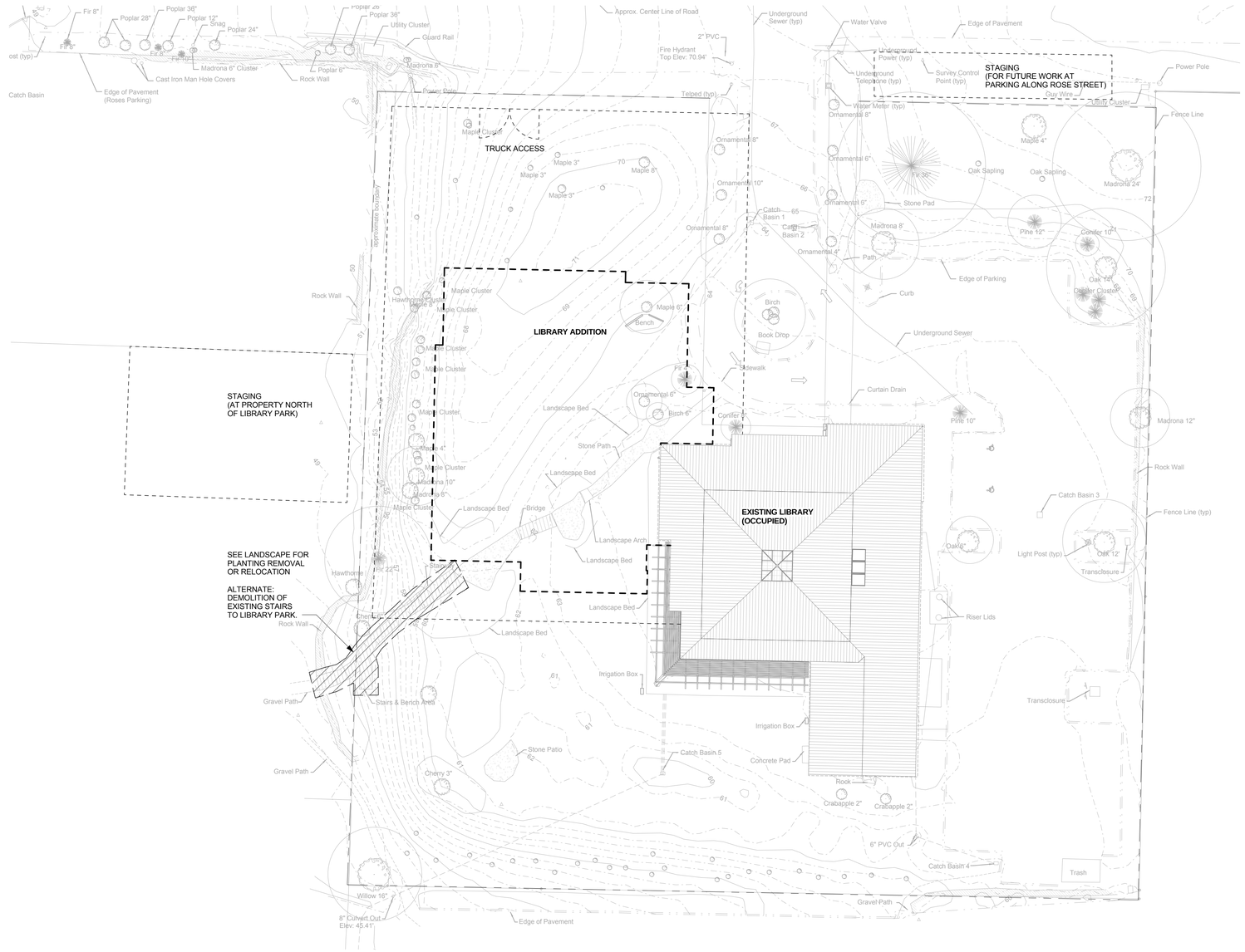
A0.2



1 EXISTING SITE PLAN - DEMOLITION
1" = 20'-0"

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ORCAS ISLAND PUBLIC LIBRARY
EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
EXISTING SITE PLAN - DEMOLITION & STAGING

Revisions:

Number	Description	Date

Drawn By: CB

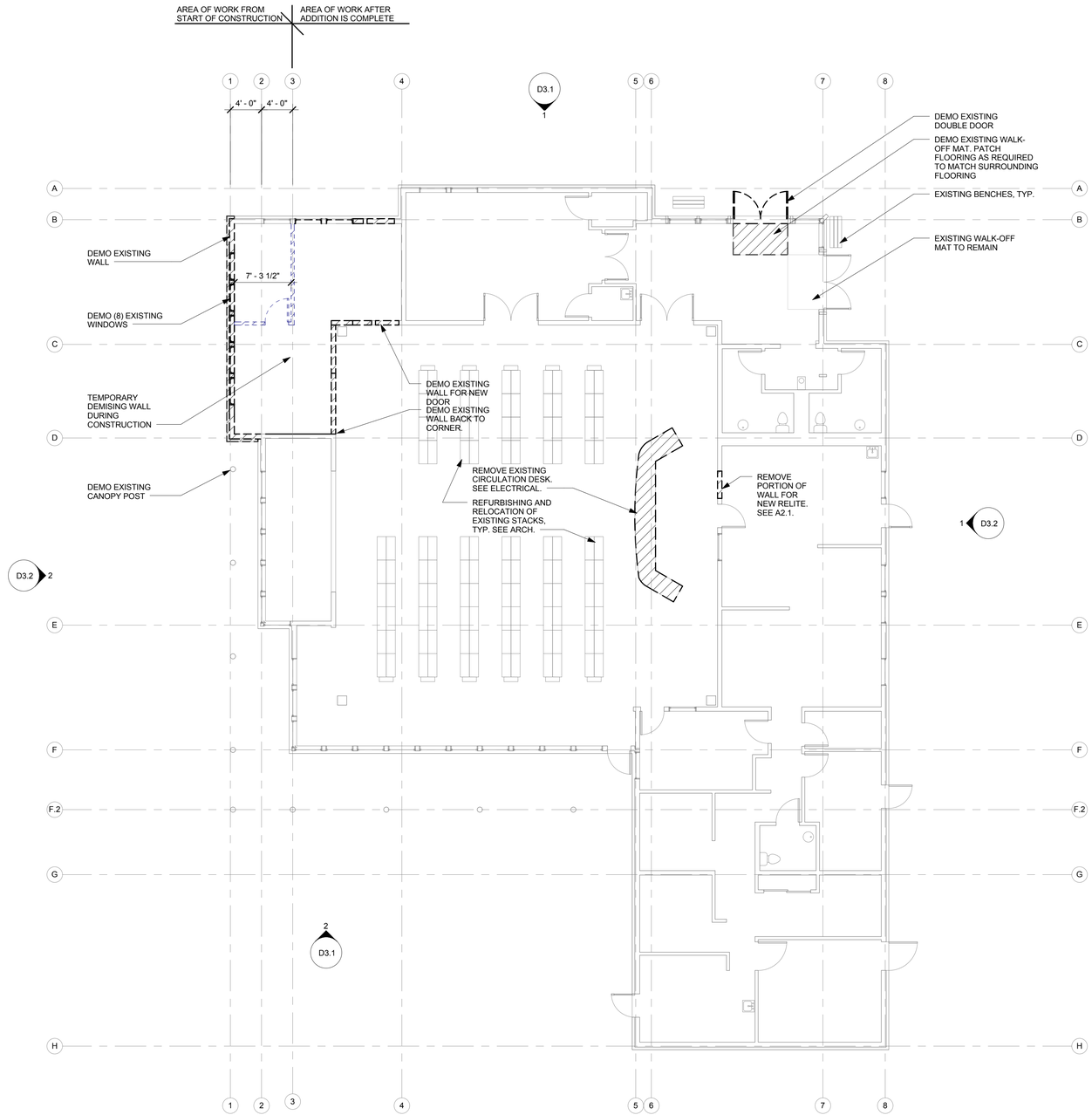
Checked: JB

Date: 12/29/15

Job No.: 544

Sheet No.:

AD1.10



NOTES:
1. SEE LANDSCAPE FOR DEMO AND PROTECTION OF EXISTING TREES AND PLANTSINGS.
2. SEE CIVIL FOR DEMO OF SITE UTILITIES AND INFRASTRUCTURE.
3. SEE ELECTRICAL AND MECHANICAL FOR DEMO OF ELECTRICAL NAD MECHANICAL SYSTEMS.

1 EXISTING FLOOR PLAN - DEMOLITION
1/8" = 1'-0"

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Sheet Contents:
EXISTING FLOOR PLAN - DEMOLITION

Revisions:

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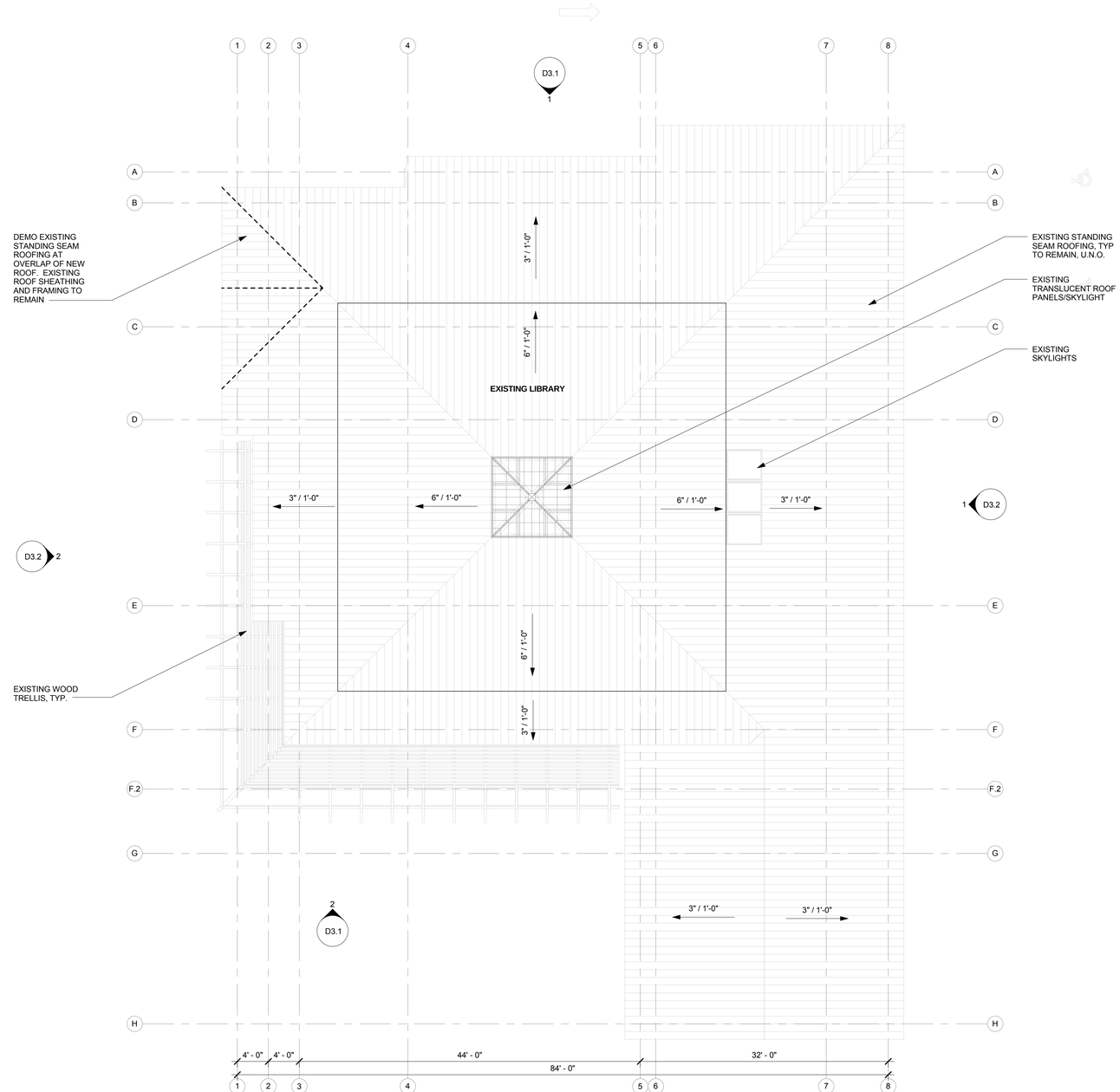
Checked: JB

Date: 11/30/15

Job No.: 544

Sheet No.:

D2.1



1 EXISTING ROOF PLAN - DEMOLITION
1/8" = 1'-0"

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Sheet Contents:
EXISTING ROOF PLAN - DEMOLITION

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Number	Description	Date

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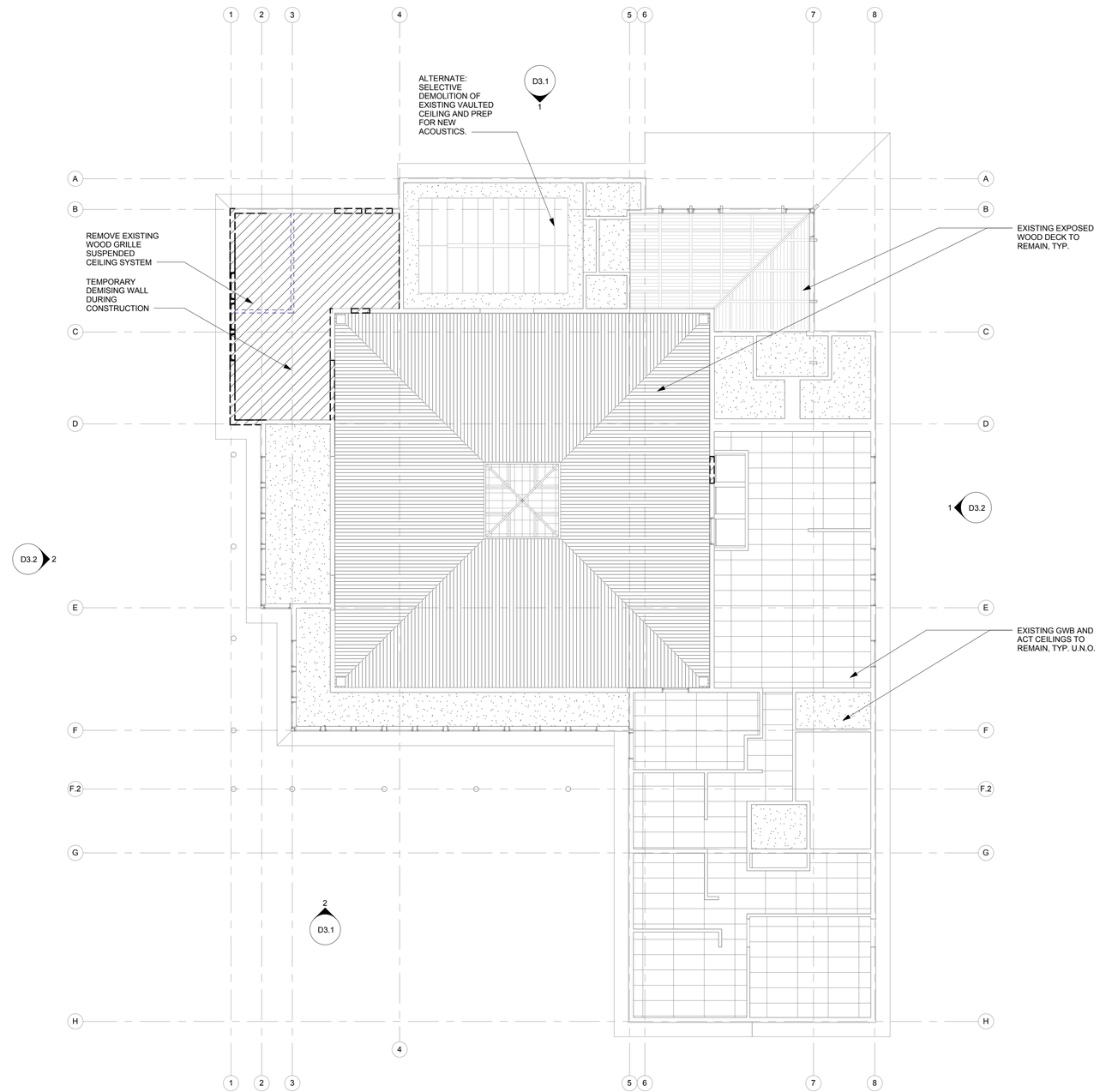
Sheet No.:

D2.2



1 EXISTING REFLECTED CEILING PLAN - DEMOLITION
1/8" = 1'-0"

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Sheet Contents:
REFLECTED CEILING PLAN - DEMOLITION

Revisions:

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Date: 12/28/15

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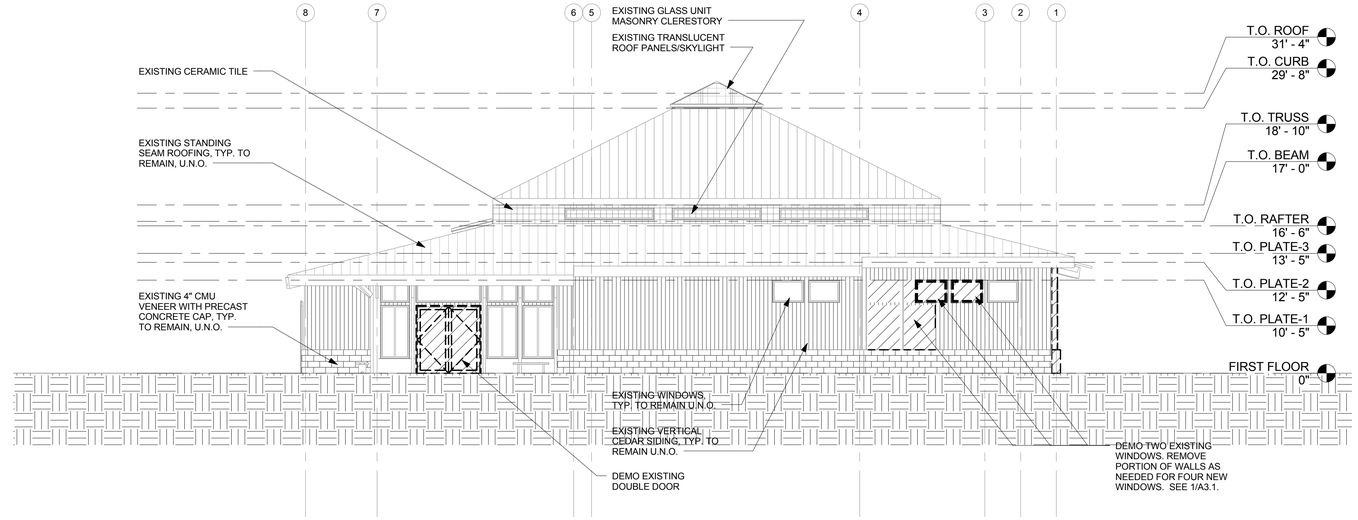
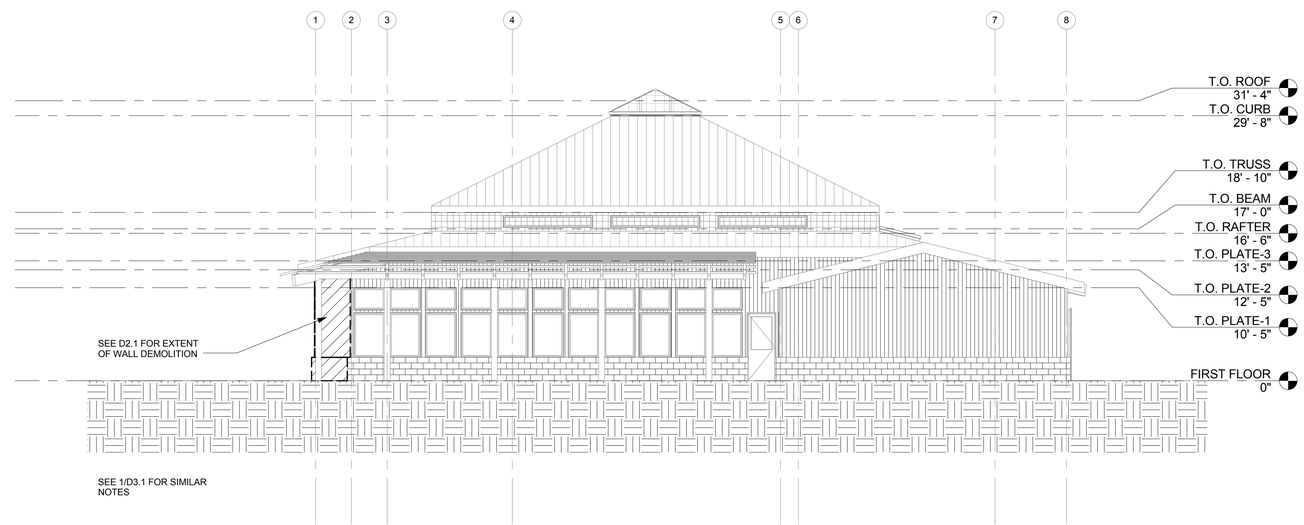
Sheet No.:

D2.3



1 EXISTING NORTH ELEVATION - DEMOLITION
1/8" = 1'-0"



2 EXISTING SOUTH ELEVATION - DEMOLITION
1/8" = 1'-0"

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Project Title:
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Sheet Contents:
EXISTING BUILDING ELEVATIONS - DEMOLITION

Revisions:

Number	Description	Date

Drawn By: CB

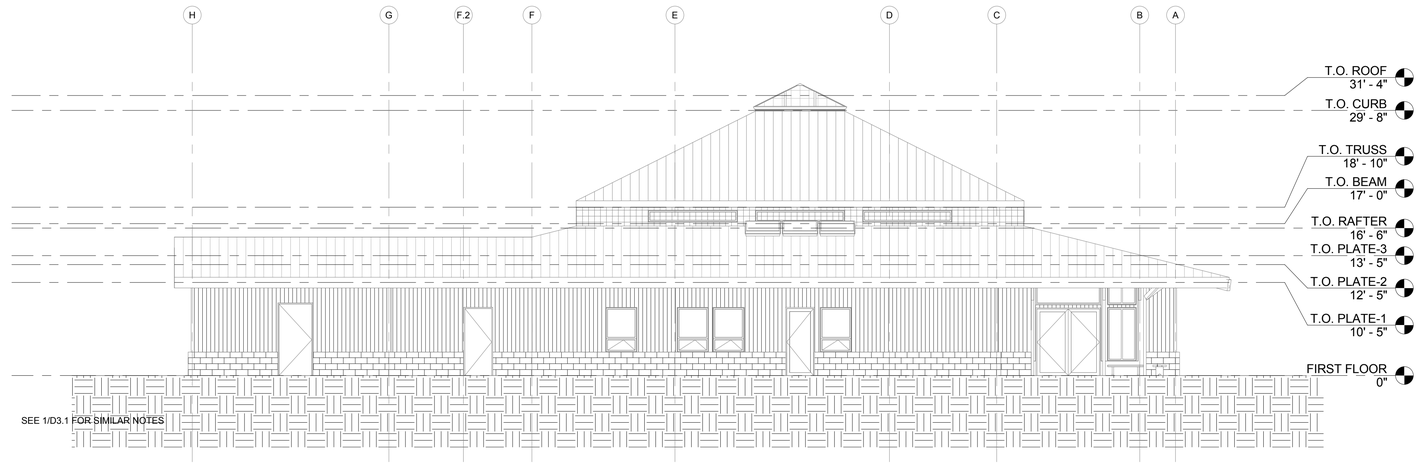
Checked: JB

Date: 12/04/15

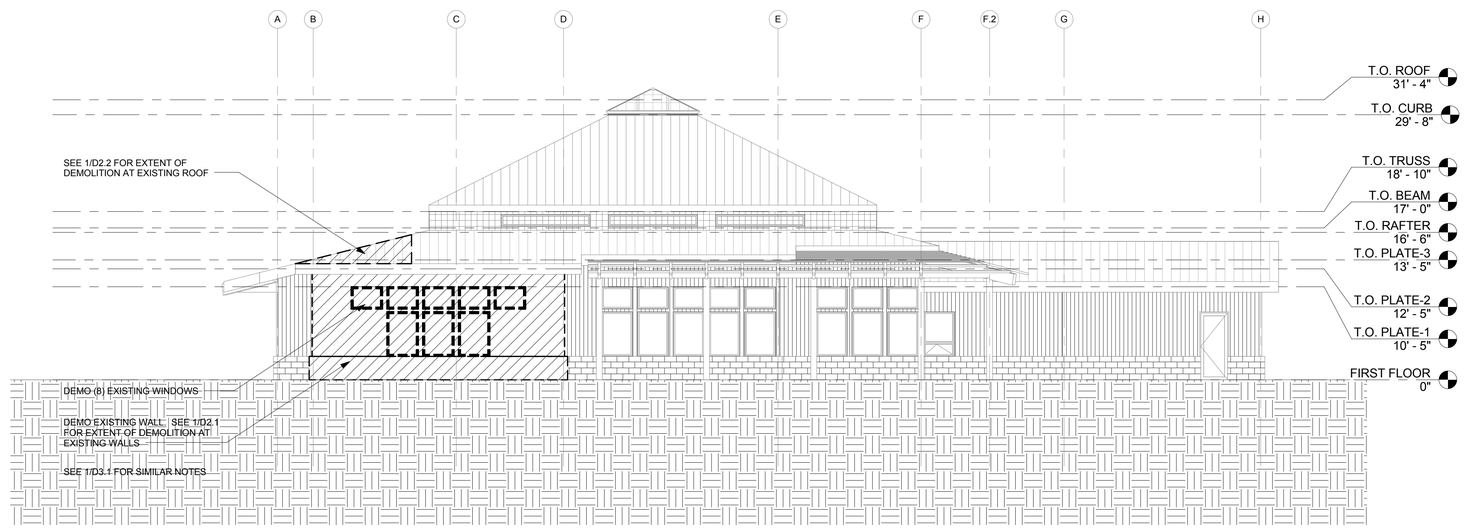
Job No.: 544

Sheet No.:

D3.1



1 EXISTING EAST ELEVATION - DEMOLITION
1/8" = 1'-0"



2 EXISTING WEST ELEVATION - DEMOLITION
1/8" = 1'-0"

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EXISTING BUILDING ELEVATIONS - DEMOLITION

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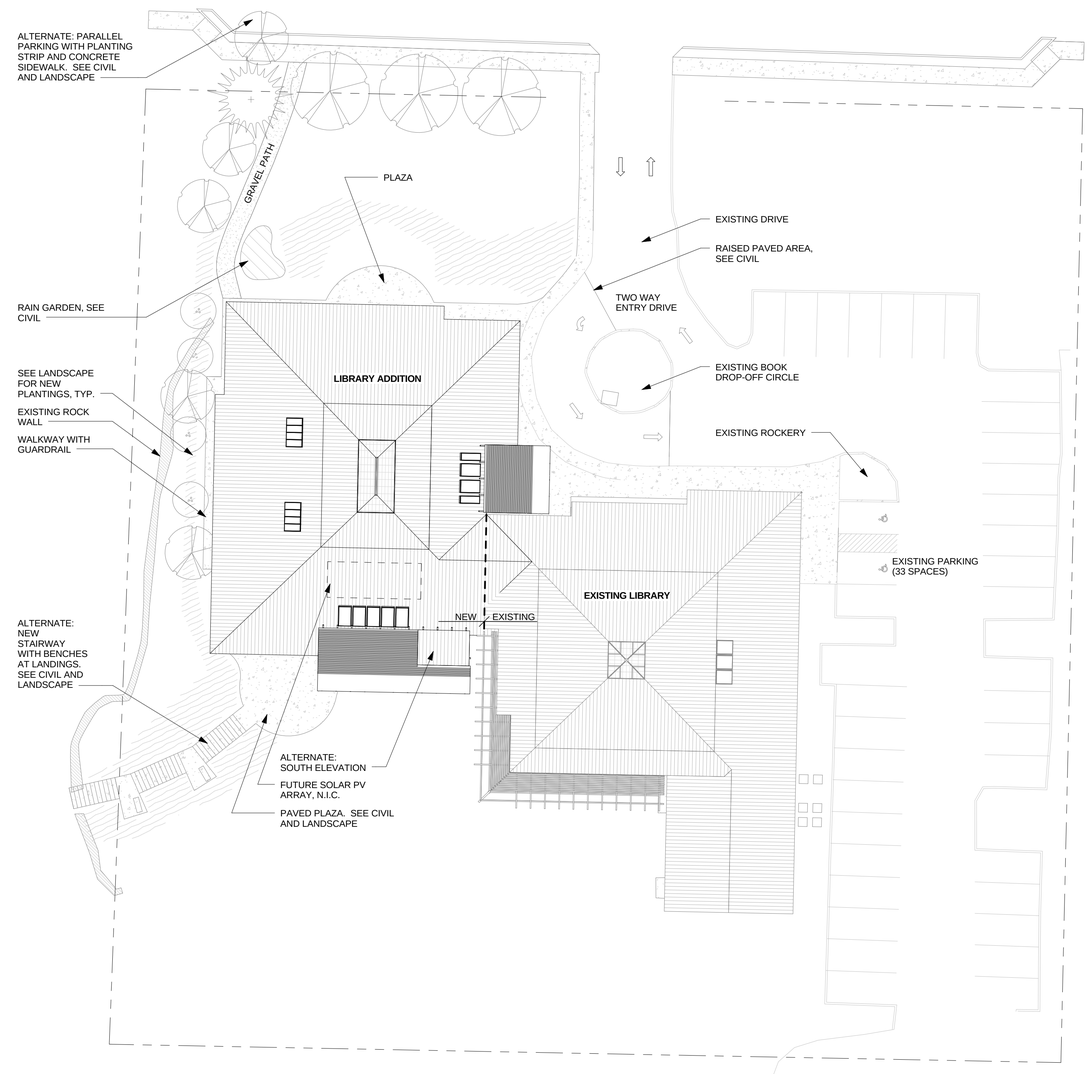
Job No.: 544

Sheet No.:

D3.2



1 SITE PLAN
1" = 20'-0"

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500 ROSE STREET
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Sheet Contents:
SITE PLAN

Revisions:

Number	Description	Date

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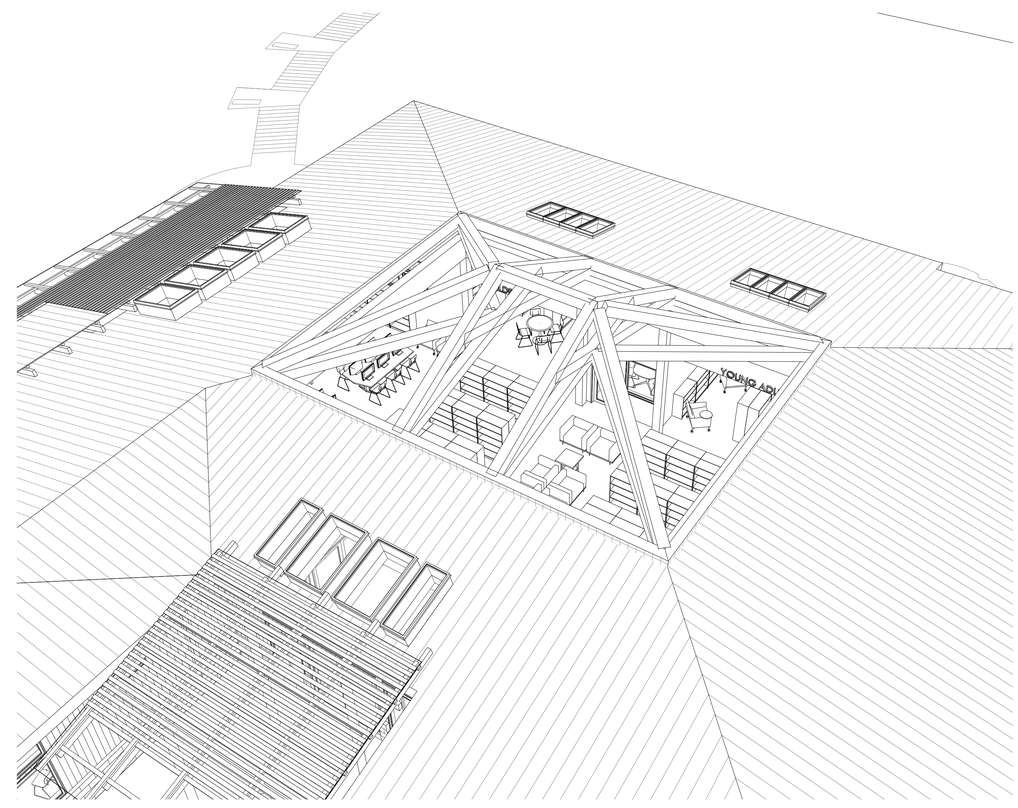
Job No.: 544

Sheet No.: A1.1

1 EXTERIOR - ROSE STREET APPROACH

2 EXTERIOR - PARKING LOT APPROACH

3 EXTERIOR - LIBRARY PARK APPROACH



4 EXTERIOR - TRUSS VIEW

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Sheet Contents:
EXTERIOR
PERSPECTIVES

Revisions:

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Date: 12/08/15

Job No.:
544

Sheet No.:
A1.2

1 INTERIOR - ENTRY LOBBY

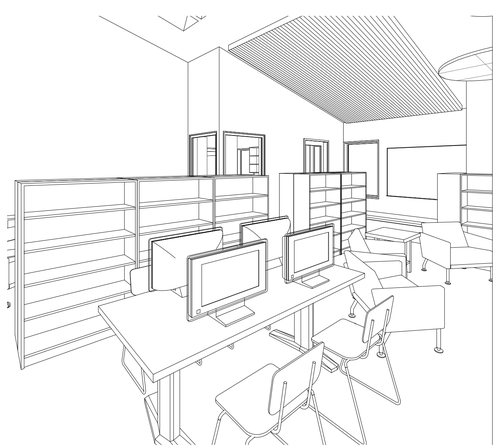
2 INTERIOR - CIRCULATION DESK

3 INTERIOR - WORK TABLES

4 INTERIOR - NEW READING ROOM

5 INTERIOR - NEW READING ROOM SOUTH

6 INTERIOR - CHILDREN'S



7 INTERIOR - YOUNG ADULT

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Sheet Contents:
INTERIOR PERSPECTIVES

Revisions:

Number	Description	Date

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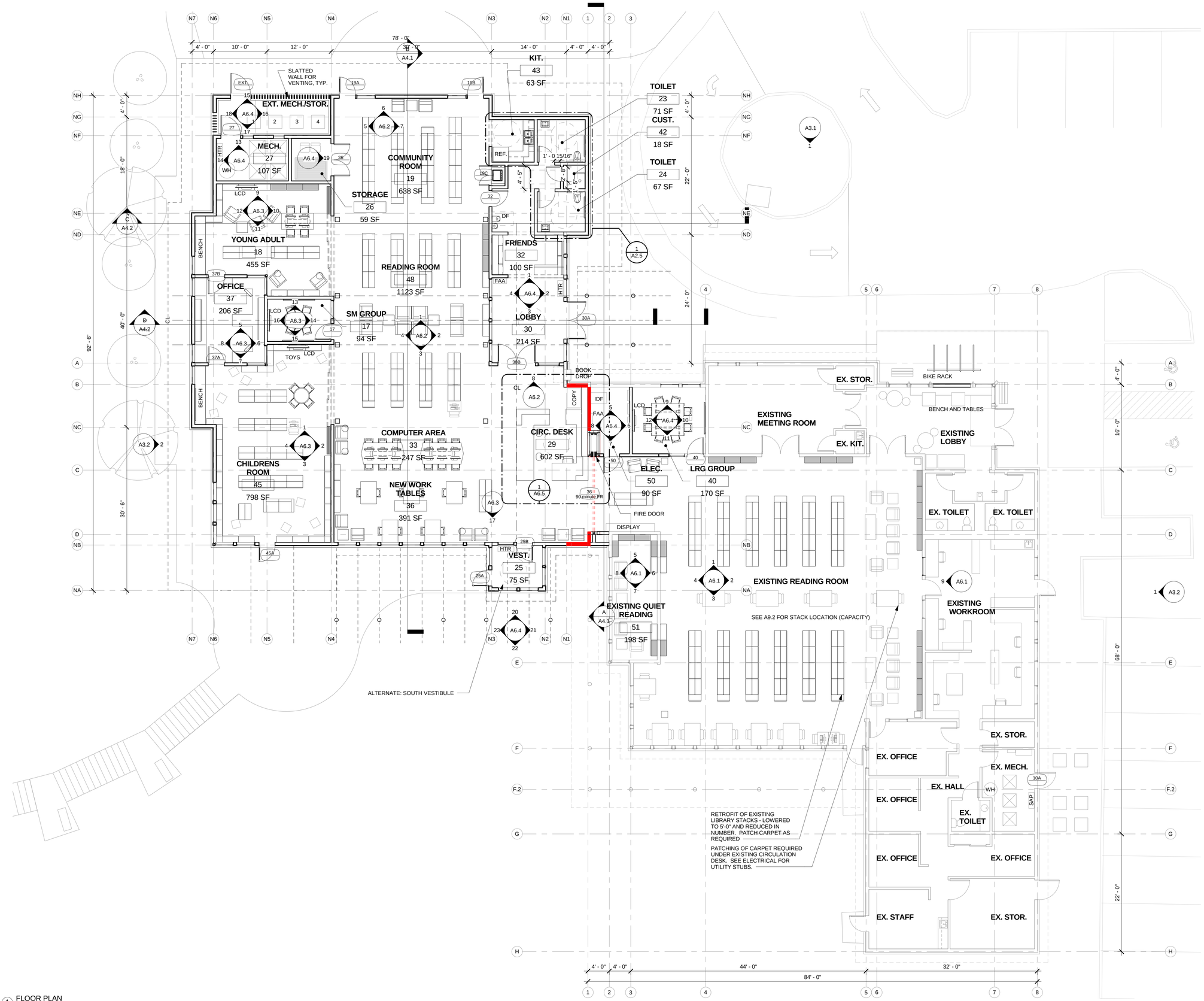
Checked: JB

Date: 12/08/15

Job No.: 544

Sheet No.:

A1.3



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

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Sheet Contents:
FLOOR PLAN

Revisions:

Number	Description	Date

Drawn By: CB

Checked: JB

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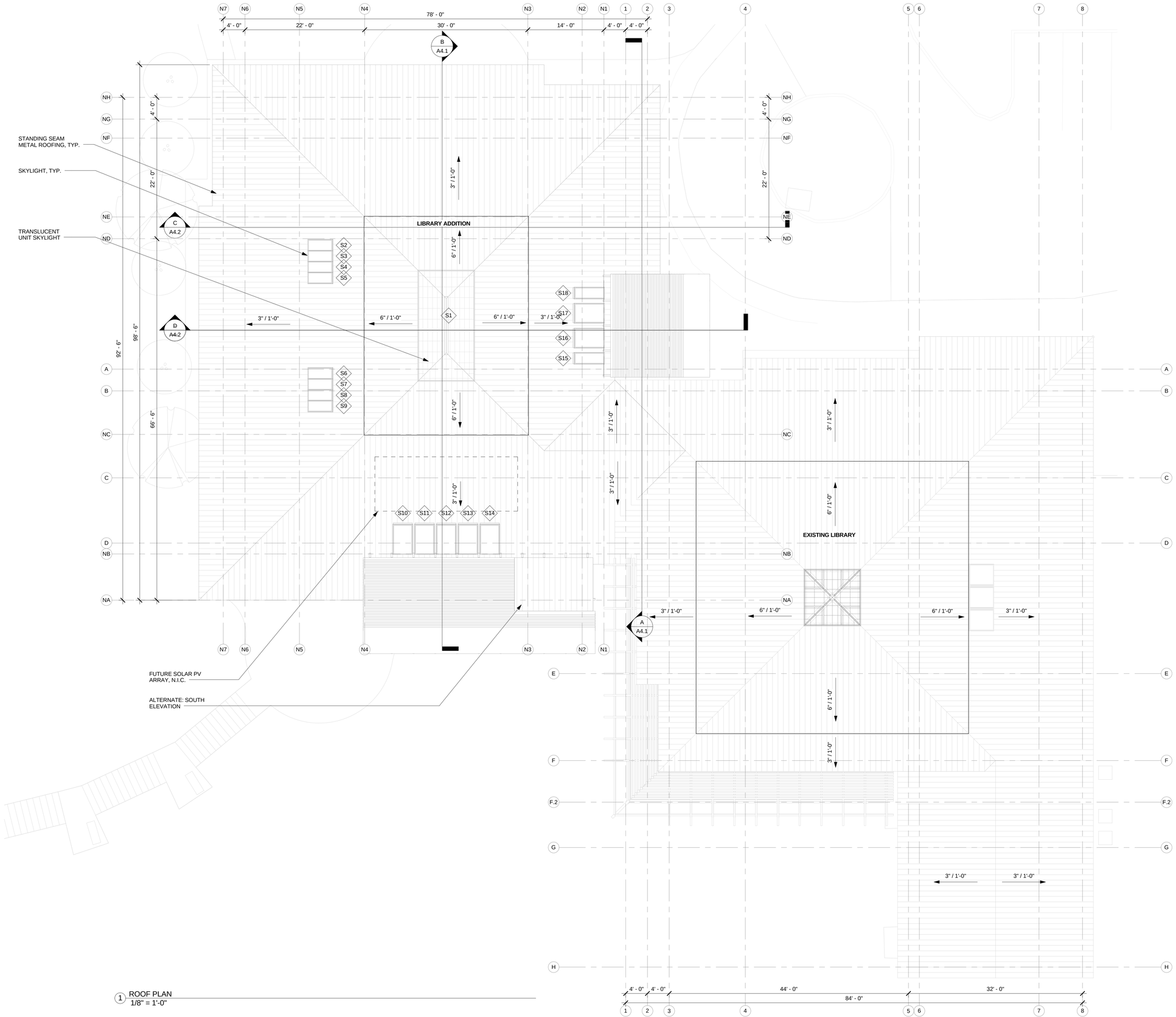
Job No.: 544

Sheet No.: A2.1



1 ROOF PLAN
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Sheet Contents:
ROOF PLAN

Revisions:

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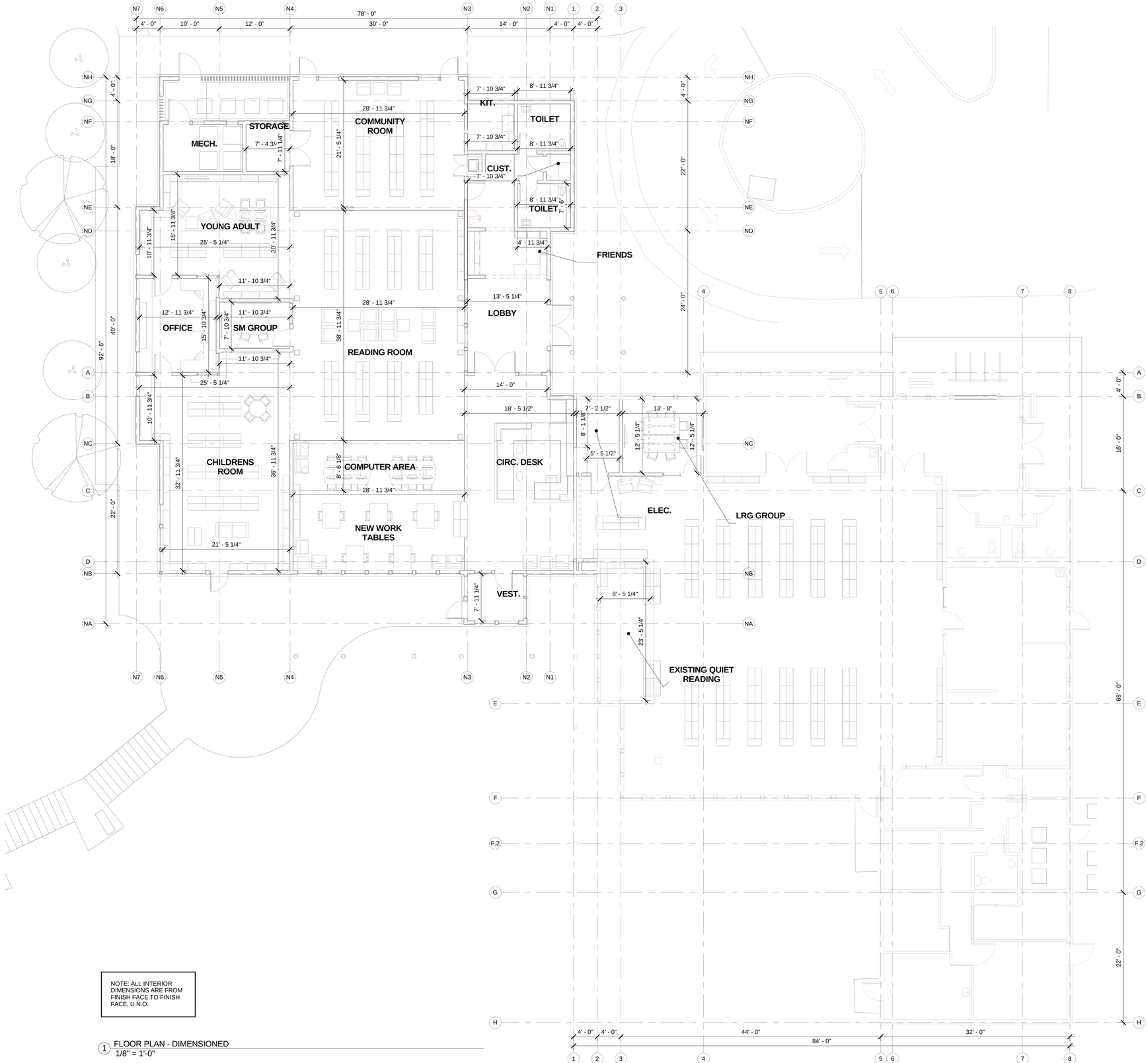
Sheet No.:

A2.2



NOTE: ALL INTERIOR DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE, U.N.O.

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

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Sheet Contents:
FLOOR PLAN - DIMENSIONS

Revisions:

Number	Description	Date

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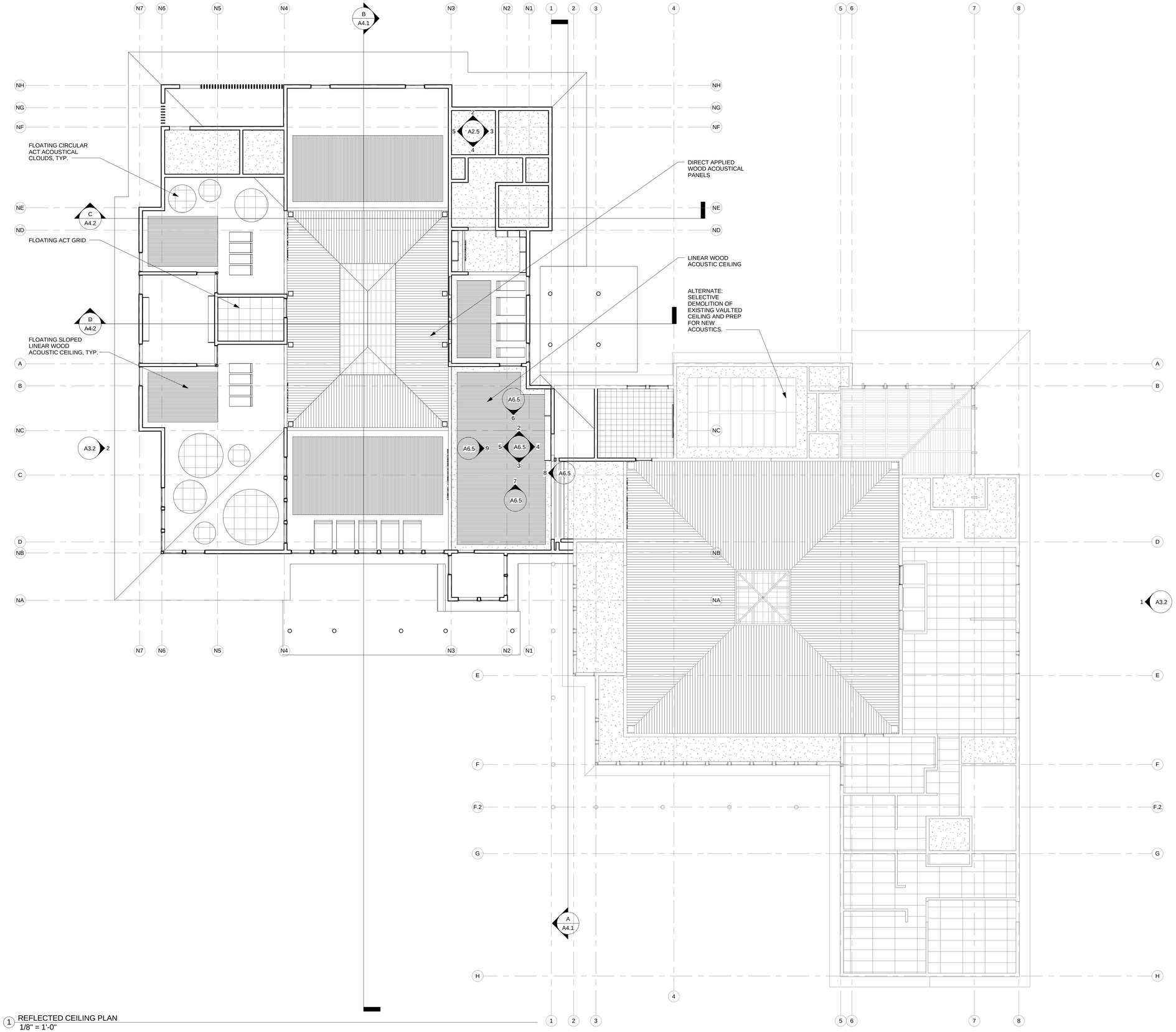
Date: 12/02/15

Job No.: 544

Sheet No.: A2.3



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

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Sheet Contents:
REFLECTED CEILING PLAN

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Checked: Checker

Date: 12/28/15

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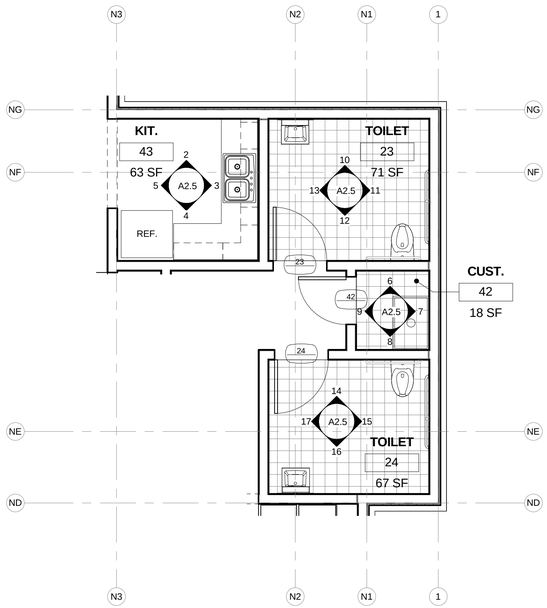
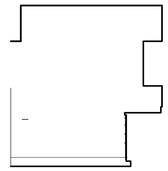
Sheet No.:

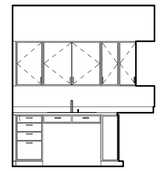
A2.4



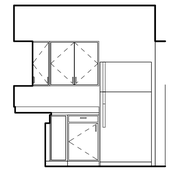
1 ENLARGED PLAN - RESTROOMS
1/4" = 1'-0"



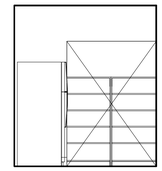
2 KITCHEN 43 - NORTH
1/4" = 1'-0"



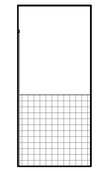
3 KITCHEN 43 - EAST
1/4" = 1'-0"



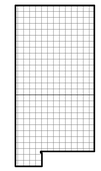
4 KITCHEN 43 - SOUTH
1/4" = 1'-0"



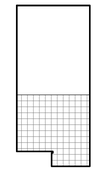
5 KITCHEN 43 - WEST
1/4" = 1'-0"



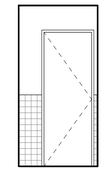
6 CUST. 42 - NORTH
1/4" = 1'-0"



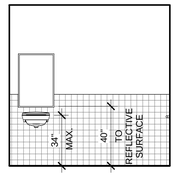
7 CUST. 42 - EAST
1/4" = 1'-0"



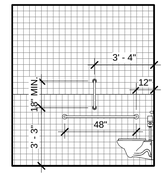
8 CUST. 42 - SOUTH
1/4" = 1'-0"



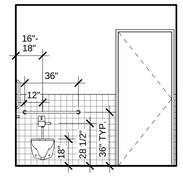
9 CUST. 42 - WEST
1/4" = 1'-0"



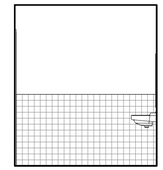
10 TOILET 23 - NORTH
1/4" = 1'-0"



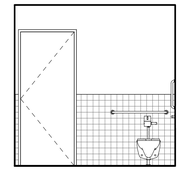
11 TOILET 23 - EAST
1/4" = 1'-0"



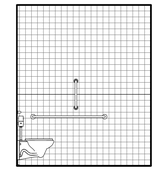
12 TOILET 23 - SOUTH
1/4" = 1'-0"



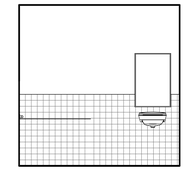
13 TOILET 23 - WEST
1/4" = 1'-0"



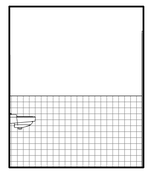
14 TOILET 24 - NORTH
1/4" = 1'-0"



15 TOILET 24 - EAST
1/4" = 1'-0"



16 TOILET 24 - SOUTH
1/4" = 1'-0"



17 TOILET 24 - WEST
1/4" = 1'-0"

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Sheet Contents:
ENLARGED FLOOR PLANS
AND INTERIOR
ELEVATIONS

Revisions:

Number	Description	Date

Drawn By: Author

Checked: Checker

Date: 12/29/15

Job No.:
544

Sheet No.:

A2.5

ROOM FINISH SCHEDULE

Room	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
COMMUNITY ROOM	Carpet	Wood	GWB	GWB/Acoustic Wood Panels	
SM GROUP	Carpet	Wood	GWB	GWB/Acoustic Cloud	
YOUNG ADULT	Carpet	Wood	GWB	GWB/Acoustic Cloud	
TOILET	Ceramic Tile	Ceramic Tile	GWB/CT	GWB	
TOILET	Ceramic Tile	Ceramic Tile	GWB/CT	GWB	
VEST.	Honed Concrete	Wood	GWB	GWB	
STORAGE	Carpet	Rubber	GWB	GWB	
MECH.	Sealed Concrete	Rubber	GWB	GWB	
CIRC. DESK	Carpet	Wood	GWB	GWB/Acoustic Cloud	
LOBBY	Honed Concrete	Wood	GWB	GWB/Acoustic Wood Panels	
FRIENDS	Honed Concrete	Wood	GWB	GWB	
COMPUTER AREA	Carpet	Wood	GWB	GWB/Acoustic Wood Panels	
NEW WORK TABLES	Carpet	Wood	GWB	GWB/Acoustic Wood Panels	
OFFICE	Carpet	Rubber	GWB	GWB/Acoustic Tile	
LRG GROUP	Carpet	Rubber	GWB	GWB/Acoustic Cloud	
CUST.	Ceramic Tile	Rubber	GWB/CT	GWB	
KIT.	Linoleum	Wood	GWB	GWB	
CHILDRENS ROOM	Carpet	Wood	GWB	GWB/Acoustic Cloud	
READING ROOM	Carpet	Wood	GWB	GWB/Acoustic Wood Panels	
ELEC.	Carpet	Rubber	GWB	GWB	
EXISTING QUIET READING	Ex. Carpet	Ex. Wood	Ex. GWB	Existing	

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Sheet Contents:
ROOM FINISH SCHEDULE

Revisions:

Number	Description	Date

Drawn By: Author

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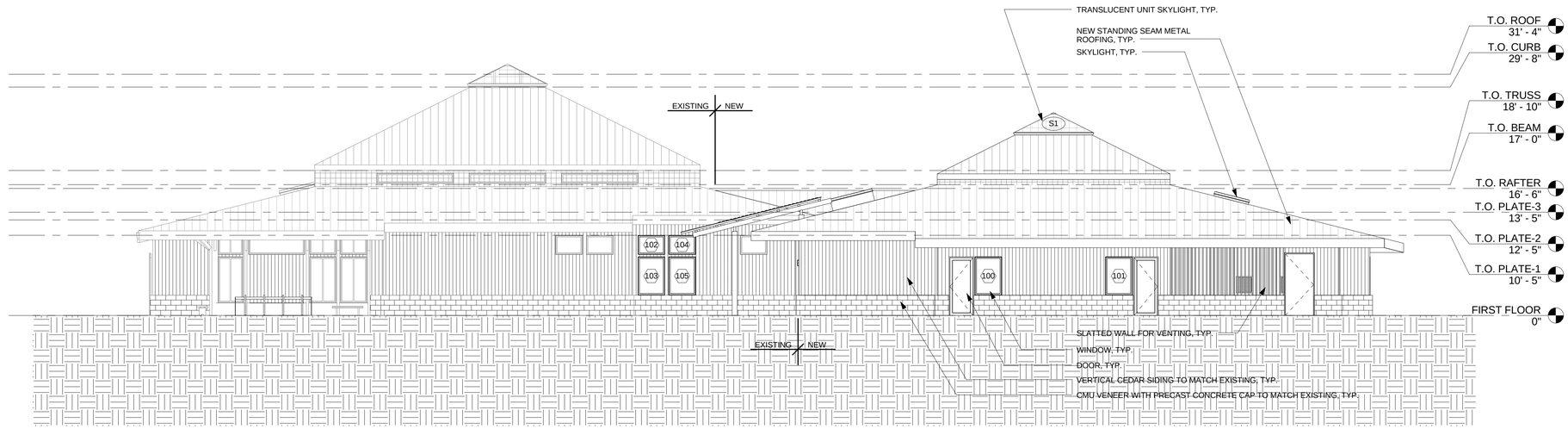
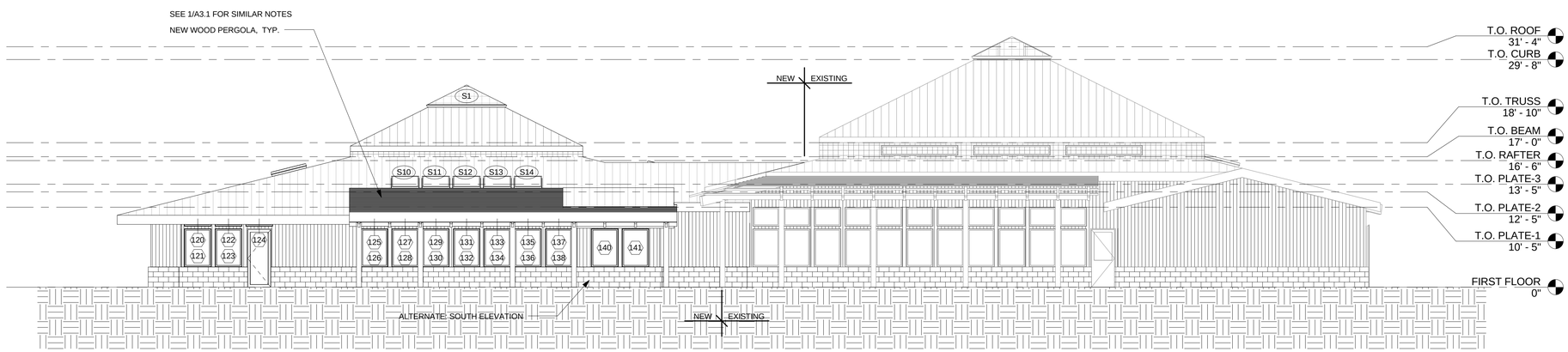
Date: 12/24/15

Job No.: 544

Sheet No.: A2.6



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



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

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Sheet Contents:
BUILDING ELEVATIONS

Revisions:

Number	Description	Date

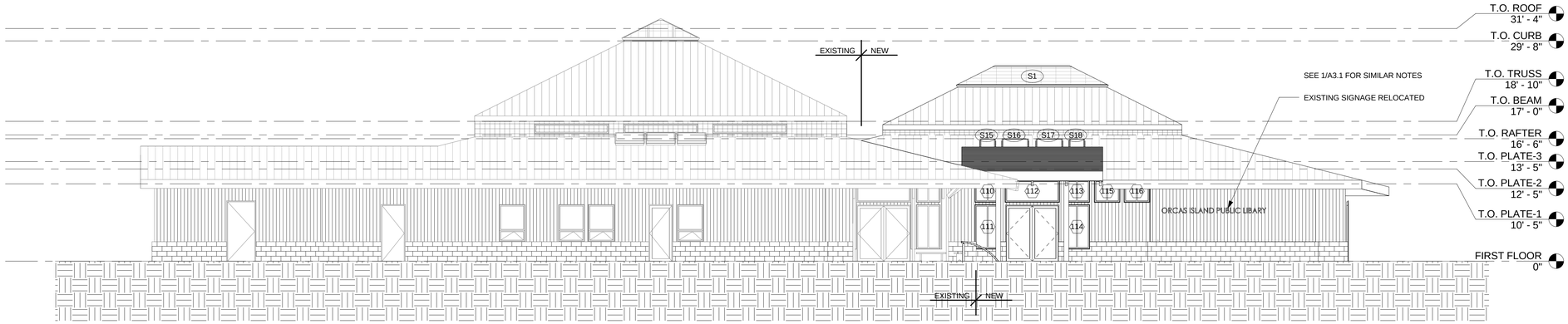
Drawn By: CB

Checked: JB

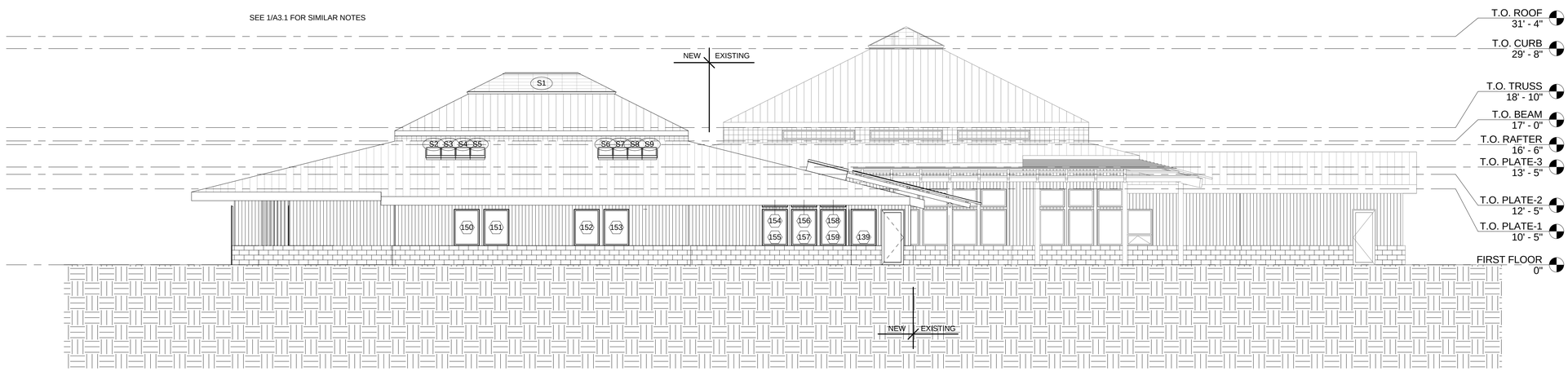
Date: 11/30/15

Job No.: 544

Sheet No.: A3.1



1 EAST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"

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Sheet Contents:
BUILDING ELEVATIONS

Revisions:

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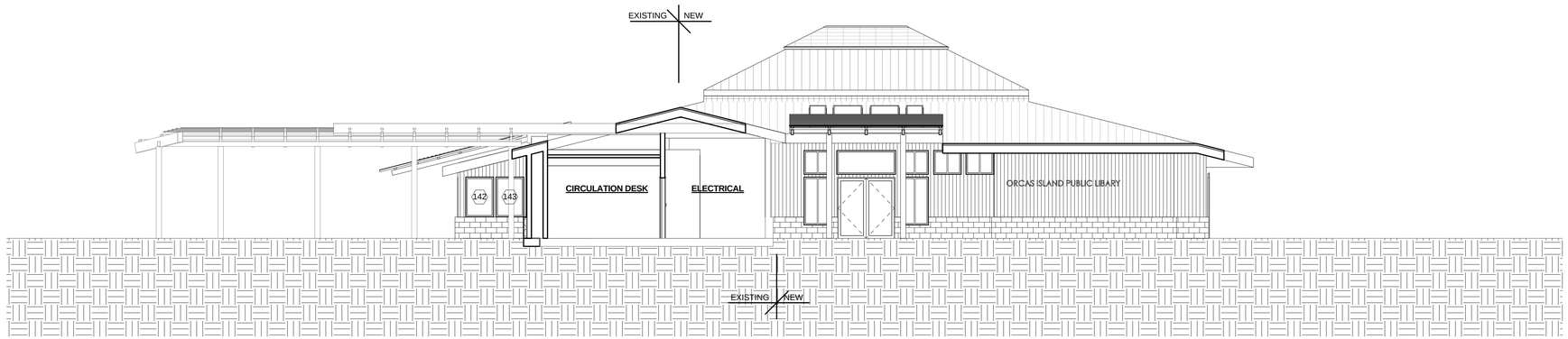
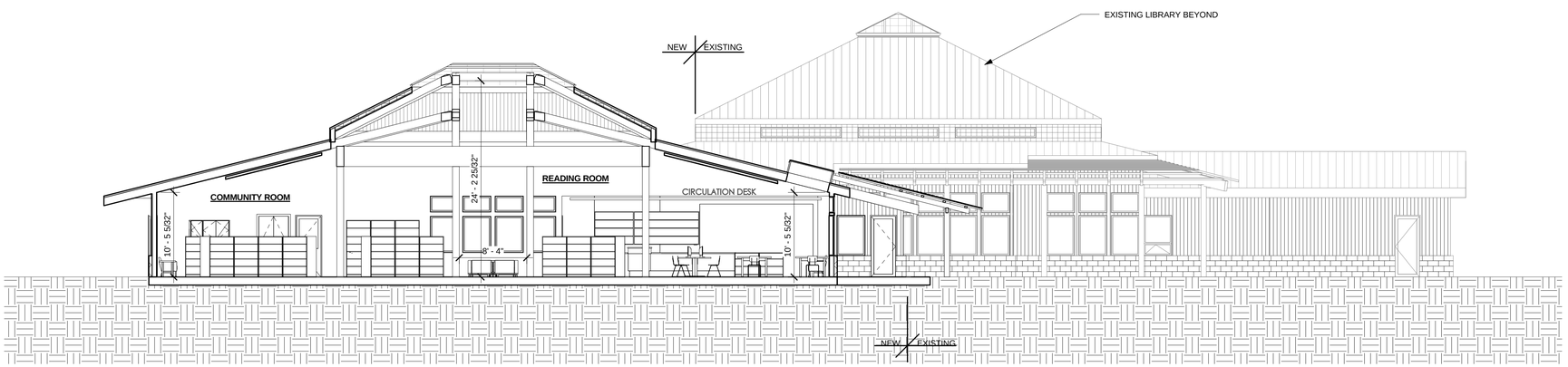
Job No.:
544

Sheet No.:
A3.2



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



B SECTION B-B
1/8" = 1'-0"

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Sheet Contents:
BUILDING SECTIONS

Revisions:

Number	Description	Date

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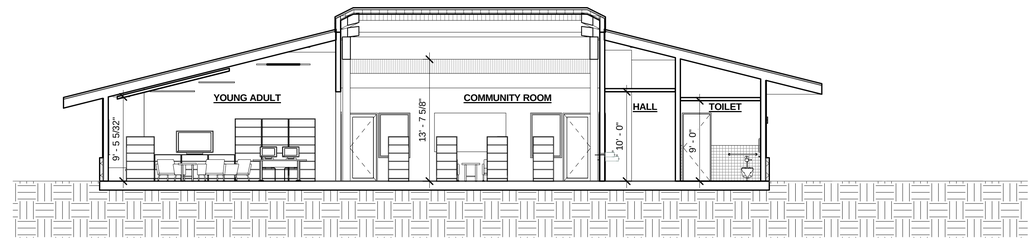
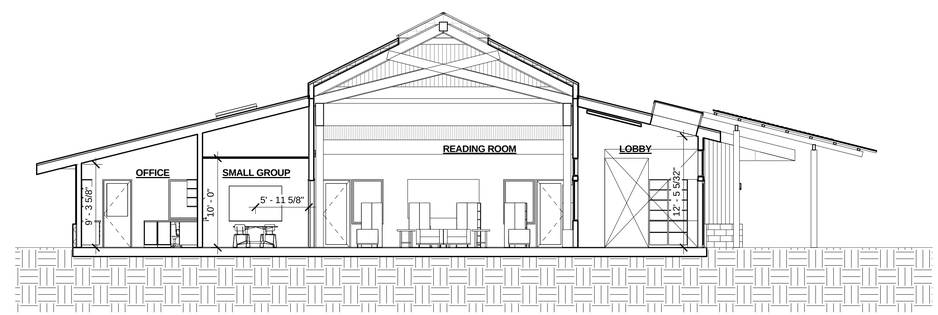
Job No.:
544

Sheet No.:
A4.1



C SECTION C-C
1/8" = 1'-0"



D SECTION D-D
1/8" = 1'-0"

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Sheet Contents:
BUILDING SECTIONS

Revisions:

Number	Description	Date

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Date: 11/30/15

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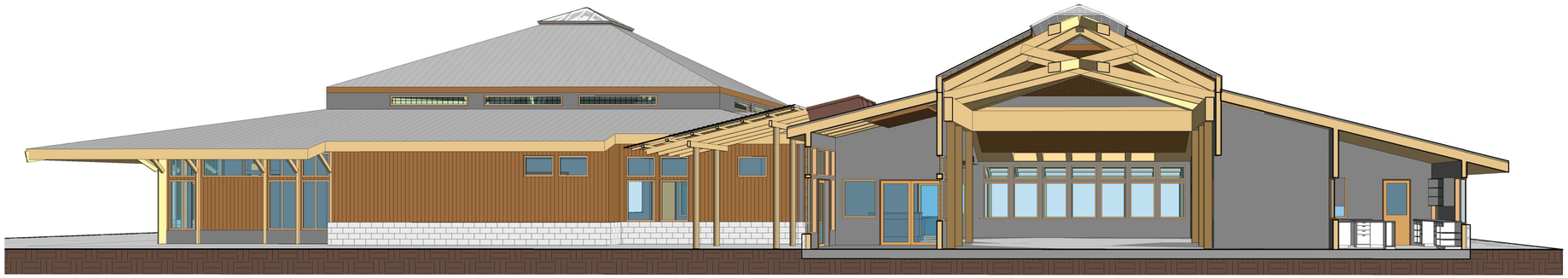
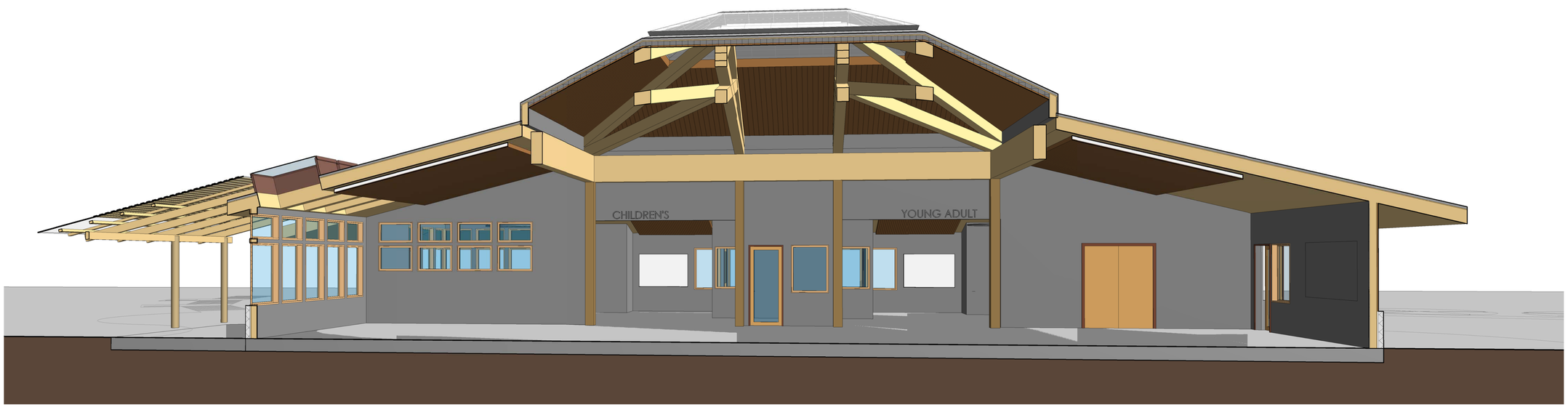
544

Sheet No.:
A4.2



1 SECTION PERSPECTIVE E-E



2 SECTION PERSPECTIVE F-F

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Sheet Contents:
SECTION PERSPECTIVES

Revisions:

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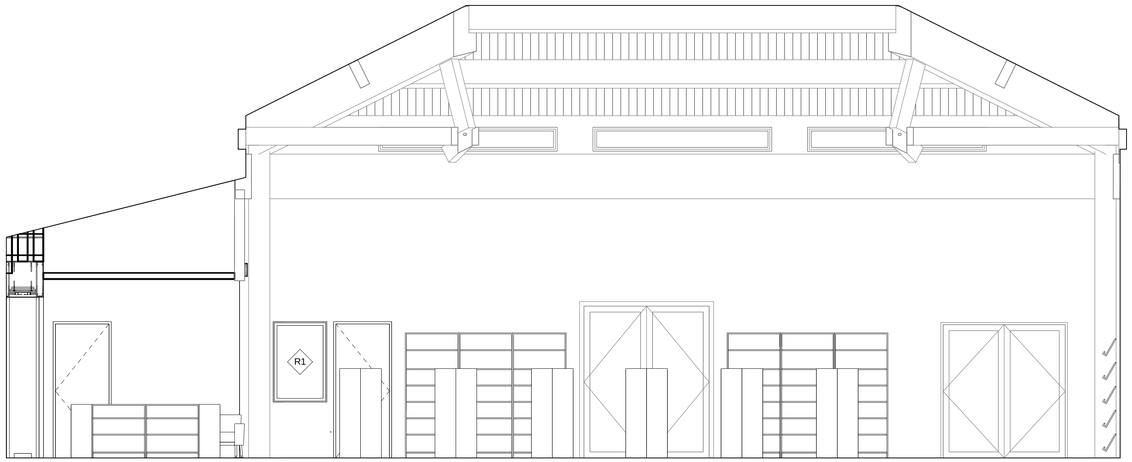
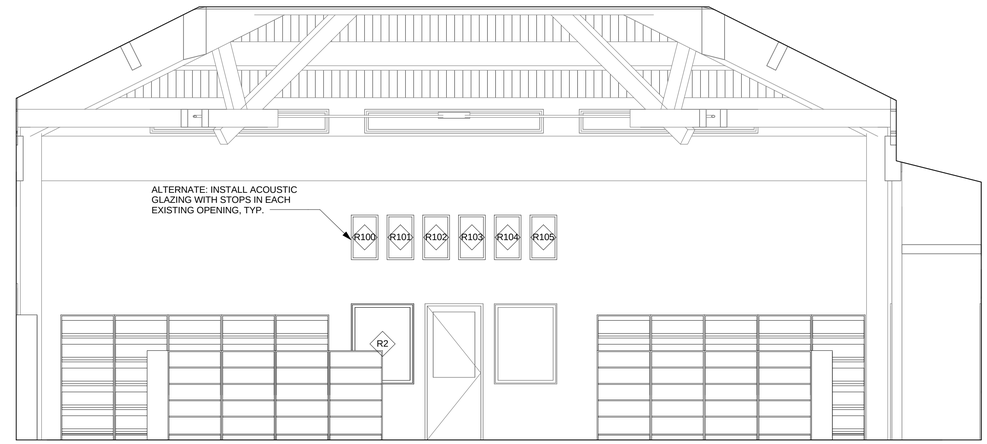
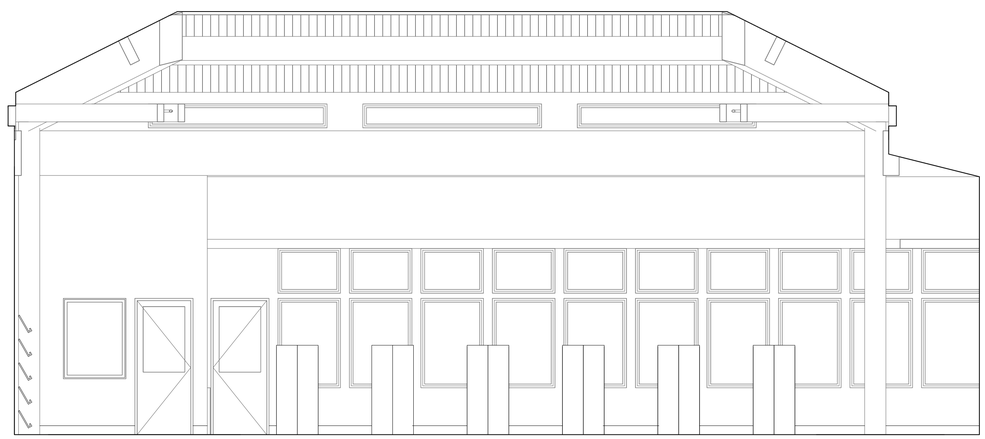
A4.3



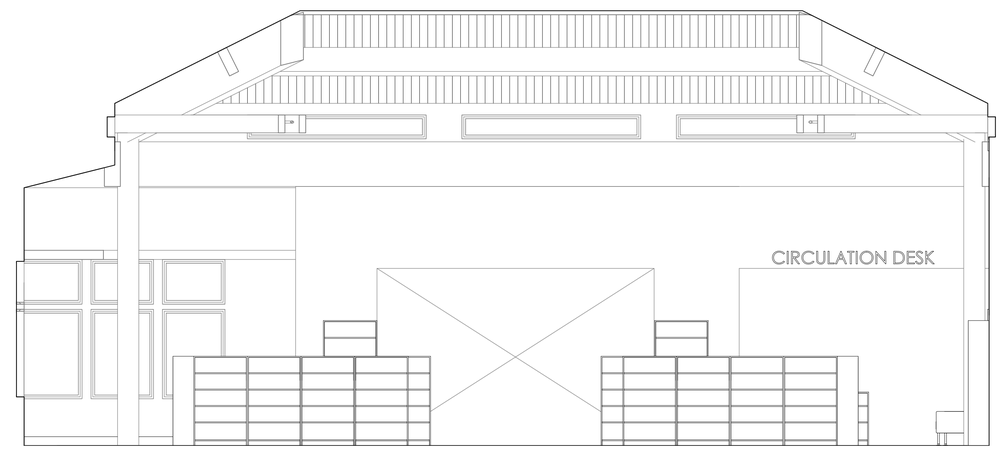
1 EXISTING READING ROOM - NORTH
1/4" = 1'-0"



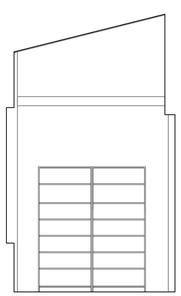
2 EXISTING READING ROOM - EAST
1/4" = 1'-0"



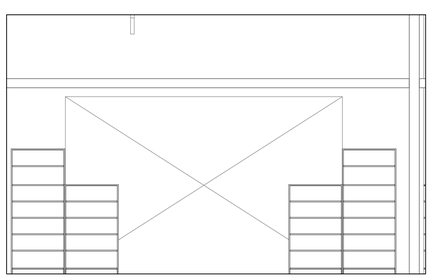
3 EXISTING READING ROOM - SOUTH
1/4" = 1'-0"



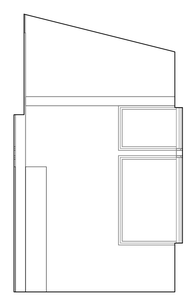
4 EXISTING READING ROOM - WEST
1/4" = 1'-0"



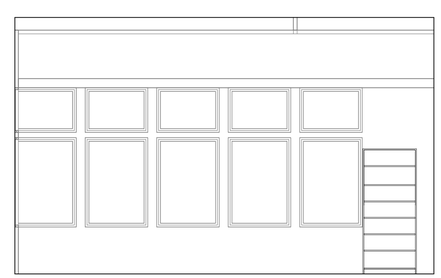
5 EXISTING QUIET READING 51 - NORTH
1/4" = 1'-0"



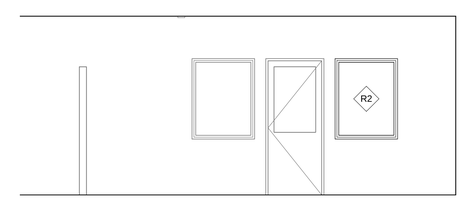
6 EXISTING QUIET READING 51 - EAST
1/4" = 1'-0"



7 EXISTING QUIET READING 51 - SOUTH
1/4" = 1'-0"



8 EXISTING QUIET READING 51 - WEST
1/4" = 1'-0"



9 EXISTING WORKROOM - WEST (PARTIAL ELEVATION)
1/4" = 1'-0"

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Sheet Contents:
INTERIOR ELEVATIONS

Revisions:

Number	Description	Date

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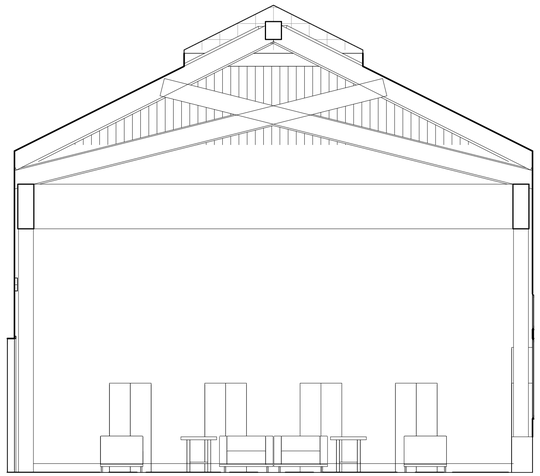
Date: 12/28/15

Job No.: 544

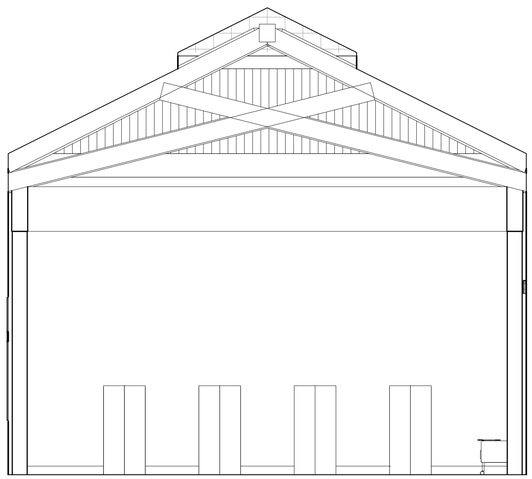
Sheet No.:

A6.1



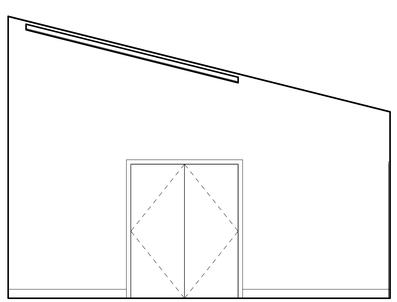
1 READING ROOM 48 - NORTH
1/4" = 1'-0"

2 READING ROOM 48 - EAST
1/4" = 1'-0"

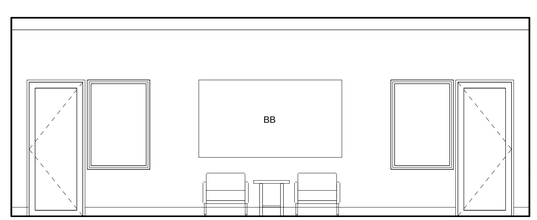


3 READING ROOM 48 - SOUTH
1/4" = 1'-0"

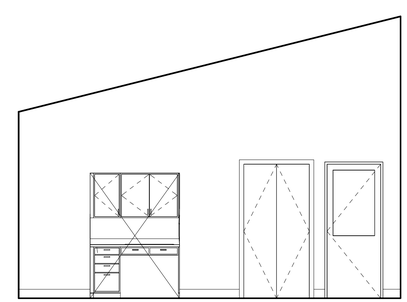
4 READING ROOM 48 - WEST
1/4" = 1'-0"



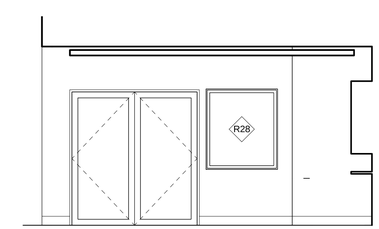
5 COMMUNITY ROOM 19 - WEST
1/4" = 1'-0"



6 COMMUNITY ROOM 19 - NORTH
1/4" = 1'-0"



7 COMMUNITY ROOM 19 - EAST
1/4" = 1'-0"



8 CIRC. DESK 29 - NORTH
1/4" = 1'-0"

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Sheet Contents:
INTERIOR ELEVATIONS

Revisions:

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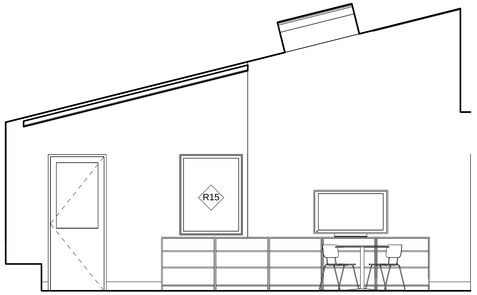
A6.2



1 CHILDRENS ROOM 45 - NORTH
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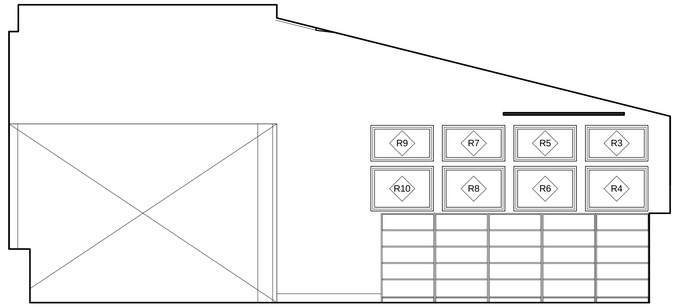
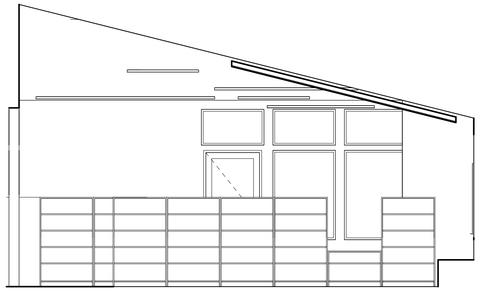
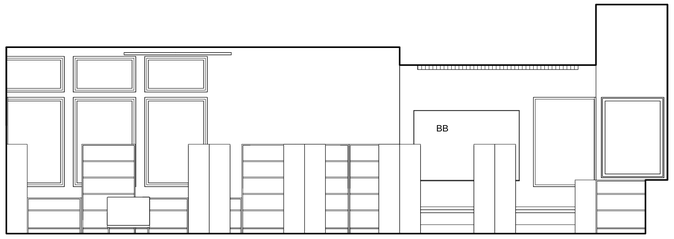


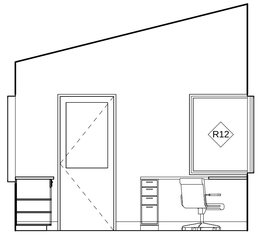
2 CHILDRENS ROOM 45 - EAST
1/4" = 1'-0"



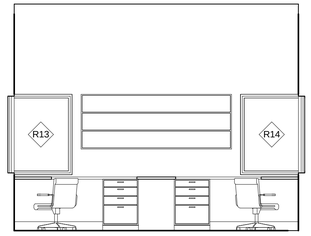
3 CHILDRENS ROOM 45 - SOUTH
1/4" = 1'-0"



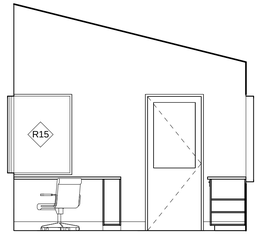
4 CHILDRENS ROOM 45 - WEST
1/4" = 1'-0"



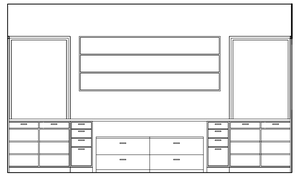
5 OFFICE 37 - NORTH
1/4" = 1'-0"



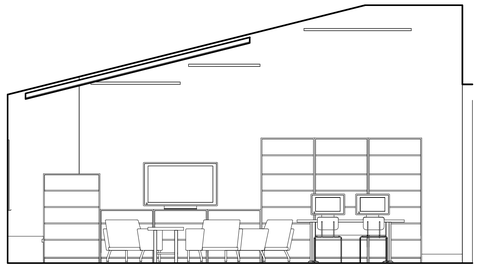
6 OFFICE 37 - EAST
1/4" = 1'-0"



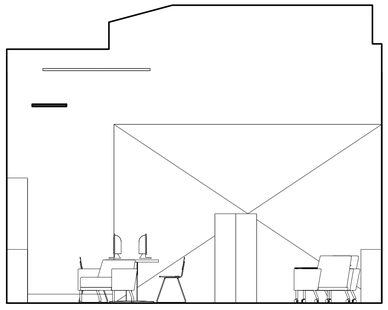
7 OFFICE 37 - SOUTH
1/4" = 1'-0"



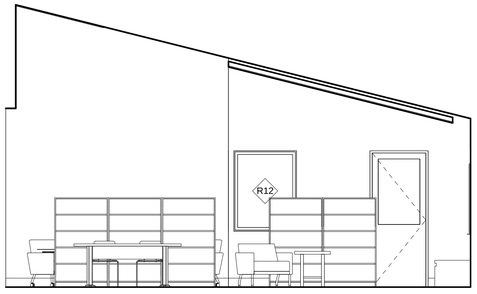
8 OFFICE 37 - WEST
1/4" = 1'-0"



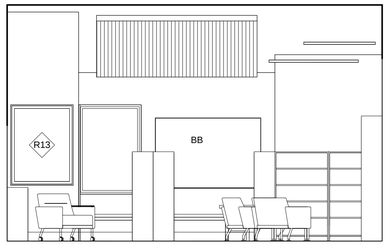
9 YOUNG ADULT 18 - NORTH
1/4" = 1'-0"



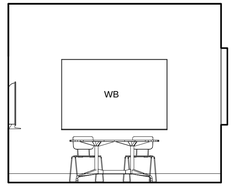
10 YOUNG ADULT 18 - EAST
1/4" = 1'-0"



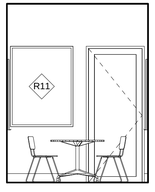
11 YOUNG ADULT 18 - SOUTH
1/4" = 1'-0"



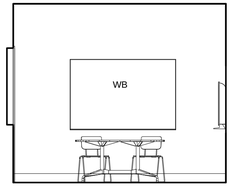
12 YOUNG ADULT 18 - WEST
1/4" = 1'-0"



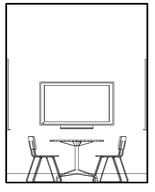
13 SMALL GROUP 17 - NORTH
1/4" = 1'-0"



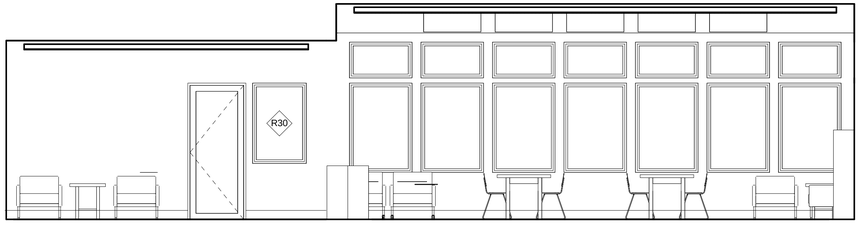
14 SMALL GROUP 17 - EAST
1/4" = 1'-0"



15 SMALL GROUP 17 - SOUTH
1/4" = 1'-0"



16 SMALL GROUP 17 - WEST
1/4" = 1'-0"



17 NEW WORK TABLES 36 - SOUTH
1/4" = 1'-0"

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Sheet Contents:
INTERIOR ELEVATIONS

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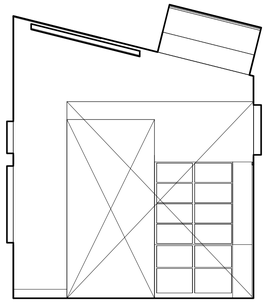
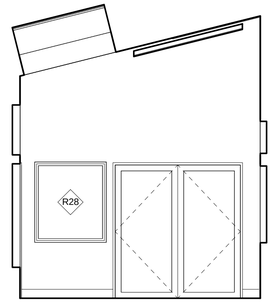
544

Sheet No.:
A6.3



1 LOBBY 30/FRIENDS 32 - NORTH
1/4" = 1'-0"

2 LOBBY 30/FRIENDS 32 - EAST
1/4" = 1'-0"



3 LOBBY 30/FRIENDS 32 - SOUTH
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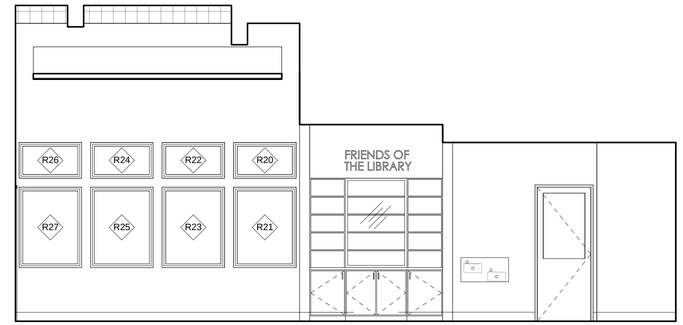
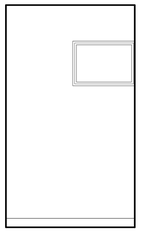
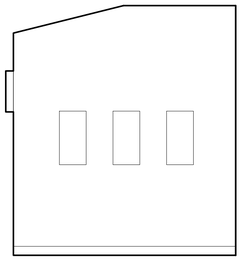


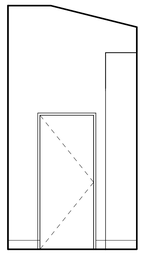
4 LOBBY 30/FRIENDS 32 - WEST
1/4" = 1'-0"



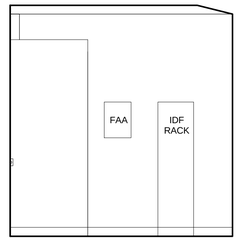
5 ELEC. RM. 50 - NORTH
1/4" = 1'-0"



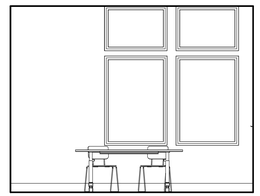
6 ELEC. RM. 50 - EAST
1/4" = 1'-0"



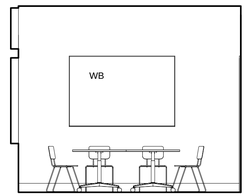
7 ELEC. RM. 50 - SOUTH
1/4" = 1'-0"



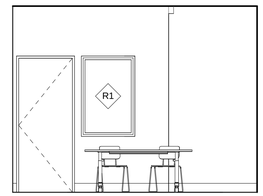
8 ELEC. RM. 50 - WEST
1/4" = 1'-0"



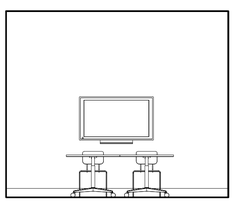
9 LARGE GROUP 40 - NORTH
1/4" = 1'-0"



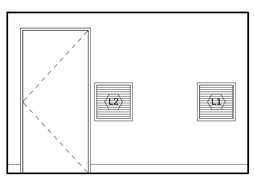
10 LARGE GROUP 40 - EAST
1/4" = 1'-0"



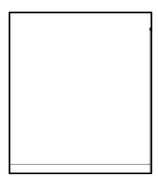
11 LARGE GROUP 40 - SOUTH
1/4" = 1'-0"



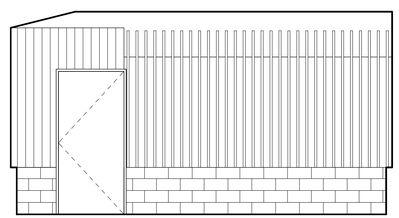
12 LARGE GROUP 40 - WEST
1/4" = 1'-0"



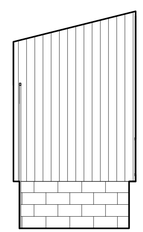
13 MECH. RM. 27 - NORTH
1/4" = 1'-0"



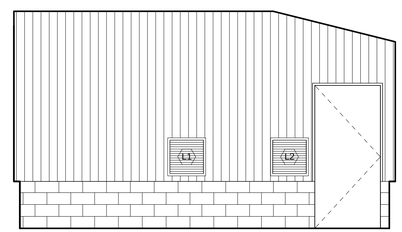
14 MECH. RM. 27 - WEST
1/4" = 1'-0"



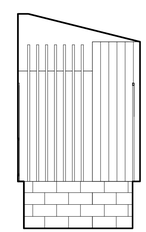
15 EXT. MECH./STO - NORTH
1/4" = 1'-0"



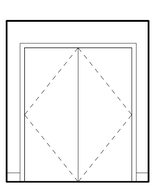
16 EXT. MECH./STO - EAST
1/4" = 1'-0"



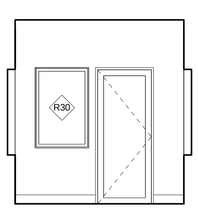
17 EXT. MECH./STO - SOUTH
1/4" = 1'-0"



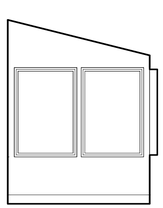
18 EXT. MECH./STO - WEST
1/4" = 1'-0"



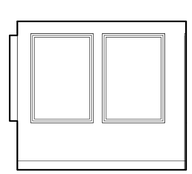
19 STORAGE 26 - EAST
1/4" = 1'-0"



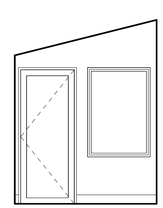
20 VESTIBULE 25 - NORTH
1/4" = 1'-0"



21 VESTIBULE 25 - EAST
1/4" = 1'-0"



22 VESTIBULE 25 - SOUTH
1/4" = 1'-0"



23 VESTIBULE 25 - WEST
1/4" = 1'-0"

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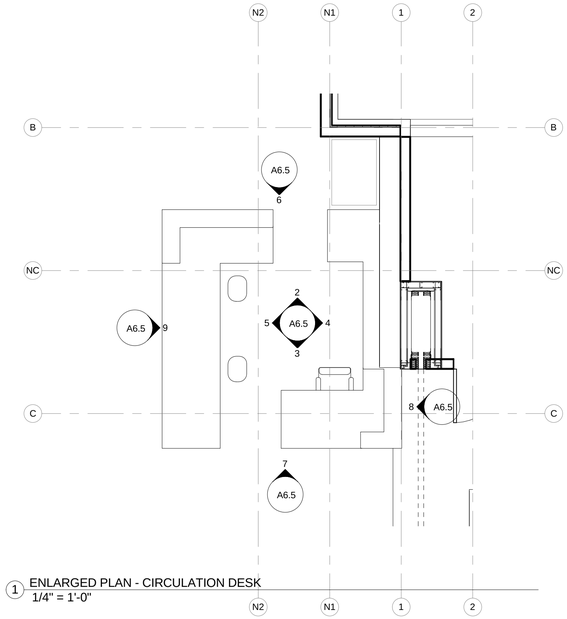
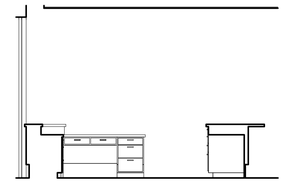
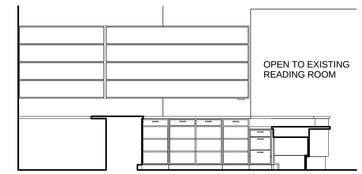


1 ENLARGED PLAN - CIRCULATION DESK
1/4" = 1'-0"

2 CIRC. DESK - NORTH INSIDE
1/4" = 1'-0"



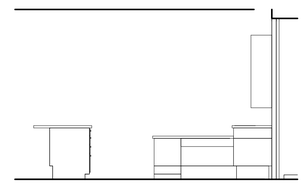
3 CIRC. DESK - SOUTH INSIDE
1/4" = 1'-0"



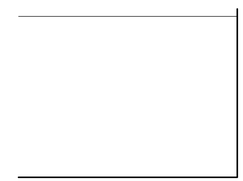
4 CIRC. DESK - EAST INSIDE
1/4" = 1'-0"

5 CIRC. DESK - WEST INSIDE
1/4" = 1'-0"

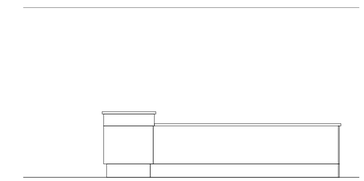
6 CIRC. DESK - NORTH OUTSIDE
1/4" = 1'-0"



7 CIRC. DESK - SOUTH OUTSIDE
1/4" = 1'-0"



8 CIRC. DESK - EAST OUTSIDE
1/4" = 1'-0"



9 CIRC. DESK - WEST OUTSIDE
1/4" = 1'-0"

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Sheet Contents:
CASEWORK

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Number	Description	Date

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Checked: Checker

Date: 12/28/15

Job No.: 544

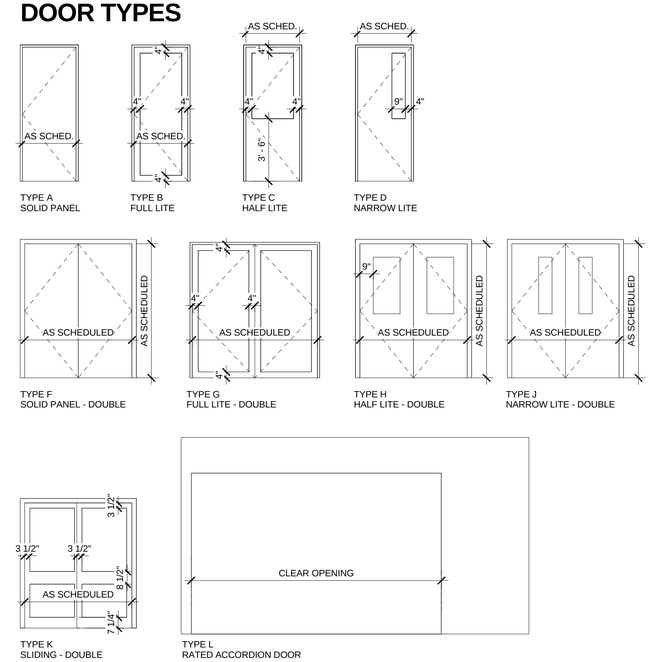
Sheet No.:

A6.5

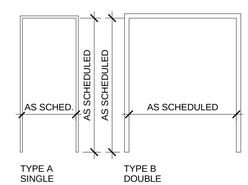
DOOR AND FRAME SCHEDULE

Door Number	SIZE Width	SIZE Height	DOOR Door Type	DOOR Finish	DOOR Door Material	Fire Rating	FRAME Frame Type	FRAME Frame Material	FRAME Frame Finish	DETAILS Head	DETAILS Jamb 1	DETAILS Jamb2	DETAILS Threshold	Glazing Type	Comments
17	3' - 0"	7' - 6"	B												
19A	3' - 0"	7' - 6"	B												
19B	3' - 0"	7' - 6"	B												
19C	3' - 8"	7' - 6"	F												
23	3' - 0"	7' - 6"	A												
24	3' - 0"	7' - 6"	A												
25A	3' - 0"	7' - 6"	B												
25B	3' - 0"	7' - 6"	B												
26	6' - 0"	7' - 6"	F												
27	3' - 8"	8' - 0"	A												
30A	7' - 0"	7' - 5 1/2"	G												
30B	7' - 0"	7' - 5 1/2"	G												
32	3' - 0"	7' - 6"	C												
36	13' - 11 3/4"	9' - 0"	L			90 minute FR									
37A	3' - 0"	7' - 6"	C												
37B	3' - 0"	7' - 6"	C												
40	3' - 0"	7' - 6"	A												
42	2' - 8"	7' - 6"	A												
45A	3' - 0"	7' - 6"	B												
50	3' - 0"	7' - 6"	A												
EXT.	3' - 8"	8' - 0"	A												

DOOR TYPES



FRAME TYPES



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DOOR SCHEDULE AND TYPES

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A7.1

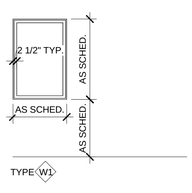
WINDOW/SKYLIGHT/RELITE SCHEDULE

WIN. NO.	ROUGH OPENING Width	Height	RM	TYPE	FRAME MAT'L	DETAILS HEAD	JAMB	JAMB	SILL	GLASS TYPE	SILL HEIGHT	NOTES
WINDOW												
100	3' - 6"	5' - 0"									2' - 7 1/2"	
101	3' - 6"	5' - 0"									2' - 7 1/2"	
102	3' - 6"	2' - 6"									7' - 11"	
103	3' - 6"	5' - 0"	40								2' - 7 1/2"	
104	3' - 6"	2' - 6"									7' - 11"	
105	3' - 6"	5' - 0"	40								2' - 7 1/2"	
110	3' - 5 1/2"	3' - 0"									7' - 11"	
111	3' - 5 1/2"	6' - 0"	30								1' - 7 1/2"	
112	7' - 4"	3' - 0"									7' - 11"	
113	3' - 5 1/2"	3' - 0"									7' - 11"	
114	3' - 5 1/2"	6' - 0"									1' - 7 1/2"	
115	3' - 5 1/2"	3' - 0"									7' - 11"	
116	3' - 5 1/2"	3' - 0"									7' - 11"	
120	3' - 6"	2' - 0"									7' - 11"	
121	3' - 6"	5' - 0"									2' - 7 1/2"	
122	3' - 6"	2' - 0"									7' - 11"	
123	3' - 6"	5' - 0"									2' - 7 1/2"	
124	3' - 6"	2' - 0"									7' - 11"	
125	3' - 6"	2' - 0"									7' - 11"	
126	3' - 6"	5' - 0"									2' - 7 1/2"	
127	3' - 6"	2' - 0"									7' - 11"	
128	3' - 6"	5' - 0"									2' - 7 1/2"	
129	3' - 6"	2' - 0"									7' - 11"	
130	3' - 6"	5' - 0"									2' - 7 1/2"	
131	3' - 6"	2' - 0"									7' - 11"	
132	3' - 6"	5' - 0"									2' - 7 1/2"	
133	3' - 6"	2' - 0"									7' - 11"	
134	3' - 6"	5' - 0"									2' - 7 1/2"	
135	3' - 6"	2' - 0"									7' - 11"	
136	3' - 6"	5' - 0"									2' - 7 1/2"	
137	3' - 6"	2' - 0"									7' - 11"	
138	3' - 6"	5' - 0"									2' - 7 1/2"	
139	3' - 6"	5' - 0"	25								2' - 7 1/2"	
140	3' - 6"	5' - 0"	25								2' - 7 1/2"	
141	3' - 6"	5' - 0"	25								2' - 7 1/2"	
142	3' - 6"	5' - 0"	25								2' - 7 1/2"	
143	3' - 6"	5' - 0"	25								2' - 7 1/2"	
150	3' - 6"	5' - 0"									2' - 7 1/2"	
151	3' - 6"	5' - 0"									2' - 7 1/2"	
152	3' - 6"	5' - 0"									2' - 7 1/2"	
153	3' - 6"	5' - 0"	45								2' - 7 1/2"	
154	3' - 6"	2' - 0"									7' - 11"	
155	3' - 6"	5' - 0"									2' - 7 1/2"	
156	3' - 6"	2' - 0"									7' - 11"	
157	3' - 6"	5' - 0"									2' - 7 1/2"	
158	3' - 6"	2' - 0"									7' - 11"	
159	3' - 6"	5' - 0"									2' - 7 1/2"	

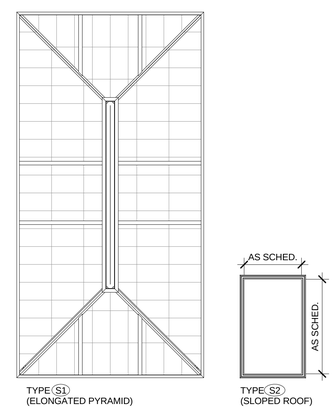
WINDOW/SKYLIGHT/RELITE SCHEDULE

WIN. NO.	ROUGH OPENING Width	Height	RM	TYPE	FRAME MAT'L	DETAILS HEAD	JAMB	JAMB	SILL	GLASS TYPE	SILL HEIGHT	NOTES
SKYLIGHT												
S1	10' - 0"	20' - 0"										
S2	2' - 0"	4' - 7"										
S3	2' - 0"	4' - 7"										
S4	2' - 0"	4' - 7"										
S5	2' - 0"	4' - 7"										
S6	2' - 0"	4' - 7"										
S7	2' - 0"	4' - 7"										
S8	2' - 0"	4' - 7"										
S9	2' - 0"	4' - 7"										
S10	3' - 6"	5' - 7"										
S11	3' - 6"	5' - 7"										
S12	3' - 6"	5' - 7"										
S13	3' - 6"	5' - 7"										
S14	3' - 6"	5' - 7"										
S15	2' - 0"	5' - 7"										
S16	3' - 6"	5' - 7"										
S17	3' - 6"	5' - 7"										
S18	2' - 0"	5' - 7"										
RELITE												
R1	3' - 0"	4' - 6"	40								3' - 1 1/2"	
R2	3' - 6"	4' - 6"									3' - 1 1/2"	
R3	3' - 6"	2' - 0"									7' - 11"	
R4	3' - 6"	2' - 6"	36								5' - 1 1/2"	
R5	3' - 6"	2' - 0"									7' - 11"	
R6	3' - 6"	2' - 6"	36								5' - 1 1/2"	
R7	3' - 6"	2' - 0"									7' - 11"	
R8	3' - 6"	2' - 6"	36								5' - 1 1/2"	
R9	3' - 6"	2' - 0"									7' - 11"	
R10	3' - 6"	2' - 6"	33								5' - 1 1/2"	
R11	3' - 6"	4' - 6"	48								3' - 1 1/2"	
R12	3' - 6"	4' - 6"	37								3' - 1 1/2"	
R13	3' - 6"	4' - 6"	18								3' - 1 1/2"	
R14	3' - 6"	4' - 6"	45								3' - 1 1/2"	
R15	3' - 6"	4' - 6"	37								3' - 1 1/2"	
R20	3' - 6"	2' - 0"									8' - 0"	
R21	3' - 6"	4' - 6"	48								3' - 0"	
R22	3' - 6"	2' - 0"									8' - 0"	
R23	3' - 6"	4' - 6"	48								3' - 0"	
R24	3' - 6"	2' - 0"									8' - 0"	
R25	3' - 6"	4' - 6"	48								3' - 0"	
R26	3' - 6"	2' - 0"									8' - 0"	
R27	3' - 6"	4' - 6"	48								3' - 0"	
R28	4' - 0"	4' - 6"	29								3' - 1 1/2"	
R30	3' - 0"	4' - 6"	25								3' - 1 1/2"	
R100	1' - 6"	2' - 6"									10' - 1"	
R101	1' - 6"	2' - 6"									10' - 1"	
R102	1' - 6"	2' - 6"									10' - 1"	
R103	1' - 6"	2' - 6"									10' - 1"	
R104	1' - 6"	2' - 6"									10' - 1"	
R105	1' - 6"	2' - 6"									10' - 1"	
LOUVER												
L1	2' - 0"		27	L1							3' - 0"	
L2	2' - 0"		27	L1							3' - 0"	

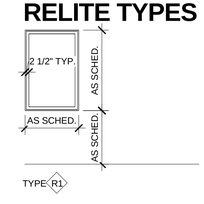
WINDOW TYPES



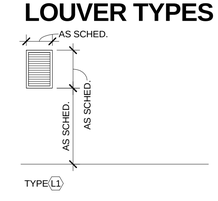
SKYLIGHT TYPES



RELITE TYPES



LOUVER TYPES



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Sheet Contents:
WINDOW/RELITE/LOUVER SCHEDULE AND TYPES

Revisions:

Number	Description	Date

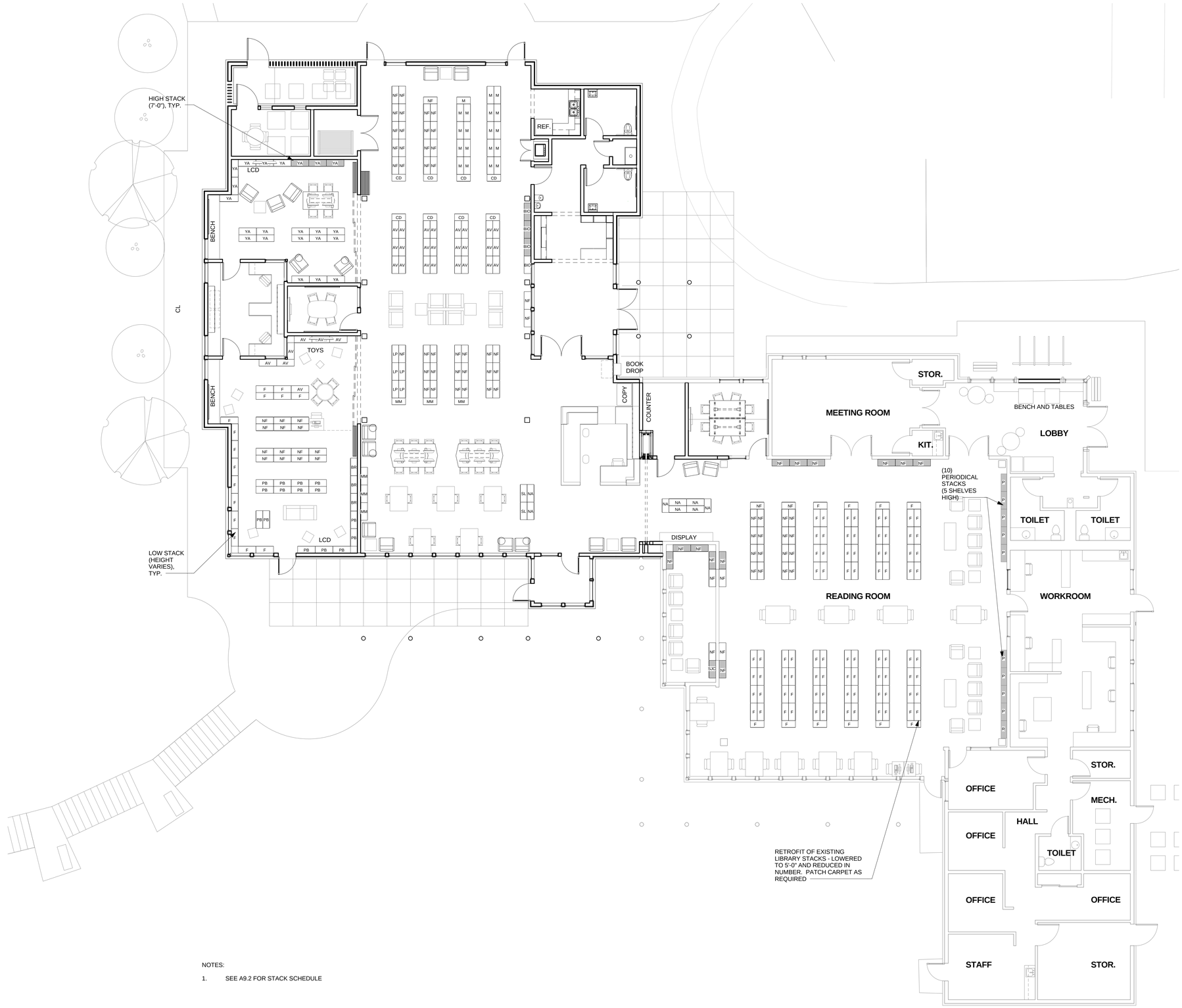
Drawn By: Author

Checked: Checker

Date: 01/04/16

Job No.: 544

Sheet No.: A7.2



NOTES:

1. SEE A9.2 FOR STACK SCHEDULE

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

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Sheet Contents:
FLOOR PLAN - STACK PLAN

Revisions:

Number	Description	Date

Drawn By: CB

Checked: JB

Date: 12/04/15

Job No.: 544

Sheet No.:

A9.1

ROOM	CATALOGUE	MARK	TYPE	# SHELVES	LF
CHILDREN					
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 3'-0" Tall - Childrens	3	9' - 0"
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 3'-0" Tall - Childrens	3	9' - 0"
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 3'-0" Tall - Childrens	3	9' - 0"
CHILDREN	AUDIO-VISUAL	AV	2'-10" Wide x 3'-0" Tall - Childrens	3	8' - 6"
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 3'-0" Tall - Childrens	3	9' - 0"
CHILDREN	AUDIO-VISUAL	AV	3'-0" Wide x 3'-0" Tall - Childrens	3	9' - 0"
AUDIO-VISUAL					68' - 6"
CHILDREN	BEGINNING READERS	BR	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	BEGINNING READERS	BR	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	BEGINNING READERS	BR	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
BEGINNING READERS					45' - 0"
CHILDREN	FICTION	F	2'-10" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	FICTION	F	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
FICTION					171' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
NON-FICTION					210' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall - Childrens	5	15' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall	4	12' - 0"
CHILDREN	PICTURE BOOKS	PB	3'-0" Wide x 5'-0" Tall	4	12' - 0"
PICTURE BOOKS					219' - 0"
CHILDREN					713' - 6"
YOUNG ADULT					
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"

ROOM	CATALOGUE	MARK	TYPE	# SHELVES	LF
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 7'-0" Tall	6	18' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 7'-0" Tall	6	18' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 7'-0" Tall	6	18' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-0" Wide x 5'-0" Tall	4	12' - 0"
YOUNG ADULT	BOOKS AND MAGAZINES	YA	3'-2" Wide x 5'-0" Tall	4	12' - 0"
BOOKS AND MAGAZINES					264' - 0"
YOUNG ADULT					264' - 0"
NEW READING ROOM					
NEW READING ROOM	ADULT LARGE PRINT	LP	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT LARGE PRINT	LP	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT LARGE PRINT	LP	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT LARGE PRINT	LP	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT LARGE PRINT	LP	3'-0" Wide x 5'-0" Tall	4	12' - 0"
ADULT LARGE PRINT					60' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	ADULT PAPERBACK	MM	2'-4" Wide x 5'-0" Tall	4	9' - 0"
ADULT PAPERBACK					63' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	AUDIO-VISUAL	AV	3'-0" Wide x 5'-0" Tall	4	12' - 0"
AUDIO-VISUAL					288' - 0"
NEW READING ROOM	BIOGRAPHY	BIO	3'-0" Wide x 7'-0" Tall	6	18' - 0"
NEW READING ROOM	BIOGRAPHY	BIO	3'-0" Wide x 7'-0" Tall	6	18' - 0"
NEW READING ROOM	BIOGRAPHY	BIO	3'-0" Wide x 7'-0" Tall	6	18' - 0"
NEW READING ROOM	BIOGRAPHY	BIO	3'-0" Wide x 5'-0" Tall	4	12' - 0"
BIOGRAPHY					66' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MUSIC CDS	CD	2'-4" Wide x 5'-0" Tall	4	9' - 0"
MUSIC CDS					72' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	MYSTERY	M	3'-0" Wide x 5'-0" Tall	4	12' - 0"
MYSTERY					225' - 0"
NEW READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
NEW READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
NEW ARRIVALS					18' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 2'-0" Tall - Childrens	2	6' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	2'-4" Wide x 5'-0" Tall	4	9' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"

ROOM	CATALOGUE	MARK	TYPE	# SHELVES	LF
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NEW READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NON-FICTION					465' - 0"
NEW READING ROOM	SPANISH LANGUAGE	SL	3'-0" Wide x 3'-0" Tall	3	9' - 0"
NEW READING ROOM	SPANISH LANGUAGE	SL	3'-0" Wide x 3'-0" Tall	3	9' - 0"
SPANISH LANGUAGE					18' - 0"
NEW READING ROOM					1275' - 0"
EXISTING READING ROOM					
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	FICTION	F	2'-4" Wide x 5'-0" Tall	4	9' - 0"

ROOM	CATALOGUE	MARK	TYPE	# SHELVES	LF
FICTION					1050' - 0"
EXISTING READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
EXISTING READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
EXISTING READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
EXISTING READING ROOM	NEW ARRIVALS	NA	3'-0" Wide x 3'-0" Tall	3	9' - 0"
EXISTING READING ROOM	NEW ARRIVALS	NA	2'-4" Wide x 3'-0" Tall	2	4' - 8"
EXISTING READING ROOM	NEW ARRIVALS	NA	2'-4" Wide x 3'-0" Tall	2	4' - 8"
NEW ARRIVALS					45' - 4"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	2'-4" Wide x 5'-0" Tall	4	9' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
EXISTING READING ROOM	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NON-FICTION					378' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
EXISTING READING ROOM	PERIODICALS	P	3'-0" Wide x 7'-0" Tall	5	15' - 0"
PERIODICALS					135' - 0"
EXISTING READING ROOM	REFERENCE	R	3'-0" Wide x 7'-0" Tall	5	15' - 0"
REFERENCE					15' - 0"
EXISTING READING ROOM					1623' - 4"
QUIET READING					
QUIET READING	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
QUIET READING	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
QUIET READING	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
QUIET READING	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
QUIET READING	NON-FICTION	NF	3'-0" Wide x 7'-0" Tall	6	18' - 0"
QUIET READING	NON-FICTION	NF	3'-0" Wide x 5'-0" Tall	4	12' - 0"
NON-FICTION					96' - 0"
QUIET READING	SJC COLLECTION	SJC	3'-0" Wide x 7'-0" Tall	6	18' - 0"
SJC COLLECTION					18' - 0"
QUIET READING					114' - 0"
327					3989' - 10"

STACK CAPACITY GOALS

LOCATION	CATEGORY	EXISTING	EX. + 30% = GOAL	ACTUAL	BALANCE
CHILDRENS	AUDIO-VISUAL (AV)	90 LF	117 LF	117.5 LF	+0.5 LF
	BEG. READERS (BR)	30 LF	39 LF	45 LF	+6 LF
	FICTION (F)	207 LF	269 LF	225 LF	-44 LF
	NON-FICTION (NF)	156 LF	203 LF	210 LF	+7 LF
	PICTURE BOOKS (PB)	164 LF	213 LF	216 LF	+3 LF
	TOTAL	357 LF	841 LF	813.5 LF	-27.5 LF
YA	BOOKS & MAGs (YA)	141 LF	183 LF	264 LF	+81 LF
ADULT	FICTION (F & SF)	756 LF	983 LF	1,050 LF	+67 LF
	NON-FICTION (NF)	972 LF	1,264 LF	939 LF	-325 LF
	MYSTERY (M)	168 LF	218 LF	225 LF	+7 LF
	BIOGRAPHY (BIO)	72 LF	94 LF	66 LF	-28 LF
	OVERSIZE (O)	75 LF	98 LF	36 LF	-60 LF
	NEW ARRIVALS (NA)	54 LF	70 LF	102 LF	+32 LF
	AUDIO-VISUAL (AV)	290 LF	312 LF	288 LF	-24 LF
	PAPERBACKS (MM)	54 LF	70 LF	63 LF	-7 LF
	REFERENCE (R)	12 LF	16 LF	15 LF	-1 LF
	LARGE PRINT (LP)	60 LF	78 LF	60 LF	-12 LF
	SJC COLLECTION (SJC)	6 LF	8 LF	18 LF	+10 LF
	MUSIC CD'S (CD)	45 LF	59 LF	72 LF	+13 LF
	PERIODICALS	105 LF	137 LF	135 LF	-2 LF
SPAN	SPANISH LANGUAGE (SL)			12 LF	
	TOTAL	2,619 LF	3,402 LF	3,081 LF	-321 LF

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EASTSOUND, WA 98245

Sheet Contents:
STACK SCHEDULE

Revisions:

Number	Description	Date

Drawn By: Author

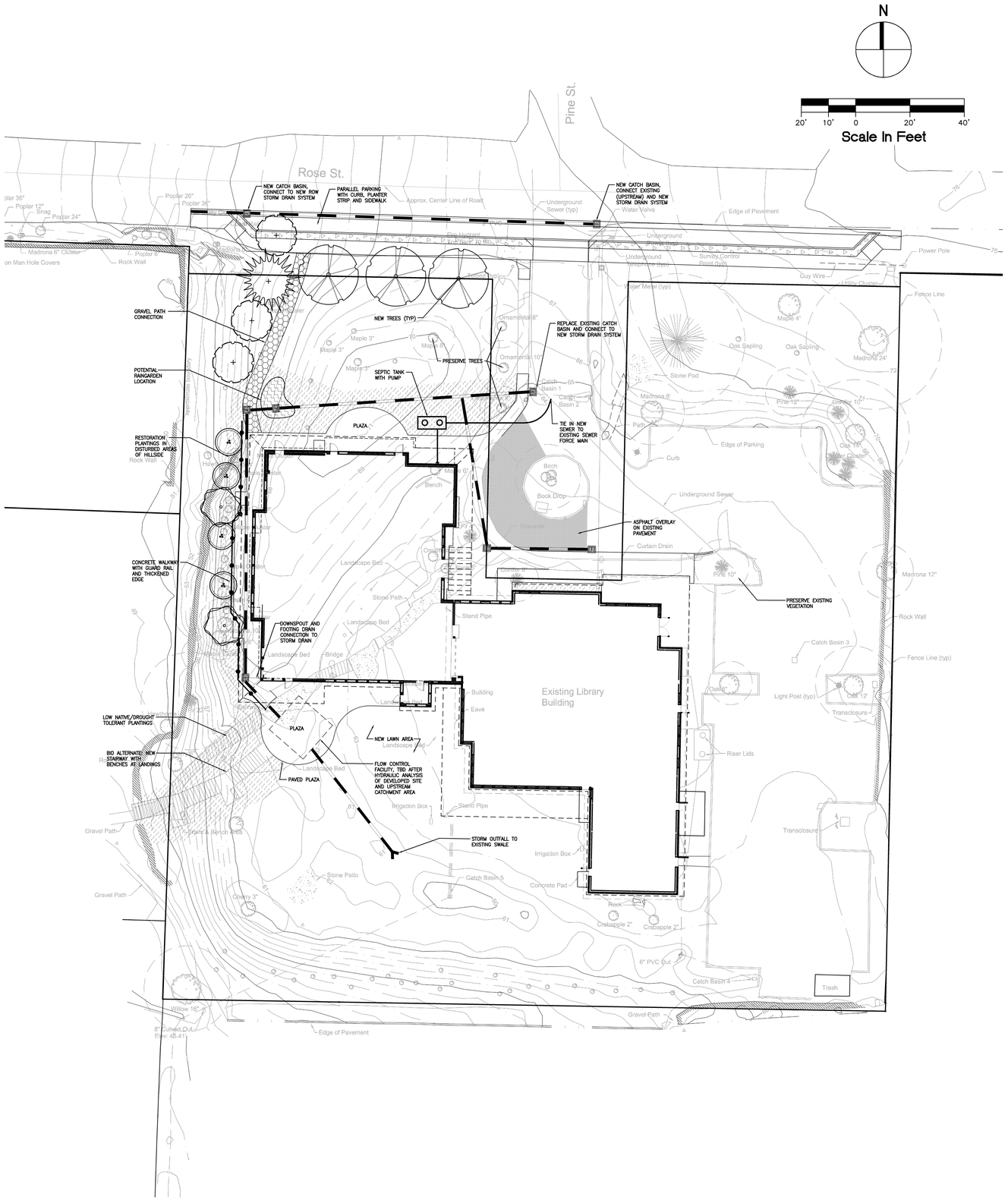
Checked: Checker

Date: 12/04/15

Job No.: 544

Sheet No.:

A9.2



PRELIMINARY PLANT LIST / LEGEND

	SCIENTIFIC NAME	COMMON NAME
Medium/Large ShadeTrees		
	Acer saccharum 'Bonfire' *	Bonfire Sugar Maple
	Aescules hippocastrum *	Horsechestnut
	Quercus rubra coccinea *	Scarlet Oak
	Tila cordata 'Greenspire'	Greenspire Linden
	Ulmus parvifolium Emer II	Allee Elm
Ornamental/Flowering Trees		
	Cornus Kousa	Kousa Dogwood
	Corylus cornuta var. californica	Western Beaked Hazelnut
	Lagarstroemia 'Natchez	Natchez Crepe Myrtle
	Malus floribunda *	Crabapple (fruitless)
	Styrax japonica	Japanese Snowbell
Small Multistem		
	Acer ginnale 'Flame'	Flame Amur Maple
	Acer circinatum	Vine Maple
	Acer palmatum	Japanese Maple
Conifer/Evergreen Trees		
	Calocedrus decurrens	Incense Cedar
	Thuja plicata	Western Red Cedar

* from approved list for Street Trees, Eastsound Subarea Plan, Table 130-5

Ornamental Bed, Site Restoration and Streetscape Plants

Large Shrubs Accent Plantings (>36" Height)		
	Ceanothus spp.	Ceanothus
	Cornus ' Arctic Fire'	Arctic Fire Redtwig Dogwood
	Hammemelis spp.	Witch Hazel
	Physocarpus spp.	Ninebark
	Rhododendron spp.	NCN
	Ribes spp.	Currant
Small /Med Shrubs		
	Abelia grandiflora 'Kaleidoscope'	Kaleidoscope Abelia
	Barberry buxifolius Nana"	Dwarf Barberry
	Hebe spp.	Hebe spp.
	Lavandula spp.	Lavender
	Lonicera nitida "Twiggy'	Twiggy Honeysuckle Shrub
	Mahonia nervosa	Dwarf Oregon Grape
	Prunus laurocerus 'Mt Vernon'	Mt Vernon Laurel
	Rosmarinus spp.	Rosemary
	Sarcoccoca rusifolia	Sarcoccoca
	Spiraea betulifolia 'Tor'	Tor Birchleaf Spiraea
	Taxus cuspidata 'Monloo' (or Emerald Spreader)	Emerald Spreader Japanese Yew
Grasses/Ferns		
	Carex testacea	Orange Sedge
	Dryopteris erythrosara	Autumn Fern
	Miscanthus sinensis 'Little Kitten'	Little Kitten Dwarf Miscanthus
	Polystichum munitum	Sword Fern
	Polystichum setiferum divisilobum	Divided Soft Shield Fern
Perennials		
	Achillia spp.	Yarrow
	Alchemilla mollia	Lady's Mantle
	Crocosmia spp.	Crocosmia
	Echinacea spp.	Cone flower
	Geum spp.	Geum
	Helleborus x hybridus var.	Lenten Rose
	Nepeta 'Walker's Low'	Catmint
	Perovskia atriplicifolia 'Little Spire'	Russian Sage
	Rudebeckia spp.	Black-eyed Susan
Groundcovers		
	Geranium macrorrhizum 'Album'	Hardy Geranium
	Sedum spp.	Stonecrop
	Helianthemum spp.	Sun Rose
	Sarcoccoca humilis	Dwarf sarcoccoca
Bulbs		
	Crocus spp.	Crocus
	Iris siberica var.	Japanese Iris
	Narcissus spp.	Daffodil
Rain Garden Plants		
	Cornus sericea 'Kelseyi'	Dwarf redtwig dogwood
	Iris sibirica 'Ruffled Velvet'	Ruffled Velvet Siberian iris
	Juncus patens 'Elk Blue'	Gray rush
	Juncus balticus	Baltic rush
	Mahonia repens	Creeping Oregon grape
	Polystichum munitum	Sword fern
	Ribes sanguineum	Red flowering currant

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DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
SITE PLAN

Revisions:

Drawn: JM

Checked: MRS
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Job No: 15040

Sheet No: L1.0

GENERAL REQUIREMENTS

SUMMARY OF WORK
Project consists of new construction as shown on these Contract Documents used in coordination with the Architectural and other discipline's documents.

DEFINITIONS
The following definitions are used throughout these structural notes:
IBC - Governing code, including local amendments
SER - Structural Engineer of Record per these Contract Documents
UNO - unless noted otherwise

GOVERNING CODE
All design and construction shall conform to the 2012 International Building Code and local jurisdiction amendments.

Reference to ASTM and other standards shall refer to the latest edition designated by IBC Chapter 35. Refer to the specifications for information in addition to that covered by these structural notes and drawings.

DOCUMENTS
Structural Documents shall be used in conjunction with Architectural Documents for all bidding and construction.

Drawings indicate general and typical details of construction. Typical details and general notes shall apply even if not specifically denoted on plans, UNO. Where conditions are not specifically indicated similar details of construction shall be used, subject to review and approval by the Architect and the SER.

Existing structural information, designated as (E) on the structural drawings, has been compiled from information furnished by various sources and is not necessarily field-verified by the engineer. Dimensions relating to existing structures are intended for use as guidelines only; all dimensions shall be field-verified by the contractor prior to start of construction. Notify the Architect of any discrepancies.

These Contract Documents and any materials used in preparation of them, including calculations, are the exclusive property of the SER and can be reproduced only with the permission of the SER.

WARRANTY
The SER has used that degree of care and skill ordinarily exercised under similar circumstances by members of the profession in this locale and no other warranty, either expressed or implied, is made in connection with rendering professional services.

OWNER RESPONSIBILITY
The owner shall retain a Special Inspector to perform the special inspection requirements required by the building official and as outlined in the Special Inspection section below.

DESIGN CRITERIA

BUILDING CATEGORY
Structural Risk Category II
Importance factors for snow, wind and seismic are listed with the loading criteria.

LIVE LOADS - FLOOR AND ROOF
Live loads have been reduced per IBC
Partition loading has been added per IBC

Libraries:

Reading rooms	60 psf
Stack rooms	150 psf
Concentrated load (all conditions)	1,000 lbs

LIVE LOADS - SNOW
Numbering below is per IBC Section 1603.1.3:
1. Flat-Roof Snow Load: Pf = 25 psf
2. Snow Exposure Factor: Ce = 0.9
3. Snow Importance Factor: Is = 1.0
4. Thermal Factor: Ct = 1.0

Additional Items:
Ground Snow Load: Pg = 20 psf
Snow drifting load per IBC w/ ground snow load

LATERAL LOADS - WIND
Numbering below is per IBC Section 1603.1.4:
1. Ultimate Design Wind Speed (3-second gust): Vult = 110 mph
   Nominal Design Wind Speed: Vasd = 85 mph
2. Risk Category: II
   Wind Importance Factor: I = 1.0
3. Wind Exposure: C
4. Internal Pressure Coefficient = +/- 0.18
5. Components and Cladding:
   The following working loads may be used in lieu of calculations:

All wall surfaces
exterior cladding + xxx psf
exterior cladding - xxx psf
Uplift at roof
in field - xxx psf
at edges - xxx psf
at corner - xxx psf
Overhangs
at edges - xxx psf
at corner - xxx psf
Walls
at field - xxx psf
at edge - xxx psf
Roofing Materials
within XX'-X" of edges - xxx psf
elsewhere - xxx psf

LATERAL LOADS - EARTHQUAKE
Numbering below is per IBC Section 1603.1.5:
1. Risk Category: II
2. Seismic Importance Factor: Ie = 1.0
3. Mapped Spectral Response Acceleration Parameters: SS = 1.050 g; S1 = 0.421 g
4. Site Class: D; FA = 1.080; FV = 1.579
5. Design Spectral Response Acceleration Parameters: SDS = 0.756 g; SD1 = 0.443 g
6. Seismic Design Category: D
7. Basic Seismic Force-Resisting Systems:
   Vertical Elements: Light framed wood structural panels;
   Diaphragms: Wood structural panels (Flexible);
8. Design Base Shear: 23 kips
9. Seismic Response Coefficient: CS = 0.116
10. Response Modification Coefficient: R = 6 1/2
11. Analysis Procedure: Equivalent Lateral Force Procedure

Additional Items:
Building Location: 48.70° N, -122.90° W
Building Height = 30 feet
Redundancy Factors:
North/South Direction = 1.0
East/West Direction = 1.0

CONTRACTOR PERFORMANCE REQUIREMENTS

DESIGN DOCUMENTS
Contractor shall verify all dimensions and all conditions at the job site, including building and site conditions before commencing work, and be responsible for same. All discrepancies shall be reported to the Architect before proceeding with work. Any errors, ambiguities and/or omissions in the contract documents shall be reported to the Architect immediately, in writing. No work is to be started before correction is made.

Contractor shall verify and/or coordinate all dimensioned openings and slab edges shown on the contract documents. Some dimensions, openings and embedded items are shown on the structural drawings. Others may be required. Refer to architectural drawings for size and location of curbs, equipment pads, wall and floor openings, architectural treatment, embeds required for architectural items and dimensions. Refer to mechanical, plumbing, electrical and fire protection drawings for size and location of all openings for ducts, piping, conduits, etc. Submit openings to architect for review.

Do not scale drawings. Use only field verified dimensions. When electronic plan files are provided for the contractor's detailing convenience, it shall be noted that the electronic files are not guaranteed to be dimensionally accurate. The contractor uses them at his own risk. The published paper documents are the controlling Contract Documents. Electronic files of detail sheets and notes will not be provided.

CONTRACTOR-INITIATED CHANGES
Contractor-initiated changes shall be submitted in writing to the Architect for review and acceptance prior to fabrication or construction. Changes shown on shop drawings only will not satisfy this requirement.

INSPECTIONS
The contractor shall coordinate with the building department for all building department required inspections.

TEMPORARY SHORING AND BRACING
The contractor shall provide temporary bracing as required until all permanent connections and stiffening have been installed. The contractor is responsible for the strength and stability of all partially completed structures including but not limited to concrete or masonry walls, steel framing and erection aids. The contractor shall at his discretion employ the aid of a licensed structural engineer to design all temporary bracing and shoring necessary to complete the work described in these contract documents. The contractor shall be responsible for all required safety standards, safety precautions and the methods, techniques, sequences or procedures required in performing his work. For concrete construction refer to ACI 318 - Section 6.2 "Removal of Forms, Shores, and Reshores".

SAFETY PROCEDURES
Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the contractor's work. The Structural Engineer has no overall supervisory authority or actual and/or direct responsibility for the specific working conditions at the site and/or for any hazards resulting from the actions of any trade contractor. The Structural Engineer has no duty to inspect, supervise, note, correct, or report any health or safety deficiencies to the owner, contractors, or other entities or persons at the project site.

RENOVATIONS

DEMOLITION
Contractor shall verify all existing conditions before commencing any demolition. Shoring shall be installed to support existing construction as required and in a manner suitable to the work sequences. Demolition debris shall not be allowed to damage or overload the existing structure. Limit construction loading (including demolition debris) on existing floor systems to 40 psf.

EXISTING WOOD
Contractor shall check for dryrot at all areas of new work. All rot shall be removed and damaged members shall be replaced or repaired as directed by the structural engineer or architect.

SHOP DRAWINGS AND SUBMITTALS

SHOP DRAWING & SUBMITTAL REVIEW (including Deferred Structural Components)
The contractor must review and stamp the shop drawings & submittals for review. SER will only review submittals for items shown on SER documents. Submittals for Deferred Structural Components will receive cursory review by SER for loads imposed on primary structure. SER will review shop drawings for general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents.

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications.

Contractor responsible for:
- Reviewing, approving, stamping and signing submittals prior to submittal to Architect and SER
- Timing submittals to allow two weeks of review time for the SER and time for corrections and/or resubmittal
- Conformance to requirements of the Contract Documents
- Dimensions and quantities
- Verifying information to be confirmed or coordinated
- Information solely for fabrication, safety, means, methods, techniques and sequences of construction
- Coordination of all trades

Resubmittals shall be clouded and dated for all changes to the submittal. Only clouded portions of resubmittal will be reviewed and SER's review stamp applies to only these areas.

SUBSTITUTIONS
Substitutions shall be submitted in writing prior to submittal of shop drawings. Shop drawings bearing substitutions will be rejected. Submit engineering data to substantiate the equivalence of the proposed items. The SER's basic services contract does not include review of substitutions that require re-engineering of the item or adjacent structure. Nor does the SER's contract cover excessive review of proposed substitutions. The fees for making these reviews and/or redesign shall be paid by the contractor. Reviews and approvals shall not be made until authorization is received.

SUBMITTALS
Shop drawings and material submittals shall be submitted to the Architect and SER prior to any fabrication or construction for the following structural items. Submittals shall include one reproducible and one copy; reproducible will be marked and returned. If deviations, discrepancies, or conflicts between shop drawings submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the SER, the Contract Documents control and shall be followed.

- Construction sequence description
- Contractor Quality Control testing procedures when required in specifications
- Concrete mix designs
- Concrete construction joint plans
- Concrete accessories material specification, size and location
- Reinforcing bar shop drawings and placing plans
- Reinforcing bar mill certificates shall be available upon request
- Masonry materials and mix designs
- Non-shrink grout material specifications and manufacturer's installation recommendations
- Fabrication shop AISC Certification
- Structural steel mill certificates shall be available upon request
- Structural steel shop and erection drawings
- Welding Procedure Specifications
- Glued laminated members (certificates shall be on site and be available upon request)
- Engineered wood beams (certificates shall be on site and be available upon request)
- Hold down systems
- Deferred Structural Components listed below

SHOP DRAWINGS AND SUBMITTALS (cont'd)

DEFERRED STRUCTURAL COMPONENTS
Components referred to as Deferred Structural Components shall comply with these notes. These elements have not been permitted under the base building application. The contractor will be required to submit the component system documents to the building official for approval. The documents shall be stamped and signed by an engineer licensed by the state where the project is located. The deferred structural components shall not be installed until the design and submittal documents have been approved by the building official.

Prior to building department submittal, the deferred structural components submittals shall receive cursory review by SER for loads imposed on primary structure and general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents. Submittals of contractor-designed components shall include the designing professional engineer's stamp and signature, as noted above. The submittal shall be approved by the component vendor prior to review by the SER. The designing professional is responsible for code conformance and all necessary connections not specifically called out on architectural or structural contract documents.

Submittals shall include details of connections to primary structure that indicate magnitude and direction of all loads imposed at point of connection. Design criteria shall be provided with submittal and calculations shall be made available upon request.

The following list includes the items that are defined as Deferred Structural Components. Refer to other discipline's contract documents for additional deferred components that may require structural design and details. Connections of these elements shall not induce torsion on structural members. Deferred Structural Components shall be manufactured, delivered, handled, stored, and field erected in conformance with instructions prepared by the component vendor.

Deferred structural components:
- Handrails, guards, grab bars, and wall mounted shower seats
- Marquees and canopies, unless detailed on Contract Documents
- Fall-restraint systems

INSPECTIONS

INSPECTIONS BY BUILDING OFFICIAL
The building official, upon notification, shall make structural inspections as required by local ordinance. The inspection by the building official per IBC Section 110 will be separate from and in addition to the special inspection and structural observation mentioned subsequently.

SPECIAL INSPECTIONS
A Special Inspector shall be hired by the owner to perform the following special inspections per IBC Section 1704. See the specifications for additional requirements for special inspection and testing. The architect, structural engineer, and building department shall be furnished with copies of all inspection reports and test results.

Designated seismic systems, defined in IBC Section 1705.11.4 - IBC Section 1705.11.7 as architectural, electrical and mechanical systems and their components that require design in accordance with ASCE 7-05 Chapter 13 and have a component important factor Ip greater than one, are subject to special inspection and testing.

Additional systems and components requiring special inspection and testing include: HVAC ductwork containing hazardous materials and anchorage of such ductwork, piping systems and mechanical units containing flammable, combustible or highly toxic materials, anchorage of electrical equipment used for emergency or standby power systems, interior non-bearing walls (unit weight greater than 15 psf), exterior non-bearing walls, cladding and veneer (unit weight greater than 5 psf) and their anchorage, suspended ceiling systems and their anchorage, access floors and their anchorage, and steel storage racks and their anchorage (where Ip = 1.5 at racks). Refer to IBC Section 1705 for required frequency of these special inspections and refer to IBC Section 1705.11 for required seismic qualification of designated seismic systems.

Each contractor responsible for the construction of a seismic force resisting system, designated seismic system, or component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner prior to the commencement of work on the system or component. The written statement shall be in accordance with IBC Section 1704.

See IBC Chapter 17: "Structural Tests and Special Inspections" for more detailed requirements.

SPECIAL INSPECTIONS OF DRIVEN DEEP FOUNDATION ELEMENTS (PER IBC 1705.7)

Verification and Inspection	Frequency		Reference
	Continuous	Periodic	
1. VERIFY ELEMENT MATERIALS, SIZES, AND LENGTHS TO COMPLY WITH THE REQUIREMENTS	X		
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED	X		
3. OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT	X		
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT	X		
5. FOR STEEL ELEMENTS: PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2			
7. FOR SPECIALTY ELEMENTS: PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE			

SPECIAL INSPECTIONS OF SOILS (PER IBC 1705.6)

Verification and Inspection	Frequency		Reference
	Continuous	Periodic	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	
2. VERIFY THAT EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL		X	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	X		

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SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION (PER IBC 1705.3)

Verification and Inspection	Frequency		Reference
	Continuous	Periodic	
1. INSPECTION OF REINFORCING STEEL		X	IBC 1910.4 ACI 318: 3.5, 7.1-7.7
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b			AWS D1.4 ACI 318: 3.5.2
3. INSPECTION OF ANCHORS CAST IN CONCRETE		X	ACI 318: D.9.2
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:			
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAIN TENSION LOADS	X		ACI 318: D9.2.4
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a		X	ACI 318: D9.2
5. VERIFYING USE OF REQUIRED DESIGN MIX		X	IBC 1904.2, 1910.2, 1910.3 ACI 318: Ch.4, 5.2-5.4
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		IBC 1910.10 ACI 318: 5.6, 5.8 ASTM C172, C31 SEATTLE DPD DR 20-2006
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		IBC 1910.6-8 ACI 318: 5.9, 5.10
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	IBC 1910.9 ACI 318: 5.11-5.13
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE BEING FORMED		X	ACI 318: 6.1.1
INSPECTION OF MECHANICAL SPLICING OF REINFORCING BARS	X		ICC REPORT FOR SPECIFIED PRODUCT
INSPECTION OF ADHESIVE ANCHOR INSTALLATIONS AND POST-INSTALLED MECHANICAL ANCHOR INSTALLATIONS	X		ICC REPORT FOR SPECIFIED PRODUCT

SPECIAL INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION

Verification and Inspection	Frequency		Reference
	Continuous	Periodic	
INSPECTION OF FABRICATOR'S QUALITY CONTROL PROCEDURES			IBC 1704.2.5
MATERIAL VERIFICATION OF STRUCTURAL STEEL		X	AISC 630-N.5.2
INSPECTION OF WELDING STRUCTURAL STEEL:			
COMPLETE AND PARTIAL-PENETRATION GROOVE WELDS	X		
MULTI-PASS FILLET WELDS	X		
SINGLE-PASS FILLET WELDS > 5/16"	X		AISC 360-N.5.4 AISC 360-N.5.5 AWS D1.1
SINGLE-PASS FILLET WELDS ≤ 5/16"		X	
WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGMS		X	
STAIR AND RAILING SYSTEM WELDS		X	
INSPECTION OF HIGH-STRENGTH BOLTING			AISC 360-N.5.6
INSPECTION OF STEEL FRAME DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS, INCLUDING MEMBER LOCATIONS, BRACING AND STIFFENING, AND APPLICATION OF APPROVED JOINT DETAILS		X	AISC 360-N.5.7

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Sheet Contents:
Structural General Notes

Revisions:

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Date: 10/14/13

Job No.: 15-175-01

Sheet No.:
S0.1

SPECIAL INSPECTIONS OF MASONRY CONSTRUCTION (PER IBC 1705.4)

	Verification and Inspection	Frequency		Reference
		Continuous	Periodic	
	VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE FOR SELF-CONSOLIDATING GROUT.	X		TMS 602: TB4, 1.5B.1.b.3
	VERIFICATION OF f'm AND f'aac PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.		X	TMS 602: TB4, 1.4B
1.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X	TMS 602: 1.5
2.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
	a. PROPORTIONS OF SITE-PREPARED MORTAR		X	TMS 602: 2.1, 2.6A
	b. CONSTRUCTION OF MORTAR JOINTS		X	TMS 602: 3.3B
	c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X	TMS 602: 2.4B, 2.4H
	d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	TMS 602: 3.4, 3.6A
	e. PRESTRESSING TECHNIQUE		X	TMS 602: 3.6B
	f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY:			
	FOR THE FIRST 5,000 SQUARE FEET	X		TMS 602: 2.1C
	AFTER THE FIRST 5,000 SQUARE FEET		X	
3.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
	a. GROUT SPACE		X	TMS 602: 3.2D, 3.2F
	b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	TMS 402: 1.16 TMS 602: 2.4, 3.4
	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	TMS 402: 1.16 TMS 602: 3.2E, 3.4, 3.6A
	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X	TMS 602: 2.6B, 2.4G.1.b
	e. CONSTRUCTION OF MORTAR JOINTS		X	TMS 602: 3.3B
4.	VERIFY DURING CONSTRUCTION:			
	a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X	TMS 602: 3.3F
	b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	TMS 402: 1.16.4.3, 1.17.1
	c. WELDING OF REINFORCEMENT	X		TMS 402: 2.1.7.7.2, 3.3.3.4(c) 8.3.3.4(b)
	d. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X	TMS 602: 1.8C, 1.8D
	e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X		TMS 602: A3.6B
	f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X		TMS 602: 3.5, 3.6C
	g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS:			
	FOR THE FIRST 5,000 SQUARE FEET	X		TMS 602: 3.3B8
	AFTER THE FIRST 5,000 SQUARE FEET		X	
5	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X	TMS 602: 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4

SPECIAL INSPECTIONS OF WOOD CONSTRUCTION

Verification and Inspection	Frequency		Reference
	Continuous	Periodic	
MOISTURE CONTENT OF WOOD-FRAMED CONSTRUCTION AT TIME OF COVER		X	REFER TO GENERAL NOTES
NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS (SPACED 4" OC OR CLOSER) WITHIN THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING DRAG STRUTS, BRACES, HOLDOWNS, SHEAR WALLS, FLOOR AND ROOF BLOCKING, AND DIAPHRAGMS		X	1705.11.2
FIELD GLUING OPERATIONS OF ELEMENTS WITHIN THE SEISMIC, FORCE RESISTING SYSTEM	X		1705.11.2

GEOTECHNICAL

REPORT & GENERAL CRITERIA
Criteria outlined in the report listed below was used for the design of the foundations:
Proposed Addition - Orcas Island Public Library
prepared by Materials Testing & Consulting, Inc. (October 30, 2015)

Contractor shall be familiar with recommendations in the above-mentioned report prior to start of construction. Allowable soil pressure and lateral earth pressure are assumed and therefore must be verified by a Geotechnical Inspector or the building official. If soils are found to be other than assumed, notify the structural engineer for possible foundation redesign. For wet weather work, see the Geotechnical Report.

Unless noted otherwise, footings shall be centered below columns or walls.

INSPECTIONS
All prepared soil-bearing surfaces shall be inspected by the owners Geotechnical Inspector (or building official) prior to placement of reinforcing steel and concrete. Inspections shall be made per IBC Table 1705.6.

BEARING VALUES
All footings shall bear on undisturbed soil and shall be lowered to firm bearing if suitable soil is not found at elevations shown. Exterior footings shall bear a minimum of 18" below the finished ground surface. Footing elevations shown on plans (or in details) are minimum depths and for guidance only; the actual elevations of footings must be established by the contractor in the field working with the Geotechnical Inspector.

Allowable soil pressure = 2,000 psf

GEOTECHNICAL (cont'd)

SUBGRADE PREPARATION
Prepare subgrade per the Geotechnical Report, summarized as follows: All footings shall be cast on undisturbed firm natural soils that are free of organic materials. Footing excavation shall be free of loose soils, sloughs, debris and free of water at all times. If organic silt and/or fill material is encountered at subgrade elevations, overexcavate a minimum of 2'-0" below the design foundation subgrade elevation prior to placing footings. The overexcavated areas shall be backfilled with structural fill compacted to 95% proctor per ASTM D-1557 or a lean concrete mix.

EXISTING UTILITIES
The contractor shall determine the location of all adjacent underground utilities prior to any excavation, shoring, pile driving, or pier drilling. Any utility information shown on the plans and details are approximate and not verified by the SER. Contractor is to provide protection of any utilities or underground structures during construction.

DRAINAGE
Drainage systems, including foundation, roof and surface drains, shall be installed as directed by the Geotechnical Report. Vapor retarder placed below slab-on-grade shall conform to ASTM E 1643 and ASTM E 745.

RETAINING WALLS
Grade on either side of concrete walls shall not vary by more than 12", UNO. Slope of backfill shall not exceed 2H to 1V, UNO. Backfill behind all retaining walls with free draining, granular fill installed per the Geotechnical Report. Provide for subsurface drainage. Design pressures used for the design of retaining walls are based on drained conditions.

Active earth pressure (restrained/unrestrained) = 30/60 PCF
Passive earth pressure = 150 PCF
Coefficient of friction (factor of safety of 1.5 included) = 0.35

Provide temporary shoring for tops of walls if backfill is placed prior to the supporting structure being constructed. Supporting structure is the floor framing and sheathing completely installed and attached to perpendicular walls.

PILES AND PIERS GENERAL CRITERIA
Pile or pier lengths indicated on drawings are estimated; actual length shall be determined in field by Geotechnical Inspector. For bidding purposes, the contractor shall provide an add/deduct value per foot of pile/pier length. This value shall be applied to variations in actual lengths as compared to estimated lengths.

The contractor shall determine the location of all adjacent underground utilities prior to drilling or driving operations. Hole drilling shall be performed without loss of ground and without endangering previously installed piles. Refer to the Geotechnical Report for recommended drilling or driving procedure. Alternate piles shall be placed and completed so that at least 24 hours are allowed for the concrete to set prior to drilling adjacent piers.

Pile or pier types other than those indicated on the drawings may be submitted as a Substitution. Optional piles must be supported on the same soil strata as the piles shown on the drawings. If the configuration of the piles is different from the contract documents, the modification to the pile caps must also be designed by the contractor and submitted with the Substitution. A 2-week minimum time allowance must be made for the engineer to review all optional pile and pile-cap design.

Inspections shall be made by the Geotechnical Inspector per IBC Table 1704.8 or 1704.9.

PIN PILES
Pin piles shall be 3" & 4" diameter Schedule 40 pipe and develop 4/7 tons bearing capacity, respectively.

Piles shall be zinc-plated (galvanized) by the hot-dipped galvanic method (or pre-approved equivalent). Any surface where the coating has been removed or damaged must be brushed and re-coated in clean, dry field conditions with an approved zinc-based anti-corrosion coating.

Pin piles shall be driven to refusal in bearing strata. For 2" pin piles, refusal shall be defined as less than 1" penetration in 60 seconds during continuous driving with a 90 lb jackhammer under the full effort of the operator. For 3" and larger pin piles, refusal shall be defined as less than 1" penetration in 3 cycles of driving with an 850-pound pneumatic hammer mounted on a backhoe. The maximum pile eccentricity shall be 4" unless noted otherwise as 'battered' on the plans for lateral resistance. A minimum of 3% of the piles shall receive an ASTM Standard D-1143 Quick Load Test.

Battered piles shall be battered 1:3 at 6" piles and 1:4 at 4" piles. Battered piles shall have welded splices that develop the full tension capacity of the pipe. Battered piles shall have caps with headed studs or other positive means to anchor the pile into the concrete pile cap for a tension force equal to the design capacity of the pile. Pile placement shall be within a 2" tolerance at the top of the pile.

CONCRETE

CAST-IN-PLACE CONCRETE
Concrete materials shall conform to the following:

Portland cement:	Type 1, ASTM C150
Fly ash (if used):	ASTM C618 class F or C
Slag cement (if used):	ASTM C989
Lightweight aggregates:	lightweight aggregates shall not be used without prior approval of SER and building department
Normal weight aggregates:	ASTM C33
Sand equivalent:	ASTM C33
Water:	Potable per ASTM C94
Air entraining admixtures:	ASTM C260
Chemical admixtures:	ASTM C494
Flowable concrete admixtures:	ASTM C1017

Durability requirements of concrete mixes shall conform to building code. These requirements include water-cementitious material ratios, minimum compressive strengths, air entrainment, type of cement, and maximum chloride ion content.

CONCRETE STRENGTH REQUIREMENTS TABLE

Location	Strength f'c (psi)	Max Agg Size	Max W/C Ratio	Total Air Content	Fly Ash Content	Exposure Categories and Classes			
						F	S	P	C
LEAN MIX SOIL REPLACEMENT UNDER FOUNDATIONS	1,500	SAND	1.5 SACK CEMENT	-	-	F1	S0	P0	C1
FOUNDATIONS, GRADE BEAMS, STEM WALLS	4,500	1"	0.44	4.5%	15-20%	F1	S0	P0	C1
STRUCTURAL SLAB AND GRADE BEAMS	4,000	3/4"	0.38	1%	15-20%	F0	S0	P0	C1
WALLS, COLUMNS, ALL OTHER CONCRETE	4,500	3/4"	0.40	6%	20-30%	F2	S0	P0	C1

CONCRETE MIXTURES
Mixes shall be proportioned to accommodate placement. Slump, W/C ratio, admixtures and aggregate size will be determined by the contractor in accordance with ACI. Mixes shall be approved by one of the following criteria:

- Mix carries continuous approval from City of Seattle.
- Mix design is submitted in accordance with ACI 318 Section 5.3.
- Mix design is submitted in accordance with ACI 318 Section 5.4.

All concrete, including slab on grade, shall contain an acceptable water-reducing admixture conforming to ASTM C494 and be used in strict accordance with the manufacturer's recommendations.

All concrete which is exposed to freezing and thawing in a moist condition or exposed to deicing chemicals shall contain an air entraining agent, conforming to ASTM C260. Total air content shall be adjusted per ACI 318 for mix designs with smaller nominal aggregate size. The amount of entrained air shall be measured at the discharge end of the placing nozzle. Entrained air shall be as noted ± 1.0% by volume. Air-entrainment shall not be used at slabs that will receive a smooth, dense, hard-troweled finish.

Trucks hauling plant-mixed concrete shall arrive on-site with a field ticket indicating the maximum gallons of water that can be added at the site not to exceed the total water content in the approved mix design.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing. Concrete shall be thoroughly consolidated by suitable means during placement and shall be thoroughly worked around reinforcement, embedded items, and into corners of forms.

CONCRETE (cont'd)

FORMWORK AND ACCESSORIES
Concrete construction shall conform to ACI 301 "Specifications for Structural Concrete" and the Building Code, including testing procedures. See specifications and/or architectural documents for formwork requirements. Installation shall adhere to ACI 301. Conduits and pipes of aluminum shall not be embedded in concrete construction.

See architectural drawings for exact locations and dimensions of door and window openings in all concrete walls. See mechanical drawings for size and location of mechanical openings through concrete walls. See architectural drawings for all grooves, notches, chamfers, feature strips, color, texture, and other finish details at all exposed concrete surfaces, both cast-in-place and precast. See structural details for reinforcing around openings.

Contractor shall submit the proposed locations of construction joints to the Architect for acceptance before starting construction. Erico Lenton Formsaver (ER-3967) may be used as an alternate to the roughened joint. All construction, control, and isolation joints for slabs on ground shall be in accordance with the typical details.

Concrete accessories and embedded items shall be coordinated with Architectural and all other Contract Documents and suppliers' drawings before placing concrete. Wet-setting of anchor rods, reinforcing, hardware, etc. is not allowed in concrete. Anchor rods, reinforcing, hardware, etc. shall be firmly tied in place prior to concrete placement.

Refer to Architectural documents for waterstops, damp proofing, and soil retaining wall drainage requirements at concrete and at concrete joints (construction joints, slab to wall joints, curb to slab joints, etc).

RIGID FOAM
Styrofoam or Rigid Foam specified on the drawings for filling voids shall have minimum compressive strength of 40 psi and be manufactured by the Dow Chemical Company (NER-699) or approved equal and shall be installed in strict accordance with the manufacturer's recommendations.

CURING AND FINISHES
Protect and cure freshly placed concrete per ACI 305 in hot conditions, ACI 306 in cold conditions, and ACI 308 "standard specification for curing concrete". All exposed edges and corners shall have 3/4" chamfer, UNO. Concrete flatwork shall be sloped to provide positive drainage. Coordinate finish with architectural contract documents.

At the time of application of finish materials or special treatment to concrete, moisture content of concrete shall conform to requirements in finish material specifications. Where vapor sensitive coverings are to be placed on slabs on grade, conform strictly to slab covering manufacturer's recommendations regarding vapor retarder and granular fill requirements below the slab.

CONCRETE CRACK MAINTENANCE
Cracking occurs in concrete structures due to inherent shrinkage, creep, and the restraining effects of walls and other structural elements. Most cracking due to shrinkage and creep will likely occur over the first two years of the life of the structure; further concrete movement due to variations in temperature may persist. Cracks that result in water penetration will need to be repaired to protect reinforcing. Other cracking may be repaired at the owner's discretion for aesthetical reasons or performance of applied finishes. Prior to repairing cracks, a structural engineer should be consulted to provide direction on which cracks to repair and on whether observed cracks may affect the strength of the structure.

GROUTING STEEL BASE PLATES
Nonshrink grout for base plates shall be an approved nonshrink cementitious grout containing natural aggregates delivered to the job site in factory prepackaged containers requiring only the addition of water. The minimum 28-day compressive strength shall be at least 6000 psi, UNO. Grouts shall meet ASTM C1107. Approved grouts include: Master Builders' "Master Flow 713", Sika Corporation's "Sikagrout 212", Burke Company's "Nonferrous Nonshrink Grout", W.R. Meadows CG-86 Construction Grade Grout, or approved equal. Grout shall be mixed, applied, and cured strictly in accordance with the manufacturer's published recommendations.

MASONRY

Veneer CMU base only, similar to existing.

CONCRETE MASONRY UNIT WALLS
Concrete masonry unit walls shall be constructed of normal weight units, conforming to ASTM C90, laid in a running bond.

Mortar shall be Type S per IBC 2103.9 Grout shall conform to IBC 2103.13 and ASTM C476 requirements and attain a minimum compressive strength of 2,000 psi at 28 days, design F'm = 1,500 psi. Full stresses are required.

Strength shall be verified by prism testing in accordance with IBC Section 2105.2. Masonry units shall be chosen in accordance with IBC Table 2105.2.2.1.2.

All preparation and placing of masonry shall conform to Section 2104 of the IBC.

GLASS BLOCKS
Glass blocks shall be PPG (or approved) and shall conform to IBC 2110.

DELETE. No new glass blcoks

Mortar shall be Type "M". Mortar joint shall have a maximum thickness of 3/8" and a minimum width of 3".

REINFORCEMENT IN CONCRETE AND MASONRY

REINFORCING STEEL
Reinforcing steel shall conform to ASTM A615 (including supplement S1), Grade 60, Fy = 60,000 psi, except any bars specifically so noted on the drawings shall be Grade 40, Fy = 40,000 psi.

WELDED WIRE REINFORCING
Welded Wire Reinforcing (WWR) shall conform to ASTM A185. Lap splice adjacent mats of welded wire fabric a minimum of 8" at sides and ends. In equipment pads, use minimum WWR 6x6-W2.1xW2.1, UNO.

FIBROUS REINFORCEMENT
Polypropylene fibrous reinforcement shall be used where noted. With the architect's approval it may also be used at the contractor's discretion. Fibrous reinforcing shall not replace any steel reinforcing shown on contract documents. If used, the mix design submittals shall include product data and manufacturer's instructions. Acceptable products are Fiber mesh by Propex Concrete Systems Corp (ESR-1165), Grace Fibers by W. R. Grace & Co. (NER-418), or approved equal.

DEFORMED BAR ANCHORS (DBA)
Anchors shall be Nelson deformed bar anchors (ER 5217) or approved equal. Anchors shall be shop welded to plates or steel members by automatic end welding equipment. 1/2" diameter bars shall have 24" length, unless noted otherwise.

PROCEDURES
Reinforcing steel shall be detailed (including hooks and bends) in accordance with ACI 315 "Details and Detailing of Concrete Reinforcement". Lap all reinforcement in accordance with "The Reinforcing Splice and Development Length Schedule" on these documents. If table is not provided, lap all reinforcing by 40 bar diameters. Provide corner bars at all wall and footing intersections.

Reinforcing steel shall be adequately supported to prevent displacement during concrete and grout placement. Bars shall be bent cold.

Bars partially embedded in concrete shall not be field bent, unless specifically so detailed or approved by the SER.

Mechanical connection of continuous reinforcing bar shall be used where shown on documents and may be substituted for lap splices if approved by the SER. Such connections shall develop at least 125% of the specified yield strength of the bar. Acceptable connectors shall be the Erico Lenton Plus Standard Coupler (ER-3967), Dayton Superior Bar-Lock L Series (ER-5064), or approved equal.

Welding or tack welding of reinforcing bars to other bars or to plates, angles, etc, is prohibited, except where specifically approved by the SER. Where welding is approved, it shall be done by AWS/WABO-certified welders using E9018 or approved electrodes. Welding procedures shall conform to the requirements of AWS D1.4. Any Grade 60 reinforcing bars indicated on drawings to be welded shall conform to ASTM A706. Reinforcement complying with ASTM A615 (S1) may be welded only if material property reports indicating conformance with welding procedures specified in AWS D1.4 are submitted. Welding within 4" of cold bends in reinforcing steel is not permitted.

ANCHORAGE

Post-installed anchors shall not be installed without prior approval of engineer of record unless noted otherwise on the plans.

ADHESIVE ANCHORS
Adhesive anchors (threaded rods or reinforcing bar) specified on the drawings shall be installed using "HIT-HY 200" as manufactured by the Hilti Corporation. Install in strict accordance with ICC Report No. ESR-3187. Rods shall be ASTM F1554 Gr.55, unless noted otherwise. Special inspection of installation is required.

EXPANSION ANCHORS
Expansion anchors into concrete and concrete masonry units shall be "Kwik Bolt TZ" as manufactured by the Hilti Corporation. Install in strict accordance with ICC Report Number ESR-1917, including minimum embedment requirements. At concrete masonry or brick masonry applications, bolts shall be installed into fully-grouted cells. Substitutes proposed by contractor shall be submitted for review with ICC Reports indicating equivalent or greater load capacities. Special inspection of installation is required.

SCREW ANCHORS
Post-installed mechanical anchors into concrete and concrete masonry units shall be "Titen HD" screw anchors as manufactured by the Simpson Strong-Tie Company. Install in strict accordance with ICC Report Number ESR-2713 (into concrete) or ESR-1056 (into masonry), including minimum embedment requirements. At concrete masonry or brick masonry applications, bolts shall be installed into fully-grouted cells. Titen HD screw anchors are approved for dry interior applications only. Special inspection is required for the installation of all screw anchors resisting tension.

ANCHOR TIES IN MASONRY VENEER
Masonry veneer shall be anchored to backing walls per Section 1405.5 of the IBC with 3/4" x 16 gauge galvanized sheet metal or W1.7 minimum wire anchors. Anchor ties shall be spaced so as to support not more than 2.0 square feet of wall area in seismic design Category C and 1.5 square feet in seismic design Category D, E and F. Support spacing shall not exceed 24"oc horizontally. In seismic design Category E or F, ties shall have a lip or hook on the extended leg that will engage or enclose a W1.7 minimum reinforcement wire. In seismic design Category D, E, and F, provide joint reinforcement of minimum W1.7 size with spacing not exceeding 18"oc vertically. Joint reinforcement shall be continuous with butt splices between ties permitted.

DRIVE PINS
Drive pins and other powder-actuated fasteners shall be low velocity type "Series X-U" (0.157" Ø, unless noted otherwise) as manufactured by the Hilti Corporation, or an approved equivalent in strength and embedment. Install in strict accordance with ICC Report Number ESR-2269. Minimum embedment in concrete shall be 1", unless noted otherwise. Maintain at least 3" to nearest concrete edge.

STRUCTURAL STEEL

REFERENCE STANDARDS
Steel construction shall conform to the latest editions of the AISC Specifications and Codes. "Specification for Structural Steel Buildings" ANSI/AISC 360 (latest edition), "Specification for Structural Joints Using ASTM A-325 or A-490 Bolts" AISC 348 (latest edition) and "Code of Standard Practice for Steel Buildings and Bridges" AISC 303 (latest edition) amended by the deletion of paragraph 4.4.1.

FABRICATORS
Fabricators for structural steel must have a quality assurance program in place. The quality assurance program must meet the requirements of one of the following methods:

- Participation in the AISC quality certification program.
- Meeting the requirements of AISC seismic provisions for structural steel buildings, appendix Q and submitting plan documentation to the authority having jurisdiction, the engineer of record, and the owner or owner's designee. Where applicable the requirements set forth in the quality assurance requirements for wind and seismic under the criteria section of the general notes should be included in the selected method.

FINISHING
The terms finish, finish column, finishing, milled, milled surface or milling are intended to include surfaces which have been accurately sawed or finished to a true plane as defined by AISC.

Grind surface value equal to or less than 1,000 as defined by ANSI B46.2 (4-inch and thinner).

STEEL COATINGS AND PROTECTION
Coatings and protection (weather, fire, corrosion, etc.) shall be as specified by the architect. Galvanized steel members shall conform to ASTM A-123 and galvanized steel hardware shall conform to ASTM A-153. Guidelines outlined in ASTM A-384 shall be followed in order to safeguard against warping and distortion during hot-dip galvanizing of steel assemblies. Steel anchors and ties embedded in concrete and masonry shall be left unpainted.

CORROSION CONTROL
All steel noted as galvanized and any steel in ground contact or within 6-inches of grade shall be zinc-plated (galvanized) by the hot-dipped galvanic method (or pre-approved equivalent), except where such steel is to be fully encased in concrete. Furthermore, any surface where the coating has been removed or damaged must be brushed and re-coated in clean, dry field conditions with an approved zinc-based anti-corrosion coating except where such area is to be encased in concrete.

SHOP PAINTING
All steel to be shop primed. Steel fire proofed or encased with concrete need not be painted. All other steel shall be given one coat of shop paint, in accordance with Section 1.24 of the AISC "Specification" and Section 6.5 of the AISC "Code", unless noted otherwise. The surface preparation of the structural steel prior to painting shall be in accordance with the specific paint manufacturer's published recommendations. Structural joints and faying surfaces which are to be connected by means of welds or bolts shall not be painted until all welds and bolts are installed, inspected and approved. Paint shall be held back 3" from the faying surface or the joint to be welded.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS)
Steel members exposed to view in the final building shall meet the requirements of Section 10 of the AISC Code of Standard Practice. This criteria does not apply to steel members in mechanical, electrical and storage rooms.

STRUCTURAL STEEL MEMBERS
Structural Steel shall conform to the following requirements (unless otherwise shown on plans):

STRUCTURAL STEEL MEMBER SPECIFICATIONS TABLE

Type of Member	ASTM Specification	Fy
ROLLED WIDE-FLANGE SHAPES	A992	50 ksi
SQUARE & RECTANGULAR HSS SECTIONS	A500, GRADE B	46 ksi
ROUND HSS SECTIONS	A500, GRADE B	42 ksi
STEEL PIPES	A53, GRADE B	35 ksi
PLATES, CHANNELS, ANGLES	A36, GRADE 36	36 ksi
THREADED RODS	A36	36 ksi
ANCHOR RODS (HOOKED, HEADED, THREADED & NUTTED)	F1554, GRADE 36 (UNO)	36 ksi
COMMON BOLTS	A307, GRADE A	-
STRUCTURAL FRAMING BOLTS	A325, TYPE 1	-
TWIST-OFF TYPE TENSION-CONTROL BOLTS	F1852 (A325, TYPE 1)	-
HEX NUTS	A563	-
FLAT CIRCULAR WASHERS	F436	-
SQUARE OR RECTANGULAR BEVELED WASHERS	F436	-
COMPRESSIBLE-WASHER TYPE DIRECT-TENSION INDICATORS	F959	-

STEEL FRAMING
The contractor shall be responsible for all erection aids and joint preparations that include, but are not limited to: erection angles, lift holes, and other aids; welding procedures; required root openings; root face dimensions; groove angles; backing bars; copes; surface roughness values; and tapers of unequal parts.

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Project Title:
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Structural General Notes

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STRUCTURAL STEEL (cont'd)

WELDING
All welding shall be in conformance with AISC and AWS standard and shall be performed by AWS/WABO certified welders in accordance with AWS D1.1. Only Prequalified welders, as defined by AWS, shall be used.

Shop drawings shall show all welding with AWS D1.4 symbols. Welds shown on the drawings are the minimum sizes. Increase weld size to AWS minimum sizes, based on plate thickness. Minimum welding shall be 3/16" UNO. All welds shall be made using low-hydrogen electrodes with minimum tensile strength of 70 ksi and a Charpy V-Notch (CVN) toughness of at least 20 foot-pounds at -20° Fahrenheit.

Low hydrogen SMAW electrodes shall be used within 4 hours of opening their hermetically sealed containers, or shall be re-dried per AWS D1.1. Electrodes shall be re-dried no more than one time, and electrodes that have been wet shall not be used.

Welding procedures shall be submitted to the owner's testing agency for review prior to commencement of fabrication or erection. All complete-penetration welds shall be ultrasonically tested upon completion of the connection except plate less than or equal to 1/4" thick shall be magnetic particle tested. Complete penetration welds on plates less than or equal to 1/4" shall be magnetic particle tested. Reduction in testing shall be made in accordance with the Building Code and with approval from the SER.

Field welds shown are engineer's recommendation. Contractor is responsible for actual welds used to support specific means and methods.

WELDING REINFORCING BARS
Welding of grade 60 reinforcing bars (if required) shall be performed using low hydrogen electrodes and A-706 reinforcement. Welding of grade 40 reinforcing bars (if required) shall be performed using E70XX electrodes. Welding within 4" of cold bends in reinforcing steel is not permitted. See reinforcing notes for material requirements of welded bars.

WELDING GALVANIZED STEEL
Welding of galvanized steel shall conform to AWS specification D-19.0. Welded areas of galvanized steel shall be touched up in conformance with ASTM A-780.

BOLTS
All A-325N connection bolts, not part of the Seismic Load Resisting System (SLRS), need only be tightened to snug-tight (ST) conditions, defined as the tightness that exists when all plies in a joint are in firm contact. This may be attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. All bolt holes shall be standard size, unless noted otherwise. All ASTM A-307 bolts shall be provided with lock washers under nuts or self-locking nuts.

Connections, joints and fasteners that are part of the Seismic Load Resisting System (SLRS) shall be pretensioned (PT) high-strength bolts and shall meet the requirements for slip-critical (SC) joints, UNO. All faying surfaces shall be prepared as required for class A or better slip-critical joints. All high-strength bolts shall be installed, tightened and inspected in accordance with the AISC 348 specification for structural joints using ASTM A-325 or A-490 bolts. Slip-critical (SC) connections shall use compressible-washer-type direct tension indicators or twist-off-type tension-control bolts.

WOOD

Confirm and coordinate all exposed Architectural Grade beams and Structural Composite Lumber

MATERIAL CRITERIA
Framing lumber shall be kiln dried or MC-19 (unless more stringent criteria are required in these drawings) and graded and marked in conformance with the latest WCLIB "Standard Grading Rules Coast Lumber". Furnish to the following minimum standards:

4x beams & posts, 6x posts	DF #2
4x treated beams & posts, 6x treated posts	HF kdat #2
2x joists, rafters, built-up beams, headers	HF #2
2x, 3x flatwise & edgewise blocking	HF standard
3x nailers on steel beams	HF #2
2x4, 2x6 studs	HF stud
3x studs	HF #2
2x4 plates	HF kd15 standard
2x6 plates	HF kd15 #2
2x, 3x, 4x treated plates/ledgers	HF kdat #2
tongue and groove decking (non-visual)	HF utility / #3 commercial dex
tongue and groove decking (exposed)	HF/DF #2
tongue and groove decking (upper end exposed)	HF/DF select dex

MOISTURE CONTENT AND CARE OF MATERIAL DURING CONSTRUCTION
All 2x studs and plates shall be kiln dried. The Contractor shall take measures to minimize exposure of sawn lumber and engineered wood products to moisture during construction. Excessive changes in moisture content during construction may result in swelling and shrinkage of a single story level in the magnitude of 1/2". This may create problems where multi-story wood construction joins multi-story concrete wall construction. All wood framed construction shall have maximum moisture content not to exceed 10% at time of fur-out, which shall be verified by a testing agency hired by the Owner. These test results shall be submitted to the Architect and Structural Engineer of Record for review prior to installation and interior drywall installation is performed. In addition, pre-loading the entire wood building with the interior drywall while the building is being dried out is recommended before wood ledgers are attached to concrete shear walls.

Wood joists and beams supporting topping slabs or subjected to construction loading shall have a maximum live load deflection of l/600. The contractor shall be responsible for ensuring that the moisture content of wood members supporting concrete or construction loads is, and remains, at 10% or less. Wood framing with higher moisture contents before, or during, the placement of topping slabs or subjected to construction loading are subject to excessive creep. Contractor to provide means to maintain the moisture content as required to prevent creep.

VERTICAL SHRINKAGE
Allow for 1/2" of wood shrinkage/compression at each level (including foundation). Values are cumulative for the height of the building. Building systems such as mechanical, electrical, plumbing, fire sprinklers, etc. shall have flexible components that account for the potential wood shrinkage/compression. Architectural finishes shall also account for the potential wood shrinkage/compression.

TREATED WOOD
All wood framing in direct contact with concrete or masonry, exposed to weather, or that rest on exterior foundation walls and are located within 8" of earth, shall be pressure-treated with an approved preservative per IBC section 2303.1.8. Cut or drilled sections of treated material shall be treated with an approved preservative per IBC section 2303.1.8. See IBC section 2304.11 for additional requirements.

GLU-LAMINATED MATERIAL
Glu laminated members shall be fabricated in conformance with AITC 117 and APA-EWS Y117, Stress Class 24F-1.8E. Each member shall bear an AITC identification mark and shall be accompanied by an AITC certificate of conformance. All simple span beams shall be douglas fir combination 24F-V4, fb = 2,400 psi, fv =265 psi and all cantilevered beams and columns shall be Douglas fir combination 24F-V8, fb = 2,400 psi, fv = 265 psi unless noted otherwise. Camber all simple span glu laminated beams to 3,500' radius or zero camber, unless shown otherwise on the plans.

WOOD (cont'd)

STRUCTURAL COMPOSITE LUMBER
Manufactured LVL lumber shall be manufactured under a process approved by the national research board. Each piece shall bear a stamp or stamps noting the name and plant number of the manufacturer, the grade, the national research board number, and the quality control agency. All LVL lumber shall be manufactured in accordance ICC Report ESR-1387. LVL lumber shall be manufactured using veneer glued with a waterproof the requirements of ASTM D2559 with all grain parallel with the length of the member. The members shall have the following minimum properties:

MINIMUM DESIGN PROPERTIES FOR COMPOSITE LUMBER.

Grade	Orientation	E (ksi)	Fb (psi)	Fcll (psi)	Fv (psi)
2.0E LVL	BEAM	2,000	2,900	2,635	285
2.0E LVL	PLANK	2,000	3,430	2,635	190

Design shown on plans is based on RedLam products manufactured by the RedBuilt Corporation. Alternate manufacturers may be used subject to review and approval by the Architect and Structural Engineer of Record, alternate joist hangers and other hardware may be substituted for items shown provided they have ICC approval for equal or greater load capacities. All joist hangers and other hardware shall be compatible in size with members provided.

PLYWOOD WEB JOISTS
Prefabricated plywood web joist design shown on plans is based on Trus-Joist products manufactured by the Weyerhaeuser Corporation. Alternate plywood web joist manufacturers may be used provided they conform with the ICC evaluation service reports ESR-1387 and ESR-1153 and are subject to review and approval by the Architect and Structural Engineer of Record. Alternate plywood web joists must have equivalent section properties and allowable stresses to those previously specified to be considered. Alternate joist hangers and other hardware may be substituted for items shown provided they have ICC approval for equal or greater load capacities. All joist hangers and other hardware shall be compatible in size with plywood web joist provided. All necessary bridging, blocking, blocking panels, stiffeners, etc., shall be detailed and furnished by the manufacturer. All permanent and temporary bridging shall be installed in conformance with manufacturer's specifications. The following deflection criteria shall be maintained with all alternates.

- Floor live load deflections shall be limited to span/480 (span/360 at 100 psf live load).
- Roof total load deflections shall be limited to span/240.
- Specified plywood web joists at floors have been designed for a minimum TJ-Pro rating of 40 in addition to the maximum allowable deflections noted above.

Alternative framing members at shear wall rim / blocking locations may be used, provided ICC reports or manufacturer's test data are submitted. The submitted data shall verify the ability of the alternative members to provide equivalent or greater shear capacities using the specified nail and anchor sizes and spacing.

No OSB. Plywood only.

WOOD STRUCTURAL PANELS
Wood structural panels shall be APA rated sheathing. Plywood shall be Structural I, exterior glue, exposure 1 durability classification, in conformance with USDOC PS 1 or PS 2, ASTM D 5457 and IBC 2304.7 and table 2304.7 (2).

Oriented strand board (OSB), shall be in accordance with USDOC PS 2, and of equivalent thickness, exposure rating and span rating and may be used in lieu of plywood pending OSB substitution approval by Architect.

FASTENERS
Fasteners shall conform to the following requirements, unless noted otherwise. Splitting shall be avoided at all wood fasteners:

Bolts	NDS section 11.1.3
Lag screws	NDS section 11.1.4
Wood screws	NDS section 11.1.5
Nails	NDS section 11.1.6
Wood-to-wood connection bolts	ASTM A307
Steel-to-wood connection bolts	ASTM A307
Anchor rods (7" embed min)	ASTM F1554 grade 36 with threaded ends and welded nut at end (provide higher grade at holdown rods where indicated)

Thru-bolt and anchor rod holes shall be at least 1/32" but no more than 1/16" larger than bolt/rod diameter. Clearance holes for lag screw shanks shall have the same diameter as the lag shank and the same penetration depth as the length of the unthreaded shank. Lead holes for threaded portion of lag screws shall have a diameter of 55 to 60% of lag screw shank diameter and shall extend the length of the threaded portion of the lag screw.

Fasteners exposed to earth, weather or located in pressure preservative or fire retardant treated wood shall comply with the criteria listed in the "Metal Products in Contact with Treated Lumber" section.

FRAMING CONNECTORS
Timber connectors called out by letters and numbers shall be "Strong-Tie" by the Simpson Strong-Tie Company. Equivalent devices by other manufacturers may be substituted, provided they have ICBO approval for equal or greater load capacities.

All connectors shall be installed in accordance with the manufacturer's recommendations. Provide number and size of fasteners as specified by manufacturer. All shims shall be seasoned and dried and the same grade (minimum) as members connected. All nails shall be as called out in the "Fasteners" section of this sheet, unless noted otherwise. All bolts in wood members shall conform to ASTM A307. Provide washers under the heads and nuts of all bolts and lag screws bearing on wood. Where connector straps connect two members, place one-half of the nails or bolts in each member.

Review all exposed brackets and fasteners for type and finish.

METAL PRODUCTS IN CONTACT WITH TREATED LUMBER
Simpson hardware in contact with ACQ, CA, or CBA pressure-preservative treated wood shall have a Zmax finish (G185 HDG per ASTM A653) or shall be post hot-dip galvanized (per ASTM A123 for connectors and ASTM A153 for fasteners) unless noted otherwise. Exception: type 304 or 316 stainless steel connectors and fasteners are required for the following applications:

- ACQ, CA, or CBA treatments with ammonia where members are used in exterior applications.
- All ACZA treatments
- Retention levels greater than 0.40 pcf for ACQ, 0.41 pcf for CBA-A, or 0.21 pcf for CA-B treatments.

Stainless steel connectors require matching stainless steel fasteners. Zmax and post hot-dip galvanized connectors require fasteners galvanized per ASTM A153. Thru-bolts and anchor rods used in dry conditions shall be permitted to be of mechanically deposited zinc coated steel with coating weights in accordance with ASTM B 695, class 55 minimum. See IBC section 2304.9.5.1 and "Framing Connectors" section on this sheet for additional requirements.

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Sheet Contents:
Structural General Notes

Revisions:

Number	Description	Date

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Job No.: 15-175-01

Sheet No.: S0.3

Confirm with Civil.

FRAMING AND FOUNDATION PLAN NOTES

1. GENERAL

1.1. ELEVATION AT TOP OF SLAB SHALL BE XX'-X", UNO.
ELEVATION AT TOP OF FOOTING SHALL BE XX'-X" BELOW TOP OF SLAB, UNO.

(-X.X) INDICATES ELEVATION AT TOP OF FOOTING, MEASURED IN FEET.

FOOTING ELEVATIONS SHOWN ARE FOR CONTRACTOR CONVENIENCE AND BIDDING ONLY. FINAL ELEVATIONS SHALL BE DETERMINED BY ON-SITE VERIFICATION BY SOILS ENGINEER, BUT SHALL NOT BE SHALLOWER THAN THOSE SHOWN ON THIS PLAN.
REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

1.2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

1.3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ALL MECHANICAL EQUIPMENT.

1.4. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

1.5. EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR.
WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

1.6. WHEREVER NEW CONCRETE ABUTS EXISTING CONCRETE, ADD DOWELS TO MATCH REINFORCEMENT IN NEW CONSTRUCTION.
LAP DOWELS WITH NEW REINFORCEMENT PER TYPICAL LAP SPLICE TABLE AND EMBED INTO EXISTING CONCRETE WITH EPOXY GROUT PER STRUCTURAL GENERAL NOTES.
FOR BARS #5 AND SMALLER: EMBED 6" MIN; FOR BARS #6 AND LARGER: EMBED 9" MIN.

1.7. ALL MUDSILLS AND POSTS WITHIN 6" OF FINISH GRADE OR 1" OF CONCRETE SHALL BE PRESSURE TREATED.
ALL BEAMS WITHIN 12" OF EXPOSED EARTH SHALL BE PRESSURE TREATED.
ALL JOISTS WITHIN 18" OF EXPOSED EARTH SHALL BE PRESSURE TREATED.

2. PILES AND GRADE BEAMS

2.1. LOCATE PILES AS INDICATED ON PLAN OR SPACED EQUALLY.

PROVIDE 4"Ø SCHEDULE 40 PIN PILE WITH MINIMUM CAPACITY 7 TONS AT INTERIOR.

PROVIDE 3"Ø SCHEDULE 40 PIN PILE WITH MINIMUM CAPACITY 4 TONS AT EXTERIOR.

REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

2.2. REFER TO TYPICAL GRADE BEAM SCHEDULE FOR SIZES AND REINFORCING IN GRADE BEAMS.
REFER TO TYPICAL GRADE BEAM DETAILS FOR REQUIREMENTS AT GRADE BEAM CORNERS AND INTERSECTIONS.

3. FOUNDATIONS

3.1. EXCAVATE, BACKFILL, AND PREPARE SOILS AS REQUIRED PER STRUCTURAL GENERAL NOTES AND GEOTECHNICAL REPORT.

3.2. REFER TO MECHANICAL AND CIVIL DRAWINGS FOR LOCATIONS OF ALL UNDERSLAB PIPING.
FOOTINGS MAY BE LOWERED TO AVOID CONFLICTS WITH PIPING.

3.3. REFER TO FOOTING SCHEDULE FOR SIZES AND REINFORCEMENT AT ALL COLUMN FOOTINGS.

3.4. STEP FOOTINGS AS REQUIRED PER TYPICAL STEPPED FOOTING DETAIL.

5.5. REFER TO CONCRETE WALL REINFORCING TABLE FOR SIZES AND SPACING OF REINFORCEMENT IN ALL CONCRETE FOUNDATION WALLS, UNO.

4. SLABS

4.1. SEE PLANS AND DETAILS FOR SLAN ON GRADE THICKNESS AND REINFORCING.

4.2. PROVIDE VAPOR BARRIER AND BASE COURSE BELOW SLAB AT INTERIOR SPACES PER GEOTECH REPORT.

4.3. PROVIDE CONTROL OR CONSTRUCTION JOINTS ON ALL COLUMN LINES, AT ALL RE-ENTRANT CORNERS, AND AT A MAXIMUM SPACING OF 30x SLAB THICKNESS.
PLACE JOINTS IN A MANNER THAT DIVIDES THE SLAB INTO RECTANGULAR AREAS 400 SQUARE FEET OR LESS. AREAS SHALL BE APPROXIMATELY SQUARE AND HAVE NO ACUTE ANGLES.
ALL JOINT LOCATIONS MUST BE APPROVED BY THE ARCHITECT PRIOR TO CONSTRUCTION.
REFER TO TYPICAL SLAB JOINT DETAIL.

4.4. TYPICAL THICKENED SLAB EDGES SHALL BE 8" WIDE AND 8" DEEP WITH (1) #4 CONTINUOUS AND #4 x 3'-0" HOOKED BARS @ 24" OC.

5. WALLS AND COLUMNS ABOVE

5.1. TYPICAL MUDSILLS SHALL BE TREATED 2x6 HF#2.
ATTACH MUDSILLS TO FOUNDATION WITH 5/8"Ø ANCHOR BOLTS @ 48" OC WITH 3"x3"x1/4" WASHERS (DIAGONAL SLOTTED HOLES IN WASHER ARE PERMITTED). EMBED ALL ANCHOR BOLTS 7" MIN.
REFER TO TYPICAL SHEAR WALL SCHEDULE FOR ANCHOR BOLT PLACEMENT AT SHEAR WALL LOCATIONS.

AT ALL EXISTING STUD WALLS, CONTRACTOR SHALL FIELD VERIFY EXISTENCE OF ANCHOR BOLTS OR ADD AS REQUIRED.

5.2. ALL STUD WALLS ABOVE SHALL USE 2x HF STUDS @ 16" OC, UNO.
REFER TO PLAN ABOVE FOR SIZES OF HEADERS IN WALLS ABOVE.
REFER TO GENERAL FRAMING REQUIREMENTS IN TYPICAL DETAILS.
REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

5.3. ALL EXTERIOR WALLS ABOVE SHALL BE CONSTRUCTED AS SW6 PER TYPICAL SHEAR WALL SCHEDULE, UNO.
BREAKS IN DOUBLE TOP PLATES OF ALL SHEAR WALLS SHALL CONFORM TO TYPICAL TOP PLATE SPLICE DETAIL.

SW INDICATES SHEAR WALL ABOVE PER TYPICAL SHEAR WALL SCHEDULE.

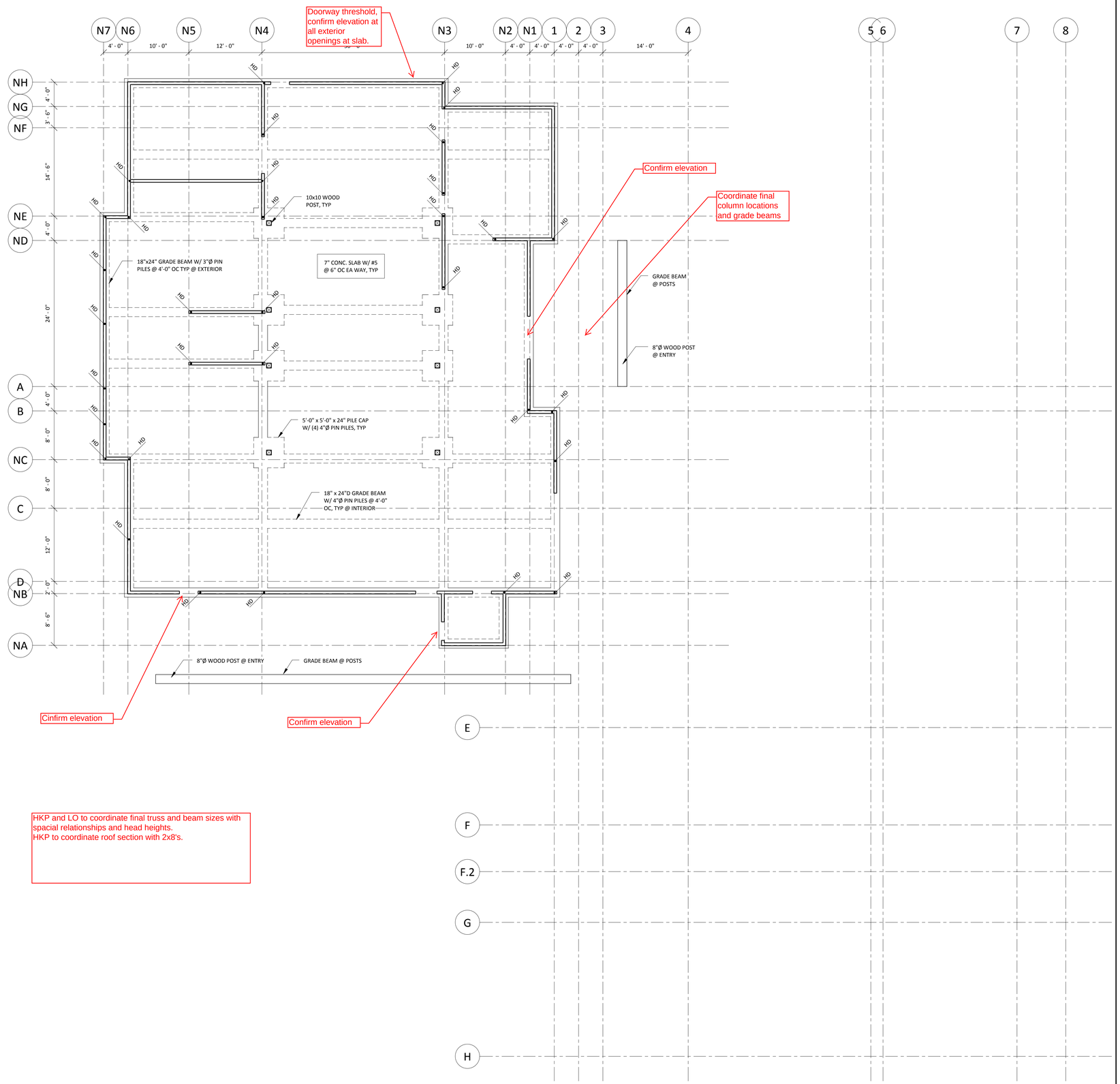
(E)SW INDICATES EXISTING WALL ABOVE TO BE USED AS SHEAR WALL. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PERFORM WORK AS REQUIRED TO ENSURE THAT THE WALL MEETS OR EXCEEDS THE REQUIREMENTS PER TYPICAL SHEAR WALL SCHEDULE.

5.4. ●– HD INDICATES HOLDOWN LOCATED AT END OF SHEAR WALL ABOVE.
REFER TO TYPICAL HOLDOWN SCHEDULE.

INDICATES STRAP LOCATED AT END OF SHEAR WALL ABOVE.
REFER TO TYPICAL STRAP SCHEDULE.

5.5. PROVIDE SOLID BEARING UNDER ALL POINT LOADS ABOVE.
PROVIDE (2) BEARING STUDS UNDER EACH END OF ALL BEAMS ABOVE, UNO.
PROVIDE (1) FULL-HEIGHT (KING) STUD AND (2) BEARING (TRIMMER) STUDS AT EACH END OF ALL HEADERS IN WALLS ABOVE, UNO. REFER TO TYPICAL HEADER DETAIL.
NAIL MULTIPLE STUDS TOGETHER WITH 0.148"Ø NAILS @ 8" OC, STAGGERED.

(X) INDICATES NUMBER OF BEARING STUDS WHERE MORE THAN (2) REQUIRED.



HKP and LO to coordinate final truss and beam sizes with spacial relationships and head heights.
HKP to coordinate roof section with 2x8's.

North

Foundation Plan
Scale: 1/8" = 1'-0"

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S2.1

WOOD FRAMING PLAN NOTES

1. GENERAL

1.1. ELEVATION AT TOP OF SHEATHING SHALL BE XX'-X", UNO.

ELEVATION AT TOP PLATE IN WALL SHALL BE XX'-X", UNO.
SLOPE ALL ROOF FRAMING PER ARCHITECT, UNO.
PROVIDE BUILT-UP SLOPE AND DRAINAGE PER ARCHITECT.

1.2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.

1.3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ALL MECHANICAL EQUIPMENT.

1.4. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

1.5. EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR.
WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

2. WALLS AND COLUMNS BELOW

2.1. REFER TO PLAN BELOW FOR CONSTRUCTION OF ALL WALLS AND COLUMNS BELOW.

2.2. H INDICATES 4x8 DF#2 HEADER IN WALL BELOW.
REFER TO TYPICAL HEADER SUPPORT DETAIL.
REFER TO GENERAL FRAMING REQUIREMENTS IN TYPICAL DETAILS.

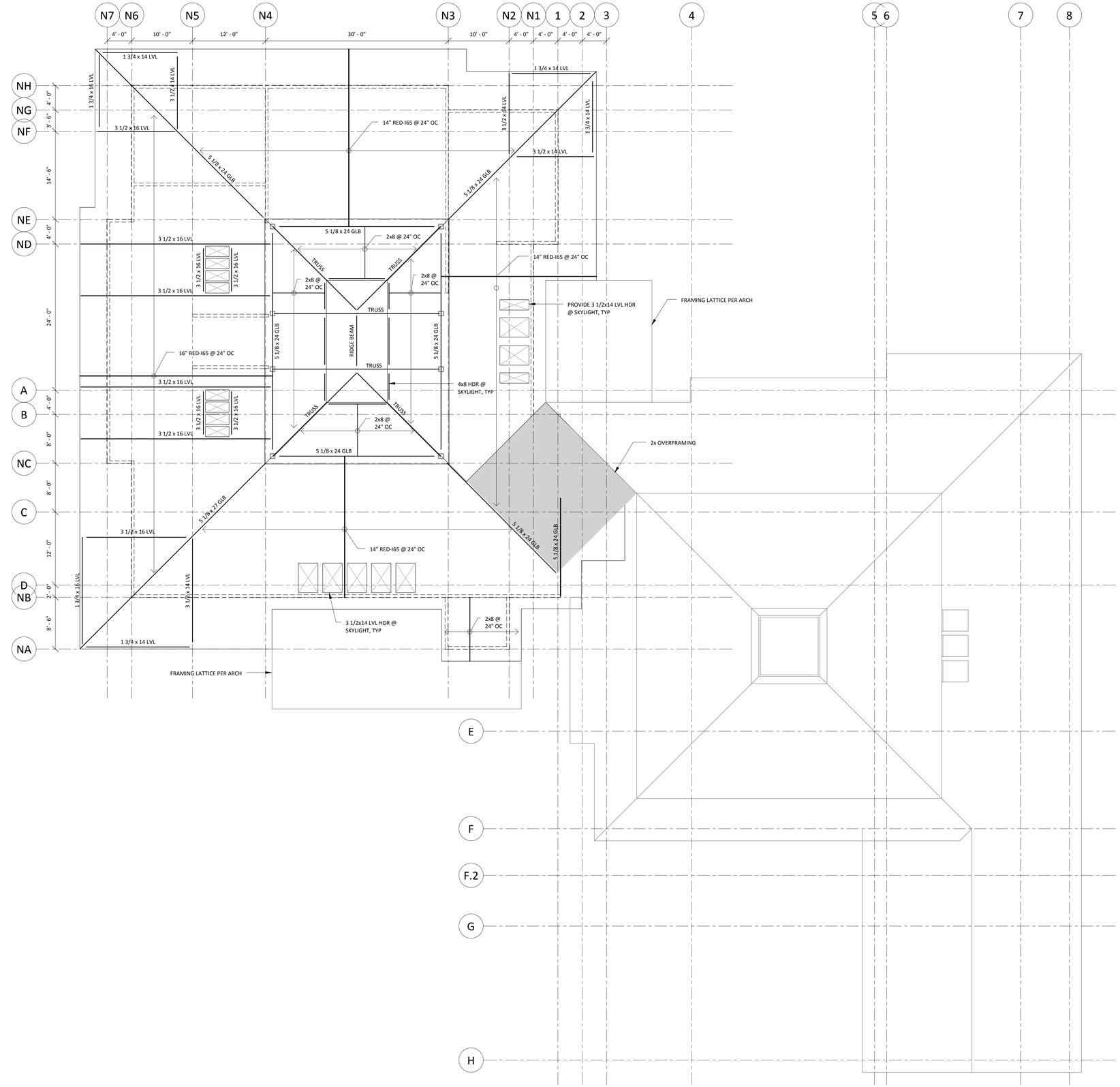
3. ROOFS

3.1. ROOF SHEATHING SHALL BE 19/32" APA RATED SHEATHING (32/16).
NAIL ROOF SHEATHING WITH 0.148" Ø @ 6" OC TO ALL FRAMED PANEL EDGES.
NAIL ROOF SHEATHING WITH 0.148" Ø @ 12" OC TO ALL INTERMEDIATE/FIELD FRAMING.
PLACE LONG DIRECTION OF PLYWOOD PERPENDICULAR TO JOIST SPAN DIRECTION, STAGGER PANEL JOINTS.

3.2. TYPICAL RIM JOISTS SHALL BE MINIMUM 2x HF#2, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS LOCATED ABOVE OR BELOW SHEAR WALLS.

3.3. ALL BEAMS SHALL BE FLUSH AND ALL HEADERS DROPPED, UNO.

3.4. REFER TO FRAMING SCHEDULE FOR SIZES & SPACING OF ALL FLOOR FRAMING MEMBERS.



North

Roof Plan
Scale: 1/8" = 1'-0"

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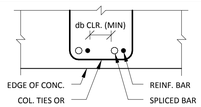
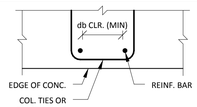
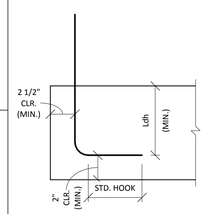
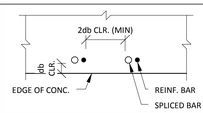
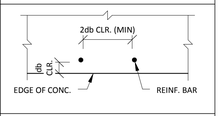
S2.2

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH DIAGRAMS

The following conditions must be met in order to use the Reinforcing Bar Lap Splice & Development Length Tables

	Lap Splices	Straight Bar Development	Hooked Bar Development
CLASS 1: Bars enclosed by column ties or beam stirrups			
CLASS 2: No enclosure			
Where conditions for Classes 1 & 2 are not met	MULTIPLY LENGTHS SHOWN IN SCHEDULE BY 1.5	MULTIPLY LENGTHS SHOWN IN SCHEDULE BY 1.5	

NOTES:
1. ALL BARS SHALL BE DEVELOPED & ALL SPLICES LAPPED PER ACE 318 FOR TENSION, UNO. TABLE MAY BE USED WHERE CONDITIONS MEET CRITERIA NOTED IN DIAGRAMS.
2. TABLES ARE APPLICABLE FOR NORMAL WEIGHT CONCRETE, ONLY.
3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONRETE CAST BELOW THEM. (WALL HORIZONTAL REINFORCEMENT IS EXEMPT)
4. WHERE BARS OF DIFFERENT SIZE ARE LAP SPLICED, SPLICE LENGTH SHALL BE THE LARGER OF:
   - DEVELOPED LENGTH OF LARGER BAR
   - SPLICE LENGTH OF SMALLER BAR
5. WHERE MINIMUM STRAIGHT BAR DEVELOPMENT LENGTH CONNOT BE ACHIEVED, USE WITH STANDARD HOOK.
6. REFER TO CONCRETE COVER TABLE FOR MINIMUM CONCRETE COVER REQUIREMENTS.

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH TABLE

f'c = 4,000 psi **Grade 60 Reinforcing**

Bar Size	Min Lap Splice Lengths (Ls)		Min Straight Bar Development Lengths (Ld)		Min Hooked Bar Embedment Lengths (Ldh)
	Top Bars	Other Bars	Top Bars	Other Bars	
#3	25"	19"	19"	15"	8"
#4	32"	25"	25"	19"	10"
#5	41"	31"	31"	24"	12"
#6	49"	37"	37"	29"	15"
#7	71"	54"	54"	42"	17"
#8	81"	62"	62"	48"	19"
#9	91"	70"	70"	54"	22"
#10	102"	79"	79"	61"	25"
#11	114"	87"	87"	67"	27"

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH TABLE

f'c = 4,500 psi **Grade 60 Reinforcing**

Bar Size	Min Lap Splice Lengths (Ls)		Min Straight Bar Development Lengths (Ld)		Min Hooked Bar Embedment Lengths (Ldh)
	Top Bars	Other Bars	Top Bars	Other Bars	
#3	23"	17"	17"	13"	7"
#4	30"	23"	23"	18"	9"
#5	38"	29"	29"	22"	11"
#6	45"	35"	35"	27"	13"
#7	66"	51"	51"	39"	16"
#8	76"	58"	58"	45"	18"
#9	85"	66"	66"	50"	20"
#10	96"	74"	74"	57"	23"
#11	107"	82"	82"	63"	25"

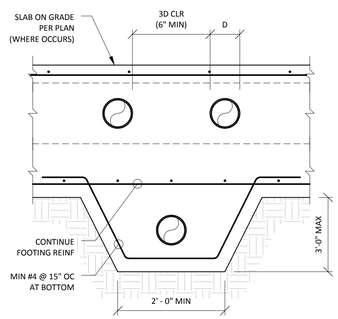
1 Reinforcing Bar Lap Splice & Development Length Tables
Scale: 1 1/2" = 1'-0"

CONCRETE COVER FOR REINFORCING STEEL

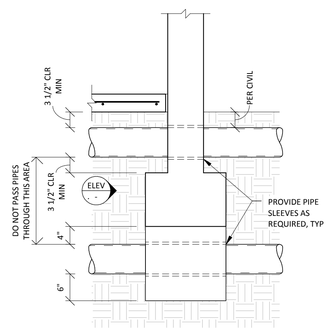
Reinforcing Bar Location	Min Concrete Cover
UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS AND LARGER)	2"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS AND SMALLER)	1 1/2"
COLUMNS AND BEAMS w/ BARS ENCLOSED IN STIRRUPS, TIES OR SPIRAL REINF	1 1/2" (TO PRIMARY REINF)
SLABS, JOISTS AND INTERIOR FACES OF WALLS (#6 BARS AND LARGER)	db + 5/8"
SLABS, JOISTS AND INTERIOR FACES OF WALLS (#5 BARS AND SMALLER)	3/4"
CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER (BARS ENCLOSED IN STIRRUPS/TIES)	1"
CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER (NO STIRRUPS/TIES)	2db
CLEAR SPACING BETWEEN (2) OR MORE PARALLEL LAYERS	1"

NOTES:
1. WHERE A THICKNESS OF COVER REQUIRED FOR FIRE PROTECTION IS GREATER THAN THAT SPECIFIED IN THIS TABLE, THE GREATER THICKNESS SHALL BE USED.

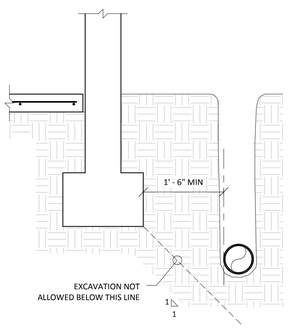
5 Concrete Cover for Reinforcing Steel
Scale: 3/4" = 1'-0"



Elevation

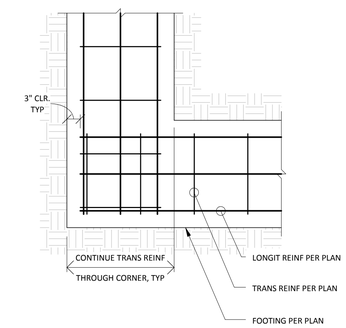


Pipe Locaation at Foundation Wall

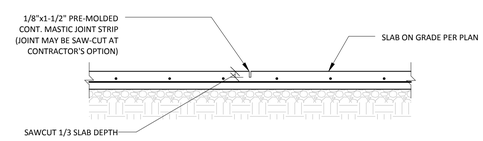


Trench Location

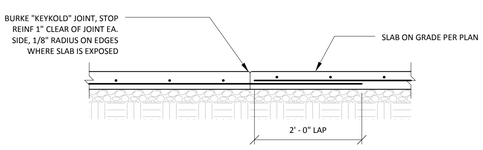
6 Typical Pipe and Trench Locations
Scale: 3/4" = 1'-0"



8 Typical Footing Intersection
Scale: 3/4" = 1'-0"



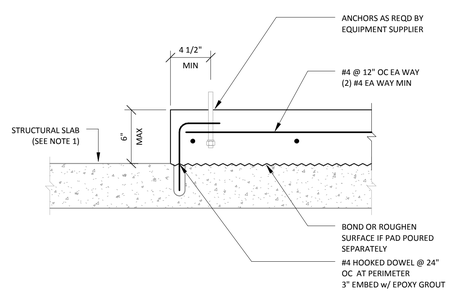
CONTROL JOINT



CONSTRUCTION JOINT

NOTES:
1. SAWED JOINTS SHALL BE MADE AS SOON AS THE JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 24 HOURS OF SLAB PLACEMENT.
2. SAWED JOINTS SHALL BE FITTED WITH SEALENT AS COORDINATED WITH THE ARCHITECT.

9 Typical Joints in Slab on Grade
Scale: 3/4" = 1'-0"



NOTES:
1. STRUCTURAL SLAB MAY CONSIST OF SLAB ON GRADE, FORMED SLAB, OR CONCRETE OVER METAL DECK. METAL DECK MAY SPAN EITHER DIRECTION.

10 Typical Housekeeping Pad
Scale: 1 1/2" = 1'-0"

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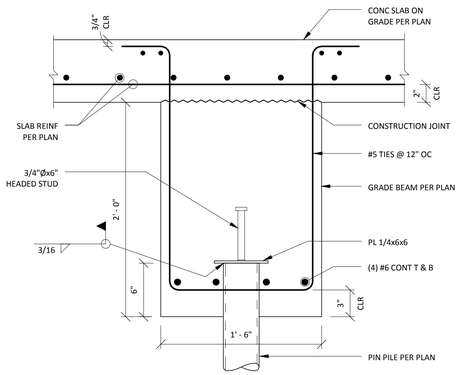
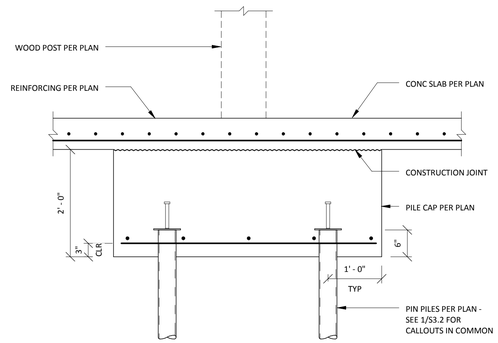
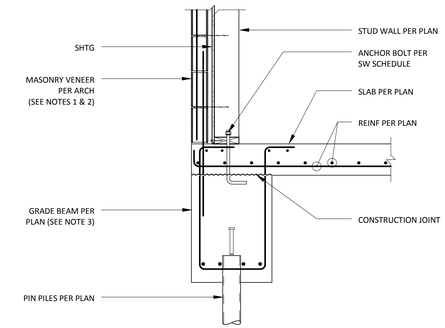


1 Typical Grade Beam
Scale: 1 1/2" = 1'-0"



2 Typical Pile Cap
Scale: 3/4" = 1'-0"



NOTES:
1. ANCHOR MASONRY VENEER TO WALL WITH CTP-16 TIES @ 16" OC IN HORIZONTAL AND VERTICAL DIRECTIONS. PROVIDE MIMINUM EMBEDMENT OF 1 1/2" WITH 5/8" OF MORTAR OR GROUT COVER TO THE OUTSIDE FACE.
2. REINFORCE MASONRY VENEER WITH (1) #5 HORIZONTAL @ 48" OC AND (1) #5 VERTICAL @ 48" OC.
3. SEE 1/S3.2 FOR CALLOUTS IN COMMON.

3 Typical Exterior Grade Beam with Masonry Veneer
Scale: 3/4" = 1'-0"

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500 ROSE STREET
EASTSOUND, WA 98245

Project Title:
ORCAS ISLAND PUBLIC LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
Concrete Details

Revisions:

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15-175-01

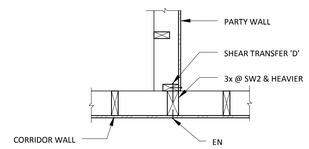
Sheet No.:
S3.2

SHEARWALL SCHEDULE (DOUG FIR FRAMING)

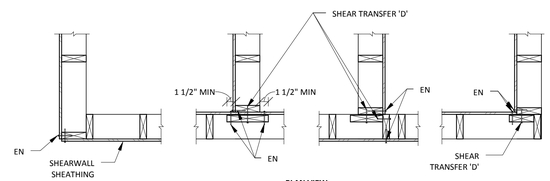
Mark	Sheathing (15/32" Plywood)	Nailing: Edge	Nailing: Field	Framing: Min Stud & Blkg @ Panel Edges	Framing: Sill Plate	Framing: Top Plates	Shear Transfer: (A) Sill Pl to Concrete	Shear Transfer: (B) Rim/Joist/Blkg to Top Pl	Shear Transfer: (C) Sill Pl To Rim/Joist/Blkg	Shear Transfer: (D) Shearwall Intersections	Capacity: Seismic	Capacity: Wind
SW6	(1) SIDE	10d @ 6"	10d @ 12"	2x	2x	(2)2x	5/8"Ø @ 3'-5"	A35 @ 26" or LPT4 @ 24"	16d @ 6" or 1/4x6" SDS SCREWS @ 14"	16d @ 5" OR 1/4x6" SDS SCREW @ 13"	310 PLF	435 PLF
SW4	(1) SIDE	10d @ 4"	10d @ 12"	3x	3x	(2)2x	5/8"Ø @ 2'-3"	A35 @ 18" or LPT4 @ 16"	(2) ROWS 16d @ 7" or 1/4x6" SDS SCREWS @ 9"	16d @ 3" OR 1/4x6" SDS SCREW @ 8"	460 PLF	645 PLF
SW3	(1) SIDE	10d @ 3"	10d @ 12"	3x	3x	(2)2x	5/8"Ø @ 21"	A35 @ 13" or LPT4 @ 12"	(2) ROWS 16d @ 6" or 1/4x6" SDS SCREWS @ 7"	(2) ROWS 16d @ 5" OR 1/4x6" SDS SCREW @ 6"	600 PLF	840 PLF
SW2	(1) SIDE	10d @ 2"	10d @ 12"	3x	3x	(2)2x	5/8"Ø @ 16"	A35 @ 10" or LPT4 @ 9"	(3) ROWS 16d @ 6" or (2) ROWS 1/4x6" SDS SCREWS @ 10"	1/4x6" SDS SCREW @ 5"	770 PLF	1078 PLF
SW3-2	(2) SIDES	10d @ 3"	10d @ 12"	3x	3x	(2)2x	5/8"Ø @ 15"	A35 + LPT4 @ 13"	(4) ROWS 16d @ 6" or (2) ROWS 1/4x6" SDS SCREWS @ 7"	1/4x6" SDS SCREW @ 3"	1200 PLF	1680 PLF
SW2-2	(2) SIDES	10d @ 2"	10d @ 12"	3x	3x	(2)2x	5/8"Ø @ 12"	A35 + LPT4 @ 10"	(3) ROWS 1/4x6" SDS SCREWS @ 8"	1/4x6" SDS SCREW @ 2"	1540 PLF	2155 PLF

SHEAR WALL SCHEDULE NOTES:

1. IN ADDITION TO FRMAING REQUIREMENTS OF 11/S5.01, PROVIDE FRAMING AT SHEARWALLS AS INDICATED
2. SEE SCHEDULE FOR SHEATHING AND NAILING REQUIREMENTS. LUMBER GRADE AS INDICATED OR BETTER. STAGGER PANEL JOINT EA SIDE OF WALL WHERE SHEATHING IS REQUIRED BOTH SIDES OF WALL.
3. ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANEL EDGES SHALL NOT BE LESS THAN SIZES INDICATED. IN LIEU OF 3x STUDS SHOWN IN _____MAY BE SUBSTITUTED.
4. BLOCK ALL PANEL EDGES.
5. NAIL SIZES PER NAIL SIZE TABLE. DRIVE ALL NAILS FLUSH W/ FACE OF SHEATHING. TOLERANCE +1/16" TO -0. STAGGER NAILING WHERE NECESSARY TO PREVENT SPLITTING OF LUMBER.
6. PLATES ON CONCRETE SHALL BE TREATED. SEE GENERAL NOTES.
7. CONNECT SHEATHING & STUDS AT SHEARWALL INTERSECTIONS AS INDICATED.
8. WHERE ONLY ONE HOLDOWN IS SPECIFIED, LOCATE ON OPEN-SIDE OF HOLDOWN STUDS. SEE WALL ELEVATION.
9. THE PLANS AND SECTIONS SHOWN HERE SCHEMATICALLY DEMONSTRATE THE TYPICAL CONNECTION DESIGNED BY THE ENGINEER OF RECORD. ALTERNATE CONNECTIONS MUST BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION.

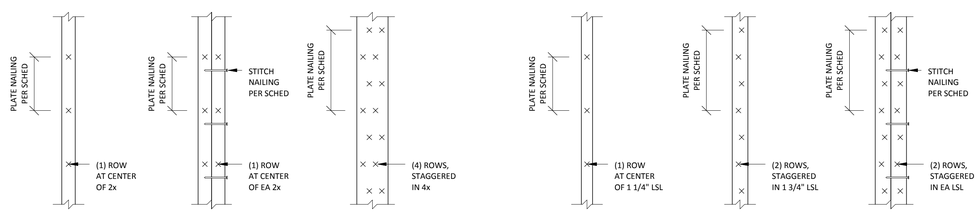


PLAN VIEW:
STAGGERED STUD WALL INTERSECTIONS



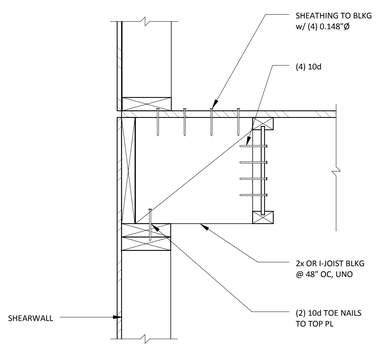
PLAN VIEW:
TYPICAL SHEARWALL INTERSECTIONS

1 Typical Shear Wall Schedule
Scale: 3/4" = 1'-0"

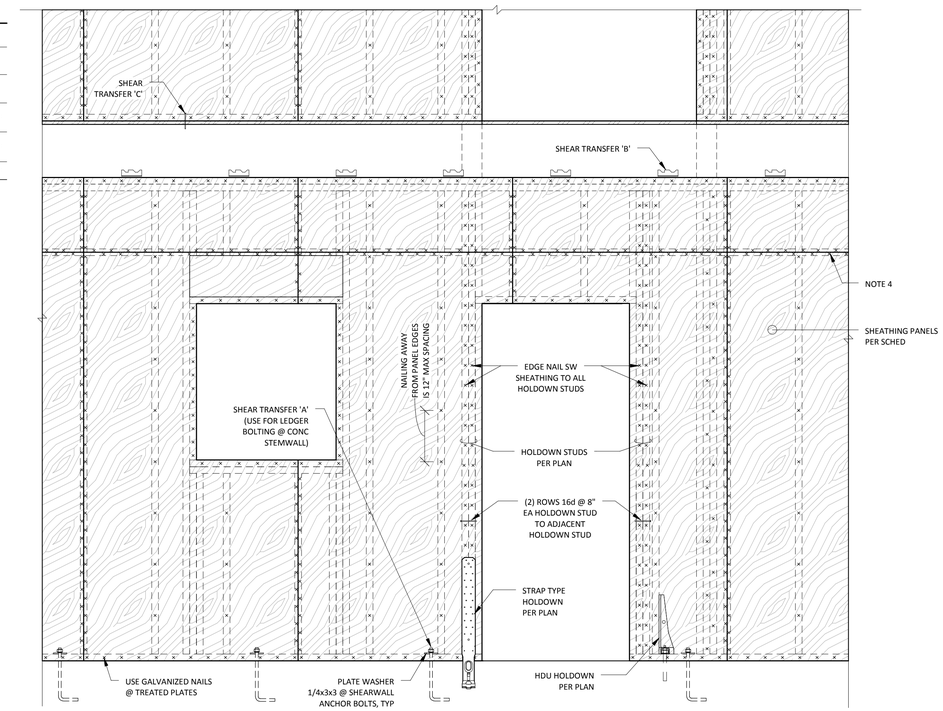


(1) Row of Plate Nailing (2x Framing) | **(2) Rows of Plate Nailing (2x Framing)** | **(4) Rows of Plate Nailing (2x Framing)** | **(1) Row of Plate Nailing (I-JOIST Framing)** | **(2) Rows of Plate Nailing (I-JOIST Framing)** | **(4) Rows of Plate Nailing (I-JOIST Framing)**

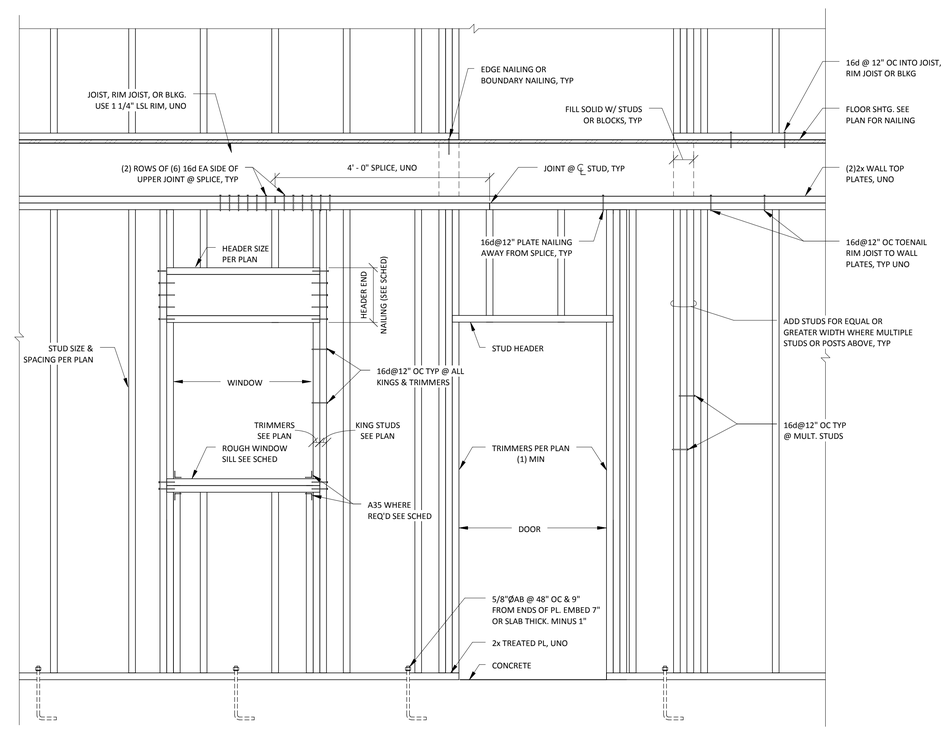
5 Typical Shear Wall Schedule - Plate Nailing Details
Scale: 1 1/2" = 1'-0"



9 Typical TJI Blocking in Floor or Roof
Scale: 1 1/2" = 1'-0"



7 Shear Wall Framing
Scale: 3/4" = 1'-0"



11 Typical Wood Framing Details
Scale: 3/4" = 1'-0"

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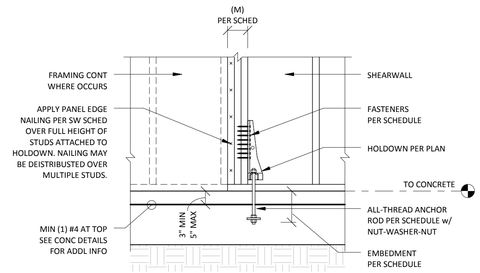
HOLDOWN SCHEDULE

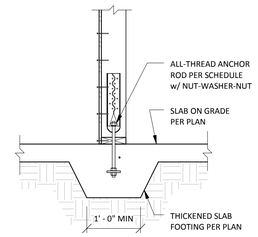
Mark	Framing Attachment		Anchorage			Capacity	
	M	Fasteners (SDS 1/4 x 2 1/2)	D	Anchor Type	Embed	Seismic (Mid-Wall / Corner / End Wall)	Wind (Mid-Wall / Corner / End Wall)
HDU2-AB	3"	6	9"	5/8"Ø	7"	2, 215 lbs	2,215 lbs
HDU5-AB	3"	14	9"	5/8"Ø	7"	4,855 lbs	4,855 lbs

NOTES:
1. INSTALL ALL HOLDOWNS PER MANUFACTURER'S INSTRUCTIONS.
2. PLACEMENT OF ALL ANCHORS IS BASED ON CAST-IN-PLACE INSTALLATION, UNO. POST-INSTALLED ANCHORS SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
3. "M" INDICATES MINIMUM DEPTH OF WOOD FRAMING MEMBER ATTACHED TO HOLDOWN. ALL FRAMING MEMBERS SHALL BE HEM-FIR, UNO.
4. "D" INDICATES MINIMUM DISTANCE FROM END OF CONCRETE WALL/FOOTING AT CORNER AND WALL END CONDITIONS. REFER TO ELEVATION AND SECTION FOR PLACEMENT DETAILS. UNLESS NOTED OTHERWISE: THE DISTANCE FROM ANY ANCHOR TO THE END OF CONCRETE WALL/FOOTING SHALL BE NO LESS THAN TWICE THE EMBEDMENT DEPTH NOTED IN THE SCHEDULE.

1 Typical Holdown Schedule
Scale: 3/4" = 1'-0"



HDU-AB ELEVATION



SECTION OF HDU-AB

3 Typical Holdown - Anchor Bolt
Scale: 3/4" = 1'-0"

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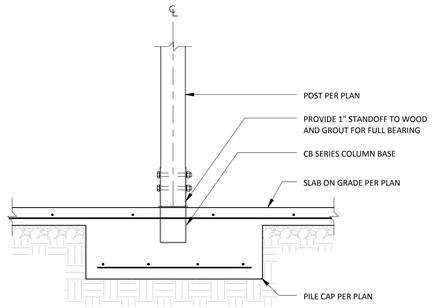
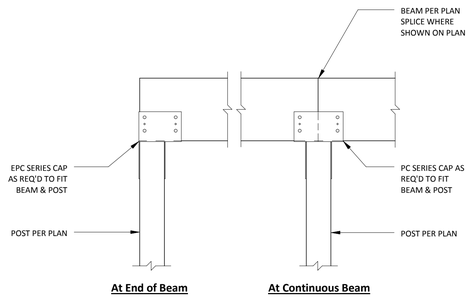
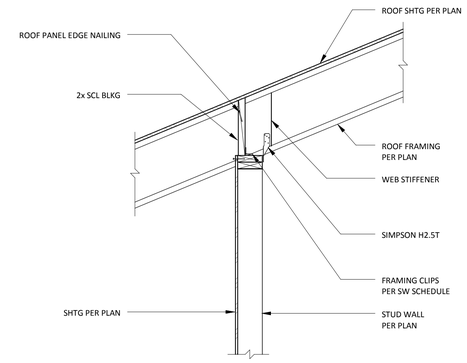


1 Typical Thickened Slab Post Footing
Scale: 3/4" = 1'-0"



2 Typical Beam over Post
Scale: 3/4" = 1'-0"



3 Typical Eave Detail
Scale: 3/4" = 1'-0"

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ORCAS ISLAND PUBLIC LIBRARY

ORCAS ISLAND PUBLIC LIBRARY EXPANSION - MECHANICAL

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SYMBOL LIST

SYMBOL	ABBV.	DESCRIPTION
		BALL VALVE
		GATE VALVE
		CHECK VALVE
		GLOBE VALVE
		GAS COCK
		SOLENOID / MODULATING VALVE
		THREE-WAY VALVE
		RELIEF VALVE
		BALANCING VALVE
		FLOW CONTROL VALVE (SET FOR 1 GPM)
		AUTO-FLOW CONTROL VALVE
	PRV	PRESSURE REDUCING VALVE
		UNION
		THERMOMETER
		PRESSURE GAUGE
		VIBRATION ISOLATOR
		WATER HAMMER ARRESTOR
		STRAINER
		ANCHOR
		BACKFLOW PREVENTION DEVICE
		HOSE BIBB
	VTR	VENT THROUGH ROOF
	CO	CLEANOUT
	S or W	SOIL or WASTE
	V	VENT
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER RECIRCULATION
	HWC	HOT WATER RECIRCULATION WITH HEAT TRACE TAPE
RL	RL	RAIN LEADER
ORL	ORL	OVERFLOW RAIN LEADER
D	D	DRAIN
G	G	GAS
F	F	FIRE SPRINKLER
HWS	HWS	HOT WATER SUPPLY
HWR	HWR	HOT WATER RETURN
CHS	CHS	CHILLED WATER SUPPLY
CHR	CHR	CHILLED WATER RETURN
CWS	CWS	CONDENSER WATER SUPPLY
CWR	CWR	CONDENSER WATER RETURN
LPS	LPS	LOW PRESSURE STEAM
C	C	CONDENSATE
TPL	TPL	TRAP PRIMER LINE
		DUCT SECTION - SUPPLY
		DUCT SECTION - RETURN
20x12		RECTANGULAR DUCT (INSIDE DIMENSION)
12"ø		ROUND DUCT
20x12	SL	SOUND LINED DUCT (INSIDE DIMENSION)
		FLEXIBLE DUCT
		ADJUSTABLE AIR EXTRACTOR
		TURNING VANE
	VD	VOLUME DAMPER
	MD	MOTORIZED DAMPER
	BDD	BACKDRAFT DAMPER
	SFD	COMBINATION SMOKE/FIRE DAMPER
	FD	FIRE DAMPER
	RAD	CEILING RADIATION DAMPER
	SD	DUCT SMOKE DETECTOR

SYMBOL	ABBV.	DESCRIPTION
T	T'STAT	THERMOSTAT
S	S	SWITCH
C	COS	CARBON MONOXIDE SENSOR
	AFF	ABOVE FINISHED FLOOR
	ARCH.	ARCHITECT/ARCHITECTURAL
	CDS	CEILING DIFFUSER-SURFACE MOUNTED
	CDL	CEILING DIFFUSER-LAY IN
	CGS	CEILING GRILLE-SURFACE MOUNTED
	CGL	CEILING GRILLE-LAY IN
	COP	COEFFICIENT OF PERFORMANCE
	X	DEMOLISH
	DWG	DRAWING
	E, EXIST.	EXISTING ITEMS
	ELECT.	ELECTRICAL
	EC	ELECTRICAL CONTRACTOR
	EER	ENERGY EFFICIENCY RATING
	EFF	EFFICIENCY/EFFICIENT
	FR	FLOOR REGISTER
	GC	GENERAL CONTRACTOR
	HSPF	HEATING SEASONAL PERFORMANCE FACTOR
	HWR	HIGH WALL REGISTER
	HWG	HIGH WALL GRILLE
	I.E.	INVERT ELEVATION
	IPLV	INTEGRATED PART LOAD VALUE
	LWR	LOW WALL REGISTER
	LWG	LOW WALL GRILLE
	MC	MECHANICAL CONTRACTOR
	MECH.	MECHANICAL
	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
	POC	POINT OF CONNECTION
	TYP.	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED
WC1		PLUMBING FIXTURE TAG
EF 1		EQUIPMENT TAG
1		FLAG NOTE
10"ø CDL 300 CFM		CONNECTION (NECK) SIZE; TYPE (CEILING DIFF. LAY-IN); FLOW RATE (CUBIC FEET PER MINUTE)
3" (125)		FIXTURE UNITS or BTUH; PIPE SIZE
1 M1.0		DETAIL NUMBER; SHEET ON WHICH DETAIL IS DRAWN
1 M1.0		SECTION INDICATOR; SHEET ON WHICH SECTION IS DRAWN
1		REVISION TAG

GENERAL NOTES

PROTECT ALL DUCT OPENINGS OF FIRE RATED ASSEMBLIES PER I.B.C. 716.

INSTALL SEISMIC BRACING FOR ALL DUCTWORK, EQUIPMENT AND PIPING PER I.B.C. REQUIREMENTS. PROVIDE ENGINEERED AND STAMPED DESIGN DRAWINGS IF REQUIRED BY IBC. CONTRACTOR TO CONTACT OR HIRE A STRUCTURAL ENGINEER TO DETERMINE BUILDING AND SYSTEM IMPORTANCE FACTORS. UTILIZE ISAT OR OTHER SEISMIC BRACING COMPANY.

INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.

MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.

COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.

THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK IN ORDER TO OBSERVE EXISTING CONDITIONS. VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES AND BUILDING STRUCTURE.

LOCATE ALL PLUMBING FIXTURES PER ARCHITECTURAL DRAWINGS.

CONTRACTOR SHALL PROVIDE WASTE, VENT, WATER AND GAS PIPING, INCLUDING TRAPS, FITTINGS AND STOPS TO COMPLETE EACH EQUIPMENT HOOK-UP TO THE POINT OF FINAL CONNECTION. CONNECTION BETWEEN VARIOUS PIECES OF EQUIPMENT SHALL BE MADE BY THE PLUMBING CONTRACTOR AT THE TIME EQUIPMENT IS BEING INSTALLED.

PROVIDE WATER HAMMER ARRESTOR ON FAST ACTION VALVES.

MAJOR APPLICABLE CODES:

2012 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
2012 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS
2012 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS
2012 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS
2012 WASHINGTON STATE ENERGY CODE

GENERAL MATERIAL NOTES

ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL PER SMACNA STANDARDS, IMC 603-4.

ALL FLEXIBLE DUCTWORK SHALL BE PER NFPA 90A, UL 181, CLASS 1, 2-PLY VINYL FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE; FIBROUS-GLASS INSULATION; POLYETHYLENE VAPOR-BARRIER FILM WITH MAXIMUM 6 FEET LENGTH.

SOUND LINED DUCT SHALL BE FIBERGLASS, 1-1/2# DENSITY, 1" THICK WITH A MINIMUM NOISE REDUCTION COEFFICIENT OF 0.8.

DOMESTIC WATER PIPING SHALL BE TYPE "L" COPPER WITH PRESS FITTINGS.

CONDENSATE PIPING SHALL BE TYPE "L" COPPER WITH PRESS FITTINGS.

SANITARY SEWER PIPING SHALL BE "NO-HUB" CAST IRON PIPING.

VENT PIPING SHALL BE "NO-HUB" CAST IRON PIPING.

MECHANICAL SCOPE OF WORK

PROVIDE SPACE CONDITIONING USING SPLIT SYSTEM HEAT PUMPS. HEAT PUMPS TO UTILIZE SUPPLEMENTAL ELECTRIC HEATING COILS (SEE SCHEDULES). HEAT PUMP CONTROLS TO BE PROGRAMMABLE THERMOSTATS (SEE SCHEDULE).

Coordinate with Electrical

ELECTRIC WALL HEATERS TO BE INSTALLED BY ELECTRICAL.

DOMESTIC WATER TO NEW FIXTURES TO BE SUPPLIED FROM EXISTING BUILDING. NEW HOT WATER HEATER TO BE INSTALLED IN NEW CUSTODIAL CLOSET.

NEW SANITARY DRAIN CONNECTION TO BE PROVIDED BY CIVIL CONTRACTOR IN LOCATION SHOWN ON UNDERSLAB PLUMBING SHEET.

FIRE SPRINKLER NOTES

EXISTING BUILDING AND NEW ADDITION ARE TO BE NON SPRINKLERED.

SOUND ATTENUATION

Acoustical to review.

NEW SUPPLY AIR DUCTS TO UTILIZE SOUND ATTENUATORS IN LOCATIONS SHOWN ON HVAC PLANS. (4) 20"x20" x36"L - IAC OR APPROVED EQUAL

DRAWING INDEX

SHEET	DESCRIPTION
M1.0	MECHANICAL COVER SHEET & SCHEDULES
M2.0	FIRST FLOOR - HVAC
M2.1	FIRST FLOOR - BELOW SLAB PLUMBING
M2.2	FIRST FLOOR - OVERHEAD PLUMBING
M2.3	ROOF PLAN - MECHANICAL

FAN SCHEDULE

EQUIP. TAG	AREA SERVED	MFG' / MODEL NUMBER	CFM	E.S.P. INCHES W.G.	FAN MOTOR HP/ WATTS	FAN MOTOR VOLTS	FAN MOTOR PH.	NOISE dBA	DRIVE	DISCONNECT	CONFIGURATION	WEIGHT (LBS)	REMARKS
EF-1	TOILET RMS, CUSTODIAL CLST	GREENHECK / SQ-85-VG	350	0.5	1/6	115	1	57 dBA	DIRECT	BY ELECTRICAL	INLINE	50	1, 2, 3, 4
EF-2	KITCHEN	GREENHECK / SP-A200	200	0.1	48 W	115	1	2 SONE	DIRECT	BY ELECTRICAL	CEILING	25	4, 5

NOTES:
1. PROVIDE TIME CLOCK TO CONTROL DURING NORMAL BUSINESS HOURS
2. PROVIDE WITH SPEED CONTROL
3. PER WSEC C403.2.10.3 FRACTIONAL HP FAN MOTORS OVER 1/12 HP AND LESS THAN 1 HP SHALL BE ECM MOTORS.
4. DUCT CONNECTS TO FAN WITH APPROVED FLEXIBLE CONNECTORS
5. PROVIDE WALL TIMER SWITCH FOR MANUAL OPERATION

SPLIT SYSTEM HEAT PUMP SCHEDULE

OUTDOOR CONDENSING UNIT													INDOOR AIR HANDLER											
EQUIP. TAG	AREA SERVED	MFG' / MODEL NUMBER	NOMINAL TON	COOL CAP. MBH TOTAL	COOL CAP. MBH SENS.	HEAT CAP. MBH	HSPF	SEER	WEIGHT LBS	ELEC. REQ. MCA	ELEC. REQ. VOLTS	ELEC. REQ. PH.	EQUIP. TAG	MFG' / MODEL NUMBER	AIRFLOW CFM	OSA CFM	ESP IN W.G.	FAN HP	ELEC. HEAT KW	ELEC. REQ. MCA	ELEC. REQ. VOLTS	ELEC. REQ. PH.	WEIGHT LBS	REMARKS
HP-1	CHILDRENS AREA, OFFICE, SM GROUP	TRANE / 4TWR6048H1	4	48.1	36.6	30.8	9.5	16	300	32	240	1	AHU-1	TRANE / TAM7A0C48H41SD	1600	150	0.7	3/4	7.68	45	240	1	120	1, 2. 3, 4, 5, 6, 7
HP-2	COMMUNITY RM, YOUNG ADULT	TRANE / 4TWR6036H1	3	36.1	28.2	23.2	9	16	300	22	240	1	AHU-2	TRANE / TAM7A0C36H31SD	1200	150	0.7	1/2	7.68	44	240	1	120	1, 2. 3, 4, 5, 6, 7
HP-3	READING ROOM, LOBBY	TRANE / 4TWR6036H1	3	36.1	28.2	23.2	9	16	300	22	240	1	AHU-2	TRANE / TAM7A0C36H31SD	1200	150	0.7	1/2	4.80	29	240	1	120	1, 2. 3, 4, 5, 6, 7
HP-4	COMPUTER AREA	TRANE / 4TWR6060H1	5	57.7	43.4	38.3	9	15	300	41	240	1	AHU-4	TRANE / TAM7B0C60H51SD	1900	150	0.7	1	4.80	32	240	1	120	1, 2. 3, 4, 5, 6, 7

NOTES:
1. COOLING CAPACITY AT ARI CONDITIONS OF 80D ENTERING DB/67 ENTERING WB, 95D OUTDOOR DB
2. HEATING CAPACITY AT 47 F OUTDOOR TEMP
3. PROVIDE CONDESATE DRAIN TO APPROVED FIXTURE
4. PROVIDE WITH HONEYWELL 8500 7 DAY PROGRAMMABLE TOUCH SCREEN T-STAT
5. PROVIDE 100% OUTSIDE AIR ECONOMIZER CONTROLS
6. PROVIDE WITH MICROMETL 100% ECONOMIZER MIXING BOX
7. PROVIDE WITH EZ-TRAP MODEL EZT-225 CONDENSATE OVERFLOW SWITCH TO SHUT-OFF UNIT WITH MOISTURE DETECTION

MECHANICAL COVER SHEET & SCHEDULES

DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:

Revisions:

Drawn: JS

Checked: RH
Date: 12/31/15

Job No: 15-202

Sheet No:
M1.0

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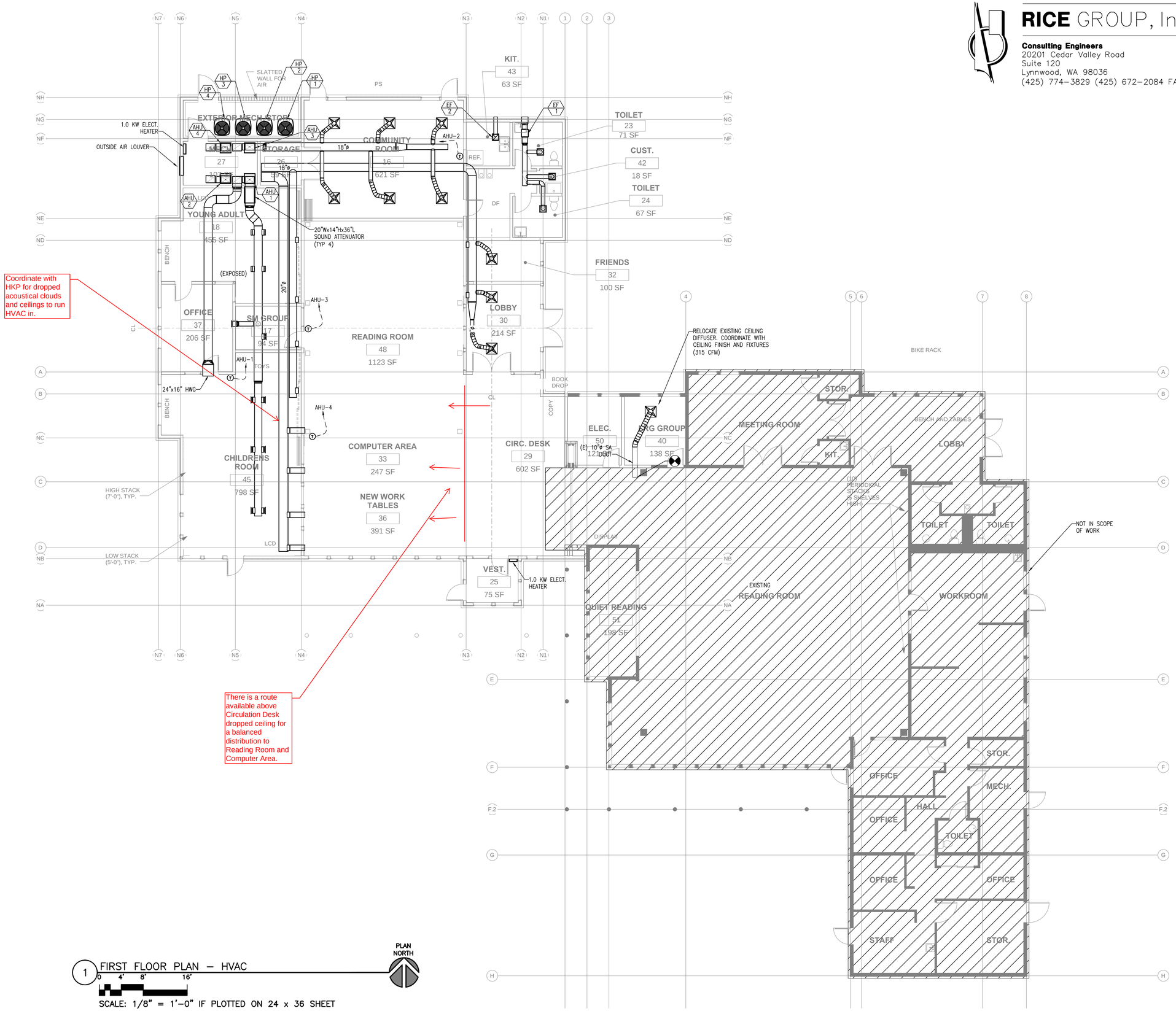

1 FIRST FLOOR PLAN – HVAC

0 4' 8' 16'

SCALE: 1/8" = 1'-0" IF PLOTTED ON 24 x 36 SHEET

PLAN NORTH

DESIGN DEVELOPMENT

FIRST FLOOR PLAN - HVAC

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

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FIRST FLOOR – HVAC

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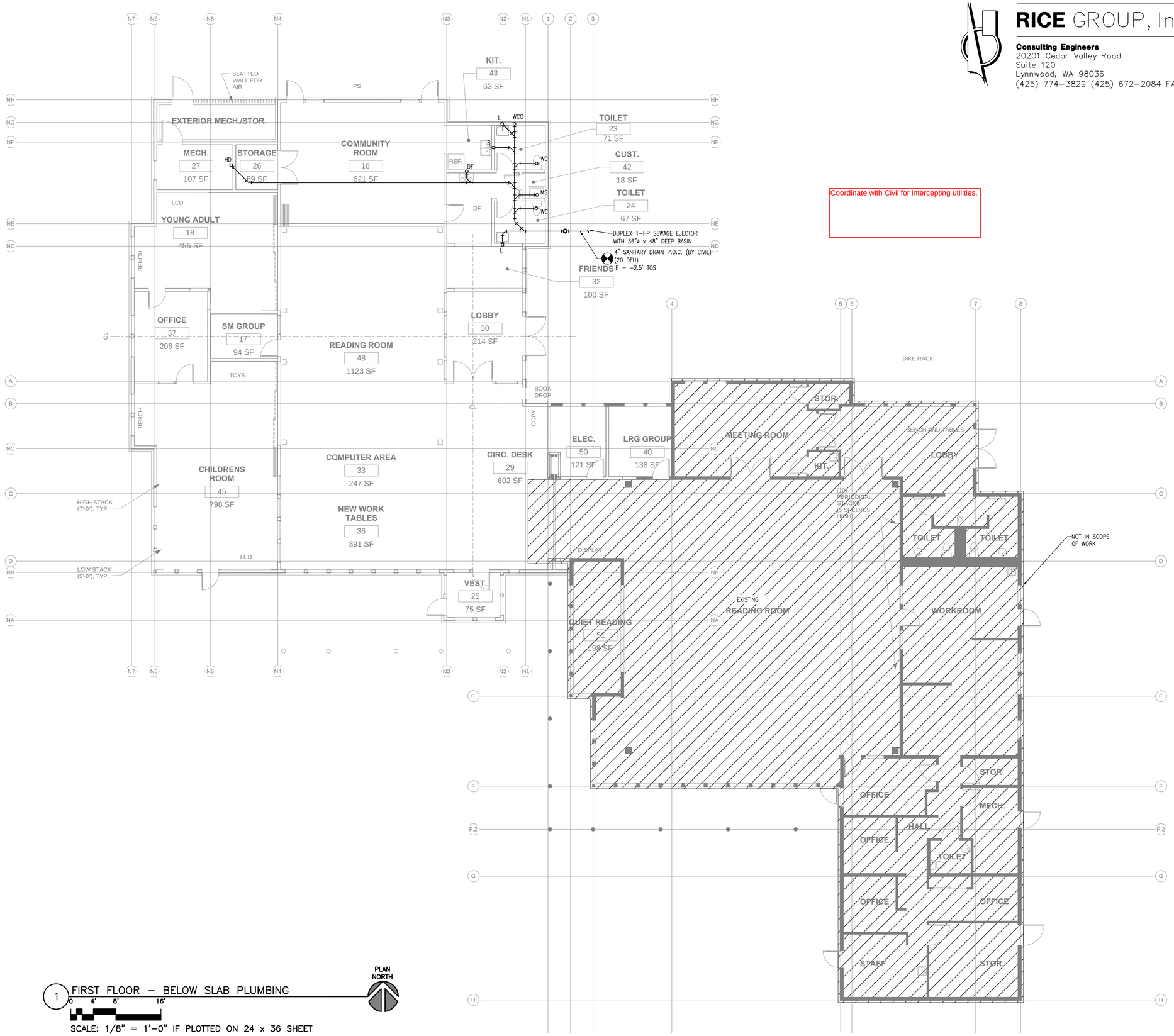

Coordinate with Civil for intercepting utilities.

1 FIRST FLOOR – BELOW SLAB PLUMBING

0 4' 8' 16'

SCALE: 1/8" = 1'-0" IF PLOTTED ON 24 x 36 SHEET

PLAN NORTH

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FIRST FLOOR - BELOW SLAB PLUMBING

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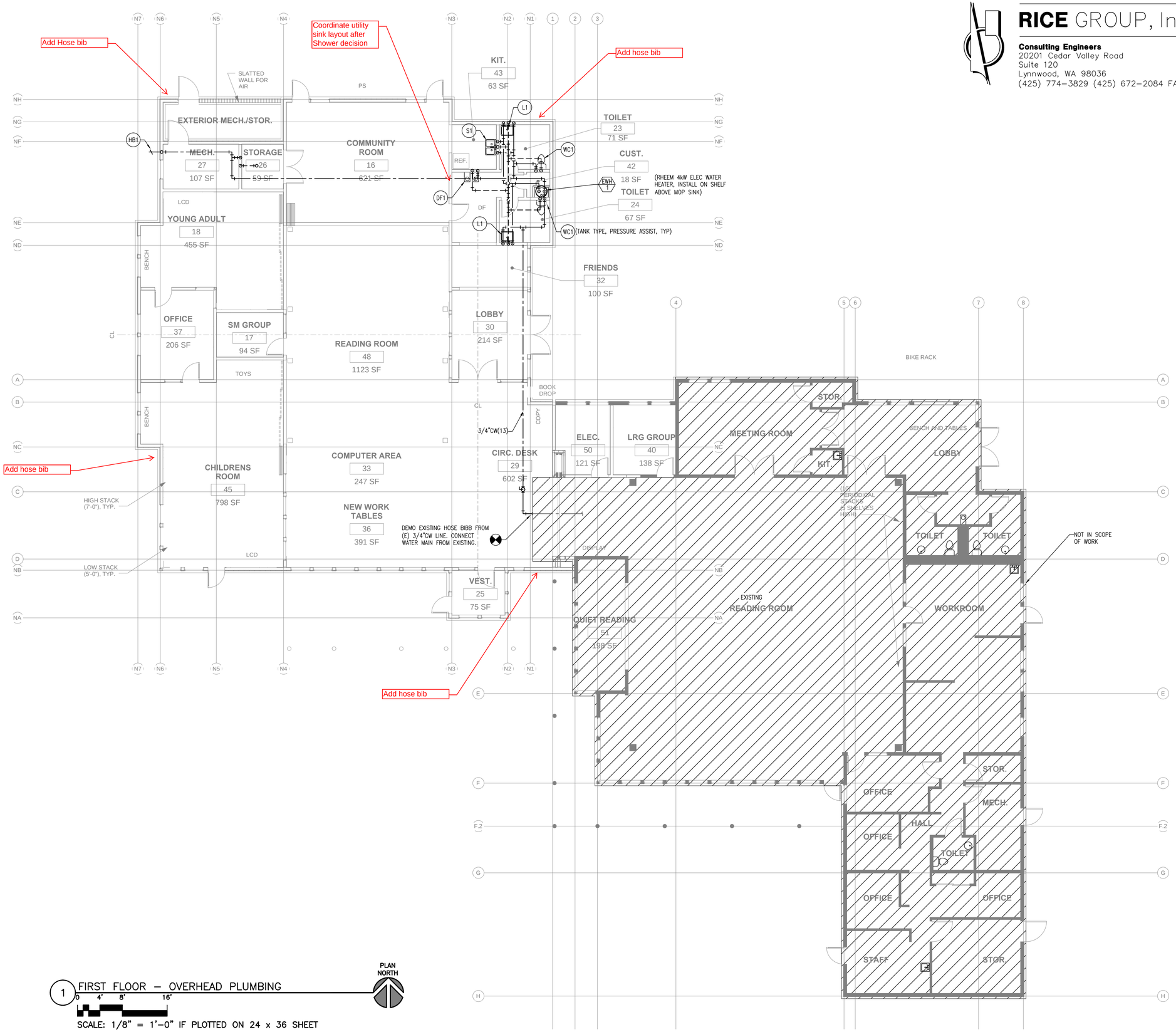

1 FIRST FLOOR – OVERHEAD PLUMBING

SCALE: 1/8" = 1'-0" IF PLOTTED ON 24 x 36 SHEET

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DESIGN DEVELOPMENT

FIRST FLOOR - OVERHEAD PLUMBING

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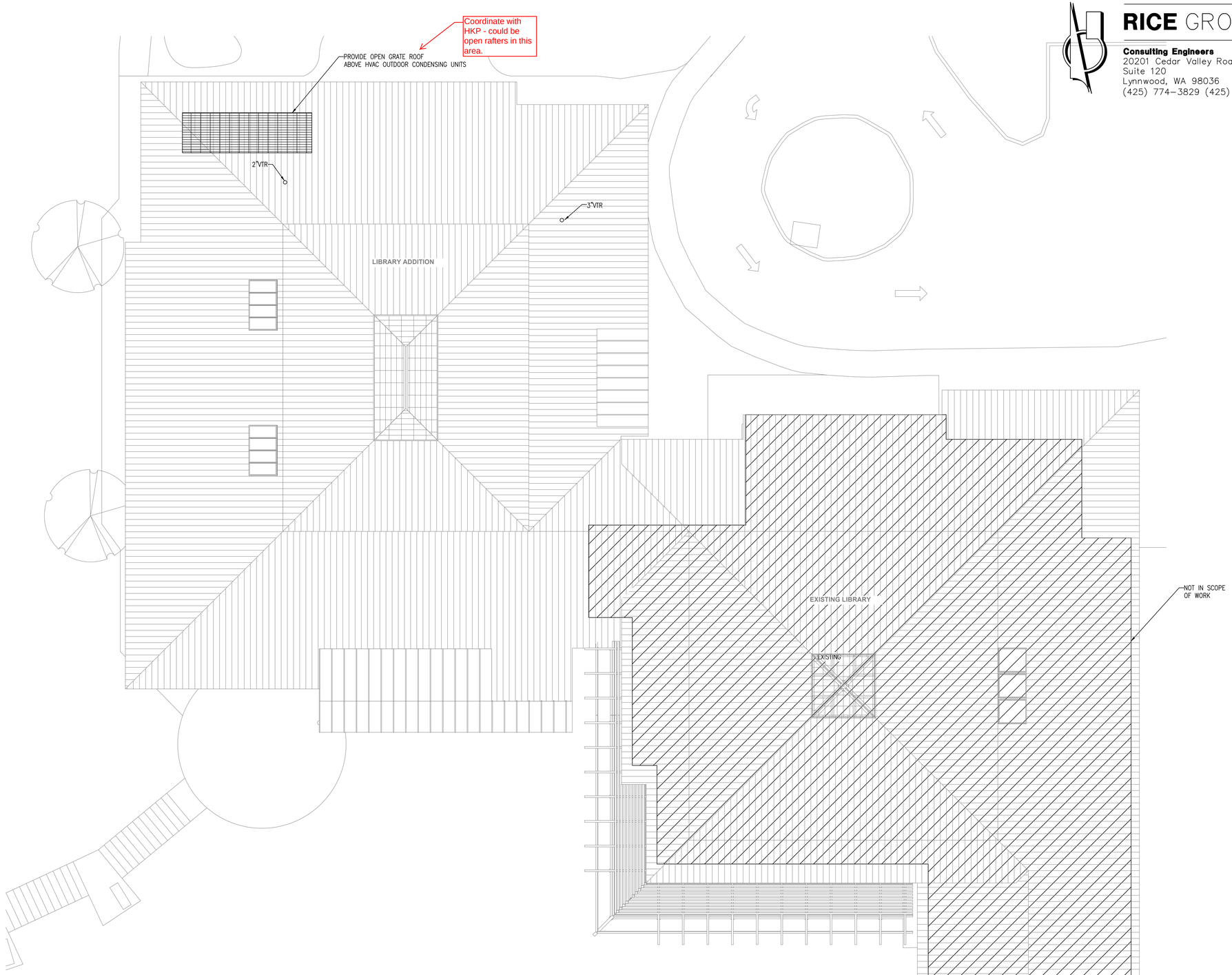

1 ROOF PLAN – MECHANICAL

0 4' 8' 16'

SCALE: 1/8" = 1'-0" IF PLOTTED ON 24 x 36 SHEET

PLAN NORTH

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ROOF PLAN - MECHANICAL

DESIGN DEVELOPMENT

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NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS):

1. ALL SYSTEMS, EQUIPMENT, DEVICES, RACEWAYS, CABLES, ETC. INDICATED ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.

2. THE ELECTRICAL WORK SHALL INCLUDE ALL WORK SHOWN ON THE DRAWINGS, DETAILS, DIAGRAMS, SCHEDULES, ETC., AND AS DESCRIBED IN THE SPECIFICATIONS.

3. PLAN DRAWINGS ARE DIAGRAMMATIC IN FORM AND DO NOT ATTEMPT TO SHOW COMPLETE DETAILS OR LIST EVERY ITEM OF THE ELECTRICAL SYSTEM, EQUIPMENT, OR BUILDING CONSTRUCTION; HOWEVER, THE ROUTING OF RACEWAYS AND CIRCUITS, THE LOCATIONS OF EQUIPMENT, DEVICES AND FIXTURES REPRESENT THE DESIRED FINISHED ARRANGEMENT.

4. THE ENGINEER WILL CONSIDER ALTERNATE RACEWAY/CABLE ROUTES (E.G.THROUGH CHASES, CEILINGS, ETC., PROVIDED THEY ARE SUFFICIENTLY ACCESSIBLE SUCH THAT WIRES AND CABLES CAN BE ADDED &/OR RE-ROUTED IN THE FUTURE. OBTAIN APPROVAL FROM ARCHITECT PRIOR TO PROCEEDING WITH ALTERNATE ROUTES.

5. DETAIL DRAWINGS SHALL BE CONSIDERED APPLICABLE TO ALL PLAN DRAWINGS AND SIMILAR CONDITIONS EVEN IF THE DETAILS ARE NOT SPECIFICALLY REFERENCED.

6. RACEWAYS AND CABLES THROUGHOUT THE FACILITY SHALL BE RUN CONCEALED IN THE WALLS, ABOVE THE CEILING OR BELOW THE FLOOR WHERE POSSIBLE, EXCEPT, EXPOSED WITHIN UTILITY & OTHER NON-PUBLIC SPACES. WITHIN PUBLIC SPACES, WHERE DUE TO THE BUILDINGS CONSTRUCTION, IT IS NOT POSSIBLE TO ROUTE RACEWAYS & CABLES CONCEALED, RACEWAYS MAY BE RUN EXPOSED. (EXPOSED CABLES ARE NOT ALLOWED EXCEPT IN TELECOMMUNICATIONS ROOMS.) EXPOSED RACEWAYS SHALL BE RUN AS NEATLY & UNOBTRUSIVELY AS POSSIBLE, SUPPORTED AS REQUIRED, PARALLEL OR AT RIGHT ANGLES TO CEILINGS, WALLS & STRUCTURAL MEMBERS.

7. RACEWAYS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   A. INTERIOR ACCESSIBLE CONCEALED SPACES - ELECTRICAL METALLIC TUBING (EMT) WITH FLEXIBLE METAL CONDUIT (FLEX) FOR FINAL CONNECTIONS TO VIBRATING EQUIPMENT.

   B. INTERIOR NON-ACCESSIBLE CONCEALED SPACES - FLEXIBLE METAL CONDUIT (FLEX) MAY BE "FISHED" FROM ONE POINT OF CONNECTION TO ANOTHER.

   C. INTERIOR, EXPOSED IN TELECOM ROOMS, UTILITY ROOMS & OTHER NON-PUBLIC SPACES - ELECTRICAL METALLIC TUBING (EMT).

   D. INTERIOR, EXPOSED IN ROOMS, CORRIDORS & THE LIKE WHERE READILY VISIBLE TO BUILDING OCCUPANTS - SURFACE METAL RACEWAY (SMR).

   E. METAL CLAD (MC) CABLE SHALL NOT BE PERMITTED, EXCEPT FOR FIXTURE WHIPS CONCEALED IN ACCESSIBLE CEILING SPACES.

8. RACEWAYS SHALL BE SIZED SO THAT THE CABLE FILL DOES NOT EXCEED 40%, EXCEPT, MINIMUM CONDUIT SIZES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

   A. 3/4" - BRANCH CIRCUITS AND SYSTEM RACEWAYS, EXCEPT AS NOTED BELOW.

   B. 1/2" - RUNS WITH #12 AWG OR SMALLER CIRCUIT CABLE TERMINATING IN A SINGLE DEVICE.

   C. 1/2" - CONDUIT STUBS FROM ACCESSIBLE CEILING SPACES DOWN TO A SINGLE FIRE ALARM DEVICE (PULL STATION, HORN/STROBE, ETC.) OR SINGLE PUBLIC ADDRESS DEVICE (MICROPHONE, SPEAKER, ETC.) OR SINGLE AUDIO VISUAL SYSTEM SPEAKER LOCATIONS.

   D. 1" - POWER & LIGHTING HOMERUNS.

   E. 1" - UNDERGROUND CONDUITS.

   F. 1" - TELECOMMUNICATIONS RACEWAYS TERMINATING IN A SINGLE DEVICE.

   G. 1 1/4" - TELECOMMUNICATIONS RACEWAYS SERVING TWO DEVICE LOCATIONS

   H. 1 1/4" - AUDIO VISUAL SYSTEM PROJECTORS & INPUT DEVICE LOCATIONS.

9. DEVICE BOX SIZES SHALL BE SIZED IN ACCORDANCE WITH NEC FOR BOX FILL, EXCEPT MINIMUM SHALL BE AS FOLLOWS, UNLESS SPECIFICALLY NOTED OTHERWISE:

   A. POWER & LIGHTING - 4" x 4" x 1 1/2"

   B. TELECOMMUNICATIONS - 4 11/16" x 4 11/16" x 2 1/8"

   C. AUDIO/VIDEO - 5" x 5" x 2 7/8"

   D. FIRE ALARM, ACCESS CONTROL, SECURITY, PAGING, ANCILLARY, ETC. SYSTEMS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.

10. DEVICE MOUNTING HEIGHTS SHALL BE AS FOLLOWS, UNLESS SPECIFICALLY NOTED OTHERWISE. MOUNTING HEIGHTS SHOWN ON THE DRAWINGS ARE TO THE CENTER OF THE BACK BOX FROM THE INTERIOR FINISHED FLOOR.

    A. POWER, TELECOMMUNICATIONS, AUDIO/VIDEO, ETC. RECEPTACLES - 18"

    B. LIGHTING SWITCHES, CONTROL STATIONS, ETC. - 44"

    C. DEVICES ABOVE COUNTERS - 4" ABOVE BACKSPLASH.

    D. FIRE ALARM PULL STATIONS - 44"

    E. FIRE ALARM NOTIFICATION APPLIANCES - 80"

    F. EXIT & EMERGENCY LIGHTS - 100"

NOTES (CONTINUED):

11. TELECOMMUNICATIONS CONDUITS SHALL BE PROVIDED WITH PULL ROPES BELOW GRADE AND PULL STRINGS ABOVE GRADE.

12. BRANCH CIRCUIT CABLES, EQUIPMENT GROUND CABLES AND ABOVE GRADE FEEDER CABLES SHALL BE 1/C COPPER, #12 AWG UNLESS NOTED OTHERWISE, WITH 600V TYPE XHHW OR THHN/THWN INSULATION.

13. IN ADDITION TO THE CIRCUIT CONDUCTORS INDICATED, CONTRACTOR SHALL PROVIDE AN EQUIPMENT GROUND CABLE (SIZED THE SAME AS THE LARGEST CIRCUIT CONDUCTOR UNLESS SPECIFICALLY NOTED OTHERWISE) WITHIN EACH RACEWAY WITH THE CIRCUIT CONDUCTORS.

14. AUDIO-VIDEO SYSTEM RACEWAYS, CONDUITS, BOXES, ETC. SHALL BE SUITABLY GROUNDED. PROVIDE A SEPARATE GROUND CABLE FROM THE POWER BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR WHICH SERVES THE AUDIO-VIDEO EQUIPMENT AND BOND THE RACEWAY SYSTEM AT AN AUDIO-VIDEO PULL BOX. GROUNDING CONDUCTORS SHALL BE PROVIDED TO BOND PHYSICALLY ISOLATED SECTIONS OF THE RACEWAY SYSTEM.

15. SEE ELECTRICAL SPECIFICATION FOR SYSTEMS CABLE TYPES.

16. ALL WIRING SHALL BE ENCLOSED WITHIN THE RACEWAY SYSTEM, EXCEPT, TELECOMMUNICATIONS, FIRE ALARM, ACCESS CONTROL AND CLASS 2 LOW VOLTAGE CABLING MAY BE BUNDLED TOGETHER AND SUPPORTED OPEN IN ACCESSIBLE CEILING SPACES. EACH SYSTEMS CABLES SHALL BE BUNDLED AND MANAGED SEPARATELY FROM OTHER SYSTEMS CABLES.

17. FLOOR, WALL AND CEILING PENETRATIONS BY OPEN CABLES WILL NOT BE ALLOWED. PROVIDE CONDUIT SLEEVES WHERE OPEN CABLES PASS THROUGH WALLS, DRAFTSTOPS, CEILINGS, FLOORS, ETC.

18. PROTECT "OPEN" CABLE WIRING FROM ROUGH AND/OR SHARP EDGES ON SUPPORTS, STRUCTURAL MEMBERS, ETC. AS REQUIRED DURING INSTALLATION.

19. VERIFY ALL EQUIPMENT, DEVICE, ETC. LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN. SEE MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT, ARCHITECTURAL DRAWINGS FOR SPECIALTY EQUIPMENT, CASEWORK, ETC. THE OWNER RESERVES THE RIGHT TO RELOCATE OUTLETS, ETC. WITHIN 10' OF THE LOCATION INDICATED, PRIOR TO INSTALLATION, WITHOUT INCREASE IN COST.

20. CONTRACTOR SHALL VERIFY WITH THE ARCHITECT THE MOUNTING HEIGHT FOR ALL WALL MOUNTED AND PENDANT MOUNTED LIGHTING FIXTURES PRIOR TO ROUGH-IN.

21. SEE ARCHITECTURAL SPEC. SECTIONS (E.G. DOOR HARDWARE, APPLIANCES, DOORS, ETC.), ENTIRE DIVISION 11 - EQUIPMENT, & ENTIRE DIVISION 22 - PLUMBING, DIVISION 23 - HVAC FOR ADDITIONAL REQUIREMENTS, FURTHER CLARIFICATIONS, ETC. OF EQUIPMENT ELECTRICAL REQUIREMENTS.

22. CONTRACTOR SHALL VERIFY WITH THE ARCHITECT THE FIRE RESISTIVE RATINGS FOR WALLS, PARTITIONS AND OTHER BUILDING STRUCTURES. INSTALLATION OF SYSTEM COMPONENTS AND RACEWAYS MUST MAINTAIN THE FIRE RESISTIVE RATING OF THE BUILDING.

23. POWER, FIRE ALARM, SECURITY & TELECOMMUNICATIONS SYSTEMS INTERRUPTIONS (WHETHER TO THE ENTIRE SYSTEM OR TO INDIVIDUAL PANELS, EQUIPMENT, ROOMS, DEVICES, ETC.) SHALL BE KEPT TO AN ABSOLUTE MINIMUM, AND SHALL NOT BE DONE WITHOUT PRIOR APPROVAL & SCHEDULING WITH THE ARCHITECT A MINIMUM OF 14 DAYS IN ADVANCE AND CONFIRMED 48 HOURS IN ADVANCE.

24. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 3 FEET OF ANY AIR SUPPLY VENT OR ANY FLUORESCENT LIGHTING BALLAST REGARDLESS OF THE LOCATION INDICATED ON THE DRAWINGS.

25. FIRE ALARM & SECURITY WIRING SHALL RUN FROM DEVICE TO DEVICE WITHOUT SPLICES OR TAPS. AT EACH BOX, THE INCOMMING PAIR OF THE INTELLIGENT LOOP CONDUCTORS SHALL BE IDENTIFIED WITH A SINGLE WRAP OF RED COLORED ELECTRICAL TAPE. "T" TAPS SHALL NOT BE INSTALLED WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.

26. LABELING & NAMEPLATES:

    A. OUTLETS SHALL BE LABELED WITH THE PANEL AND CIRCUIT NUMBER FROM WHICH ITS FED. LABELS SHALL BE HEAVY DUTY ADHESIVE TYPE, CLEAR TAPE WITH BLACK LETTERING, MADE WITH A LABEL PRINTING DEVICE.

    B. JUNCTION BOXES SHALL BE LABELED WITH THE PANEL AND CIRCUIT NUMBER CONTAINED WITHIN. MARKING SHALL BE LEGIBLY HAND-WRITTEN WITH BLACK INDELIBLE MARKER.

    C. REFER TO SPECIFICATIONS FOR PANELS, DISCONNECT SWITCHES, STARTERS, ETC. NAMEPLATES AND LABELING.

DEMOLITION NOTES (APPLICABLE TO ALL ELECTRICAL DRAWINGS):

1. CONTRACTOR SHALL REMOVE ALL EXISTING EQUIPMENT, DEVICES, ETC. WHERE INDICATED. EXISTING DEVICES NOT SHOWN ON THE DRAWINGS SHALL REMAIN. ALL ASSOCIATED CONDUIT, BOXES, CABLES, ETC. SHALL BE REMOVED TO THEIR POINT OF ORIGIN &/OR DESTINATION, EXCEPT, CONDUITS MAY BE RE-USED IF IN GOOD CONDITION & SUITABLE FOR THE NEW INSTALLATION, &/OR CONCEALED CONDUITS MAY BE LABELED & ABANDONED IN PLACE. EXISTING CABLES SHALL BE REMOVED OR REPLACED. EXISTING FLUSH BOXES SHALL BE PROVIDED WITH SUITABLE COVERS OR WALLPLATES.

2. EXISTING EQUIPMENT, FIXTURES, DEVICES, ETC. TO BE RE-USED IN THE NEW WORK SHALL BE REMOVED CAREFULLY, & PROTECTED FROM DAMAGE AS REQUIRED DURING DEMOLITION & CONSTRUCTION.

3. EXISTING EQUIPMENT, FIXTURES, DEVICES, ETC. TO REMAIN SHALL BE PROTECTED AS REQUIRED DURING DEMOLITION AND CONSTRUCTION.

4. EXISTING CIRCUITS, CONDUITS, CABLES, ETC. INTERRUPTED DUE TO THE REMODEL SHALL BE RE-CONNECTED AS REQUIRED TO MAINTAIN THE CIRCUIT.

5. ALL SURPLUS MATERIAL REMOVED DURING THE DEMOLITION SHALL BE INSPECTED BY THE OWNER, AND THOSE ITEMS SELECTED SHALL REMAIN THE PROPERTY OF THE OWNER. ALL REMAINING SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE & DISPOSED OF BY THE CONTRACTOR.

Coordinat with Acoustical and AV on all items.

ELECTRICAL LEGEND

MISCELLANEOUS

- Aa — RECESSED TROFFER LUMINAIRE (Aa = FIXTURE TYPE A CONTROLLED BY SWITCH Sa, TYPICAL. NL = NIGHTLIGHT)
- RECESSED DOWNLIGHT LUMIAIRE
- LINEAR PENDANT MTD. LUMINAIRE
- SURFACE MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE
- LIGHTED EXIT SIGN
- COMBINATION EXIT SIGN & EMERGENCY LIGHTING UNIT
- EXERGENCY LIGHTING UNIT
- S — SINGLE-POLE SWITCH
- $ — LOW VOLTAGE SWITCH
- LIGHTING MOTION DETECTOR, CEILING MTD.
- LIGHTING MOTION DETECTOR CONTROLLER
- LIGHTING PHOTOCELL CONTROLLER
- DUPLEX OUTLET
- DOUBLE DUPLEX OUTLET
- GFI — DUPLEX OUTLET, GROUND FAULT INTERRUPTING
- 2C W — COMMUNICATIONS OUTLET, FLUSH MOUNTED. CABLING BY OTHERS. (2C = 2 CAT6A CABLES, TYPICAL) (W = WALL PHONE TYPE OUTLET) (C = CEILING MOUNTED) (WAP = WIRELESS ACCESS POINT OUTLET)
- F — FIRE ALARM MANUAL PULL STATION
- F — FIRE ALARM HORN/STROBE, WALL MTD. (15cd UNLESS NOTED OTHERWISE)
- F — FIRE ALARM MANUAL PULL STATION WITH HORN/STROBE ABOVE
- FIRE ALARM STROBE, WALL MTD. (15cd UNLESS NOTED OTHERWISE)
- H — FIRE ALARM HEAT DETECTOR, RATE OF RISE
- S — FIRE ALARM SMOKE DETECTOR
- EOL — END OF LINE RESISTOR
- DOOR CONTACT SWITCH
- B — EXIT ALARM BUZZER

- BRANCH CIRCUIT, ABOVE GRADE, CONCEALED (OR SIMILAR. SLASHES = NO. OF CIRCUIT CONDUCTORS WHERE APPLICABLE)
- BRANCH CIRCUIT, ABOVE GRADE, EXPOSED (OR SIMILAR. SLASHES = NO. OF CIRCUIT CONDUCTORS WHERE APPLICABLE)
- HOMERUN TO LOCATION INDICATED, CONCEALED (TYPICAL)
- HOMERUN TO LOCATION INDICATED, EXPOSED (TYPICAL)
- CONDUIT STUB-UP INTO CEILING SPACE OR ONTO CABLE TRAY
- TELECOMMUNICATIONS WALL SLEEVE
- EXISTING CONDUIT WITH NEW CONDUCTORS
- GROUND CABLE
- CABLE RUN "OPEN" IN ACCESSIBLE CEILING SPACE (SLASHES = No. & TYPE OF CABLES WHERE APPLICABLE)
- SURFACE METAL RACEWAY (SMR)
- CABLE TRAY OR CABLE RACK
- TELECOMMUNICATIONS CABLE TRAY
- FRONT — TELECOMMUNICATIONS EQUIPMENT RACK
- JUNCTION BOX
- C — JUNCTION BOX, FLUSH MTD. IN CEILING
- PANELBOARD
- EX — EXISTING TO REMAIN
- REX — REPLACE EXISTING
- REL — RELOCATE EXISTING

DEMOLITION

(DASHED INDICATES EXISTING TO BE REMOVED)

- RECESSED FLUORESCENT TROFFER
- RECESSED DOWNLIGHT LUMIAIRE
- SINGLE-POLE SWITCH
- DUPLEX OUTLET
- FIRE ALARM STROBE, WALL MTD.

CABLE CODES

CODE	FUNCTION	DESCRIPTION	COLOR	NEC TYPE	CABLE ROUTING
DB6	COMPUTER/DATA BACKBONE CABLE	6 STRAND MULTIMODE FIBER OPTIC CABLE	BLACK JACKET	OFNR	INDOOR/OUTDOOR
VB25	VOICE (TELEPHONE) BACKBONE CABLE	25 PAIR #24 AWG, INDOOR RATED ARMM	GRAY JACKET	OFNR	OPEN OR COMBINATION OPEN & RACEWAY
CM	VOICE/DATA SYSTEM HORIZONTAL CABLE	CAT6A FOILED/UNSHIELDED TWISTED PAIRS (F/UTP)	WHITE JACKET	CMR	OPEN & IN RACEWAY (SEE PLANS)
A	F.A. SYSTEM NOTIFICATION (HORN/STROBE) CIRCUIT	2 CONDUCTOR #14 AWG	RED JACKET	FPLR	OPEN & IN RACEWAY (SEE PLANS)
Z	F.A. SYSTEM ADDRESSABLE DEVICE LOOP	2 CONDUCTOR #18 AWG	RED JACKET	FPLR	OPEN & IN RACEWAY (SEE PLANS)
X	F.A. SYSTEM CONVENTIONAL ZONE LOOP	2 CONDUCTOR #18 AWG	RED JACKET	FPLR	OPEN & IN RACEWAY (SEE PLANS)
D	F.A. SYSTEM 24VDC POWER CIRCUIT	2 CONDUCTOR #14 AWG	RED JACKET	FPLR	OPEN & IN RACEWAY (SEE PLANS)
C	F.A. SYSTEM ANNUNCIATOR/COMMUNICATION CIRCUIT	VARIES, PER MANUFACTURERS REQUIREMENTS	RED JACKET	FPLR	OPEN & IN RACEWAY (SEE PLANS)
LD	LIGHTING CONTROL DEVICE CIRCUIT	VARIES, PER MANUFACTURERS REQUIREMENTS	BLUE JACKET	CMR	OPEN & IN RACEWAY (SEE PLANS)
LC	LIGHTING CONTROL COMMUNICATION CIRCUIT	VARIES, PER MANUFACTURERS REQUIREMENTS	BLUE JACKET	CMR	OPEN & IN RACEWAY (SEE PLANS)
LP	LIGHTING PHOTOELECTRIC CONTROL DEVICE CIRCUIT	VARIES, PER MANUFACTURERS REQUIREMENTS	BLUE JACKET	CMR	OPEN & IN RACEWAY (SEE PLANS)
SM	SECURITY CONTACT MONITORING CIRCUIT	2 CONDUCTOR # 22 AWG SHIELDED	GRAY JACKET	CL2R	OPEN & IN RACEWAY (SEE PLANS)
SC	SECURITY SYSTEM CONTROL CIRCUIT	2 CONDUCTOR # 16 AWG	GRAY JACKET	CL2R	OPEN & IN RACEWAY (SEE PLANS)
SP	SECURITY SYSTEM 24VDC POWER CIRCUIT	2 CONDUCTOR # 12 AWG	GRAY JACKET	CL2R	OPEN & IN RACEWAY (SEE PLANS)

NOTES:
1. ALL CABLING SHALL BE IN RACEWAYS, EXCEPT CABLES LISTED FOR THE PURPOSE MAY BE RUN OPEN IN ACCESSIBLE CEILING SPACES.
2. CONFIRM CABLES WITH FIRE ALARM, SECURITY, AUDIO/VISUAL AND LIGHTING CONTROL SYSTEM PROVIDERS PRIOR TO INSTALLATION.

DRAWING INDEX

SHEET	DRAWING TITLE
E1.0	ELECTRICAL - NOTES, LEGEND, CABLE CODES & INDEX
E1.1	ELECTRICAL - SITE PLAN
E2.1	ELECTRICAL - FIRST FLOOR POWER PLAN
E2.2	ELECTRICAL - FIRST FLOOR LIGHTING PLAN
E2.3	ELECTRICAL - FIRST FLOOR ANCILLARIES PLAN
E2.4	ELECTRICAL - FIRST FLOOR COMMUNICATIONS PLAN
E4.1	ELECTRICAL - DETAILS
E4.2	ELECTRICAL - FIRE ALARM DETAILS
E5.1	ELECTRICAL - TELECOM DETAILS
E5.2	ELECTRICAL - TELECOM ROOM ELEVATIONS
E5.3	ELECTRICAL - TELECOM DETAILS
E6.1	ELECTRICAL - POWER SYSTEM RISER DIAGRAM & PANEL SCHEDULES
E6.2	ELECTRICAL - PANEL SCHEDULES
E6.4	ELECTRICAL - LIGHTING FIXTURE SCHEDULE

PRELIMINARY 1-5-16

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Sheet Contents:
ELECTRICAL - NOTES, LEGEND, LTG. FIXT. SCHEDULE & INDEX

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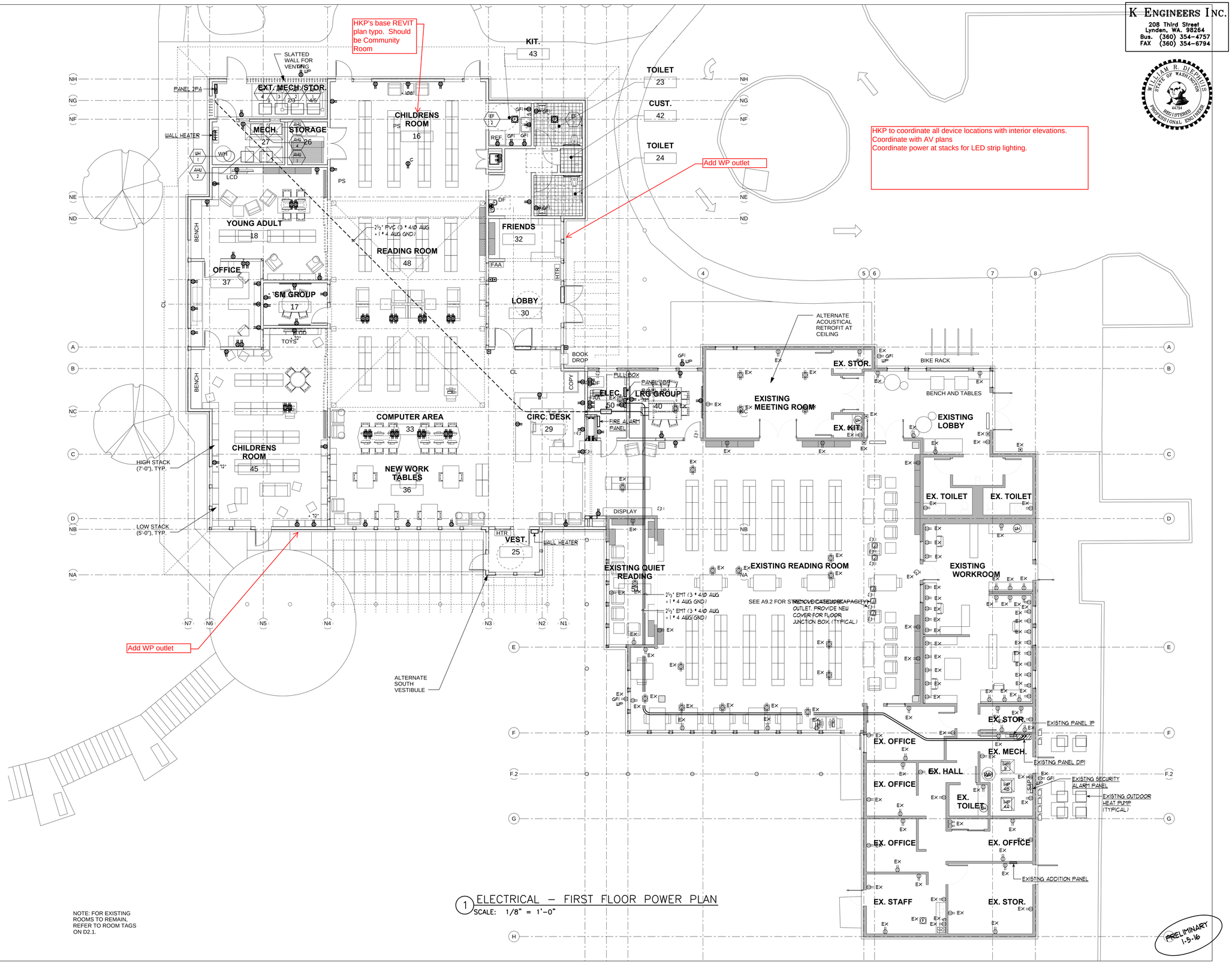

1 ELECTRICAL – FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

NOTE: FOR EXISTING ROOMS TO REMAIN, REFER TO ROOM TAGS ON D2.1.

PRELIMINARY 1-5-16

DESIGN DEVELOPMENT

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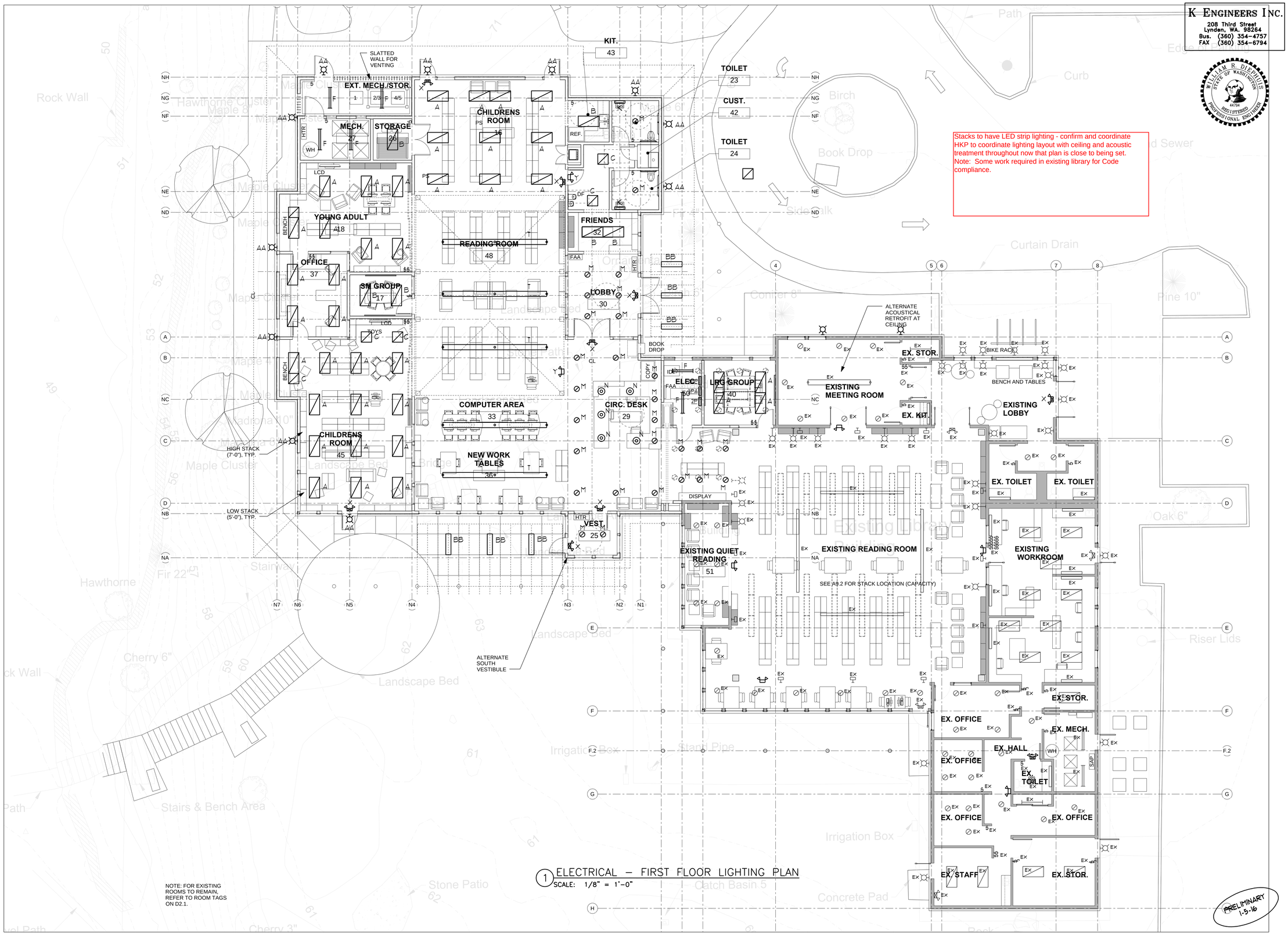

1 ELECTRICAL – FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

NOTE: FOR EXISTING ROOMS TO REMAIN, REFER TO ROOM TAGS ON D2.1.

PRELIMINARY 1-5-16

DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL – FIRST FLOOR LIGHTING PLAN

Revisions:

Drawn: KL

Checked: BD
Date: 1-5-16

Job No: 1726

Sheet No: E2.2

K ENGINEERS INC.
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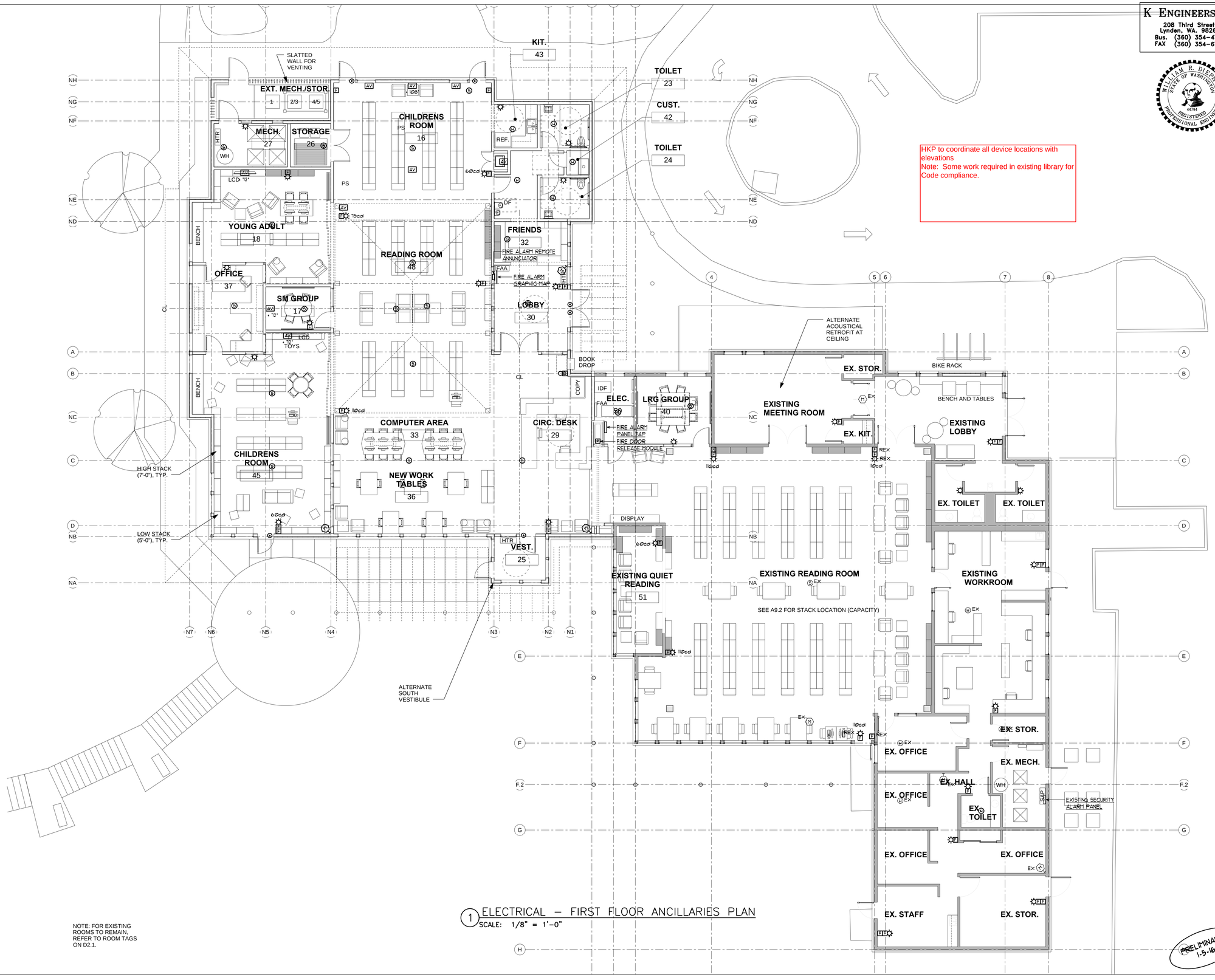
HKP to coordinate all device locations with elevations
Note: Some work required in existing library for Code compliance.



1 ELECTRICAL – FIRST FLOOR ANCILLARIES PLAN
SCALE: 1/8" = 1'-0"

NOTE: FOR EXISTING ROOMS TO REMAIN, REFER TO ROOM TAGS ON D2.1.

PRELIMINARY 1-5-16

DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL – FIRST FLOOR ANCILLARIES PLAN

Revisions:

Drawn: KL

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Date: 1-5-16

Job No: 1726

Sheet No: E2.3

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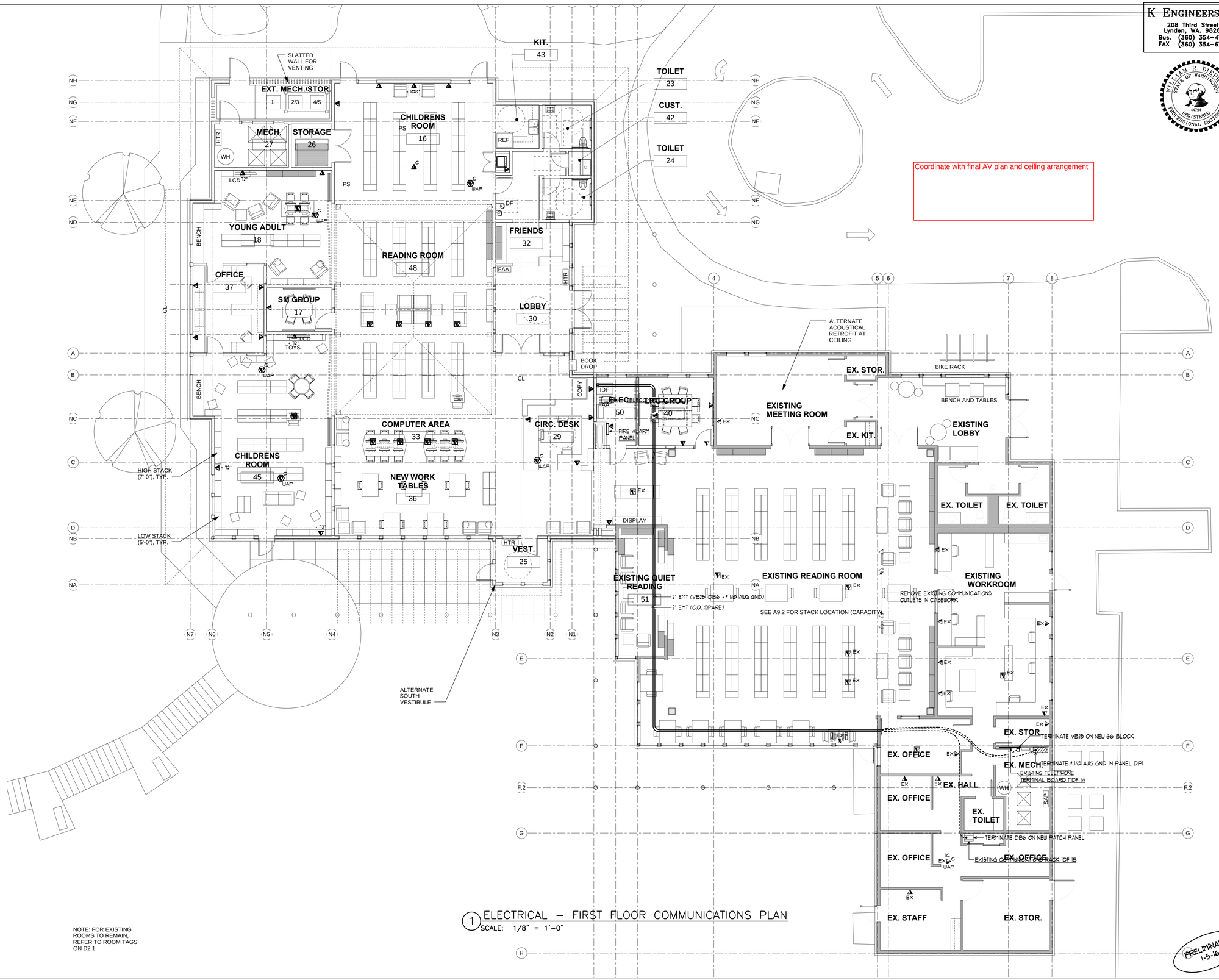

Coordinate with final AV plan and ceiling arrangement

1 ELECTRICAL – FIRST FLOOR COMMUNICATIONS PLAN
SCALE: 1/8" = 1'-0"

NOTE: FOR EXISTING ROOMS TO REMAIN, REFER TO ROOM TAGS ON D2.1.

PRELIMINARY 1-5-16

DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL – FIRST FLOOR COMMUNICATIONS PLAN

Revisions:

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Checked: BD
Date: 1-5-16

Job No: 1726

Sheet No:
E2.4

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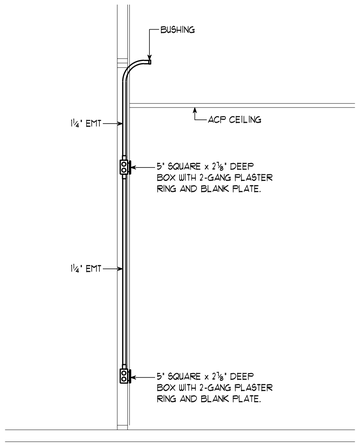
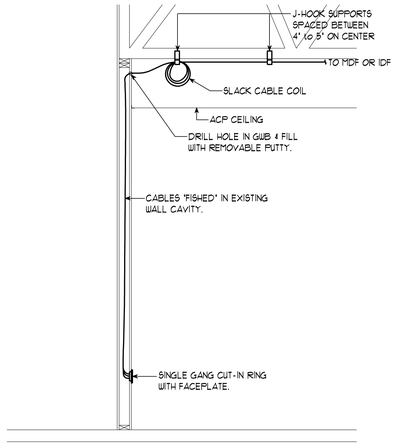
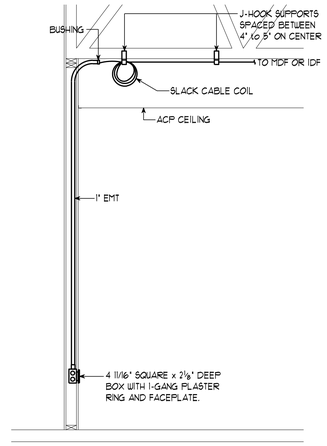


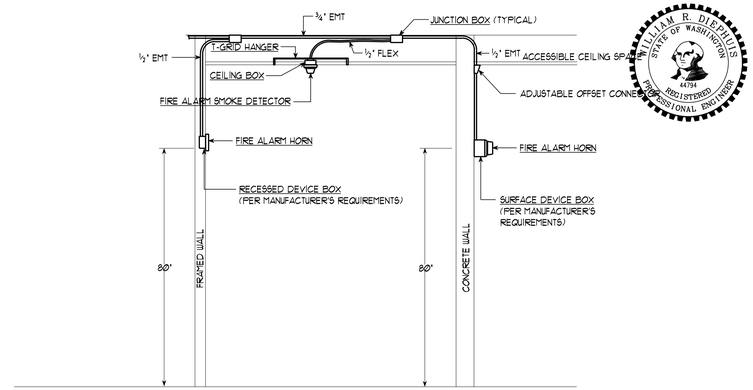
SECTION - AUDIO/VIDEO WALL STUB



EXISTING WALL - TELECOM



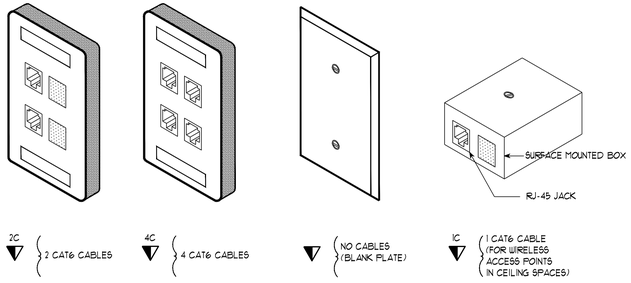
NEW WALL - TELECOM



TYPICAL FIRE ALARM DEVICES AND RACEWAYS

SECTION - TYPICAL TELECOM & FIRE ALARM WALL STUBS, DEVICES AND RACEWAYS

SCALE: ½" = 1' - Ø"

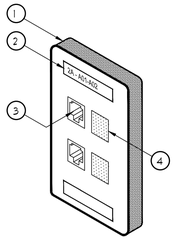


TYPICAL COMMUNICATIONS OUTLET FACEPLATE CONFIGURATIONS

NO SCALE

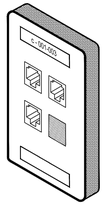
NOTES:

1. TERMINATE ALL CONDUCTORS OF ALL CABLES ON RECEPTACLES (JACK INSERTS).
2. CABLES FROM EACH VOICE & DATA RECEPTACLE (JACK INSERT) IN EACH OUTLET SHALL BE HOMERUN TO THE EQUIPMENT RACK IN THE ELECT./DATA ROOM AS INDICATED ON THE PLANS, WITHOUT SPLICES OR TAPS. CABLE LENGTH SHALL NOT EXCEED 300'. RE-ROUTE &/OR PROVIDE ADDITIONAL RACEWAYS AS REQUIRED IF 300' LIMITATION IS EXCEEDED.
3. OTHER OUTLET FACEPLATE CONFIGURATIONS SHALL BE SIMILAR WITH SIMILAR CABLING REQUIREMENTS.



1. 4-PORT FACEPLATE, SINGLE GANG, IVORY COLOR
2. OUTLET LABEL, WHITE PAPER, NON-ADHESIVE, PRINTED TEXT AS APPROVED BY OWNER.
3. 8-POSITION, 8-CONDUCTOR JACK INSERT (RJ-45) VOICE/DATA APPLICATIONS, T568B, NON-KEYED, IVORY COLOR.
4. BLANK INSERT, IVORY COLOR (TYPICAL)

COMMUNICATIONS OUTLET COMPONENT LEGEND



FORMAT: X-Y

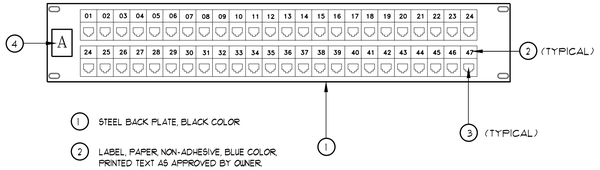
X --- ALPHA DESIGNATION OF BUILDING (EXAMPLE: C = CASCADE, L = LAIDLAW)

Y --- NUMERICAL DESIGNATION OF CABLE (CABLES LABELED SEQUENTIALLY PER TELECOM ROOM)

COMMUNICATIONS OUTLET LABELING CONVENTION

NOTES:

1. LABELING OF TERMINATION HARDWARE
   A. TERMINATION OF HORIZONTAL UTP CABLE IN THE TELECOM ROOM SHALL BE ON MODULAR PATCH PANELS, 48 PORT CAPACITY.
   B. ALL HORIZONTAL UTP CABLES SHALL BE LABELED WITH CABLE ID NUMBERS ON A BLUE LABEL INSERT INSERTED IN A TRANSPARENT LABEL COVER AT THE PATCH PANEL MODULAR JACK.
   C. LABELS FOR TERMINATION HARDWARE SHALL BE TYPE-WRITTEN.
   D. ALL HORIZONTAL 4 PAIR CABLES SHALL BE LABELED IN ACCORDANCE WITH THE TIA/EIA-606-A LABELING STANDARD. SEE DETAIL, THIS DRAWING.
   E. ALL JACKS SHALL BE LABELED AT THE OUTLET FACEPLATE AND THE PATCH PANEL.
3. CROSS CONNECT WIRE & WIRE TROUGHS
   A. CABLE MANAGEMENT SECTIONS SHALL BE LOCATED HORIZONTALLY BETWEEN PATCH PANELS. CABLE MANAGEMENT SECTIONS SHALL BE 2U HIGH.



1. STEEL BACK PLATE, BLACK COLOR
2. LABEL, PAPER, NON-ADHESIVE, BLUE COLOR, PRINTED TEXT AS APPROVED BY OWNER, INSERTED INTO TRANSPARENT LABEL HOLDER.
3. 8-POSITION, 8 CONDUCTOR, JACK (RJ-45), VOICE & DATA APPLICATIONS, T568B, NON KEYED.
4. LABEL, PHENOLIC PLASTIC, ADHESIVE, BLACK TEXT ON WHITE LABEL.

MODULAR PATCH PANEL COMPONENT LEGEND

PRELIMINARY 1-5-16

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DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL – ANCILLARIES DETAILS

Revisions:

Drawn: KL

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Date: 1-5-16

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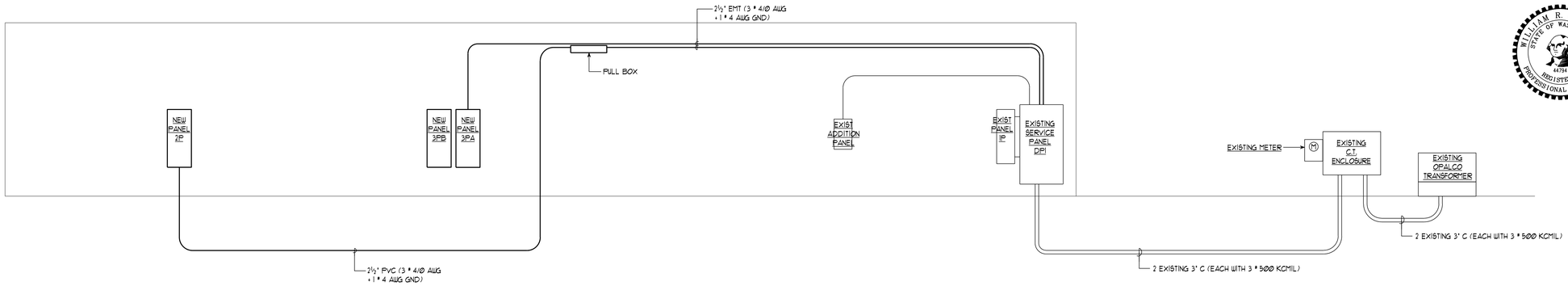

POWER SYSTEM RISER DIAGRAM

SCALE: NONE

EXISTING PANEL DP1 — ELECT ROOM 10

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: GE SPECTRA SERIES PANELBOARD
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: BOLT-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 800 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

EX. MASTER NAMEPLATE
EX. GROUND BAR

MAIN: CIRCUIT BREAKER
CONTINUOUS RATING: 700 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE
LOCATION: BOTTOM

SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting		4200.0	4200.0	1.25	5250.0
Gen. Purpose Outlets (First 10 KVA)		0.0	0.0	1.00	0.0
Gen. Purpose Outlets (Remainder)		17460.0	17460.0	0.50	8730.0
Special Purpose Outlets		0.0	0.0	1.00	0.0
Mechanical Equipment		54479.0	54479.0	1.00	54479.0
Kitchen Equipment & Appliances		2400.0	2400.0	1.00	2400.0
Miscellaneous		1012.0	1012.0	1.00	1012.0
25% Largest Motor					0.0
Peak Demand per OPALCO	55200.0		55200.0	1.25	69000.0
Billing History					
TOTAL LOAD	55200.0	79551.0	134751.0		140871.0
TOTAL AMPS	230.0	331.5	561.5		587.0

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
1069.5	OHP-1		20/3	1	A	2	20/1	WH-2		1500.0
				3		4				
1069.5				5	B	6	20/1	WH-1		1500.0
1069.5	ADDITION HEAT PUMP # 6		20/3	7	A	8	50/3	ADDITION PANEL		2700.0
				9		10				
1069.5				11	B	12				2352.0
2380.5	OHP-4B		40/3	13	A	14	30/3	IHP-1		2684.0
				15		16				
2380.5				17	B	18				2684.0
2380.5	OHP-4A		50/3	19	A	20	50/3	IHP-4B		4071.0
				21		22				
2380.5				23	B	24				4071.0
2553.0	OHP-5		60/3	25	A	26	50/3	IHP-4A		4071.0
				27		28				
2553.0				29	B	30				4071.0
3335.0	OHP-3		70/3	31	A	32	70/3	IHP-5		5232.5
				33		34				
3335.0				35	B	36				5232.5
8224.5	IHP-3		100/3	37	A	38	60/3	ADDITION AIR HANDLERS		4299.0
				39		40				
8224.5				41	B	42				4299.0
14878.0	PANEL 1P		175/2	43	A	44	SPACE			0.0
12685.0				45	B	46	SPACE			0.0
25739.5	PANEL 2PA - ADDITION	(1)	225/2	47	A	48	225/2	PANEL 3PA - ADDITION	(1)	13466.0
25739.5				49	B	50				14606.0
			MAIN CIRCUIT BREAKER							

NOTES:
(1) NEW FEEDER CONNECTED TO EXISTING SPARE CIRCUIT BREAKER.
(2) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.

EXISTING PANEL 1P — ELECT ROOM 10

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: GE A SERIES PANELBOARD
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: BOLT-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 225 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

MASTER NAMEPLATE
GROUND BAR

MAIN: LUGS ONLY
LOCATION: BOTTOM

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting	7170.0	0.0	7170.0	1.25	8962.5
Gen. Purpose Outlets (First 10 KVA)	10000.0	0.0	10000.0	1.00	10000.0
Gen. Purpose Outlets (Remainder)	7640.0	0.0	7640.0	0.50	3820.0
Special Purpose Outlets	0.0	0.0	0.0	1.00	0.0
Mechanical Equipment	0.0	0.0	0.0	1.00	0.0
Kitchen Equipment & Appliances	1200.0	0.0	1200.0	1.00	1200.0
Miscellaneous	1553.0	0.0	1553.0	1.00	1553.0
25% Largest Motor					0.0
TOTAL LOAD	27563.0	0.0	27563.0		25535.5
TOTAL AMPS	114.8	0.0	114.8		106.4

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
512.0	LTG - CHILDREN / LOAD MANAGEMENT BOX		20/2	1	A	2	20/1	LTG - MEETING ROOM, KITCHENETTE, STOR.		556.0
244.0	LTG - NIGHT LIGHT BEAM / LOAD MANAGEMENT BOX			3	B	4	20/1	LTG - LOBBY, RESTROOMS		400.0
528.0	LTG - HALL, OFFICE, STAFF, MECH/ELECT		20/1	5	A	6	20/1	LTG - WORKROOM		750.0
288.0	LTG - EXTERIOR		20/1	7	B	8	20/1	LTG - READING ROOM SCONCE		480.0
488.0	LTG - READING ROOM BEAM		20/1	9	A	10	20/1	LTG - READING ROOM SCONCE		480.0
488.0	LTG - READING ROOM BEAM		20/1	11	B	12	20/1	LTG - PERIODICAL & DOOR OPERATORS		767.0
224.0	LTG - READING ROOM STUDY TABLE		20/1	13	A	14	20/1	LTG - READING ROOM STACK LIGHTS		990.0
550.0	LTG - PARKING LOT POLES		20/1	15	B	16	20/1	OUTLETS - WORKROOM PLUG STRIP		1080.0
360.0	OUTLETS - MEETING ROOM COUNTER		20/1	17	A	18	20/1	OUTLETS - WORKROOM PLUG STRIP		1080.0
360.0	OUTLETS - MEETING ROOM FLOOR		20/1	19	B	20	20/1	OUTLETS - WORKROOM PLUG STRIP		1260.0
540.0	OUTLETS - READING ROOM, RESTROOMS		20/1	21	A	22	20/1	OUTLETS - WORKROOM PLUG STRIP		1080.0
360.0	OUTLETS - MEETING ROOM & WORKROOM GFI		20/1	23	B	24	20/1	OUTLETS - WORKROOM PLUG STRIP		900.0
1200.0	OUTLET - MEETING ROOM REFRIGERATOR		30/1	25	A	26	20/1	OUTLETS - WORKROOM PLUG STRIP		900.0
180.0	OUTLET - TELEPHONE BOARD		20/1	27	B	28	20/1	OUTLETS - CHILDRENS & EXTERIOR		900.0
540.0	OUTLETS - OFFICE, STAFF		20/1	29	A	30	20/1	OUTLETS - PERIODICALS & CHILDRENS		900.0
720.0	OUTLETS - OFFICE, STAFF		20/1	31	B	32	20/1	OUTLETS - PERIODICALS & READING ROOM		900.0
540.0	OUTLETS - STAFF KITCHENNETTE, RESTROOM		20/1	33	A	34	20/1	OUTLETS - READING ROOM		900.0
720.0	OUTLETS - STOR., MECH		20/1	35	B	36	20/1	OUTLETS - HELP DESK		540.0
720.0	OUTLETS - STOR, MECH & EXTERIOR		20/1	37	A	38	20/1	OUTLETS - HELP DESK		540.0
828.0	SEWER PUMP		20/1	39	B	40	20/1	OUTLETS - READING ROOM		720.0
150.0	SECURITY PANEL		20/1	41	A	42	20/1	OUTLETS - READING ROOM		900.0
			MAIN LUGS							

NOTES:
(1) MODIFIED EXISTING CIRCUIT ON EXISTING CIRCUIT BREAKER
(2)
(3) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.

EXISTING ADDITION PANEL — SOUTHEAST WORKROOM

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: SIEMENS LOADCENTER
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: PLUG-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 100 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

MASTER NAMEPLATE
GROUND BAR

MAIN: CIRCUIT BREAKER
CONTINUOUS RATING: 100 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE
LOCATION: BOTTOM

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting	432.0	0.0	432.0	1.25	540.0
Gen. Purpose Outlets (First 10 KVA)	2880.0	0.0	2880.0	1.00	2880.0
Gen. Purpose Outlets (Remainder)	0.0	0.0	0.0	0.50	0.0
Special Purpose Outlets	540.0	0.0	540.0	1.00	540.0
Mechanical Equipment	0.0	0.0	0.0	1.00	0.0
Kitchen Equipment & Appliances	1200.0	0.0	1200.0	1.00	1200.0
Miscellaneous	0.0	0.0	0.0	1.00	0.0
25% Largest Motor					0.0
TOTAL LOAD	5052.0	0.0	5052.0		5160.0
TOTAL AMPS	21.1	0.0	21.1		21.5

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
			MAIN CIRCUIT BREAKER							
540.0	KITCHEN APPLIANCE		20/1	1	A	2	20/1	OUTLET - CLOSET LEFT		360.0
1200.0	REFER		20/1	3	B	4	20/1	OUTLET - CLOSET RIGHT		360.0
1080.0	OUTLETS - STORAGE, OFFICE		20/1	5	A	6	20/1	OUTLET - COMPUTER ROOM		720.0
360.0	OUTLET - HALL		20/1	7	B	8	20/1	LTG - ADDITION		432.0
0.0			SPACE	9	A	10	SPACE			0.0
0.0			SPACE	11	B	12	SPACE			0.0

NEW PANEL 2PA — MECHANICAL ROOM

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: GE PANELBOARD
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: BOLT-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 225 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

MASTER NAMEPLATE
GROUND BAR

MAIN: LUGS ONLY
LOCATION: TOP

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting	0.0	0.0	0.0	1.25	0.0
Gen. Purpose Outlets (First 10 KVA)	0.0	0.0	0.0	1.00	0.0
Gen. Purpose Outlets (Remainder)	0.0	0.0	0.0	0.50	0.0
Special Purpose Outlets	0.0	0.0	0.0	1.00	0.0
Mechanical Equipment	0.0	51479.0	51479.0	1.00	51479.0
Kitchen Equipment & Appliances	0.0	0.0	0.0	1.00	0.0
Miscellaneous	0.0	0.0	0.0	1.00	0.0
25% Largest Motor					0.0
TOTAL LOAD	0.0	51479.0	51479.0		51479.0
TOTAL AMPS	0.0	214.5	214.5		214.5

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
			MAIN LUGS							
2553.0	OUTDOOR UNIT HP-1		40/2	1	A	2	50/2	INDOOR UNIT AHU-1		4633.5
2553.0				3	B	4				4633.5
2012.5	OUTDOOR UNIT HP-2		30/2	5	A	6	50/2	INDOOR UNIT AHU-2		4403.5
2012.5				7	B	8				4403.5
2012.5	OUTDOOR UNIT HP-3		30/2	9	A	10	40/2	INDOOR UNIT AHU-3		2963.5
2012.5				11	B	12				2963.5
3841.0	OUTDOOR UNIT HP-4		50/2	13	A	14	40/2	INDOOR UNIT AHU-4		3320.0
3841.0				15	B	16				3320.0
0.0	SPARE		40/2	17	A	18	50/2	SPARE		0.0
0.0				19	B	20				0.0
0.0				21	A	22				0.0
0.0				23	B	24				0.0
0.0				25	A	26				0.0
0.0				27	B	28				0.0
0.0				29	A	30				0.0
0.0				31	B	32				0.0
0.0				33	A	34				0.0
0.0				35	B	36				0.0
0.0				37	A	38				0.0
0.0				39	B	40				0.0
0.0				41	A	42				0.0

NEW PANEL 3PA — ELECTRICAL ROOM 50

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: GE PANELBOARD
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: BOLT-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 225 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

MASTER NAMEPLATE
GROUND BAR

MAIN: LUGS ONLY
LOCATION: TOP

FEED THROUGH LUGS

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting	0.0	4200.0	4200.0	1.25	5250.0
Gen. Purpose Outlets (First 10 KVA)	0.0	10000.0	10000.0	1.00	10000.0
Gen. Purpose Outlets (Remainder)	0.0	7460.0	7460.0	0.50	3730.0
Special Purpose Outlets	0.0	0.0	0.0	1.00	0.0
Mechanical Equipment	0.0	3000.0	3000.0	1.00	3000.0
Kitchen Equipment & Appliances	0.0	2400.0	2400.0	1.00	2400.0
Miscellaneous	0.0	1012.0	1012.0	1.00	1012.0
25% Largest Motor					0.0
TOTAL LOAD	0.0	28072.0	28072.0		25392.0
TOTAL AMPS	0.0	117.0	117.0		105.8

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
			MAIN LUGS							
360.0	OUTLETS - LRG GROUP 40, EXTERIOR		20/1	1	A	2	20/1	OUTLETS - YOUNG ADULT		720.0
360.0	OUTLETS - ELECT 50		20/1	3	B	4	20/1	OUTLETS - YOUNG ADULT		720.0
360.0	OUTLETS - TELECOM RACK		20/1	5	A	6	20/1	OUTLETS - MECH., EXTERIOR		720.0
360.0	OUTLETS - TELECOM RACK		20/1	7	B	8	20/1	OUTLETS - COMMUNITY ROOM		720.0
720.0	OUTLETS - CIRC DESK		20/1	9	A	10	20/1	OUTLETS - COMMUNITY ROOM		720.0
720.0	OUTLETS - CIRC DESK		20/1	11	B	12	20/1	OUTLETS - COMMUNITY ROOM		720.0
720.0	OUTLETS - READING ROOM		20/1	13	A	14	20/1	OUTLET - COMMUNITY ROOM PROJECTOR		720.0
720.0	OUTLETS - READING ROOM		20/1	15	B	16	20/1	OUTLET - COMMUNITY ROOM AV EQUIPMENT		720.0
720.0	OUTLETS - COMPUTER AREA		20/1	17	A	18	20/1	OUTLETS - KITCHENETTE		720.0
720.0	OUTLETS - COMPUTER AREA		20/1	19	B	20	20/1	OUTLET - REFRIGERATOR		1200.0
720.0	OUTLETS - WORK TABLES		20/1	21	A	22	20/1	OUTLET - MICROWAVE		1200.0
500.0	LOBBY WALL HEATER		20/1	23	B	24	20/1	SPARE		0.0
500.0	MECHANICAL ROOM WALL HEATER		30/1	25	A	26	20/1	SPARE		0.0
0.0	SPARE		20/1	27	B	28	20/1	SPARE		0.0
720.0	OUTLETS - CHILDRENS ROOM		20/1	29	A	30	20/1	OUTLETS - TOILET ROOMS, HALLWAY		900.0
720.0	OUTLETS - CHILDRENS ROOM		20/1	31	B	32	20/1	DOOR OPERATOR - LOBBY		506.0
720.0	OUTLETS - SM GROUP, OFFICE		20/1	33	A	34	20/1	DOOR OPERATOR - LOBBY		506.0
720.0	OUTLETS - SM GROUP, OFFICE		20/1	35	B	36	20/1	SPARE		0.0
720.0	OUTLETS - SM GROUP, YOUNG ADULT		20/1	37	A	38	20/1	SPARE		0.0
1000.0	WATER HEATER		20/2	39	B	40	20/1	SPARE		0.0
1000.0				41	A	42	20/1	SPARE		0.0
			FEED THROUGH LUGS					PANEL 3PB		4200.0 0.0

NEW PANEL 3PB — ELECTRICAL ROOM 50

VOLTAGE: 120/240V, 1 PH, 3 W
TYPE: GE PANELBOARD
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

FEEDER/BRANCH CIRCUIT DEVICES: BOLT-ON CIRCUIT BREAKERS
FULL AIC RATING: 10,000 A
SERIES AIC RATING: 22,000 A

SPECIAL PROVISIONS:

BUSSING: MANUFACTURER'S STANDARD
CONTINUOUS RATING: 225 A
FULL AIC RATING: 22,000 A
SERIES AIC RATING: NONE

MASTER NAMEPLATE
GROUND BAR

MAIN: LUGS ONLY
LOCATION: BOTTOM

ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA) EXIST.	NEW	TOTAL	DEMAND FACTOR	DEMAND LOAD (VA)
Lighting	0.0	4200.0	4200.0	1.25	5250.0
Gen. Purpose Outlets (First 10 KVA)	0.0	0.0	0.0	1.00	0.0
Gen. Purpose Outlets (Remainder)	0.0	0.0	0.0	0.50	0.0
Special Purpose Outlets	0.0	0.0	0.0	1.00	0.0
Mechanical Equipment	0.0	0.0	0.0	1.00	0.0
Kitchen Equipment & Appliances	0.0	0.0	0.0	1.00	0.0
Miscellaneous	0.0	0.0	0.0	1.00	0.0
25% Largest Motor					0.0
TOTAL LOAD	0.0	4200.0	4200.0		5250.0
TOTAL AMPS	0.0	17.5	17.5		21.9

CONN. LOAD (VA)	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	BKR AMP/P	CKT NO	BUS (PHASE)	CKT NO	BKR AMP/P	FEEDER/BRANCH CIRCUIT DESCRIPTION	NOTE	CONN. LOAD (VA)
0.0	SPARE		20/1	1	A	2	20/1	LTG - LRG GROUP, ELECT		4200.0
0.0	SPARE		20/1	3	B	4	20/1	LTG - CIRC DESK, SOUTH VESTIBULE		0.0
0.0	SPARE		20/1	5	A	6	20/1	LTG - LOBBY, RESTROOMS, KITCHENNETTE		0.0
0.0	SPARE		20/1	7	B	8	20/1	LTG - READING ROOM		0.0
0.0	SPARE		20/1	9	A	10	20/1	LTG - COMMUNITY ROOM		0.0
0.0	SPARE		20/1	11	B	12	20/1	LTG - CHILDRENS ROOM, OFFICE, SM GROUP		0.0
0.0	SPARE		20/1	13	A	14	20/1	LTG - MECH, YOUNG ADULT		0.0
0.0	SPARE		20/1	15	B	16	20/1	LTG - EXTERIOR		0.0
0.0			SPACE	17	A	18	SPACE			0.0
0.0			SPACE	19	B	20	SPACE			0.0
0.0			SPACE	21	A	22	SPACE			0.0
0.0			SPACE	23	B	24	SPACE			0.0
0.0			SPACE	25	A	26	SPACE			0.0
0.0			SPACE	27	B	28	SPACE			0.0
0.0			SPACE	29	A	30	SPACE			0.0
0.0			SPACE	31	B	32	SPACE			0.0
0.0			SPACE	33	A	34	SPACE			0.0
0.0			SPACE	35	B	36	SPACE			0.0
0.0			SPACE	37	A	38	SPACE			0.0
0.0			SPACE	39	B	40	SPACE			0.0
0.0			SPACE	41	A	42	SPACE			0.0
			MAIN LUGS							

PRELIMINARY 1-5-16

DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL - POWER SYSTEM RISER DIAGRAM & PANEL SCH.

Revisions:

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Date: 1-5-16

Job No: 1726

Sheet No: E6.1

HKP to review with layout and cut sheets.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MANUFACTURER & CAT. NO. (OR APPROVED EQUAL)	LAMP(S)	LOADS WATTS	LOADS VA
A	LED DIRECT/INDIRECT TROFFER, GRID MTD., 2' x 4' x 4.5", STATIC, WITH 1 HIGH EFFICIENCY 0-10V DIMMING DRIVER, 7000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, ACRYLIC SWING-DOWN DIFFUSER AND WHITE INTERIOR REFLECTOR.	277	COLUMBIA LTRE24-35VLG-RFA-ED DAYBRITE 2EVG-74LH-835-4-D-DIM LITHONIA 2VTL4-72L-ADP-EZ1-LP835	LED 3500K (INTEGRAL)	74	78
B	LED DIRECT/INDIRECT TROFFER, GRID MTD., 2' x 4' x 4.5", STATIC, WITH 1 HIGH EFFICIENCY 0-10V DIMMING DRIVER, 5500 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, ACRYLIC SWING-DOWN DIFFUSER AND WHITE INTERIOR REFLECTOR.	277	COLUMBIA LTRE24-35HLG-RFA-ED DAYBRITE 2EVG-54LH-835-4-D-DIM LITHONIA 2VTL4-60L-ADP-EZ1-LP835	LED 3500K (INTEGRAL)	52	55
C	LED DIRECT/INDIRECT TROFFER, GRID MTD., 2' x 2' x 4.5", STATIC, WITH 1 HIGH EFFICIENCY 0-10V DIMMING DRIVER, 4000 LUMEN OUTPUT, 3500K COLOR TEMPERATURE, ACRYLIC SWING-DOWN DIFFUSER AND WHITE INTERIOR REFLECTOR.	277	COLUMBIA LTRE22-35HLG-RFA-ED DAYBRITE 2EVG-45L-835-2-D-DIM LITHONIA 2VTL2-40L-ADP-EZ1-LP835	LED 3500K (INTEGRAL)	40	42
D						
E						
F	LED OPEN STRIP LIGHT, 4' LONG, SURFACE MTD (UNLESS NOTED OTHERWISE), SUITABLE FOR DAMP LOCATIONS, HIGH EFFICIENCY DRIVER, 5000 LUMEN (MIN.) OUTPUT, 3500K COLOR TEMPERATURE, PAINTED STEEL HOUSING (WHITE).	277	COLUMBIA LCS-4-35-ML-E LITHONIA ZL1N-L48"-5000LM-L/LENS-3500K-80CRI-WH WILLIAMS 75-4-L50/835-DRV	LED 3500K (INTEGRAL)	50	53
G						
H						
J						
K	LED WALL MTD. BATHROOM BRACKET, 2' x 4.5" x 4.5", 2200 LUMEN OUTPUT, SUITABLE FOR DAMP LOCATIONS, 3500K COLOR TEMPERATURE WITH HIGH EFFICIENCY DRIVER.	277	LITHONIA WL2-22L-EZ1-LP835 METALUX 2BCLED-LD4-20SL-1 WILLIAMS SLF-2-L26/835-HIA-UNV	LED 3500K (INTEGRAL)	23	25
L						
M	LED RECESSED DOWNLIGHT, 1800 (MIN) LUMEN OUTPUT, 6" APERTURE x 9" HIGH (MAX), MEDIUM THROW DISTRIBUTION, 3500K COLOR TEMPERATURE, HIGH EFFICIENCY 0-10V DIMMING DRIVER, THERMALLY PROTECTED WITH DIECAST ALUMINUM HEAT SINK, SEMI-SPECULAR ALUMINUM REFLECTOR & WHITE SELF-FLANGE.	277	INDY L6-1735-G2 L600P-CQ-WH GOTHAM EV0 35/18 6AR MD LSS EZ1 TRW PORTFOLIO LD6A-20-D010TE ERM6A20-80-35 6LM1-H-WF VANTAGE A6VOPLED-2035K L6060SGC WILLIAMS LED60-PH20/835-CS-EDD*PH	LED 3500K (INTEGRAL)	28	30
N						
P						
Q						
R						
S						
T	LED DIRECT/INDIRECT MODULAR, 20' LONG, PENDANT MTD. 30,000 LUMEN OUTPUT, 40% UP & 60% DOWN LIGHT, 3500K COLOR TEMP. DIE-CAST ALUMINUM HOUSING (WHITE), SUITABLE FOR DAMP LOCATIONS, END CAPS, CLEAR EXTRUDED DUST COVER FOR INDIRECT OPTICS & CLEAR EXTRUDED ACRYLIC LENS FOR DIRECT OPTICS. PROVIDE AIRCRAFT CABLE, FIXTURE HOOKS/BRACKETS, CONNECTERS, ETC. AS REQUIRED FOR 12'-0" (MIN.) PENDANT MOUNTING CAPABILITIES.	277	PAL MLS5-I/D-MO/HO-K35-20'-CN-DC/LOH-F01M	LED 3500K (INTEGRAL)	375	395
U						
V						
W						
X	COMBINATION LIGHTED EXIT SIGN & EMERGENCY LIGHTING U LED TYPE, SINGLE FACE, UNIVERSAL MOUNT, WHITE WITH GREEN LETTERS, POLYCARBONATE OR THERMOPLASTIC HOUSING, SELF CONTAINED NI-CAD BATTERIES & BUILT-IN DIAGNOSTICS.	120	CHLOIRDE CCTXL-1-G-W-H DUAL-LITE LTUGW-I EXITRONIX GVEX-U-BP-WH-EL90-G2 LIGHTOLIER LLC2-U-GW-SD LITHONIA LHQM-SW-3-G-SD SURELIGHT CCX-7-1-70-G-WH-SD-DH	(INCLUDED)	5	8
Y	EMERGENCY LIGHTING UNIT, WALL MTD., SELF- CONTAINED, COMPACT LOW PROFILE DESIGN, WITH 2 FULLY ADJUSTABLE LIGHTING HEADS, TUNGSTEN LAMPS & BUILT-IN DIAGNOSTICS	120	PHILIPS GM2-AD DUAL-LITE EZ-2I EMERGILITE ECC18-2HA-ADNA EXITRONICS LL90-NC-G2 LIGHTOLIER E112N-T6-W-SD LITHONIA ELM2-SD SURELITE CC3NC-WH-SD	(INCLUDED)		
AA						
BB						

NOTES:

1. CABLES IN FIXTURE WHIPS FURNISHED BY THE MANUFACTURER WITH THE FIXTURES SHALL NOT BE SMALLER THAN #14 AWG, AND SHALL INCLUDE A SEPARATE GROUND CONDUCTOR SIZED THE SAME AS THE CIRCUIT CONDUCTORS.
2. CONTRACTOR & LIGHTING FIXTURE SUPPLIER SHALL VERIFY DESCRIPTION, MOUNTING REQUIREMENTS, CATALOG NUMBERS, ETC. MATCH. ADVISE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
3. ALL LED 0-10V DIMMING DRIVERS SHALL BE COMPATIBLE WITH MOTION CONTROLLERS, PHOTO-CONTROLLERS, DIMMER SWITCHES, ETC.

PRELIMINARY 1-5-16

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DESIGN DEVELOPMENT

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
ELECTRICAL – LIGHTING FIXTURE SCHEDULE

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Job No: 1726

Sheet No: E6.2

Abbreviations

A	Amperes
AFF	Above Finished Floor
ALS	Assisted Listening System
Amp	Amplifier
AV	Audio/Video
AWG	American Wire Gage
BFC	Below Finished Ceiling
C	Conduit
CC	Contact Closure
Comp	Composite Video
CPU	Central Processing Unit
DA	Distribution Amplifier
dB	Decibel
dBA	Decibel "A" Weighted
dBC	Decibel "C" Weighted
Deg	Degree
Div	Division
DPDT	Double Pole, Double Throw
DSP	Digital Signal Processor
Ea	Each
EQ	Equalizer
FP	Flat Panel Display
FOH	Front Of House
FBOIC	Furnished by Owner, Installed by Contractor
HF	High Frequency
Hz	Hertz
ICM	Production Intercom
IR	Infrared Control
L+R	Left + Right Audio
LF	Low Frequency
Max	Maximum
MF	Mid Frequency
Min	Minimum
NEC	National Electric Code
NIC	Not In Contract
NTS	Not To Scale
OFE	Owner-Furnished Equipment
PBO	Provided By Others
PTZ	Pan, Tilt, Zoom
RCP	Reflected Ceiling Plan
Req	Required
RGB	Primary Color Component Video w. Separate Sync
S	Speaker
SMR	Surface Metal Raceway
Spec	Specification
TBD	To Be Determined
TC	Terminal Cabinet
Typ	Typical
UON	Unless Otherwise Noted
VP	Video Projector
VTC	Video Teleconference
V	Volt
W/	With
W/O	Without
Y/C	Luminance/Composite Color Video
YUV	Color Difference Component Video

Note: Drawings may not contain all abbreviations shown.

General Notes

Wiring

1. Assign each cable a unique identifier. Mark each cable on both ends with that identifier using a permanent tag. Indicate each identifier on the as-builts and in a terminal and on wire schedule.

General

2. Verify exact locations of devices with owner prior to roughing in.
3. Refer to EA series drawings for raceway.
4. Hanging or free standing equipment and cabinets furnished shall be secured to substantial building structure so as to resist seismic acceleration in any direction up to 1.0G, or the limit proscribed by governing codes whichever is greater.
5. Equipment hanging and mounting details, rack bracing, and other seismic restraints are not shown on the contract documents. The contractor is responsible for seismic restraints.

Wire Types

M	=	Mic Level Audio
L	=	Line Level Audio
SPB	=	Speaker Level Audio
S70	=	"70 Volt" Speaker Audio
INT	=	Intercom
V	=	Composite Video
YC	=	S-Video
YUV	=	YUV "Component" Video
RGB	=	RGBHV Video
TV	=	CATV
A	=	Antenna
CTL	=	Control – RS-232
CTLA	=	Control – IR
CTLB	=	Control – Control Bus
CTLC	=	Control – Contact Closure
CAT	=	Category Cable
KRM	=	Kramer Category Cable
DC	=	DC Power

Quantity of cables is indicated by the number in parentheses in front of cable type designation. For example: (2)RGB indicates two runs of RGBHV Video cable.

A series of dots between items indicates quantity is shown or specified elsewhere.

Device Legend

Symbol	Device
FB	Floorbox
IO	Audio IO Box
ALS	Assistive Listening
S	Speaker Cluster
S	Ceiling Speaker
VP	Video Projector
	Projection Screen
	Equipment Rack
C	Camera
TC	Terminal Cabinet
SW	Projection Screen Switch
CP	Control Panel

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SCHEMATIC DESIGN

Project Title:
ORCAS ISLAND LIBRARY EXPANSION
500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
SYMBOLS/NOTES

Revisions:

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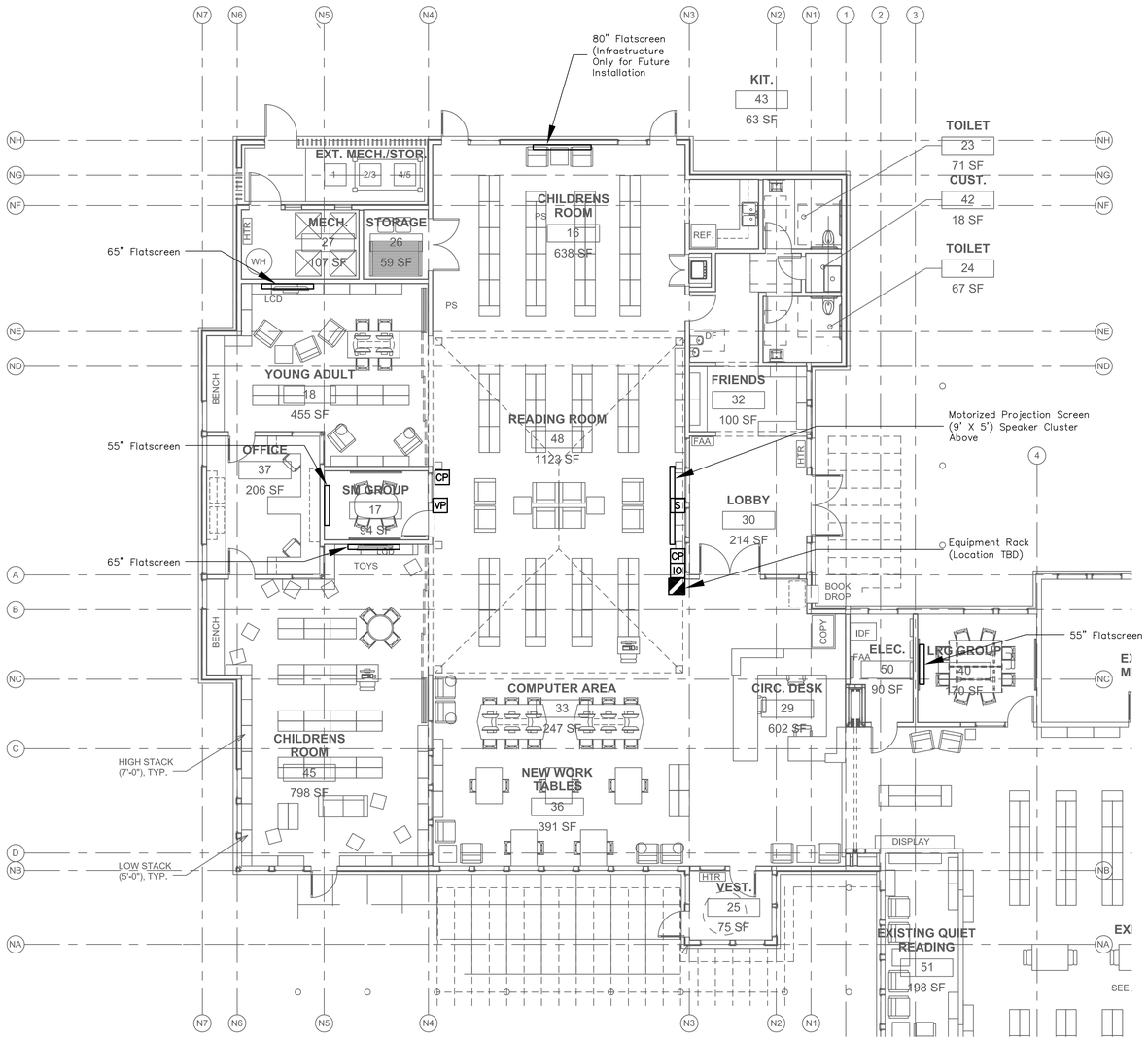
Job No:

Sheet No:
AV0.1

VIEW NAME: PLOT DATE: LAYERS ON:



1 FLOOR PLAN - AV SYSTEMS
NTS

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SCHEMATIC DESIGN

Project Title:
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500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
AV/FLOOR

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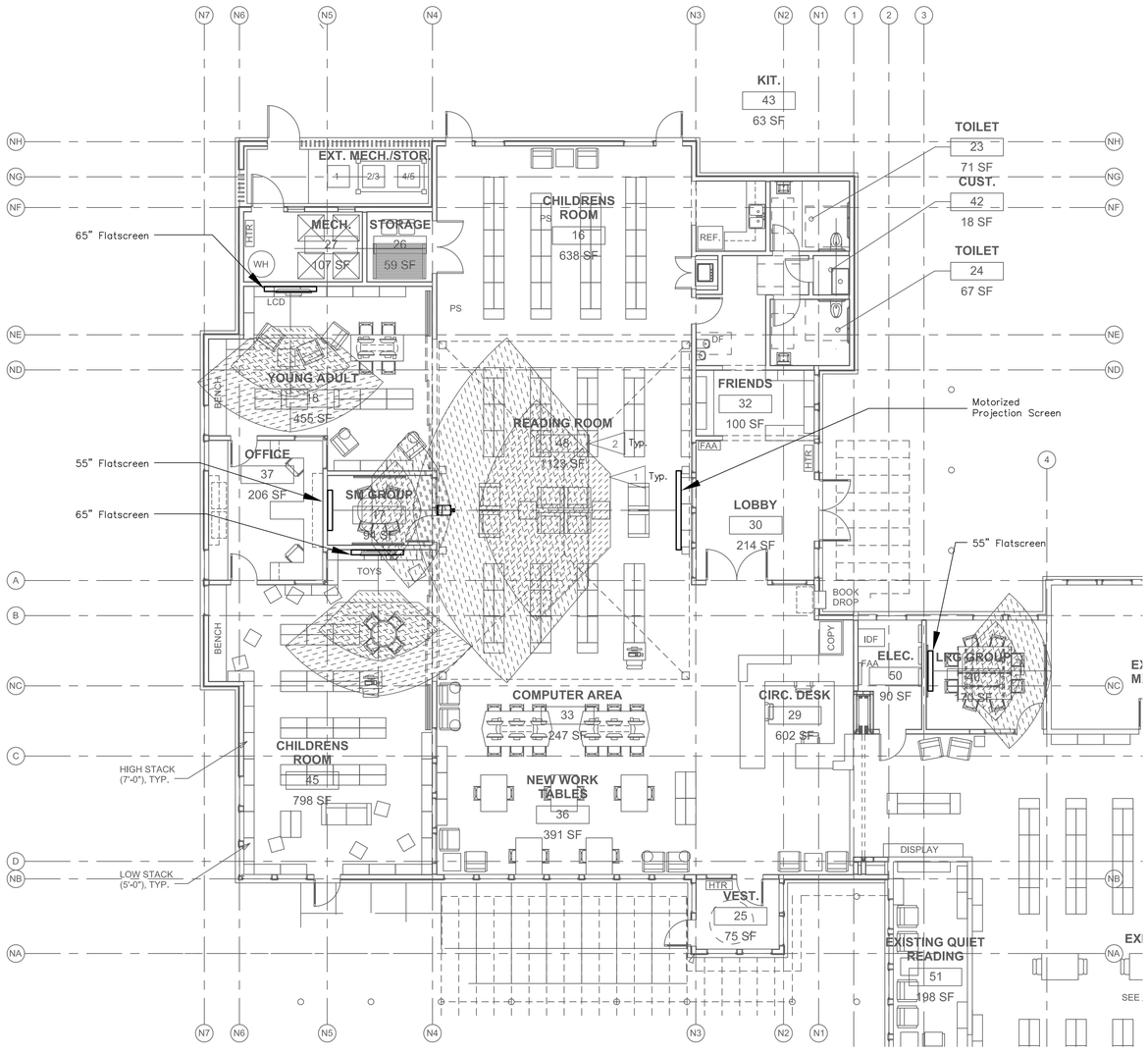
Sheet No:
AV1.1

VIEW NAME: PLOT DATE: LAYERS ON:



1 FLOOR PLAN - SIGHTLINES
NTS

Notes

- Acceptable viewing for high–resolution image is indicated by the smaller area of hatching. Based on 1.5 times the screen height to 4.5 times the screen height with no viewer being more than 45 degree off axis for any part of the image.
- Acceptable viewing for standard definition video and moving images is indicated by the larger area of hatching. Based on 2 times the screen height to 6 times the screen height with no viewer being more than 50 degree off axis for any part of the image.

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SCHEMATIC DESIGN

Project Title:
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500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
SIGHTLINES

Revisions:

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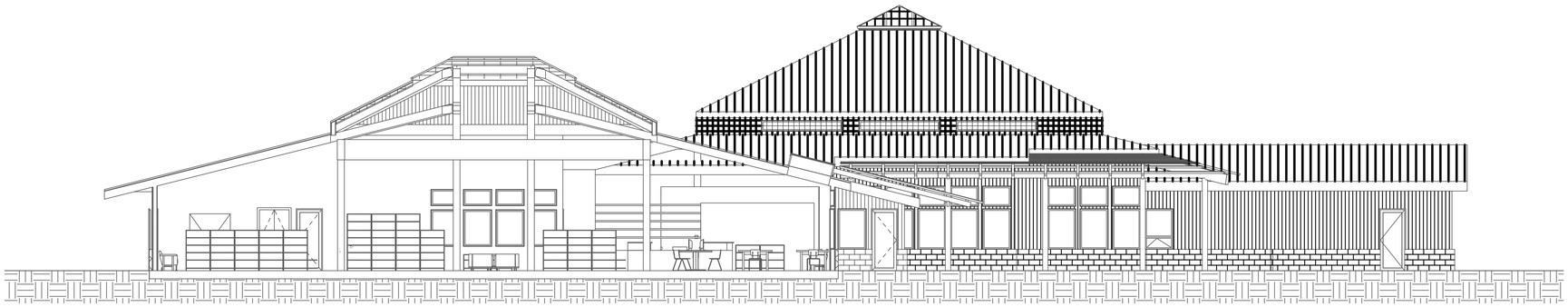
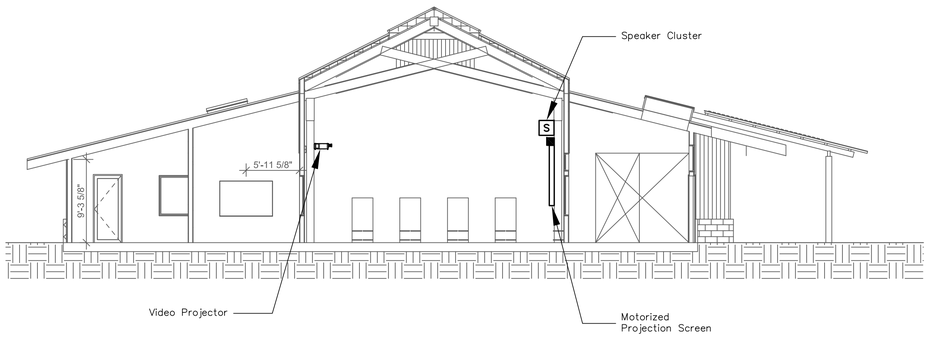
Job No:

Sheet No:
AV1.2

VIEW NAME: PLOT DATE: LAYERS ON:



1 SECTION VIEW LOOKING EAST
NTS



2 SECTION VIEW LOOKING NORTH
NTS

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SCHEMATIC DESIGN

Project Title:
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500 ROSE STREET
EASTSOUND, WA 98245

Sheet Contents:
AV/SECTION

Revisions:

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Job No:

Sheet No:
AV2.1

VIEW NAME: PLOT DATE: LAYERS ON: