PROJECT DATA

PROJECT ADDRESS
425 URBAN PLAZA
KIRKLAND, WA 98033

TAX ASSESSOR'S NUMBER
124870-0051

BUILDING DESCRIPTION
TO-BE CONSTRUCTED 295,137 GSF 8-STORY MIXED-USE HIGH-RISE BUILDING.
RELATED BUILDING PERMIT # BNR16-01620

PROJECT DESCRIPTION
TENANT IMPROVEMENT TO CONSTRUCT A 13,781 SF CHILDCARE FACILITY CAPABLE OF ACCOMMODATING UP TO 172 CHILDREN AND CONSTRUCTION OF ASSOCIATED 5,465 SF EXTERIOR PLAY AREA. FULL SCOPE INTERIOR TENANT IMPROVEMENTS INCLUDING CONSTRUCTION OF NON-STRUCTURAL WALLS, HVAC, PLUMBING, & ELECTRICAL DISTRIBUTION, ETC. PLAYGROUND WORK INCLUDES CONSTRUCTION OF EXTERIOR PLAY AREA INCLUDING FENCING, PLAY SURFACE, AND PLAY EQUIPMENT.

AUTHORITY HAVING JURISDICTION
CITY OF KIRKLAND

LEGAL DESCRIPTION:
BURKE & FARRARS KIRKLAND DIV 339 LOTS 1 THRU 17 BLK 174 SD PLAT TGW POR SE 1/4 OF SW 1/4 SEC 5-25-5 LY NLY OF KIRKLAND WAY & SELY OF CENTRAL WAY & WLY OF SD PLAT OF BURKE & FARRARS KIRKLAND DIV #39 & WLY OF LN BEG O N MGN SD KIRKLAND WAY AAP 168.71 FT NO OF & 708 FT W OF SE COR SD SUBD TH RNNG N 00-21-00 W 660 FT M/LO TO S LN SD PLAT OF BURKE & FARRARS & TERM SD LN LESS POR SD SUBD LY WLY OF LN BEG AT PT ON S LN SD SUBD N 89-39 E 1511.50 FT FR COR COMMON TO SECS 5 & 8 TWSP 25 RNG 5 TH N 00-21 W 990.20 FT TO NXN WITH S MGN CENTRAL AVE & TERN THIS LN ALSO LESS OR LY SLY OF LN BEG 708 FT W & 168.71 FT N OR SE COR SD SUBD AAP ON N MGN SD KIRKLAND WAY TH N 00-21 W 149 FT TH 89-46-25 W 2.87 FT TH S 89-34-30 W 166.54 FT TH N 00-25-30 W 0.58 FT TH S 89-46-25 W 166.54 FT TO W LN SD PAR DESC & TERM THIS LN DESC.

SITE AREA
501,383 SF

BUILDING AREA (BUILDING-F)
295,137 SF
(2) LEVELS BELOW GRADE PARKING
(1) LEVEL OF GROCERY
(1) LEVEL CHILD-CARE & RESTAURANTS
(6) LEVELS OFFICE.

SEPARATE PERMITS REQUIRED:
-Electrical
-Plumbing PNR18-04269
-Mechanical MNR18-04268
-Fire

ZONING
CBD - 5A

OCCUPANCY
GROUP I-4 DAYCARE

FIRE-PROTECTION
FULLY SPRINKLERED WITH FIRE ALARM SYSTEM

AREAS OF WORK
FLOOR-2 INTERIOR SPACE = 13,781 SF
EXTERIOR PLAYGROUND = 5,465 SF
NO CHANGE TO OVERALL BUILDING AREA

CONSTRUCTION TYPE
PARKING & LEVEL 1 = TYPE IA
LEVEL 2 & ABOVE = TYPE IB
HIGH RISE

WATER SOURCE
SEATTLE PUBLIC UTILITES

SEWER SOURCE
KIRKLAND PUBLIC WORKS

APPLICABLE CODES
1. BUILDING- 2015 SEATTLE BUILDING CODE
2. HVAC: SEE MECHANICAL DRAWINGS
3. PLUMBING: SEE PLUMBING DRAWINGS
4. FIRE PROTECTION: SEE MECHANICAL DRAWINGS
5. ELECTRICAL: NATIONAL ELECTRICAL CODE LATEST EDITION
6. ACCESSIBILITY: ADA, ANSI 117.1 & WASHINGTON STATE ACCESSIBILITY CODE
7. OCCUPATIONAL SAFETY: OSHA & WISHA
8. WASHINGTON STATE AMENDMENTS
   WAC 50-51 WASH STATE BUILDING CODE
   WAC 51-54 WASH STATE FIRE CODE
   2015 SEATTLE COMMERCIAL ENERGY CODE

OTHER RELATED PERMIT SUBMITTALS
1. FIRE SPRINKLER DESIGN TO BE SUBMITTED FOR PERMIT SEPARATELY BY THE EVENTUAL FIRE-SPRINKLER CONTRACTOR
2. FIRE-ALARM DESIGN TO BE SUBMITTED FOR PERMIT SEPARATELY BY THE EVENTUAL FIRE-ALARM CONTRACTOR, TBD.
3. LOW-VOLTAGE CABLING TO BE SUBMITTED FOR PERMIT SEPARATELY BY EVENTUAL LOW-VOLTAGE CONTRACTOR, TBD.
4. CHILDCARE LICENSING: PROJECT HAS NOT BEEN ASSIGNED TO LICENSOR AT THE WASHINGTON STATE DEPARTMENT OF EARLY LEARNING (DEL).

RENDERING OF SHELL AND CORE

PROJECT TEAM

TENANT
BRIGHT HORIZONS FAMILY SOLUTIONS
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ATTN DANI TOOLE
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ATTN JARAD MONIN

TENANT'S REPRESENTATIVE
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LANDLORD/DEVELOPER
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ATTN ARTHUR FURUKAWA
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ATTN PEGGY DERMODY

MECHANICAL ENGINEER
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LANDSCAPE ARCHITECT-DESIGN
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BROOKLINE, MA 02446
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EMAIL JHIROMURA@STUDIOLMLA.COM
ATTN JOANNE HIROMURA

LANDSCAPE ARCHITECT OF RECORD
BARKER LANDSCAPE ARCHITECTS
3002 NW 68TH ST
SEATTLE, WA 98117
PHONE 206-783-2870
EMAIL NICOLAS@BARKERLA.COM
ATTN NIC MORIN

CONTRACTOR
SWINERTON BUILDERS
14432 SE EASTGATE WAY, SUITE 230
BELLEVUE, WA 98007
PHONE 425-283-5290
EMAIL SGOFF@SWINERTON.COM
ATTN STEVE GOFF

SPRINKLER DESIGN/BUILD CONTRACTOR
TBD

DOCUMENT LIST

ARCHITECTURAL

A0.01	GENERAL INFORMATION
A0.02	SYMBOLS AND ABBREVATIONS
A0.03	CODE REVIEW
A0.10	ACCESSIBILITY
A0.11	ACCESSIBILITY
A0.12	ACCESSIBILITY
A1.01	SITE PLAN
A1.10	LEVEL 2 EXISTING CONDITIONS PLAN
A1.11	LEVEL 2 LIFE SAFETY PLAN
A1.12	PLAYGROUND LIFE SAFETY PLAN
A2.12E	EMBED PLAN
A2.22	LEVEL 2 FLOOR PLAN
A2.23	LEVEL 2 REFLECTED CEILING PLAN
A2.24	LEVEL 2 FINISH PLAN
A2.25	LEVEL 2 CASEWORK & EQUIPMENT PLAN
A4.01	ENLARGED KITCHEN
A4.02	ENLARGED BATHROOMS
A5.01	INTERIOR ELEVATIONS CASEWORK KEY ELEVATIONS
A5.02	BATHROOM ELEVATIONS
A6.11	PARTITION AND RELITE INFORMATION
A6.21	DOOR SCHEDULE
A6.22	HARDWARE SCHEDULE
A6.31	FINISH SCHEDULE
A6.41	MATERIAL SCHEDULE
A9.01	DETAILS
A10.20	CASEWORK DETAILS

LANDSCAPE

L1.0	PLAYGROUND LAYOUT AND MATERIALS PLAN
L1.1	PLAYGROUND SURFACING AND PLANTING PLAN
L2.0	PLAYGROUND DETAILS
L2.1	PLAYGROUND IMAGES
L3.0	PLANTING PLAN

MECHANICAL

M0.01	HVAC LEGEND, NOTES & ABBREVIATIONS
M0.02	HVAC SCHEDULES & CALCULATIONS
M1.00	HVAC PLAN
M3.00	HVAC DETAILS
M3.01	WEC COMPLIANCE FORMS
M3.02	VRF PIPING DIAGRAM

PLUMBING

P0.01	PLUMBING SYMBOLS, NOTES, AND ABBREVIATIONS
P0.02	PLUMBING SCHEDULES AND NOTES
P1.00	UNDERFLOOR PLUMBING PLAN
P2.00	PLUMBING FLOOR PLAN
P3.00	PLUMBING DETAILS

ELECTRICAL

E0.00	ELECTRICAL LEGENDS AND ABBREVIATIONS
E0.10	ELECTRICAL RISER DIAGRAM
E0.20	ELECTRICAL MEP SCHEDULE
E0.30	ELECTRICAL HOUSE PANEL SCHEDULES
E0.06	ENERGY CODE FORMS
E0.07	ENERGY CODE FORMS
E0.80	LIGHTING CONTROL SEQUENCE OF OPERATIONS
E2.00	LEVEL 1 - P&LV PLAN
E3.00	LEVEL1 - LIGHTING PLAN
E5.00	ENLARGED ELECTRICAL ROOMS

PCD APPROVED SITE PLAN
Any proposed changes to the approved site plan, such as but not limited to added hard surfaces, HVAC units, tree removals and accessory structures, must be submitted to the Building Department as a revision to the building permit for review and approval by all departments prior to implementation.

NOTICE
HOURS OF WORK: 7:00 am to 8:00 pm Monday - Friday, 9AM TO 6PM Saturday, no work Sundays or holidays (Per KZC Section 115.25). Exceptions must be approved in writing by the Planning Official.

N

VICINITY MAP

MUST REMAIN ON JOB SITE

SABA rchitects
2 Nickerson Street, Suite 200
Seattle, WA 98109
T 206 957 6400
F 206 957 6404

9049 REGISTERED ARCHITECT
ARTHUR AKIRA FURUKAWA
STATE OF WASHINGTON

City of Kirkland
Reviewed by AHaupt
06/21/2018

PERMIT SET
18 JANUARY 2018

PERMIT SET	18 JAN 2018
DESIGN DEV.	26 OCT 2017

Bright Horizons FAMILY SOLUTIONS®

BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

GENERAL INFORMATION

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A0.01

ABBREVIATIONS

A

AB	ANCHOR BOLT
AC	ACOUSTIC/ALTERNATING CURRENT/AUTOCLAVE
ACC	ACCESSORY OCCUPANT LOAD
ACU	ADMINISTRATIVE CONDITIONAL USE OR AIR CONDITIONING UNIT
AD	AREA DRAIN
ACT	ACOUSTIC CEILING TILE
ADA	AMERICANS W/ DISABILITIES ACT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE/ADJACENT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE/ALTERATION
AMP	AMPERES
ANCH	ANCHOR
ANOD	ANODIZED
AP	ACCESS PANEL
AR	ARGON
ARCH	ARCHITECT
ASSY	ASSEMBLY
AUT	AUTOCLAVE (STERILIZER)
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL

B

BAL	BALANCE
BC	BOTTOM OF CURB
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCK(ING)
BM	BEAM
BOD	BASIS OF DESIGN
BOT	BOTTOM
BRG	BEARING
BRKT	BRACKET
BS	BOTH SIDES/BACK SET
BSC	BIO-SAFETY CABINET
BSMT	BASEMENT
BTW	BETWEEN

C

CAB	CABINET
CBC	CALIFORNIA BUILDING CODE
CPT	CARPET
CB	CATCH BASIN/CHALKBOARD
CEN	CENTRIFUGE
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFH	CHEMICAL FUME HOOD
CG	CORNER GUARD
CH	COAT HOOK
CHILD	CHILDREN
CHAN	CHANNEL
CHAM	CHAMFER
CIP	CAST-IN-PLACE (CONCRETE)
CJ	CONSTRUCTION JOINT
CL	CLEARANCE
CLG	CEILING
CLJ	CONTROL JOINT
CLKG	CAULKING
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINATION/COMBUSTIBLE
COMM	COMMUNICATION
COMP	COMPRESS(ED)(ION)/ COMPACT(OR)(ED)(ION)/ COMPOSITE(ION)
CONC	CONCRETE
COND	CONDUIT, CONDITION
CONF	CONFERENCE
CONN	CONNECT(ION)
CONST	CONSTRUCTION
CONT	CONTINUE/CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CS	CUP SINK
CSFD	COMBINATION SMOKE & FIRE DAMPER
CSK	COUNTERSINK/COUNTERSUNK
CT	CARPET TILE, CERAMIC TILE
CTR	CENTER
CU	CONDENSING UNIT
CW	COLD WATER (DOMESTIC)
CWS	COUNTERSUNK WOOD SCREW

D

D	PENNY (NAILS)
DC	DIRECT CURRENT
DBL	DOUBLE
DEG	DEGREE(S)
DELI	DELI-STYLE REFRIGERATOR
DEMO	DEMOLISH/DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNDATION/ DOUGLAS FIR
DI	DEIONIZED WATER
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION(S)
DIR	DIRECTOR(S)
DL	DEAD LOAD
DN	DOWN
DR	DOOR/DRAIN
DRWR	DRAWER
DS	DOWNSPOUT
DW	DISH WASHER
DWG	DRAWING(S)
DWR	DRAWER

E

(E)	EXISTING
EA	EACH
EB	EXPANSION BOLT
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION (GRADE)
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR/ELEVATION
EMER	EMERGENCY
EMP	EMERGENCY POWER
ENCL	ENCLOSED
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED/EXPANSION
EXT	EXTERIOR
EXTD	EXTRUDED
EW	EYEWASH

F

F	FAHRENHEIT
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHMC	FLAT HEAD MACHINE SCREW
FHS	FLAT HEAD SCREW
FHWS	FLAT HEAD WOOD SCREW
FIC	FURNISHED AND INSTALLED BY CONTRACTOR
FIN	FINISH(ED)
FIO	FURNISHED AND INSTALLED BY OWNER
FIOV	FURNISHED AND INSTALLED BY OWNER OR VENDER
FL	FLOOR LINE/FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FLOOR(ING)
FLUOR	FLUORESCENT
F.O. FOIC	FACE OF... FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FP	FIREPROOF(ING)
FRM	FERMENTOR
FRP	FIBERGLASS REINFORCED PANEL
FRZ	FREEZER
FS	FULL SIZE/FLOOR SINK
FT	FOOT/FEET
FTG	FOOTING
FURR	FURRING
FWC	FABRIC WALL COVERING
FZ	FREEZER

G

G	GAS OUTLET
GA	GAUGE/GAGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL/GENERATOR
GFI	GROUND FAULT INTERRUPT
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS/GLAZING/GLAZED
GLAM	GLUE LAMINATED
GLB	GLULAM BEAM
GND	GROUND
GW	GLASSWASHER
GWB	GYPSUM WALLBOARD
GYP	GYPSUM

H

HC	HANDICAP
HCW	HOLLOW CORE WOOD/ HOT & COLD WATER
HDWD	HARDWOOD
HDR	HEADER
HM	HOLLOW METAL
HMIS	HAZARDOUS MATERIALS INVENTORY STATEMENT
HMMP	HAZARDOUS MATERIALS MANAGEMENT PLAN
HORIZ	HORIZONTAL
HP	HORSEPOWER/HIGH PRESSURE/HIGH POINT
HPL	HIGH PRESSURE LAMINATE
HR	HOUR
HS	HOOK STRIP/HIGH STRENGTH
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING/VENTILATION/AIR CONDITIONING
HW	HOT WATER(DOMESTIC)
HYD	HYDRANT
HDWR	HARDWARE

I

IBC	INTERNATIONAL BUILDING CODE
ICE	ICE MACHINE
ICW	INDUSTRIAL COLD WATER
ID	INSIDE DIAMETER/INSIDE DIMENSION
IHW	INDUSTRIAL HOT WATER
IN	INCH
INC	INCUBATOR
INCAN	INCANDESCENT
INCL	INCLUDE(ING)
INFO	INFORMATION
INS	INSULATE(D)(ING)
INSUL	INSULATE(D)(ING)
INT	INTERIOR
INV	INVERT

J

JAN	JANITOR
JBO	JUNCTION
X	BOX
JST	JOIST
JNT	JOINT

K

KO	KNOCK
KP	OUT
KS	KICK PLATE
	KNEE
	SPACE

L

LAB	LABORATORY
LAV	LAVATORY
LB(S)	POUND(S)
LCW	LABORATORY COLD WATER
LF	LINEAL FOOT/LINEAR FOOT
LFH	LAMINAR FLOW HOOD
LHW	LABORATORY HOT WATER
LIN	LINEAR
LL	LIVE LOAD
LOC	LOCATED/LOCATION(S)
LT	LIGHT
LTG	LIGHTING

M

MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDICAL/MEDIUM
MEMB	MEMBRANE
MEP	MECHANICAL/ ELECTRICAL/PLUMBING
MFG	MANUFACTURING
MFR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM/MINUTE
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOULDING
MOD	MODULAR/MODIFIED
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTR	MOTOR
MUL	MULLION
MW	MICROWAVE OVEN

N

N	NORTH
NE	NEGATIVE
G	NATURAL GAS
NG	NOT IN
NIC	CONTRACT
NO	NUMBER
NO	NOMINAL
NTS	NOT TO SCALE
N2	NITROGEN
OC	OUTLET
OC(S)	ON CENTER
OD	OCCUPANT(S)
OFD	OUTSIDE DIAMETER
OFF	OVERFLOW DRAIN
OH	OFFICE
OPH	OVERHEAD/OVERHANG
OPN(G)	OPPOSITE HAND
OPP	OPEN(ING)
	OPPOSITE

P

PB	PANIC BOLT/PUSH BUTTON
PBD	PARTICLEBOARD
PCC	PRECAST CONCRETE
PED	PEDESTAL
PERF	PERFORATED(D)
PERIM	PERIMETER
PERP	PERPENDICULAR
PG	PLATE GLASS
PH	PHASE
PL	PLATE
P-LAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PNTD	PAINT(ED)
POL	POLISH(ED)
PORT	PORTABLE
PRINT	PRINTER
PRELIM	PRELIMINARY
PREP	PREPARATION
PRESS	PRESSURE
PROJ	PROJECT(ION)
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREAT(ED)
PTD/W	PAPER TOWEL DISPENSER W/ WASTE RECEPTACLE
PT DISP	PAPER TOWEL DISPENSER
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER

Q

QT	QUARRY
QTR	TILE/QUART
QUA	QUARTER
N	QUANTITY

R

R	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN/ROAD
REC	RECEIVING
RECEP	RECEPTION
RECT	RECTANGULAR
REF	REFRIGERATOR/REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REQ	REQUIRE(D)/REQUIREMENT
REQD	REQUIRED
RESIL	RESILIENT
RET	RETURN
REV	REVISION
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RTN	RETURN
RTU	ROOF TOP UNIT

S

SAF	SELF ADHERED FLASHING
SAN	SANITARY
SBC	SEATTLE BUILDING CODE
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCR	SHOWER CURTAIN ROD
SCHED	SCHEDULE
SD	SOAP DISPENSER/SOAP DISH
SDF	STATIC DISSIPATING FLOORING
SECT	SECTION
SERV	NETWORK SERVER
SF	SQUARE FEET/FOOT
SG	SAFETY GLASS
SHF	SHELF/SHELVING
SHK	SHAKER
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SJ	STEEL JOIST
SLDG	SLIDING
SLR	SEALER
SND	SANITARY NAPKIN DISPENSER
SN/TD	SANITARY NAPKIN/TAMPON DISPENSER
SNT	SEALANT
SPEC	SPECIFICATION/SPECIFIED
SPK	SPEAKER
SPC	SPECIAL
SQ	SQUARE
SS	SANITARY SEWER
SS/SSTL	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STM	STEAM
STN	STONE
STOR	STORAGE
STR	STRAIGHT
STRUC	STRUCTURAL
SUBFL	SUBFLOOR(ING)
SUPP	SUPPORT
SURF	SURFACE
SUSP	SUSPEND(ED)
SV	SHEET VINYL
SYM	SYMMETRICAL
SYN	SYNTHETIC

T

T	TOP, TREAD, TOILET
T&B	TOP AND BOTTOM
TB	TOWEL BAR/TACK BOARD
TBD	TO BE DETERMINED
TC	TOP OF CURB/TOP OF CONCRETE
TD	TOWEL DISPENSER
TEL	TELEPHONE
TEMP	TEMPERATURE/TEMPERED/ TEMPORARY
T&G	TONGUE & GROOVE
THERMO	THERMOSTAT
THK	THICK(NESS)
THRU	THROUGH
TJI	TRUSS-JOIST INTERNATIONAL
TOC	TOP OF CONCRETE
TOIL	TOILET
TOL	TOLERANCE
TOS	TOP OF STEEL
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TPTN	TOILET PARTITION
TRD	TREAD
TS	TUBE STEEL
TWS	TEACHER WORK STATION
TYP	TYPICAL

U

UBC	UNIFORM BUILDING CODE
UC	UNDER COUNTER
UON	UNLESS OTHERWISE NOTED

V

V	VOLTS
V/VAC	VACUUM OUTLET
VAP	VAPOR
VAR	VARIABLE/VARNISH/
VB	VINYL BASE/VACUUM BREAKER/VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VD	VOLUME DAMPER
VENT	VENTILATION/VENTILATE/ VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VG	VERTICAL GRAIN
VIB	VIBRATION
VIF	VERIFY IN FIELD
VM	VENDING MACHINE
VOL	VOLUME
VWC	VINYL WALL COVERING

W

W	WATTS
W	WIDE/WEST/WASTE/WATER
W/	WITH
W/O	WITHOUT
WB	WHITE BOARD/WOOD BASE
WC	WATER CLOSET
WD	WOOD
W/D	WASHER/DRYER
WDW	WINDOW
WF	WIDE FLANGE (STEEL)
WG	WIRE GLASS/WALL GRILL
WH	WATER HEATER
WK	WORK
WPF	WATERPROOF/WEATHERPROOF
WPM	WATERPROOF MEMBRANE
WS	WOOD SCREWS/WATERSTOP
WSP	WEATHERSTRIP/WET STAND PIPE
WT	WEIGHT/WATERTIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WSNREC	WASH STATE NON-RESIDENTIAL ENERGY CODE

Y

YD	YARD DRAIN

SYMBOLS

	ANGLE
@	AT
℄	CENTERLINE
/	PER
⊥	PERPENDICULAR
ℙ	PLATE
ϕ	ROUND OR PHASE (ELECTRICAL)
Ø	DIAMETER
	DELTA
±	PLUS OR MINUS

SYMBOLS

PLAN SYMBOLS

NORTH ARROW

DATUM OR BENCH MARK
FLOOR ELEVATION

COLUMN GRID SYMBOLS

ROOM IDENTIFICATION

WALL TYPE
A = ACOUSTICAL INSULATION

DOOR NUMBER

RELITE NUMBER

WINDOW TAG

CORNER GUARD

INTERIOR ELEVATIONS
NUMBER IDENTIFICATION
SHEET NUMBER (A5.##)

DETAILS
NUMBER IDENTIFICATION
SHEET NUMBER (A9.##)

DETAIL PLAN
NUMBER IDENTIFICATION
SHEET NUMBER

REVISION INDICATOR

PLUMBING FIXTURES

XXX

SINKS/LAVATORIES

EMERG SHOWER & EYEWASH

SHOWER

TOILET

URINAL

FLOOR DRAIN

FLOOR SINK

JANITOR'S SINK

DRINKING FOUNTAIN

WALL LEGEND

WALL TO BE DEMOLISHED

EXISTING NON-RATED WALL TO REMAIN

NEW WALL

EXISTING 1-HR RATED WALL

EXISTING 2-HR RATED WALL

EQUIPMENT

EQUIPMENT NUMBER

FIRE EXTINGUISHER
CLASS 2A, TYP.

HVAC

THERMOSTAT

LOW WALL RETURN

DEVICES

DUPLEX RECEPTACLE

QUADPLEX RECEPTACLE

SPECIALTY RECEPTACLE

LIGHT SWITCH

LIGHT SWITCH WITH DIMMER

3-WAY LIGHT SWITCH

DATA OUTLET

TELEPHONE OUTLET

COMBO TEL/DATA OUTLET

CARD READER

MAGNETIC HOLD OPEN
(CONNECTED TO FIRE-ALARM SYSTEM)

REQUEST TO EXIT (REX)

INFRARED DETECTOR

DOOR CONTACT

FIRE ALARM

FIRE ALARM PULL STATION

FIRE ALARM STROBE DEVICE

FIRE ALARM STROBE & HORN DEVICE

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SYMBOLS AND ABBREVATIONS

SCALE:	AS NOTED
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CHECKED:	AAF
PROJECT NO:	15020.03

A0.02

CODE REVIEW

CHAPTER-3 (2015 IBC W/ WASHINGTON AMENDMENTS)
IBC 308.6 OCCUPANCY TYPE: GROUP I-4 DAYCARE
THIS GROUP HALL INCLUDE BUILDINGS AND STRUCTURES OCCUPIED BY MORE THAN 5 PERSONS OF ANY AGE WHO RECEIVE CUSTODIAL CARE FOR FEWER THAN 24 HOURS PER DAY BY PERSONS OTHER THAN PARENTS OR GUARDIANS, RELATIVES BY BLOOD, MARRIAGE OR ADOPTION, AND IN A PLACE OTHER THAN THE HOME OF THE PERSON CARED FOR. THIS GROUP SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

ADULT DAY CARE
CHILD DAY CARE

IBC 308.6 OCCUPANCY TYPE:
CLASSIFIED AS GROUP-E: MORE THAN 100 CHILDREN OVER 2-1/2 YEARS OF AGE. FACILITY CLASSIFIED AS I-4

CHAPTER-4
N/A. SCOPE OF WORK DOES NOT CHANGE THE OVERALL BUILDING ENVELOPE OR HEIGHTS

CHAPTER-5
IBC SEC 506 BUIDLING AREA
THE FOLLOWING ALLOWENCES APPLY FOR 1-4 OCCUPANCIES:

HEIGHT ALLOWENCE	6 STORIES
SQUARE FOOTAGE ALLOWENCE	181,500 SF

IBC 508.3 SEPARATED OCCUPANCIES
PROJECT IS DESIGNED FOR SEPERATED OCCUPANICES PER RELATED BUILDING PERMIT # BNR16-01620
I-4 TO B 1 HOUR

CHAPTER-6
IBC TABLE 601 (TYPE-1B SPRINKLERED)

FIRE RATING FOR BUILDING ELEMENTS	RATING REQ'D
STRUCTURAL FRAME	2
BEARING WALLS- EXTERIOR	2
BEARING WALLS- INTERIOR	2
NON-BEARING WALLS- EXTERIOR	SEE TABLE 602
NON-BEARING WALLS- INTERIOR	0
FLOOR CONSTRUCTION (INC. BEAMS AND JOISTS)	2
ROOF CONSTRUCTION (INC. BEAMS AND JOISTS)	1

CHAPTER-7
IBC. 713 FIRE RESISTANCE RATING FOR SHAFT ENCLOSURES
SHAFTS CONNECTING 4 OR MORE STORIES= 2-HR

CHAPTER-8
IBC TABLE 803.5 INTERIOR WALL AND CEILING FINISH REQUIREMENTS

(GROUP I-4 SPRINKLERED)	REQ'D CLASS
EXIT ENCLOSURES AND PASSAGEWAYS	B
CORRIDORS	B
ROOMS AND ENCLOSED SPACES	B*

*CLASS C PERMITTED IN ADMINISTRATION SPACES AND ROOMS WITH CAPACITY OF 4 PERSONS OR LESS.

IBC 808.4 INTERIOR FLOOR FINISH REQUIREMENTS
EXIT ENCLOSURES, EXIT PASSAGEWAYS, CORRIDORS AND ROOMS OR SPACES NOT SEPARATED FROM CORRIDORS BY FULL HEIGHT PARTITIONS SHALL WITHSTAND A MINIMUM CRITICAL RADIANT FLUX NOT LESS THAN CLASS II

CHAPTER-9
IBC SECTION 903 AUTOMATIC SPRINKLER SYSTEMS

GROUP B = N/A

GROUP I4 = AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS WITH A GROUP I FIRE AREA

IBC 903.2.6 GROUP I: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT BUILDINGS WITH A GROUP I FIRE AREA.

IBC 907.2.2 FIRE ALARM AND DETECTION SYSTEMS GROUP B
A MANUAL FIRE ALARM SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY LOAD OF 500 OR MORE.
OCCUPANCY LOAD < 500, THEREFORE NO ALARM SYSTEM IS REQUIRED.

IBC 907.2.6 GROUP I: A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM SHALL BE INSTALLED IN GROUP I OCCUPANCIES. AN AUTOMATIC SMOKE DETECTION SYSTEM THAT NOTIFIES THE OCCUPANT NOTIFICATION SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH 907.2.6.1, 907.2.6.2, 907.2.6.3.3 AND 907.2.6.4

IBC 907.2.6.4 GROUP I4 CHILDCARE FACILITIES: AN AUTOMATIC SMOKE DETECTION SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH 907.6 THROUGH 907.6.2.3.2 SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 72.

CHAPTER-10
IBC TABLE 1004.1.1 MAX. FLOOR AREA PER OCCUPANT

ACCESSORY STORAGE/MECHANICAL AREAS	= 300 SF PER OCC
ASSEMBLY UNCONCENTRATED	= 15 SF PER OCC (NET)
BUSINESS AREAS	= 100 SF PER OCC.
DAY CARE	= 35 SF PER OCC (NET)

IBC TABLE 1005.1 EGRESS WIDTH PER OCCUPANT (GROUP B SPRINKLERED)

STAIRWAYS	= 0.2" PER OCC.
OTHER EGRESS COMPONENTS	= 0.15" PER OCC.

IBC 1008.1.1 SIZE OF DOORS
MIN. WIDTH OF EACH DOOR OPENING SHALL NOT BE LESS THAN 32"

IBC 1008.1.2 DOOR SWING
DOOR SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING AN OCC. LOAD OF 50 OR MORE PERSONS.

IBC 1008.1.9.8 ACCESS-CONTROLLED EGRESS DOORS
ENTRANCE DOORS IN A GROUP-B OCCUPANCY ARE PERMITTED IN ACCORDANCE WITH THE IBC 1008.1.3.4

IBC 1011.1 WHERE EXIT SIGNS REQUIRED
EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.

IBC 1014.2 EGRESS THROUGH INTERVENING SPACES
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS ARE ACCESSORY TO THE AREA SERVED; ARE NOT A HIGH-HAZARD OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES. AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS.

IBC TABLE 1014.3 COMMON PATH OF EGRESS TRAVEL

GROUP-B	100'-0"
GROUP-I4	75'-0"

IBC TABLE 1015.1 SPACES WITH ONE MEANS OF EGRESS
GROUP-B = 49 MAX. OCCUPANT LOAD
GROUP-I4 = 10 MAX. OCCUPANT LOAD

IBC 1015.2 EXIT DOORWAY ARRANGEMENT
EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE AREA SERVED.

IBC 1016.1 MAX. TRAVEL DISTANCE SPRINKLERED
GROUP-B = 300'-0"
GROUP-I4 = 200'-0"

IBC TABLE 1018.1 CORRIDOR FIRE RESISTANCE RATING (PER TABLE 1017.1)
GROUP-B WITH SPRINKLER SYSTEM = 0-HR
GROUP-I4 WITH SPRINKLER SYSTEM = 0-HR

IBC 1018.2 CORRIDOR WIDTH
MIN. CORRIDOR WIDTH SHALL BE DETERMINED BY 1005.1, BUT NOT LESS THAN 44"

IBC 1018.4 DEAD ENDS
20'-0" GROUP-B EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 50'-0".

IBC 1018.5.1 CORRIDOR CEILING
USE OF THE SPACE BETWEEN THE CORRIDOR CEILING AND THE ROOF STRUCTURE ABOVE AS A RETURN AIR PLENUM IS PERMITTED PER ITEM #1, THE CORRIDOR IS NOT REQUIRED TO BE OF FIRE RATED CONSTRUCTION

IBC TABLE 1021.1 MIN. NUMBER OF EXITS FOR OCCUPANT LOAD
OCCUPANT LOAD PER FLOOR IS BETWEEN 1 AND 500 THEREFOR (2) EXITS REQ'D MIN.

IBC 1027.5 EXIT DISCHARGE ACCESS TO A PUBLIC WAY
THE EXIT DISCHARGE SHALL PROVIDE A DIRECT AND UNOBSTRUCTED ACCESS TO A PUBLIC WAY.

CHAPTER-11
IBC 1109.2 TOILET AND BATHING FACILITIES
TOILET ROOMS AND BATHING FACILITIES SHALL BE ACCESSIBLE

IBC 1109.2.2 WATER CLOSET COMPARTMENT
AT LEAST ONE WHEELCHAIR-ACCESSIBLE COMPARTMENT SHALL BE PROVIDED AND SHALL COMPLY WITH ICC A117.1

IBC 1109.3 SINKS
AT LEAST 5% BUT NOT LESS THAN ONE SINK SHALL BE ACCESSIBLE

IBC 1109.4 KITCHENS AND KITCHENETTES
SHALL BE ACCESSIBLE IN ACCORDANCE WITH ICC A117.1

IBC 1109.5.1 MINIMUM NUMBER OF DRINKING FOUNTAINS
N/A

CHAPTER-29

TABLE 2902.1 MINIMUM PLUMBING FIXTURES
GROUP-B = 100SF PER OCCUPANT FOR MINIMUM NUMBER OF PLUMBING FIXTURES
GROUP-I4 = 15SF PER OCCUPANT FOR MINIMUM NUMBER OF PLUMBING FIXTURES

OCCUPANTS (BASED ON DEPARTMENT OF EARLY LEARNING)
1. FACILITY CANNOT BE LICENSED FOR MORE CHILDREN THAN SHOWN BELOW WITHOUT ADDING ADDITIONAL PLUMBING FIXTURES AND OTHER CONSTRUCTION TO MEET LICENSING REQUIREMENTS
2. MOVEMENT MATTERS ZONE 236 AND ART ROOM 216 WILL BE OCCUPIED BY CHILDREN AND STAFF ALREADY ACCOUNTED FOR IN OTHER CLASSROOMS

FIXTURE COUNTS (BASED ON 2015 IBC TABLE 2902.1)

ADULTS	WC	1:25
	LAV	1:40
CHILDREN	WC	1:15
	LAV	1:15

SHOWER 1

WATERCLOSETS

12	WC'S-CHILDREN (172/15)
1	WC'S-ADULT (37/25)
13	TOTAL WC'S REQUIRED
15	WATER CLOSETS PROVIDED (13 CHILD, 2 ADULT)

LAVATORIES

12	LAVATORIES -CHILDREN (172/15)
1	LAVATORIES - ADULT (30/40)
13	TOTAL LAVATORIES REQUIRED
15	LAVATORIES PROVIDED (13 CHILD, 2 ADULT)

SHOWERS
1 SHOWER PROVIDED

WATER FOUNTAINS
0 DRINKING FOUNTAINS REQUIRED
2 DRINKING FOUNTAINS PROVIDED

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INTERNATIONAL BUILDING CODE REQUIREMENTS

CHAPTER 11 ACCESSIBILITY
DIAGRAMS BELOW

ACCESSIBILITY NOTES

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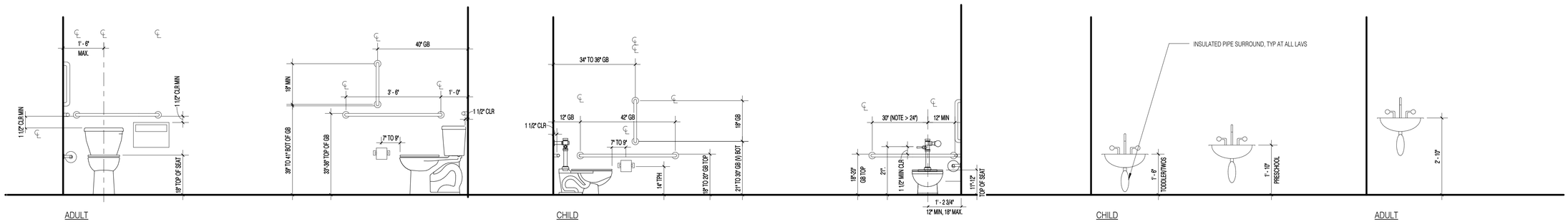
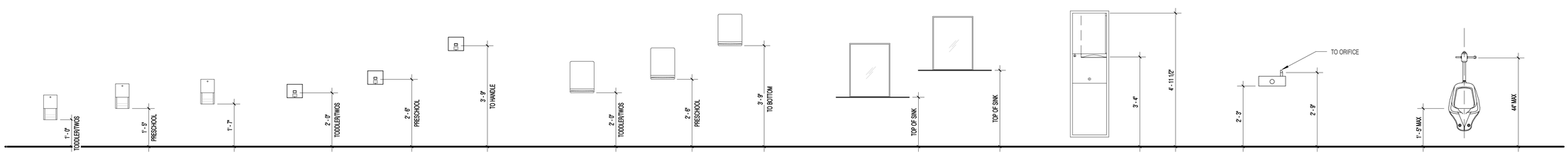


ADULT CHILD CHILD ADULT

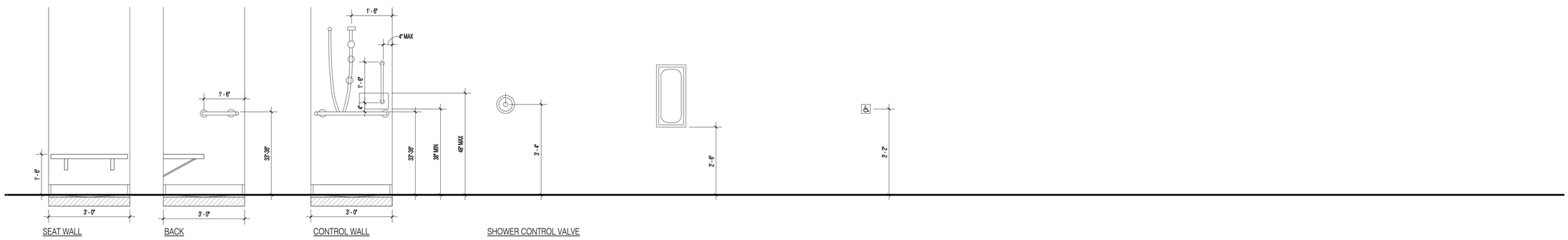
WATER CLOSETS

LAVATORIES



CHILD ADULT CHILD ADULT CHILD ADULT CHILD ADULT

TOILET PAPER DISPENSERS | SOAP DISPENSERS | PAPER TOWEL DISPENSERS | MIRRORS | PAPER TOWEL DISPENSER & RECEPTACLE | ADA DRINKING FOUNTAIN | URINAL FRONT ELEV



SEAT WALL BACK CONTROL WALL SHOWER CONTROL VALVE

ADA SHOWER | FIRE EXTINGUISHER CABINET (FEC) | POWER DOOR ACTUATOR

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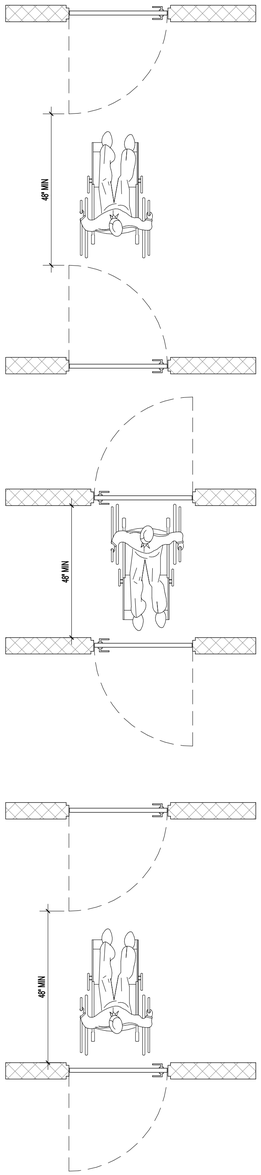
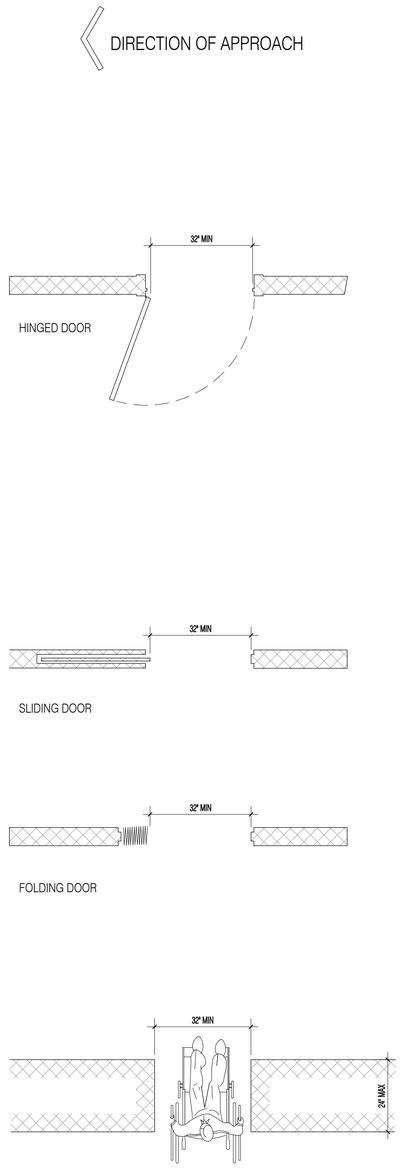
DIAGRAMS BELOW

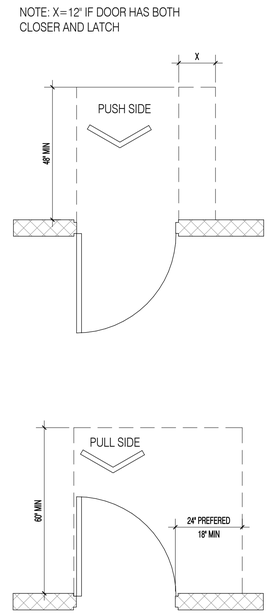
FIG. 26
TWO HINGED DOORS IN SERIES



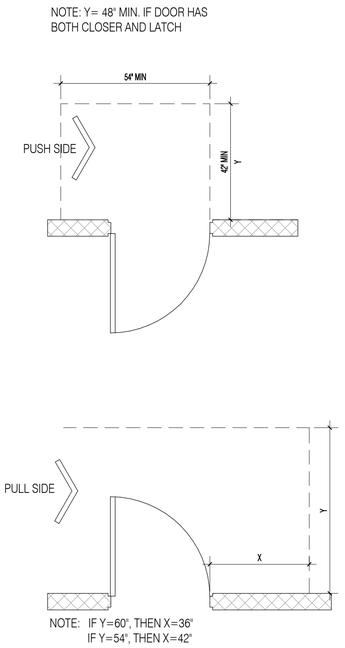
MAXIMUM DOORWAY DEPTH
FIG. 24
CLEAR DOORWAY WIDTH & DEPTH



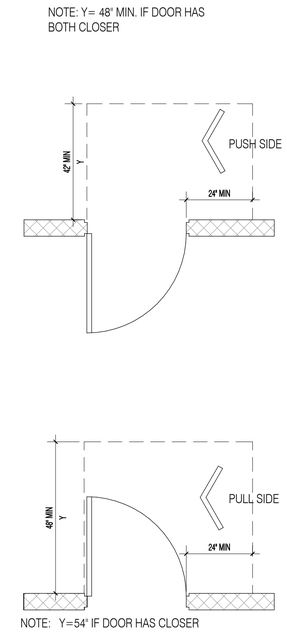
MANEUVERING CLEARANCES AT DOORS



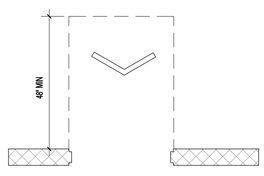
FRONT APPROACHES
SWINGING DOORS



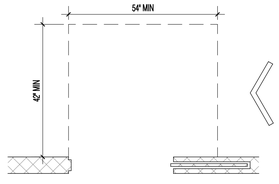
HINGE SIDE APPROACHES
SWINGING DOORS



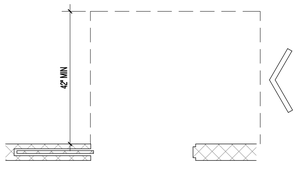
LATCH SIDE APPROACHES
SWINGING DOORS



FRONT APPROACHES SLIDING &
FOLDING DOORS



SLIDE SIDE FRONT APPROACH
SLIDING DOORS & FOLDING DOORS



LATCH SIDE FRONT APPROACH
SLIDING DOORS & FOLDING DOORS

NOTE: ALL DOORS IN ALCOVES
SHALL COMPLY WITH THE
CLEARANCES FOR FRONT
APPROACHES

ACCESSIBILITY NOTES

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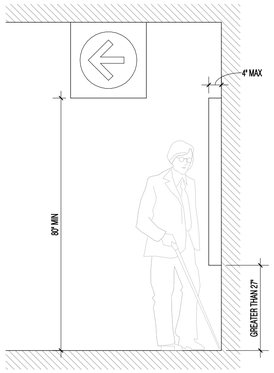
INTERNATIONAL BUILDING CODE REQUIREMENTS

CHAPTER 11 ACCESSIBILITY
DIAGRAMS BELOW



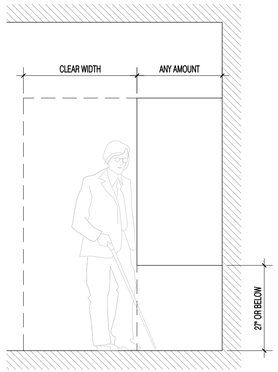


FIG. 8(A)
WALKING PARALLEL TO A WALL

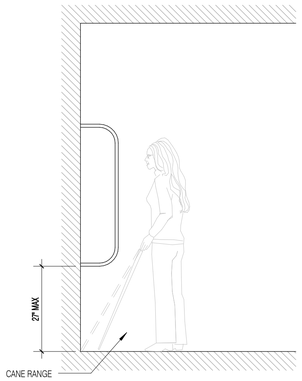
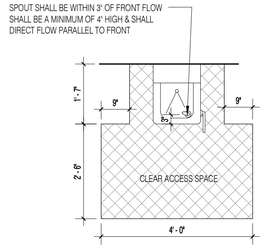
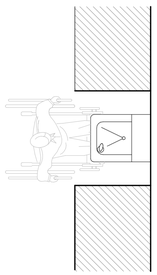


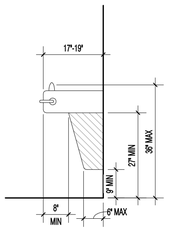
FIG. 8(B)
WALKING PERPENDICULAR TO A WALL



CLEAR FLOOR SPACE

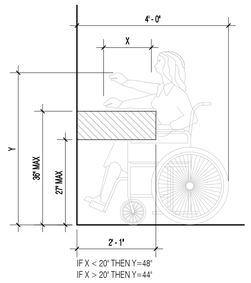


PLAN AT DRINKING FOUNTAIN

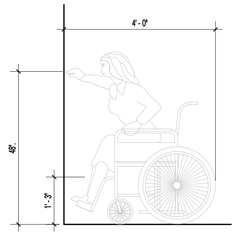


SECTION THRU DRINKING FOUNTAIN

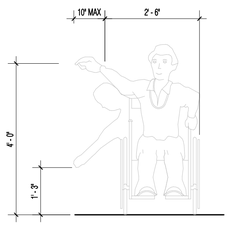
EQUIPMENT PERMITTED IN SHADED AREA SPOUT HEIGHT AND KNEE CLEARANCE



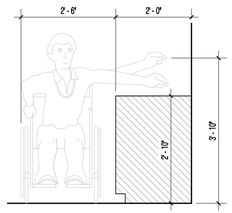
MAXIMUM REACH FORWARD OVER OBSTRUCTION



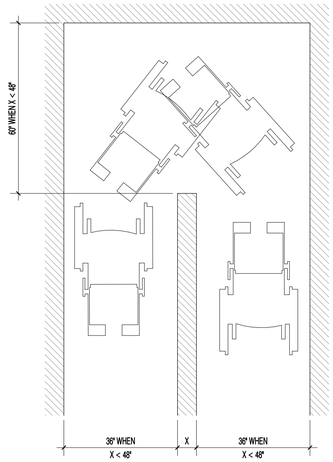
MAXIMUM FORWARD REACH



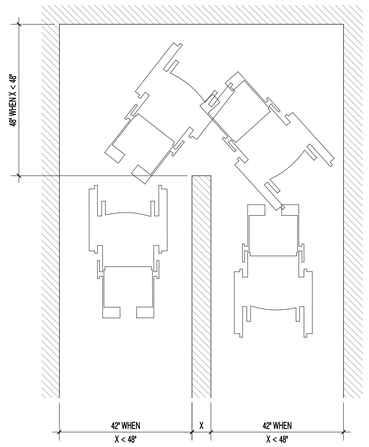
HIGH AND LOW SIDE REACH LIMITS



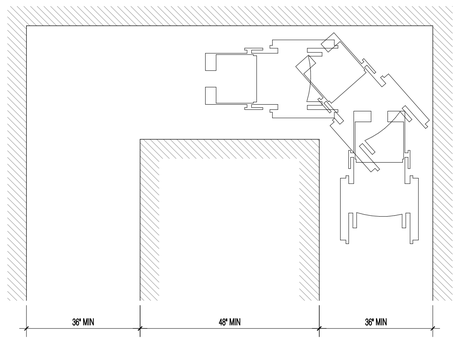
MAXIMUM SIDE REACH OVER OBSTRUCTION



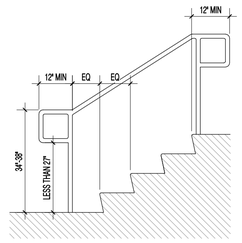
TURNS AROUND AN OBSTRUCTION



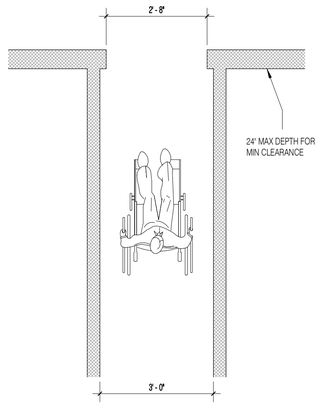
TURNS AROUND AN OBSTRUCTION



90 DEGREE TURN



HANDRAIL HEIGHT



MINIMUM CLEAR WIDTH FOR SINGLE WHEELCHAIR

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BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

ACCESSIBILITY

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A0.12

SITE INFORMATION

LANDLORD/DEVELOPER
RYAN COMPANIES
3900 E. CAMELBACK ROAD, SUITE 100
PHOENIX, AZ 85018
PHONE 425-441-2215
EMAIL TYLER.SMITH@RYANCOMPANIES.COM
ATTN TYLER SMITH

LEGAL DESCRIPTION:
BURKE & FARRARS KIRKLAND DIV 339 LOTS 1 THRU 17 BLK 174 SD PLAT TGW POR SE 1/4 OF SW 1/4 SEC 5-25-5 LY NLY OF KIRKLAND WAY & SELY OF CENTRAL WAY & WLY OF SD PLAT OF BURKE & FARRARS KIRKLAND DIV #39 & WLY OF LN BEG O N MGN SD KIRKLAND WAY AAP 168.71 FT NO OF & 708 FT W OF SE COR SD SUBD TH RNNG N 00-21-00 W 660 FT M/LO TO S LN SD PLAT OF BURKE & FARRARS & TERM SD LN LESS POR SD SUBD LY WLY OF LN BEG AT PT ON S LN SD SUBD N 89-39 E 1511.50 FT FR COR COMMON TO SECS 5 & 8 TWSP 25 RNG 5 TH N 00-21 W 990.20 FT TO NXN WITH S MGN CENTRAL AVE & TERN THIS LN ALSO LESS OR LY SLY OF LN BEG 708 FT W & 168.71 FT N OR SE COR SD SUBD AAP ON N MGN SD KIRKLAND WAY TH N 00-21 W 149 FT TH 89-46-25 W 2.87 FT TH S 89-34-30 W 166.54 FT TH N 00-25-30 W 0.58 FT TH S 89-46-25 W 166.54 FT TO W LN SD PAR DESC & TERM THIS LN DESC.

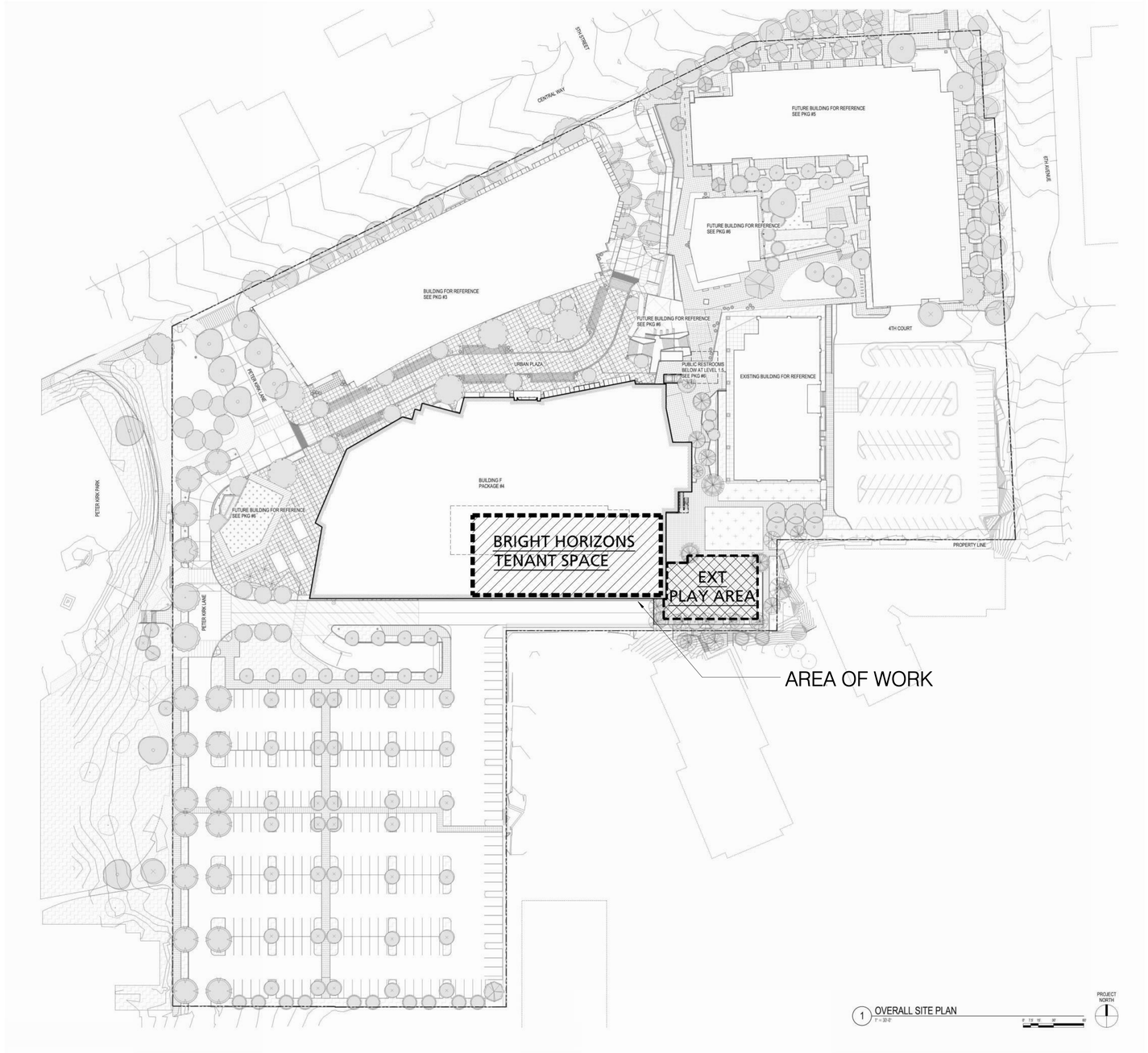
SITE PLAN NOTES:
1. SEE RELATED BUILDING PERMIT # BNR16-01620 FOR FULL PARKING CALCULATIONS IN COMPLINACE WITH KZC 105.00.
2. (17) DEDICATED PARKING SPACES FOR BRIGHT HORIZONS LOCATED ON PARKING GARAGE LEVEL P1:
(13) COMPACT STALLS
(3) STANDARD STALLS
(1) ADA ACCESSIBLE STALL

ZONING SUMMARY-APPLICABLE PROVISIONS

LAND USE ZONE

KIRKLAND ZONING CODE (KZC), KIRKLAND MUNICIAPL CODE (KMC)
CENTRAL BUSINESS DISTRICT 5A (CBD-5A)
MIXED USED DEVELOPMENT CONTAINING OFFICE, RETAIL, AND RESTURANT USES

REQUIREMENT	REQUIRED/ALLOWED
PERMITTED USES (KZC 50.38)	MIXED USE, OFFICE, RETAIL, AND RESTURANT USES. SPECIAL REGULATIONS ALLOW FOR HOTEL, ATHLETIC CLUB, MOVIE THEATER, PRIVATE LODGE OR CLUB, CHURCH, SCHOOL, DAY-CARE CENTER, MINI-SCHOOL, PUBLIC UTIIT, GOVERNMENT FACILITY, COMMUNITY FACILITY, OR PUBLIC PARK. ASSISTED LIVING, AND STACKED OR ATTACHED DWELLING UNITS.
REQUIRED PARKING SPACES (KZC 105.00)	SEE RELATED BUILDING PERMIT # BNR16-01620 FOR PARKING IN COMPLIANCE WITH THE PROJECT'S APARKIGN DEMAND AND SUPPLY ANALYSIS. 2,078 STALL ARE REQUIRED, 1,425 ARE RECOMMENDED PER THE PARKING SUPPLY AND DEMAND ANALYSIS. BRIGHT HORIZONS HAS (17) DEDICATED PARKING STALLS PER THE LEASE.



N 1 SITE PLAN
SCALE: NOT TO SCALE

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9049 REGISTERED ARCHITECT
ARTHUR AKIRA FURUKAWA
STATE OF WASHINGTON

City of Kirkland
Reviewed by AHaupt
06/21/2018

PERMIT SET
18 JANUARY 2018

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SITE PLAN

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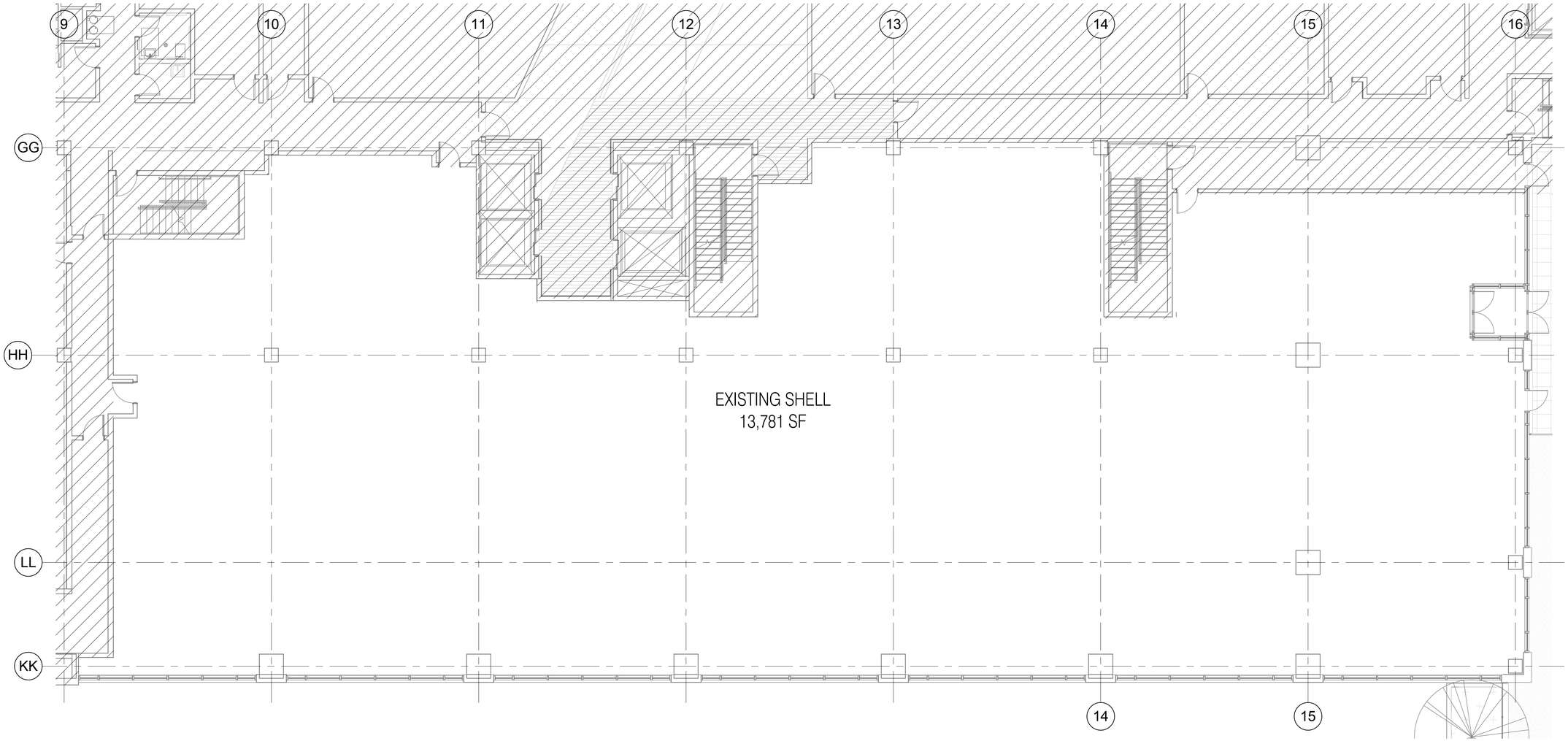

1 LEVEL 2 EXISITING CONDITIONS PLAN

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

EXISTING CONDITIONS NOTES

1. DRAWINGS SHOW EXISTING CONDITIONS OF SHELL AND CORE BUILDING. DRAWING DOES NOT INCLUDE THE PLUMBING PENETRATIONS.
2. DRAWING FOR EREFERNCE ONLY. SHELL AND CORE BY OTHERS.

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LEVEL 2 EXISTING CONDITIONS PLAN

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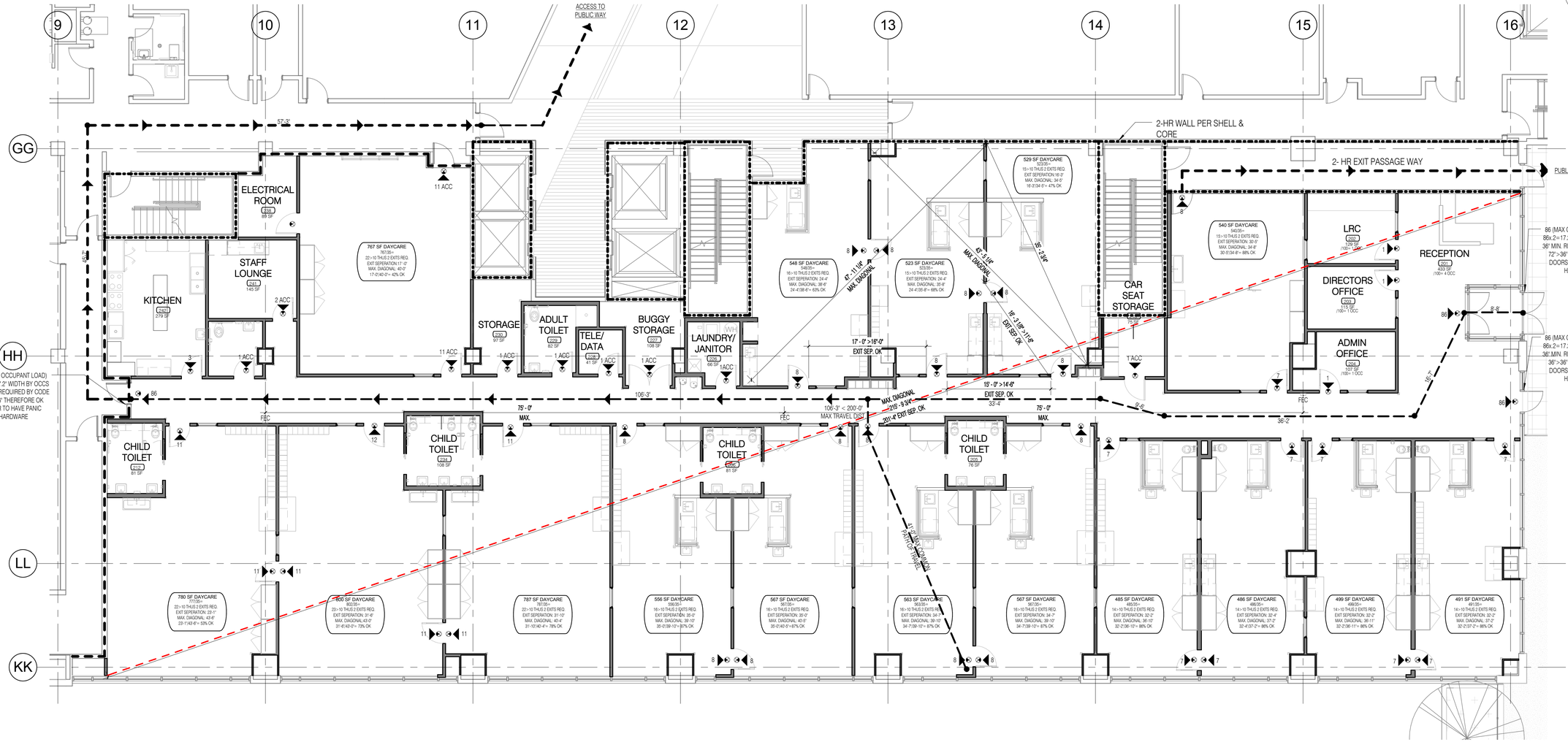
A1.10



1 LEVEL 2 LIFE SAFETY PLAN

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

0' 4' 8' 16' 32'

LIFE SAFETY NOTES

1. FOR EXIT LIGHTS SEE RCP SHEET A2.23
2. SEE CODE SUMMARY SHEET A0.03 FOR GENERAL CODE INFORMATION & ASSUMPTIONS.
3. OCCUPANT LOADS USED
   BUSINESS = 100 SF/PERSON
   DAYCARE FACILITIES= 35SF/PERSON
4. "ACC" REFERS TO ACCESSORY OCCUPANTS. WHERE A ROOM IS BEING USED BY BUILDING OCCUPANTS ALREADY ACCOUNTED FOR.
5. EXIT DOOR MINIMUM WIDTH IS 32". ALL EXIT DOOR PROVIDED ARE 36".
6. FOR EMERGENCY LIGHTING SEE REFLECTED CEILING PLANS.
7. SEE RELATED PERMIT #BNR16-01620 SHEET G42.2 FOR OVERALL SITE EGRESS FOR REFERENCE

LIFE SAFETY LEGEND

	EXIT LIGHTING, SEE A2.23
FEC	FIRE EXTINGUISHER
9 ▶	OCCUPANTS IN A GIVEN SPACE AND DIRECTION OF TRAVEL
EXIT	EXITS WITH PANIC HARDWARE
MAX. PATH OF COMMON TRAVEL 72'-9" < 100'-0" OK	MAXIMUM AND SELECTED LOCATIONS TO SHOW MAXIMUM PATH OF COMMON TRAVEL.
	2-HR FIRE BARRIER
	1-HR FIRE PARTITION

OCCUPANT LOADS

OCCUPANT LOADS BASED ON TABLE 1004.1.2	LOAD FACTOR	OCCUPANTS
DAYCARE	35 SF	248
OFFICE	100 SF	10
TOTAL OCCUPANTS		258

LIMITED OCCUPANT LOADS BASED WASHINGTON DEPARTMENT OF EARLY LEARNING (DEL)	LOAD FACTOR	OCCUPANTS
INFANTS	50 SF	24
CHILDREN	35 SF	148
ADULTS (37 STAFF MEMBERS)	35 SF	37
TOTAL ALLOWABLE OCCUPANTS		209

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LEVEL 2 LIFE SAFETY PLAN

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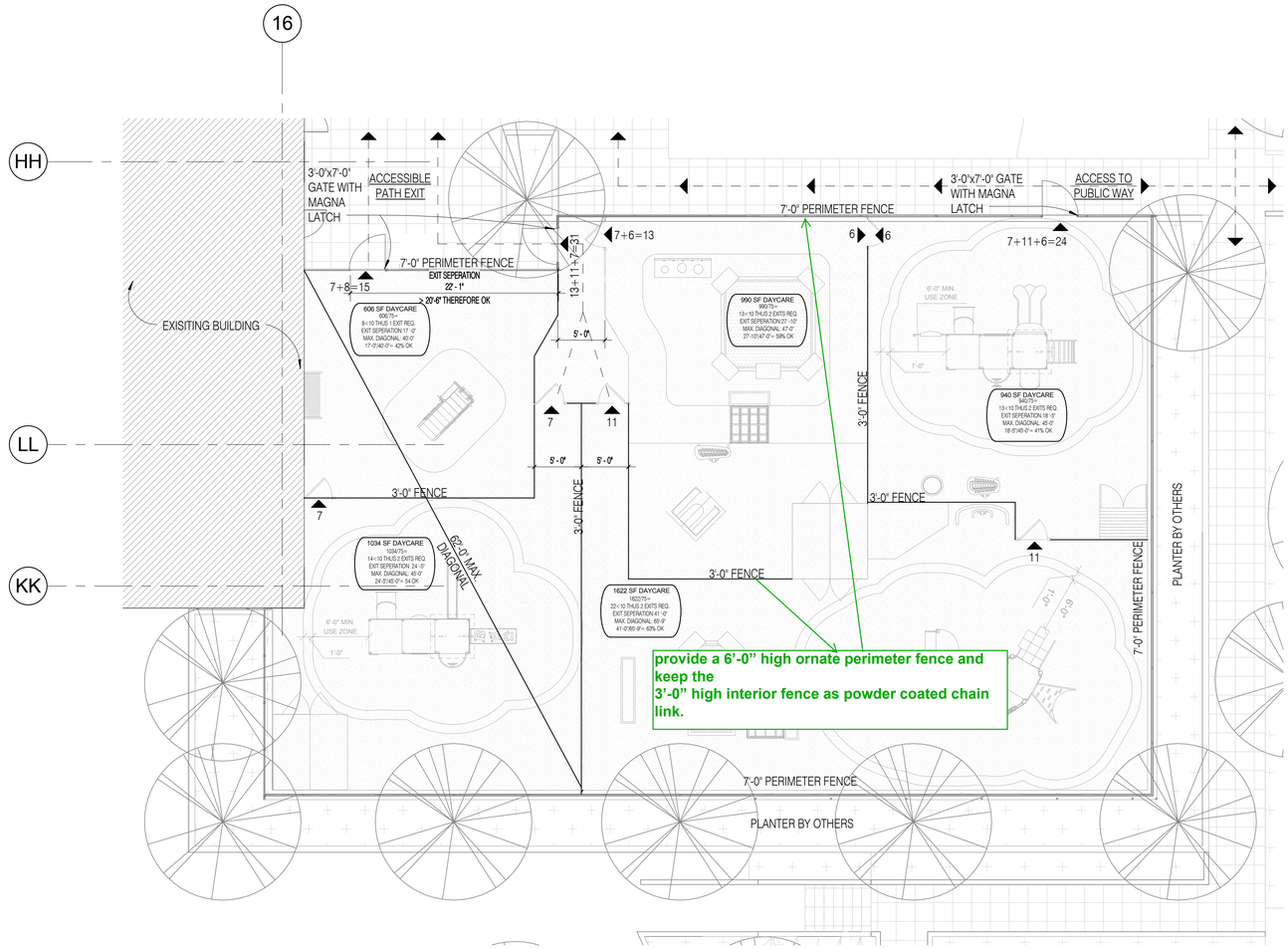
A1.11



1 PLAYGROUND LIFE SAFETY

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

LIFE SAFETY NOTES

1. FOR EXIT LIGHTS SEE RCP SHEET A2.23
2. SEE CODE SUMMARY SHEET A0.03 FOR GENERAL CODE INFORMATION & ASSUMPTIONS.
3. OCCUPANT LOADS USED
   BUSINESS = 100 SF/PERSON
   DAYCARE FACILITIES= 35SF/PERSON
4. "ACC" REFERS TO ACCESSORY OCCUPANTS. WHERE A ROOM IS BEING USED BY BUILDING OCCUPANTS ALREADY ACCOUNTED FOR.
5. EXIT DOOR MINIMUM WIDTH IS 32". ALL EXIT DOOR PROVIDED ARE 36".
6. FOR EMERGENCY LIGHTING SEE REFLECTED CEILING PLANS.
7. SEE RELATED PERMIT #BNR16-01620 SHEET G42.2 FOR OVERALL SITE EGRESS FOR REFERENCE

LIFE SAFETY LEGEND

	EXIT LIGHTING, SEE A2.23
FEC	FIRE EXTINGUISHER
9 ▶	OCCUPANTS IN A GIVEN SPACE AND DIRECTION OF TRAVEL
EXIT	EXITS WITH PANIC HARDWARE
MAX. PATH OF COMMON TRAVEL 72'-9" < 100'-0" OK	MAXIMUM AND SELECTED LOCATIONS TO SHOW MAXIMUM PATH OF COMMON TRAVEL.
	2-HR FIRE BARRIER
	1-HR FIRE PARTITION

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PLAYGROUND LIFE SAFETY PLAN

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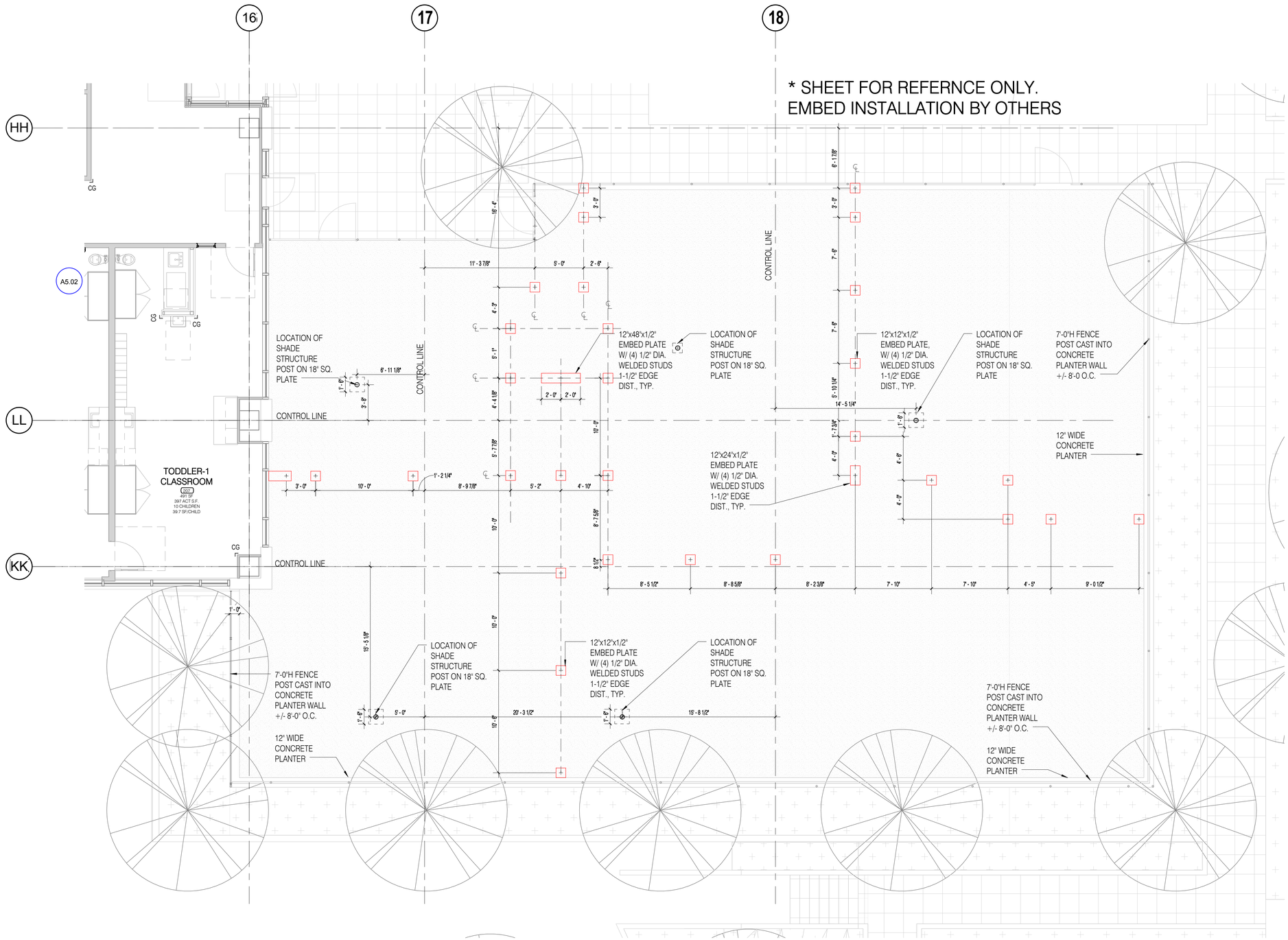

1 EMBED PLAN

SCALE: 3/16" = 1'-0"

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EMBED PLAN

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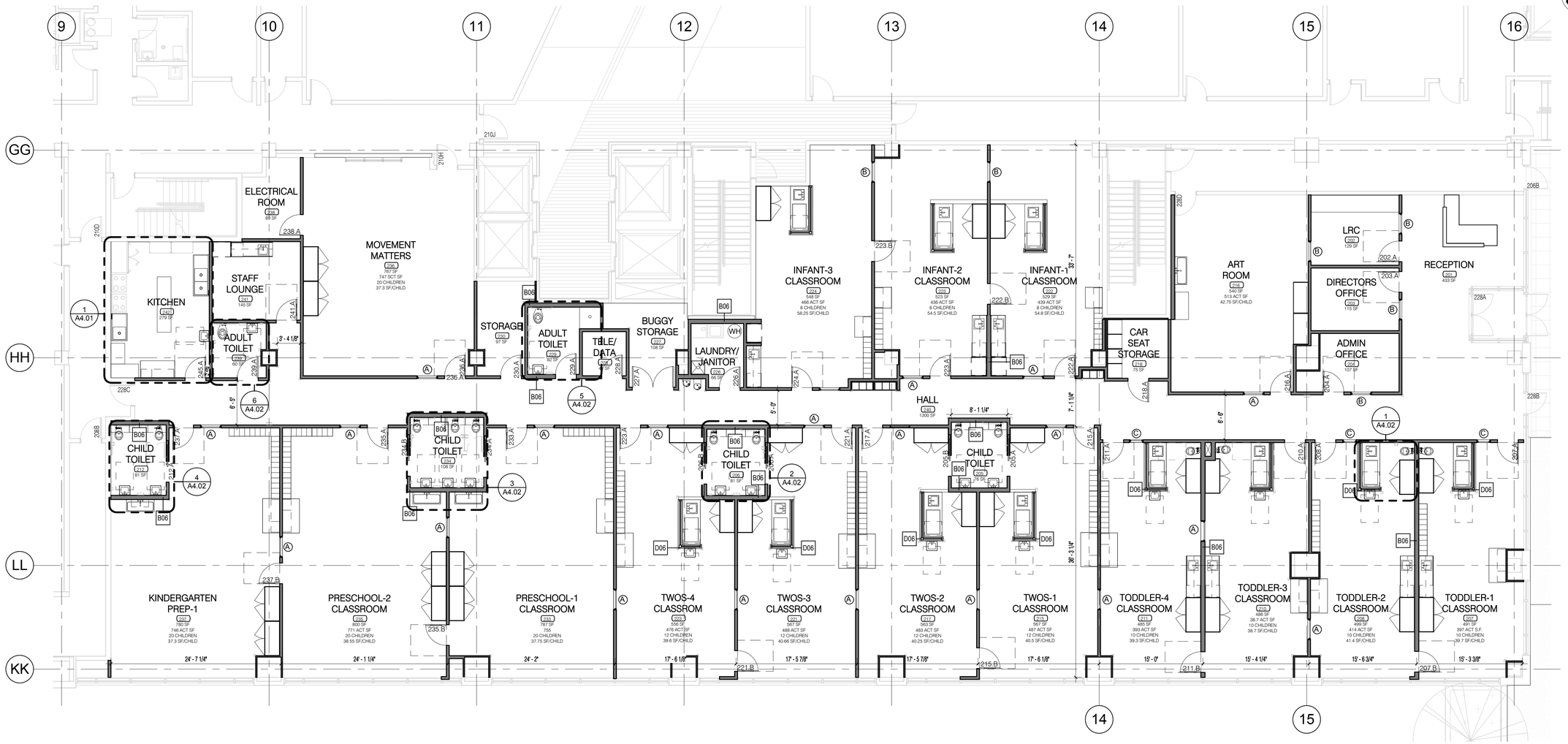
A2.12E



1 LEVEL 2 FLOOR PLAN

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

FLOOR PLAN NOTES

1. TYPICAL WALL ON THIS FLOOR IS B03 U.O.N.
2. WRAP ALL FREE STANDING COLUMNS WITH B51
3. FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS SEE DRAWING A0.2.
4. FOR WALL INFORMATION SEE DRAWING A6.1.
5. FOR DOOR & HARDWARE INFORMATION SEE DRAWINGS A6.2 & A 6.2B.
6. FOR RELITE INFORMATION SEE A6.1
7. DIMENSIONS ARE FROM CENTER OF WALL TO CENTER OF WALL.
8. PROVIDE WALL BACKING AT CASEWORK AND OVERHEAD SHELVING LOCATIONS.
9. ADD CONTROL JOINTS TO GYPSUM BOARD WHERE PARTITIONS OR WALLS ARE OF 30' OR LONGER IN UNINTERRUPTED LENGTH.
10. DOOR DIMENSIONS
    A. DOOR CORNER DIMENSION: TYPICAL DIMENSION FROM PARTITION CORNER TO HINGE SIDE OF DOOR OPENING IS 6" (U.O.N.)
    B. DIMENSION TO PUSH SIDE OF DOOR: MIN. DIMENSION FROM PARTITION CORNER TO THE LATCH SIDE OF A DOOR OPENINGS IS 12" ON THE PUSH SIDE OF THE DOOR (U.O.N.)
    C. DIMENSION TO PULL SIDE OF DOOR: MIN. DIMENSION FROM A PARTITION CORNER TO THE LATCH SIDE OF A DOOR OPENING IS 18" ON THE PULL SIDE OF THE DOOR (U.O.N.).
11. PROVIDE MOISTURE RESISTANT CEMENTITIOUS BOARD AT ALL WET AREAS.
12. TOILET ACCESSORY NOTES:
    A. PROVIDE PAPER TOWEL DISPENSERS AT ALL SINKS.
    B. PROVIDE SOAP DISPENSER AT ALL SINKS.
13. PROVIDE ACOUSTICAL INSULATION IN WALL OF THE FOLLOWING ROOMS; DIRECTORS OFFICE 103, ADULT TOILET 106, ADULT TOILET 141, ADMIN OFFICE 105

FLOOR PLAN LEGEND

- EXISTING EXTERIOR WALLS TO REMAIN, TYP.
- NEW WALL. REFER TO PARTITION SCHEDULE ON SHEET A6.10 FOR WALL TYPE
- PARTIAL HEIGHT WALL +42". SEE 8/A10.20 FOR CAP DETAILS
- X00 WALL TYPE- SEE LEGEND. "A" DENOTES ACOUSTIC INSULATION
- 100 X NEW DOOR SEE DOOR SCHEDULE SHEET A6.20
- 100X EXISTING DOOR TO REMAIN SEE DOOR SCHEDULE SHEET A6.20
- CASEWORK W/ PLASTIC LAMINATE SURFACE
- FIRE EXTINGUISHER CABINET

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LEVEL 2 FLOOR PLAN

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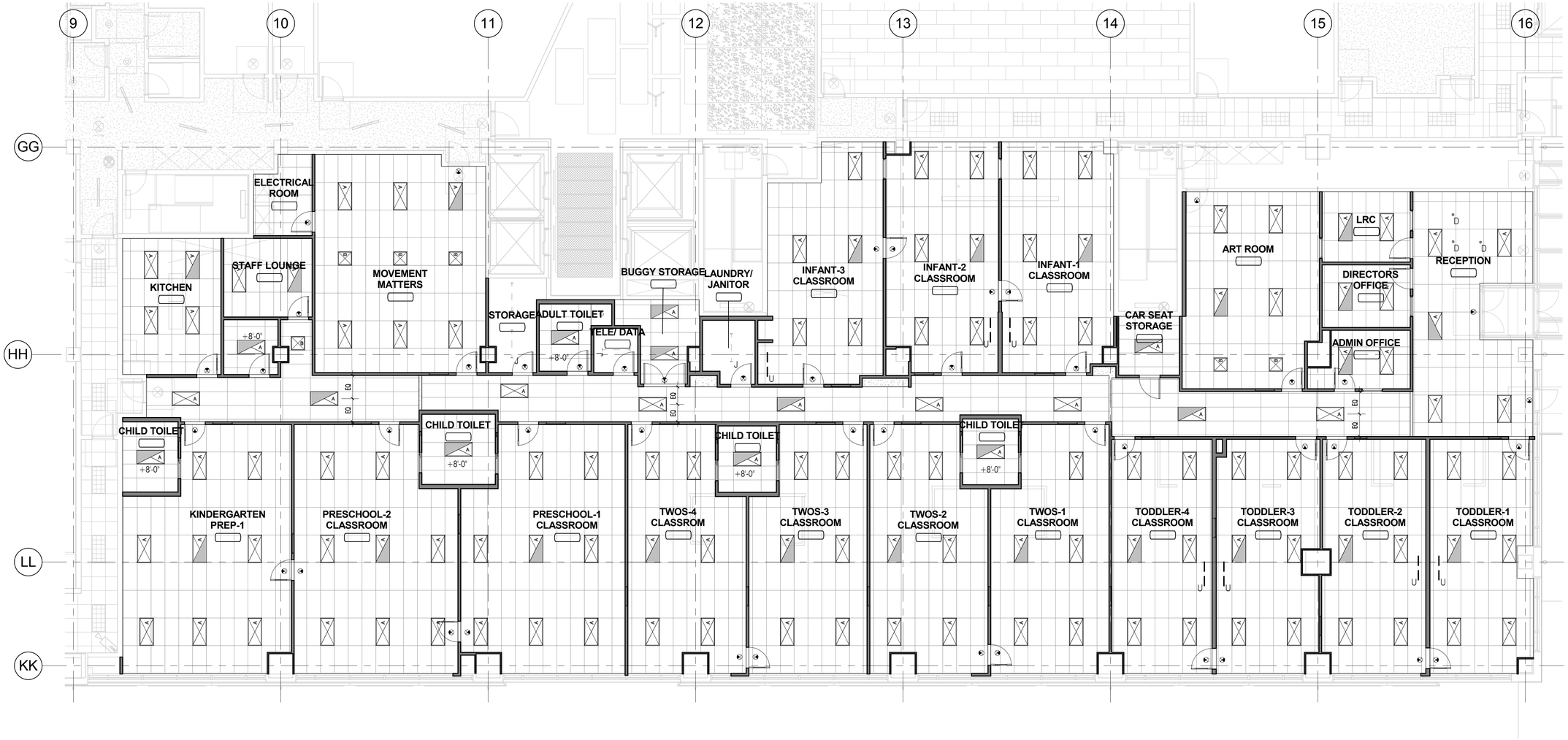
A2.22



1 LEVEL 2 REFLECTED CEILING PLAN

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

REFLECTED CEILING PLAN NOTES

GENERAL

1. ALL CEILINGS AT 9'-6" A.F.F. U.O.N.
2. PROVIDE SEISMIC BRACING AT ALL ACOUSTIC TILE CEILINGS PER DETAIL 6/A9.1.
3. CEILING GRIDS SHALL BE CENTERED IN ROOMS U.O.N
4. NOT ALL FIXTURES SHOWN ARE USED
5. PROVIDE SUPPORT FOR SUSPENDED GYPSUM CEILINGS PER DETAIL 14/A9.1.

LIGHT FIXTURES

1. ELECTRICAL DRAWINGS TO TAKE PRECEDENCE OVER EMERGENCY LIGHTING LOCATIONS & QUANTITIES.
2. ALL NON-LED LAMPS NOT BEHIND ACRYLIC LENSES TO COME WITH CHILD-PROTECTIVE SLEEVES PER ELECTRICAL

RCP ISSUES RELATED TO MECH., PLUMB, AND ELEC.

1. ARCHITECTURAL RCP TO TAKE PRECEDENCE OVER ELECTRICAL LIGHTING PLANS IN TERM OF LIGHT FIXTURE PLACEMENT. ELECTRICAL TAKES PRECEDENCE FOR FIXTURE SPECIFICATIONS.
2. ARCHITECTURAL RCP TO TAKE PRECEDENCE OVER MECHANICAL PLANS FOR DIFFUSER PLACEMENT. SEE MECHANICAL DRAWINGS FOR DIFFUSER AND RETURN GRILLE LOCATIONS AND INFORMATION AND OTHER TECHNICAL INFORMATION.
3. CONTRACTOR'S EVENTUAL SPRINKLER SUB-CONTRACTOR TO COORDINATE SPRINKLER HEAD LOCATIONS WITH THIS CEILING LAYOUT.
4. HVAC DIFFUSERS + GRILLES TO BE WHITE.

LIGHT FIXTURE SCHEDULE

A	2' X 4' RECESSED LED ACRYLIC LENS B.O.D. LITHONIA 2GTL-4-40L-A19-E21-LP835 EMERGENCY BACKUP
A1	2' X 4' RECESSED LED ACRYLIC LENS B.O.D. LITHONIA 2GTL-4-40L-A19-E21-LP835 (SURFACE MTG IN RATED CEILING)
B	2' X 2' RECESSED LED ACRYLIC LENS B.O.D. LITHONIA 2GTL-4-40L-A19-E21-LP835 (SURFACE MTG IN RATED CORRIDORS)
DD	MINI LED PENDANT DOWNLIGHT B.O.D. LITHONIA MDPB BNP WITH SHADE DGOT 1003 BOTTOM OF FIXTURE AT 6'-0" AFF
F	RECESSED LED DOWNLIGHT B.O.D LITHNIA 6SBE 30K 120V L7XLED T24
J	SURFACE MOUNTED LENSED LED STRIP LIGHT B.O.D. LITHONIA ZL2N-L4630000LM-MVOL-35K-80CRI-WH
U	UNDERCABINET LIGHT LED B.O.D LITHONIA UCLD-24-WH
WS	WALL SCONCE LED B.O.D. LITHONIA BACKPLATE WBLED, DIFF DLSD17 BN P01 6'-0" AFF
	EXIT LIGHT, EDGE LIT LED B.O.D. LITHONIA EDGRNY-1-EL-M4
	WALL MOUNTED BATTERY-POWERED EMERGENCY EGRESS LIGHT FIXTURE

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LEVEL 2 REFLECTED CEILING PLAN

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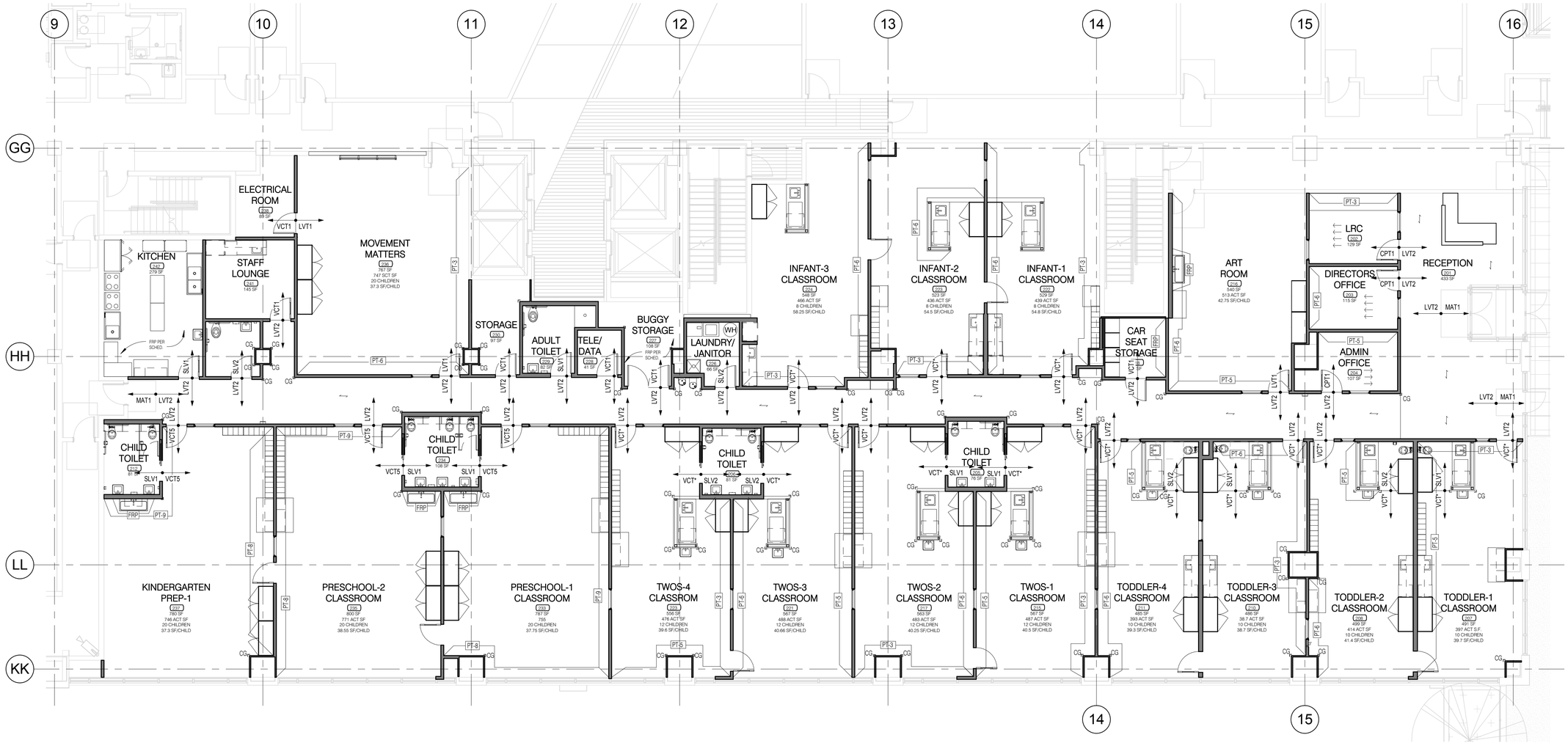


1 LEVEL 2 FINISH PLAN

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

0' 4' 8' 16' 32'

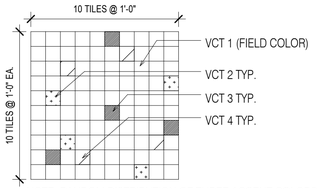
FINISH PLAN NOTES

GENERAL

1. FOR FINISH SCHEDULE SEE A6.31
2. FOR MATERIAL SCHEDULE SEE DRAWING A6.41
3. SEE PLAN FOR ACCENT COLOR LOCATIONS
4. SEE DETAIL ON THIS SHEET FOR VCT PATTERN INDICATED BY "VCT*"
5. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOORING MATERIALS.
6. PROVIDE ROLL DOWN SHADES ON EXTERIOR WINDOWS.
7. GWB TO BE PAINTED.

FINISH PLAN LEGEND

CG	CORNER GUARDS
	FLOORING TRANSITION
VCT*	VINYL COMPOSITE TILE (TYP. BRIGHT HORIZONS 1-FIELD WITH 3-ACCENT COLORS IN RANDOM PATTERN AT 5% EACH)
SLV	SHEET VINYL
MAT1	DECORIB (5/8" OVERALL THICKNESS)



NOTE: RANDOM DISTRIBUTION OF THREE ACCENT COLORS WITHIN A PRIMARY FIELD. THE QUANTITY OF ACCENT COLOR WILL BE EQUAL TO 15% OF THE TOTAL.

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LEVEL 2 FINISH PLAN

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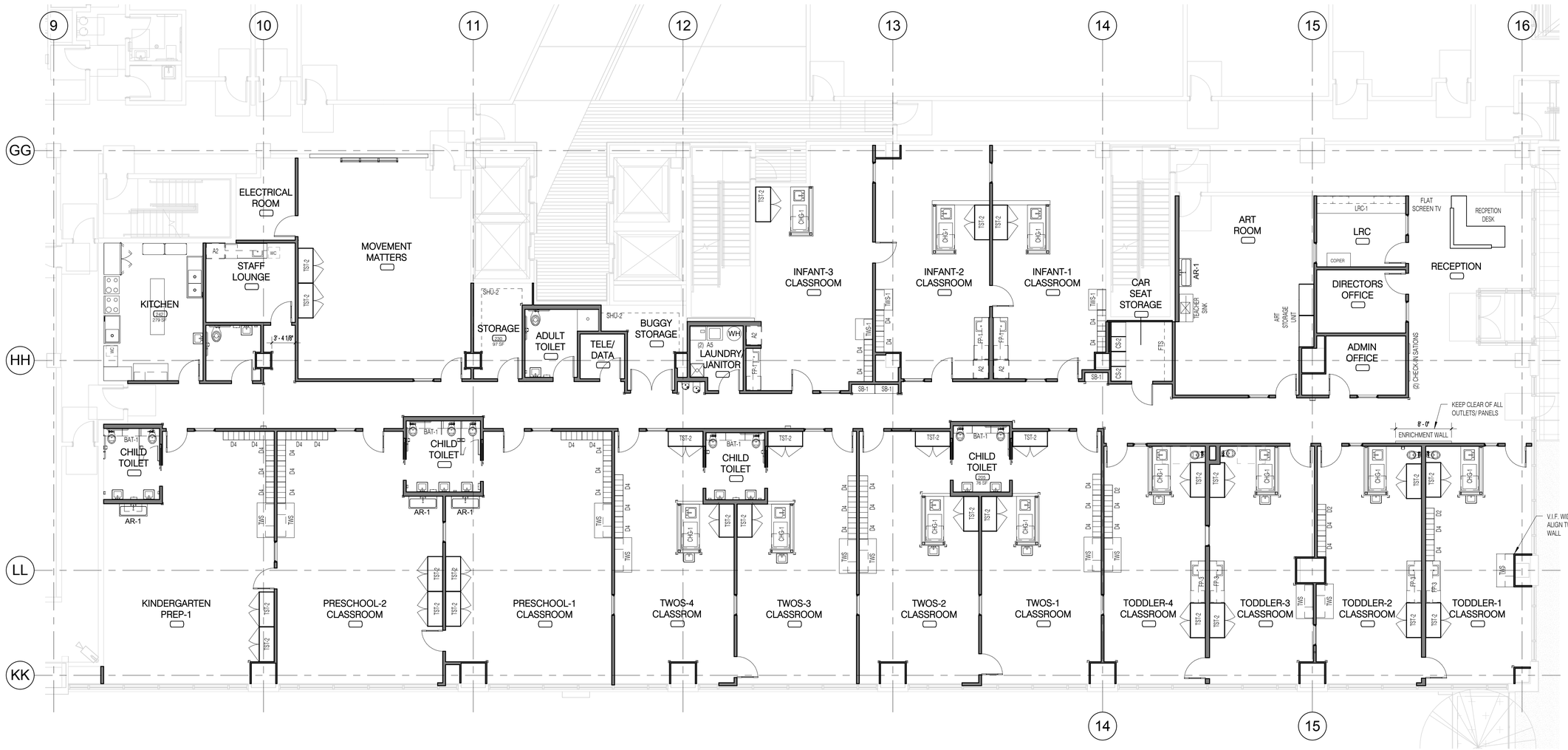

N

1 LEVEL 2 CASEWORK & EQUIPMENT PLAN

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

0' 4' 8' 16' 32'

CASEWORK NOTES

1. FOR ELEVATION OF TYPICAL CASEWORK TYPES SEE DRAWINGS A5.01
2. SEE DRAWING A4.01 FOR EQUIPMENT SCHEDULE
3. SEE ELECTRICAL DRAWINGS FOR CIRCUITING AND OUTLET TYPES. ELECTRICAL DRAWINGS TAKE PRECEDENCE OVER ARCHITECTURAL DRAWINGS FOR TECHNICAL INFO.
4. THIS DRAWING TAKES PRECEDENCE OVER ELECTRICAL DRAWINGS FOR DIMENSIONAL LOCATION OF ELECTRICAL, LOW VOLTAGE & OTHER DEVICES.
5. PROVIDE (2) CH-1 COAT HOOK IN EACH CLASSROOM, (1) AT 60", (1) AT 48".
6. VISUAL DISPLAY BOARDS TO BE PROVIDED AND INSTALLED BY CONTRACTOR. PLACEMENT TO BE COORDINATED WITH OPERATIONS, ALLOW FOR (3) VDB-1 BOARDS PER CLASSROOM
7. CONTRACTOR TO COORDINATE WITH TENANT FOR PLACEMENT OF ALL SOAP DISPENSERS, PAPER TOWEL DISPENSERS AND VISUAL DISPLAY BOARDS.

CASEWORK LEGEND

ABBREVIATIONS	NAME	
AR	ACTIVITY SINK CASEWORK	A5.01
BAT	BATHROOM CABINETS	A5.01
D2/D4	CUBBIES	A5.01
CHANGING STATION	CHANGING STATION	A5.01
CSU	CARSEAT STORAGE	A5.01
FP-1, FP-2	CLASSROOM FOOD PREP	A5.01
LRC	LEARNING RESOURCE CENTER	A5.01
SB-1 SB-2	SHOE BENCH	A5.01
SHU	TYPICAL SHELVING	A5.01
TST	TALL STORAGE UNIT	A5.01
TWS	TEACHERS WORK STATION	A5.01
VDB	VISUAL DISPLAY BOARDS	A5.01

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LEVEL 2 CASEWORK & EQUIPMENT PLAN

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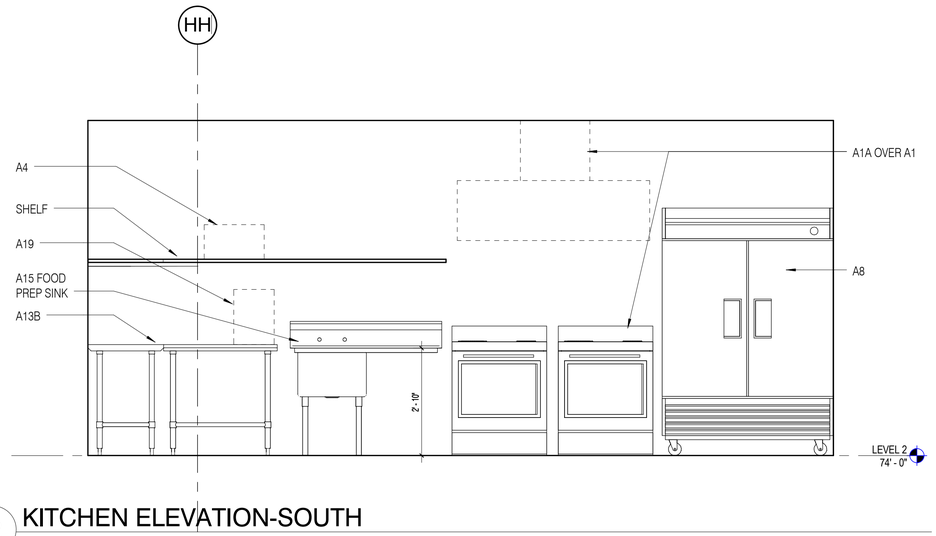
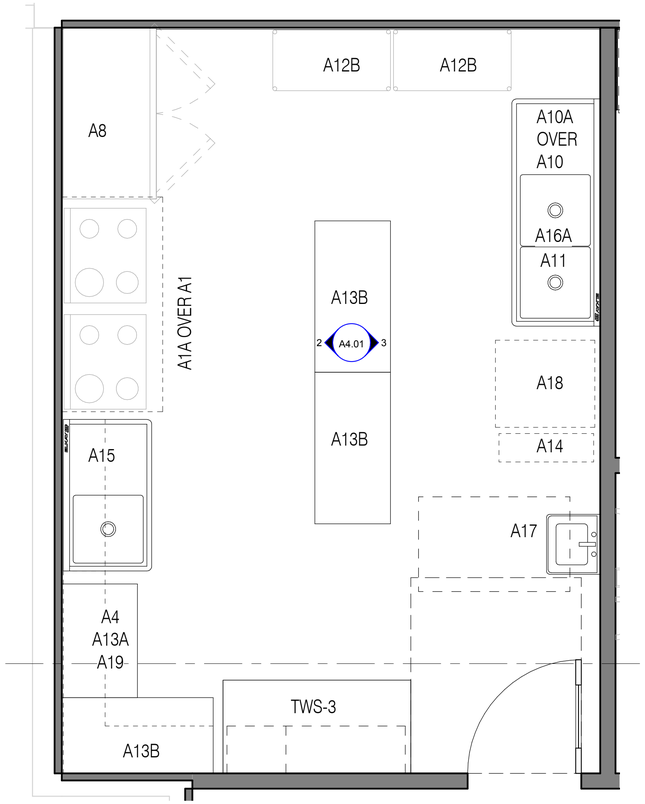
A2.25



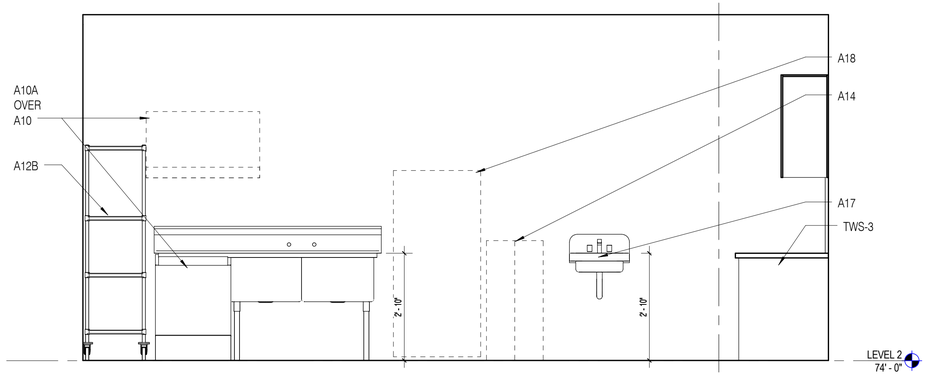
2 KITCHEN ELEVATION-SOUTH

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



1 ENLARGED KITCHEN

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



3 KITCHEN ELEVATION-NORTH

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

EQUIPMENT LEGEND

SEE ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS

A1 RANGE
GENERAL ELECTRIC, MODEL JBP250DF 30" FREESTANDING ELECTRIC RANGE, 4 OPEN BURNERS APPROX DIMS: 29 7/8 "W x 46 7/8 H x 27 3/4" D

A1A TYPE-2 HOOD
CAPTIVE AIR 6'-0"W X 3'-0"D X 1'-0"H STAINLESS STEEL HOOD WITH INTEGRAL LIGHT.

A2 REFRIGERATOR
GE 15.5 CU. FT MODEL GTS16GSHSS APPROX DIMS 64 3/4" H x 28" W x 29 1/2" D

A3 DISHWASHER
GE TALL TUBE BUILT IN DISHWASHER MODEL GLDA690MWW, APPROX DIMS: 23 9/16"W x 21 5/8"D x 32 1/2" H

A4 MICROWAVE
PANASONIC COMMERCIAL MICROWAVE MODEL # NE-1064F, 20-1/8"W X 16-3/8"D X 12"H

A5 STACKED WASHER/DRYER
MAYTAG STACEKD WASHER/DRYER (WITHOUT COIN) MODEL # MLE20PRCWW, 27"W X 29"D X 45.75"H

A7 COMPACT REFRIGERATOR
SUMMIT UNDER COUNTER COMMERCIAL REFRID. MODEL #FF511LXB17SSTBADA (ACCUCOLD) NO LOCK

A9 KITCHEN REF/FREEZER
TRUE, MODEL T-49DT, REACH-IN, 46 CU FT., (6) SHELVES, EXTERIOR 300 SERIES S/S FRONT, ALUM ENDS, INTERIOR WHITE ALUM WITH 300 SERIES S/S FLOOR, (2) S/S HINGED DOORS W BARREL DOOR LOCKS, DIAL THERMOMETER, 4" CASTORS, 1/3 HP REF, 1/2 HP FZR, 115V/208, 16 AMPS, NEMA 5-15P, DIMS 54 1/8"W x 29-1/2"D x 78-3/8"H.

A10 KITCHEN DISHWASHER
HOBART, MODEL LXeH-2, UNDERCOUNTER DW, 32 RACKS/HR, 0.74 GALLONS PER RACK, FRESH WATER RINSE, DELIME NOTIFICATION, SERVICE DIAGNOSTICS, WITH 70 DEGREE BOOSTER HEATER & PUMP CAPABILITY, DETERGENT & RINSE AID PUMPS, 120/208-240, SINGLE PHASE. DIMS: 23-15/16"W x 25-9/16"D x 32 -1/2"H. WEIGHT: 210 LBS. WARRANTY: 1-YR PARTS, LABOR, TRAVEL TIME DURING NORMAL WORKING HOURS.

A10A DRYING RACK
ELKAY SSP SLANT 42, WALL MTD 42° WIDE STAINLESS STEEL DRYING RACK OVER DISHWASHER

A11 KITCHEN DISPOSAL
INSINKERATOR MODEL NO. SS-100-5-CC101

A12A METRO, SUPER ERECTA WIRE SHELVING UNITS #1836BR, (4) 86-5/8" H POSTS WITH (5) 18"W X 24"L, BRIGHT ZINC FINISH SHELVES.

A12B METRO, SUPER ERECTA WIRE SHELVING UNITS #1836BR, (4) 86-5/8" H POSTS WITH (5) 18"W X 36"L, BRIGHT ZINC FINISH SHELVES.

A13B STAINLESS STEEL TABLE-48" WIDE
SSP, INC (SPOKANE STAINLESS) MODEL WT24S48BS, STAINLESS STEEL WORK TABLE, DIMS 48"W x 24"D x 36"H W SHELF & DRAWER BELOW

A14 CARLISLE SERVING CARTS
CARLISLE SERVING CARTS MODEL # SBC152103

A15 FOOD SINK PREP
ELKAY SSP E1C24X24-R-24X STAINLESS STEEL BASIN FOOD PREP SINK

A16A SCULLERY SINK
ELKAY SSP E2C24X24-R-24 ECONOMY SINK SERIES, 2-COMPARTMENT STAINLESS STEEL SINK WITH SIDEBOARD ONE SIDE. FAUCET TO BE T&S BRASS AND BRONZE WORKS B-2817 FLEXIBLE HOSE WAND

A17 HANDWASHING SINK
ELKAY HAND SINK TYPE 304 MODEL # CHS1716C

A18 METRO WARMER
INSUALTION ARMOUR- MODEL # C5-3 DIMS: 27.63"W X 31.5"D

A19 COUNTERTOP WATER COOLER
ACCUPURE THE ACCENT SERIES SQC-3 RMS#398/214 DIMS: 12.8"Wx17.1" D x 17.5" H

TWS-3 WORKSTATION STAINLESS STEEL
BASIS OF DESIGN ELKAY SSP: 5'-0" STAINLESS STEEL TABLE WITH 5'0'w STAINLESS STEEL SHELF & BASIS OF DESIGN ACE EQUIPMENT 3'-0"W X 30" H X 1'-3" D STAINELSS STEEL SLIDING DOOR CABINET

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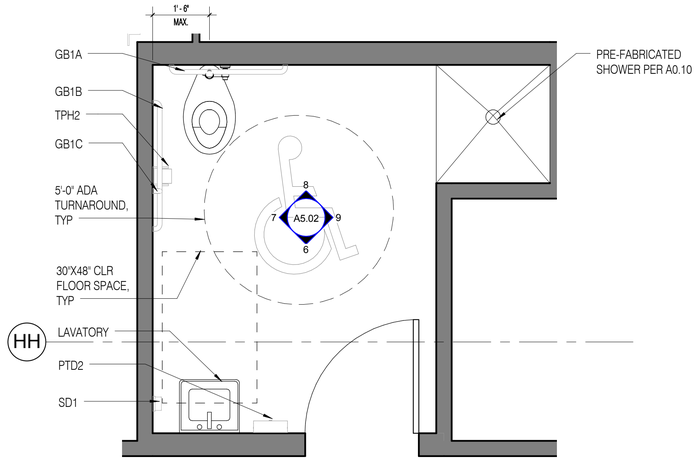
425 URBAN PLAZA
KIRKLAND, WA 98033

ENLARGED KITCHEN

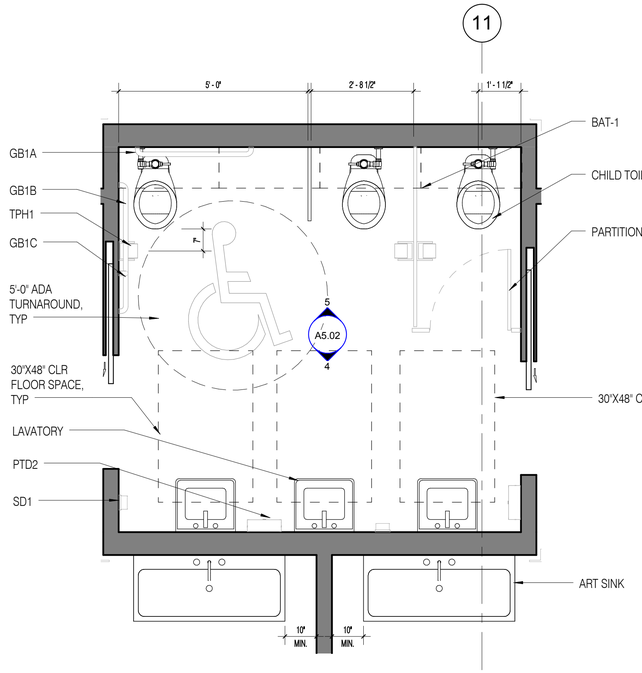
SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A4.01



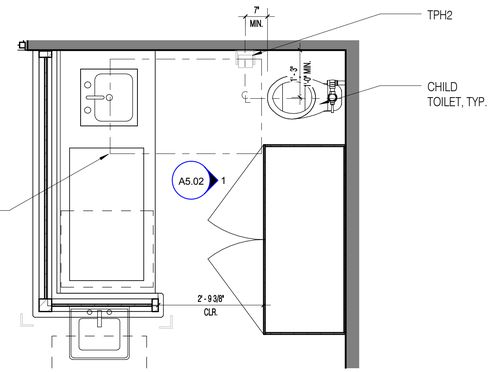
5 ADULT BATHROOM-SHOWER

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



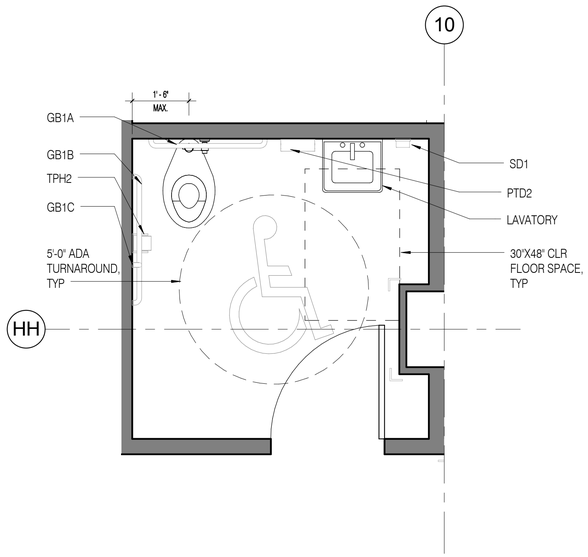
3 PRESCHOOL BATHROOM, TYP.

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



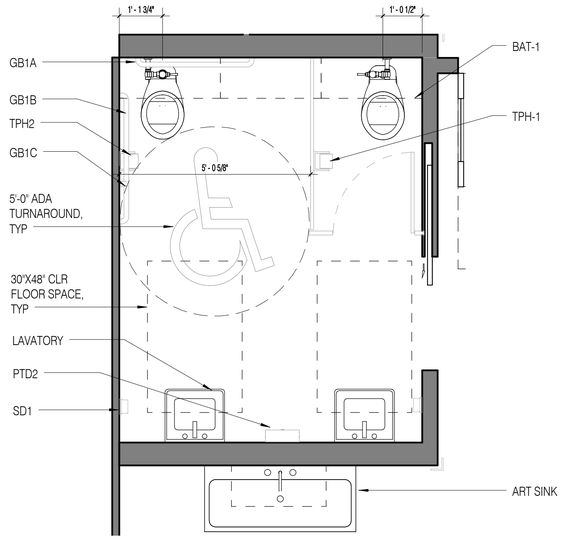
1 TODDLER BATHROOM, TYP.

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



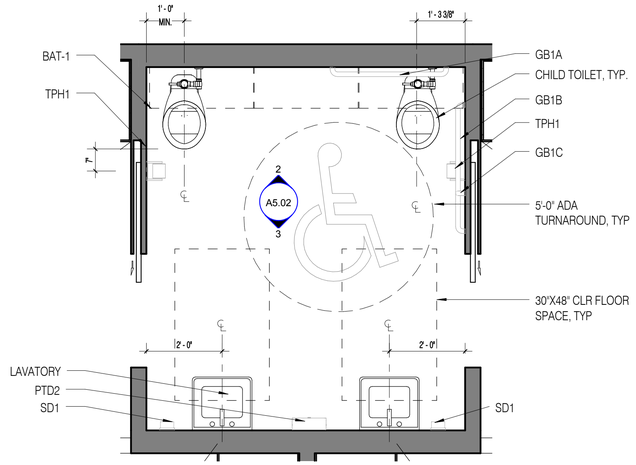
6 ADULT BATHOOM

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



4 KINDERGARTEN BATHROOM

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



2 TWOS BATHROOM, TYP.

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

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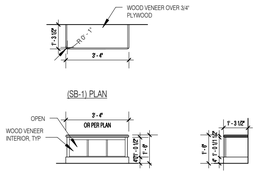
ENLARGED BATHROOMS

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A4.02

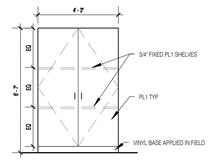
PULL UP BAR ELEVATION (KPUB) PULL UP BAR SECTION (KPUB)

1 KAPLAN #87904 PULL UP BAR
SCALE: 1/4" = 1'-0"

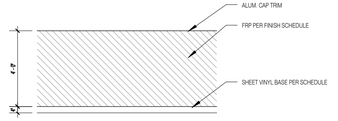


(SB-1) PLAN (SB-1) ELEVATION (SB-1) SIDE

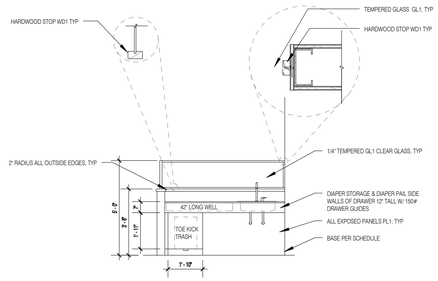
2 SHOE BENCH
SCALE: 1/4" = 1'-0"



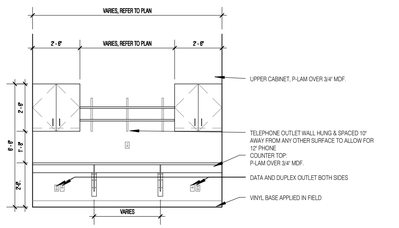
3 CARSEAT STORAGE
SCALE: 1/4" = 1'-0"



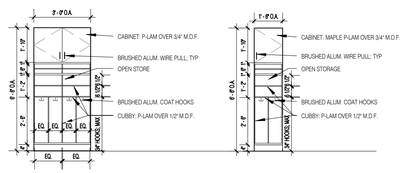
4 TYPICAL FRP WAINSCOT ELEVATION
SCALE: 1/4" = 1'-0"



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



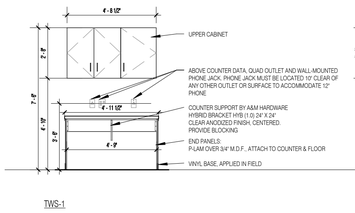
6 LRC WORK STATION ELEVATION
SCALE: 1/4" = 1'-0"



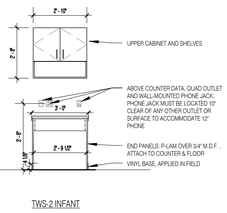
TYP CUBBIE UNIT-D4

TYP CUBBIE UNIT-D2 SCALE

8 CUBBY - ELEVATION
SCALE: 1/4" = 1'-0"

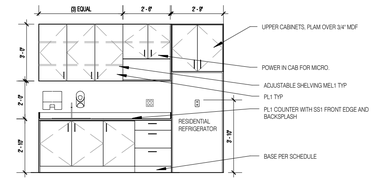


TWS-1

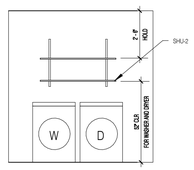


TWS-2 INFANT

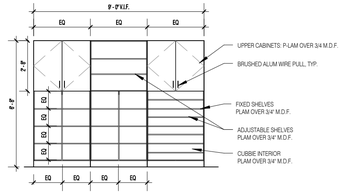
9 TEACHER WORK STATION - ELEVATION
SCALE: 1/4" = 1'-0"



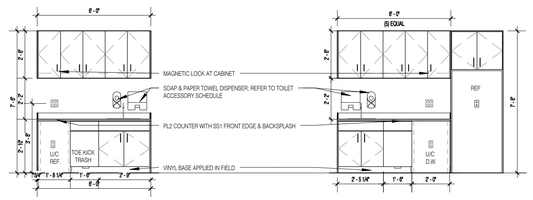
10 STAFF LOUNGE
SCALE: 1/4" = 1'-0"



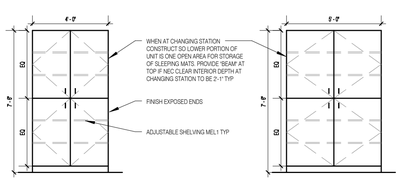
12 LAUNDRY
SCALE: 1/4" = 1'-0"



13 ART ROOM STORAGE
SCALE: 1/4" = 1'-0"

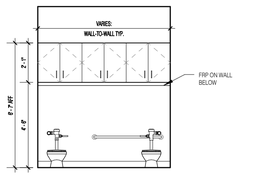


14 CLASSROOM FOOD PREP
SCALE: 1/4" = 1'-0"

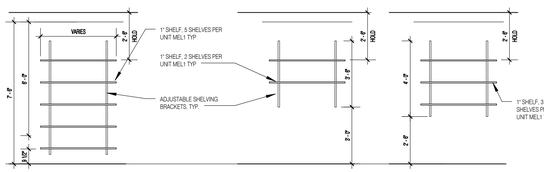


TALL STORAGE UNIT (TST-1) TALL STORAGE UNIT (TST-2)

16 TALL STORAGE UNITS
SCALE: 1/4" = 1'-0"

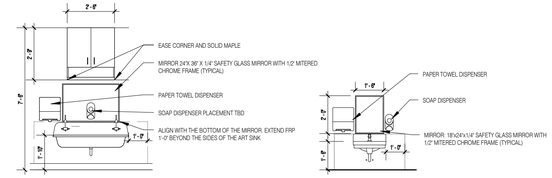


17 BATHROOM CABINETS (BAT-1)
SCALE: 1/4" = 1'-0"



SHU-1 SHU-2 SHU-3

18 TYPICAL SHELVING
SCALE: 1/4" = 1'-0"



PRESCHOOL ART SINK SETUP (AR-1) ART SINK SETUP (AR-2)

19 ACTIVITY SINK CASEWORK
SCALE: 1/4" = 1'-0"

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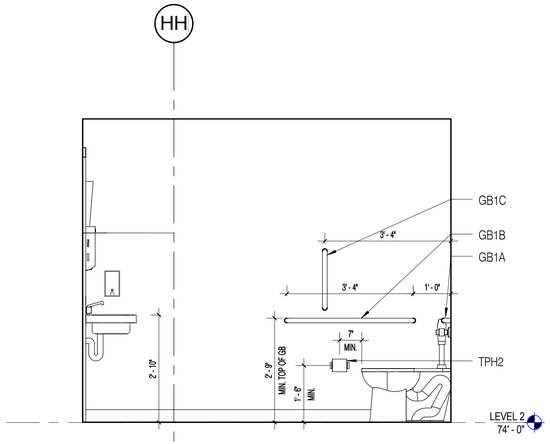
INTERIOR ELEVATIONS
CASEWORK KEY ELEVATIONS

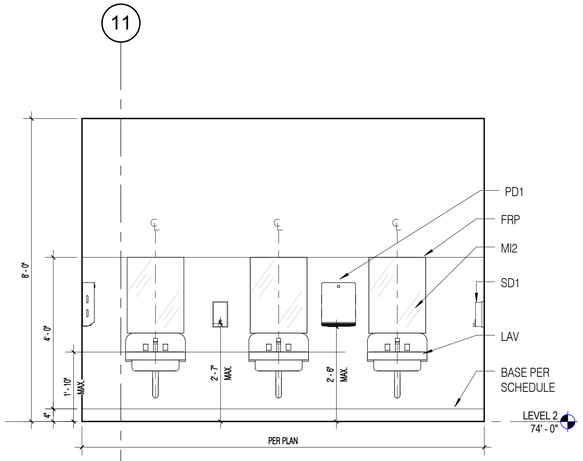
SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A5.01



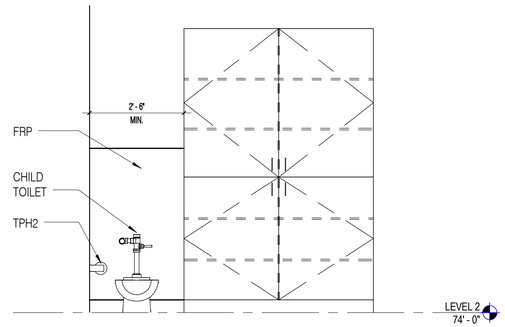
7 ADULT TOILET 229-B

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



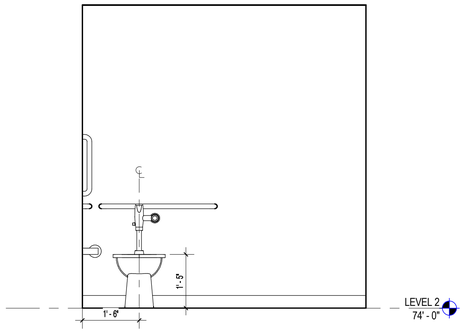
4 TYP. PRESCHOOL TOILET -LAVS

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



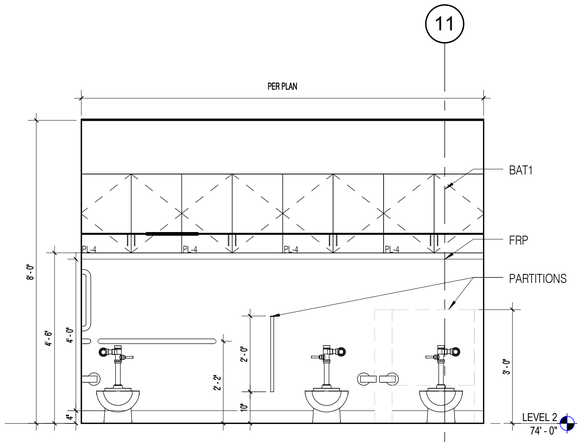
1 TYPICAL TODDLER TOILET

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



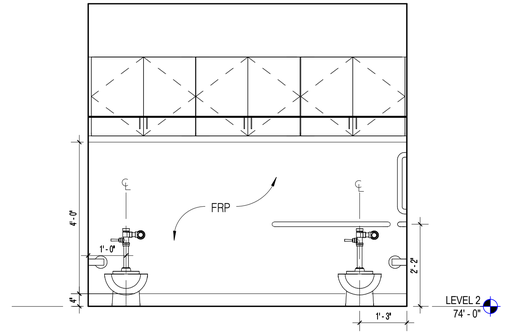
8 ADULT TOILET 229-C

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



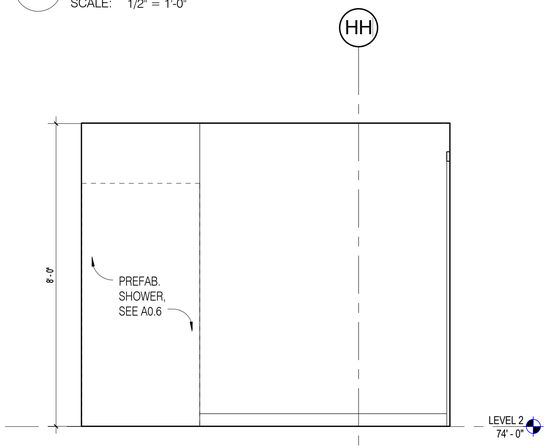
5 TYP. PRESCHOOL TOILET-WC

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



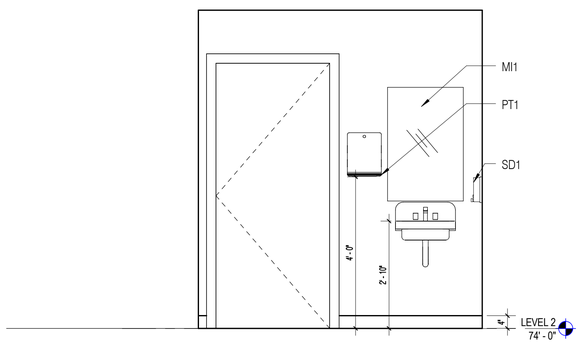
2 TYP. TWOS TOILET-WC

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



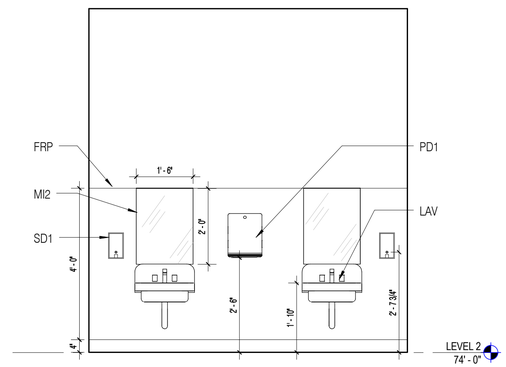
9 ADULT TOILET 229 - D

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



6 ADULT TOILET 229 - A

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



3 TYP.TWOS TOILET-LAV

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

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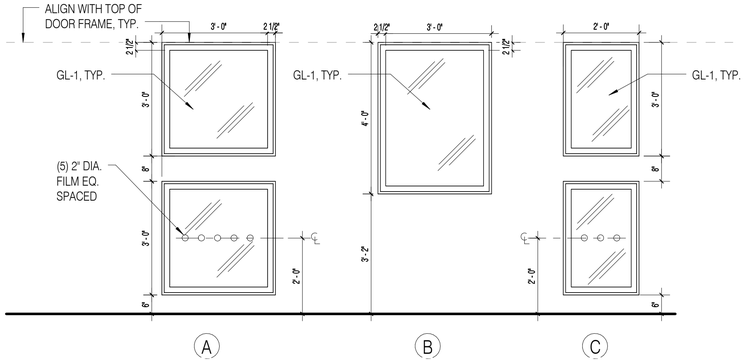
BATHROOM ELEVATIONS

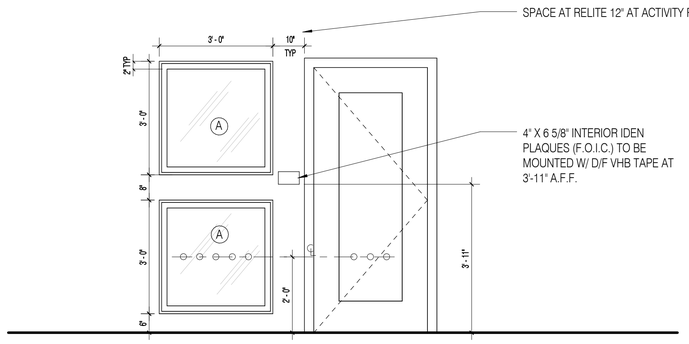
SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

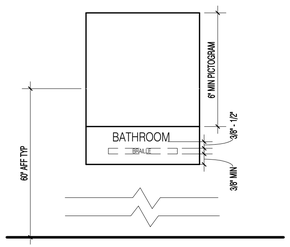
A5.02

RELITE TYPES

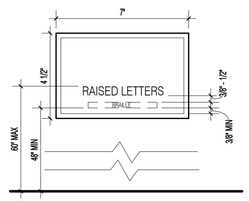


SIGNAGE





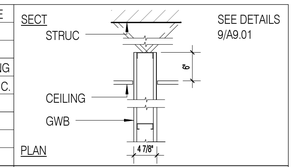
ADMIN, TOILETS, LAUNDRY, STORAGE ROOMS



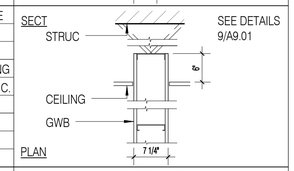
CLASSROOMS

PARTITION DETAILS

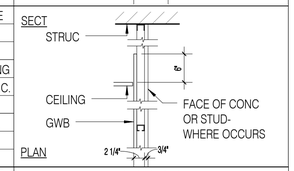
B03	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	3-5/8"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



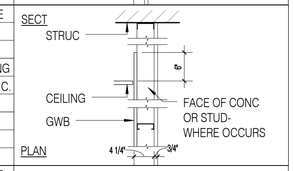
B06	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	6"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



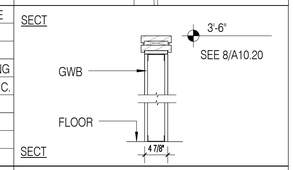
B51	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	1-5/8"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



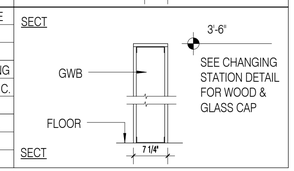
B53	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	3-5/8"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



D03	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	3-5/8"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



D06	RATING	VALUE
	FIRE	NR
	STC	-
FRAME:	SIZE/GAUGE	SPACING
	6"/22	24" O.C.
FACING:	MATERIAL	THK
	GWB	5/8"
	GWB	5/8"



PARTITION SCHEDULE NOTES

1. NOT ALL PARTITIONS LISTED ARE NECESSARILY USED.
2. THE PARTITION TYPE ABOVE OR BELOW (OR ON EITHER SIDE OF A PARTICULAR OPENING) IS TO BE THE SAME THAT IS SCHEDULED FOR EITHER SIDE OF THE OPENING (U.N.O.)
3. DIFFERING PARTITION TYPES SHALL ALIGN SO THAT WALL PLANES CONTINUE UNBROKEN IN ROOMS (U.O.N.)
4. IN CASES WHERE TWO DIFFERENT CEILING HEIGHTS ABUT PARTITIONS, THE GWB SHALL EXTEND ABOVE THE HIGHEST CEILING DETAILED. partition SURFACES SHOWN TERMINATING ABOVE A CEILING ARE TO CONTINUE TO THE UNDERSIDE OF STRUCTURE IN THOSE ROOMS WHERE NO CEILING IS SCHEDULED.
5. PROVIDE HORIZONTAL BRACING FOR ALL FURRED PARTITIONS. PROVIDE 18 GAGE ANGLE CLIPS AT 4'-0" O.C. MAX SECURED TO STUDS AND CONCRETE OR CMU WALLS.
6. ALL GWB TO BE TYPE-X.
7. SEE WALL AND DOOR DETAILS ON A9 SERIES DRAWINGS FOR FURTHER DETAILS AND REQUIREMENTS.
8. BOTTOM RUNNER TRACKS SHALL BE SET IN CONTINUOUS ACOUSTICAL SEALANT AT EACH SIDE.
9. PROVIDE CEMENTITIOUS BOARD (NO PAPER) AT ALL WET LOCATIONS.
10. MAXIMUM STUD HEIGHTS: (PER SSMA, (AISI COMPLIANT SPECS))

3-5/8"	22GA COMPOSITE STUDS @ 24" O.C. =	13'-9"
6"	22GA COMPOSITE STUDS @ 24" O.C. =	16'-9"
3-5/8"	20GA COMPOSITE STUDS @ 24" O.C. =	15'-11"
6"	20GA COMPOSITE STUDS @ 24" O.C. =	21'-11"
3-5/8"	18GA COMPOSITE STUDS @ 24" O.C. =	17'-1"
6"	18GA COMPOSITE STUDS @ 24" O.C. =	26'-3"

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9049 REGISTERED ARCHITECT
ARTHUR AKIRA FURUKAWA
STATE OF WASHINGTON

City of Kirkland
Reviewed by AHaupt
06/21/2018

PERMIT SET
18 JANUARY 2018

PERMIT SET	18 JAN 2018
DESIGN DEV.	26 OCT 2017

Bright Horizons FAMILY SOLUTIONS®

BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

PARTITION AND RELITE INFORMATION

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A6.11

DOOR SCHEDULE																	
Mark	From Room: Name	To Room: Name	Door Swing	Width	Height	Fire Rating	Type	Thickness	Door Material	Door Finish	Frame Type	Frame Material	Frame Finish	Head-Detail	Jamb-Detail	Hardware Group	Door Notes
202.A	RECEPTION	LRC	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	ADD TRANSLUCENT FILM
203.A	RECEPTION	DIRECTORS OFFICE	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-2	
204.A	HALL	ADMIN OFFICE	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-2	
205.A	CHILD TOILET	TWOS-1 CLASSROOM	SLD	3' - 0"	7' - 0"	NR	D4	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	7/A9.1	HW-5	POCKET DOOR
205.B	TWOS-2 CLASSROOM	CHILD TOILET	SLD	3' - 0"	7' - 0"	NR	D4	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	7/A9.1	HW-5	POCKET DOOR
206.A	CHILD TOILET	TWOS-3 CLASSROOM	SLD	3' - 0"	7' - 0"	NR	D4	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	7/A9.1	HW-5	POCKET DOOR
206.B	TWOS-4 CLASSROM	CHILD TOILET	SLD	3' - 0"	7' - 0"	NR	D4	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	7/A9.1	HW-5	POCKET DOOR
207.A	HALL	TODDLER-1 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
207.B	TODDLER-2 CLASSROOM	TODDLER-1 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
208.A	HALL	TODDLER-2 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
210.A	HALL	TODDLER-3 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
211.A	HALL	TODDLER-4 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
211.B	TODDLER-4 CLASSROOM	TODDLER-3 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
212.A	CHILD TOILET	KINDERGARTEN PREP-1	SLD	3' - 0"	7' - 0"	NR	D3	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	15/A9.1	HW-5	POCKET DOOR
215.A	HALL	TWOS-1 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
215.B	TWOS-2 CLASSROOM	TWOS-1 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
216.A	HALL	ART ROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
217.A	HALL	TWOS-2 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
218.A	HALL	CAR SEAT STORAGE	RHR	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	
221.A	HALL	TWOS-3 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
221.B	TWOS-4 CLASSROM	TWOS-3 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
222.A	HALL	INFANT-1 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
222.B	INFANT-1 CLASSROOM	INFANT-2 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
223.A	HALL	TWOS-4 CLASSROM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
223.A	HALL	INFANT-2 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
223.B	INFANT-2 CLASSROOM	INFANT-3 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
224.A	HALL	INFANT-3 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
226.A	HALL	LAUNDRY/ JANITOR	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	
227.A	HALL	BUGGY STORAGE	RHR/LHR	6' - 0"	7' - 0"	NR	D5	0' - 1 3/4"	WD2	CLR	F2	HM	PT-4	8/A9.1	7/A9.1	HW-3	
228.A	HALL	TELE/ DATA	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	
229.A	HALL	ADULT TOILET	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-6	
230.A	HALL	STORAGE	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
233.A	HALL	PRESCHOOL-1 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
234.A	PRESCHOOL-1 CLASSROOM	CHILD TOILET	SLD	3' - 0"	7' - 0"	NR	D3	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	15/A9.1	HW-5	POCKET DOOR
234.B	PRESCHOOL-2 CLASSROOM	CHILD TOILET	SLD	3' - 0"	7' - 0"	NR	D3	0' - 1 3/4"	WD2	CLR	F1	WD	CLR	-	15/A9.1	HW-5	POCKET DOOR
235.A	HALL	PRESCHOOL-2 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
235.B	PRESCHOOL-2 CLASSROOM	PRESCHOOL-1 CLASSROOM	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
236.A	HALL	MOVEMENT MATTERS	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
237.A	HALL	KINDERGARTEN PREP-1	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
237.B	KINDERGARTEN PREP-1	PRESCHOOL-2 CLASSROOM	LH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-1	
238.A	MOVEMENT MATTERS	ELECTRICAL ROOM	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	
239.A	HALL	ADULT TOILET	RH	3' - 0"	7' - 0"	NR	D1	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-6	
241.A	HALL	STAFF LOUNGE	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	ADD TRANSLUCENT FILM
245.A	HALL	KITCHEN	RH	3' - 0"	7' - 0"	NR	D2	0' - 1 3/4"	WD2	CLR	F1	HM	PT-4	8/A9.1	7/A9.1	HW-3	ADD TRANSLUCENT FILM

EXISITING DORRS BY OTHERS

TAG	ORIENTATION			DOOR							FRAME						HARDWARE GROUP
				DOOR SIZE	REQ FIRE									HEAD	JAMB	SILL	
NUM	FROM ROOM	TO ROOM	HAND	W X H	RATING	TYPE	THCK (IN)	MAT	FIN	GLAZ	TYPE	MAT	FIN	DET	DET	DET	
EXISTING DOORS																	
228A	RECEPTION	EXTERIOR	RH/LH	6'-0"x8'-0"	NR	-	-	-	-	CLR	AL	-	-	-	-	-	PANIC HARDWARE
228B	RECEPTION	EXTERIOR	LH	3'-0" 7'-0"	NR	-	-	-	-	CLR	AL	-	-	-	-	-	PANIC HARDWARE
228C	HALL	CORRIDOR	RH/LH	3'-0" 7'-0"	45 MIN.	-	-	-	-	CLR	HM	-	-	-	-	-	PANIC HARDWARE
228D	ART ROOM	CORRIDOR 206	LHR	3'-0" 7'-0"	45 MIN.	-	-	-	-	CLR	HM	-	-	-	-	-	ENTRY
206B	CORRIDOR 206	EXTERIOR	RH/LH	3'-0" 7'-0"	NR	-	-	-	-	CLR	HM	-	-	-	-	-	PANIC HARDWARE
210D	CORRDOR	CORRIDOR 210	RH/LH	3'-0" 7'-0"	NR	-	-	-	-	CLR	HM	-	-	-	-	-	PANIC HARDWARE
210H	MMZ	CORRIDOR 210	LH	3'-0" 7'-0"	45 MIN.	-	-	-	-	CLR	HM	-	-	-	-	-	PANIC HARDWARE

DOOR SCHEDULE LEGEND

NUM.= DOOR NUMBER
REFERS TO NUMBERS ON FLOOR PLAN.

FROM ROOM = ROOM FROM WHICH ONE APPROACHES . THE CONTROLLED SIDE OF DOOR

TO ROOM= ROOM TO WHICH ONE SEEKS TO GAIN ENTRY

HAND = DOOR HANDING
LH= LEFT HAND
RD- RIGHT HAND
LHR= LEFT HAND REVERSE
RHR= RIGHT HAND REVERSE
'A' = DENOTES ACTIVE SIDE

DOOR SIZE = DOOR SIZE
(WIDTH X HEIGHT, IN FEET & INCHES)

FIRE RATING= CODE REQUIRED FIRE RATING
NR = NOT RATED

TYPE = DOOR TYPE
SEE "DOOR TYPES" ON THIS SHEET

THCK.= DOOR THICKNESS
IN INCHES

DOOR MAT = DOOR MATERIAL
HM = HOLLOW METAL
WD = SOLD CORE WOOD
GALV = GALVANIZED

DOOR FIN= DOOR FINISH
PT = PAINT
ST = STAIN
GALV = GALVANIZED

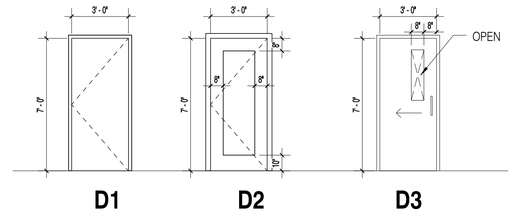
GLAZ = DOOR GLAZING; IF ANY
SEE MATERIAL SCHEDULE

FRAME TYPE = DOOR FRAME TYPE
SEE FRAME TYPES ON THIS SHEET

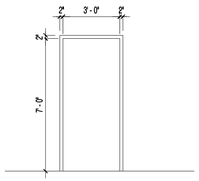
FRAME MAT= DOOR FRAME MATERIAL
AL= ALUMINUM
HM= HOLLOW METAL
WD= WOOD
GALV= GALVANIZED

FRAME FIN = DOOR FRAME FINISH
CLR= CLEAR ANODIZED
PT= PAINT
GALV= GALVANIZED

DOOR TYPES



FRAME TYPES



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9049 REGISTERED ARCHITECT
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BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

DOOR SCHEDULE

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A6.21

DOOR AND HARDWARE NOTES

1. DOOR MATERIAL
   - A. HOLLOW METAL DOORS
     - A.1. SHALL BE 18-GAUGE WITH 16-GAUGE TOP AND BOTTOM RAILS (U.O.N.).
     - A.2. HINGE REINFORCEMENT: SHALL BE CONTINUOUS 11-GAUGE CHANNEL (U.O.N.).
     - A.3. CLOSER REINFORCEMENT: SHALL BE 12-GAUGE BOX-TYPE (U.O.N.).
   - B. WOOD DOOR MATERIAL & FINISH
     - B.1. WOOD DOORS WITH EXPOSED FINISH ARE TO BE CLEAR FINISHED MAPLE.
   - C. LABELS: FIRE-RATED DOORS SHALL COME WITH UL LABELS. LABELS NOT TO BE PAINTED OVER.
   - D. ASTRAGALS: ALL FIRE-RATED DOUBLE DOORS TO HAVE ASTRAGALS.
2. DOOR FRAMES
   - A. HOLLOW METAL FRAMES
     - A.1. SHALL BE FORMED FROM 18-GAUGE COLD ROLLED STEEL (U.O.N.).
     - A.2. FRAME DIMENSIONS: SHALL HAVE 2" FACE JAMBS AND HEADS (U.O.N.)
     - A.3. CORNERS: FRAME CORNERS SHALL HAVE FULLY WELDED MITERED CORNERS. WELDING SHALL BE FACE TYPE AND GROUND SMOOTH.
     - A.4. CLOSER REINFORCEMENT: FRAMES SHALL HAVE 12-GAUGE CLOSER REINFORCEMENT.
     - A.5. ANCHORS: FRAMES SHALL BE ANCHORED WITH A MINIMUM OF (2) FLOOR ANCHORS AND (6) WALL ANCHORS.
     - A.6. LABELS: FIRE-RATED DOOR AND RELITE FRAMES SHALL COME WITH UL LABELS. LABELS NOT TO BE PAINTED OVER.
3. HARDWARE
   - A. DOOR HANDLES: ALL DOORS TO HAVE LEVER-TYPE OPERATING HARDWARE (U.O.N.).
   - B. FINISHES: HARDWARE TO BE US26D BRUSHED-CHROME (U.O.N.).
   - C. SILENCERS: PROVIDE SILENCERS FOR ALL DOORS THAT DO NOT HAVE SCHEDULED GASKETS.
4. FUNCTIONALITY
   - A. EGRESS: ALL DOORS TO BE OPERABLE FROM INSIDE (ALONG DIRECTION OF EGRESS) WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
   - B. FAIL SAFE (OPEN): ALL ELECTRONIC DEVICES SUCH AS DOOR INTERLOCKS ARE TO AUTOMATICALLY FAIL SAFE (OPEN) IN AN EMERGENCY SITUATION SO OCCUPANTS ARE FREE TO EXIT.
   - C. DOOR CLOSERS: SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM.
   - D. DOOR OPENING FORCE (ICC A117.1 SECTION 404.2.8): FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS.
     - D.1. INTERIOR HINGED DOOR: 5 POUNDS MAX.
     - D.2. SLIDING OR FOLDING DOOR: 5 POUNDS MAX
     - D.3. EXTERIOR HINGED SLIDING OR FOLDING DOOR: 5 POUNDS MAX
   - E. DOOR THRESHOLDS: SHALL BE A MAXIMUM OF 1/2" HEIGHT WITH A 1:2 VERTICAL TO HORIZONTAL BEVEL PROPORTION
   - F. KEYING: CONTRACTOR TO COORDINATE KEYING MEETING WITH DOOR SUBCONTRACTOR, LANDLORD, TENANT & ARCHITECT.
   - G. NOT USED.
5. BASIS OF DESIGN
   - A. HINGES: HAGER - BB1279 TYPICAL
   - B. LOCKSETS: YALE 8800 SERIES
   - C. TRIM: YALE CARMEL LEVER
   - D. CYLINDERS: YALE
   - E. FLUSH BOLTS: HAGER 282D
   - F. DUSTPROOF STRIKE: HAGER
   - G. CLOSERS: DORMA 8900 SERIES
   - H. KICK PLATES: HAGER STAINLESS STEEL 0.050" GAUGE
   - I. WALL STOPS: HAGER 236W
   - J. OVERHEAD STOPS: ARCHITECTURAL BUILDERS HARDWARE, 4400 SERIES
   - K. CONCEALED DOOR BOTTOMS: HAGER 742S
   - L. COAT HOOK: HAGER 941P
   - M. SILENCER: HAGER

FINGER GUARD SCHEDULE

DOOR TYPES	LOCATIONS
CLASSROOM ENTRY DOORS	BOTH SIDES
ADJOINING CLASSROOM DOORS	BOTH SIDES
CLASSROOM STORAGE CLOSET DOORS	HINGE OR PULL SIDE/ FACING CLASSROOM
ADMIN OFFICE DOORS ACCESSIBLE FROM MAIN CORRIDORS	BOTH SIDES
ADULT TOILET ROOMS	BOTH SIDES
PANTRY/KITCHEN	BOTH SIDES
BUGGY/ CAR SEAT STORAGE	BOTH SIDES
GENERAL STORAGE ACCESSIBLE FROM MAIN CORRIDORS	CORRIDOR SIDE ONLY
SUPPORT SPACES (LAUNDRY, JANITOR ETC.)	CORRIDOR SIDE ONLY
MAIN ENTRY/EXIT DOORS TO THE CENTER	BOTH SIDES
SECONDARY EXIT DOORS TO THE EXTERIOR AND/OR PLAYGROUNDS	PUSH SIDE ONLY (INTERIOR FACING CLASSROOM)

KEYING SCHEULE

KEY TYPE	OPENS	# OF KEYS
ADMIN MASTER	OPENS ALL DOORS (EVEN DIRECTORS OFFICE)	10
TEACHER MASTER KEY TYPE-A	OPENS ALL CLASSROOM CLOSETS, GENERAL STORAGE, JANITOR, STAFF ROOM, LRC, LAUNDRY TO INCLUDE 6'-0" PG GATE KEYS	50
TYPE-C	OPENS MECH, ELEC, & TELE/DATA ROOMS	5

HARDWARE SCHEDULE

HW-1 CLASSROOMS
3 HINGES
1 PASSAGE LATCH SET
1 STOP
1 SET FINGER GUARDS
3 SILENCERS

HW-2 OFFICES
3 HINGES
1 OFFICE LOCKSET
1 STOP
3 SILENCERS

HW-3 STOR, JAN, LAUNDRY, MECH, ELEC, KITCHEN, LRC, STAFF
3 HINGES
1 STOREROOM LOCKSET
1 CLOSER
1 STOP
1 KICKPLATE-10"
3 SILENCERS

HW-5 CHILDREN TOILET
1 POCKET DOOR TRACK & RUNNER KIT
2 DOOR PULLS
2 WALLS STOPS

HW-6 ADULT TOILET
3 HINGES
1 PRIVACY LOCKSET
1 CLOSER
1 STOP
1 ACOUSTIC GASKET
1 COAT & HAT HOOK

HW-7 PANTRY, ELEC, DOUBLE DOOR
6 HINGES
1 STOREROOM LOCKSET
2 CLOSERS
2 STOPS
6 SILENCERS

HW-8 EXISTING STOREFRONT TO EXTERIOR
HARDWARE BY STOREFRONT MFG
THERMAL DOOR WITH 10" BTM RAIL
1 SELF CLOSING HINGE
1 BARRIER FREE HARDWARE
1 LOCKSET
1 DEADBOLT
1 THRESHOLD
1 BOTTOM SWEEP/SEAL
1 WEATHERSTRIPPING

HW-8A EXISTING STOREFRONT TO EXTERIOR
HARDWARE BY STOREFRONT MFG
THERMAL DOOR WITH 10" BTM RAIL
1 SELF CLOSING HINGE
1 BARRIER FREE HARDWARE
1 LOCKSET
1 DEADBOLT
1 THRESHOLD
1 BOTTOM SWEEP/SEAL
1 WEATHERSTRIPPING
1 ELECTRIC STRIKE

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9049 REGISTERED ARCHITECT
ARTHUR AKIRA FURUKAWA
STATE OF WASHINGTON

City of Kirkland
Reviewed by AHaupt
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PERMIT SET
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Bright Horizons FAMILY SOLUTIONS®

BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

HARDWARE SCHEDULE

SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A6.22

FINISH SCHEDULE						
NUMBER	NAME	FLOOR FINISH	WALL FINISH	BASE FINISH	CEILING MATERIAL	COMMENTS
201	RECEPTION	LVT2	PT	B2	ACT	
202	LRC	CPT1	PT	B1	ACT	
203	DIRECTORS OFFICE	CPT1	PT	B1	ACT	
204	ADMIN OFFICE	CPT1	PT	B1	ACT	
205	CHILD TOILET	SVL1	PT/FRP	B4	ACT	
206	CHILD TOILET	SLV2	PT/FRP	B4	ACT	
207	TODDLER-1 CLASSROOM	VCT*/SLV1	PT	B4	ACT	SLV AT CHG-1, FRP AT SINK
208	TODDLER-2 CLASSROOM	VCT*	PT	B1	ACT	SLV AT CHG-1, FRP AT SINK
210	TODDLER-3 CLASSROOM	VCT*	PT	B1	ACT	SLV AT CHG-1, FRP AT SINK
211	TODDLER-4 CLASSROOM	VCT*	PT	B1	ACT	SLV AT CHG-1, FRP AT SINK
212	CHILD TOILET	SLV1	PT/FRP	B4	ACT	
215	TWOS-1 CLASSROOM	VCT*	PT	B1	ACT	
216	ART ROOM	LVT1	PT	B1	ACT	
217	TWOS-2 CLASSROOM	VCT*	PT	B1	ACT	
218	CAR SEAT STORAGE	VCT1	PT	B1	ACT	
221	TWOS-3 CLASSROOM	VCT*	PT	B1	ACT	
222	INFANT-1 CLASSROOM	VCT*	PT	B1	ACT	
223	TWOS-4 CLASSROM	VCT*	PT	B1	ACT	
223	INFANT-2 CLASSROOM	VCT*	PT	B1	ACT	
224	INFANT-3 CLASSROOM	VCT*	PT	B1	ACT	
226	LAUNDRY/ JANITOR	VCT1	PT	B1	OTS	FRP AT MOP SINK 48" AFF
227	BUGGY STORAGE	VCT1	PT/FRP	B1	OTS	FRP BELOW FAST TRACK SYSTEM
228	TELE/ DATA	VCT1	PT	B1	OTS	
229	ADULT TOILET	SLV1	PT/FRP	B4	ACT	
230	STORAGE	VCT1	PT	B1	OTS	
233	PRESCHOOL-1 CLASSROOM	VCT5	PT	B3	ACT	FRP AT ART SINK
234	CHILD TOILET	SLV1	PT/FRP	B4	ACT	
235	PRESCHOOL-2 CLASSROOM	VCT5	PT	B3	ACT	FRP AT ART SINK
236	MOVEMENT MATTERS	LVT1	PT	B1	ACT	
237	KINDERGARTEN PREP-1	VCT5	PT	B3	ACT	FRP AT ART SINK
238	ELECTRICAL ROOM	VCT1	PT	B1	OTS	
239	ADULT TOILET	SLV2	PT/FRP	B4	ACT	
240	HALL	LVT2	PT	B2	ACT	
241	STAFF LOUNGE	VCT1	PT	B1	ACT	
242	KITCHEN	SLV1	FRP	B4	ACT*	

FINISH SCHEDULE NOTES

1. FOR MATERIAL SCHEDULE SEE DRAWING A6.41
2. SEE DETAIL ON THIS SHEET FOR VCT PATTERN INDICATED BY "VCT*"
3. PROVIDE TRANSITION STRIPS AT ALL DISSIMILAR FLOORING MATERIALS.
4. GWB CEILINGS TO BE PAINTED.

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MATERIAL INFORMATION

PLASTIC LAMINATE/SOLID SURFACE

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
PL1	PLASTIC LAMINATE WILSONART	7909-60 FUSION MAPLE TYPICAL THROUGHOUT U.O.N.
PL2	PLASTIC LAMINATE WILSONART	4663-60 TAWNY LEGACY TYPICAL COUNTERTOP
PL3	PLASTIC LAMINATE WILSONART	79245-07 BILTMORE CHERRY RECEPTION DESK
PL4	PLASTIC LAMINATE WILSONART	7971K-12 UPTOWN WALNUT PRESCHOOL BASE CABINETS
PL5	PLASTIC LAMINATE WILSONART	4844-60 LODEN ZEPHYR PRESCHOOL COUNTERTOP
MEL1	MELAMINE	WHITE
MEL2	MELAMINE	MAPLE TO MATCH PL1
MEL3	MELAMINE	MAPLE TO MATCH PL4
SS1	SOLID SURFACE WILSONART	9024 ML FRENCH BLUE MELANGE 1/2" THICK
SS2	SOLID SURFACE WILSONART	9202-CS SEA STONE 1/2" THICK ONLY IN PRESCHOOL AND OLDER CLASSROOMS

PLASTIC LAMINATE/MILLWORK NOTES
1. PROVIDE AND INSTALL TOT-LOK BY REV-A-SHELF ON ALL LOWER DRAWERS AND CABINETS, NOT DESIGNATED FOR CAM LOCKS, IN ALL CLASSROOMS.

GLASS

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
GL1	MONOLITHIC SAFETY GLASS	CLEAR FULLY TEMPERED FLOAT GLASS THICKNESS 6.0 MM

WINDOW FILM

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
WF	3M CRYSTAL GLASS FINISHES FILM	7725SE-314 DUSTED CRYSTAL 2" DOTS ON DOOR AND LOW WINDOWS AT 24" AFF

FIRE EXTINGUISHERS

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
FEC	FIRE EXTINGUISHER CABINET J.L. INDUSTRIES, SEMI-RECESSED	AMBASSADOR SERIES #1017 W 3" RETURN TRIM SAFETY HANDLE, BAKED ENAMEL WHITE, FULL GLAZED DR.

FIRE EXTINGUISHER NOTES
1. FEC TO CONTAIN (1) ABC MULTI PURPOSE DRY CHEMICAL 10-POUND 40A-60B:C FIRE EXTINGUISHER. COLOR: RED ENAMEL, B.O.D. JL INDUSTRIES COSMIC 10E.

FAST TRACK SYSTEM

MARK	MATERIAL & MANUFACTURER	MODEL NUMBER
FTS	RUBBERMAID FAST TRACK SYSTEM W/ HOSE HOOKS	#5G77 #SE12

FAST TRACK SYSTEM
1. TWO ROWS, ONE AT 40" AND THE OTHER AT 80"

MATERIAL SCHEDULE NOTES

1. SEE FINISH PLAN FOR FLOOR AND WALL FINISHES.
2. SEE FINISH SCHEDULE FOR CEILING FINISHES.
3. WHERE MATERIALS ARE APPLIED ON WALLS, CEILINGS, OR STRUCTURAL ELEMENTS ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING IN COMPLIANCE WITH IBC 803.11.
4. PER 803.1.1 THE FLAME SPREAD FOR CLASS B IS 26-75.

WOOD

MARK	MATERIAL	PATTERN, FINISH & COLOR
WD1	MAPLE INTERIOR CASEWORK	PLAIN SLICED WHITE MAPLE BOOK MATCHED WITH CLEAR FINISH
WD2	BIRCH INTERIOR DOORS	ROTARY-CUT BIRCH FACE BOOK MATCHED WITH CLEAR FINISH

CEILINGS

MARK	MATERIAL	MANUFACTURER, PATTERN & COLOR
ACT	ACOUSTICAL CEILING TILE GENERAL AREAS	ARMSTRONG CORTEGA SECOND LOOK 2 #2758 WHITE 2' X 4'
ACT2	VINYL FACED GWB TILE SERVICE AREA	ARMSTONG CLEAN RM VL WHITE 2' X 4'
GRD1	ACOUSTIC CEILING GRID 15/16" WIDE WITH 3/4" BERC-2 EDGE	ARMSTRONG PRELUDE XL
GRD2	GYPSUM BOARD	COLOR PER FINISH SCHEDULE

TOILET ACCESSORIES

MARK	ITEM	MANUFACTURER, MODEL & FINISH
TPH1	TOILET PAPER HOLDER SURFACE MTD, SINGLE ROLL	BOBRICK B-685
TPH2	TOILET PAPER HOLDER RECESSED, SINGLE ROLL	BOBRICK B-6677
PTD1	PAPER TOWEL DISPENSER AT FOOD PREP AND CHANGING AREAS	HT BERRY TORK 552120A SEE NOTE-1 BELOW FOR CONTACT INFO
PTD2	PAPER TOWEL DISPENSER AT TOILETS AND ART SINKS	HT BERRY TORK 551020A SEE NOTE-1 BELOW FOR CONTACT INFO
SD1	SOAP DISPENSERS AT ALL SINKS	HT BERRY SP9756, SEE NOTE-1 BELOW FOR CONTACT INFO
GB1A	GRAB BAR, REAR BAR	B.O.D. BOBRICK 5806 1-1/4" DIA, 36" REAR BAR
GB1B	GRAB BAR, SIDE BAR	B.O.D. BOBRICK 5806 1-1/4" DIA, 42" LONG
GB1C	GRAB BAR, VERTICAL BAR	B.O.D. BOBRICK 5806 1-1/4" DIA, 18" LONG
MI1	TILT MIRROR ADULT BATHROOM	AMERICAN SPECIALTIES 0535-1836-L
MI2	TILT MIRROR CHILD BATHROOM	AMERICAN SPECIALTIES 0535-1824-L
MI3	TILT MIRROR TODDLERS-TWOS	AMERICAN SPECIALTIES 0620-L-18X24
MI4	ART SINK MIRROR PRESCHOOL	AMERICAN SPECIALTIES 0620-L-24X36
TPRT	24" X 24" TOILET PARTITION 10" AFF	B.O.D. AMPCO COLOR: DEEP SEA BLUE 947-139
CH1	COAT HOOK	B.O.D. ORGANIZE IT BRUSCHIA WALL MOUNT COAT RACK
FD	FLOOR DRAIN	ZURN Z-415

TOILET ACCESSORY NOTES
1. HT BERRY CONTACT: JANE BUSCONI 781-828-6000 EXT 212, JANBERRY@HTBERRY.COM
2. GC TO ORDER AND INSTALL ALL TOILET ACCESSORIES

BASE

MARK	MATERIAL	MANUFACTURER & COLOR
B1	VINYL COVE BASE 4" HIGH	ARMSTRONG 94 MIDNIGHT BLUE
B1S	VINYL STRAIGHT BASE 4" HIGH	ARMSTRONG 94 MIDNIGHT BLUE
B2	VINYL COVE BASE 4" HIGH	ARMSTRONG 01 MALT
B2S	VINYL STRAIGHT BASE 4" HIGH	ARMSTRONG 01 MALT
B3	VINYL COVE BASE 4" HIGH	ARMSTRONG 12 SHADOW GRAY
B4	SHEET VINYL INTEGRAL COVE BASE 6" HIGH	TO MATCH FLOOR SHEET VINYL

BASE NOTES
1. COVED BASE TO BE USED AT VCT WHILE STRAIGHT BASE TO BE USED AT CARPET

PAINT

MARK	MATERIAL & MANUFACTURER	FINISH & COLOR
PT1	PAINT B.O.D. BENJAMIN MOORE	184 IVORY LUSTRE GENERAL USE
PT2	PAINT	NOT USED
PT3	PAINT B.O.D. BENJAMIN MOORE	830 HARLEQUIN BLUE ACCENT COLOR
PT4	PAINT B.O.D. BENJAMIN MOORE	1124 SADDLE TAN DOOR FRAMES
PT5	PAINT B.O.D. BENJAMIN MOORE	298 BROADWAY LIGHTS ACCENT COLOR
PT6	PAINT B.O.D. BENJAMIN MOORE	529 SWEET DAPHNE ACCENT COLOR
PT7	PAINT B.O.D. BENJAMIN MOORE	869 OXFORD WHITE CEILINGS
PT8	PAINT B.O.D. BENJAMIN MOORE	HC-112 TATE OLIVE ACCENT COLOR
PT9	PAINT AFFINITY BENJAMIN MOORE	AF-415 GRASS HOPPER ACCENT COLOR

PAINT FINISH NOTES
1. TYPICAL WALL FINISH TO BE EGGSHELL FINISH U.O.N.
2. PAINTED GWB CEILINGS TO BE FLAT FINISH.
3. DOOR FRAMES, RELITE FRAMES AND CHAIR RAILS TO BE SEMI-GLOSS FINISH.
4. TOILET ROOMS, JANITOR AND LAUNDRY RM WALLS TO BE SEMI-GLOSS FINISH.
5. PAINTING CONTRACTOR TO FILL AND TOUCH UP ALL NAIL HOLES IN THE WOOD TRIM.
6. ALL PAINTED SURFACES TO RECEIVE THREE COATS. (1) COAT PRIMER AND (2) FINISH COATS. PAINTED SURFACE TO BE SMOOTH ROLLED OR BRUSHED WITH NO SKIPS, LAPS, OR STREAKS.
7. ALL SURFACES TO BE PRIMED PER MANUFACTURER'S RECOMMENDATIONS SUITABLE AND COMPATIBLE WITH SURFACE AND FINISH SPECIFIED.
8. PAINT COLOR TO BE PT1 U.O.N.
9. CONTRACTOR TO USE BENJAMIN MOORE COLOR WITH SHERWIN WILLIAMS PRO INDUSTRIAL ZERO VOC ACRYLIC COATING, DEEP BASE-SEMI GLOSS.

WALL PROTECTION

MARK	MATERIAL	MANUFACTURER, PATTERN & COLOR
FRP1	FRP PANELS (48" x 96") BATHROOMS, KITCHEN, BUGGY AND STROLLER STORAGE	MARLITE, STANDARD 3/32" THK ALMOND S118G, SMOOTH SURFACE
CG	CORNER GUARD 1-1/2" x 1-1/2" x 36" HIGH	KOROGUARD G815 COLOR: PARISIAN CREAM
MM	MULLION MATE INT WALL AT EXT WINDOW	GORDAN INTERIOR SPECIALIST 5023 HAZEL JONES ROAD BOSSIER CITY, LA 71111

WALL PROTECTION NOTES
1. FOR FRP TRIM MOLDINGS AT SEAMS AND CORNERS TO MATCH FRP COLOR.
2. CORNER GUARDS TO BE MOUNTED IMMEDIATELY ABOVE BASE.

VCT

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
VCT*	PATTERN OF VCTS- 1, 2, 3, & 4 DESCRIBED BELOW	
VCT1	ARMSTRONG IMPERIAL STD EXCELON TEXTURE	51800 BUTTERCREAM YELLOW FIELD COLOR
VCT2	ARMSTRONG IMPERIAL STD EXCELON TEXTURE	51882 SERENE BLUE ACCENT COLOR
VCT3	ARMSTRONG IMPERIAL STD EXCELON TEXTURE	51946 GENTIAN BLUE ACCENT COLOR
VCT4	ARMSTRONG IMPERIAL STD EXCELON TEXTURE	51866 LITTLE GREEN APPLE ACCENT COLOR
VCT5	ARMSTRONG IMPERIAL STD EXCELON TEXTURE	55800 SNOWDRIFT 12"X24" PRESCHOOL CLASSROOMS

VCT NOTES
1. PATTERN IN ALL CLASSROOM TO BE 12"X12" FIELD TILES (VCT 1) @ 85% W/ 15% ACCENT FLOOR TILES RANDOMLY SPACED (VCT2, VCT3, VCT4). SEE DETAIL ON FINISH PLAN.
2. PROVIDE (5) COATS OF WAX WITH APPROPRIATE MANUFACTURER RECOMMENDED CURING TIME BETWEEN EACH COAT.

SHEET VINYL

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
SVL1	SHEET VINYL ARMSTRONG	MEDINTONE H5362 REFRESH GREEN MID JONSONITE CAP SCC-34-A
SVL2	SHEET VINYL ARMSTRONG	MEDINTONE H5351 INDIGO JONSONITE CAP SCC-34-A
LVT1	LUXURY VINYL PATCRAFT VINYL 6" X 48" PLANK- 20 ML	STYLE 1800V HIGHLAND FOREST COLOR 20200 NATURAL MAPLE
LVT2	LUXURY VINYL PATCRAFT VINYL 6" X 48" PLANK- 20 ML	STYLE 1800V HIGHLAND FOREST COLOR 20210 CHERRY BLONDE

SHEET VINYL NOTES
1. HEAT WELD SEAMS, BEAD COLOR TO MATCH FLOOR COLOR.
2. FOR PATCRAFT PRODUCTS CALL CRAIG POLLEYS 781-389-2853

CARPET

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
CT1	CARPET TILE PATCRAFT	10290-THOUGHT MODULAR, 00425-SOLUTION MONOLITHIC INSTALLATION

CARPET NOTES
1. CALL CRAIG POLLEYS 781-389-2853

FLOOR MATS

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
MAT1	FLOOR MAT. MODULAR TILE MATS INC.	DECORIB (RUBBER BACKED) COLOR: CHARCOAL

FLOOR MAT NOTES
1. ALL MATS TO BE GLUED DOWN AND TO BE CUT AND INSTALLED FLUSH WITH VCT FLOOR. OVERALL THICKNESS = 5/32". PROVIDE RUBBER TRANSITION STRIPS WHERE MATS MEET VCT, TYPICAL

FLOOR TRANSITION STRIPS

MARK	MATERIAL & MANUFACTURER	PATTERN & COLOR
FTS1	FLOOR TRANSITION STRIP	CARPET TO RESILIENT FLOORING JOHNSONITE CTA-18-D
FTS2	FLOOR TRANSITION STRIP	CARPET TO EXISTING FLOORING JOHNSONITE CTA-18-J

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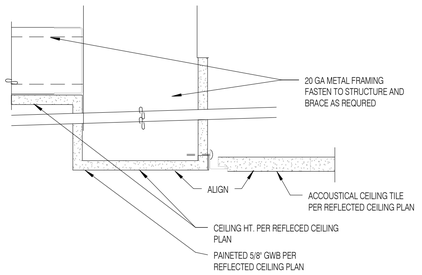
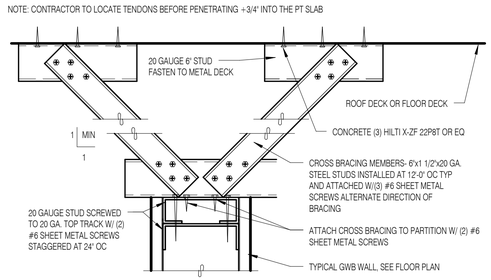


13 CEILING HT. TRANSITION TYPICAL

SCALE: 3" = 1'-0"

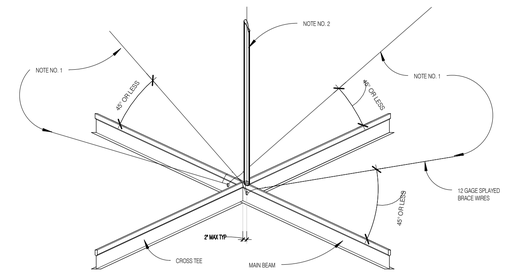


1 WALL BRACE AT CONCRETE DECK

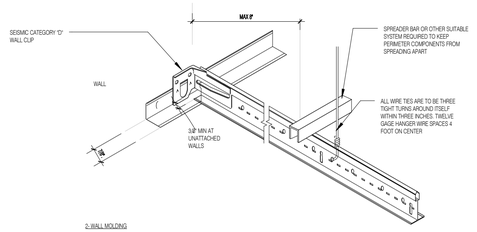
SCALE: 3" = 1'-0"

NOTES:

1. LATERAL FORCE BRACING: LATERAL FORCE BRACING SHALL BE 12'-0" O.C. (MAXIMUM) AND BEGIN NO FARTHER THAN 6'-0" FROM WALLS. WIRES SHOULD BE TAUT WITHOUT CAUSING CEILING TO LIFT. SPLAY WIRES ARE TO BE (4) 12 GAGE WIRES ATTACHED TO THE MAIN BEAM. WIRES ARE ARRAYED 90° FROM EACH OTHER AND AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING. SPLAY WIRES ARE TO BE WITHIN 2" OF THE CONNECTION TO THE VERTICAL STRUCT TO SUSPENDED CEILING.
2. VERTICAL STRUTS MUST BE POSITIVELY ATTACHED TO THE SUSPENSION SYSTEMS AND THE STRUCTURE ABOVE. THE VERTICAL STRUT MAY BE, METAL STUDS.
3. WALL MOLDINGS (PERIMETER CLOSURE ANGELS) ARE REQUIRED TO HAVE A HORIZONTAL FLANGE 2" WIDE, UNLESS ALTERNATE METHODS ARE APPROVED PRIOR TO INSTALLATION BY THE LOCAL BUILDING DEPT. AND THE DESIGNER OF RECORD. ONE END OF THE CEILING GRID SHALL BE ATTACHED TO THE WALL MOLDING, THE OTHER END SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND FREE TO SLIDE. THE GRID SHALL BE ATTACHED AT TWO ADJACENT WALLS (POP RIVETS OR APPROVED METHOD) THERE SHALL BE A MINIMUM 3/4" CLEARANCE FROM THE END OF THE GRID SYSTEM AT UN-ATTACHED WALLS.
4. SPREADER (SPACER) BARS OR OTHER MEANS APPROVED BY LOCAL BUILDING DEPT. SHALL BE USED TO PREVENT THE ENDS OF THE MAIN BEAMS AT PERIMETER WALLS FROM SPREADING OPEN DURING A SEISMIC EVENT. PERIMETER WIRES SHALL NOT BE IN LIEU OF SPREADER BARS. WIRE TYING IS AN ACCEPTABLE ALTERNATIVE TO SPREADER BARS. SPREADER BARS ARE NOT REQUIRED IF A 90° INTERSECTING CROSS OR MAIN IS WITHIN 8" OF THE PERIMETER WALL.
5. HANGER (SUSPENSION) AND PERIMETER WIRES MUST BE PLUMB WITHIN 1 IN 6 UNLESS COUNTER SLOPING WIRES ARE PROVIDED. HANGER WIRES SHALL BE 12 GAGE AND SPACED 4 FEET ON CENTER OR 10 GAGE SPACED 5 FEET ON CENTER. ANY CONNECTION DEVICE AT THE SUPPORTING CONSTRUCTION SHALL BE CAPABLE OF CARRYING NOT LESS THAN 100 LBS.
6. BRACE LIGHT FIXTURE AS PER IBC STANDARDS



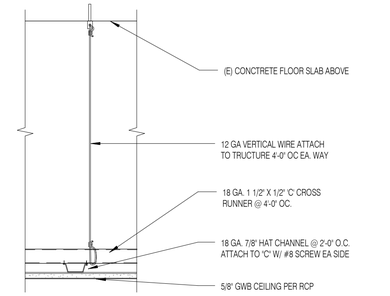
1 - LATERAL FORCE BRACING AND SPLAY LINE



2- WALL MOLDING

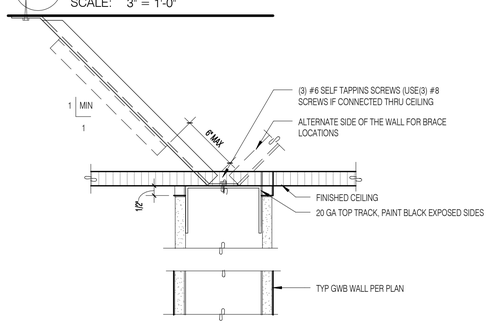
6 SEISMIC BRACING AT CEILING GRID

SCALE: 3" = 1'-0"



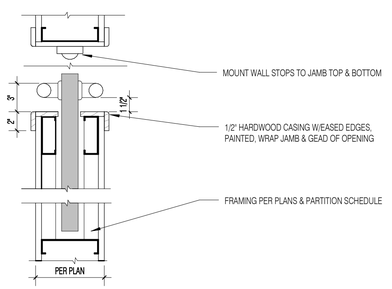
14 GYPSUM CEILING

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



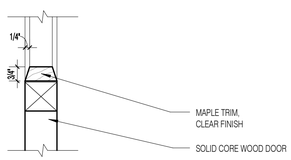
10 WALL HEAD BELOW GRID

SCALE: 3" = 1'-0"



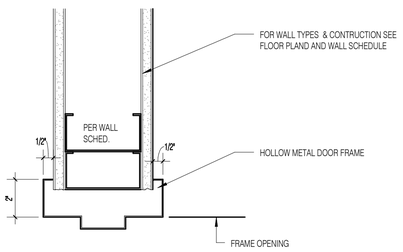
15 POCKET DOOR JAMB

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



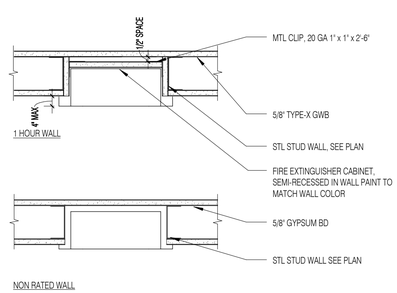
11 TYP OPEN "LITE" IN DOOR

SCALE: 3" = 1'-0"



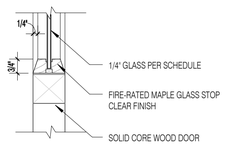
7 TYP HM DOOR JAMB

SCALE: 3" = 1'-0"



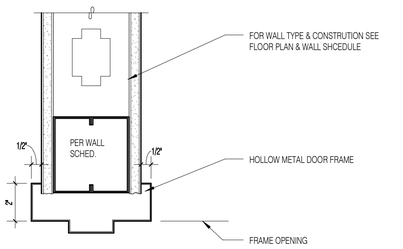
2 FIRE EXTINGUISHER CABINET PLAN DETAIL

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



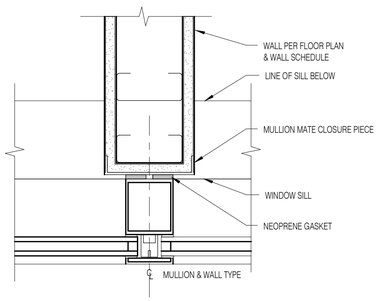
12 TYP DOOR LIGHT WITH GLASS

SCALE: 3" = 1'-0"



8 TYP HM DOOR HEAD

SCALE: 3" = 1'-0"



4 PARTITION AT WINDOW MULLION (PLAN)

SCALE: 3" = 1'-0"

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9049 REGISTERED ARCHITECT
ARTHUR AKIRA FURUKAWA
STATE OF WASHINGTON

City of Kirkland
Reviewed by AHaupt
06/21/2018

PERMIT SET
18 JANUARY 2018

PERMIT SET 18 JAN 2018
DESIGN DEV. 26 OCT 2017

Bright Horizons
FAMILY SOLUTIONS®

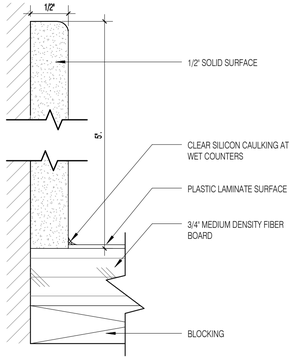
BH KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

DETAILS

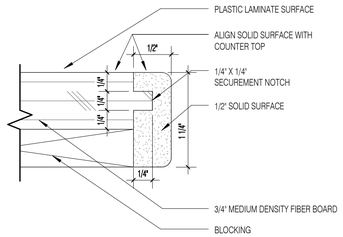
SCALE:	AS NOTED
DRAWN:	MAD
CHECKED:	AAF
PROJECT NO:	15020.03

A9.01



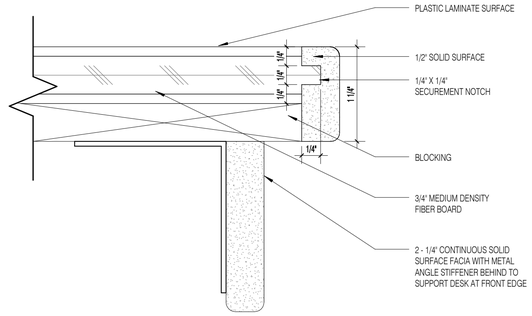
7 CHANGING STATION BACK SPLASH DETAILS

SCALE: 12" = 1'-0"



4 SOLID SURFACE EDGE DETAIL @ WORK COUNTER

SCALE: 12" = 1'-0"



1 EDGE DETAIL@ TWS

SCALE: 12" = 1'-0"

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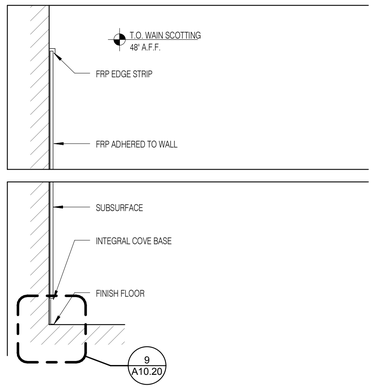
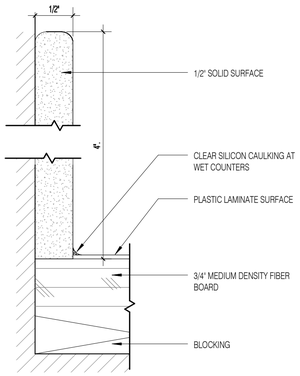


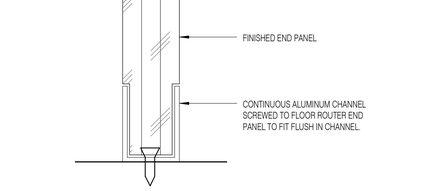
8 FRP DETAIL

SCALE: 12" = 1'-0"



5 BACK SPLASH DETAILS 2 SOLID SURFACE

SCALE: 12" = 1'-0"



2 END PANEL FLOOR CONNECTION @ TWS

SCALE: 12" = 1'-0"

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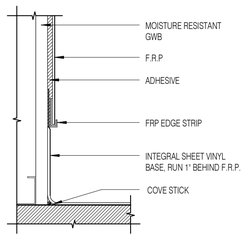
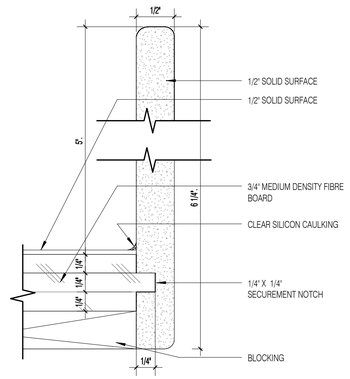


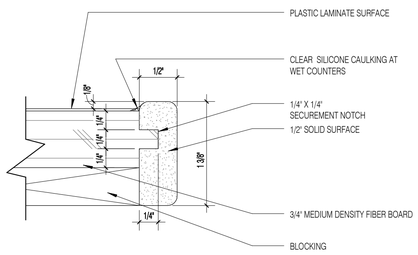
9 INTERGRAL COVE BASE

SCALE: 12" = 1'-0"



6 CHANGING STATION BACK SPLASH DETAILS

SCALE: 12" = 1'-0"



3 SOLID SURFACE EDGE DETAIL @ WET COUNTERS

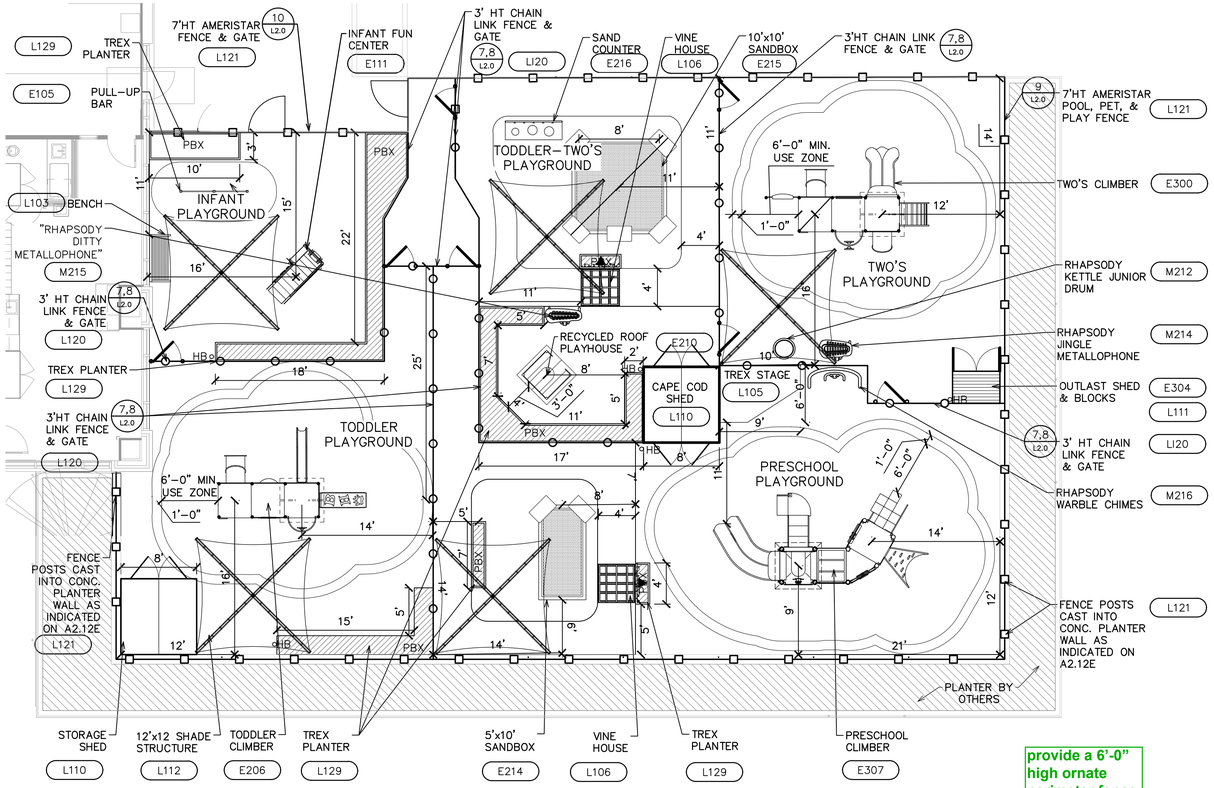
SCALE: 12" = 1'-0"

CASEWORK DETAILS

SCALE: AS NOTED
DRAWN: MAD
CHECKED: AAF
PROJECT NO: 15020.03

A10.20

BNR18-00430



LEGEND

PBX	PLANTER BOX	12 L2.0
HB	HOSE BIB	
	CHAIN LINK FENCE	7,8 L2.0
	AMERISTAR FENCE	9,10 L2.0
	PLANTER	12 L2.0
	TREE PLANTER BY OTHERS	

PLAYGROUND SUMMARY

INFANT PLAY AREA = 616 SF
8 CHILDREN = 600 SF REQUIRED

TODDLER PLAY AREA = 972 SF
12 CHILDREN = 900 SF REQUIRED

TWO'S PLAY AREA = 954 SF
12 CHILDREN = 900 SF REQUIRED

TODDLER/TWO'S PLAY AREA = 943 SF
12 CHILDREN = 900 SF REQUIRED

PRESCHOOL PLAY AREA = 1614 SF
20 CHILDREN = 1500 SF REQUIRED

TOTAL AREA = 5099 SF

provide a 6'-0" high ornate perimeter fence and keep the 3'-0" high interior fence as powder coated chain link

LAYOUT & MATERIALS NOTES

1. PLAYGROUND EQUIPMENT SHALL COMPLY WITH THE FOLLOWING STANDARDS:
   - LATEST EDITION OF THE US CONSUMER PRODUCT SAFETY COMMISSION PUBLIC PLAYGROUND SAFETY HANDBOOK, PUBLICATION 325.
   - AMERICAN SOCIETY FOR TESTING MATERIALS, LATEST EDITION F1487 AND F2373– STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE.
   - ASTM F 1951 –LATEST EDITION STANDARD SPECIFICATION FOR DETERMINATION OF ACCESSIBILITY OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
   - AMERICAN SOCIETY FOR TESTING MATERIALS, F 1292 – LATEST EDITION STANDARDSPECIFICATION FOR IMPACT ATTENUATION OF SURFACE SYSTEMS UNDER AND AROUND PLAYGROUND EQUIPMENT.
   - AMERICANS WITH DISABILITIES ACT (ADA).
2. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. INSTALL MATERIALS, PLAYGROUND EQUIPMENT AND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS. INSTALL MATERIALS AND SYSTEMS IN PROPER RELATION WITH ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE. COORDINATE WITH WORK OF OTHER SECTIONS.
4. ALL POSTS SHALL BE INSTALLED VERTICALLY PLUMB, AND ALL HORIZONTAL SURFACES SHALL BE INSTALLED LEVEL, UNLESS OTHERWISE NOTED.
5. ALL SUPPORT POSTS SHALL BE FOOTED AS PER THE MANUFACTURER'S INSTRUCTIONS OR AS SPECIFIED ON THE DRAWINGS. THERE SHALL BE NO EXPOSED TOP OF CONCRETE FOOTINGS. ALL TOPS OF FOOTINGS SHALL BE EARTH OR SAFETY SURFACING. SEE PLAYGROUND DETAILS FOR FOOTING SCHEDULE.
6. ALL SAND BOXES SHALL BE FILLED WITH CLEAN, FILTERED SAND TO 2" TO THE TOP OF SAND BOXES.
7. ALL PLAY EQUIPMENT SHALL MAINTAIN THEIR CLEAR USE ZONES AS SHOWN ON THE DRAWINGS. IF THERE IS ANY CONDITION WHERE THE CLEAR USE ZONE IS OBSTRUCTED DUE TO INCORRECT LAYOUT,THE CONTRACTOR SHALL RECTIFY THE CONDITION TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL CLEAN OFF ALL SURFACES OF THE PLAY EQUIPMENT AND SITE AMENITIES FROM DIRT, CONCRETE, DEBRIS OR LABELS.
9. PROVIDE A HOSE BIB IN PLAY AREA
10. SEE SURFACING PLAN FOR SURFACING INFORMATION.
11. SEE PLANTING PLAN FOR PLANTING INFORMATION.
12. ALL PLANTER BOXES TO RECEIVE DRIP IRRIGATION – DESIGN/BUILD.

EQUIPMENT LEGEND

TAG	NAME	MANUFACTURER	MODEL	NOTES	DETAIL
E105	"PULL-UP BAR"	LANDSCAPE STRUCTURES	E105	PURCHASE THROUGH BH	2 L2.1
E111	"INFANT FUN CENTER"	PLAYWORLD SYSTEMS, WWW.PLAYWORLDSYSTEMS.COM	ZZPD5051	PURCHASE THROUGH BH; 12'–6" X 9'–3"	1 L2.1
E206	"TODDLER CLIMBER SMALL"	LANDSCAPE STRUCTURES	E206	PURCHASE THROUGH BH; 30" FALL HT.; IN WARM CLIMATES ONLY, USE SOUTHERN STATES COLORS, WITH THE TAN SLIDES, SKID MOUNT	3 L2.1
E210	"ALTERNATE RECYCLED ROOF PLAYHOUSE"	LANDSCAPE STRUCTURES	E210	PURCHASE THROUGH BH; RECYCLED ROOF; GREEN POSTS, SKID MOUNT	6 L2.1
E214	"SEATED SAND BOX"	SANDLOCK, 866–963–9422	CSG–60120	5'X10'; WITH COVER	7 L2.1
E215	"SEATED SAND BOX"	SANDLOCK, 866–963–9422	CSG–120120	10'X10'; WITH COVER	7 L2.1
E216	"SAND COUNTER"	CONTRACTOR CONSTRUCTED	–	TODDLERS AT 18" HT; TWO'S AT 20"; PRESCHOOL AT 24" HT; BOWLS: 9"D S.S. AMERICAN METALCRAFT SSB300; FOODSERVICEWEARHOUSE.COM; TREX COLOR: SADDLE	13,14,15 L2.0; 9 L2.1
E300	"TWO'S CLIMBER SMALL"	LANDSCAPE STRUCTURES	E300	PURCHASE THROUGH BH; 30" FALL HT.; IN WARM CLIMATES ONLY, USE SOUTHERN STATES COLORS, WITH THE TAN SLIDES, SKID MOUNT	11 L2.1
E304	"OUTLAST BLOCK SET"	COMMUNITY PLAYTHINGS, 800–777–4244	W335	68–BLOCK WOOD SET. SMALLER SETS AVAILABLE	13 L2.1
E307	"PRESCHOOL CLIMBER LARGE"	LANDSCAPE STRUCTURES	E307	PURCHASED THROUGH BH; 48" FALL HT., IN WARM CLIMATES ONLY, USE SOUTHERN STATES COLORS, WITH THE TAN SLIDES, SKID MOUNT	14 L2.1
L103	"BENCH"	VIFAH, WWW.LOWES.COM	V275	5' LONG	
L105	"TREX DECK/STAGE"	CONTRACTOR–CONSTRUCTED	–	SIZE VARIES, SEE PLAN; TREX COLOR: BEACH DUNE	11 L2.0
L106	"VINE HOUSE"	PLAY MART; DOUG KNOTTS, 617–244–3317	PE–XNPP–VIN–04A	48"L X 48"W X 48"H; COLOR: TAN	10 L2.1
L110	"CAPE COD SHED"	LANCASTER COUNTRY BARNS, 717–556–0394	T1–11	8'x8' OR SIZE AS INDICATED ON DRAWINGS, CLASSIC CAPE SHED. 6' DOUBLE BOARD AND BATTEN DOORS ON EACH END, FLOOR, RAMP, (6) 12" WIDE SHELVES, STANDARD BOARD AND BATTEN SIDING, SOLID COLOR STAINED, 25–YEAR ASPHALT SHINGLES, 1 STANDARD 4–LITE STATIONARY WINDOW.	12 L2.1
L111	"OUTLAST SHED"	COMMUNITY PLAYTHINGS, 800–777–4244	W301	INSTALL WITH CONCRETE PAD UNDER SHED	13 L2.1
L112	"SINGLE POST SHADE STRUCTURE"	LANDSCAPE STRUCTURES	L112	SEE PLAN FOR SIZE; PURCHASE THROUGH BH; ENTRY HEIGHT 7'–6". FABRIC COLOR: RAIN FOREST, POST: TAN, SURFACE MOUNT	16 L2.1
L120	"VINYL–COATED CHAIN LINK FENCING & GATE"	CONTRACTOR–INSTALLED	–	SEE PLAN FOR HEIGHTS; POST SPACING: 8'–0" MAX; LINE POST: 2 3/8" OD; TOP/BOTTOM RAIL: 1 5/8" OD; 9 GAUGE WIRE; MESH SIZE: 1–1/4"; BOTTOM SPACE: 3" MAX; AT 3FT HT GATES: MAGNA–LATCH BY D & D TECHNOLOGIES, MLTPS2BGA, 3/8" – 1 1/16" GATE GAP.	7,8 L2.0
L121	"MONTAGE POOL, PET & PLAY METAL FENCE & GATE"	AMERISTAR FENCE, AMERISTARFENCE.COM	MAJESTIC STYLE	COLOR: BLACK; SEE PLAN FOR HEIGHTS, FENCE: RESIDENTIAL FENCE: 2" POST 3/8" X 18GA. PICKET. 3" PICKET SPACING; WITH FLUSH TOP AND BOTTOM RAIL; GATE & GATE POST: MONTAGE PLUS – 3" X 12GA, GATE HARDWARE: ALARMED RIM EXIT DEVICE BY DETEX, V40XEBXWXBK, WEATHERIZED, ELECTRIFIED W/9V BATTERY, BLACK; BN LEVER TRIM, FUNCTION 09, WITH BLOCKING PANEL	9,10 L2.0
L122	"MAGNA LATCH"	D & D TECHNOLOGIES, 714–677–1300	MLTPS2BGA	3/8" – 1 1/16" GATE GAP	
L129	"TREX PLANTER"	CONTRACTOR CONSTRUCTED		COLOR: BEACH DUNE	12 L2.0
M212	"RHAPSODY KETTLE JUNIOR DRUM"	LANDSCAPE STRUCTURES	228217	PURCHASE THROUGH BH; HTS: TWO'S 22", PRESCHOOL 24"; COLOR: LEAF, ACCENT COLOR: LIMON, POST: TAN, SKID MOUNT	5 L2.1
M214	"RHAPSODY JINGLE METALLOPHONE"	LANDSCAPE STRUCTURES	228213	PURCHASE THROUGH BH; HTS: TWO'S 22", PRESCHOOL 24"; COLOR: LEAF, ACCENT COLOR: LIMON, POST: TAN, SKID MOUNT	8 L2.1
M215	"RHAPSODY DITTY METALLOPHONE"	LANDSCAPE STRUCTURES	228212	PURCHASE THROUGH BH; HTS: TWO'S 22", PRESCHOOL 24"; COLOR: LEAF, ACCENT COLOR: LIMON, POST: TAN, SKID MOUNT	4 L2.1
M216	"RHAPSODY WARBLE CHIMES"	LANDSCAPE STRUCTURES	228214	PURCHASE THROUGH BH; HTS: TWO'S 22", PRESCHOOL 24"; COLOR: LEAF, ACCENT COLOR: LIMON, POST: TAN, SKID MOUNT	15 L2.1

0 4' 8' 16'
Scale: 1/8"=1'-0"
(22"x34" Sheet)

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City of Kirkland
Reviewed by Allaupt
06/21/2018

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Seattle, WA 98117
tel: 206.783.2870
fax: 206.783.3212

STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
JOHN FORREST BARKER
CERTIFICATE NO. 486

PERMIT SET 18, JAN 2018

Bright Horizons FAMILY SOLUTIONS®

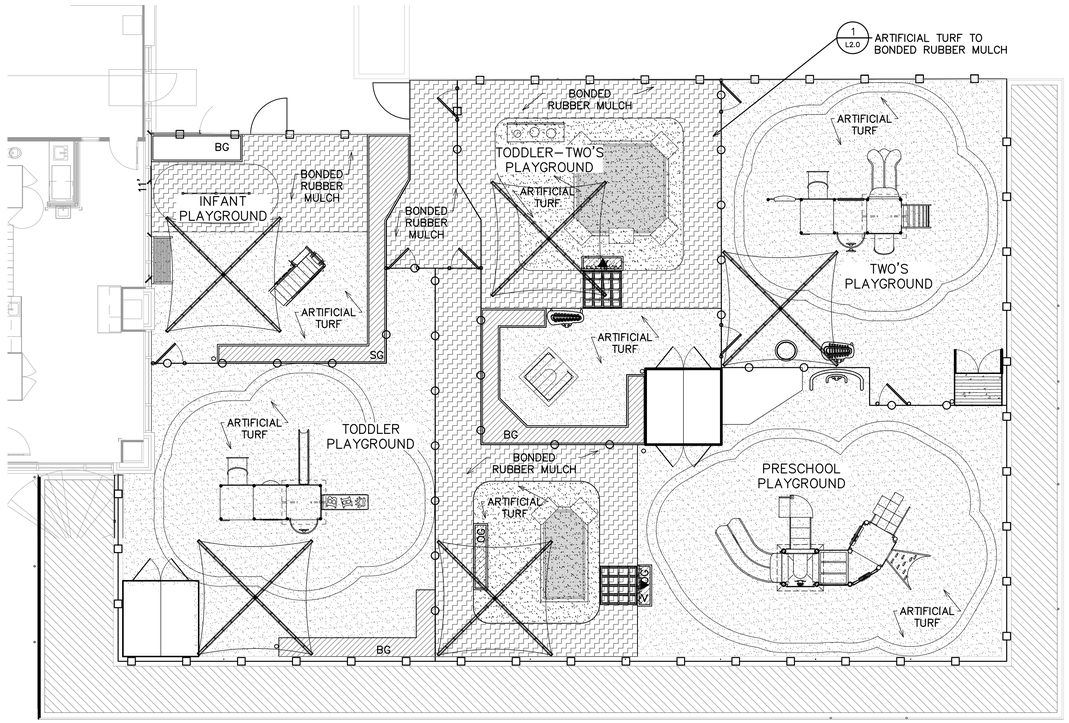
KIRKLAND URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

PLAYGROUND LAYOUT & MATERIALS PLAN

~~SCALE:~~	AS NOTED
DRAWN:	PC / RC
CHECKED:	NM
PROJECT NO:	15020.03

L1.0



SURFACING NOTES

1. SUBMIT FOR ALL PLAYGROUND RUBBER SURFACING PRODUCTS: PRODUCT LITERATURE, MATERIAL SPECIFICATIONS, TESTING RESULTS AND COLOR SELECTION.
2. PLAYGROUND SURFACING SHALL COMPLY WITH THE FOLLOWING STANDARDS:
   - LATEST EDITION OF THE US CONSUMER PRODUCT SAFETY COMMISSION PUBLIC PLAYGROUND SAFETY HANDBOOK, PUBLICATION 325.
   - AMERICAN SOCIETY FOR TESTING MATERIALS, LATEST EDITION F1487 AND F2373– STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR PLAYGROUND EQUIPMENT FOR PUBLIC USE.
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   - AMERICANS WITH DISABILITIES ACT (ADA).
3. SAFETY SURFACING THICKNESSES SHALL COMPLY WITH ASTM AND CPSC STANDARDS AND GUIDELINES LISTED HEREIN FOR IMPACT ATTENUATION FOR DESIGNATED FALL HEIGHTS.
4. THE SURFACING INSTALLER SHALL HAVE PROVEN TO HAVE A MINIMUM OF FIVE YEARS EXPERIENCE WITH INSTALLING PLAYGROUND SURFACING.
5. ARTIFICIAL TURF SHALL BE XGRASS SUPERLAWN EXTREME. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS. INSTALL WITH 'ENVIROFIL' INFILL, 2LBS PER SQUARE FOOT. THERE SHALL NOT BE ANY INFILL VISIBLE ON THE SURFACE.
6. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7. INSTALL SURFACING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPROVED SUBMITTALS.
8. SURFACE OF POURED RUBBER SHALL BE SMOOTH.
9. COORDINATE WITH WORK OF OTHER SECTIONS.

LEGEND

- BONDED RUBBER MULCH — 3 / L2.0
- ARTIFICIAL TURF "SUPER LAWN EXTREME" W/ ENVIROFILL INFILL BY XGRASS, WILL LAMBERT, 863.781.0136 — 1 / L2.0
- CONCRETE PAVING — 4 / L2.0
- TREX PLANTER BOX — 12 / L2.0
- TREE PLANTER BY OTHERS

PLAYGROUND SUMMARY

INFANT PLAY AREA = 616 SF
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TODDLER/TWO'S PLAY AREA = 943 SF
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20 CHILDREN = 1500 SF REQUIRED

TOTAL AREA = 5099 SF

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425 URBAN PLAZA
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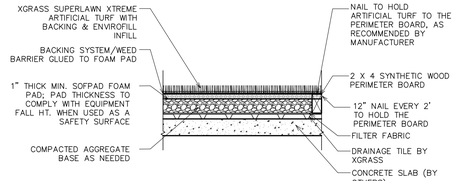
PLAYGROUND SURFACING PLAN

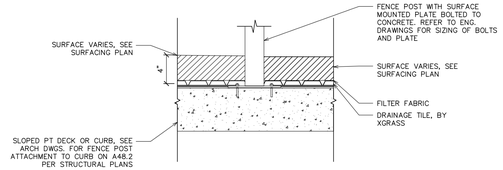
SCALE:	AS NOTED
DRAWN:	PC / RC
CHECKED:	NM
PROJECT NO:	15020.03

L1.1

BNR18-00430
Page 28 of 52



1 ARTIFICIAL TURF SAFETY SURFACING
3/4"=1'-0"



2 SURFACE MOUNT DETAIL
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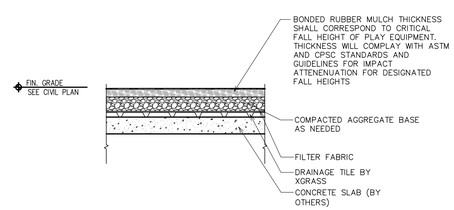
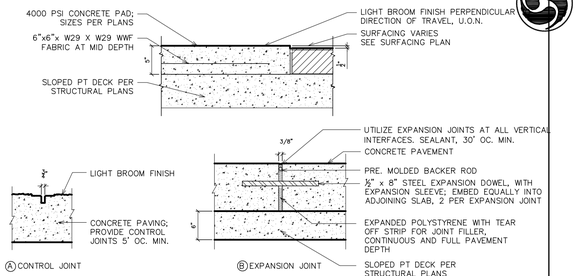
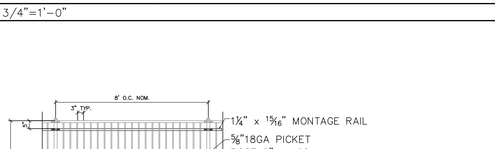


3 BONDED RUBBER MULCH
3/4"=1'-0"

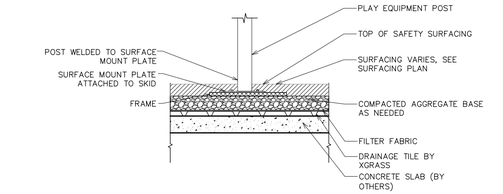


NOTES:
1. PROVIDE CLEARLY TOOLED BORDER ALL AROUND JOINTS.
2. FOR RUMBLE STRIP, PROVIDE PARALLEL SCORE JOINTS EVERY 2' OC.

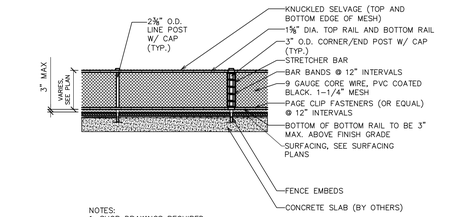
4 CONCRETE PAVING
--



5 ARTIFICIAL TURF TO BONDED RUBBER MULCH
3/4"=1'-0"

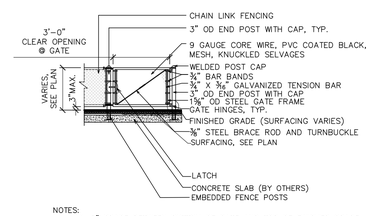


6 SKID MOUNT
3/4"=1'-0"



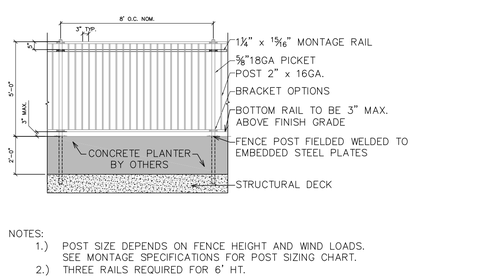
NOTES:
1. SHOP DRAWINGS REQUIRED.
2. ALL MESH AND CLIPS/TIES TO BE COVERED WITH BLACK FUSED AND BONDED PVC. ALL OTHER MEMBERS TO BE BLACK PERMA-COAT COLOR GALVANIZED (SEE SPECS).
3. ALL RAIL TO RAIL CONNECTIONS TO OCCUR AT POSTS.

7 CHAIN LINK FENCE
3/16"=1'-0"



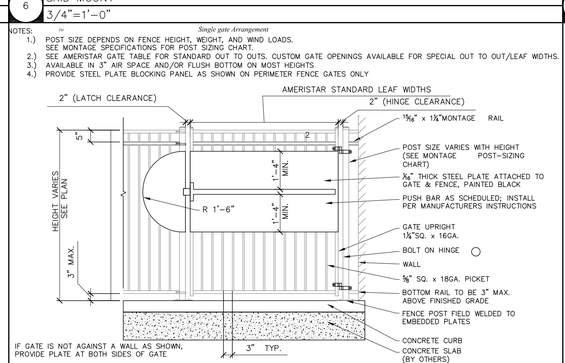
NOTES:
1. MAX. 3" SPACE BETWEEN BOTTOM OF GATE AND TOP OF FINISHED GRADE.
2. AT DOUBLE GATES, PROVIDE 1-1/2" DIA. STEEL CANE BOLT, CANE BOLT CATCH ON GATE FRAME AND PIPE SLEEVE SET IN SURFACE.

8 CHAIN LINK GATE
3/16"=1'-0"



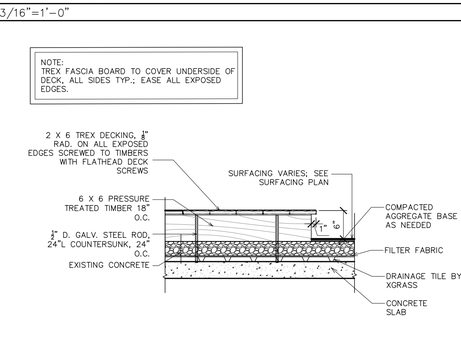
NOTES:
1.) POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE SPECIFICATIONS FOR POST SIZING CHART.
2.) THREE RAILS REQUIRED FOR 6' HT.

9 AMERISTAR POOL, PET & PLAY FENCE
1/4"=1'-0"

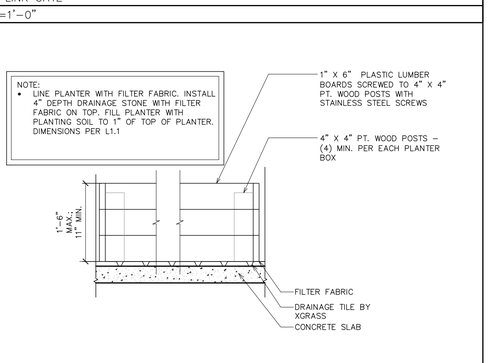


NOTES:
1.) POST SIZE DEPENDS ON FENCE HEIGHT, WEIGHT, AND WIND LOADS. SEE MONTAGE SPECIFICATIONS FOR POST SIZING CHART.
2.) SEE AMERISTAR GATE TABLE FOR STANDARD OUT TO OUTS. CUSTOM GATE OPENINGS AVAILABLE FOR SPECIAL OUT TO OUT/LEAF WIDTHS.
3.) AVAILABLE IN 3" AIR SPACE AND/OR FLUSH BOTTOM ON MOST HEIGHTS
4.) PROVIDE STEEL PLATE BLOCKING PANEL AS SHOWN ON PERIMETER FENCE GATES ONLY

10 AMERISTAR POOL, PET & PLAY GATE
3/8"=1'-0"

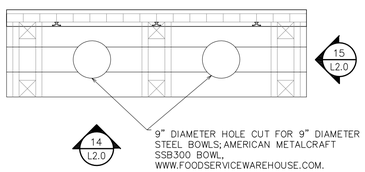


11 TREX DECK/STAGE
3/4"=1'-0"

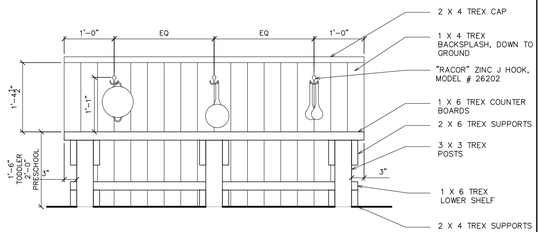


12 TREX PLANTER BOX
3/4"=1'-0"

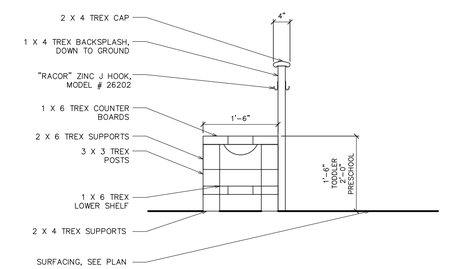
GENERAL NOTES:
1. ALL KITCHEN ACCESSORIES TO BE PROVIDED BY CENTER,EXCEPT FOR INSET BOWLS.
2. ALL HARDWARE TO BE STAINLESS STEEL FLATHEAD SCREWS.
3. PROVIDE ½" RADIUS ON ALL EXPOSED EDGES.
4. COUNTERTOP HEIGHT VARIES PER AGE GROUP; SEE ELEVATIONS.



13 SAND COUNTER PLAN
1/2"=1'-0"



14 SAND COUNTER ELEVATION
1/2"=1'-0"



15 SAND COUNTER ELEVATION
1/2"=1'-0"

16 NOT USED
--

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REGISTERED LANDSCAPE ARCHITECT
JOHN FORREST BARKER
CERTIFICATE NO. 486

PERMIT SET 18, JAN 2018

Bright Horizons FAMILY SOLUTIONS®

KIRKLAND URBAN

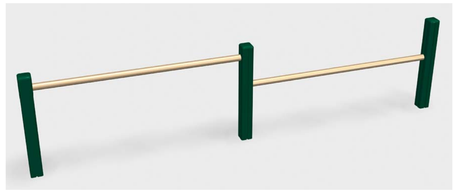
425 URBAN PLAZA
KIRKLAND, WA 98033

PLAYGROUND DETAILS

SCALE:	AS NOTED
DRAWN:	PC / RC
CHECKED:	NM
PROJECT NO:	15020.03

L2.0

1 INFANT FUN CENTER
NOT TO SCALE



2 PULL-UP BAR
NOT TO SCALE

3 TODDLER CLIMBER SMALL
NOT TO SCALE

4 RHAPSODY DITTY METALLOPHONE
NOT TO SCALE

5 RHAPSODY KETTLE JUNIOR DRUM
NOT TO SCALE

6 ALTERNATE RECYCLED ROOF PLAYHOUSE
NOT TO SCALE

7 SEATED SAND BOX
NOT TO SCALE

8 RHAPSODY JINGLE METALLOPHONE
NOT TO SCALE

9 SAND COUNTER
NOT TO SCALE

10 VINE HOUSE
NOT TO SCALE

11 TWO'S CLIMBER SMALL
NOT TO SCALE

NOTE: SET ON GRAVEL ON TOP OF DRAINAGE TILE

12 CAPE COD SHED
NOT TO SCALE

13 OUTLAST BLOCKS AND SHED
NOT TO SCALE

14 PRESCHOOL CLIMBER LARGE
NOT TO SCALE

15 RHAPSODY WARBLE CHIMES
NOT TO SCALE

16 SINGLE POST SHADE STRUCTURE
NOT TO SCALE

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PLAYGROUND IMAGES

SCALE:	AS NOTED
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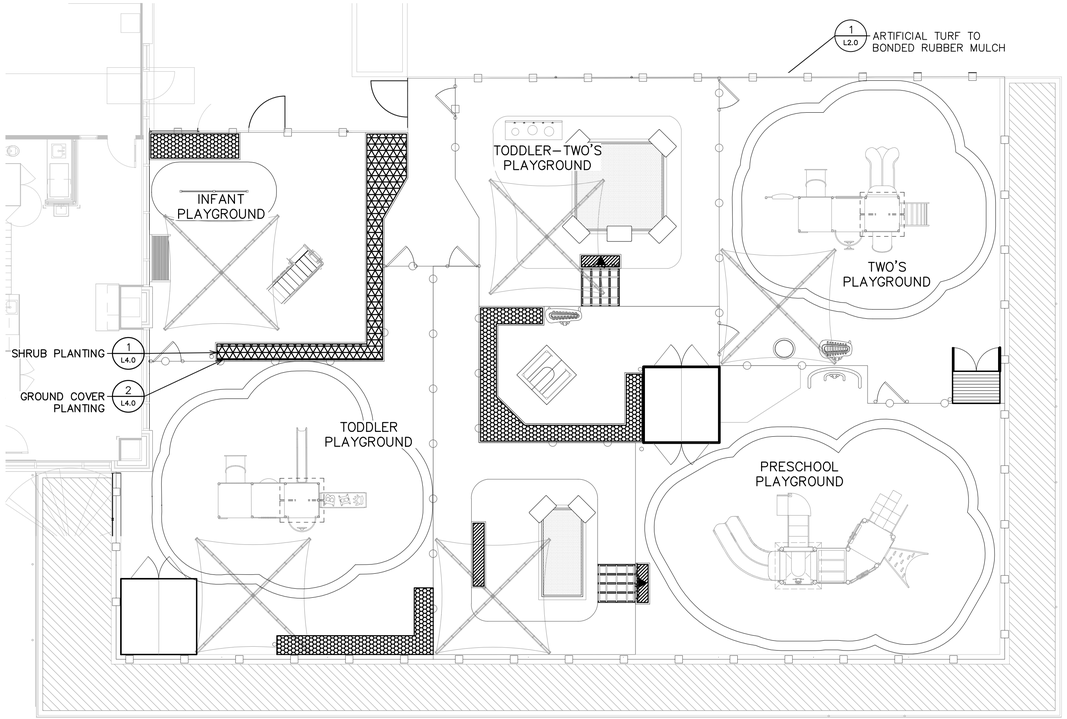
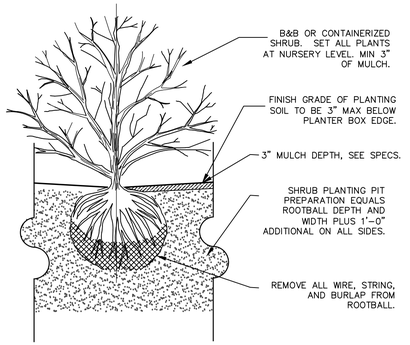
PROJECT NO:	15020.03

L2.1

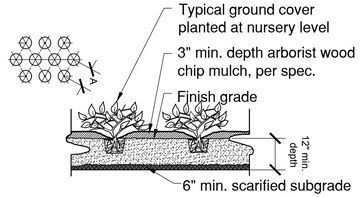




1 L4.00 Shrub Planting
NTS

PLANTING NOTES

1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS SHOW ON THE DRAWINGS, AS SPECIFIED, AND IN QUANTITIES LISTED ON THE PLANT LIST. ALL PLANTS SHALL BE NURSERY–GROWN, IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK OF THE AMERICAN ASSOC. OF NURSERYMEN.
2. ALL PLANT MATERIAL SHALL BE HEALTHY, THRIVING PLANTS AND SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. ALL PLANTS THAT HAVE NOT SURVIVED ONE YEAR AFTER SUBSTANTIAL COMPLETION SHALL BE REPLACED AND RE–PLANTED AT NO ADDITIONAL CHARGE TO THE OWNER.
3. PLANTING SOIL SHALL BE A FINE SANDY LOAM, WELL–DRAINING, FREE OF STONES GREATER THAN ONE INCH OR ANY DEBRIS AND OTHER EXTRANEOUS MATTER, AND SHALL BE A MIXTURE OF TOPSOIL, COMPOST AND SAND, WITH AN ACIDITY RANGE OF PH5.6 TO PH 6.5. TOPSOIL, ORGANIC MATTER AND FERTILIZER MIX FOR PLANTING SOIL MIX SHALL BE THOROUGHLY PRE–MIXED IN THE PROPORTIONS OF ONE PART ORGANIC MATTER, TO FOUR PARTS TOPSOIL TOGETHER WITH FERTILIZER AT A RATE DETERMINED BY A SOIL TEST.
4. INSTALL SLOW RELEASE FERTILIZER PACKETS PER MANUFACTURER'S DIRECTIONS AT EACH NEWLY PLANTED TREE.
5. PLANTS SHALL BE PLANTED AT THE SAME DEPTH AS THEY PREVIOUSLY GREW. SET PLANTS UPRIGHT, PLUMB, AND FACED TO GIVE THE BEST APPEARANCE. REMOVE BURLAP, ROPE, WIRE, ETC FROM THE SIDES AND TOPS OF ROOT BALLS.
6. PLANTS SHALL BE WELL–WATERED, AND MULCH MATERIAL SHALL BE PLACED OVER THE ENTIRE SAUCER AREA TREES AND OVER THE ENTIRE PLANT BED AREAS TO A DEPTH OF 3" AFTER SETTLEMENT.
7. MULCH SHALL BE SHREDDED PINE BARK AGED A MINIMUM OF SIX (6) MONTHS, DARK BROWN IN COLOR, FREE OF CHUNKS AND PIECES OF WOOD THICKER THAN ONE–QUARTER INCH, OR ANY PIECES THAT CHILDREN MIGHT CHOKE ON. MULCH SHALL BE FINELY, TRIPLE– SHREDDED AND FREE OF STRINGY MATERIAL OVER 3" IN LENGTH. IN INFANT AREAS INSTALL SHREDDED LEAF MULCH IN PLACE OF BARK MULCH (FLORA MULCH ACCEPTABLE IN FLORIDA).
8. MAINTENANCE OF PLANTINGS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE FOR A MINIMUM OF 90 DAYS. MAINTENANCE SHALL CONSIST OF KEEPING THE PLANTS IN A HEALTHY GROWING CONDITION.
9. CONTRACTOR SHALL REMOVE ALL DEBRIS, PACKAGING, STRIPPED LAWN, AND SURPLUS MATERIAL OFF–SITE.
10. IRRIGATION TO BE DESIGN–BUILD AND PROVIDED TO ALL PLANTER BOXES



Notes:
1. All groundcover shall be planted at equal triangular spacing or on center spacing as specified on planting plan
2. See plant schedule for "A" spacing
3. Locate groundcover one half of specified spacing distance "A" from any curb, sidewalk, or other hard surface, unless otherwise specified
4. Planter Soil, per specs.

2 L4.00 Ground Cover Planting

Plant Legend

Ornamental Garden Beds

Sybl.	Latin Name	Common Name	Size	Qnty.	Spc.
	Hakonechloa macra 'Aureola'	Japanese Forest Grass	#1 Pot	6	12" o.c.
	Liriope muscari 'Big Blue'	Big Blue Lily Turf	#1 Pot	6	
	Ophiopogon formosanum	Taiwan Mondo Grass	#1 Pot	6	

Butterfly Garden Beds

Sybl.	Latin Name	Common Name	Size	Qnty.	Spc.
	Echinacea purpurea 'Magnus'	Coneflower	#1 Pot	46	12" o.c.
	Butterfly Weed	Asclepias tuberosa	#1 Pot	46	
	Coreopsis verticillata ' Moonbeam'	Moonbeam Coreopsis	#1 Pot	46	

Sensory Garden Beds

Sybl.	Latin Name	Common Name	Size	Qnty.	Spc.
	Globe Allium	Allium	#1 Pot	20	12" o.c.
	Spearmint	Mentha spicata	#1 Pot	18	
	Salix discolor	Pussywillow	#5 Pot	1	
	Lavandula angustifolia 'Hidcote'	Hidcote Blue English Lavender	#1 Pot	8	
	Stachys byzantina	Lamb's ear	#1 Pot	16	

Vines

Sybl.	Latin Name	Common Name	Size	Qnty.	Spc.
	Campsis radicans 'Yellow Trumpet'	Yellow Trumpet Vine	#1 Pot	2	See Plan

0 4' 8' 16'
Scale: 1/8"=1'-0"
(22"x34" Sheet)

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425 URBAN PLAZA
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PLANTING PLAN

SCALE: AS NOTED
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CHECKED: NM
PROJECT NO: 15020.03

L3.0

BNR18-00430
Page 31 of 52

GENERAL HVAC NOTES

1. THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS. ADDITIONAL MECHANICAL NOTES MAY BE INDICATED ON EACH MECHANICAL DRAWING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
3. REFER TO ARCHITECTURAL DRAWING FOR ROOM ELEVATIONS. LOCATE MECHANICAL DEVICES SUCH AS TEMPERATURE SENSORS, HUMIDISTATS, PANELS, ETC. SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.). MOUNT THERMOSTATS 48" A.F.F. UNLESS NOTED OTHERWISE.
4. MECHANICAL DRAWINGS SHOW APPROXIMATE LOCATIONS FOR GRILLES AND DIFFUSERS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF GRILLES, REGISTERS, DIFFUSERS, AND OTHER CEILING OR SURFACE MOUNTED DEVICES. INSTALL EQUIPMENT IN CONFORMANCE WITH ARCHITECTURAL FEATURES IN THE CENTER OF CEILING TILES, IN THE CENTER OF ROOMS, OR WHERE INDICATED ON ARCHITECTURAL DRAWINGS. WHERE EQUIPMENT IS NOT INDICATED ON ARCHITECTURAL DRAWINGS, OBTAIN DIRECTION FROM ARCHITECT PRIOR TO INSTALLATION.
5. SEE ARCH. DRAWINGS FOR EXACT SIZE AND LOCATION OF LOUVERS. COORDINATE EXACT SIZE OF ATTACHED DUCTWORK/PLENUM AND/OR MOTORIZED DAMPERS WITH ARCH. DRAWINGS.
6. GENERALLY DUCTWORK PLANNED TO BE TIGHT TO STRUCTURE WITH PIPING BELOW DUCTWORK AND BETWEEN LIGHT FIXTURES. ADJUST AS NECESSARY.
7. COORDINATE LOCATIONS OF MECHANICAL EQUIPMENT AND DUCTWORK TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND SERVICE ACCESS DUE TO EQUIPMENT MAINTENANCE.
8. ARRANGE HVAC EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES AND RECOMMENDED BY MANUFACTURER ARE PROVIDED. PROVIDE 42" CLEAR AT DISCONNECT SWITCH ON TERMINAL UNITS WITH ELECTRIC HEATING COIL.
9. PROVIDE ACCESS PANELS/DOORS IN DUCTWORK AS INDICATED IN DIVISION 23 FOR INSPECTION AND MAINTENANCE FOR ALL SMOKE/FIRE DAMPERS.
10. GENERAL CONTRACTOR TO PROVIDE ACCESS TO FIRE AND/OR COMBINATION FIRE/SMOKE DAMPERS THROUGH ACCESS DOORS IN HARD CEILINGS AND WALLS. WHERE ACCESS DOORS PENETRATE FIRE RATED SYSTEMS THEY SHALL BE RATED IN ACCORDANCE WITH IBC REQUIREMENTS.
11. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL CHARACTERISTICS OF MECHANICAL EQUIPMENT (VOLTAGES, ETC).
12. DUCTWORK AND PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" IF RUNNING PARALLEL AND ABOVE CABLE TRAYS, ALLOW 18" TO THE SIDE OF CABLE TRAYS.
13. ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITTAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEVIATE FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO PROPERLY SERVE EQUIPMENT.
14. DRAWINGS ARE SCHEMATIC IN SOME AREAS AND MAY NOT SHOW OFFSETS WHICH MAY BE REQUIRED. PROVIDE OFFSETS AS REQUIRED AT NO ADDITIONAL COST.
15. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
16. DUCTS AND PIPES INDICATED WITHOUT DIMENSIONS SHALL BE SIZED PER PRECEDING UPSTREAM DUCT AND PIPE SECTIONS.
17. DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSION.
18. PROVIDE FABRICATED STEEL MEMBER SUPPORTS AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS INDICATED ON DRAWINGS, OR IN SPECIFICATIONS FOR INSTALLATION OF EQUIPMENT. REQUIRED STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL.
19. IF REQUIRED FOR INSTALLATION OF PIPES, DUCTS, AND EQUIPMENT, PROVIDE ADDITIONAL STRUCTURAL MEMBERS BETWEEN COLUMNS, JOISTS, AND STRUCTURAL FRAME TO MEET SUPPORT REACTIONS (FORCES, MOMENTS, DEFLECTIONS). STRUCTURAL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
20. DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS, AND SHEAR WALLS, UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
21. PROVIDE DUCT LINING FOR THE FOLLOWING DUCTWORK:
    A. EXHAUST DUCTWORK FROM EACH EXHAUST GRILLE TO A POINT 10 FT UPSTREAM OF THE GRILLE (EXCEPT FOR KITCHEN AND SHOWER EXHAUST DUCTWORK).
    B. ALL AIR TRANSFER DUCTS AND CEILING RELIEF GRILLES.
    C. ALL EXHAUST DUCTWORK WITHIN 15' OF A FAN (EXCEPT KITCHEN AND SHOWER EXHAUST).
    D. ALL SUPPLY AND RETURN DUCTWORK WITHIN 15' OF A FAN.
    E. ALL MIXED AIR AND EXHAUST AIR PLENUMS. DO NOT LINE OUTDOOR AIR PLENUMS.
    F. PLENUMS UPSTREAM OF RETURN FANS.
    G. OTHER LOCATIONS WHERE NOTED ON DRAWINGS OR SPECIFIED.
22. PROVIDE A VOLUME DAMPER FOR EACH SUPPLY BRANCH, RETURN BRANCH (DUCTED ONLY), & EXHAUST BRANCH WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH, AND ELSEWHERE AS NOTED ON DRAWINGS OR IN SPECIFICATIONS.
23. PROVIDE CONICAL SPIN-IN FITTINGS FOR ALL 90 DEGREE ROUND DUCT BRANCHES FROM RECTANGULAR SUPPLY DUCTWORK. DO NOT USE STRAIGHT TEE FITTINGS.
24. DUCTWORK STATIC PRESSURE AND SEAL CLASS, BASED UPON SMACNA:
25. REFER TO WASHINGTON STATE NREC COMPLIANCE REQUIREMENTS ON DRAWING SCHEDULE SHEETS FOR ADDITIONAL MECHANICAL PROVISIONS.
26. SEAL AND LEAK TEST DUCTWORK PER WSEC C403.2.7.3 AND PER DIVISION 23 SPECIFICATIONS.
27. BALANCE HVAC SYSTEM PER WSEC C408.2.2 AND PER DIVISION 23 SPECIFICATIONS.
28. COMMISSION HVAC SYSTEM PER WSEC C403.2.9, C408 AND PER DIVISION 23 SPECIFICATIONS.
29. PROVIDE COMPLETION/RECORD DRAWINGS PER WSEC AND PER DIVISION 23 SPECIFICATIONS.
30. THERMOSTATS SHALL BE INTERLOCKED TO PREVENT SIMULTANEOUS HEATING AND COOLING PER WSEC.
31. INSULATE DUCTWORK PER WSEC C403.2.7 AND PER DIVISION 23 SPECIFICATIONS (WHICHEVER IS GREATER).
32. INSULATE PIPING PER WSEC, C403.2.8 AND PER DIVISION 22 SPECIFICATIONS (WHICHEVER IS GREATER).
33. PROVIDE MEANS OF ACCESSING/ADJUSTING BALANCING DAMPERS @ ALL LOCATIONS WHERE MEANS OF ACCESS HAS NOT BEEN SHOWN ON ARCHITECTURAL DRAWINGS. PROVIDE UNITED ENERTECH I – SERIES REMOTE POWER/BALANCE SYSTEM OR APPROVED EQUAL. COORDINATE LOCATION OF REMOTE JACK WITH ARCHITECT & RECORD ON AS-BUILT DRAWINGS.

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	AIR CONDITIONING
ABV	ABOVE
AD	ACCESS DOOR
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUALIZED FUEL EFFICIENCY
AHU	AIR HANDLING UNIT
AL	ALUMINUM
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ATMOS	ATMOSPHERE
BATT	BATTERY
BDD	BACK DRAFT DAMPER
BF	BLIND FLANGE
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSE POWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CHEM	CHEMICAL INJECTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECT OR CONNECTION
CPLG	COUPLING
CS	CARBON STEEL
CSC	CARSEALED CLOSED
CSO	CARSEALED OPEN
CV	CONSTANT VOLUME
CW	COLD WATER
CRD	CEILING RADIATION DAMPER
DET	DETAIL
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DI	DUCTILE IRON
DMPR	DAMPER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DR	DRAIN
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ECC	ECCENTRIC
ECON	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENT, EFFICIENCY
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ET	ELECTRIC TRACED
EXIST,(E)	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
F	FAHRENHEIT
FD	FIRE DAMPER OR FLOOR DRAIN
FF	FINISHED FLOOR
FLGD	FLANGED
FLR	FLOOR
FCO	FLOOR CLEAN OUT
FPM	FEET PER MINUTE
FLTR	FILTER
FOF	FACE OF FLANGE
FPI	FINS PER INCH
FSK	FOIL SKRIM KRAFT LINED DUCT (SPUNSTRAND)
FT	FEET, FOOT
FU	FIXTURE UNITS
FV	FACE VELOCITY
FW	FEED WATER
FPTU	FAN POWERED TERMINAL UNIT
G	GAS
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GR	GRILLE
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GW	GRAY WATER (NON POTABLE)
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HP	HORSE POWER
HPFS	HIGH POINT FINISHED SURFACE
HR	HOUR
HTG	HEATING
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER CIRCULATING
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
IA	INSTRUMENT AIR
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IH	INSULATION HOT
IN	INCH, INCHES
INFO	INFORMATION
INST	INSTRUMENT
INSUL	INSULATE, INSULATION
INV	INVERT
IRR	IRRIGATION (NON POTABLE)
IU	INDOOR UNIT
JAN	JANITOR
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUND
LC	LOCKED CLOSED
LF	LINEAL FEET
LOC	LOCATION
LL	LANDLORD
LVG	LEAVING
MATL	MATERIAL
MA	MED GAS
MAX	MAXIMUM
MPG	MEDIUM PRESSURE GAS
MA	MIXED AIR
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MCA	MAXIMUM CIRCUIT AMPS
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MED	MEDIUM
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MV	MED VACUM
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER OR NORMALLY OPEN
NG	NATURAL GAS
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OSA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OA	OUTSIDE AIR
OD	OUTSIDE DIMENSION
OPP	OPPOSITE
OV	OUTLET VELOCITY
OCP	OVER CURRENT PROTECTION
OU	OUTDOOR UNIT
P	PUMP
PD	PRESSURE DROP
PERF	PERFORATED
PF	PRE FILTER
PH	PHASE
PJ	PUSH ON JOINTS
PLCS	PLACES
PNL	PANEL
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PIPE SUPPORT
PSV	PRESSURE SAFETY (RELIEF) VALVE
QTY	QUANTITY
R	RELIEF
RA	RETURN AIR
RED	REDUCER
REQD	REQUIRED
RR	REMOVE AND RELOCATE
RJ	RESTRAINED JOINTS
RET	RETURN
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
RWL	RAINWATER LEADER
SS	SANITARY SEWER STAINLESS STEEL
SA	SUPPLY AIR
SCHED	SCHEDULE
SECT	SECTION
SEER	SEASONAL ENERGY EFF. RATIO
SVC	SERVICE
SHT	SHEET
SD	SMOKE DETECTOR
SL	SOUND LINING
SV	SOLENOID VALVE
SW	SOCKET WELD
STA	STATION
STD	STANDARD
SF	SUPPLY FAN
SFD	SMOKE/FIRE DAMPER
S.I.O.	SUPPLIED AND INSTALLED BY OWNER/OTHER
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SYS	SYSTEM
STAT	THERMOSTAT
TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENTIAL
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
THRU	THROUGH
TI	TENANT IMPROVEMENT
TSTAT	THERMOSTAT
TYP	TYPICAL
TRU	TERMINAL REHEAT UNIT
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UMC	UNIFORM MECHANICAL CODE
UP	UNIFORM PLUMBING CODE
UBC	UNIFORM BUILDING CODE
UPC	UNIFORM PLUMBING CODE
UG	UNDERGROUND
V	VOLT
VAC	VOLTS AC
VDC	VOLTS DC
VD	VOLUME DAMPER
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
VOL	VOLUME
V/PH/HZ	VOLTS/PHASE/HERTZ
W/	WITH
W/O	WITHOUT
W	WASTE
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTER
WT	WATER TANK
WT	WEIGHT
WTR, W	WATER

DUCTWORK

- 12x8 — DUCT (1ST FIGURE = SIDE SHOWN, AND FIGURE = SIDE NOT SHOWN)
- FLEXIBLE CONNECTION
- ACOUSTIC DUCT
- VOLUME DAMPER
- 45° TAKE-OFF
- 90° RECTANGULAR TAKE-OFF WITH 45° TAPER
- FLEXIBLE DUCT
- SUPPLY AIR DUCT TURNING UP OR TOWARD
- SUPPLY AIR DUCT TURNING DOWN OR AWAY
- RETURN OR EXHAUST AIR DUCT TURNING UP OR TOWARDS
- RETURN OR EXHAUST AIR DUCT TURNING DOWN OR AWAY
- ROUND DUCT TURNING UP OR TOWARD
- ROUND DUCT TURNING DOWN OR AWAY
- R — INCLINE RISE (R) OR DROP (D) IN DIRECTION OF ARROW
- AP — ACCESS DOOR (AD) OR ACCESS PANEL (AP)
- ø — ROUND DUCT OR PHASE INDICATOR
- BDD — BACKDRAFT DAMPER
- M — MOTORIZED DAMPER
- SFD — COMBINATION SMOKE/FIRE DAMPER
- CRD — CEILING DIFFUSER OR GRILLE RADIATION DAMPER
- FD, SD — FIRE DAMPER (FD) SMOKE DAMPER (SD)
- 90° ELBOW, R/W OR R/D = 1.5
- SQUARE CORNER ELBOW WITH TURNING VANES
- 90° CONICAL SPIN-IN
- TRANSITION OR REDUCER – NOTED FOT (FLAT TOP) OR FOB (FLAT ON BOTTOM) IF REQUIRED
- WYE FITTING
- 90° DIVERGING RECTANGULAR TEE, EITHER RADIUS OR TURNING VANES

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING WORK OR BACKGROUND INFORMATION (LIGHT LINE)
	NEW WORK (HEAVY LINE)
R	RELOCATE EXISTING EQUIPMENT ITEM OR DEVICE INDICATED
	EXISTING EQUIPMENT OR DUCTWORK TO BE SELECTIVELY DEMOLISHED
EF-9	TYPICAL EQUIPMENT DESIGNATION (EXHAUST FAN SHOWN)
U	UNDER CUT DOOR 3/4"

CONTROLS

CO	CARBON MONOXIDE (CO) SENSOR
OS	OCCUPANCY (CO2) SENSOR
T	ROOM THERMOSTAT (T)
SD	DUCT SMOKE DETECTOR

TERMINALS

TERMINALS:

CD-1 / 8"ø / 350	CEILING DIFFUSER, TYPE 1 8"ø NECK BALANCE TO 350 CFM FLOW ARROWS SHOWN ONLY IF AIR FLOW IS NOT SYMMETRICAL
RG-1 / 2412 / 350	RETURN GRILLE, TYPE 1 24x12 NECK BALANCE TO 350 CFM
EG-1 / 2412 / 350 / TYP 2	EXHAUST GRILL, TYPE 1 24x12 NECK BALANCE TO 350 CFM TYPICAL OF 2

HVAC EQUIPMENT

- UNIT VENTILATOR
- UNIT HEATER

DRAWING SYMBOLS

- NORTH — NORTH ARROW
- A / M201 — SECTION IDENTIFICATION; SHEET IDENTIFICATION
- A, 6 — COLUMN GRID SYMBOLS
- 1 — GENERAL MECHANICAL NOTES NUMBER IDENTIFICATION
- 1 — FLAG MECHANICAL NOTES NUMBER IDENTIFICATION

GENERAL FIRE PROTECTION NOTES

1. THESE NOTES SHALL APPLY TO ALL FIRE PROTECTION DRAWINGS AND ALL ASPECTS OF FIRE PROTECTION FOR THIS PROJECT.
2. SCOPE OF WORK INCLUDES MODIFYING EXISTING FIRE SPRINKLER SYSTEM TO ACCOUNT FOR THE REVISIONS SHOWN ON THE ARCHITECTURAL DRAWINGS AS REQUIRED BY NFPA 13. THIS SHALL INCLUDE BUT NOT BE LIMITED TO MAKING ADJUSTMENTS TO SPRINKLER HEAD LOCATION AND QUANTITY TO ACCOUNT FOR THE INSTALLATION OF NEW WALLS/CEILINGS AS PART OF THIS TI PROJECT. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID IN ORDER TO UNDERSTAND EXACT SCOPE OF WORK. PROJECT SCOPE IS TO BASICALLY MODIFY THE EXISTING WET SYSTEM SO THAT BUILDINGS AREAS MODIFIED BY THIS PROJECT ARE COVERED AGAIN BY A NFPA 13 WET SYSTEM.
3. THESE DRAWINGS ARE CONCEPTUAL AND ARE FOR INFORMATIONAL AND BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS AND SUBMIT TO THE AUTHORITY HAVING JURISDICTION FOR FIRE SPRINKLER PERMIT. THE SPRINKLER CONTRACTOR'S SHOP DRAWINGS SHALL BE APPROVED BY THE ARCHITECT & ENGINEER AND AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHOP DRAWINGS SHALL BE AVAILABLE ON-SITE FOR INSPECTION PURPOSES. THE CONTRACTOR SHOP DRAWINGS AND INSTALLATION OF THE SYSTEM SHALL BE AS SPECIFIED IN DIVISION 21 AND AS SHOWN ON THESE DRAWINGS.
4. THE FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH ALL DISCIPLINES, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL ON PIPING PLACEMENT, ROUTING SPRINKLER HEADS AND SPRINKLER HEAD OBSTRUCTIONS. PROVIDE ADDITIONAL PIPING AND SPRINKLER HEADS AS REQUIRED.
5. REFER TO ARCHITECTURAL DRAWINGS FOR PIPE ROUTING DETAILS IN SPACES WITH EXPOSED SPRINKLER PIPING.
6. INSTALLATION SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS (LOCAL AND STATE). NOTHING ON THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS ALLOWING DEVIATION FROM THIS REQUIREMENT. IF A CONFLICT SHOULD OCCUR BETWEEN DRAWINGS AND REGULATIONS, THE REGULATIONS SHALL TAKE PRECEDENT AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SUCH CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION.

SHEET INDEX

VERIFY SCALE

BAR MEASURES ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS DRAWING, ADJUST SCALES ACCORDINGLY.

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City of Kirkland
Reviewed by AHaupt
06/21/2018

BRIAN W. ROETCISOENDER
STATE OF WASHINGTON
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PERMIT SET 18 JAN 2018
PROGRESS SET 04 DEC 2017

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HVAC
LEGEND, NOTES,
& ABBREVIATIONS

SCALE:	AS NOTED
DRAWN:	BAQ
CHECKED:	BWR
PROJECT NO:	2016–084

M0.01

ELECTRIC MAKEUP AIR UNIT SCHEDULE

EQUIPMENT NUMBER	MAU-1
TYPE	INLINE
SERVICE CONDITIONS	
HEATING CAPACITY - kW	10
CAPACITY - CFM	600
E.S.P. - IN. W.C.	0.2
ELECTRICAL	
VOLTS/ø/Hz	208/3ø/60
AMPS	27.8
MOTOR FLA	1.42
MANUFACTURER/DESIGN BASIS	
MAKE	THERMOLEC
MODEL	THERMO-X-AIR FER-12-10
REMARKS:	
UNIT IS INTERLOCKED TO OPERATE WITH EF-1	

HRU AIRFLOW SCHEDULE

SYSTEM	HRU #	EXHAUST CFM	TOTAL CFM	FAN COIL	OSA CFM	TOTAL CFM
VRF-1	HRU-1	70		FCU-1	125	
		430	500	FCU-2	445	570
	HRU-2	645		FCU-3	650	
		335	980	FCU-4	380	1030
	HRU-3	990	990	FCU-5	1095	1095
	HRU-4	1020	1020	FCU-6	1020	1020
	HRU-5	580		FCU-7	615	
		190		FCU-8	185	
		0	770	FCU-9	45	845
		TOTAL HRU	4,260			4,560
		EXHAUST FAN EF-1	900		MAU-1	600
		TOTAL EXHAUST	5,160		TOTAL SUPPLY	5,160
					NET AIR BALANCE	-

CONTROLS SCHEDULE

MARK	MAKE/MODEL	DESCRIPTION	NOTES
T	LG UNIT CONTROLLER	ELECTRONIC PROGRAMMABLE THERMOSTAT, REMOTE CONTROLLER	MOUNT 60" A.F.F.
M	BELIMO, NM24	2-POSITION, 24V DAMPER ACTUATOR	
OS	CO2 SENSOR	LG PES-CORVO	MOUNT 60" A.F.F.
T2	REVERSE-ACTING T-STAT		MOUNT 60" A.F.F.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MAKE/MODEL	DESCRIPTION	NOTES
CD-1	TITUS MCD	CEILING MOUNTED MODULAR CORE SUPPLY DIFFUSER	
EG-1	TITUS 50F	EGGCRATE EXHAUST GRILLE	
RG-1	TITUS 50F	EGGCRATE RETURN GRILLE	
TG-1	TITUS 50F	EGGCRATE TRANSFER GRILLE	SOUND LINE TRANSFER DUCT
NOTE: REFER TO ARCHITECTURAL PLANS FOR CEILING FINISH REQUIREMENTS.			

HVAC SYSTEM CONTROLS AND SEQUENCE OF OPERATION

GENERAL: SEQUENCES OF OPERATION SHALL IN GENERAL BE ACCOMPLISHED USING MANUFACTURER'S STANDARD CONTROLS AND USING SCHEDULED CONTROL COMPONENTS. ALL TEMPERATURE SET POINTS SHALL BE ADJUSTABLE.

VRF SYSTEM SHALL BE EQUIPPED WITH CENTRAL CONTROLLER TO ALLOW INTERNET BASED OVERALL SYSTEM CONTROL AND ADJUSTMENT OF ALL SET POINTS, SCHEDULES, ETC.

FAN COIL SEQUENCE OF OPERATION

OCCUPIED OPERATION:
TYPICAL: FAN COILS SHALL OPERATE USING STANDARD MFR CONTROLS AND HARD WIRED CONTROLLER.
FAN SPEED SHALL ADJUST/MODULATE BASED ON LOAD REQUIREMENTS. FAN SPEED SHALL NOT GO BELOW 25% OF PEAK AIRFLOW AS REQUIRED BY SMC 1104.4.2, EXCEPTION.
CORRESPONDING HEAT RECOVERY UNIT (HRU) SHALL BE INTERLOCKED ON.

UNOCCUPIED OPERATION:
FAN SHALL CYCLE UPON CALL FOR HEATING OR COOLING BASED ON SETBACK TEMPERATURES.
CORRESPONDING HEAT RECOVERY UNIT (HRU) SHALL BE OFF.

FOR UNITS WITH AIRFLOWS OF 2,000 CFM OR MORE, PROVIDE DUCT SMOKE DETECTOR TO SHUTDOWN UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION AS REQUIRED BY IMC SECTION 606.2. INTERFACE THESE SMOKE DETECTOR ALSO WITH BUILDING FIRE ALARM SYSTEM.

HEAT RECOVERY UNITS

HRU SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS TO PROVIDE VENTILATION AND EXHAUST TO FAN COILS AND SPACES SERVED. UNIT SHALL OPERATE USING STANDARD CONTROLS FOR BYPASS EITHER DURING HEATING OR COOLING MODE OF ASSOCIATED FAN COILS WHEN HEAT RECOVERY WOULD INCREASE FAN COIL LOADING. UNIT SHALL BE OFF DURING UNOCCUPIED HOURS. FOR CLASSROOMS OVER 500 SQ.FT. (PER WSEC C403.2.6.3), HRU FANS SHALL OPERATE ON REDUCED SPEED UNLESS ONE OF THE CORRESPONDING CO2 SENSORS DETECTS A RISE IN OCCUPANCY (300 PPM OVER AMBIENT, ADJUSTABLE) THAT WOULD REQUIRE MORE CFM THAN IS DELIVERED AT MINIMUM POSITION. IN THAT EVENT, HRU FANS SHALL OPRATE ON NORMAL SPEED AS REQUIRED TO PROVIDE THE AIRFLOW RATES AS SHOWN ON THE AIR BALANCE SCHEDULE. CORRESPONDING MOTORIZED OUTSIDE AIR INTAKE AND EXHAUST DAMPERS SHALL OPEN WHENEVER UNIT IS ENERGIZED.

EXHAUST FAN SEQUENCE OF OPERATION

EF-1 SHALL BE ENERGIZED BY DIVISION 26 MOTOR STARTER/SWITCH LOCATED NEAR KITCHEN HOOD.
MAU-1 SHALL BE INTERLOCKED TO OPERATE WHENEVER EF-1 IS ENERGIZED. UNIT SHALL BE SET TO MAINTAIN FIXED SUPPLY AIR TEMP (INITIAL 55 DEG F).

TRANSFER FAN SEQUENCE OF OPERATION

TF-2 SHALL BE ENERGIZED BY REVERSE-ACTING T-STAT FOR TEMPERATURES OVER 78°F.

VRF REFRIGERANT CHARGE CALCULATION
PER 2015 IMC, CHAPTER 11.

REFRIGERANT TYPE R410A
REFRIGERANT CLASSIFICATION A1
ALLOWABLE SPACE CONCENTRATION 25 LBS/1000 CU. FT.Table 1103.1

						B OCCUPANCY	I4 OCCUPANCY
	UNIT CHARGE	PIPING CHARGE	TOTAL	CU. FT	HT	ROOM SIZE*	ROOM SIZE**
SYSTEM	LBS	LBS	LBS	MIN. VOLUME	FT	SQ FT REQ.	SQ FT REQ.
VRF-1	60.7	54.84	115.5	4622	18	257	514

* ROOMS SMALLER THAN LISTED SQ. FT. PROTECTED PER IMC 1104.4.1 COMMUNICATING SPACES THROUGH PERMANENT OPENINGS OR HVAC DUCTS BETWEEN SPACES AND PER 1104.4.2 THAT FANS CAN'T OPERATE BELOW 25% OF MAXIMUM AIRFLOW.
** I4 OCCUPANCY SPACES (CLASSROOMS) SHALL HAVE HALF EXPOSURE LIMIT PER SMC 1104.2.1
ENTIRE SPACE UTILIZES A RETURN AIR PLENUM INTERCONNECTING ALL ROOMS AND PER 1104.4.3 THAT ENTIRE VOLUME RESULTS IN A DILUTION SO THAT THERE ARE NO EXPOSURE LIMIT ISSUES.

VRF REFRIGERANT HEAT RECOVERY UNIT SCHEDULE

MARK	SYSTEM	MAKE/MODEL	UNIT PORTS	MAX PORT CAPACITY (MBH)	MAX UNIT CAPACITY (MBH)	VOLTAGE/PHASE	RLA
HRB-2C-1	VCU-FR-2C	LG PRHR042A	4	54,000	192,000	208-230/1ø	0.2
HRB-2C-2	VCU-FR-2C	LG PRHR042A	4	54,000	192,000	208-230/1ø	0.2
HRB-2C-3	VCU-FR-2C	LG PRHR032A	3	54,000	192,000	208-230/1ø	0.15

(E) VRF OUTDOOR UNIT SCHEDULE (FOR REFERENCE ONLY)

MARK	MAKE/MODEL	TYPE	COOLING MBH		HEATING MBH		OUTDOOR TEMP (°F)			REFRIGERANT	PIPING CONNECTIONS (in.)			ELECTRICAL	
			TOTAL	CORRECTED	TOTAL	CORRECTED	COOLING DB	COOLING WB	HEATING DB		LIQUID	LP GAS	HP GAS	V/ø/Hz	MCA
VCU-FR-2C	ARUM336DTE5	HR MULTI-V	336	330.9	378	349.5	84	65	21	R-410A	¾	1⅜	1⅛	460/3ø/60	56.6

VRF INDOOR UNIT SCHEDULE

MARK	MAKE/MODEL	TYPE	CFM (HI)	ESP (in.)	COOLING MBH				HEATING MBH		ENTERING AIR TEMP (°F)			PIPING CONN. (in.)		ELECTRICAL		WEIGHT (LBS.)
					TOTAL	SENSIBLE	CORRECTED TOTAL	CORRECTED SENSIBLE	TOTAL	CORRECTED	COOLING DB	COOLING WB	HEATING DB	LIQUID	GAS	V/ø/Hz	RLA	
FCU-1	ARNU283BGA4	DUCTED	915	0.31	28.0	20.7	23.7	19.0	31.5	23.9	76	62	79	⅜	⅝	208-230/1ø/60	2.65	83.8
FCU-2	ARNU363BGA4	DUCTED	1140	0.31	36.2	26.8	30.6	24.5	40.1	30.7	76	62	79	⅜	⅝	208-230/1ø/60	2.65	83.8
FCU-3	ARNU483BRA4	DUCTED	1580	0.39	48.1	35.6	40.7	33.0	51.2	38.8	76	62	79	⅜	⅝	208-230/1ø/60	2.3	112
FCU-4	ARNU283BGA4	DUCTED	915	0.31	28.0	20.7	23.7	19.0	31.5	23.9	76	62	79	⅜	⅝	208-230/1ø/60	2.65	112
FCU-5	ARNU963B8A4	DUCTED	2540	0.59	95.9	67.1	81.2	61.6	107.5	81.4	76	62	79	⅜	⅞	208-230/1ø/60	5.2	192
FCU-6	ARNU963B8A4	DUCTED	2540	0.59	95.9	67.1	81.2	61.6	107.5	81.4	76	62	79	⅜	⅞	208-230/1ø/60	5.2	192
FCU-7	ARNU543BRA4	DUCTED	1800	0.39	54.0	40.5	45.7	38.6	61.4	46.5	76	62	79	⅜	⅝	208-230/1ø/60	3.5	112
FCU-8	ARNU283BRA4	DUCTED	1280	0.39	28.0	22.1	23.7	20.3	31.5	23.9	76	62	79	⅜	⅝	208-230/1ø/60	3.5	112
FCU-9	ARNU183BGA4	DUCTED	540	0.23	19.1	14.9	16.2	13.6	21.5	16.3	76	62	79	⅜	⅝	208-230/1ø/60	2.65	83.8

NOTES:
(1) NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80°/60°F (DB/WB), OUTDOOR OF 95°F (DB).
(2) NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB).
(4) SEE SCHEDMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
(5) FAN SPEED SHALL NOT GO BELOW 25% PEAK CFM PER IMC 1104.4.2.
(6) PROVIDE RETURN AIR PLENUM, FILTER BOX.

HEAT RECOVERY VENTILATOR SCHEDULE

MARK	MAKE/MODEL	TYPE	CFM	ESP (in. W.C.)	EFFICIENCY (TEMP.)		EFFICIENCY (ENTHALPY)	SOUND PRESS. (dBA)	ELECTRICAL		WEIGHT (LBS.)
					COOLING	HEATING	HEATING		V/ø/Hz	AMPS	
HRU-1	ARVU063ZEA2	CROSS FLOW FIXED CORE	590	0.64	59	58	>50%	41	208-230/1ø/60	3.44	148
HRU-2	ARVU123ZFA2	CROSS FLOW FIXED CORE	1180	0.64	59	58	>50%	45	208-230/1ø/60	6.82	331
HRU-3	ARVU123ZFA2	CROSS FLOW FIXED CORE	1180	0.64	59	58	>50%	45	208-230/1ø/60	6.82	331
HRU-4	ARVU123ZFA2	CROSS FLOW FIXED CORE	1180	0.64	59	58	>50%	45	208-230/1ø/60	6.82	331
HRU-5	ARVU093ZFA2	CROSS FLOW FIXED CORE	880	0.80	62	61	>50%	44	208-230/1ø/60	5.62	331

NOTES:
(1) MAX EXTERNAL STATIC PRESSURE IS AT AIRFLOW LISTED WITH FAN SET ON EXTRA-HIGH SPEED
(2) MAX. CAPACITY LISTED. SEE HRU AIRFLOW SCHEDULE FOR REQUIRED CFM.
(3) WASHABLE FACTORY STANDARD PRE-FILTER ON RETUREN AND O/A INTAKE SIDE OF CROSS PLATE CORE.

FAN SCHEDULE

EQUIPMENT NUMBER	TF-1
SERVICE	
AREA	ELEC/COMM.
SYSTEM	VENTILATION
FAN	
FAN TYPE	INLINE
DRIVE TYPE	DIRECT
SERVICE CONDITIONS	
CAPACITY-CFM	200
EXTERNAL STATIC PRESSURE	0.4"
MAX. SPEED-RPM	1260
INLET TEMP-°F	78
CONTROL	ECM
NOISE REQUIREMENTS	
SONES	1.4
MOTOR	ECM
HORSEPOWER (WATTS)	(57W)
SPEED-RPM	1154
ELECTRICAL	
V/ø/Hz	115/1/60
MANUFACTURER-DESIGN BASIS	PANASONIC
MODEL	FV-20NLF1
UNIT WEIGHT	19.1
NOTES	(1)
REMARKS	
(1) PROVIDE REVERSE-ACTING THERMOSTAT	

VERIFY SCALE

BAR MEASURES ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS DRAWING, ADJUST SCALES ACCORDINGLY.

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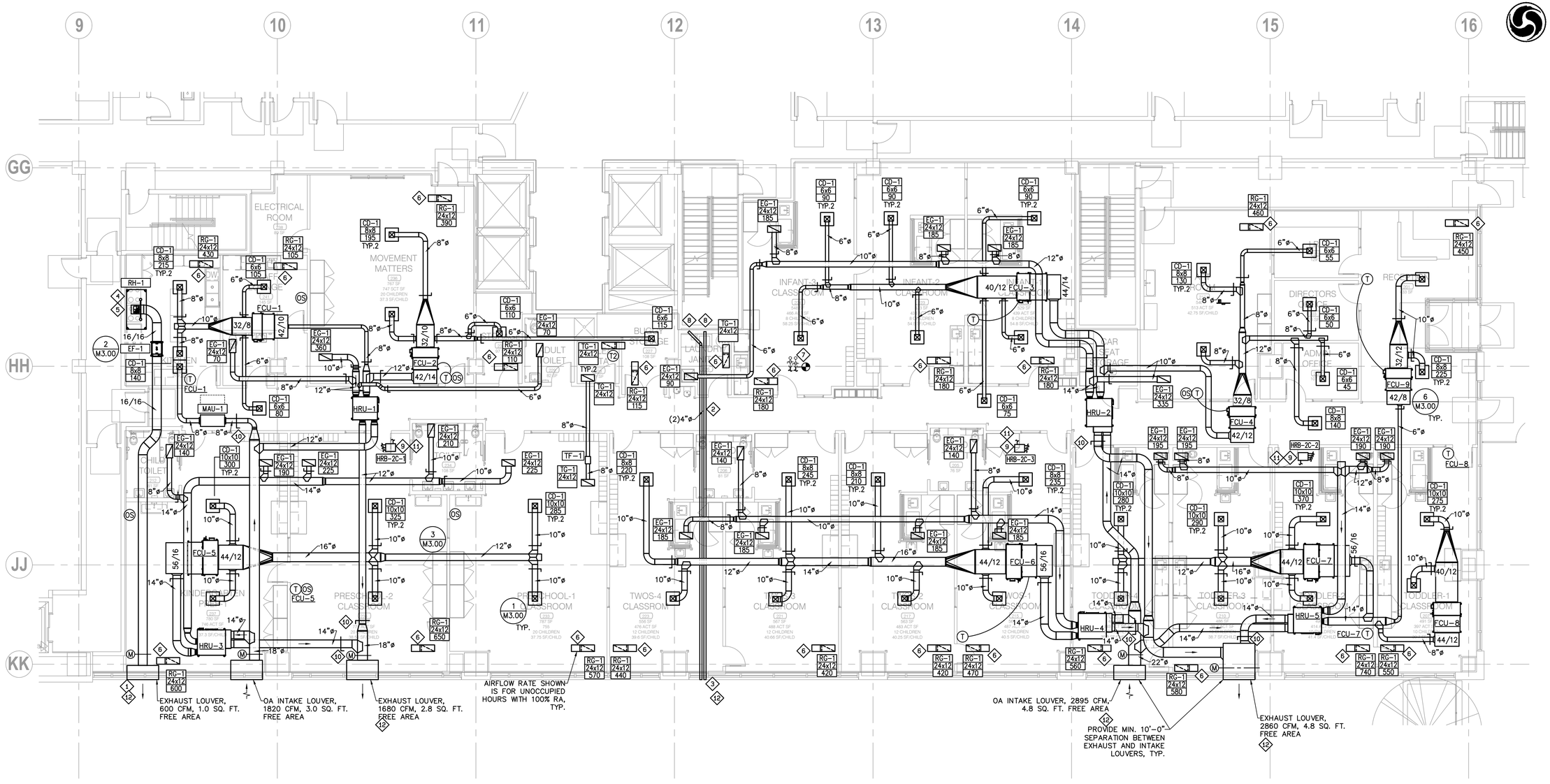
HVAC SCHEDULES
AND CALCULATIONS

SCALE: AS NOTED
DRAWN: BAQ
CHECKED: BWR
PROJECT NO: 2016-084

M0.02



HVAC PLAN

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

SHEET NOTES

1. TYPE 2 HOOD EXHAUST TERMINATION PER SMC 506.4.2, 3' FROM BUILDING OPENINGS, 10' ABOVE GRADE, 10' FROM PROPERTY LINES.
2. DRYER VENT ROUTING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER INSTRUCTIONS AND PER SMC SECTION 504
3. DISCHARGE CLOTHES DRYER EXHAUST THROUGH LOUVER. REMOVE ALL BUG/BIRD SCREENS FROM LOUVER IN AREA OF DISCHARGE. PROVIDE ACCESSIBLE GRAVITY BDD AT POINT OF CONNECTION TO PLENUM. SELECT DRYER SHALL BE CAPABLE OF MINIMUM 100' EQUIVALENT DUCT DISCHARGE LENGTH
4. PERMANENT PLAQUE TO BE MOUNTED ON HOOD. PLAQUE WILL STATE – "TYPE II HOOD SYSTEM, NO GREASE LADEN FOOD ALLOWED TO BE COOKED UNDER THIS HOOD".
5. TYPE 2 RANGE HOOD, CAPTIVE AIRE 3612, VHB–G, MIN. 24 GAUGE. DOMESTIC COOKING APPLIANCES FOR DAY CARE, BOILING, STEAMING AND WARMING PRECOOKED FOODS ONLY. PER WSMC TABLE 507.1.2, TYPE II HOOD IS ALLOWED. REFER TO DETAIL 4/M3.00.
6. SOUND–LINED 24"x12"RETURN DUCT INTO PLENUM SPACE. MIN. 18" LONG. REFER TO DETAIL 5/M3.00. CREATES COMMUNICATING SPACES PER IMC 1104.4.3 BASED ON REFRIGERANT SYSTEM VOLUME. IN ADDITION, DURING OPERATING HOURS, FANS CAN NOT OPERATE BELOW 25% AIRFLOW PER IMC 1104.4.2.
7. TIE IN TO EXISTING VRF PIPING. REFER TO SHELL DWG. M42.2.
8. 4" DUCT DOWN TO CLOTHES DRYER.
9. SEE REFRIGERANT SCHEMATIC DIAGRAM FOR PIPING INFORMATION.
10. PROVIDE GRAVITY BACKDRAFT DAMPER.
11. FIELD–ROUTE GAS & LIQUID REFRIGERANT PIPING BETWEEN HRB–2C–X & FC–X.
12. COORDINATE EXACT SIZE, LOCATION AND CONFIGURATION OF LOUVER WITH SHELL ARCHITECT.

GENERAL NOTES

1. ALL DUCTWORK ELBOWS AND OFFSETS SHALL HAVE MIN. 1.5x RADIUS ELBOWS OR TURNING VANES.
2. PROVIDE MANUAL BALANCING DAMPERS FOR ALL AIR INLETS AND OUTLETS.

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KIRKLAND, WA 98033

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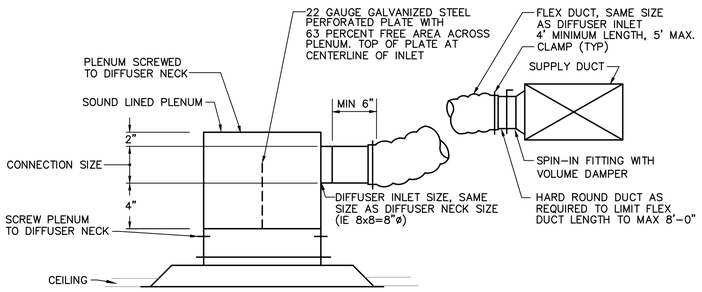
HVAC PLAN

SCALE:	AS NOTED
DRAWN:	BAQ
CHECKED:	BWR
PROJECT NO:	2016–084

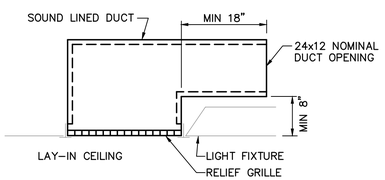
M1.00



NOTE:
SET DIFFUSER FOR FOUR-WAY HORIZONTAL FLOW UNLESS AIR FLOW INDICATED ON DRAWINGS

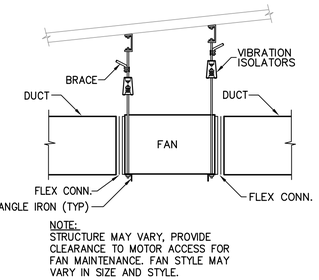
1 M3.00 TYPICAL CEILING DIFFUSER DETAIL

NOT TO SCALE



5 M3.00 TYPICAL RETURN GRILLE DETAIL

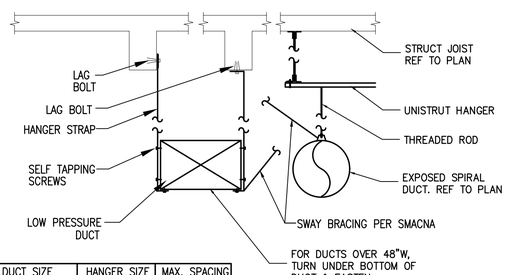
NOT TO SCALE



NOTE:
STRUCTURE MAY VARY, PROVIDE CLEARANCE TO MOTOR ACCESS FOR FAN MAINTENANCE. FAN STYLE MAY VARY IN SIZE AND STYLE.

2 M3.00 IN-LINE FAN MOUNTING DETAIL

NOT TO SCALE

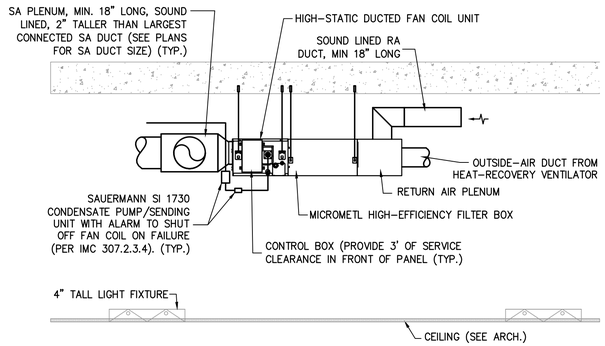


DUCT SIZE	HANGER SIZE	MAX. SPACING
UP THRU 2 SQ.FT.	1" x 1/16"	8'-0"
2 THRU 4 SQ.FT.	1" x 1/8"	8'-0"
4 THRU 10 SQ.FT.	1" x 1/8"	6'-0"
OVER 10 SQ.FT.	1" x 1/8"	4'-0"

SUPPORT METHODS SHALL COMPLY WITH MINIMUM SMACNA STANDARDS

3 M3.00 DUCT HANGING DETAIL

NOT TO SCALE



SEE PLANS AND EQUIPMENT SCHEDULE FOR EXACT DUCT SIZES AND CONFIGURATION

6 M3.00 DUCTED FAN COIL DETAIL

NOT TO SCALE

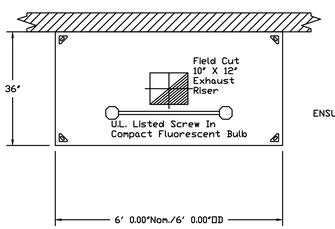
HOOD INFORMATION – Job#2604960

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S) TOTAL EXH. CFM	WIDTH	LENG.	DIA.	CFM	S.P.	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	HOOD CONFIG. ROW
1		3612 VHB-G	6' 0.00"	700 Deg.	900	10"	12"		900	-0.098"	304 SS 100%	ALONE	ALONE

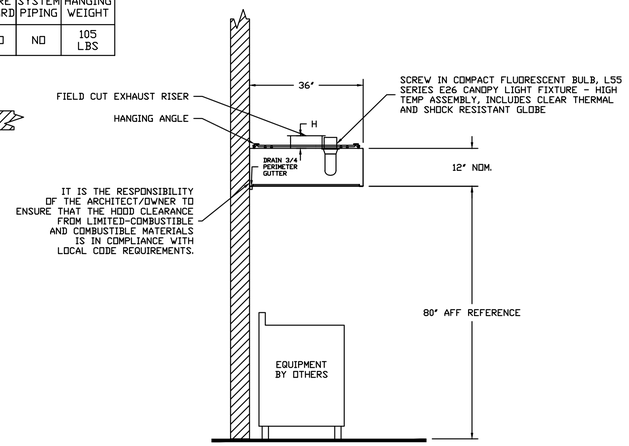
HOOD INFORMATION

HOOD NO.	TAG	LIGHT(S) QTY.	LIGHT(S) TYPE	LIGHT(S) WIRE GUARD	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH-1	2	Screw In Compact	NO	NO	105 LBS

KH-1



PLAN VIEW – Hood #1
6' 0.00" LONG 3612VHB-G



SECTION VIEW – MODEL 3612VHB-C HOOD – #1

Hood No.	H Riser(s) Height
1	4

4 M3.00 KITCHEN HOOD DETAIL

NOT TO SCALE

EXHAUST FAN INFORMATION – Job#2604960

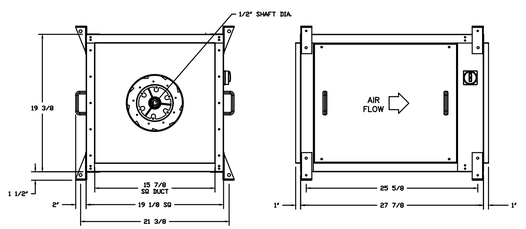
FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1		SIF11DD	900	0.720	1667	0.500	0.4160	1	115	5.6	120	13.1

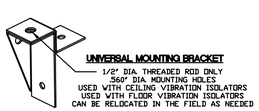
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - SIF11 - Straight discharge. Square Duct Connection.
		1 - SIF11 - Inlet -Square Duct Connection
		1 - SIF - Horizontal Overhead Mount - Pre-Installed Mounts
		1 - Motorized I 15 BDD 120/240V
		1 - Hanging Spring Vibration Isolators (Set of 4), For Indoor or Outdoor use with Square Inline fans.
		1 - ECM Wiring Package-Exhaust Fans - Manual Speed Control.

PROVIDE ECM MOTOR

FAN #1 SIF11DD - EXHAUST FAN





FEATURES:

- TWO ACCESS DOORS FOR EASY ACCESS
- BACKWARD INCLINED NON-OVERLOADING WHEELS
- UL705 LISTING
- AMCA AIR & SOUND CERTIFIED
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- DISCONNECT SWITCH

OPTIONS

SIF11 - STRAIGHT DISCHARGE. SQUARE DUCT CONNECTION.
SIF11 - INLET -SQUARE DUCT CONNECTION
SIF - HORIZONTAL OVERHEAD MOUNT - PRE-INSTALLED MOUNTS
MOTORIZED I 15 BDD 120/240V
HANGING SPRING VIBRATION ISOLATORS (SET OF 4), FOR INDOOR OR OUTDOOR USE WITH SQUARE INLINE FANS.
ECM WIRING PACKAGE-EXHAUST FANS - MANUAL SPEED CONTROL.

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M3.00

2015 WSEC COMPLIANCE REQUIREMENTS

MECHANICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO COMPLY WITH THE 2015 WSEC (SEE PARTIAL LIST OF REQUIREMENTS BELOW)

2015 NREC PARAGRAPH NO.	CODE PROVISION	INFORMATION REQUIRED	ADDITIONAL REQUIREMENTS	LOCATION IN DOCUMENTS
Equipment - Sizing, Performance and Type				
C403.2.1	Load calculations	Load calculations Shall be performed per ASHRAE Std 183 or equivalent, using design parameters per C302 and Appendix C with load adjustments to account for energy recovery		See Attached Calculations
C403.2.2	Equipment and system sizing	Output capacities of heating and cooling equipment and systems are no greater than the smallest available equipment size that exceeds the calculated loads.		See Attached Calculations and Equipment Schedules on Drawings
"C403.2.3 C403.2.3.2 C403.2.13.1"	HVAC equipment performance requirements (efficiency)	Equipment shall meet the minimum efficiency requirements of Tables C403.2.3(1), C403.2.3(2), C403.2.3(3), C403.2.3(4), C403.2.3(5), C403.2.3(6), C403.2.3(7), C403.2.3(8) and C403.2.3(9).		See Equipment Schedules on Drawings, Note: Outdoor condensing heat pump equipment is by shell and not part of this permit.
"C405.8 C403.2.14"	Electric motor efficiency	All electric motors (unless exception applies), fractional or otherwise, shall meet the minimum efficiency requirements of Tables C405.8(1) through C405.8(4) when tested and rated in accordance with DOE 10 CFR.		See Equipment Schedules on Drawings
		Fractional hp motors (1/12 - 1 hp) shall be electronically commutated or have rated efficiency of at least 70%, unless exception taken		See Equipment Schedules on Drawings
C403.2.4.3	Outdoor supply air, exhaust and relief dampers	Provide OSA intake, exhaust and relief outlet Class 1 motorized dampers with maximum leakage rate of 4 cfm/sq. ft. at 1.0" w.c. per AMCA 500D	Exception for Gravity (nonmotorized) dampers for relief air application on systems less than 5,000 cfm < 3 stories and Group R exhaust <=400 cfm.	
HVAC System Controls				
C403.2.4.1	"Thermostatic controls (thermostats and humidistats)"	Indicate locations of thermostatic and humidity control devices and the zones they serve on plans, including perimeter system zones		SEE PLANS
		Where adjacent (neighboring) zones are controlled by separate thermostats (including perimeter systems used to offset heat gain or loss), and are connected by permanent openings > 10% of either zone sf area, controls shall be configured to prevent adjacent zones from operating in conflicting modes (one in heat, other in cool); applies to adjacent perimeter zones, adjacent nonperimeter zones, and adjacent perimeter and nonperimeter zones	NA TO THIS PROJECT	
		If applying Exception 2 to nonperimeter zones adjacent to perimeter zones, setpoints and deadband settings in these zones shall be coordinated so cooling in a nonperimeter zone does not occur until the temperature in that zone is 5°F higher than the adjacent perimeter zone temperature in heating	NA TO THIS PROJECT	
C403.2.4.1.2	Deadband	Provide zone thermostatic controls configured with 5°F minimum deadband for systems that control both heating and cooling.		SEE SEQUENCE OF OPERATION
"C403.2.4.2 C403.2.4.2.1 C403.2.4.2.2"	Automatic setback and shutdown	Provide zone thermostatic controls configured with required automatic setback and manual override functions, setback temperatures, and control method (automatic time clock or programmable controls).		SEE SEQUENCE OF OPERATION
C403.2.4.2.3	Automatic (optimum) start	System controls shall adjust equipment start time required to bring each area served up to design temperature just prior to scheduled occupancy		SEE SEQUENCE OF OPERATION
C403.2.4.3	Outdoor supply air dampers	Automatic controls shall be configured to close OSA damper during unoccupied equipment operation (not including economizer cooling, night flush or IMC required OSA / exhaust).		SEE SEQUENCE OF OPERATION
"C403.2.6 C403.2.11.4"	Ventilation	Mechanical ventilation systems shall be configured to provide not more than 150% of, but at least the minimum required volume of outdoor air to each zone per IMC, ASHRAE 62.1 or other applicable code (WAC, OSHA, etc.)		See Attached Calculations
C403.2.6.3	Occupancy sensors	Gyms, classrooms, auditoriums and conference rooms > 500 sf, Shall have occupancy-based OSA control when space is unoccupied and method (closes OSA damper or shuts-off equipment); or alternate means provided to automatically reduce OSA when space is partially occupied		SEE SEQUENCE OF OPERATION
C403.2.7.1	Kitchen exhaust hoods	Provide calculations that show a balanced accounting of total kitchen exhaust (include all hoods) with % of: supply air, transfer air from adjacent spaces, and make-up air; if applicable, indicate that direct make-up air to each hood does not exceed 10% of hood exhaust		SEE CALCULATIONS ON PLANS
		Kitchens with total hood exhaust exceeding 2,000 cfm, shall have exhaust air rate per Table C403.2.7.1 and compliance method (DCV, energy recovery, or transfer air that would otherwise be exhausted)		

2015 WSEC COMPLIANCE REQUIREMENTS

MECHANICAL SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO COMPLY WITH THE 2015 WSEC (SEE PARTIAL LIST OF REQUIREMENTS BELOW)

2015 NREC PARAGRAPH NO.	CODE PROVISION	INFORMATION REQUIRED	ADDITIONAL REQUIREMENTS	LOCATION IN DOCUMENTS
Ducting Systems				
"C403.2.8.1 C403.2.8.3"	Duct construction	Ductwork shall be constructed and sealed per IMC		SEE PLANS. ALL DUCTWORK IS LOW PRESSURE
		OSA ductwork shall meet air leakage requirements per C402.5 and vapor retarder requirements per the IBC		
C403.2.8.3	Duct pressure classifications	Identify location of low, medium and high pressure ductwork on plans		SEE PLANS.
"C403.2.8.1 C403.2.8.2"	Duct insulation	Supply and return ductwork located in unconditioned space or outdoors, indicate R-value of insulation on ductwork on plans; identify climate zone; note exceptions taken	SA/RA ducts insulated to R-6 in unheated spaces and R-8 outdoors (except R-12 climate zone 5).	
		Supply ductwork located in conditioned space with design supply temperature is < 55°F or > 105°F shall have R3.3 unless exposed in space		
		For OSA ductwork, shafts and plenums, indicate R-value of insulation on these elements on plans per Table C402.1.3 for steel-framed walls; note exception taken	OSA DUCTS <2,800 CFM R-7, larger cfm values insulated per building envelope upstream of motorized intake damper.	
Piping Systems				
C403.2.9	Piping insulation	Indicate design temperature range of fluid conveyed in piping and thickness of insulation (in inches) on hydronic piping plans; or exception taken	Piping insulation shall comply with Table C403.2.9.	
Documentation and System Specific Requirement To Support Commissioning				
C408.2	Scope of mechanical systems commissioning	All mechanical systems, equipment, and controls for which the WSEC requires control functions and / or configuration to perform specific functions shall be commissioned		
		Buildings with ? 240,000 Btu/h total output cooling capacity or ? 300,000 Btu/h total output heating capacity, shall have all mechanical systems regardless of individual capacity commissioned; or provide building heating / cooling capacity calculation demonstrating eligibility for exception		
"C403.2.10 C408.1.1 C408.1.2 C408.1.4.2 C103.6"	Commissioning requirements in construction documents	Cx per C408 is required for all applicable mechanical systems;		
		Provide a general summary with at a minimum of Items 1 thru 4 of the Cx plan per C408.1.2 including: narrative description of activities, responsibilities of the Cx team, schedule of activities including verification of project close out documentation per C103.6, and conflict of interest plan.		
		A Cx project report or Compliance Checklist (Figure C408.1.4.2) shall be completed by the Certified Cx Professional and provided to the owner prior to the final mechanical inspection.		
C408.2.2	Air system and hydronic system balancing	Air and fluid flow rates shall be tested and balanced within the tolerances defined in the specifications; Systems shall be balanced in a manner to first minimize throttling losses, then adjusted to meet design flow conditions		
C408.2.2.1	Air system balancing devices	Provide devices that provide the capability to balance all supply air outlets, zone terminals and air handling equipment requiring system balancing		
C408.2.3	Functional performance testing criteria	Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems		
Project Close Out Documentation				
C103.6	Documentation and project close out submittal requirements	Provide project close out documentation and training of building operations personnel as required for all mechanical components, equipment and systems governed by this code. close out documentation shall include: record documents, O&M manuals, applicable WSEC compliance forms and calculations		

VERIFY SCALE

BAR MEASURES ONE INCH ON ORIGINAL DRAWING

0" 1"

IF NOT ONE INCH ON THIS DRAWING, ADJUST SCALES ACCORDINGLY.

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WEC
COMPLIANCE FORMS

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M3.01

BNR18-00430
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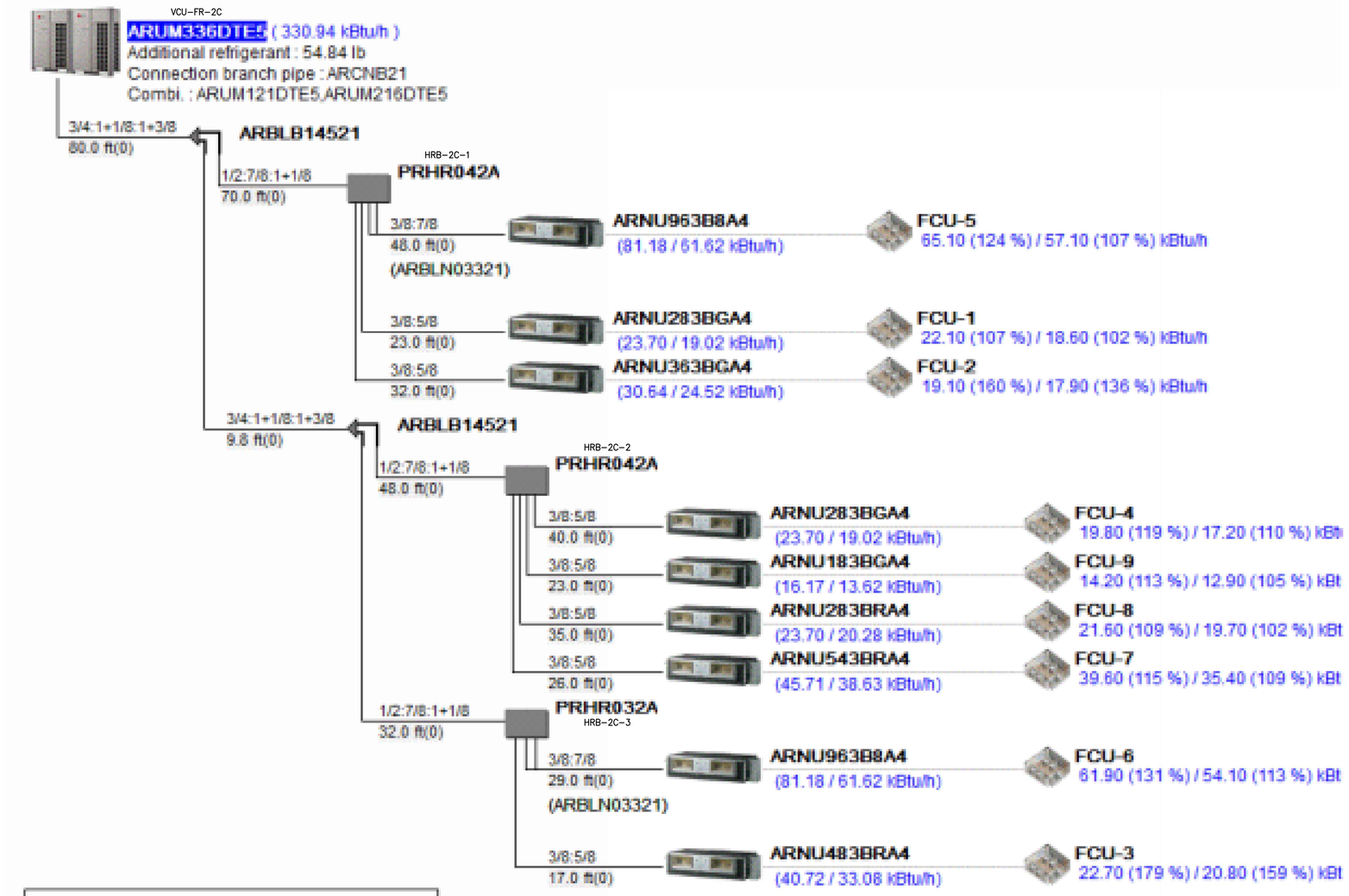

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PIPING DIAGRAM

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M3.02

GENERAL PLUMBING NOTES

1. THE FOLLOWING NOTES APPLY TO ALL PLUMBING DRAWINGS. ADDITIONAL PLUMBING NOTES MAY BE INDICATED ON EACH PLUMBING DRAWING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. INSTALLATION SHALL COMPLY WITH ALL GOVERNING CODES AND REGULATIONS (LOCAL AND STATE). NOTHING ON THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS ALLOWING DEVIATION FROM THIS REQUIREMENT. IF A CONFLICT SHOULD OCCUR BETWEEN DRAWINGS AND REGULATIONS, THE REGULATIONS SHALL TAKE PRECEDENT AND CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF SUCH CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION.
3. INSTALL ALL WASTE LINE CLEANOUTS IN ACCORDANCE WITH CHAPTER SEVEN OF THE UNIFORM PLUMBING CODE:
   A. 3" WASTE PIPE – 3" CLEANOUT WITH 2.5" PLUG
   B. 4" WASTE PIPE – 4" CLEANOUT WITH 3.5" PLUG
   C. 6" WASTE PIPE – 4" CLEANOUT WITH 3.5" PLUG
4. WASTE, VENT AND SUPPLY PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SHALL BE AS SHOWN ON PLUMBING FIXTURE SCHEDULES. BELOW GRADE SANITARY WASTE PIPING SIZES SHALL BE AS SHOWN ON PLANS AND FIXTURE SCHEDULES AND SHALL NOT BE LESS THAN 2" DIAMETER.
5. ALL SANITARY SEWER PIPING BELOW SLAB SHALL BE INSTALLED AT A MINIMUM OF 1/4" PER FT SLOPE UNLESS APPROVAL IS PROVIDED BY THE "ADMINISTRATIVE AUTHORITY" IN WRITING FOR A SHALLOWER SLOPE. IN NO CASES SHALL SEWER PIPING BE INSTALLED AT LESS THAN 1/8" PER FT SLOPE. IN NO CASES WILL PIPING SMALLER THAN 4" BE INSTALLED AT SLOPES SHALLOWER THAN 1/4" PER FOOT. PIPING INSTALLED AT 1/8"/FT SHALL BE RESIZED PER CHAPTER 7 OF THE UNIFORM PLUMBING CODE AND SUPPORTING CALCULATION SUBMITTED TO ENGINEER FOR REVIEW.
6. PROVIDE STOPS PRIOR TO ALL PLUMBING EQUIPMENT. THIS SHALL ALSO INCLUDE PROVIDING INTEGRAL STOPS ON ALL SHOWER AND TUB/SHOWER VALVES (WHETHER SPECIFIED OR NOT). PROVIDE WASTE TRAPS AT ALL DIRECT CONNECTED EQUIPMENT IN ACCORDANCE WITH CODE AND THE SPECIFICATIONS.
7. PROVIDE TRAP PRIMERS AT ALL FLOOR DRAINS UNLESS NOTED OTHERWISE. PROVIDE UNION ON UPSTREAM AND DOWNSTREAM SIDE OF ALL TRAP PRIMERS. TRAP PRIMER BRANCH TAKEOFF SHALL BE FROM TOP OF MAIN DISTRIBUTION PIPE.
8. INSULATE P-TRAPS EXPOSED IN UNHEATED SPACES.
9. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE ROUGH-IN DIMENSIONS AND OTHER DETAILS. ALSO SEE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS OF ALL PLUMBING FIXTURES INCLUDING REQUIREMENTS FOR FLUSH LEVER LOCATION AT ADA COMPLIANT TOILETS AND VALVE LOCATIONS OF ADA SHOWERS. REPORT ALL DISCREPANCIES TO ENGINEER PRIOR TO ANY WORK.
10. REFER TO ARCHITECTURAL DRAWING FOR ROOM ELEVATIONS. LOCATE PLUMBING FIXTURES AT HEIGHTS SHOWN ON ARCHITECTURAL ROOM ELEVATIONS.
11. PLUMBING DRAWINGS SHOW APPROXIMATE LOCATIONS OF PLUMBING FIXTURES. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS. COORDINATE FLOOR DRAINS FOR MECHANICAL EQUIPMENT WITH EQUIPMENT BEING SERVED.
12. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
13. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT (VOLTAGES, ETC.).
14. ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITTAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEVIATE FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO PROPERLY SERVE EQUIPMENT.
15. SECURE WATER HEATERS AND STORAGE TANKS AND PLUMBING EQUIPMENT TO STRUCTURE AS REQUIRED BY CODE. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL SPECIAL REQUIREMENTS RELATED TO THE PLUMBING INSTALLATION.
16. PROVIDE PLUMBING ANCHORAGE AND EXPANSION EVERY 100' PIPE LENGTH PER CODE.
17. ACCESS PANELS ARE REQUIRED AT ALL CONCEALED VALVES AND EQUIPMENT. COORDINATE LOCATION AND SIZE WITH ARCHITECT.
18. STUB OUT TO SITE SERVICES 5' OUTSIDE BUILDING FOUNDATION. PIPE SIZE, FIXTURE UNITS, AREA DRAINED, INVERT ELEVATION, SIZES, AND SQUARE FOOTAGES AS INDICATED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
19. INSULATE PIPING PER WSEC AND PER DIVISION 22 SPECIFICATIONS (WHICHEVER IS GREATER).
20. GENERALLY DUCTWORK PLANNED TO BE TIGHT TO STRUCTURE WITH PIPING BELOW DUCTWORK AND BETWEEN LIGHT FIXTURES. ADJUST AS NECESSARY.
21. PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" IF RUNNING PARALLEL AND ABOVE CABLE TRAYS, ALLOW 18" TO THE SIDE OF CABLE TRAYS.
22. COORDINATE LOCATIONS OF PLUMBING EQUIPMENT TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND SERVICE ACCESS DUE TO EQUIPMENT MAINTENANCE.
23. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
24. PROVIDE FABRICATED STEEL MEMBER SUPPORTS AS REQUIRED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS, AS INDICATED ON DRAWINGS, OR IN SPECIFICATIONS FOR INSTALLATION OF EQUIPMENT. REQUIRED STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE IN ACCORDANCE WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL.
25. IF REQUIRED FOR INSTALLATION OF PIPES AND EQUIPMENT, PROVIDE ADDITIONAL STRUCTURAL MEMBERS BETWEEN COLUMNS, JOISTS, AND STRUCTURAL FRAME TO MEET SUPPORT REACTIONS (FORCES, MOMENTS, DEFLECTIONS). STRUCTURAL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
26. DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS, AND SHEAR WALLS, UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
27. PIPES INDICATED WITHOUT DIMENSIONS SHALL BE SIZED PER PRECEDING UPSTREAM PIPE SECTIONS.
28. DRAWINGS ARE SCHEMATIC IN SOME AREAS AND MAY NOT SHOW PIPING OFFSETS WHICH MAY BE REQUIRED.
29. PATCH ALL FLOOR, WALL, CEILING AND ROOF OPENINGS CREATED/CAUSED BY THE DEMOLITION OF EXISTING PIPES, FIXTURES, ETC. IN ACCORDANCE WITH DIVISION 1 OF THE SPECIFICATIONS.
30. ALL WATER PIPING IN UNHEATED SPACES EXCEPT CIRCULATED HOT WATER SHALL BE HEAT TRACED AND INSULATED.
31. WHERE PIPE SIZES ARE NOT SHOWN ON DRAWINGS, SIZE PIPING PER THE UNIFORM PLUMBING CODE.
32. PRIOR TO SUBMITTING ALL PLUMBING FIXTURES THE CONTRACTOR SHALL VERIFY COMPATIBILITY OF THE SPECIFIED FIXTURE WITH THE SIZES OF FINISH CABINETRY AS IDENTIFIED IN GENERAL CONTRACTOR'S SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN THE SIZE OF THE FIXTURES SPECIFIED AND THE FINISH CABINETRY SIZES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE SUBMITTAL.
33. PLUMBING VENTS SHALL TERMINATE A MINIMUM 10' FROM OUTSIDE AIR INTAKES, PER CODE.
34. LABEL ALL PIPING SYSTEMS PER THE IMC AND UPC.
35. SUPPORT AND BRACE PIPING SYSTEMS IN ACCORDANCE WITH UPC SECTION 314 AND AS REQUIRED IN THE SPECIFICATIONS.
36. TEST HYDRONIC PIPING PER IMC 1208.
37. ALL MATERIALS IN CONTACT WITH PIPING SYSTEMS SHALL BE COMPATIBLE FOR USE WITH AND FOR CONTACT WITH THE PIPING MATERIAL. CONTRACTORS AND TRADES SHALL VERIFY COMPATIBILITY OF THEIR PRODUCTS WITH THE PIPING SYSTEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, FIRE STOPPING SEALANTS, FIRE STOPPING COLLARS, VIBRATION ISOLATION ELEMENTS, THERMAL INSULATION, EXPANSION JOINTS AND ANY MATERIAL IN CONTACT WITH PIPES.
38. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL.
39. PIPE BURIAL METHODS FOR BELOW GRADE PIPING SHALL COMPLY WITH MFR INSTALLATION INSTRUCTIONS, ASTM D 2321 AND ASTM F1668. FAILURE TO FOLLOW THESE REQUIREMENTS CAN LEAD TO PIPE FAILURE.
40. ROOF MOUNTED PIPING SHALL BE INSTALLED ON FREE FLOATING, PREFABRICATED SUPPORTS SIMILAR TO MIRO MODEL 24-R OR ROOF TOP BLOX ON WALKWAY TREAD PADS. THE USE OF WOOD FOR SUPPORTS IS PROHIBITED.
41. ALL ITEMS IN CONTACT WITH POTABLE WATER SHALL COMPLY WITH THE NATIONAL "REDUCTION OF LEAD IN DRINKING WATER ACT" S.3874.

PLUMBING LEGEND

SYMBOL / DESCRIPTION

PIPING

- FLOW ARROW
- CAP OR CLEANOUT
- PIPE UP OR TEE UP AND DOWN
- PIPE DOWN
- PIPE TEE UP
- PIPE TEE DOWN
- 45° DEGREE ELBOW
- 90° DEGREE ELBOW
- 4 WAY TEE
- TEE
- PIPE BREAK

VALVES

- BALANCING VALVE
- PRESSURE REGULATING VALVE
- PRESSURE REDUCING VALVE (PRV)
- BALL VALVE
- GATE VALVE
- GAS COCK
- RELIEF VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- REDUCED PRESSURE BACKFLOW ASSEMBLY
- BALANCING/MEASURING VALVE

PLUMBING LEGEND

SYMBOL / DESCRIPTION

PIPING SPECIALTIES

- PRESSURE GAGE
- THERMOMETER
- SIGHT GLASS
- VENTURI FLOW METER
- FLOW METER
- MANUAL AIR VENT (MAV)
- GAS PRESSURE REGULATOR
- WATER METER
- WYE STAINER
- WYE STAINER WITH CAPPED HOSE END BLOWDOWN VALVE
- FLANGE
- UNION
- ECCENTRIC REDUCER
- HOSE BIBBS
- HOSE BIBB/WALL HYDRANT
- PIPE ANCHOR
- ALLIGNMENT GUIDE
- TS — TEMPERATURE/PRESSURE TEST PORT
- FLEXIBLE CONNECTION IN PIPING
- FUNNEL

PLUMBING LEGEND

SYMBOL / DESCRIPTION

GENERAL

- NORTH — NORTH ARROW
- A / M201 — SECTION IDENTIFICATION
- SHEET IDENTIFICATION
- SHEET NOTES
- RISER CALLOUT, RISER-1
- WC 1 — PLUMBING FIXTURE TAG, WC-1
- REVISION CALLOUT, REV-1
- REVISION BUBBLE
- 1 / P2.05 — DETAIL CALLOUT
- A, 6 — COLUMN GRID SYMBOLS
- GENERAL MECHANICAL NOTES NUMBER IDENTIFICATION
- FLAG MECHANICAL NOTES NUMBER IDENTIFICATION
- EXISTING WORK OR BACKGROUND INFORMATION (LIGHT LINE)
- NEW WORK (HEAVY LINE)
- PMP-1 — TYPICAL EQUIPMENT DESIGNATION (PUMP SHOWN)
- POINT OF CONNECTION TO EXISTING

WATER PIPING SYSTEMS

- WS — WATER SERVICE
- CWF — COLD WATER FILTERED
- COLD WATER (ABOVE FLOOR/GRADE)
- HOT WATER (ABOVE FLOOR/GRADE) (120° F TEMPERED WATER IF NOT INDICATED OTHERWISE)
- 140 — HIGH TEMP HOT WATER 140° OR AS INDICATED
- HOT WATER CIRCULATING
- NP — NON POTABLE WATER
- M — WATER METER

DRAIN WASTE & VENT PIPING

- WASTE (ABOVE FLOOR) PIPING
- VENT
- GW — GREASE WASTE
- C — CONDENSATE DRAIN
- P — PUMPED PIPING
- FCO — FLOOR CLEANOUT (FCO)
- WCO — WALL CLEANOUT (WCO)
- VTR — VENT THRU ROOF
- FLOOR DRAIN
- FLOOR SINK

ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AC	AIR CONDITIONING
ABV	ABOVE
AD	ACCESS DOOR
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFUE	ANNUALIZED FUEL EFFICIENCY
AHU	AIR HANDLING UNIT
AL	ALUMINUM
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ATMOS	ATMOSPHERE
BATT	BATTERY
BDD	BACK DRAFT DAMPER
BF	BLIND FLANGE
BFC	BELOW FINISHED CEILING
BHP	BRAKE HORSE POWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CHAR	CHARACTERISTICS
CHEM	CHEMICAL INJECTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CLG	CEILING
CO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECT OR CONNECTION
CPLG	COUPLING
CS	CARBON STEEL
CSC	CARSEALED CLOSED
CSO	CARSEALED OPEN
CV	CONSTANT VOLUME
CW	COLD WATER
CRD	CEILING RADIATION DAMPER
DET	DETAIL
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DI	DUCTILE IRON
DMPR	DAMPER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DR	DRAIN
DWG	DRAWING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
ECC	ECCENTRIC
ECON	ECONOMIZER
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENT, EFFICIENCY
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ET	ELECTRIC TRACED
EXIST,(E)	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
F	FAHRENHEIT
FD	FIRE DAMPER OR FLOOR DRAIN
FF	FINISHED FLOOR
FLGD	FLANGED
FLR	FLOOR
FCO	FLOOR CLEAN OUT
FPM	FEET PER MINUTE
FLTR	FILTER
FOF	FACE OF FLANGE
FPI	FINS PER INCH
FSK	FOIL SKRIM KRAFT LINED DUCT (SPUNSTRAND)
FT	FEET, FOOT
FU	FIXTURE UNITS
FV	FACE VELOCITY
FW	FEED WATER
FPTU	FAN POWERED TERMINAL UNIT
G	GAS
GALV	GALVANIZED
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GR	GRILLE
GPM	GALLONS PER MINUTE
GV	GATE VALVE
GW	GRAY WATER (NON POTABLE)
GWR	GLYCOL WATER RETURN
GWS	GLYCOL WATER SUPPLY
HP	HORSE POWER
HPFS	HIGH POINT FINISHED SURFACE
HR	HOUR
HTG	HEATING
HT	HEIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER CIRCULATING
HWS	HOT WATER HEATING SUPPLY
HWR	HOT WATER HEATING RETURN
IA	INSTRUMENT AIR
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IH	INSULATION HOT
IN	INCH, INCHES
INFO	INFORMATION
INST	INSTRUMENT
INSUL	INSULATE, INSULATION
INV	INVERT
IRR	IRRIGATION (NON POTABLE)
IU	INDOOR UNIT
JAN	JANITOR
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUND
LC	LOCKED CLOSED
LF	LINEAL FEET
LOC	LOCATION
LL	LANDLORD
LVG	LEAVING
MATL	MATERIAL
MA	MED GAS
MAX	MAXIMUM
MPG	MEDIUM PRESSURE GAS
MA	MIXED AIR
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCC	MOTOR CONTROL CENTER
MCA	MAXIMUM CIRCUIT AMPS
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MED	MEDIUM
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MV	MED VACUM
N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER OR NORMALLY OPEN
NG	NATURAL GAS
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OSA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OA	OUTSIDE AIR
OD	OUTSIDE DIMENSION
OPP	OPPOSITE
OV	OUTLET VELOCITY
OCP	OVER CURRENT PROTECTION
OU	OUTDOOR UNIT
P	PUMP
PD	PRESSURE DROP
PERF	PERFORATED
PF	PRE FILTER
PH	PHASE
PJ	PUSH ON JOINTS
PLCS	PLACES
PNL	PANEL
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PS	PIPE SUPPORT
PSV	PRESSURE SAFETY (RELIEF) VALVE
QTY	QUANTITY
R	RELIEF
RA	RETURN AIR
RED	REDUCER
REQD	REQUIRED
RR	REMOVE AND RELOCATE
RJ	RESTRAINED JOINTS
RET	RETURN
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
RWL	RAINWATER LEADER
SS	SANITARY SEWER
	STAINLESS STEEL
SA	SUPPLY AIR
SCHED	SCHEDULE
SECT	SECTION
SEER	SEASONAL ENERGY EFF. RATIO
SVC	SERVICE
SHT	SHEET
SD	SMOKE DETECTOR
SL	SOUND LINING
SV	SOLENOID VALVE
SW	SOCKET WELD
STA	STATION
STD	STANDARD
SF	SUPPLY FAN
SFD	SMOKE/FIRE DAMPER
S.I.O.	SUPPLIED AND INSTALLED BY OWNER/OTHER
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SYS	SYSTEM
STAT	THERMOSTAT
TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENTIAL
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
THRU	THROUGH
TI	TENANT IMPROVEMENT
TSTAT	THERMOSTAT
TYP	TYPICAL
TRU	TERMINAL REHEAT UNIT
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UMC	UNIFORM MECHANICAL CODE
UP	UNIFORM PLUMBING CODE
UBC	UNIFORM BUILDING CODE
UPC	UNIFORM PLUMBING CODE
UG	UNDERGROUND
V	VOLT
VAC	VOLTS AC
VDC	VOLTS DC
VD	VOLUME DAMPER
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VF	VENTILATION FAN
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
VOL	VOLUME
V/PH/HZ	VOLTS/PHASE/HERTZ
W/	WITH
W/O	WITHOUT
W	WASTE
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTER
WT	WATER TANK
WT	WEIGHT
WTR, W	WATER

SHEET INDEX

SHEET NO.	TITLE
P0.01	PLUMBING SYMBOLS, NOTES & ABBREVIATIONS
P0.02	PLUMBING SCHEDULES & NOTES
P1.00	UNDERFLOOR PLUMBING PLAN
P2.00	MAIN LEVEL PLUMBING PLAN
P2.01	LEVEL 2 PLUMBING PLAN
P3.00	DETAILS

VERIFY SCALE

BAR MEASURES ONE INCH ON ORIGINAL DRAWING

0" — 1"

IF NOT ONE INCH ON THIS DRAWING, ADJUST SCALES ACCORDINGLY.

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City of Kirkland
Reviewed by Allaupt
06/21/2018

BRIAN W. ROETCISOENDER, STATE OF WASHINGTON, 30321, REGISTERED PROFESSIONAL ENGINEER
1/18/18

PERMIT SET	18 JAN 2018
PROGRESS SET	04 DEC 2017

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PLUMBING SYMBOLS, NOTES & ABBREVIATIONS

SCALE:	AS NOTED
DRAWN:	BAQ
CHECKED:	BWR
PROJECT NO:	2016-084

P0.01

PLUMBING EQUIPMENT CONNECTION SCHEDULE

SYMBOL	ITEM	WASTE	IW	VENT	CW	HW	SPECIFICATION	REMARKS
WC-1	WATER CLOSET – PRIVATE ADA HEIGHT FLUSH VALVE	3	–	2	1¼	–	KOHLER K-4405 KOHLER K-4660 WHITE SEAT SLOAN ROYAL 111-1.28	1.28 GPF
WC-2	WATER CLOSET – PRIVATE CHILD HEIGHT (10") FLUSH VALVE	3	–	2	1¼	½	AMERICAN STANDARD BABY DEVORO 10" BEMIS MODEL BB955C SEAT SLOAN ROYAL 111-1.28	1.28 GPF KOHLER K-4384 AS ALTERNATE
L-1	LAVATORY – WALL HUNG	1½	–	1½	½	½	KOHLER K-2031 MOEN 8884 JAY R. SMITH 0700 CONCEALED ARM CARRIER	SINGLE HANDLE LEVER CONTROL, 0.5 GPM WRAP TRAP AND HOT SUPPLY AT EXPOSED LOCATIONS
SK-1	CHANGING STATION SINK	2	–	1½	½	½	ELKAY LRAD2219 WITH FAUCET, ELKAY LK810HA08T4 3 HOLES	22"x19.5", 18 GAUGE, TYPE 304 S.S.
SK-2	HAND SINK	2	–	1½	½	½	ELKAY CHS1716 SS HAND SINK WALL MOUNT	14"x10"x5"D, 6" BACKSPLASH
SK-3	2-COMP. SINK	2	–	1½	½	½ 140°F	ADVANCE TABCO DTC-3-1620	16"x20"x12"D, 10" BACKSPLASH
SK-4	1-COMPARTMENT PREP SINK	–	2	1½	½	½ 140°F	ELKAY 1C24X24-R-24X 24" DRAIN BOARD, W/CHICAGO FAUCET #445-L12CP	24"x24"x12"D W/10" BACKSPLASH W/FOOD WASTE DISPOSER, SALVAJOR MODEL 100, 1 HP
SK-5	WASH/ART SINK	2	–	1½	½	½	KOHLER K-3202, 48" WIDE, WALL-MOUNT W/(2) CHICAGO BACK-MOUNT FAUCETS (225-261ABCP) OR KOHLER K-8892, K-8880 SOAP DISH, K-900 P-TRAP, K-8820 BRASS CONSTRUCTION DRAIN	(2) SETS OF BRASSCRAFT CR-1920-A-C QUART-TURN SUPPLIES, MOUNTING HEIGHT AS SHOWN ON PLANS
SK-6	KITCHEN SINK	2	–	1½	½	½	ELKAY LRAD2219 WITH LK810HA08T4 FAUCET 4 HOLES (FOR DW AIR GAP)	22"x19.5", 18 GAUGE, TYPE 304 S.S.
SK-7	STAFF LOUNGE SINK	2	–	1½	½	½	–	–
SK-8	CHILDREN'S HAND WASH SINK WALL HUNG @ CHILDREN'S HEIGHT	1½	–	1½	½	½	KOHLER K-2031, SEE ARCH. FOR EXACT MOUNTING HEIGHT MOEN 8884 JAY R. SMITH 0700 CONCEALED ARM CARRIER	SINGLE HANDLE LEVER CONTROL, 0.5 GPM WRAP TRAP AND HOT SUPPLY AT EXPOSED LOCATIONS
WB-1	CLOTHES WASHER CONNECTION RESIDENTIAL	2	–	1½	½	½ 140°F	SPECIAL PRODUCTS – METAL BOX SEE ARCHITECT FOR WASHER SPECIFICATIONS	PROVIDE FIRE WRAP WHEN LOCATED ON RATED WALL W/WATER HAMMER ARRESTERS ON H&C
DW-1	COMMERCIAL DISHWASHER CONNECITON	–	1½	1½	–	¾ 140°F	SEE ARCHITECT FOR SPECIFICATIONS	PROVIDE BACKFLOW PREVENTER
DW-2	RESIDENTIAL DISHWASHER CONNECTION	2	–	1½	–	½	SEE ARCHITECT FOR SPECIFICATIONS WASTE VIA AIRGAP FITTING TO ADJACENT SINK	–
SH-1	SHOWER ADA COMPLIANT	2	–	1½	½	½	AQUATIC MODEL 1363BFSC	36"x36"x75", PROVIDE HORIZONTAL L-SHAPE GRAB BAR, L-SHAPE FOLD-UP SEAT. PRESSURE-BALANCING MIXING VALVE, HAND-HELD SHOWER ASSEMBLY (OPPOSITE SEAT)
DF-1	DRINKING FOUNTAIN ADA COMPLIANT	2	–	1½	½	–	HALSEY TAYLOR CONTOUR BI-LEVEL MODEL HRFSEBP	–
MS-1	MOP SINK	3	–	1½	½	½ 140°F	E.L. MUSTEE 63M SPEAKMAN SC-5811-RCP FAUCET	24"x24"x10" INTEGRAL BRASS VACUUM BREAKER ON FAUCET
TSV-1	THERMOSTATIC MIXING VALVE	–	–	–	–	–	LEONARD MODEL TM-820, 40 GPM @ 10 PSIG ΔP 1" INLETS, 1¼ OUTLET	–

NOTE: ALL FIXTURE SELECTIONS ABOVE ARE PRELIMINARY. PROVIDE UNIT PRICING FOR ALL FIXTURES. VERIFY FINAL SELECTION WITH ARCHITECT.

2015 WSEC PROJECT REQUIREMENTS

PLUMBING SYSTEMS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2015 WSEC. THE FOLLOWING ARE SOME HIGHLIGHTS OF SOME OF THE REQUIREMENTS FOR DOCUMENTATION PURPOSES.

SECTION C403
MECHANICAL SYSTEMS
C404.2 SERVICE WATER-HEATING EQUIPMENT PERFORMANCE EFFICIENCY. WATER-HEATING EQUIPMENT AND HOT WATER STORAGE TANKS SHALL MEET THE REQUIREMENTS OF TABLE C404.2.

C404.3 EFFICIENT HEATED WATER SUPPLY PIPING. HEATED WATER SUPPLY PIPING SHALL BE IN ACCORDANCE WITH SECTION C404.3.1 OR C404.3.2.

C404.3.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD. THE MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HEATER WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE IN ACCORDANCE WITH TABLE C404.3.1.

C404.6 INSULATION OF PIPING. PIPING FROM A WATER HEATER TO THE TERMINATION OF THE HEATED WATER FIXTURE SUPPLY PIPE SHALL BE INSULATED IN ACCORDANCE WITH TABLE C403.2.9.

C404.7 HEATED-WATER CIRCULATING AND TEMPERATURE MAINTENANCE SYSTEMS. HEATED-WATER CIRCULATION SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION C404.7.1.

C404.7.1 CIRCULATION SYSTEMS. HEATED-WATER CIRCULATION SYSTEMS SHALL BE PROVIDED WITH A CIRCULATION PUMP. THE SYSTEM RETURN PIPE SHALL BE A DEDICATED RETURN PIPE OR A COLD WATER SUPPLY PIPE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.

C408.1 GENERAL. A BUILDING COMMISSIONING PROCESS LED BY A CERTIFIED COMMISSIONING PROFESSIONAL SHALL BE COMPLETED FOR MECHANICAL SYSTEMS IN SECTION C403, SERVICE WATER HEATING SYSTEMS IN SECTION C404, ELECTRICAL POWER AND LIGHTING SYSTEMS IN SECTION C405 AND ENERGY METERING IN SECTION C409.

C408.2 MECHANICAL SYSTEMS COMMISSIONING. MECHANICAL EQUIPMENT AND CONTROLS SUBJECT TO SECTION C403 SHALL BE INCLUDED IN THE COMMISSIONING PROCESS REQUIRED BY SECTION C408.1. THE COMMISSIONING PROCESS SHALL MINIMALLY INCLUDE ALL ENERGY CODE REQUIREMENTS FOR WHICH THE CODE STATES THAT EQUIPMENT OR CONTROLS SHALL "BE CAPABLE OF" OR "CONFIGURED TO" PERFORM SPECIFIC FUNCTIONS.

2015 UPC APPENDIX A WATER SERVICE CALCULATIONS

Cold Water Piping to be Sized Based on a **FV** System (FV=Flush Valve, FT = Flush Tank)
Hot Water Piping to be Sized Based on a **FT** System (FV =Flush Valve, FT = Flush Tank)

PIPE MAINS	FIX UNIT	GPM	SIZE
BUILDING SUPPLY	160	81	2.5
COLD WATER	160	81	2.5
HOT WATER	66	34	2"

STATIC WATER PRESSURE AT MAIN (PSI)	55.0	*
METER LOSS (PSI)	3.6	2-1/2" DIAMETER METER
BACKFLOW PRESSURE LOSS	14.0	
WATER PRESSURE AT BUILDING (PSI)	37.4	
BLDG SUPPLY PRESSURE FOR PIPE SIZING:	37.4	

COLD WATER PRESSURE LOSS:

ELEVATION CHANGE (PSI)		0 FEET AT 0.433 PSI/FT
MIN. RESIDUAL PRESS. AT REMOTE FIXT. (PSI)	30.0	25 PSIG + 5 PSIG FOR TSV-1
TOTAL PRESSURE LOSS:	30.0	
	37.4	
	– 30.0	
AVAILABLE PRESSURE (PSI)	7.4	
LONGEST PIPE RUN (FT)	260.0	7.41 X 100 FT
X 1.25 (FITTINGS) 1.25	325.0	325 FT

Friction Loss Not to Exceed 2.3 PSI/100FT LOSS
Size All Piping Based on a Friction loss of: **2** PSI/100FT LOSS
and max velocity based on installation standard.

* DYNAMIC PRESSURE AT POINT OF CONNECTION PROVIDED BY SHELL

PLUMBING CALCULATIONS

2015 UPC PLUMBING CODE — PER TABLE 702.1 AND TABLE A 103.1

BUILDING SUMMARY FIXTURE TYPE	MIN. SIZE TRAP/ARM IN.	QTY	DOMESTIC WATER WSFU PER FIXTURE	DOMESTIC WATER WSFU TOTAL	HW PER FIXTURE	TOTAL HW	SEWER DFU PER FIXTURE	SEWER DFU TOTAL
CLOTHES WASHER, DOMESTIC	2	1	4	4	3	3	3	3
DISHWASHER, DOMESTIC, INDEPENDENT DRAIN	1.5	7	1.5	10.5	1.5	10.5	2	14
DRINKING FOUNTAIN, WATER COOLER (ASSEMBLY)	1.25	2	0.75	1.5	– –	– –	1	2
FLOOR DRAIN – EMERGENCY	2	8	– –	– –	– –	– –	0	0
SHOWER, SINGLE	2	1	2	2	2	2	2	2
LAVATORY, SINGLE	1.25	30	1	30	0.75	22.5	1	30
SINKS	– –	– –	– –	– –	– –	– –	– –	– –
SPECIAL PURPOSE, PUBLIC & ASSEMBLY	1.5	4	2	8	1.5	6	3	12
KITCHEN, DOMESTIC (2" DRAIN)	1.5	8	1.5	12	1.125	9	2	16
SERVICE OR MOP BASIN – PUBLIC	2 OR 3	1	3	3	2.25	2.25	3	3
WATER CLOSETS	– –	– –	– –	– –	– –	– –	– –	– –
1.6 GPF FLUSHOMETER VALVE, PRIVATE	3	15	5	75	– –	– –	3	45
COMMERCIAL KITCHEN AND LAUNDRY EQUIPMENT	– –	– –	– –	– –	– –	– –	– –	– –
DISHWASHER – INDIRECT WASTE <50 GPM	IW	1	4	4	4	4	– –	– –
TWO COMP SINK	3	1	3	3	2.25	2.25	6	6
PREP SINK	IW	1	1.5	1.5	1.125	1.125	2	2
HAND SINK	1.5	1	1	1	0.75	0.75	1	1
	TOTALS	81		155.5		63.375		136

ELECTRIC WATER HEATERS

EQUIPMENT NUMBER	WH-1
SERVICE	
LOCATION	LAUNDRY JAN 122
SYSTEM	DOMESTIC HW
TYPE	ELECTRIC
SERVICE CONDITIONS	
CAPACITY – GALLONS	120
RECOVERY, 90°F RISE – GPH	184
ELECTRICAL	
STAGES	3
kW INPUT/STAGE	15 (45 kW TOTAL)
VOLTS/ø/Hz	480/3ø/60
FULL LOAD AMPS	
MANUFACTURER/DESIGN BASIS	
MAKE	A.O. SMITH
MODEL	DSE-120
REMARKS	[1], [2]

REMARKS:
[1] MOUNT ON R-10 INSULATED PAD WITH DRAIN PAN
[2] PROVIDE SEISMIC STRAP
[3] MINIMUM PERFORMANCE PER 2015 SEC TABLE C402.2

PUMPS

EQUIPMENT NUMBER	CP-1	CP-2
SERVICE		
LOCATION	WATER RM.	WATER RM.
SYSTEM	DOMESTIC HW	DOMESTIC HW
TYPE	CARTRIDGE	CARTRIDGE
SERVICE CONDITIONS		
CAPACITY – GPM	4	4
TOTAL HEAD – FT.	14	14
FLUID	WATER	WATER
TEMPERATURE – °F	120	120
MOTOR		
HORSEPOWER, MIN.	1/25	1/25
SPEED – RPM	3250	3250
VOLTS/ø/Hz	115/1/60	115/1/60
CONNECTIONS	3/4" SWEAT	3/4" SWEAT
MANUFACTURER/DESIGN BASIS	TACO 008-BRONZE	TACO 008-BRONZE
REMARKS	[1]	[1]

REMARKS:
[1] PROVIDE TIMER, AQUASTAT

DRAINS, CLEANOUTS, AND HYDRANTS SCHEDULE

SYMBOL	ITEM	MAKE/MODEL	REMARKS
FD-1	FLOOR DRAIN (FD) OR FUNNEL (FFD)	JAY R. SMITH FIG. 2005	–
FS-1	FLOOR SINK	JONESPEC FD-2375	12"x12", 6" SUMP DEPTH, NO GRATE, PIPE SIZE AS INDICATED ON PLANS. SET RIM ½" A.F.F.
WHA	WATER HAMMER ARRESTER	JAY R. SMITH 5005	SIZE PER MANUFACTURER'S RECOMMENDATIONS
CO, WCO	CLEAN OUT, WALL CLEAN OUT	JAY R. SMITH 4020-F	FLUSH TYPE
TP	TRAP PRIMER	PPP	PRIME ALL FLOOR DRAINS
BFP-1	2" REDUCED PRESSURE BACKFLOW ASSEMBLY	WILKINS 375XL 2", I.W. TO MOP SINK	WITH STRAINER & BALL VALVES
BFP-2	¾" REDUCED PRESSURE BACKFLOW ASSEMBLY	WILKINS 375XL ¾", I.W. TO FS-1	RATED FOR 180°F (DISHWASHER)

PLUMBING SYSTEM SCHEDULE & SPECIFICATION

SYSTEM	ABOVE GROUND	BELOW GROUND	JOINT METHOD	PIPE INSULATION/REMARKS
SOIL/WASTE/VENT	CISP/SOLID WALL PVC	N/A	NO HUB/SOLVENT WELD	CISP ONLY FOR RETURN AIR PLENUM AREAS
COLD WATER & HOT WATER 2" & SMALLER	FLOWGUARD GOLD [1] SDR 11 <140°F COPPER TYP L	N/A	SOLVENT WELD NON LEAD 95/5 SOLDER	JACKETED FIBERGLASS INSULATION ON ALL CIRCULATED DOMESTIC HOT WATER PIPING. THICKNESS PER WSEC. ½" INSULATION ON COLD WATER MAINS.
COLD WATER & HOT WATER 2½" AND LARGER	TYPE L COPPER, SCH 80 CORZAN	N/A	NON-LEAD, NON-ANTIMONY SOLDER SOLVENT WELD	JACKETED FIBERGLASS INSULATION ON ALL CIRCULATED DOMESTIC HOT WATER PIPING. THICKNESS PER SEC. ½" INSULATION ON COLD WATER MAINS.

NOTES:
[1] NOT ALLOWED FOR 140°F DEGREE HW/HWC

DOMESTIC WATER PIPE SIZING TABLE

WSFU BASED ON 2015 UPC CHART A103.1

PIPE MATERIAL TYPE L COPPER FLUSH TANK VELOCITY <= 8 FPS	CW	
PSI/100 FT	2	
WSFU RANGE	MIN	MAX
PIPE SIZE (")		
1/2	0	1
3/4	1.5	4
1	5	9
1 1/4	10	18
1 1/2	19	32
2	33	105
2 1/2	106	275

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PIPE MATERIAL TYPE L COPPER FLUSH TANK VELOCITY <= 5 FPS	HW	
PSI/100 FT	2	
WSFU RANGE	MIN	MAX
PIPE SIZE (")		
1/2	0	1
3/4	1.5	4
1	5	9
1 1/4	10	18
1 1/2	19	32
2	33	105

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PIPE MATERIAL TYPE L COPPER FLUSH VALVE VELOCITY <= 8 FPS	CW	
PSI/100 FT	2	
WSFU RANGE	MIN	MAX
PIPE SIZE (")		
1		
1 1/4		
1 1/2	0	5.5
2	6.5	37
2 1/2	38	145

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STORAGE & EXPANSION TANKS

EQUIPMENT NUMBER	ET-1
SERVICE	
LOCATION	STORAGE RM.
SYSTEM	DOMESTIC HW
TYPE	
ORIENTATION	VERTICAL
LINING	YES
ASME	YES
SERVICE CONDITIONS	
CAPACITY – GALLONS	14
ACCEPTANCE – GALLONS	9
INSULATION	N/A
FLUID	WATER
PRESSURE – PSI	150
TEMPERATURE – °F	140
UNIT CONDITIONS	
INLET & OUTLET TAP SIZE	3/4"
DIAMETER X HEIGHT	16"x19"
MANUFACTURER/DESIGN BASIS	AMTROL ST-30VC
REMARKS:	

VERIFY SCALE

BAR MEASURES ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS DRAWING, ADJUST SCALES ACCORDINGLY.

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City of Kirkland
Reviewed by Allaupt
06/21/2018

1/18/18

PERMIT SET 18 JAN 2018
PROGRESS SET 04 DEC 2017

Bright Horizons FAMILY SOLUTIONS®

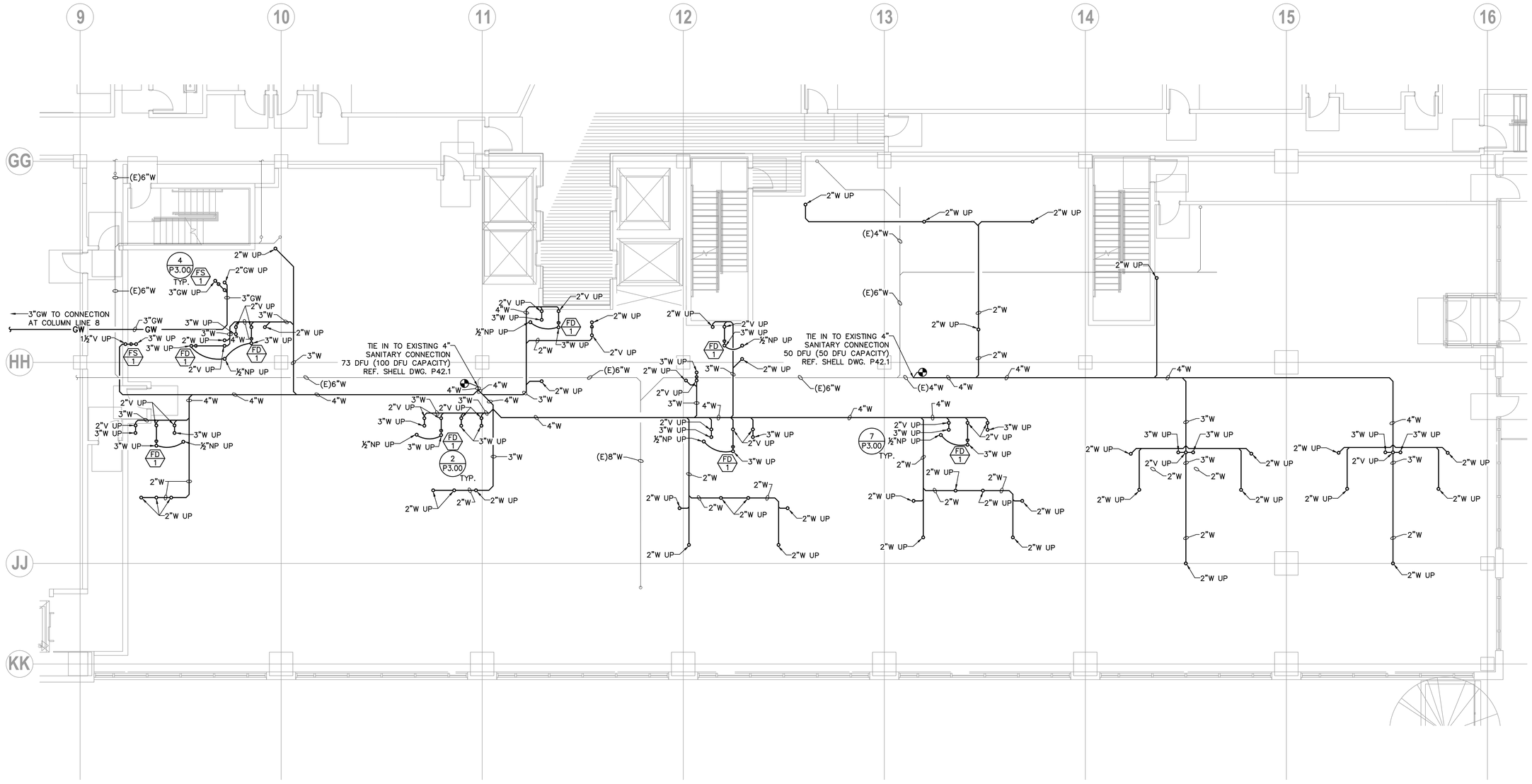
KIRKLAND
URBAN
425 URBAN PLAZA
KIRKLAND, WA 98033

SPACE FOR OFFICAL CITY USE ONLY

PLUMBING SCHEDULES & NOTES

SCALE: AS NOTED
DRAWN: BAQ
CHECKED: BWR
PROJECT NO: 2016-084

P0.02



GENERAL NOTES:
1. WASTE & VENT RISERS FOR SHELL WORK NOT SHOWN.
2. FIELD VERIFY EXACT POC & (E) CONDITIONS.
3. ANY REQUIRED PROTECTIVE MEASURES UNDER WASTE PIPING REQUIRED BY TENANT ON THIS LEVEL IS BY OTHERS.

NORTH

UNDERFLOOR PLUMBING PLAN

SCALE: ⅛" = 1'-0"

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City of Kirkland
Reviewed by AHaupt
06/21/2018

BRIAN W. ROETCISOENDER
STATE OF WASHINGTON
30321
REGISTERED
PROFESSIONAL ENGINEER
1/18/18

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UNDERFLOOR
PLUMBING PLAN

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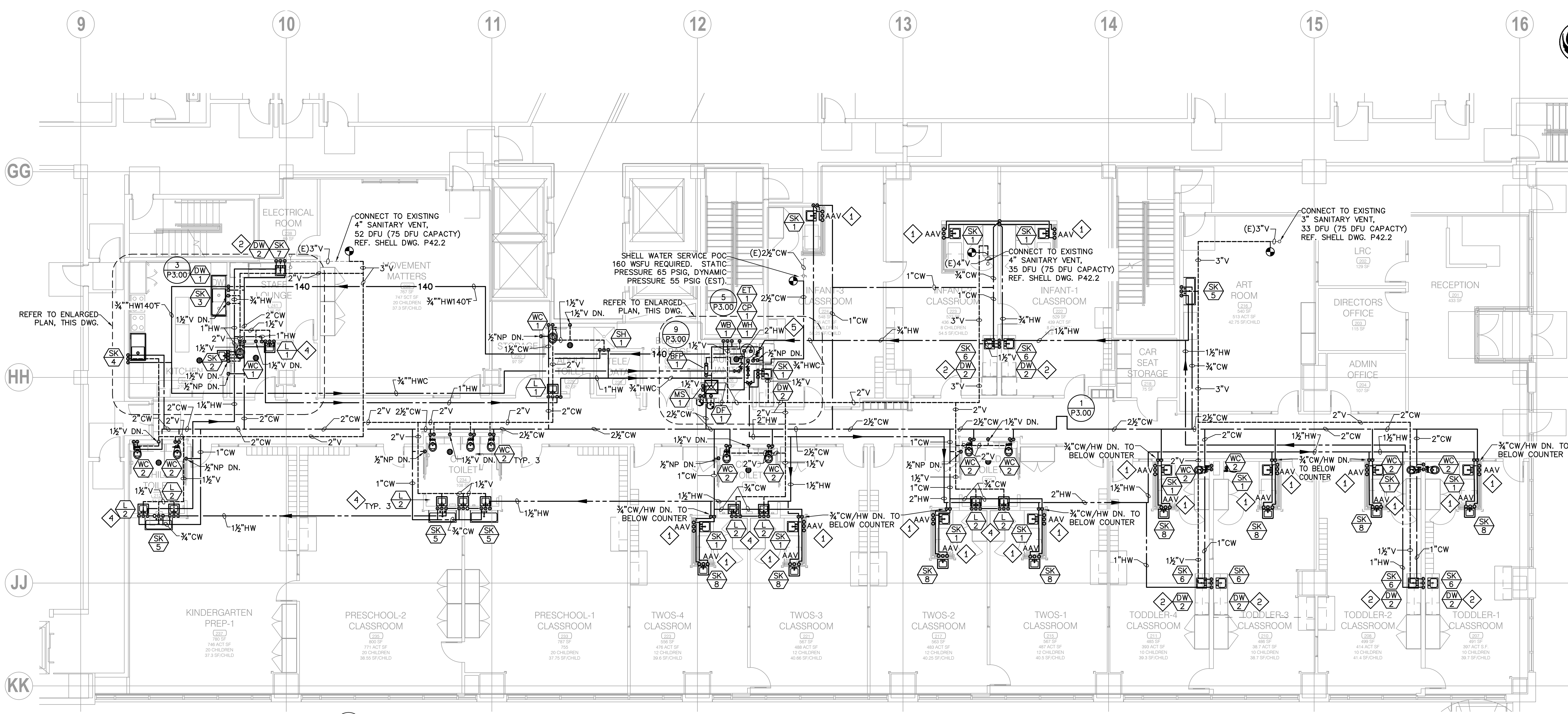
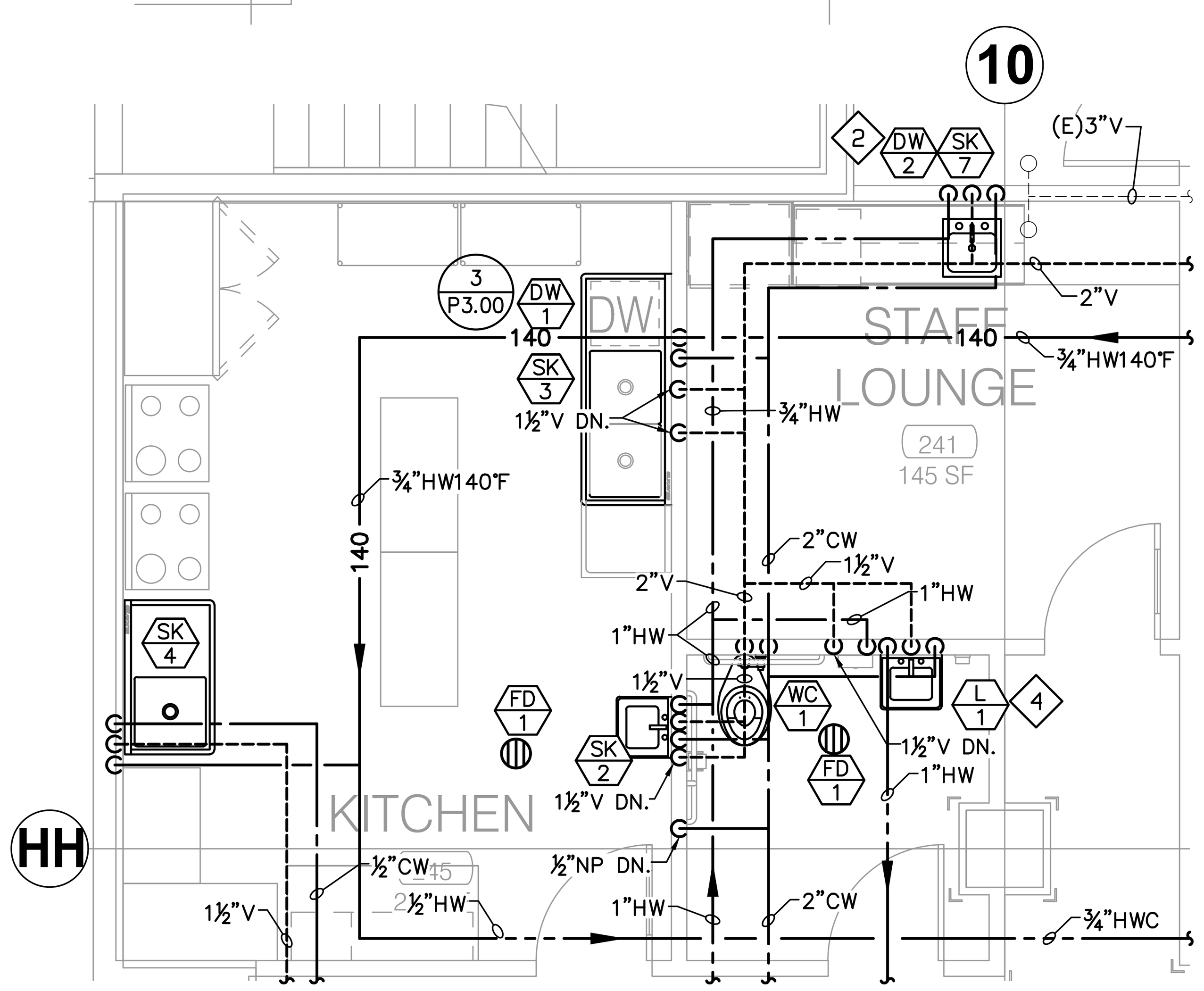
P1.00



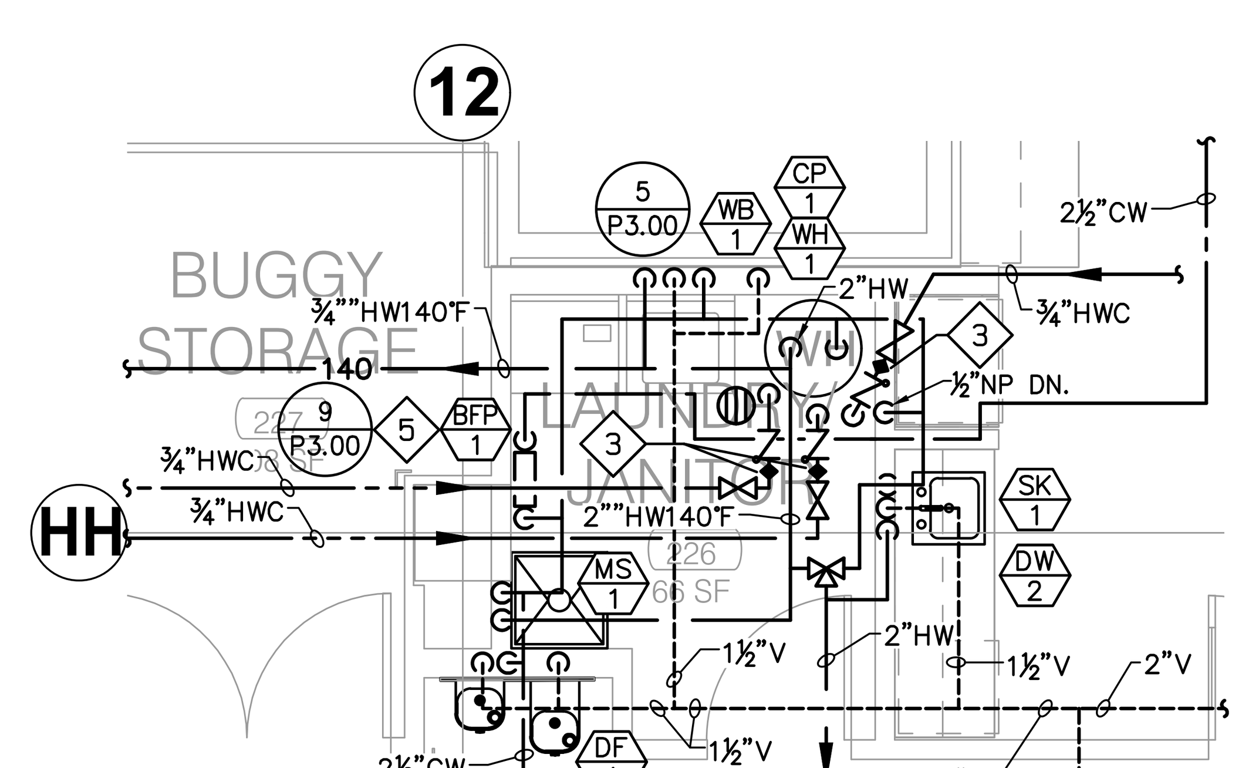
PLUMBING FLOOR PLAN

SCALE: ⅛" = 1'-0"



ENLARGED KITCHEN PLAN

SCALE: ¼" = 1'-0"



ENLARGED JANITOR ROOM PLAN

SCALE: ¼" = 1'-0"

SHEET NOTES

1. AIR ADMITTANCE VALVE SHALL BREATHE FREELY WITH UNDER-CABINET SPACE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. FOR VALVES INSTALLED IN WALL CAVITY, PROVIDE SMALL GRILLE AS REQUIRED.
2. CONNECT DW-2 WASTE TO AIR GAP FITTING ON ADJACENT SINK.
3. PROVIDE ISOLATION BALL VALVE, BALANCE VALVE, (GRISWOLD TYPE K LOW-LEAD, 1-15 PSID, 3.5 FT. HEAD LOSS, 2 GPM), AND CHECK VALVE ON START OF HWC RETURN LEG.
4. CIRCULATE HW DN. TO WITHIN 2' OF LAVATORY HW STOP PER WEC C403.4.1. SEE DETAIL 8/P3.00
5. NO BRANCH PIPING CONNECTIONS ARE ALLOWED ON WATER SERVICE PIPE UPSTREAM OF BFP-1.

GENERAL NOTES

1. PROVIDE CONDENSATE DRAIN PIPING SYSTEM FOR FAN COIL SHOWN ON DRAWING M1.00. SEE DETAIL 6/P3.00.

REUSE OF DOCUMENTS	VERIFY SCALE
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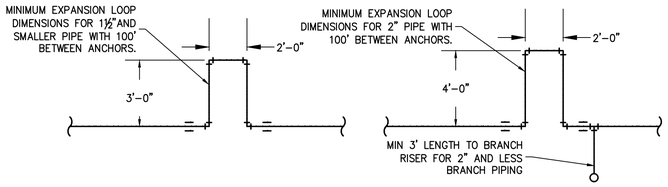
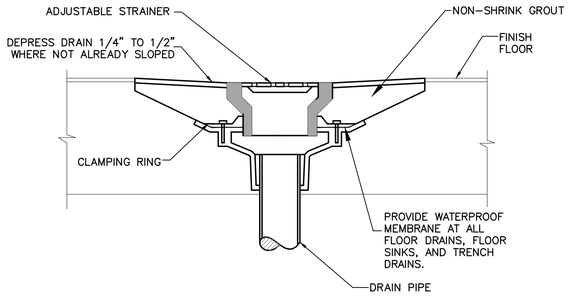
PROJECT NO:	2016–084

P2.00



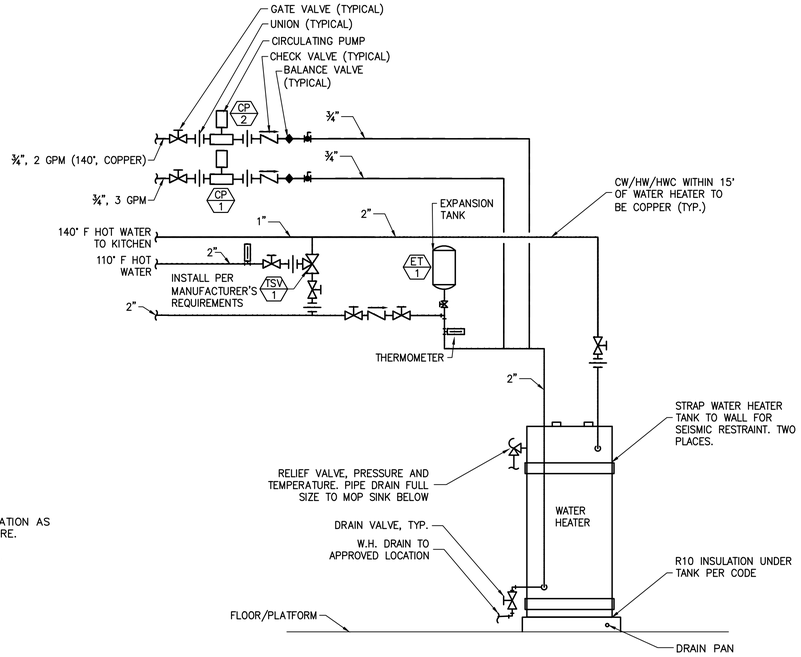
1 P3.00 HOT & COLD WATER EXPANSION LOOP

SCALE: NTS



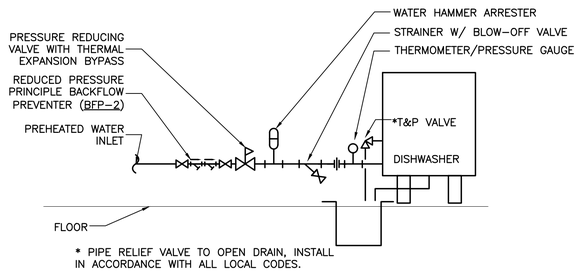
2 P3.00 FLOOR DRAIN DETAIL

SCALE: NTS



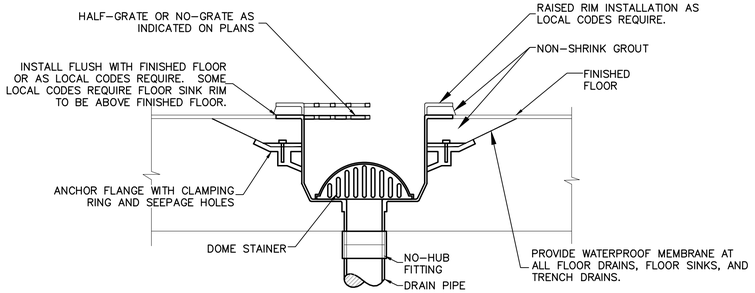
5 P3.00 WATER HEATER DETAIL

SCALE: NTS



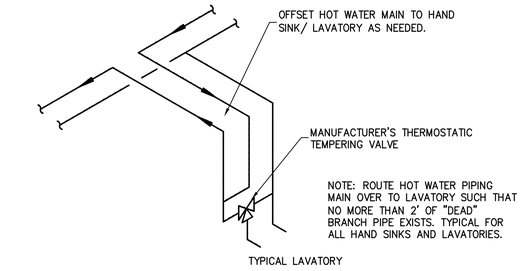
3 P3.00 DISHWASHER CONNECTION DETAIL

SCALE: NTS



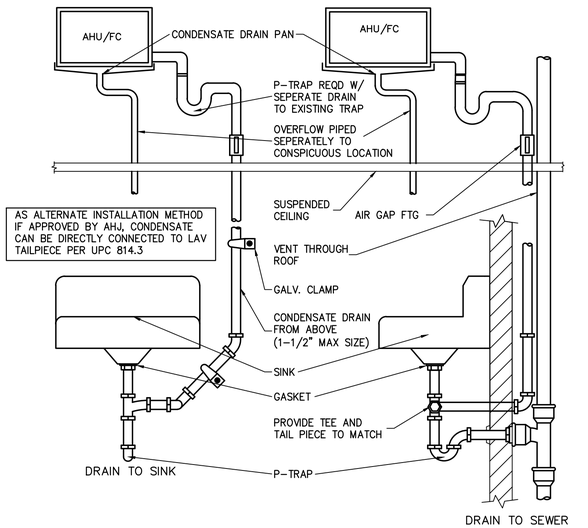
4 P3.00 FLOOR SINK DETAIL

NOT TO SCALE



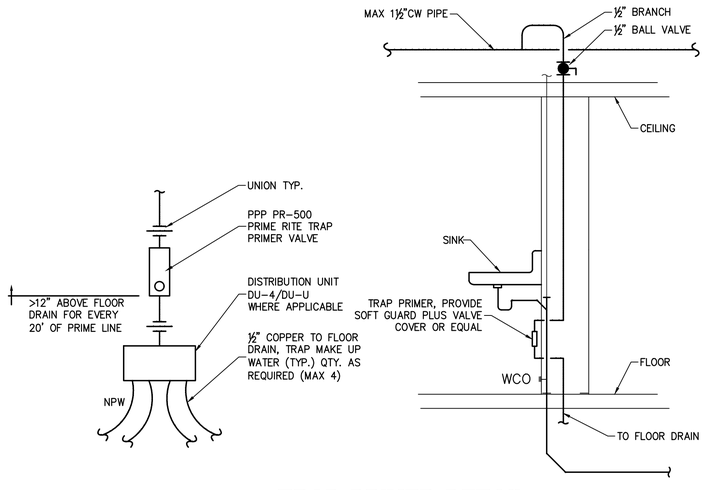
8 P3.00 TYPICAL LAVATORY PIPING DETAIL

SCALE: NTS



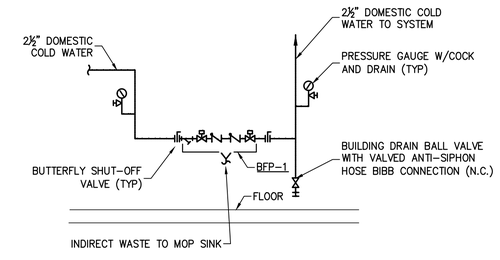
6 P3.00 CONDENSATE DRAIN TO PUBLIC SINK AND VENTS

SCALE: NONE



7 P3.00 TRAP PRIMER DETAIL

SCALE: NTS



NOTE: ALL TESTING OUTLETS NOT TO EXCEED 5' AFF

9 P3.00 DOMESTIC WATER SERVICE DETAIL

SCALE: NTS

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P3.00

FIRE ALARM

CLG MTD	WALL MTD	
	F	MANUAL PULL STATION
	H	FIRE ALARM HORN
L	L	FIRE ALARM STROBE
F	F	FIRE ALARM HORN/STROBE
	FARA	FIRE ALARM REMOTE ANNUNCIATOR
	FACP	FIRE ALARM CONTROL PANEL
		FIRE ALARM SMOKE DETECTOR
	D	FIRE ALARM SMOKE DUCT DETECTOR
		FIRE ALARM HEAT DETECTOR

GENERIC

XXX-XX-XX	EQUIPMENT TAG
1	FLAG NOTE
X / X.X	DETAIL / PLAN IDENTIFIER
1	REVISION CALLOUT
XXX	FEEDER TAG

MISCELLANEOUS

K	KEY PAD
	PUSH BUTTON DOOR OPERATOR
EPO	EMERGENCY POWER OFF SWITCH
	CLOCK
	EQUIPMENT AS NOTED

DATA / COMMUNICATION

	BROADBAND COAX OUTLET W/ (1) RG-6 CABLE
W	WALL PHONE OUTLET, MOUNT AT +48", W/(1) CAT5E CABLE
X	TELECOM OUTLET SUBSCRIPT INDICATES: X - QTY OF CAT 5E CABLES; (1) CAT 5E CABLE UON WAP - WIRELESS ACCESS POINT; (1) CAT 5E CABLE UON
	CAMERA
CR	CARD READER
RX	REQUEST TO EXIT

A SEPARATE ELECTRICAL PERMIT IS REQUIRED ELECTRICAL PLAN REVIEW REQUIRED

LIGHTING

A4	LED PENDANT LIGHT FIXTURE, SIZES VARY. REFER TO FIXTURE TYPE. TYPICAL ALL FIXTURES: ADJACENT LETTER INDICATES FIXTURE TYPE ADJACENT NUMBER INDICATES CIRCUIT GROUPING LOWER CASE LETTER INDICATES SWITCHING GROUP
	LED PENDANT LIGHT FIXTURE ON BATTERY BACKUP SIZE VARIES, REFER TO FIXTURE TYPE.
	PENDANT DOWNLIGHT FIXTURE
	WET-LOCATION CAN LIGHT FIXTURE
	ILLUMINATED EXIT SIGN - FACES & DIRECTION OF ALL ARROWS AS SHOWN, WHERE INDICATED
$a	WALL SWITCH - SUBSCRIPT INDICATES: 3 = 3-WAY 4 = 4-WAY NS = NIGHT SWITCH a = LOWER CASE LETTERS INDICATES SWITCHING GROUP DESIGNATION T = TIMER OS = OCCUPANCY SENSOR
$a	DIMMER SWITCH
DS	DAYLIGHT SENSOR
OS	OCCUPANCY SENSOR, CEILING MOUNTED

POWER

	RECEPTACLE OUTLET: SUBSCRIPT NUMBER INDICATES PANEL CIRCUIT NUMBER SUBSCRIPT LETTER INDICATES: WP - WEATHERPROOF
	GFCI DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE - HALF SWITCH
	CEILING DUPLEX RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE
	QUADRUPLEX RECEPTACLE
	EQUIPMENT CONNECTION
30A	SPECIAL PURPOSE RECEPTACLE, DEVICE RATING AS SHOWN
	J-BOX
30A	NON-FUSED DISCONNECT SIZE AS INDICATED
40/60	FUSED DISCONNECT AMP FUSE SIZE (40 AF) AMP SWITCH SIZE (60 AS)
	MOTOR STARTER
	COMBINATION MOTOR STARTER - DISCONNECT SWITCH
	SHUNT TRIP CIRCUIT BREAKER
	MOTOR CONNECTION
	480Y/277V ELECTRICAL PANEL
	208Y/120V ELECTRICAL PANEL
	RESIDENTIAL PANEL
$MRSS	MOTOR RATED SNAP SWITCH

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER, ALTERNATING CURRENT
AF	AMP FUSE; AMP FRAME
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
C	CONDUIT; DEGREES CELSIUS
CAT	CATEGORY
CCTV	CLOSED CIRCUIT TELEVISION
CU	COPPER
DWG	DRAWING
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR, END CAP
EF	EXHAUST FAN
ELEC	ELECTRICAL
EPO	EMERGENCY POWER OFF
EQ, EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
FSD	FIRE SMOKE DAMPER
FT	FOOT; FEET
G, GND	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSE POWER
IBC	INTERNATIONAL BUILDING CODE
JB	JUNCTION BOX
kVA	KILOVOLT AMPERE
KW	KILOWATT
KCMIL	THOUSAND CIRCULAR MILS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LF	LINEAL FOOT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MRSS	MOTOR RATED SNAP SWITCH
N	NEUTRAL
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD LINE
OS	OCCUPANCY SENSOR
PIV	POST INDICATOR VALVE
QTY	QUANTITY
REV	REVISION
SCL	SEATTLE CITY LIGHT
SF	SQUARE FOOT, SUPPLY FAN
SMR	SURFACE METAL RACEWAY
SPEC	SPECIFICATION
TBB	TELECOMMUNICATIONS BACKBOARD
TBD	TO BE DETERMINED
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WATT; WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
Y	WYE

ELECTRICAL DRAWING INDEX

SHEET NUMBER	SHEET TITLE	SHEET SCALE	PERMIT SET 1/18/2018
E0.00	ELECTRICAL LEGENDS AND ABBREVIATIONS	NTS	X
E0.10	ELECTRICAL RISER DIAGRAM	NTS	X
E0.20	ELECTRICAL MEP SCHEDULE	NTS	X
E0.30	ELECTRICAL HOUSE PANEL SCHEDULES	NTS	X
E0.60	ENERGY CODE FORMS	NTS	X
E0.70	ENERGY CODE FORMS	NTS	X
E0.80	LIGHTING CONTROL SEQUENCE OF OPERATIONS	NTS	X
E2.00	LEVEL 1 - P&LV PLAN	1/8" = 1'-0"	X
E3.00	LEVEL 1 - LIGHTING PLAN	1/8" = 1'-0"	X
E5.00	ENLARGED ELECTRICAL ROOMS	1/4" = 1'-0"	X

APPLICABLE CODES

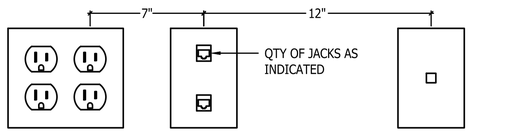
CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CODES CURRENTLY ADOPTED BY AHJ, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

BUILDING CODE	2015 IBC
ENERGY CODE	2015 WASHINGTON STATE ENERGY CODE
ELECTRICAL CODE	2017 NEC
MISC	NATIONAL FIRE PROTECTION ASSOCIATION (NFPS)
	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

OUTLET MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE CENTERLINE OF THE OUTLET TO THE FINISHED FLOOR, UNO.

RECEPTACLES	+18 INCHES VERTICAL
LIGHT SWITCHES	+48 INCHES SET VERTICAL
PANEL BOARDS	+6 FEET TO TOP OF PANELBOARD
TELECOM OUTLET-DESK	+18 INCHES VERTICAL
TELECOM OUTLET-WALL	+18 INCHES VERTICAL
MANUAL STATION	+48 INCHES VERTICAL
FIRE ALARM CONTROL PANEL	+6 FEET TO TOP
FIRE ALARM VISUAL ALARM LIGHT	+80 INCHES OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER
FIRE ALARM SPEAKER HORN, CHIME	+80 INCHES OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER



TWS

TEACHER WORKSTATION DETAIL (TWS W 2)

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City of Kirkland
Reviewed by AHaupt
06/21/2018

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18 JANUARY 2018

Bright Horizons FAMILY SOLUTIONS

KIRKLAND URBAN
425 URBAN PLAZA
KIRKLAND, WA 98033

ELECTRICAL LEGENDS AND ABBREVIATIONS

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.00

POINT TO POINT 3-PHASE BOLTED FAULT CURRENT CALCULATION

65KA @ BRIGHT HORIZON SERVICE POINT FROM MSB — Safety Factor 95.0%

480V

From	To	Length	I(sc)	C value	C value per feeder	f (calc)	M (calc)	I(sc-sym rms)	Feeder Tag	Per Phase	Conduit	Type	Cable	Wire Size	NOTES	AIC
MSB	HP-1	150	65000	25594	12797	1.37458975	0.42112538	27373	400.4	2	Steel	AL	3C	250		42,000
HP-1	T-BH1	6	27373	11185	11185	0.05298424	0.94968183	25996	175.3	1	Steel	AL	3C	4/0		42,000

From Primary to Secondary

Primary	Secondary	Length	I(sc)			f (calc)	M (calc)	I(sc-sym rms)		KVA		Notes			NOTES	AIC
T-BH1	T-BH1	NA	25996			5.76066545	0.14791443	8873		113		3%Z			3%Z	10,000

208V

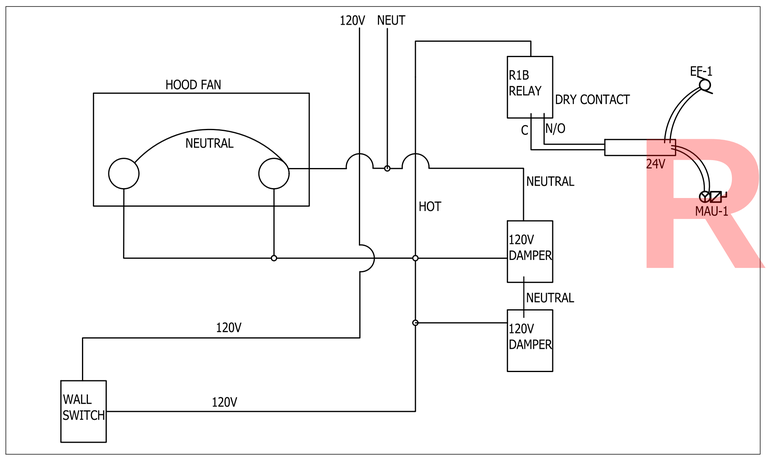
From	To	Length	I(sc)	C value	C value per feeder	f (calc)	M (calc)	I(sc-sym rms)	Feeder Tag	Per Phase	Conduit	Type	Cable	Wire Size	NOTES	AIC
T-BH1	CP-1	6	8873	25594	12797	0.01732164	0.98297329	8722	400.4	2	Steel	AL	3C	250		10,000
CP-1	CP-2	0	8722	25594	12797	0.00000000	1.00000000	8722	400.4	2	Steel	AL	3C	250		10,000

S - SERVICE E - EQUIPMENT X-TRANSFORMER	TAG	FEEDER SCHEDULE (CU) NO. OF RACE WAYS	SIZE IN.	PHASE CONDUCTORS	NEUTRAL	GND E/S	AMPS/COND	AMPS	CB	FEEDER SCHEDULE (AL MC) NO. OF CABLES	SIZE IN.	PHASE CONDUCTORS	NEUTRAL	GND E/S	AMPS/COND	AMPS	CB
E/X-112.5KVA	175.3									1	1.67"	3#4/0	-	1#2	180	180	175
E/S	400.4	2	1.70"	3#3/0	1#3/0	#3/#2	200	400	400	2	2.01"	3#250Kcmil	1#250Kcmil	1#1/0/ 1#3/0	205	410	400

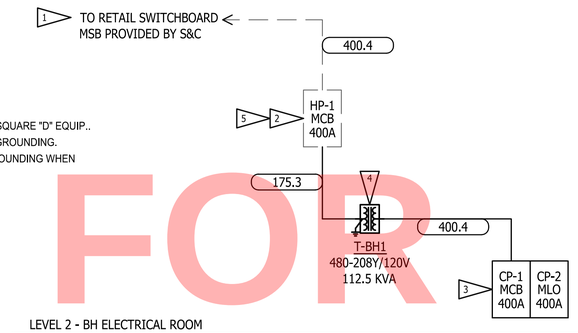
NOTES

1	CONDUIT SIZE IS BASED UPON NEC CHAPTER 9, TABLE C.1
2	CONDUCTOR AMPACITY IS BASED UPON NEC 310.16 FOR THHN INSULATION; 75 DEGREE C RATING FOR #1 & LARGER 60 DEGREE C RATING FOR #2 AND SMALLER.
3	VOLTAGE DROP IS BASED UPON IMPEDANCE VALUES GIVEN IN NEC CHAPTER 9, TABLE 8.
4	ALUMINUM AND COPPER SCHEDULE BASED ON MINIMUM REQUIREMENTS OF THE NEC CODE TABLES 255.66, (SERVICE ENTRANCE) AND 250.122, (EQUIPMENT).
*	MUST MEET REQUIREMENTS FOR NEC 240.4B, (OVER CURRENT DEVICE CANNOT EXCEED 800A)
X	TRANSFORMER FEEDER, (treated as a seperately derived system, grounding per service entrance table 250.66), SIZED AT 125% OF LINE SIDE KVA REQUIREMENTS.
E	EQUIPMENT FEEDER AND GROUND PER NEC TABLE 250.122
S	SERVICE ENTRANCE GROUND PER NEC TABLE 250.66
110.3S	TAGS FOLLOWED BY AN "S" DESIGNATION DENOTE SINGLE PHASE EQUIPMENT OR SERVICE ENTRANCE. SINGLE PHASE SERVICE IS SIZED UP TO 1200 AMPS PER SQUARE "D" EQUIP..
SIZE IN. ALU.	BASED ON ALCAN STABILOY MC CABLE OUTSIDE DIAMETER. GROUNDS FOR STABILOY PRODUCTS MEET OR EXCEED THE NEC REQUIERMENTS FOR EQUIPMENT GROUNDING.
SIZE IN. CU.	BASED ON SOUTHWIRE MC CABLE OUTSIDE DIAMETER. GROUNDS FOR SOUTHWIRE PRODUCTS MEET OR EXCEED THE NEC REQUIERMENTS FOR EQUIPMENT GROUNDING WHEN SINGULAR OR IN PARALELL GROUPS.

Ground sizing: Service Entrance ground shall be sized per the circular mil equivalent of the number and size of the service conductors per phase.
example: 2 sets of 3/0 copper is the circular mil equivalent of 335600, (table 8, chapter 9), or 350Kcmil. The ground for this per table 250.66 is a #2 copper ground and a 1/0 aluminium ground.



RANGE HOOD WIRING DIAGRAM



LEVEL 2 - BH ELECTRICAL ROOM

SCOPE DELINEATION
SHELL AND CORE:
Provide and install (1) 400A, 480V, 3-phase MCB panel HP-1 and feeder from switchboard 4F3DSBA in level L3 electrical room. Provide breakers as shown on HP-1 panel schedule.
Provide and install 2" conduit with pull string from telecom MDF to Bright Horizons' telecom room.
Provide and install rooftop VRF unit VCU-FR-2C, fed from HP-1.
BRIGHT HORIZONS:
Provide and install (1) feeder from switchboard 4F3DSBA in level 3 electrical room to transformer T-BH1 in level 2 electrical room.
Provide and install (1) 112.5 kVA transformer T-BH1 in the level 2 electrical room.
Provide and install (1) 400A at 208V, 3-phase MCB panel CP-1 and feeder from T-BH1 in the level 2 electrical room.
Provide and install (1) 200A at 208V, 3-phase MCB panel CP-2 in the level 2 electrical room.
Provide and install telecom backboards and rack as shown on enlarged plan.
Provide connections and feeders from MDP on level 1 to water heater on level 2.
Provide wiring from telecom MDF to Bright Horizons' telecom room.

ELECTRICAL RISER DIAGRAM
SCALE: NTS

GENERAL NOTES:

1. EC TO COORDINATE WITH SHELL AND CORE EC TO VERIFY EXISTING CONDITIONS.
2. BH EC TO VERIFY AIC RATING AT MDP IN MAIN ELECTRICAL ROOM. EC TO VERIFY AVAILABLE FAULT CURRENT WITH SHELL AND CORE EC AND ENSURE PROPER AIC RATINGS ON ALL INSTALLED ELECTRICAL GEAR.
3. WSEC C409 COMPLIANCE: TENANT SPACE IS LESS THAN 25,000 SQUARE FEET. METERING IS NOT REQUIRED PER EXCEPTION 2 OF SEC C409.

FLAG NOTES:

1. 2000A MAIN DISTRIBUTION BOARD IN BUILDING ELECTRICAL ROOM PROVIDED BY S&C.
2. S&C EC TO PROVIDE (1) 400A PANEL HP-1 IN BRIGHT HORIZONS' ELECTRICAL ROOM. S&C EC TO PROVIDE BREAKERS. ALL EQUIPMENT DOWNSTREAM OF PANEL HP-1 TO BE PROVIDED BY BH EC.
3. BH EC TO PROVIDE (2) 400A PANELS CP-1 AND CP-2.
4. BH EC TO PROVIDE ONE 112.5 KVA TRANSFORMER TO FEED PANELS CP-1 AND CP-2.
5. S&C EC TO PROVIDE BREAKERS, FEEDERS, DISCONNECTS AND ALL REQUIRED CONNECTIONS TO ROOFTOP MECHANICAL EQUIPMENT.

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06/21/2018

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Bright Horizons FAMILY SOLUTIONS

KIRKLAND URBAN
425 URBAN PLAZA
KIRKLAND, WA 98033

ELECTRICAL RISER DIAGRAM

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.10

Equip. No.	Service/Description	Quantity	Voltage	phase	MOTOR HP	LOAD KVA	LOAD AMPS	OC PROTECT FRAME	OC PROTECT TRIP	FEEDER C	FEEDER WIRE	MCA	TOTAL KW	Emerg Power	STARTER TYPE	STARTER FURNISHED BY 23	STARTER FURNISHED BY 26	DISCONNECT TYPE	DISCONNECT FURNISHED BY 23	DISCONNECT FURNISHED BY 26	General Comments
Project:	BRIGHT HORIZONS KIRKLAND- MEP COORDINATION SCHEDULE																				
Subject:	DIV 23																				
	208V 3 PHASE SECTION																				
MAU-1	MAKEUP AIR UNIT	1	208	3				60	40	1/2"	2 #12 & 1#12G	27.8	5.8	N	BY MC	X		FUSED		X	NOTE 1
	208V 1 PHASE SECTION																				
HRU-1	HEAT RECOVERY UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	3.4	0.7	N	BY MC	X		FUSED		X	NOTE 2
HRU-2	HEAT RECOVERY UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	6.8	1.4	N	BY MC	X		FUSED		X	NOTE 2
HRU-3	HEAT RECOVERY UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	6.8	1.4	N	BY MC	X		FUSED		X	NOTE 2
HRU-4	HEAT RECOVERY UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	6.8	1.4	N	BY MC	X		FUSED		X	NOTE 2
HRU-5	HEAT RECOVERY UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	5.6	1.2	N	BY MC	X		FUSED		X	NOTE 2
FCU-1, -4, -9	INDOOR VRF UNIT	3	208	1				30	15	1/2"	2 #12 & 1#12G	2.7	1.7	N	T-STAT	X		FUSED		X	
FCU-2	INDOOR VRF UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	2.7	0.6	N	T-STAT	X		FUSED		X	
FCU--3	INDOOR VRF UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	3.0	0.6	N	T-STAT	X		FUSED		X	
FCU-7, -8	INDOOR VRF UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	3.5	0.7	N	T-STAT	X		FUSED		X	
FCU-6	INDOOR VRF UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	5.2	1.1	N	T-STAT	X		FUSED		X	
FCU-5	INDOOR VRF UNIT	1	208	1				30	15	1/2"	2 #12 & 1#12G	5.2	1.1	N	T-STAT	X		FUSED		X	
HRB-2C-1	VRF HEAT RECOVERY	1	208	1				30	15	1/2"	2 #12 & 1#12G	0.2	0.1	N	BY MC	X		FUSED		X	
HRB-2C-2	VRF HEAT RECOVERY	1	208	1				30	15	1/2"	2 #12 & 1#12G	0.2	0.1	N	BY MC	X		FUSED		X	
HRB-2C-3	VRF HEAT RECOVERY	1	208	1				30	15	1/2"	2 #12 & 1#12G	0.2	0.1	N	BY MC	X		FUSED		X	
	120V 1 PHASE SECTION																				
EF-1	KITCHEN EXHAUST FAN	1	120	1	1/2	1.2	9.8	30	15	1/2"	2 #12 & 1#12G		1.2	N	-	X		MRSS		X	
TF-1	ELEC EXHAUST	1	120	1				30	20	1/2"	2#12 & 1#12G		0.06	N	-	X		MRSS		X	

DIV 23 LOAD	**78.1 KVA**
DIV 22 LOAD	**0.0 KVA**
TOTAL LOAD	**78 KVA**

NOTES:

1. MAU-1 TO BE INTERLOCKED TO OPERATE WITH EF-1. MC TO PLAN INTERCONNECTION AND WIRING. EC TO PROVIDE WALL SWITCH FOR EF-1 IN KITCHEN HOOD.
2. PROVIDE 120V CONNECTION TO CONDENSATE PUMPS AS REQUIRED. CONFIRM LOCATIONS AND QUANTITIES WITH SHELL AND CORE MC AND EC.

Equip. No.	Service/Description	Quantity	Voltage	phase	MOTOR HP	LOAD KVA	LOAD AMPS	OC PROTECT FRAME	OC PROTECT TRIP	FEEDER C	FEEDER WIRE	MCA	TOTAL KW	Emerg Power	STARTER TYPE	STARTER FURNISHED BY 22	STARTER FURNISHED BY 26	DISCONNECT TYPE	DISCONNECT FURNISHED BY 22	DISCONNECT FURNISHED BY 26	General Comments
Project:	BRIGHT HORIZONS KIRKLAND- MEP COORDINATION SCHEDULE																				
Subject:	DIV 22																				
	480V 3 PHASE SECTION																				
WH-1	ELECTRIC WATER HEATER	1	480	3				100	70	2"	3#4 & 1 #6G	54.1	45.0	N	BY PC	X		FUSED		X	
	120V 1 PHASE SECTION																				
CP-1	CIRCULATION PUMP	1	120	1	1/25	0.5	4.4	30	15	1/2"	2#12 & 1#12G		0.5	N	BY PC	X		MRSS		X	

ELECTRICAL MEP SCHEDULE

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

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18 JANUARY 2018

Bright Horizons
FAMILY SOLUTIONS

KIRKLAND
URBAN

425 URBAN PLAZA
KIRKLAND, WA 98033

ELECTRICAL MEP SCHEDULE

SCALE:	
DRAWN:	TMA
CHECKED:	HMK
PROJECT NO:	1732-00

E0.20

PANEL SCHEDULE

PANEL: **HP-1** | LOCATION: LEVEL 2 | VOLTS: 480 Y/ 277 P 3 W: 4
AMP: 400 | MLO [X] | MCB [ ] | FED FROM: SWITCHBOARD 4F3DSBA | AIC RATING: | MOUNT: [ ] SURFACE [X] FLUSH
TYPE: EXISTING [X] | NEW [ ] | ENCLOSURE: NEMA 3R | NEUTRAL: 100% | [ ] IG BUS [ ] FTL

CIRCUIT DESCRIPTION	LOAD TYPE	LOAD KVA	CKT BKR	P	CIR #	PH	CIR #	P	CKT BKR	LOAD KVA	LOAD TYPE	CIRCUIT DESCRIPTION
HOT WATER HEATER - LAUNDRY/JANITOR 226	MISC	15.00	70	3	1	A	2	3	175	34.76	COMB	PANEL CP-1
-	MISC	15.00	-	-	3	B	4	-	-	36.35	COMB	-
-	MISC	15.00	-	-	5	C	6	-	-	37.45	COMB	-
VRF UNIT VCU-FR-2C, 56.6 MCA	MISC	15.69	90	3	7	A	8	1	20			SPARE
-	MISC	15.71	-	-	9	B	10	1	20			SPARE
-	MISC	15.71	-	-	11	C	12	1	20			SPARE
SPARE			20	1	13	A	14	1	20			SPARE
SPARE			20	1	15	B	16	1	20			SPARE
SPARE			20	1	17	C	18	1	20			SPARE
SPARE			20	1	19	A	20	1	20			SPARE
SPARE			20	1	21	B	22	1	20			SPARE
SPARE			20	1	23	C	24	1	20			SPARE
SPARE			20	1	25	A	26	1	20			SPARE
SPARE			20	1	27	B	28	1	20			SPARE
SPARE			20	1	29	C	30	1	20			SPARE
SPARE			20	1	31	A	32	1	20			SPARE
SPARE			20	1	33	B	34	1	20			SPARE
SPARE			20	1	35	C	36	1	20			SPARE
SPARE			20	1	37	A	38	1	20			SPARE
SPARE			20	1	39	B	40	1	20			SPARE
SPARE			20	1	41	C	42	1	20			SPARE

ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS

LOAD SUMMARY:	LOAD TYPE:	CONNECTED	NEC DEMAND
LIGHTING	LTG	6.17 KVA	7.71 KVA (125%)
EV CHARGERS	EV	0.00 KVA	0.00 KVA (125 %)
SMALL APPLIANCE	RES	0.00 KVA	0.00 KVA (100/35/25 %)
LARGEST MOTOR		0.67 KVA	0.84 KVA (125%)
REMAINING MOTORS	MTR	0.06 KVA	0.06 KVA (100%)
GEN PURPOSE RECPT	REC	29.16 KVA	19.58 KVA (50% > 10KVA)
COMPUTER RECPT	MISC	0.00 KVA	0.00 KVA (100%)
EQUIP/OTHER	MISC	36.59 KVA	36.59 KVA (100%)
HEATING	MISC	92.11 KVA	92.11 KVA (100%)
ELEVATOR	ELEV	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	KITCH	35.91 KVA	23.34 KVA @ 65%
TOTALS		200.67 KVA	180.23 KVA
		241.36 AMPS	216.78 AMPS

LOAD TYPE NOTES:
"COMB" = COMBINATION LOAD TYPES ON INDICATED CIRCUIT
"RES" = RESIDENTIAL LTG/RECPT OR SMALL APPLIANCE LOAD TAKEN AT INDICATED DEMAND
"MISC" = EQUIP, COMPUTER REC OR HTG LOAD ON INDICATED CIRCUIT AT 100%

CONNECTED PHASE LOADING
PHASE A: 65.45 KVA
PHASE B: 67.06 KVA
PHASE C: 68.16 KVA

NOTES:
EQUIPMENT IN BOLD TO BE PROVIDED BY BRIGHT HORIZONS EC.
EQUIPMENT IN ITALICS TO BE PROVIDED BY S&C EC.

PANEL SCHEDULE

PANEL: **CP-1** | LOCATION: LEVEL 3 | VOLTS: 208 Y/ 120 P 3 W: 4
AMP: 400 | MLO [ ] | MCB [X] | FED FROM: HP-1 VIA T-BH1 | AIC RATING: | MOUNT: [ ] SURFACE [X] FLUSH
TYPE: EXISTING [ ] | NEW [X] | ENCLOSURE: NEMA 3R | NEUTRAL: 100% | [ ] IG BUS [ ] FTL

CIRCUIT DESCRIPTION	LOAD TYPE	LOAD KVA	CKT BKR	P	CIR #	PH	CIR #	P	CKT BKR	LOAD KVA	LOAD TYPE	CIRCUIT DESCRIPTION
DISHWASHER - INFANT-1 222	KITCH	0.83	20	1	1	A	2	2	15	0.23	MISC	FAN COIL UNIT FCU-1, 2.7A
RECEPTS (5) - INFANT-1 222	REC	0.90	20	1	3	B	4	-	-	0.23	MISC	-
RECEPTS (2) - INFANT-1 222 WORKSTATION	REC	0.36	20	1	5	C	6	2	15	0.23	MISC	FAN COIL UNIT FCU-2, 2.7A
RECEPTS (6) - TWOS-2 217	REC	1.08	20	1	7	A	8	-	-	0.23	MISC	-
RECEPTS (4) - TWOS-2 217,TWOS-3 221	REC	0.72	20	1	9	B	10	2	15	0.23	MISC	FAN COIL UNIT FCU-3, 3A
RECEPTS (5) - TWOS-1 215	REC	0.90	20	1	11	C	12	-	-	0.23	MISC	-
RECEPTS (4) - TWOS-1 215, TWOS-2 217 WORKSTATIONS	REC	0.72	20	1	13	A	14	2	15	0.23	MISC	FAN COIL UNIT FCU-4, 2.7A
RECEPTS (6) - TODDLER-4 211	REC	1.08	20	1	15	B	16	-	-	0.23	MISC	-
REFRIGERATOR - TODDLER-4 211	KITCH	0.83	20	1	17	C	18	2	15	0.40	MISC	FAN COIL UNIT FCU-5, 5.2A
RECEPTS (6) - TODDLER-3 210	REC	1.08	20	1	19	A	20	-	-	0.40	MISC	-
RECEPTS (6) - TODDLER-2 208	REC	1.08	20	1	21	B	22	2	15	0.40	MISC	FAN COIL UNIT FCU-6, 5.2A
REFRIGERATOR - TODDLER-2 208	KITCH	0.83	20	1	23	C	24	-	-	0.40	MISC	-
REFRIGERATOR - TODDLER-2 207	KITCH	0.83	20	1	25	A	26	2	15	0.23	MISC	FAN COIL UNIT FCU-7, 3.5A
RECEPTS (6) - TODDLER-1 207	REC	1.10	20	1	27	B	28	-	-	0.23	MISC	-
RECEPTS (2) - TODDLER-1 207	REC	0.36	20	1	29	C	30	2	15	0.23	MISC	FAN COIL UNIT FCU-8, 3.5A
RECEPTS (7) - ART ROOM 216 AND ADMIN OFFICE 204	REC	1.26	20	1	31	A	32	-	-	0.23	MISC	-
RECEPTS (6) - ADMIN OFFICE 204, DIRECTORS OFFICE 203, LRC 202	REC	1.08	20	1	33	B	34	2	15	0.23	MISC	FAN COIL UNIT FCU-9, 2.7A
RECEPTS (6) - LRC 202 AND RECEPTION 201	REC	1.08	20	1	35	C	36	-	-	0.23	MISC	-
RECEPTS (4) - RECEPTION 201 WORKSTATION	REC	0.72	20	1	37	A	38	1	20		MISC	SPARE
LIGHTING - CLASSROOMS, KITCHEN, STAFF LOUNGE, MVM	LTG	1.14	20	1	39	B	40	1	20		MISC	SPARE
LIGHTING - CLASSROOMS, TELE/DATA, STORAGE, TOILET	LTG	1.30	20	1	41	C	42	2	15	0.36	MISC	HRU-1, 3.44A
SPARE			20	1	43	A	44	-	-	0.36	MISC	-
LIGHTING - CLASSROOMS, CORRIDOR, LAUNDRY/JANITOR	LTG	1.30	20	1	45	B	46	2	15	0.71	MISC	HRU-2, 6.82A
LIGHTING - CLASSROOMS, CORRIDOR, SEAT STORAGE	LTG	1.40	20	1	47	C	48	-	-	0.71	MISC	-
LIGHTING - CLASSROOMS, OFFICES, LRC, RECEPTION	LTG	1.03	20	1	49	A	50	2	15	0.71	MISC	HRU-3, 6.82A
TRANSFER FAN - TF-1, 57W	MTR	0.06	20	1	51	B	52	-	-	0.71	MISC	-
SPARE			20	1	53	C	54	2	15	0.71	MISC	HRU-4, 6.82A
SPARE			20	1	55	A	56	-	-	0.71	MISC	-
REFRIRATOR - INFANT-1 222			20	1	57	B	58	2	15	0.58	MISC	HRU-5, 5.62A
COPER - LRC 202 - DED	MISC	1.20	20	1	59	C	60	-	-	0.58	MISC	-

ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS

LOAD SUMMARY:	LOAD TYPE:	CONNECTED	NEC DEMAND
LIGHTING	LTG	6.17 KVA	7.71 KVA (125%)
EV CHARGERS	EV	0.00 KVA	0.00 KVA (125 %)
SMALL APPLIANCE	RES	0.00 KVA	0.00 KVA (100/35/25 %)
LARGEST MOTOR		0.67 KVA	0.84 KVA (125%)
REMAINING MOTORS	MTR	0.06 KVA	0.06 KVA (100%)
GEN PURPOSE RECPT	REC	29.16 KVA	19.58 KVA (50% > 10KVA)
COMPUTER RECPT	MISC	0.00 KVA	0.00 KVA (100%)
EQUIP/OTHER	MISC	36.59 KVA	36.59 KVA (100%)
HEATING	MISC	0.00 KVA	0.00 KVA (100%)
ELEVATOR	ELEV	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	KITCH	35.91 KVA	23.34 KVA @ 65%
TOTALS		108.56 KVA	88.12 KVA
		301.33 AMPS	244.60 AMPS

LOAD TYPE NOTES:
"COMB" = COMBINATION LOAD TYPES ON INDICATED CIRCUIT
"RES" = RESIDENTIAL LTG/RECPT OR SMALL APPLIANCE LOAD TAKEN AT INDICATED DEMAND
"MISC" = EQUIP, COMPUTER REC OR HTG LOAD ON INDICATED CIRCUIT AT 100%

CONNECTED PHASE LOADING
PHASE A: 34.76 KVA
PHASE B: 36.35 KVA
PHASE C: 37.45 KVA

NOTES:
1 NOTES

PANEL SCHEDULE

PANEL: **CP-2** | LOCATION: LEVEL 2 | VOLTS: 208 Y/ 120 P 3 W: 4
AMP: 400 | MLO [X] | MCB [ ] | FED FROM: 2F3NA3 | AIC RATING: | MOUNT: [ ] SURFACE [X] FLUSH
TYPE: EXISTING [ ] | NEW [X] | ENCLOSURE: NEMA 3R | NEUTRAL: 100% | [ ] IG BUS [ ] FTL

CIRCUIT DESCRIPTION	LOAD TYPE	LOAD KVA	CKT BKR	P	CIR #	PH	CIR #	P	CKT BKR	LOAD KVA	LOAD TYPE	CIRCUIT DESCRIPTION
REFRIGERATOR - INFANT-3 224			20	1	1	A	2	2	30	2.50	MISC	DRYER - LAUNDRY/JANITOR 226
DISHWASHER - KITCHEN 245	KITCH	1.20	20	1	3	B	4	-	-	2.50	MISC	-
FREEZER - KITCHEN 245	KITCH	1.20	20	1	5	C	6	2	30	2.50	MISC	DRYER - LAUNDRY/JANITOR 226
ELECTRIC RANGE - KITCHEN 245	KITCH	4.55	50	2	7	A	8	-	-	2.50	MISC	-
-	KITCH	4.55	-	-	9	B	10	1	20	1.80	MISC	WASHER - LAUNDRY/JANITOR 226
ELECTRIC RANGE - KITCHEN 245	KITCH	4.55	50	2	11	C	12	1	20	1.80	MISC	WASHER - LAUNDRY/JANITOR 226
-	KITCH	4.55	-	-	13	A	14	1	20	0.40	MISC	CIRC PUMP - LAUNDRY/JANITOR 226
EXHAUST HOOD - KITCHEN 245	KITCH	3.80	40	2	15	B	16	1	20	0.36	MISC	WATER FOUNTAINS (2) - CORRIDOR
-	KITCH	3.80	-	-	17	C	18	1	20	1.00	REC	SMARTBOARD - KINDERGARTEN PREP-1 237
GARBAGE DISPOSAL - KITCHEN 245	KITCH	0.56	20	2	19	A	20	1	20	0.18	REC	RECEPT (1) - PRESCHOOL-1 236
-	KITCH	0.56	-	-	21	B	22	1	20	0.83	KITCH	DISHWASHER - INFANT-3 224
MICROWAVE - KITCHEN 245	KITCH	1.61	20	1	23	C	24	1	20	1.10	REC	RECEPTS (5) - INFANT-3 224
RECEPTS (2) - KITCHEN 245 WORKSTATION	REC	0.36	20	1	25	A	26	1	20	0.72	REC	RECEPTS (4) - INFANT-2 223, INFANT-3 224 WORKSTATION
RECEPTS (7) - KITCHEN 245 AND CORRIDOR	REC	1.30	20	1	27	B	28	1	20	0.90	REC	RECEPTS (5) - INFANT-2 223
RECEPTS (6) - STAFF LOUNGE 241	REC	1.08	20	1	29	C	30	1	20	0.83	KITCH	DISHWASHER- INFANT-2 223
RECEPTS (6) - MOVEMENT MATTERS 236 AND BATHROOM	REC	1.26	20	1	31	A	32	1	20	0.67	MTR	EXHAUST FAN EF-1, 1/2HP
RECEPTS (7) - KINDERGARTEN PREP-1 237	REC	1.26	20	1	33	B	34	1	20	1.20	REC	TBB - TELE/DATA 228 - DED
RECEPTS (4) - K PREP-1 237 AND PRESCHOOL-2 235	REC	0.72	20	1	35	C	36	1	20	1.20	REC	TBB - TELE/DATA 228 - DED
RECEPTS (6) - PRESCHOOL-1 239 AND TWOS-4 223	REC	1.08	20	1	37	A	38	1	20	1.20	REC	TBB - TELE/DATA 228 - DED
RECEPTS (4) - PRESCHOOL-1 233 AND TWOS-4 223	REC	0.72	20	1	39	B	40	2	20	0.02	MISC	HRB-2C-1
RECEPTS (2) - ELEC ROOM 238	REC	0.36	20	1	41	C	42	-	-	0.02	MISC	-
MAKEUP AIR UNIT MAU-1, 27.8MCA	MISC	3.34	40	3	43	A	44	2	20	0.02	MISC	HRB-2C-2
-	MISC	3.34	-	-	45	B	46	-	-	0.02	MISC	-
-	MISC	3.34	-	-	47	C	48	2	20	0.02	MISC	HRB-2C-3
SPARE			20	1	49	A	50	-	-	0.02	MISC	-
SPARE			20	1	51	B	52	1	20			SPARE
SPARE			20	1	53	C	54	1	20			SPARE
SPACE			-	-	55	A	56	1	20			SPARE
SPACE			-	-	57	B	58	1	20			SPARE
SPACE			-	-	59	C	60	1	20			SPARE

ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS

LOAD SUMMARY:	LOAD TYPE:	CONNECTED	NEC DEMAND
LIGHTING	LTG	0.00 KVA	0.00 KVA (125%)
EV CHARGERS	EV	0.00 KVA	0.00 KVA (125 %)
SMALL APPLIANCE	RES	0.00 KVA	0.00 KVA (100/35/25 %)
LARGEST MOTOR		0.67 KVA	0.84 KVA (125%)
REMAINING MOTORS	MTR	0.00 KVA	0.00 KVA (100%)
GEN PURPOSE RECPT	REC	15.64 KVA	12.82 KVA (50% > 10KVA)
COMPUTER RECPT	MISC	0.00 KVA	0.00 KVA (100%)
EQUIP/OTHER	MISC	24.50 KVA	24.50 KVA (100%)
HEATING	MISC	0.00 KVA	0.00 KVA (100%)
ELEVATOR	ELEV	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	KITCH	32.59 KVA	21.18 KVA @ 65%
TOTALS		73.40 KVA	59.34 KVA
		203.74 AMPS	164.72 AMPS

LOAD TYPE NOTES:
"COMB" = COMBINATION LOAD TYPES ON INDICATED CIRCUIT
"RES" = RESIDENTIAL LTG/RECPT OR SMALL APPLIANCE LOAD TAKEN AT INDICATED DEMAND
"MISC" = EQUIP, COMPUTER REC OR HTG LOAD ON INDICATED CIRCUIT AT 100%

CONNECTED PHASE LOADING
PHASE A: 23.91 KVA
PHASE B: 24.36 KVA
PHASE C: 25.13 KVA

NOTES:
1 NOTES

ELECTRICAL HOUSE PANEL SCHEDULES
SCALE:1'-0" = 1'-0"

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18 JANUARY 2018

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KIRKLAND, WA 98033

ELECTRICAL HOUSE PANEL SCHEDULES

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.30

Lighting Summary — LGT-SUM

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Info

Compliance forms do not require a password to use. Instructional and calculating cells are write-protected.

Project Title:	1 - This title will copy onto other forms
Applicant Information. Provide contact information for individual who can respond to inquiries about compliance form information provided.	
Company Name:	Rushing Company
Company Address:	1725 Westlake Ave N, Suite 300, Seattle, WA 98109
Applicant Name:	Rushing Company
Applicant Phone:	206-285-7100
Applicant Email:	tma@rushingco.com

Date: 1/18/2018

For Building Department Use

Project Description

☐ New Building ☐ Addition ☑ Alteration ☑ Plans Included

Include PROJ-SUM form (included in envelope forms workbook) with lighting compliance forms.

Building Additions

Refer to Section C502.2.6 for additional requirements.

Compliance Method	Interior lighting	Exterior lighting
Lighting systems in addition area comply with all applicable provisions as a stand alone new construction project	☐	☐
Lighting systems in addition are combined with existing building lighting systems to demonstrate compliance	☑	☐

Addition is combined with existing:
*For **interior** lighting projects, include new + existing interior lighting fixture wattage in Proposed Lighting Wattage table in LTG-INT-BLD or LTG-INT-SPACE form.*
*For **exterior** lighting projects, include new + existing exterior lighting fixture wattage in Proposed Tradable and Proposed Non-Tradable Lighting Wattage tables in LTG-EXT form.*

Interior and Exterior Lighting Alterations

Select all Lighting Power and Lighting Control elements that apply to the scope of the retrofit project. If project includes a combination of spaces where less than 50% of the existing fixtures are replaced in some spaces, and 50% or more of the fixtures are replaced in others, then provide separate lighting power compliance forms for the two retrofit conditions. Spaces undergoing the same type of retrofit may be combined into one lighting power compliance form.

Refer to Section C503.6 for additional requirements.

All alteration lighting controls shall be commissioned per C408.3.

Lighting Power	Interior lighting	Parking garage	Exterior lighting
50% or more of existing are replaced	☑	☐	☐
Less than 50% of existing are replaced	☐	☐	☐
Lamp and/or ballast replacement only -- existing total wattage not increased	☐	☐	☐

50% or more replaced *- Total lighting power of new + existing-to-remain fixtures shall comply with total LPA per Sections C405.4.2 and C405.5.2. Include new + existing-to-remain fixtures in Proposed Lighting Wattage table in LTG-INT-BLD, LTG-INT-SPACE or LTG-EXT form.*

Less than 50% replaced *- Total lighting power of new + existing-to-remain fixtures shall not exceed the total lighting power prior to alteration. Include new + existing-to-remain fixtures in the Proposed Lighting Wattage table in LTG-INT-BLD, LTG-INT-SPACE or LTG-EXT form.*

50% threshold *applies to number of luminaires for interior spaces and parking garages, and total installed wattage for exterior luminaires.*

Lighting Controls	Interior lighting	Parking garage	Exterior lighting
New wiring installed to serve added fixtures and/or fixtures relocated to new circuit(s)	☑	☐	☐
New or moved lighting panel	☑	☐	☐
Interior space is reconfigured -- luminaires unchanged or relocated	☐		

New wiring or circuit *- For interior lighting, provide required manual controls per C405.2.3, occupancy sensor controls per C405.2.1, daylight responsive controls per C405.2.4 and application specific lighting controls per C405.2.5. For exterior lighting, provide required controls per C405.2.7.*

New or moved panel *- Provide all applicable lighting controls as noted for New Wiring and automatic time switch controls per C405.2.2.*

Reconfigured interior space *- Provide all required lighting controls that apply to a new interior space. Application specific lighting control provisions per C405.2.5 do not apply to reconfigured*

☐ ***No changes are being made to the interior or exterior lighting systems and existing space uses and configuration are not changed.***

Change of Space Use

☐ Existing interior lighting systems in areas under-going a change in space use are upgraded to comply with LPAs for the new space types per Tables C405.4.2(1) or C405.4.2(2).

Identify interior spaces requiring LPD upgrade to the current Code in Proposed Lighting Wattage table in LTG-INT-BLD or LTG-INT-SPACE form.

Lighting Summary, cont. — LGT-SUM

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out at top of LGT-SUM — Date: 1/18/2018

Interior Lighting System Description	
Interior Lighting Power Allowance Method	☑ Building Area Method ☐ Space-by-space Method *Select method used in project.*
Interior Lighting Controls	☑ All C405.2.1 - C405.2.8 Controls ☐ C405.2 Exception 5 Luminaire Level Lighting Control (LLLC) ☐ Additional Efficiency Package Option C406.4 Enhanced digital lighting controls *To comply with C406.4, no less than 90% of the total installed interior lighting power shall comply with required controls per C406.4.*
Dwelling Unit Interior Lighting	*Permanently installed interior lighting fixtures in dwelling units comply with:* ● ○ C405.2 thru C405.5 Commercial Lighting Controls and LPA ○ C406.3 High Efficacy Lighting ○
Exterior Lighting System Description	

Interior Lighting - Building Area Method — LTG-INT-BLD

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out on LGT-SUM — Date: 1/18/2018

For Building Department Use

Calculation Area NOTE 8

○ ○ Addition - stand alone ● Addition + existing

○ Spaces where < 50% of luminaires are replaced ○ Spaces where ≥ 50% of luminaires are replaced ○

LPA Calculation Type

● Standard ○ Additional Efficiency Package Option C406.3 Reduced Interior Lighting Power ○

To comply with C406.3, the Proposed LPD shall be 25% lower than the Target LPA. Refer to C406.3 for additional requirements.

Maximum Allowed Lighting Wattage NOTE 1

Building Area	Location (plan #, room #, or ALL)	Area Description	Gross Interior Area in ft²	Allowed Watts per ft²	Watts Allowed (watts/ft² x area)
School/university	LEVEL L2	Daycare Facility	14600	0.70	10220
Office	LEVEL L2	Offices	400	0.66	264
		Total:	15000		

Proposed Lighting Wattage

Building Area	Location (plan #, room #)	Fixture Description NOTE 2, 3, 4, 5	Number of Fixtures	Watts per Fixture NOTE 6	Watts Proposed
School/university	LEVEL L2	A, AX, 2'X4' fixture	142	40	5680
Office	LEVEL L2	A, AX, 2'X4' fixture	6	40	240
Office	LEVEL L2	X1 Exit Sign	1	3	3
School/university	LEVEL L2	A2, 2'x2' fixture	15	40	600
School/university	LEVEL L2	B, Wall Sconce	6	36	216
School/university	LEVEL L2	C, light pendant	3	10	29
School/university	LEVEL L2	D, 4' LED strip	4	42	168
School/university	LEVEL L2	U, Undercabinet LED	71	1.3	89
School/university	LEVEL L2	X1, Exit Signs	50	3	150

Compliance by Building Area NOTE 7

Building Area	Warnings	Total Allowed Watts	Total Proposed Watts	Interior Lighting Power Allowance
School/university		10220	6931	COMPLIES
Office		264	243	COMPLIES
	Total:	10484	7174	

Note 1 - List all unique building areas per Table C405.4.2(1) that occur in the project scope. Select building area category from drop down menu.
Note 2 - Proposed fixtures must be listed in the building area in which they occur. List all proposed lighting fixtures including exempt lighting equipment and existing-to-remain fixtures.
Note 3 - For proposed Fixture Description, indicate fixture type, lamp type (e.g. T-8), number of lamps in the fixture, and ballast type (if included).
For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.
Note 4 - For lighting equipment eligible for exemption per C405.4.1, note exception number and leave Watts/Fixture blank.
Note 5 - Existing-to-remain fixtures shall be included in the Proposed Lighting Wattage table in the same manner as new fixtures. Identify as existing in fixture description.
Note 6 - For proposed Watts/Fixture enter the luminaire wattage for installed lamp and ballast using manufacturer or other approved source. For luminaires with screw-in lamps, enter the manufacturer's listed maximum input wattage of the fixture (not the lamp wattage). For low voltage lighting, enter the wattage of the transformer. For line voltage track/busway systems, enter the larger of the attached luminaire wattage or 50 watts/lineal foot, or enter the wattage limit of permanent current limiting device.
Note 7 - Proposed Wattage for each Building Area type shall not exceed the Allowed Wattage for that Building Area type. Trading wattage between Building Area types is not allowed under the Building Area Method compliance path.
Note 8 - Calculation Area Details:
a. Lighting fixtures in a building addition may comply as a stand alone project, or they may be combined with the overall existing building

ENERGY CODE FORMS

SCALE: NTS

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City of Kirkland
Reviewed by AHaupt
06/21/2018

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KIRKLAND, WA 98033

ENERGY CODE FORMS

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.60

Lighting, Motor, and Electrical Permit Checklist, Pg. 1 — LTG-CHK

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out on LGT-SUM — Date 1/18/2018

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
LIGHTING CONTROLS					
YES	C405.2	Lighting controls, general	For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken	E0.80	
YES	C405.2	Luminaire level lighting controls (LLLC)	Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters	E0.80	
NA	C405.1	Lighting in dwelling units	For permanently installed lighting fixtures in dwelling units, indicate lighting control method on plans for spaces and lighting zone(s) served, or demonstrate compliance with high efficacy exception		
YES	C405.2.3 C405.2.1.1 C405.2.2.2 C405.2.4 C405.2.5	Manual controls	Indicate on plans the method of manual lighting control (whether combined with occupancy sensor, automatic light reduction, daylight responsive or specific application controls), location of manual control device and area or specifice application it serves	E0.80, E3.00	
YES	C405.2.2.1 C405.2.2.2 C405.2.3	Manual interior lighting controls	Indicate on plans which method of manual 50% lighting load reduction is provided, or whether lighting load is reduced via occupancy sensors or daylight responsive controls	E0.80, E3.00	
YES	C405.2.2	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor or time switch) for all lighting zones;	E0.80, E3.00	
			Indicate locations where automatic shutoff is provided by other methods (occupancy sensor or digital timer switch) or which time switch control exception applies	E0.80, E3.00	
YES	C405.2.1 C405.2.1.1	Occupancy sensor controls	Indicate on plans the spaces served by occupancy sensors;	E3.00	
			Indicate whether occupancy sensor controls are configured to be manual-on, automatic 50%-on, or serve a space eligible for automatic 100%-on per exception	E0.80, E3.00	
NA	C405.2.1.2	Occupancy sensor controls - warehouses	Indicate aisleways and open areas in warehouse spaces provided with occupancy sensor controls that reduce lighting power by 50%		
YES	C405.2.6	Digital timer switch	Indicate required digital timer switch control function when control is used	E0.80, E3.00	
YES	C405.2.2.1	Automatic time switch controls	Indicate locations of override switches on plans and the lighting zone(s) served, include area sq. ft.	E0.80, E3.00	
YES	C405.2.4.2 C405.2.4.3	Daylight zones - Sidelight and toplight	Indicate primary and secondary sidelight daylight zone areas on plans, include sq. ft.;	E3.00	
			Indicate toplight daylight zone areas on plans, include sq. ft.;	E3.00	
			For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone) where daylight responsive controls are not required, provide fenestration area to daylight zone calculation(s)	E3.00	
YES	C405.2.4	Daylight responsive controls	Indicate on plans lighting zone(s) served by daylight responsive controls;	E0.80, E3.00	
			Identify sidelight and toplight daylight zones that are not provided with daylight sensing controls and the exception(s) that apply;	E0.80, E3.00	
			Indicate on plans the lighting load reduction method - continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power;	E0.80, E3.00	
			Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone	E0.80, E3.00	
YES	C405.2.5	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section	E0.80, E3.00	
YES	C405.2.5 - Items 1&2	Display and accent lighting	Indicate on plans that display and accent lighting, and display case lighting are controlled independently from both general area lighting and other lighting applications within the same space;	E0.80, E3.00	
			Indicate manual and automatic lighting control method	E0.80, E3.00	

Lighting, Motor, and Electrical Permit Checklist, Pg. 2 — LTG-CHK

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out on LGT-SUM — Date 1/18/2018

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
NA	C405.2.5 - Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest room		
YES	C405.2.5 - Item 4	Supplemental task lighting	Indicate method and location of automatic shut-off vacancy control for supplemental task lighting, including under-shelf or under-cabinet lighting	E0.80, E3.00	
NA	C405.2.5 - Item 5	Lighting for non-visual applications	Indicate on plans eligible non-visual lighting applications, include sq. ft. area of each lighting control zone; Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space;		
			Indicate method of manual lighting control and applicable automatic lighting control		
NA	C405.2.5 - Item 6	Lighting equipment for sale or demonstration	Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space; Indicate method of manual lighting control and applicable automatic lighting control		
YES	C405.2.5 - Item 7	Means of egress lighting	Identify on plans egress fixtures that function as both normal and emergency means of egress illumination;	E0.80, E3.00	
			Provide calculation of lighting power density of total egress lighting;	E0.80, E3.00	
			If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during unoccupied periods;	E0.80, E3.00	
			Indicate method of automatic shut-off control	E0.80, E3.00	
NA	C405.2.7	Exterior lighting controls	Indicate on exterior lighting plans and fixture schedules the automatic lighting control method, control sequence, and locations served; For building façade and landscape lighting, indicate automatic controls shut off lighting as a function of dawn/dusk and fixed opening/closing time; For all other exierior lighting, indicate automatic controls shut off lighting as a function of available daylight; include control sequence that also reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor		
NA	C405.5.1	Exterior building grounds lighting controls	For building grounds fixtures greater than 100 watts, indicate on plans whether fixtures have efficacy greater than 80 lumens or; are controlled by motion sensor, or are exempt lighting per C405.5.2		
YES	C405.2.5	Area controls - Master control switches and circuit power limit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch;	E0.80, E3.00	
			Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%	E0.80, E3.00	
NA	C406.4	Enhanced digital lighting controls	To comply with additional efficiency package option, indicate on plans all interior lighting fixtures that are individually addressed and provided with continuous dimming, or exception taken;		
			Include calculation of percent total installed interior lighting power that is configured with required enhanced lighting control functions (min 90% to comply with additional efficiency package option)		
NA	C405.13 C408.3	Lighting system functional testing	If claiming lighting system commissioning exemption provide supporting calculation;		
			Identify applicable commissioning documentation requirements per Section C408 or eligibility for exception; Provide written procedures for functional testing of all automatic controls and describe the expected system response		

Lighting, Motor, and Electrical Permit Checklist, Pg. 3 — LTG-CHK

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out on LGT-SUM — Date 1/18/2018

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
INTERIOR LIGHTING POWER & EFFICACY					
YES	C405.4.1 C405.4.1 C405.4.2	Total connected interior lighting power	Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture;	E0.80	
			Identify spaces eligible for lighting power exemption on plans and in compliance forms; indicate the exception applied;	E3.00	
			Identify lighting equipment eligible for lighting power exemption in fixture schedule and in compliance forms; indicate the exception applied;	E0.80, E3.00	
			Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently	E0.80, E3.00	
YES	C405.3	Exit signs	Indicate location of exit signs on plans and rated watts per fixture in lighting fixture schedule (maximum 5 watts per fixture)	E0.80, E3.00	
NA	C405.1	Lighting in dwelling units – lamp efficacy	If high efficacy exception is applied to permanently installed lighting fixtures in dwelling units, indicate in lighting fixture schedule if lamps in fixtures are high efficacy per R404.1. Calculate percentage of fixtures with high efficacy lamps in project (min 75% to comply with exception).		
NA	C406.3	Reduced lighting power density - dwelling unit lamp efficacy	For project with dwelling units, to comply with additional efficiency package option indicate in lighting fixture schedule if lamps in fixtures have efficacy rating of 60 lumens per watt or more. Calculate percentage of fixtures with lamps that have this efficacy rating (min 95% to comply with option).		
	Lighting Power Calculation - Indicate compliance path taken				
YES	C405.4.2.1	Building Area Method	Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans	E0.60, E0.70	
NA	C405.4.2.2	Space-By-Space Method	Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage. Identify locations of space types on plans, including retail display areas, lobby art & exhibit display areas, and ceiling heights as applicable		
NA	C406.3	Reduced lighting power density	To comply with additional efficiency package option, demonstrate in compliance forms that total connected interior lighting wattage is 75% less than the total maximum allowed lighting wattage via Building Area Method or Space-By-Space Method		
EXTERIOR LIGHTING POWER & EFFICACY					
NA	C405.5.2	Total connected exterior lighting power	Include all luminaires in lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's rated watts per fixture; Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; indicate exception applied;		
			Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting; include exception claimed for each fixture or group of fixtures under exception category		
NA	Table C405.5.2(1)	Exterior lighting zone	Indicate building exterior lighting zone as defined by the AHJ		
NA	C405.5.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts that are complying based on efficacy, indicate rated lamp efficacy (in lumens per watt) in fixture schedule		
NA	C405.5.2	Exterior lighting power calculations	Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed		

Lighting, Motor, and Electrical Permit Checklist, Pg. 4 — LTG-CHK

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2, R3, R4 over 3 stories and all R1 — Revised August 2016

Project Title: Fill this line out on LGT-SUM — Date 1/18/2018

The following information is necessary to check a permit application for compliance with the lighting, motor, and electrical requirements in the Washington State Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	Building Department Notes
MOTORS & TRANSFORMERS					
NA	C405.6	Electrical tranformers	Include electrical transformer schedule on electrical plans; indicate transformer size, efficiency, or exception taken		
NA	C405.7	Dwelling unit electrical energy consumption	Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter		
NA	C405.8	Electric motor efficiency	Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate hp, rpm, rated efficiency, or exception applied		
NA	C405.9.1	Elevator cabs	For luminaires in each elevator cab, provide calculated average efficacy of combined fixtures that indicates efficacy is not less than 35 lumens per watt;		
			Indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfm;		
			Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoocupied for a period of 15 minutes or more		
NA	C405.9.2	Escalators and moving walks	Indicate escalators comply with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use		
NA	C405.9.3	Regenerative drive	Indicate all one-way down or reversible escalators are provided with a variable frequency regenerative drive		
NA	C405.10	Controlled receptacles	Identify all controlled and uncontrolled receptables on electrical plans in each space in which they are required; include receptacle configuration such as spacing between controlled and uncontrolled, duplex devices, etc; Indicate on plans whether the method of automatic control for each controlled receptable zone is by occupant sensor or programmable time-of-day control		

If "no" is selected for any question, provide explanation:

End of Lighting, Motor & Transformer Permit Documents Checklist

ENERGY CODE FORMS
SCALE: 1'-0" = 1'-0"

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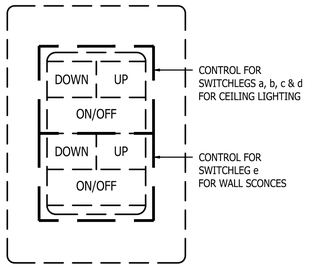
FAMILY SOLUTIONS

KIRKLAND URBAN
425 URBAN PLAZA
KIRKLAND, WA 98033

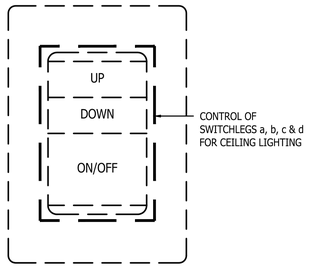
ENERGY CODE FORMS

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.70



SWITCH FACEPLATE DIAGRAM FOR INFANT CLASSROOMS



SWITCH FACEPLATE DIAGRAM FOR TYPICAL CLASSROOMS

LIGHTING CONTROL PANEL SCHEDULE - KIRKLAND

RELAY NUMBER	AREA SERVED	TC1	TC2	TC3	TC4	TC5	OVER RIDES	NOTES
1	LEVEL L1 CORRIDOR LIGHTING	X			X	NS1 NS2, NS3		
2	LEVEL L2 CORRIDOR LIGHTING	X			X	NS1 NS2, NS3		
3	PLAYGROUND LIGHTING							NOTE 1
4	BUILDING EXTERIOR							NOTE 1
5	RECEPTION LIGHTING	X			X	NS4, NS5		
6	EXTERIOR SIGNAGE	X	X	X		X		
7	SPARE							
8	SPARE							

NOTES

1 EXTERIOR LIGHTING TO BE PROVIDED AS PART OF SHELL AND CORE.

TC: TIMECLOCK CONTROL

NS: NIGHTSWITCH - SEE PLANS FOR LOCATIONS.

LIGHTING CONTROL PANEL SEQUENCE OF OPERATION		
TC1	5:30 AM	LIGHTS ON / (NORMAL HOURS)
TC2	DAWN	LIGHTS OFF
TC3	DUSK	LIGHTS ON
TC4	6:30 PM	LIGHTS OFF / (AFTER HOURS)
TC5	12:00 AM	LIGHTS OFF
NS1	AFTER HOURS	ON - 60 MINUTES
NS2	AFTER HOURS	ON - 60 MINUTES
NS3	AFTER HOURS	ON - 60 MINUTES
NS4	AFTER HOURS	ON - 60 MINUTES
NS5	AFTER HOURS	ON - 60 MINUTES

LIGHTING CONTROL SEQUENCE OF OPERATIONS

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

LIGHTING CONTROL SEQUENCE OF OPERATIONS

ROOM	CONTROL TYPE	TECHNOLOGY	SWITCH TYPE	ZONES	NOTES
PRIVATE OFFICES	OCCUPANCY SENSOR	DIGITAL	ON/OFF/ DIMMING	DAYLIGHT ZONE 1 - SWITCHLEG a DAYLIGHT ZONE 2 - SWITCHLEG b GENERAL ROOM ZONE - SWITCHLEG c EGRESS FIXTURE - SWITCHLEG d	-WALL SWITCH TO PROVIDE MANUAL DIMMING FOR ALL FIXTURES (SWITCHLEGS a, b, c). -AUTOMATIC DIMMING PER WSEC 2015 FOR FIXTURES IN DAYLIGHT ZONE 1 AND 2 (SWITCHLEGS a & b) CONTROLLED BY DAYLIGHT SENSOR. -OCCUPANCY SENSOR TO TURN OFF ALL NON-EGRESS LIGHTING AFTER 30 MINUTES OF VACANCY (SWITCHLEGS a, b, & c) AND REDUCE EGRESS FIXTURE (SWITCHLEG d) TO 50% LIGHT LEVELS. -WALL SWITCH TO PROVIDE MANUAL ON TO 50% LIGHT LEVEL OF ALL NON-EGRESS FIXTURES (SWITCHLEGS a, b & c). -ONE EGRESS FIXTURE (SWITCHLEG d) TO BE DIMMABLE WITH ROOM LIGHTING AND REMAIN ON 24/7, REDUCED TO 50% LIGHT LEVELS UPON VACANCY.
CORRIDORS	TIMECLOCK WALL SWITCH	DIGITAL	OVERRIDE ON		-TIME CLOCK VIA LIGHTING CONTROL PANEL TO CONTROL ALL CORRIDOR LIGHTING. CORRIDOR FIXTURES TO STAY ON DURING BUSINESS HOURS. -NIGHT SWITCHES AT ALL CORRIDOR ENTRY/EXIT DOORS FOR 1-HOUR OVERRIDE ON FOR AFTER-HOURS OPERATION. -EGRESS FIXTURES TO REMAIN ON 24/7. -FIXTURES LOCATED WITHIN DAYLIGHT ZONES TO BE CONTROLLED BY LOCAL DAYLIGHT SENSOR.
CLASSROOMS - GENERAL	OCCUPANCY SENSOR DAYLIGHT SENSOR WALL SWITCH	DIGITAL	ON/OFF/ INTELLIGENT DIMMING	DAYLIGHT ZONE 1 - SWITCHLEG a DAYLIGHT ZONE 2 - SWITCHLEG b GENERAL ROOM ZONE - SWITCHLEG c EGRESS FIXTURE - SWITCHLEG d	-WALL SWITCH TO PROVIDE MANUAL DIMMING FOR ALL CEILING FIXTURES (SWITCHLEGS a, b, c, & d). -AUTOMATIC DIMMING PER WSEC 2015 FOR FIXTURES IN DAYLIGHT ZONE 1 AND 2 (SWITCHLEGS a & b) CONTROLLED BY DAYLIGHT SENSOR. -OCCUPANCY SENSOR TO TURN OFF ALL NON-EGRESS LIGHTING AFTER 30 MINUTES OF VACANCY (SWITCHLEGS a, b, & c) AND REDUCE EGRESS FIXTURE (SWITCHLEG d) TO 50% LIGHT LEVELS. -WALL SWITCH TO PROVIDE MANUAL ON TO 50% LIGHT LEVEL OF ALL NON-EGRESS FIXTURES (SWITCHLEGS a, b & c). -ONE EGRESS FIXTURE (SWITCHLEG d) TO BE DIMMABLE WITH ROOM LIGHTING AND REMAIN ON 24/7, REDUCED TO 50% LIGHT LEVELS UPON VACANCY.
CLASSROOMS - INFANTS	OCCUPANCY SENSOR DAYLIGHT SENSOR WALL SWITCH	DIGITAL	ON/OFF/ INTELLIGENT DIMMING	DAYLIGHT ZONE 1 - SWITCHLEG a DAYLIGHT ZONE 2 - SWITCHLEG b GENERAL ROOM ZONE - SWITCHLEG c EGRESS FIXTURE - SWITCHLEG d INFANT AREA - SWITCHLEG e	-WALL SWITCH TO PROVIDE MANUAL DIMMING FOR ALL CEILING FIXTURES (SWITCHLEGS a, b, c, & d). -AUTOMATIC DIMMING PER WSEC 2015 FOR FIXTURES IN DAYLIGHT ZONE 1 AND 2 (SWITCHLEGS a & b) CONTROLLED BY DAYLIGHT SENSOR. -OCCUPANCY SENSOR TO TURN OFF ALL NON-EGRESS LIGHTING AFTER 30 MINUTES OF VACANCY (SWITCHLEGS a, b, c & e) AND REDUCE EGRESS FIXTURE (SWITCHLEG d) TO 50% LIGHT LEVELS. -WALL SWITCH TO PROVIDE MANUAL ON TO 50% LIGHT LEVEL OF ALL NON-EGRESS CEILING FIXTURES (SWITCHLEGS a, b & c). -ONE EGRESS FIXTURE (SWITCHLEG d) TO BE DIMMABLE WITH ROOM LIGHTING AND REMAIN ON 24/7, REDUCED TO 50% LIGHT LEVELS UPON VACANCY. -WALL SWITCH TO PROVIDE SEPARATE CONTROL OF WALL SCONCES (SWITCHLEG e) WITH INDEPENDENT DIMMING CAPABILITIES.
RESTROOMS, JANOTOR CLOSETS, BACK OF HOUSE SPACES - AS SHOWN ON DRAWINGS	OCCUPANCY SENSOR	DIGITAL	STANDALONE ON /OFF		-OCCUPANCY SENSOR TO TURN OFF ALL FIXTURES AFTER 30 MINUTES OF VACANCY. -WALL SWITCH TO PROVIDE MANUAL ON AND OFF. -LOCATE SWTICH ADJACENT TO ROOM ENTRY.

NOTE:
NOT ALL SWITCHLEGS ARE PRESENT IN EVERY SPACE AS DESCRIBED ABOVE. THIS SEQUENCE OF OPERATION IS TO DESCRIBE THE BASIC FUNCTIONS AND MINIMAL REQUIREMENTS FOR EACH TYPE OF SPACE.
REFER TO PLANS FOR SPECIFIC SWITCHING SCHEME FOR EACH INDIVIDUAL SPACE.

LIGHTING FIXTURE SCHEDULE

FIXTURE IDEN	AREA	DESCRIPTION	MANUFACTURER	MODEL NUMBER	VOLTAGE	INPUT WATTAGE
A	CLASSROOMS, CORRIDORS, BOH, GENERAL LTG	2'x4' ACRYLIC LENS LED LIGHT FIXTURE - RATED FOR USE IN DAMP LOCATION	LITHONIA	2GTL-4-60L-A19-E21-LP835	MVOLT	40
AX	CLASSROOMS, CORRIDORS, BOH, GENERAL LTG	4' PENDANT LED LIGHT FIXTURE - RATED FOR USE IN DAMP LOCATION - EMERGENCY	LITHONIA	2GTL-4-60L-A19-E21-LP835-EL14L	MVOLT	40
A2	CLASSROOMS, CORRIDORS, BOH, GENERAL LTG	2'x2' ACRYLIC LENS LED LIGHT FIXTURE - RATED FOR USE IN DAMP LOCATION	LITHONIA	2GTL-2-40L-A19-E21-LP835	MVOLT	39.6
B	INFANT ROOMS - CRIB AREA	WALL SCONCE / AMERICAN FLUORESCENT	LITHONIA	DLSD17 BN P01	120V	36
C	RECEPTION	DECORATIVE LED PENDANT	LITHONIA	MDPB-BPN PROVIDE W/SHADE - DGDT 1003	120V	9.5
D	STORAGE	4' SURFACE MOUNTED LENSED LED STRIP	LITHONIA	ZL2N-L4630000LM-MVOL-35K-80CRI-WH	MVOLT	42
EX	STAIRWELL	4' PENDANT LED LIGHT FIXTURE - RATED FOR USE IN DAMP LOCATION - EMERGENCY	LITHONIA	GRD LSL 4FT MSL4 80CRI 35K ID1300LMF 20/80 MIN1 ZT 120 SCT 1E7W F2/48A C210	120V	40
U	CLASSROOM FOOD PREP STATIONS	UNDER CABINET LED	LITHONIA	UCLD 24IN 30K 90CRI SWR WH	120V	12.5
X1	EXIT PATHS	SINGLE-FACE EXIT LIGHTING WITH DIRECTIONAL ARROWS AS REQUIRED FOR EXIT PATHWAYS	LITHONIA	EDG 1 R EL	120V	3
X2	EXIT PATHS	DUAL-FACE EXIT LIGHTING WITH DIRECTIONAL ARROWS AS REQUIRED FOR EXIT PATHWAYS	LITHONIA	EDG 2 R EL	120V	3

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City of Kirkland
Reviewed by AHaupt
06/21/2018

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01/18/18

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Bright Horizons
FAMILY SOLUTIONS

KIRKLAND URBAN
425 URBAN PLAZA
KIRKLAND, WA 98033

LIGHTING CONTROL SEQUENCE OF OPERATIONS

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E0.80

GENERAL NOTES:

1. PROVIDE (3)#12 AWG TO ALL WIRING DEVICES UNO.
2. MOUNT ALL TEACHER WORK STATION(TWS) RECEPTACLES AND DATA/PHONE OUTLETS AT +44"AFF.
3. ALL RECEPTACLES SHALL BE TAMPER PROOF TYPE EXCEPT IN KITCHEN, LAUNDRY, STORAGE, AND ELEC ROOMS UNO.
4. FIRE ALARM DEVICES SHOWN FOR SCHEMATIC INTENT. FINAL DESIGN TO BE COMPLETED BY SELECTED FIRE ALARM SUBCONTRACTOR.
5. TO COMPLY WITH WSEC C405.10 CONTROLLED RECEPTACLES: AT LEAST 50% OF ALL RECEPTACLES INSTALLED IN PRIVATE OFFICES, OPEN OFFICES, CONFERENCE ROOMS, AND BREAK ROOMS SHALL BE CONTROLLED BY AN OCCUPANCY SENSOR WHICH TURNS OFF POWER TO THE RECEPTACLE WHEN SPACE HAS BEEN UNOCCUPIED FOR 20 MINUTES. CONTROLLED RECEPTACLES SHALL BE VISIBLY DIFFERENTIATED FROM STANDARD RECEPTACLES PER NEC 406 3 E.
6. WAP TO BE MOUNTED AT 96" AFF.
7. ROOFTOP HVAC EQUIPMENT SUPPLYING BUILDING IS EXISTING AND PROVIDED BY S&C.

FLAG NOTES:

1. UNDERCOUNTER REFRIGERATOR.
2. ELECTRIC RANGE. PROVIDE 3/4"C, 3#6, & 1#10G. FIELD VERIFY NEMA PLUG REQUIREMENT.
3. DISHWASHER.
4. GARBAGE DISPOSAL, 208V-1PH, 1HP. PROVIDE ON/OFF SWITCH IF DEVICE DOES NOT HAVE PUSH BUTTON.
5. REFRIGERATOR/FREEZER - MOUNT RECEPTACLE AT +42" AFF. PROVIDE 115/208-230/1 NEMA-14-20R CONNECTION.
6. REFRIGERATOR.
7. PROVIDE 120V DEDICATED RECEPTACLE FOR MICROWAVE. COORDINATE EXACT LOCATION WITH ARCHITECT.

FLAG NOTES:

8. PROVIDE 208V CONNECTION, 40A BREAKER, FOR INDUSTRIAL EXHAUST HOOD. PROVIDE WALL-MOUNTED MRSS AT ACCESSIBLE LOCATION FOR CONTROL OF EXHAUST FAN AND HOOD LIGHTING. MC TO PROVIDE MEANS FOR INTERCONNECTION. EC TO COORDINATE REQUIREMENTS WITH MC.
9. ELECTRIC STRIKE AT EXTERIOR DOORS FOR ENTRY BUZZER LOCATED AT RECEPTION. COORDINATE EXACT LOCATIONS AND ELECTRICAL REQUIREMENTS WITH ARCHITECTURAL. PROVIDE POWER SUPPLY.
10. COORDINATE EXACT LOCATION OF ROOFTOP VRF UNIT WITH S&C DRAWINGS.
11. PROVIDE DED RECEPTACLE AND DATA CONNECTION FOR COPIER.
12. NOT USED.
13. NOT USED.
14. NOT USED.
15. WASHER - PROVIDE DEDICATED OUTLET.

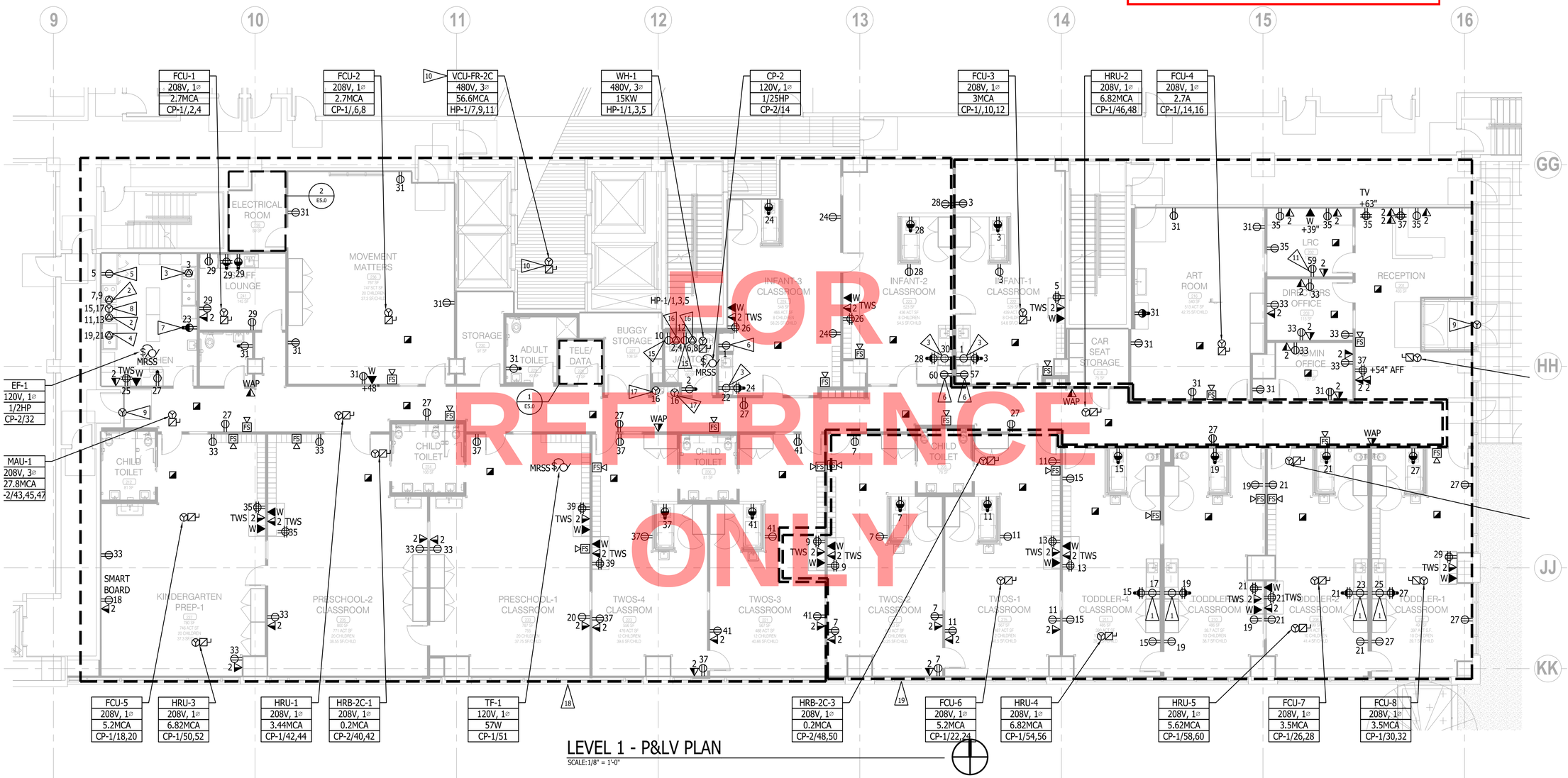
FLAG NOTES:

16. DRYER - PROVIDE 3/4"C, 3#10, & 1#10G. FIELD VERIFY NEMA PLUG REQUIREMENT.
17. PROVIDE 120V CONNECTION FOR WATER FOUNTAIN.
18. ALL POWER AND LOW VOLTAGE FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-2 UNLESS OTHERWISE SPECIFIED.
19. ALL POWER AND LOW VOLTAGE FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1.

Controlled Receptacles shall be installed per WSEC C405.10

Occupancy Sensor Controls shall be installed per WSEC C405.2.1

Daylight Responsive Controls shall be installed per WSEC C405.2.4, C405.2.4.1 & C405.2.4.1.1.



LEVEL 1 - P&LV PLAN
SCALE:1/8" = 1'-0"

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LEVEL 1 - P&LV PLAN

SCALE:
DRAWN: TMA
CHECKED: HMK
PROJECT NO: 1732-00

E2.00

GENERAL NOTES:

1. SWITCHING AND DIMMING TO CONFORM TO WSEC 2015 REQUIREMENTS.
2. ALL EXIT SIGNS SHALL BE FIELD INSPECTED WITH BUILDING INSPECTOR.
3. SEE LIGHTING FIXTURE SCHEDULE AND LIGHTING CONTROL SEQUENCES ON SHEET E0.80 FOR CONTROLS INTENTION IN EACH SPACE.
4. CORRIDOR AND RECEPTION LIGHTING TO BE ON TIMECLOCK WITH DAYLIGHT SENSOR OVERRIDES SHOWN ON SHEET E0.80.
5. TYPE U FIXTURE HAS INTEGRAL ROCKER SWITCH FOR INDEPENDENT CONTROL FROM CLASSROOM SWITCHING SYSTEM AND IS ALSO TIED TO OCCUPANCY SENSOR CONTROLS FOR AUTOMATIC CODE REQUIRED SHUTOFF.
6. COORDINATE MOUNTING OF A AND A2 FIXTURES WITH EXISTING AND NEW HVAC SYSTEMS LOCATIONS. LAYOUT REFLECTS ACCOMMODATIONS FOR INTENDED HVAC EQUIPMENT. EC TO CONFIRM FIXTURE LOCATIONS WILL NOT INTERFERE WITH EXISTING MECHANICAL EQUIPMENT. ENSURE PENDANT-MOUNTED FIXTURES WILL NOT BE AFFECTED BY HVAC REGISTERS AND AIR FLOW.

FLAG NOTES:

1. ALL LIGHTING FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1/39.
2. ALL LIGHTING FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1/41.
3. ALL LIGHTING FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1/45.
4. ALL LIGHTING FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1/47.
5. ALL LIGHTING FIXTURES LOCATED WITHIN DESIGNATED DASHED LINES TO BE FED BY CP-1/49.

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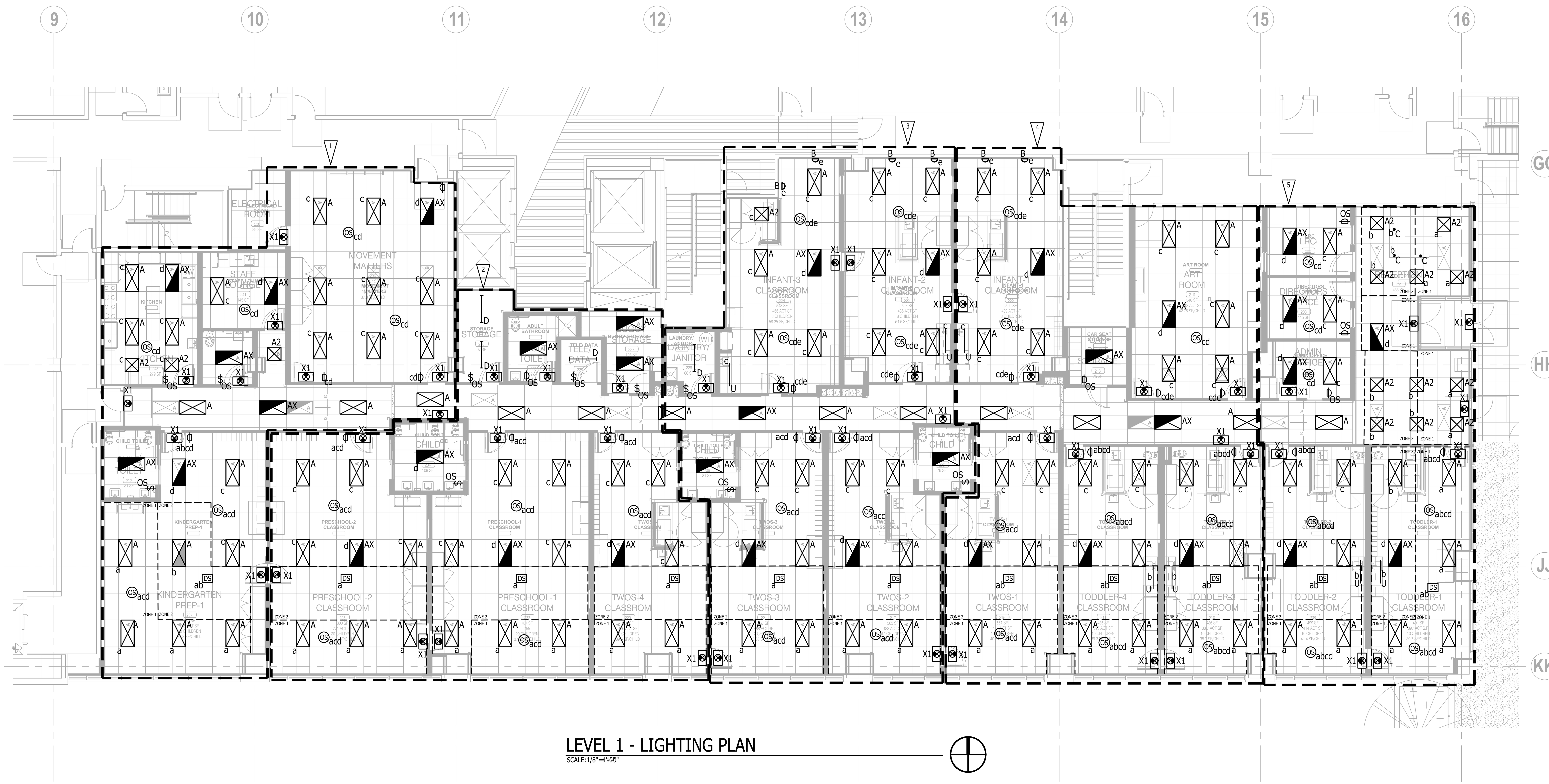

LEVEL 1 - LIGHTING PLAN
SCALE: 1/8"=1'0"

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LEVEL 1 - LIGHTING PLAN

SCALE:	
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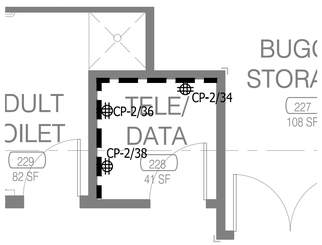
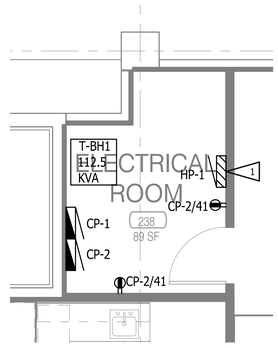
CHECKED:	HMK
PROJECT NO:	1732-00

E3.00



1 ENLARGED TELECOM ROOM PLAN

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



2 BRIGHT HORIZONS ELECTRICAL ROOM

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

FLAG NOTES:

1 PANEL HP-1 IN ROOM IS EXISTING. REFER TO SHELL AND CORE DRAWINGS FOR FINAL LAYOUT.

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ENLARGED ELECTRICAL ROOMS

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E5.00