State of Wyoming
Office of Construction Management
Wyoming Capitol Square
Series 3 - Herschler Building - Core and Shell
SD OWNER REVIEW

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

Herschler Building Project Location
122 West 25th Street
Cheyenne, Wyoming 82002

HDR Project No. 203619
Date: 10/30/2014

PRELIMINARY - NOT FOR CONSTRUCTION

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Schematic Design

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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	09/02/14 -
PKG. IDENTIFIER	3

CONSULTANT LIST & PROJECT ENDORSEMENTS

SCALE

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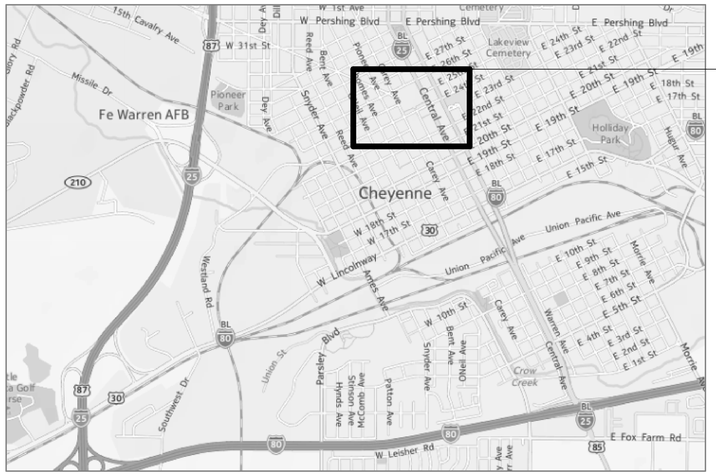
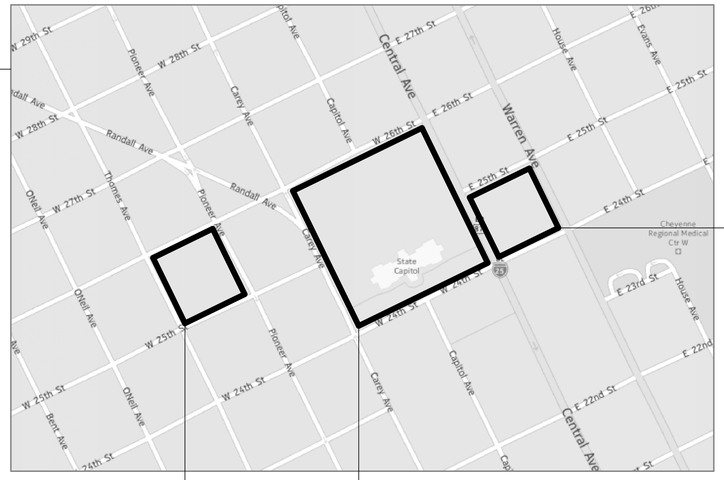
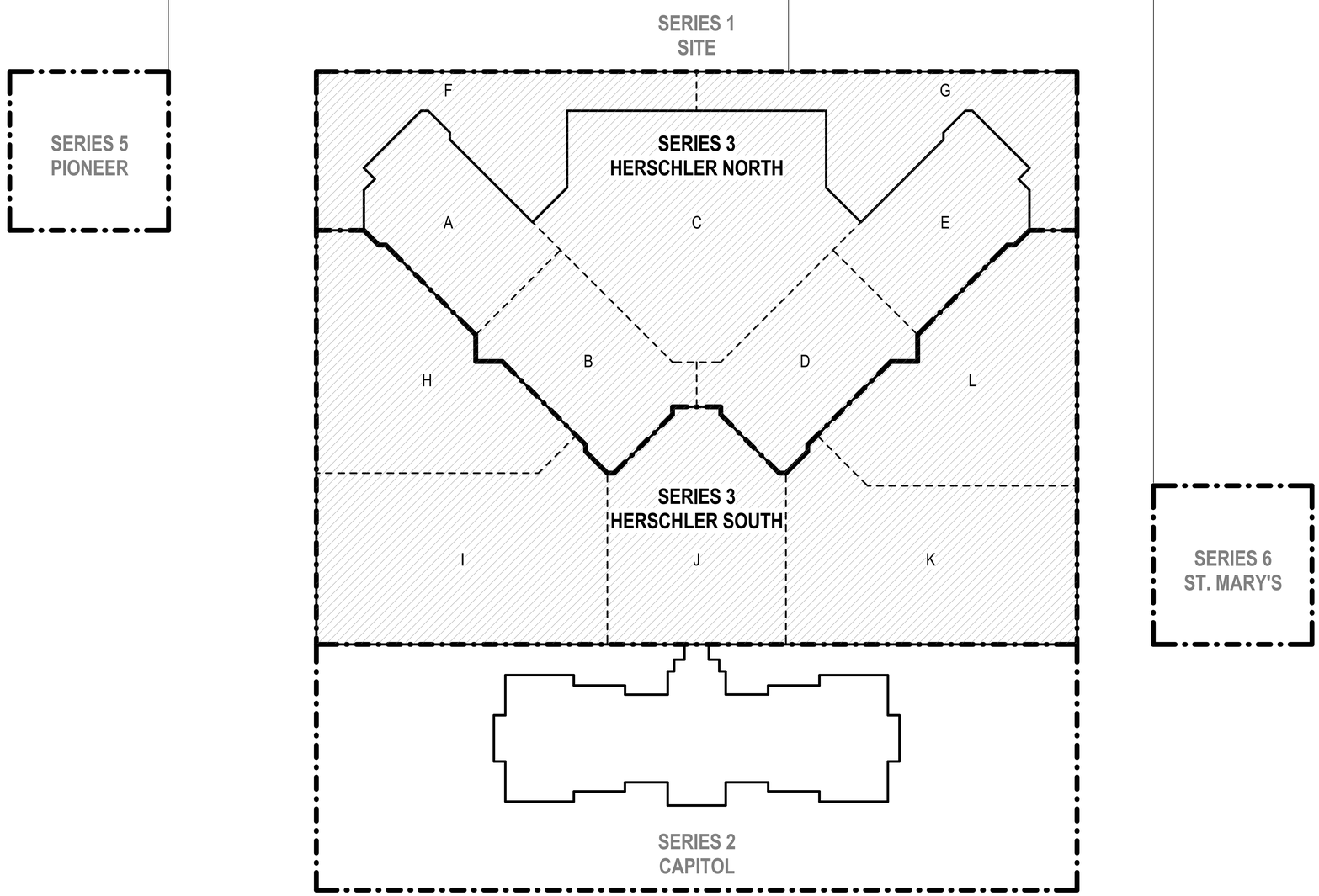


PROJECT LOCATION - AERIAL - OVERALL
Cheyenne, Wyoming



PROJECT LOCATION - AERIAL - ENLARGED
122 West 25th Street
Cheyenne, Wyoming 82002



DRAWING SERIES KEY PLAN

PN TN

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

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1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/17/14 -
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DRAWING SERIES
KEY PLAN

SCALE

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3PP101	OVERALL PLAN - LOWER LEVEL 1 - SOUTH
3PP110	OVERALL PLAN - LEVEL 1 - NORTH
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3MD120	OVERALL DEMOLITION PLAN - LEVEL 2 - NORTH
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3MH100	OVERALL PLAN - LOWER LEVEL 1 - NORTH - DUCTWORK
3MH101	OVERALL PLAN - LOWER LEVEL 1 - SOUTH - DUCTWORK
3MH110	OVERALL PLAN - LEVEL 1 - NORTH - DUCTWORK
3MH120	OVERALL PLAN - LEVEL 2 - NORTH - DUCTWORK
3MH130	OVERALL PLAN - LEVEL 3 - NORTH - DUCTWORK
3MH140	OVERALL PLAN - LEVEL 4 - NORTH - DUCTWORK
3MH150	OVERALL PLAN - ROOF - NORTH - DUCTWORK
3MP10L	OVERALL PLAN - LOWER LEVEL 2 - SOUTH - PIPING
3MP100	OVERALL PLAN - LOWER LEVEL 1 - NORTH - PIPING
3MP101	OVERALL PLAN - LOWER LEVEL 1 - SOUTH- PIPING
3MP110	OVERALL PLAN - LEVEL 1 - NORTH - PIPING
3MP120	OVERALL PLAN - LEVEL 2 - NORTH - PIPING
3MP130	OVERALL PLAN - LEVEL 3 - NORTH - PIPING
3MP140	OVERALL PLAN - LEVEL 4 - NORTH - PIPING
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3ED110	OVERALL DEMOLITION POWER PLAN - LEVEL 1 - NORTH
3ED120	OVERALL DEMOLITION POWER PLAN - LEVEL 2 - NORTH
3ED130	OVERALL DEMOLITION POWER PLAN - LEVEL 3 - NORTH
3ED140	OVERALL DEMOLITION POWER PLAN - LEVEL 4 - NORTH
3ED150	OVERALL DEMOLITION POWER PLAN - ROOF - NORTH
3ED200	OVERALL DEMOLITION LIGHTING PLAN - LOWER LEVEL 1 - NORTH
3ED201	OVERALL DEMOLITION LIGHTING PLAN - LOWER LEVEL 1 - SOUTH
3ED210	OVERALL DEMOLITION LIGHTING PLAN - LEVEL 1 - NORTH
3ED220	OVERALL DEMOLITION LIGHTING PLAN - LEVEL 2 - NORTH
3ED230	OVERALL DEMOLITION LIGHTING PLAN - LEVEL 3 - NORTH
3ED240	OVERALL DEMOLITION LIGHTING PLAN - LEVEL 4 - NORTH
3EP010	OVERALL PLAN - SITE
3EP10L	OVERALL PLAN - LOWER LEVEL 2 - SOUTH
3EP100	OVERALL PLAN - LOWER LEVEL 1 - NORTH
3EP101	OVERALL PLAN - LOWER LEVEL 1 - SOUTH
3EP110	OVERALL PLAN - LEVEL 1 - NORTH
3EP120	OVERALL PLAN - LEVEL 2 - NORTH
3EP130	OVERALL PLAN - LEVEL 3 - NORTH
3EP140	OVERALL PLAN - LEVEL 4 - NORTH
3EP150	OVERALL PLAN - ROOF - NORTH
3EC010	OVERALL PLAN - SITE
3EC10L	OVERALL COMMUNICATION PLAN - LOWER LEVEL 2 - SOUTH
3EC100	OVERALL COMMUNICATION PLAN - LOWER LEVEL 1 - NORTH
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TWO-CHARACTER DISCIPLINE IDENTIFIERS

General
GG Cover Sheet and Organization Plan
GI General Index and Information
GC General Code
GL Life Safety

Civil
CE Civil Existing
CD Civil Demolition
CG Civil Grading
CS Civil Site
CI Civil Site Improvement Overall
CU Civil Utilities

Landscape
LS Landscape Site

Structural
SF Structural As Found
ST Structural

Architectural
AS Architectural Site
AF Architectural As-Found
AP Architectural Preservation Zones
AD Architectural Selective Removal or Demolition
AE Architectural Exteriors
AI Architectural Interiors
AC Architectural Ceilings
AR Architectural Roof

Fire and Life Safety
FI Fire Alarm and Protection Index and Abbreviations
FA Fire Alarm
FP Fire Protection
FX Fire Alarm and Protection Details, Diagrams, Schematics, and Schedules

Plumbing
PI Plumbing Index and Abbreviations
PD Plumbing Selective Removal or Demolition
PP Plumbing Piping
PG Plumbing Gas
PX Plumbing Details, Diagrams, and Schedules

Mechanical
MI Mechanical Index and Abbreviations
MD Mechanical Selective Removal or Demolition
MH Mechanical HVAC
MP Mechanical Piping
MX Mechanical Details, Diagrams, and Schedules

Electrical
EI Electrical Index and Abbreviations
ED Electrical Selective Removal or Demolition
ES Electrical Site
EL Electrical Lighting
EP Electrical Power
EC Electrical Communications
EY Electrical Security
EX Electrical Details, Diagrams, Schematics, and Schedules.

Interiors
IN Interiors (Finishes)
IA Interior Artwork
IC Interior Casework
IF Interior Furnishings

THREE-DIGIT SHEET NUMBERS

100-series overall floor plans
100A-L-series enlarged floor plans

200-series overall elevations - north
230-series overall elevations - south
250-series enlarged floor plans - north
270-series enlarged floor plans - south

300-series overall building sections
310-series enlarged building sections - north
320-series enlarged building sections - south
350-series wall sections - north
380-series wall sections - south

400-series correlated detail plans, interior elevations, and sections

500-series general details
510-series exterior plan details
530-series exterior section details
560-series interior plan details
580-series interior section details

600-series exterior assemblies
610-series interior assemblies
620-series schedules

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DRAWING SHEET INDEX

SCALE

3GI001

Schematic Design

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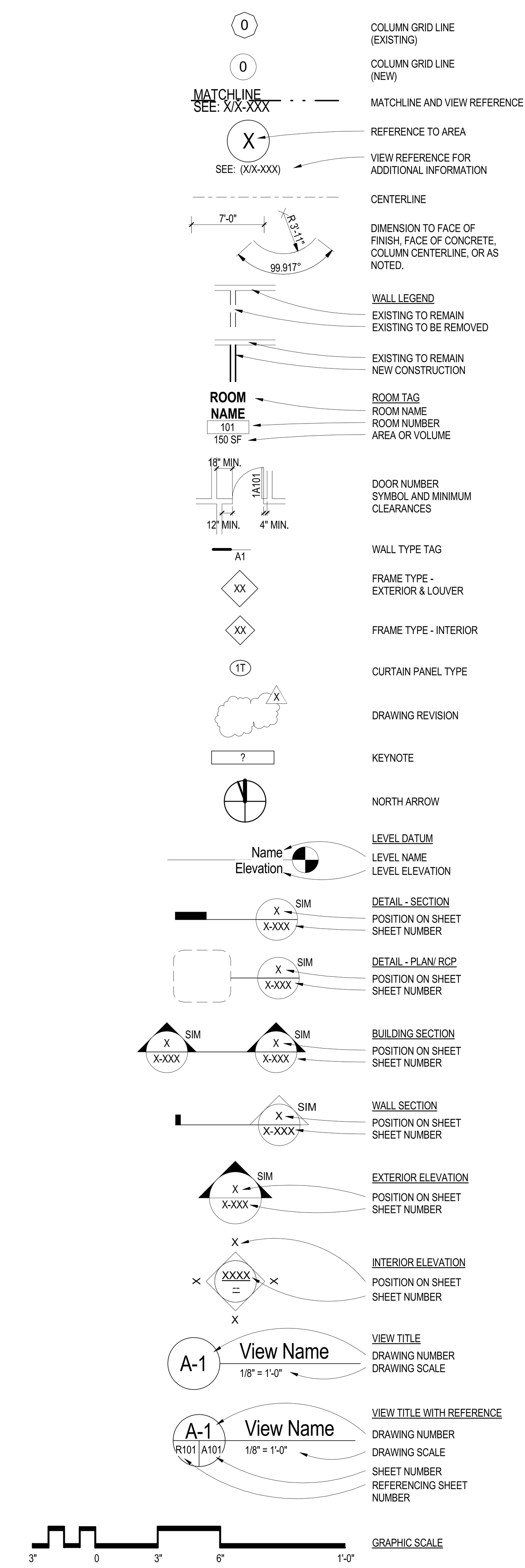
ABBREVIATIONS

AB	ANCHOR BOLT, AUGER BORING
ABS	AIR BREAK SWITCH
AC	AIR CONDITIONING, ASBESTOS CEMENT, ACRES
A/C	ASPHALTIC CONCRETE
ACB	AIR CIRCUIT BREAKER
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
ACST	ACOUSTIC
AD	AREA DRAIN, ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AL	ALUMINUM
AM	ACOUSTIC MATERIAL
AMP,A	AMPERE
AP	ACCESS PANEL APPROX APPROXIMATE
ARCH	ARCHITECTURAL
ARR	ARRESTOR
ASPH	ASPHALT
B	BASELINE
BO	BOARD
BEJ	BRICK EXPANSION JOINT
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
B	BOTTOM
BRG	BEARING
BR	BOTTOM REGISTER
BSMT	BASEMENT
C	CELSIUS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CD	CEILING DIFFUSER
CEM	CEMENT
CG	CORNER GUARD
C&G	CURB AND GUTTER
CH	CHILLER
CI	CAST IRON, COURTYARD INLET
CIP	CAST IRON PIPE, CAST IN PLACE
CIR	CIRCULATING
CJ	CONTROL JOINT
CKT	CIRCUIT
CLG	CEILING
C	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNITS
CND,C	CONDUIT
CNDS	CONDENSATE
CO	CLEANOUT
CODP	CLEANOUT W/ DECK PLUG
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
COND	CONDUCTOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONV	CONVERTER
COP,CU	COPPER
CP	NON-REINFORCED CONCRETE PIPE
CR	CHAIR, CRASH RAIL
CRS	STAINLESS STEEL
CS	CONCRETE SEALER/SURFACE
CSK	COUNTERSUNK
CT	CERAMIC TILE, CURRENT TRANSFORMER, COOLING TOWER
CTR	CENTER, COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CW	COLD WATER
CWB	CAPILLARY WATER BARRIER
CONTR	CONTRACTION
CPT	CARPET
D	DEPTH, DEEP, DEGREE OF CURVATURE
DB	DRY BULB, DECIBEL, DIRECT BURIAL
DD	DIVERSION DIKE
DET	DETAIL
DH	DRILL HOLE
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DMPR	DAMPER
DN	DOWN
DP	DISTRIBUTION PANEL
DS	DOWNSPOUT, STORM DRAINAGE STRUCTURE
DW	DOMESTIC WATER
DWG	DRAWING
DWD	DRINKING WATER DISPENSER
E	EAST
EA	EACH
EAN	EXCEPT AS NOTED
EAT	ENTERING AIR TEMPERATURE
EC	EMPTY CONDUIT
EF	EACH FACE, EXHAUST FAN
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EMER	EMERGENCY
E/P	EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
EVAP	EVAPORATIVE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FIRE, FUSE, FILTER
FA	FIRE ALARM FABX FIRE ALARM BOX
FD	FLOOR DRAIN, FIRE DAMPER
FDN	FOUNDATION
FDR	FEEDER
FE	FIRE EXTINGUISHER
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH
FL	FLOOR, FLASHING, FLOW LINE
FLUOR	FLUORESCENT
4 WAY	FOUR WAY
FPH	FROST PROOF HYDRANT
FR	FRAME
FS	FULL SIZE
FTG	FOOTING
FJ	FELT JOINT
FW	FIRE WATER
FXTR	FIXTURE

G	GROUND, GAS LINE,GRAM
GA	GAGE
GAL	GALVANIZED
GC	GLAZED COATING
GFI	GROUND FAULT INTERRUPT
GFMU	GROUND FACE MASONRY UNIT
GL	GLASS
GR	GRADE
GRD	GROUND
GSU	GLAZED STRUCTURAL UNIT
GW	GROUND WATER
GWB	GYPSUM WALL BOARD GYP GYPSUM
HGT,H	HEIGHT, HUMIDIFIER
HB	HOSE BIBB
HC	HANDICAPPED
HD	HARD DRAWN
HDW	HARDWARE
HGSW	HORN GAP SWITCH
HID	HIGH INTENSITY DISCHARGE
HORIZ	HORIZONTAL
HP	HIGH POINT
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HS	HIGH STRENGTH
HW	HOT WATER, HEADWALL
HWL	HIGH WATER LEVEL
HVY	HEAVY
HZ	HERTZ
ID	INSIDE DIAMETER, INSIDE DIMENSION
IE	INVERT ELEVATION
IMC	INTERMEDIATE METAL CONDUIT
INT	INTERIOR
INSUL	INSULATION, INSULATED
INV	INVERT
INTX	INTERSECTION
IP	INLET PROTECTION
IRBF	INDUSTRIAL RESIN BASE FLOORING
JB	JUNCTION BOX
JC	JANITOR CLOSET
JCT	JUNCTION
JT	JOINT
JST	JOIST
K	KILO
KIAC	THOUSAND AMP INTERRUPT CAPACITY
KCP	KEENE'S CEMENT PLASTER
KG	KILOGRAM
KN	KILONEWTON
KO	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
L/S	LITERS PER SECOND
L	LOUVER, LENGTH, LENGTH OF CURVE
LA	LIGHTNING ARRESTOR
LC	LEAD COVERED
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LAV	LAVATORY VERTICAL
LVC	LENGTH OF VERTICAL CURVE
M/S	METERS PER SECOND
M	METER, MEGA
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
ECH	MECHANICAL
MET	METAL
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MM,mm	MILLIMETER
MO	MOTOR OPERATED, MASONRY OPENING, MIDDLE ORDINATE
MP	MEDIUM PRESSURE
MTD	MOUNTED
MTG	MOUNTING
MMP	MEMBRANE WATERPROOFING
MULL	MULLION
N	NORTH
NA	NOT APPLICABLE
NC	NON CORROSIVE
NE	NORTHEAST
NDC	NOSE DOWN CURB
NEC	NATIONAL ELECTRIC CODE
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPS	NOMINAL PIPE SIZE
NTS	NOT TO SCALE
NW	NORTHWEST
OA	OUTSIDE AIR
OC	ON CENTER
OCB	OIL CIRCUIT BREAKER
OD	OUTSIDE DIAMETER OPNG OPENING
OPP	OPPOSITE
OSD	OPEN SITE DRAIN
OVHD,OH	OVERHEAD
Pa	PASCALES
P	PIPE, POLE
PB	PULL BOX
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PJF	PREFORMED JOINT FILLER
PL	PLATE
PLAS	PLASTER
PLNJ	PAPER AND LEAD NEOPRENE JACKET
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRIM	PRIMARY
PRV	PRESSURE RELIEF VALVE
PS	PULL SWITCH
PT	POINT, POINT OF TANGENT
PTN	PARTITION
PVC	POINT OF VERTICAL CURVE, POLY VINYL CHLORIDE .
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT PVMT PAVEMENT

QT	QUARRY TILE
R	RADIUS, RISER, RUBBER SHEATH
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT VINYL BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RECP	RECEPTACLE
RED	REDUCING
REINF	REINFORCEMENT
REG	REGULATOR, REGISTER
REQD	REQUIRED
REV	REVISION
RF	ROOF, RETURN FAN
RHC	REHEAT COIL
RI	RUBBER INSULATED
RGS	RIGID GALVANIZED STEEL
RL	RAIN LEADER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RVT	RESILIENT VINYL TILE
S	SECOND, SOUTH, SANITARY, SEWER, STRUCTURE
SAN	SANITARY SEWER
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SCH	SCHEDULE
SD	SPLITTER DAMPER, STORM DRAIN
SE	SOUTHEAST
SECT	SECTION SERV SERVICE SF SILT FENCE
SG	SUPPLY GRILLE
SH	SHEET
SIM	SIMILAR
1 PH	SINGLE PHASE
SKCP	SUSPENDED KEENE'S CEMENT PLASTER
SL	SLOPE
SMH	SANITARY MODULE
SP	STATIC PRESSURE, SINGLE POLE
SPC	SUSPENDED PLASTER CEILING
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SQ	SQUARE
SR	SUPPLY REGISTER
SS	SANITARY SEWER
ST	STEAM, SINGLE THROW, STREET
STA	STATION STD STANDARD
STL	STEEL SUP SUPPORT
SUSP	SUSPENDED
SV	SHEET VINYL
SW	SWITCH, SIDEWALK
SWBD	SWITCHBOARD SWGR SWITCHGEAR
T	TILE,TOP,TANGENT
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
TERM	TERMINAL
3/C	THREE CONDUCTOR
3/P	THREE POLE
3 WAY	THREE WAY
TH	TOTAL HEAD (PUMPS)
THRSLD	THRESHOLD
TO	TOP OF
TP	TEST PIT
TR	TOP REGISTER
TRANS	TRANSITION
TS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UCR	UNDER COUNTER REFRIGERATOR
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VENT,VOLT,VALVE
VA	VOLT AMPRE
VAC	VACUUM
VCT	VINYL COMPOSITION TILE
V ASB	VINYL ASBESTOS
VC	VARNISH CAMBRIC, VITRIFIED CLAY
VCP	VITRIFIED CLAY PIPE
VENT	VENTILATING
VERT	VERTICAL
VEST	VESTIBULE
VPI	VERTICAL POINT OF INTERSECTION
VPOC	VERTICAL POINT OF CURVE
VPOT	VERTICAL POINT OF TANGENT
VS	VENT STACK
VTR	VENT THRU ROOF
VWC	VINYL WALL COVERING
W	WIDTH,WASTE,WATER,WATT,WEST
W	WIRE, WATER LINE STRUCTURE
WA	WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WD	WIDTH, WINDOW DIMENSION
WOM	WALK OFF MATT
WL	WATER LEVEL WP WATERPROOF, WEATHERPROOF
WS	WASTE STACK, WATER SURFACE, WATERSTOP
WT	WEIGHT
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER
X-STR	UNIT HEATER
2:1 SL	2 HORIZONTAL TO 1 VERTICAL SLOPE
1 ON 2	1 VERTICAL ON 2 HORIZONTAL SLOPE
△	DEFLECTION ANGLE
Ø	DIAMETER, PHASE

ARCHITECTURAL SYMBOLS



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State of Wyoming

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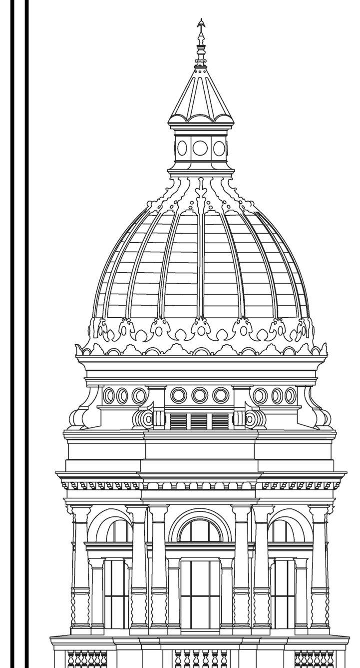


Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ONE ARCHITECTS

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

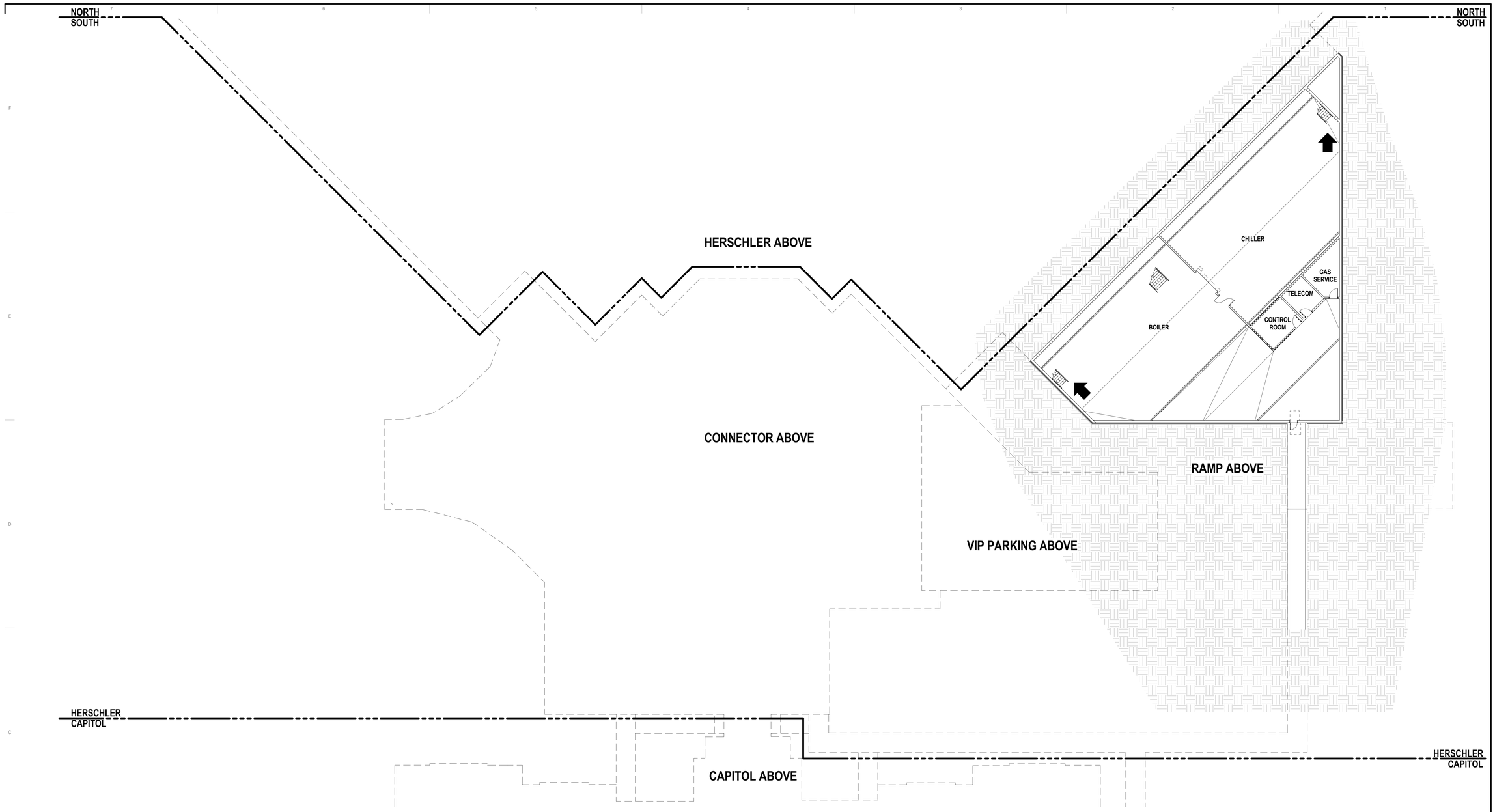
PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

ABBREVIATIONS, SYMBOLS, & GENERAL NOTES

SCALE	1/8" = 1'-0"

3GI004

Schematic Design



CODE REVIEW per the 2012 Building Code

Jurisdiction: City of Cheyenne
Building Location: 122 West 25th Street, Cheyenne, Wyoming 82002
Description: 4 story office building over a 1 story, below grade parking structure, including an underground central utility plant and an underground connetctor that includes programatic space.

Codes
2012 International Existing Building Code
2012 International Building Code
2012 International Fire Code
2012 International Plumbing Code
2012 International Mechcanical Code
2012 International Electrical Code
2009 ICC A117.1

Occupancy Classification

A-3 Occupancy
B Occupancy
S-2 Occupancy
Incidental Use *;**
* limited to 10% of story
** Central Utility Plant (CUP) is incidental in accordance with IBC 509

Building Construction

Type: I-B Sprinklered, non-separated mixed use

Fire Resistance Rating Reqmts.
Table 601

Type I-B Sprinklered
Construction Rating in Hours

Structural Frame	2 (a)
Bearing Walls - Exterior	2
Bearing Walls - Interior	2 (a)
Non Bearing Walls - Exterior	0*
Non Bearing Walls - Interior	0
Floor Construction	2
Roof Construction	1 (b,c)

* 0 Hr. Exterior wall based on FSD (fire separation distance) >30'

Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3

Section 713

Shaft, Exit enclosures,	2	1.5

Additional Rated Assemblies

Electrical Rooms (NEC)	1	45min
Generator Room	2	1.5
Elevator Machine Room	2	1.5

Fire Partitions

	Assembly Rating Min.	Fire Door Rating
Other Partitions	1	45 min

1005.1 Egress Width req'd for Egress Components

Stair = Occ. @ .2" / Occ.
Door = Occ. @ .15"/Occ.

1014.3 Exit Access Common path of Travel

Occupancy A with Sprinkler	75' (a,b)
Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

Occupancy A with Sprinkler	250'
Occupancy B with Sprinkler	300'
Occupancy S-2 with Sprinkler	400'

1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
In Occupancy B & S-2 with sprinkler system this is increased to 50'.

1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
Occupancy 501 - 1000	3
Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	**B**	**C**
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LOWER LEVEL 2 - SOUTH
1/16" = 1'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
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7. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL EQUIPMENT SPECIFIC INFORMATION.
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13. ALL SMOKE BARRIER WALLS ARE TO EXTENDED FROM BACK SIDE OF EXTERIOR WALL SHEATHING TO BACK SIDE OF EXTERIOR WALL SHEATHING OR ANOTHER SMOKE BARRIER WALL.

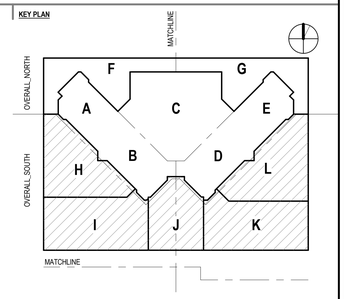
CONSTRUCTION NOTES

GRAPHIC LEGEND

1/2 HOUR FIRE
1/2 HOUR FIRE/SMOKE BARRIER
3/4 HOUR FIRE
3/4 HOUR FIRE/ SMOKE BARRIER
1 HOUR FIRE
1 HOUR FIRE/ SMOKE BARRIER
2 HOUR FIRE
2 HOUR FIRE/ SMOKE BARRIER
3 HOUR FIRE
3 HOUR FIRE/ SMOKE BARRIER
4 HOUR FIRE
4 HOUR FIRE/ SMOKE BARRIER
SMOKE BARRIER
SMOKE PARTITION

F — FIRE ALARM PULL
XX — PATH OF TRAVEL (FOR CUMULATIVE DISTANCES REFER TO SCHEDULE)
EXIT LIGHTING
XXX — FIRE EXTINGUISHER CABINET / FIRE EXTINGUISHERS / FIRE HOSE CABINETS
HEAT DETECTOR
SMOKE DETECTOR
DIRECTION OF EGRESS
P: XX" / R: XX" — WIDTH PROVIDED / WIDTH REQUIRED

KEY PLAN



State of Wyoming
Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LOWER LEVEL 2 - SOUTH

SCALE As indicated

3GL10L

Schematic Design

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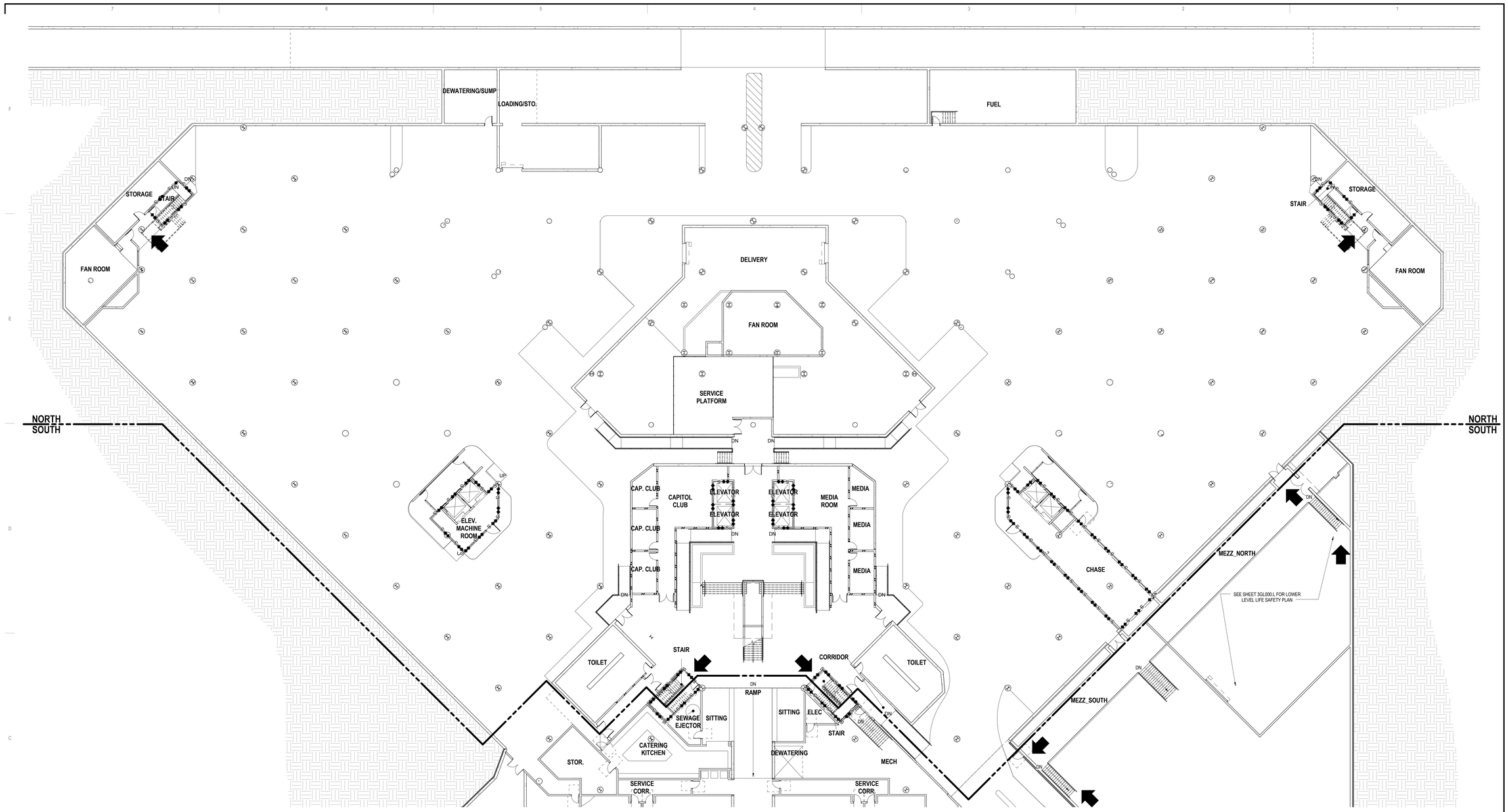


CODE REVIEW per the 2012 Building Code

Jurisdiction:	City of Cheyenne
Building Location	122 West 25th Street, Cheyenne, Wyoming 82002
Description	4 story office building over a 1 story, below grade parking structure, including an underground central utility plant and an underground connetctor that includes programatic space.
Codes	2012 International Existing Building Code 2012 International Building Code 2012 International Fire Code 2012 International Plumbing Code 2012 International Mechanical Code 2012 International Electrical Code 2009 ICC A117.1

Occupancy Classification

A-3 Occupancy
B Occupancy
S-2 Occupancy
Incidental Use 1,**
* limited to 10% of story
** Central Utility Plant (CUP) is incidental in accordance with IBC 509

Building Construction

Type I-B Sprinklered, non-separated mixed use

Fire Resistance Rating Reqmts.
Table 601

Type I-B Sprinklered
Construction Rating in Hours

Structural Frame	2 (a)
Bearing Walls - Exterior	2
Bearing Walls - Interior	2 (a)
Non Bearing Walls - Exterior	0*
Non Bearing Walls - Interior	0
Floor Construction	2
Roof Construction	1 (b,c)

* 0 Hr. Exterior wall based on FSD (fire separation distance) >30'

Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3
Section 713		
Shaft, Exit enclosures,	2	1.5
Additional Rated Assemblies		
Electrical Rooms (NEC)	1	45min
Generator Room	2	1.5
Elevator Machine Room	2	1.5

Fire Partitions

	Assembly Rating Min.	Fire Door Rating
Other Partitions	1	45 min

1005.1 Egress Width req'd for Egress Components

Stair = Occ. @ .2" / Occ.
Door = Occ. @ .15"/Occ.

1014.3 Exit Access Common path of Travel

Occupancy A with Sprinkler	75' (a,b)
Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

Occupancy A with Sprinkler	250'
Occupancy B with Sprinkler	300'
Occupancy S-2 with Sprinkler	400'

1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
In Occupancy B & S-2 with sprinkler system this is increased to 50'.

1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
Occupancy 501 - 1000	3
Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

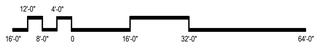
Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	B	C
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LOWER LEVEL 1 - NORTH
1/16" = 1'-0"



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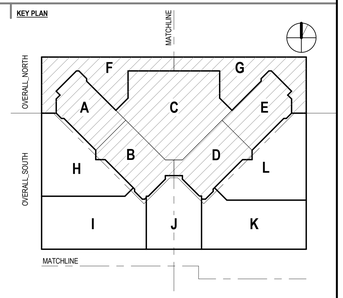

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/06/14 -
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3GL100

Schematic Design

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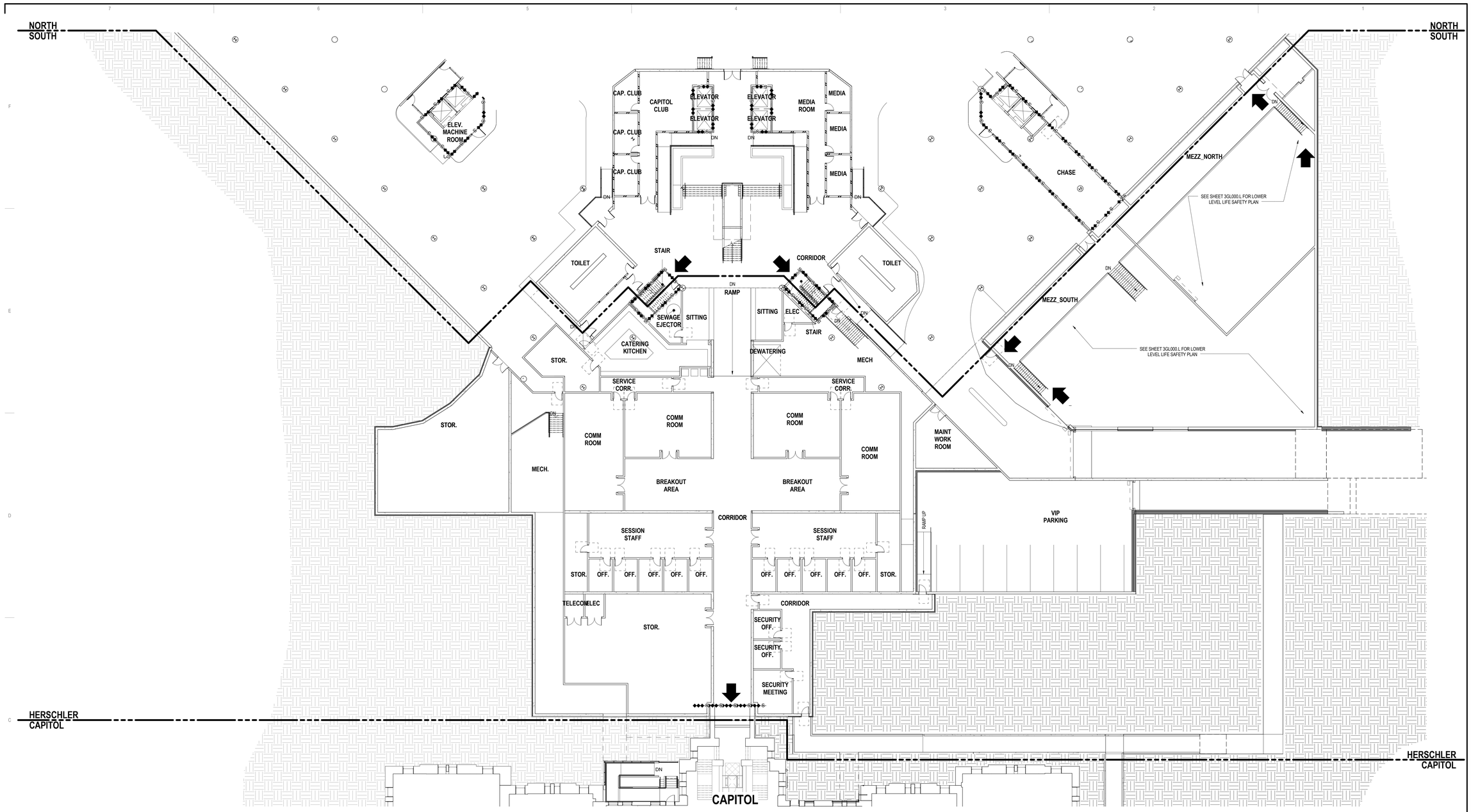

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1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
Occupancy 501 - 1000	3
Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	B	C
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LOWER LEVEL 1 - SOUTH
1/16" = 1'-0"

GENERAL NOTES

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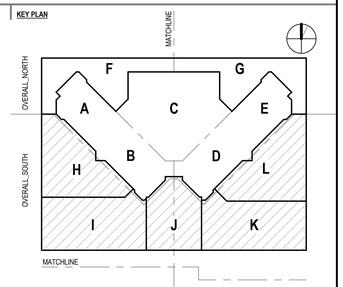
CONSTRUCTION NOTES

GRAPHIC LEGEND

- 1/2 HOUR FIRE
- 1/2 HOUR FIRE/SMOKE BARRIER
- 3/4 HOUR FIRE
- 3/4 HOUR FIRE/ SMOKE BARRIER
- 1 HOUR FIRE
- 1 HOUR FIRE/ SMOKE BARRIER
- 2 HOUR FIRE
- 2 HOUR FIRE/ SMOKE BARRIER
- 3 HOUR FIRE
- 3 HOUR FIRE/ SMOKE BARRIER
- 4 HOUR FIRE
- 4 HOUR FIRE/ SMOKE BARRIER
- SMOKE BARRIER
- SMOKE PARTITION
- FIRE ALARM PULL
- PATH OF TRAVEL (FOR CUMULATIVE DISTANCES REFER TO SCHEDULE)
- EXIT LIGHTING
- FIRE EXTINGUISHER CABINET / FIRE EXTINGUISHERS / FIRE HOSE CABINETS
- HEAT DETECTOR
- SMOKE DETECTOR
- DIRECTION OF EGRESS
- P: XX" / R: XX" — WIDTH PROVIDED / WIDTH REQUIRED

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3GL101

Schematic Design

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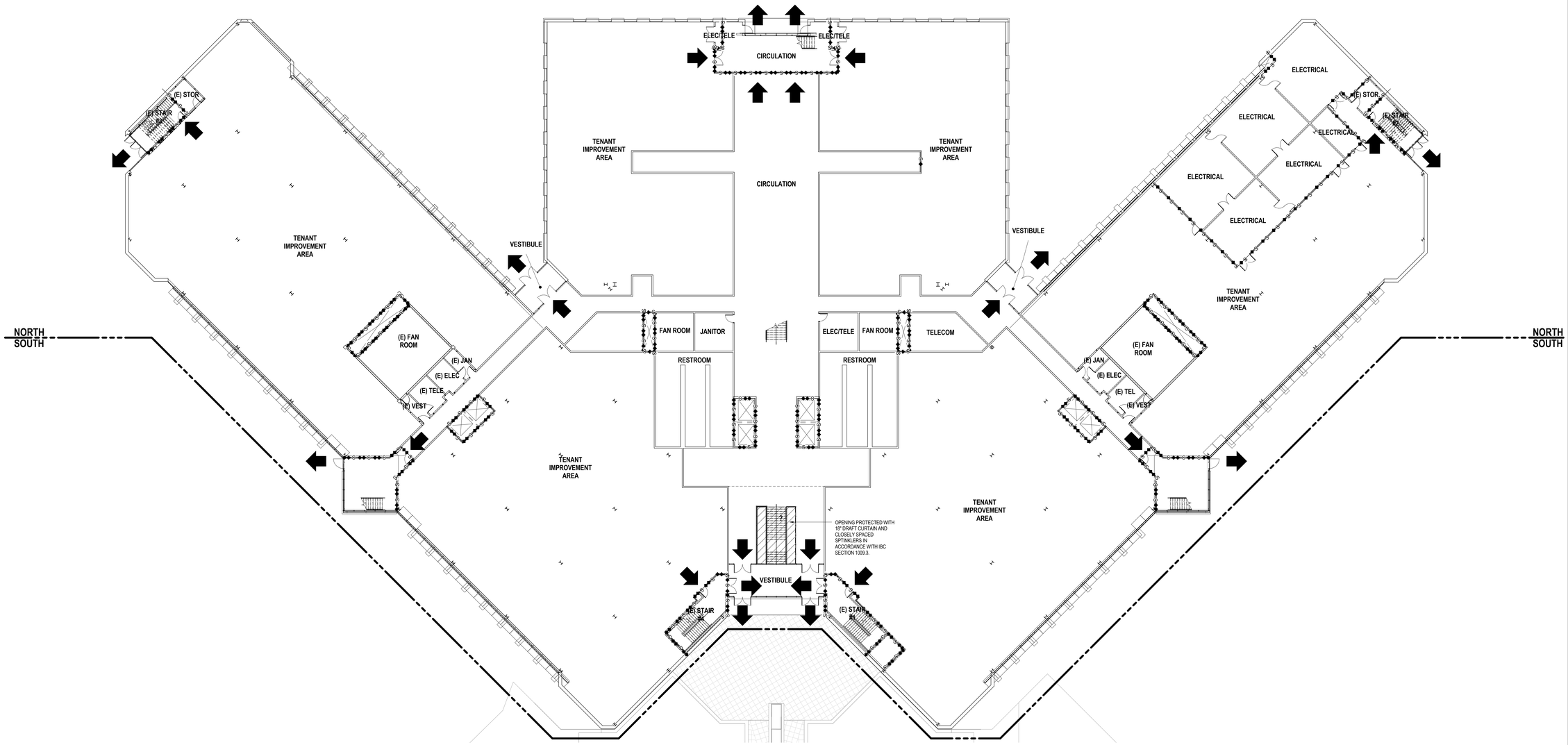

CODE REVIEW per the 2012 Building Code

Jurisdiction: City of Cheyenne
Building Location 122 West 25th Street, Cheyenne, Wyoming 82002
Description 4 story office building over a 1 story, below grade parking structure, including an underground central utility plant and an underground connetctor that includes programatic space.

Codes
2012 International Existing Building Code
2012 International Building Code
2012 International Fire Code
2012 International Plumbing Code
2012 International Mechanical Code
2012 International Electrical Code
2009 ICC A117.1

Occupancy Classification

A-3 Occupancy
B Occupancy
S-2 Occupancy
Incidental Use ?/**
* limited to 10% of story
** Central Utility Plant (CUP) is incidental in accordance with IBC 509

Building Construction

Type I-B Sprinklered, non-separated mixed use

Fire Resistance Rating Reqmts.
Table 601

	Type I-B Sprinklered Construction Rating in Hours
Structural Frame	2 (a)
Bearing Walls - Exterior	2
Bearing Walls - Interior	2 (a)
Non Bearing Walls - Exterior	0*
Non Bearing Walls - Interior	0
Floor Construction	2
Roof Construction	1 (b,c)

* 0 Hr. Exterior wall based on FSD (fire separation distance) >30'

Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3

Section 713

Shaft, Exit enclosures,	2	1.5

Additional Rated Assemblies

Electrical Rooms (NEC)	1	45min
Generator Room	2	1.5
Elevator Machine Room	2	1.5

Fire Partitions

	Assembly Rating Min.	Fire Door Rating
Other Partitions	1	45 min

1005.1 Egress Width req'd for Egress Components

Stair = Occ. @ .2" / Occ.
Door = Occ. @ .15"/Occ.

1014.3 Exit Access Common path of Travel

Occupancy A with Sprinkler	75' (a,b)
Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

Occupancy A with Sprinkler	250'
Occupancy B with Sprinkler	300'
Occupancy S-2 with Sprinkler	400'

1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
In Occupancy B & S-2 with sprinkler system this is increased to 50'.

1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
Occupancy 501 - 1000	3
Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	B	C
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LEVEL 1 - NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

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CONSTRUCTION NOTES

GRAPHIC LEGEND

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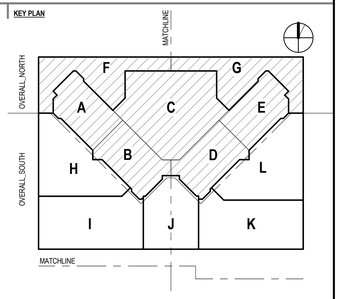
KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LEVEL 1 - NORTH

SCALE As indicated

3GL110

Schematic Design

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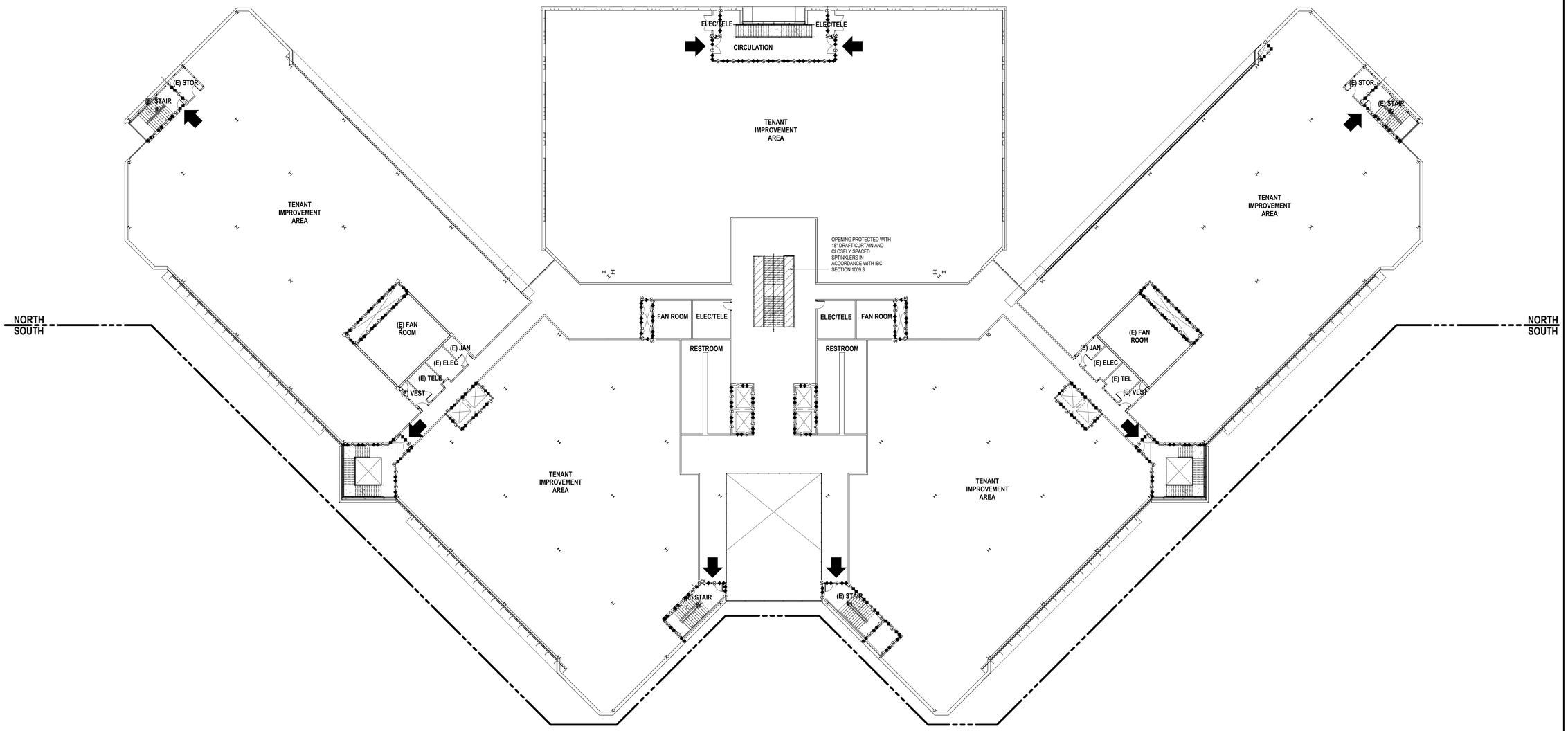


CODE REVIEW per the 2012 Building Code

Jurisdiction:	City of Cheyenne
Building Location	122 West 25th Street, Cheyenne, Wyoming 82002
Description	4 story office building over a 1 story, below grade parking structure, including an underground central utility plant and an underground connetctor that includes programatic space.
Codes	2012 International Existing Building Code 2012 International Building Code 2012 International Fire Code 2012 International Plumbing Code 2012 International Mechanical Code 2012 International Electrical Code 2009 ICC A117.1

Occupancy Classification

A-3 Occupancy
B Occupancy
S-2 Occupancy
Incidental Use *,**
* limited to 10% of story
** Central Utility Plant (CUP) is incidental in accordance with IBC 509

Building Construction

Type I-B Sprinklered, non-separated mixed use

Fire Resistance Rating Reqmts.
Table 601

Type I-B Sprinklered
Construction Rating in Hours

Structural Frame	2 (a)
Bearing Walls - Exterior	2
Bearing Walls - Interior	2 (a)
Non Bearing Walls - Exterior	0*
Non Bearing Walls - Interior	0
Floor Construction	2
Roof Construction	1 (b,c)

* 0 Hr. Exterior wall based on FSD (fire separation distance) >30'

Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3
Section 713		
Shaft, Exit enclosures,	2	1.5
Additional Rated Assemblies		
Electrical Rooms (NEC)	1	45min
Generator Room	2	1.5
Elevator Machine Room	2	1.5

Fire Partitions

	Assembly Rating Min.	Fire Door Rating
Other Partitions	1	45 min

1005.1 Egress Width req'd for Egress Components

Stair = Occ. @ .2" / Occ.
Door = Occ. @ .15"/Occ.

1014.3 Exit Access Common path of Travel

Occupancy A with Sprinkler	75' (a,b)
Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

Occupancy A with Sprinkler	250'
Occupancy B with Sprinkler	300'
Occupancy S-2 with Sprinkler	400'

1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
In Occupancy B & S-2 with sprinkler system this is increased to 50'.

1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:
Occupancy 0-500 2
Occupancy 501 - 1000 3
Occupancy 1001+ 4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

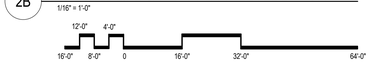
Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	**B**	**C**
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LEVEL 2 - NORTH
1/16" = 1'-0"



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R: XX"
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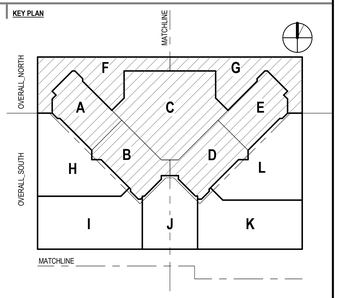
KEY PLAN



State of Wyoming
Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
4	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/06/14 -
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LEVEL 2 - NORTH

SCALE As indicated

3GL120

Schematic Design

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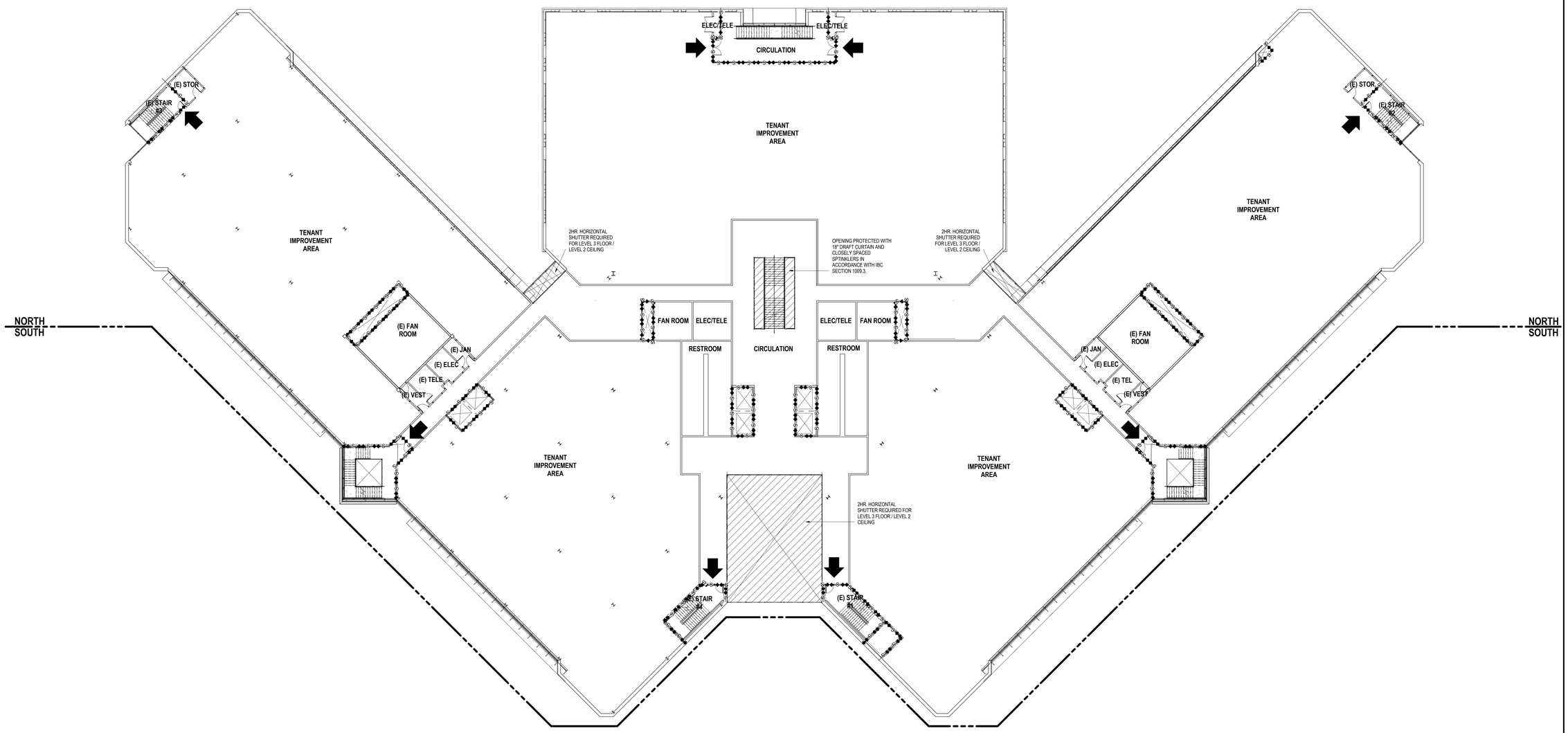

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Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3

Section 713

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Additional Rated Assemblies

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Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

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1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
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1018.1 Corridor Fire Resistance Rating

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Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
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Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

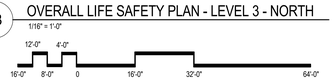
Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	B	C
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LEVEL 3 - NORTH
1/16" = 1'-0"



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GRAPHIC LEGEND

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4 HOUR FIRE
4 HOUR FIRE/ SMOKE BARRIER
SMOKE BARRIER
SMOKE PARTITION

F — FIRE ALARM PULL
XX — PATH OF TRAVEL (FOR CUMULATIVE DISTANCES REFER TO SCHEDULE)
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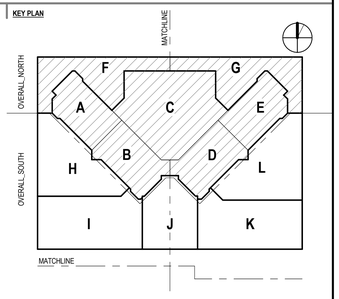
XXX — FIRE EXTINGUISHER CABINET, FIRE EXTINGUISHERS, FIRE HOSE CABINETS
HEAT DETECTOR
SMOKE DETECTOR
DIRECTION OF EGRESS
P: XX"
R: XX"
A101
WIDTH PROVIDED
WIDTH REQUIRED

KEY PLAN



State of Wyoming
Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LEVEL 3 - NORTH

SCALE As indicated

3GL130

Schematic Design

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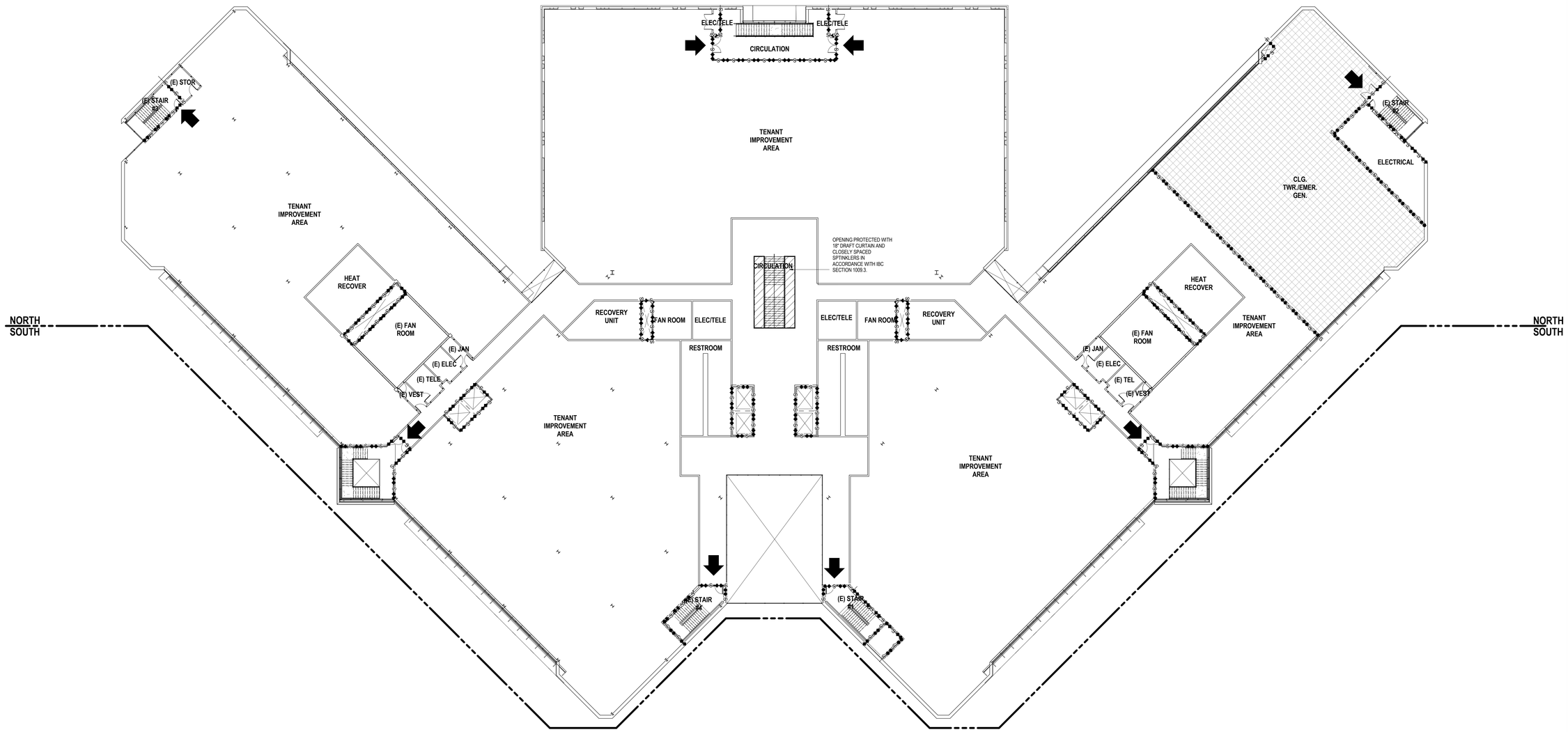


CODE REVIEW per the 2012 Building Code

Jurisdiction: City of Cheyenne
Building Location 122 West 25th Street, Cheyenne, Wyoming 82002
Description 4 story office building over a 1 story, below grade parking structure, including an underground central utility plant and an underground connetctor that includes programatic space.

Codes
2012 International Existing Building Code
2012 International Building Code
2012 International Fire Code
2012 International Plumbing Code
2012 International Mechanical Code
2012 International Electrical Code
2009 ICC A117.1

Occupancy Classification

A-3 Occupancy
B Occupancy
S-2 Occupancy
Incidental Use ?/**
* limited to 10% of story
** Central Utility Plant (CUP) is incidental in accordance with IBC 509

Building Construction

Type I-B Sprinklered, non-separated mixed use

Fire Resistance Rating Reqmts.
Table 601

	Type I-B Sprinklered Construction Rating in Hours
Structural Frame	2 (a)
Bearing Walls - Exterior	2
Bearing Walls - Interior	2 (a)
Non Bearing Walls - Exterior	0*
Non Bearing Walls - Interior	0
Floor Construction	2
Roof Construction	1 (b,c)

* 0 Hr. Exterior wall based on FSD (fire separation distance) >30'

Chapter 7 - Fire Ratings

	Assembly Rating Min.	Fire Door Rating
Occupancy Seperation (Capitol to Herschler underground connection)	3	3

Section 713

Shaft, Exit enclosures,	2	1.5

Additional Rated Assemblies

Electrical Rooms (NEC)	1	45min
Generator Room	2	1.5
Elevator Machine Room	2	1.5

Fire Partitions

	Assembly Rating Min.	Fire Door Rating
Other Partitions	1	45 min

1005.1 Egress Width req'd for Egress Components

Stair = Occ. @ .2" / Occ.
Door = Occ. @ .15"/Occ.

1014.3 Exit Access Common path of Travel

Occupancy A with Sprinkler	75' (a,b)
Occupancy B, S-2 with Sprinkler	100'(a)

1016.2 Exit Access Travel Distance

Occupancy A with Sprinkler	250'
Occupancy B with Sprinkler	300'
Occupancy S-2 with Sprinkler	400'

1018.4 Deadend

When more than one exist is req'd dead end shall not exceed 20'.
In Occupancy B & S-2 with sprinkler system this is increased to 50'.

1018.1 Corridor Fire Resistance Rating

Occupancy	Occupant Load	Req'd Rating with Sprinkler
A, B	Greater Than 30	0
S-2	Greater Than 30	0

Corridor: An enclosed exit access component that defines and provides a path of egress travel to an exit.

1021 Number of Exits and Exit configuration

Number of Exits from Story:

Occupancy 0-500	2
Occupancy 501 - 1000	3
Occupancy 1001+	4

Fire Alarm System

System to be in accordance with NFPA 72 and IBC 907

Sprinkler System

System to be in accordance with NFPA 13 to be provided

Standpipe System

Class I in accordance with IBC 905

Fire Extinguishers

To be provided in accordance with IBC 906

Chapter 8 - Interior Finishes

Wall / Ceiling:

	Exits	Corridors	Rooms
Occupancy A-3	B	B	C
Occupancy B	B	C	C
Occupancy S-2	C	C	C

Floor : Interior Floor Finishes Type II per IBC 804.

2B OVERALL LIFE SAFETY PLAN - LEVEL 4 - NORTH
1/16" = 1'-0"

GENERAL NOTES

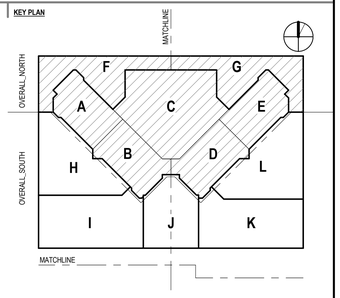
1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
4. REFER TO DEMOLITION DRAWINGS, IF ANY, FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
5. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
6. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
7. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL EQUIPMENT SPECIFIC INFORMATION.
8. REFER TO INTERIOR FINISH DRAWINGS FOR ADDITIONAL INTERIOR FINISH SPECIFIC INFORMATION.
9. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION.
10. REFER TO MEP DRAWINGS FOR ADDITIONAL MEP SPECIFIC INFORMATION.
11. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A" UNLESS NOTED OTHERWISE.
12. HIGHER RATED FIRE WALLS TAKE PRECEDENCE OVER LOWER RATED WALLS & ARE TO CONTINUE THROUGH ALL SUCH INTERSECTIONS.
13. ALL SMOKE BARRIER WALLS ARE TO EXTENDED FROM BACK SIDE OF EXTERIOR WALL SHEATHING TO BACK SIDE OF EXTERIOR WALL SHEATHING OR ANOTHER SMOKE BARRIER WALL.

CONSTRUCTION NOTES

GRAPHIC LEGEND

- 1/2 HOUR FIRE
- 1/2 HOUR FIRE/SMOKE BARRIER
- 3/4 HOUR FIRE
- 3/4 HOUR FIRE/ SMOKE BARRIER
- 1 HOUR FIRE
- 1 HOUR FIRE/ SMOKE BARRIER
- 2 HOUR FIRE
- 2 HOUR FIRE/ SMOKE BARRIER
- 3 HOUR FIRE
- 3 HOUR FIRE/ SMOKE BARRIER
- 4 HOUR FIRE
- 4 HOUR FIRE/ SMOKE BARRIER
- SMOKE BARRIER
- SMOKE PARTITION
- F — FIRE ALARM PULL
- XX — PATH OF TRAVEL (FOR CUMULATIVE DISTANCES REFER TO SCHEDULE)
- EXIT LIGHTING
- XXX — FIRE EXTINGUISHER CABINET / FIRE EXTINGUISHERS / FIRE HOSE CABINETS
- HEAT DETECTOR
- SMOKE DETECTOR
- DIRECTION OF EGRESS
- P: XX" / R: XX" — WIDTH PROVIDED / WIDTH REQUIRED

KEY PLAN



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PKG. IDENTIFIER 3

OVERALL LIFE SAFETY PLAN - LEVEL 4 - NORTH

SCALE As indicated

3GL140

Schematic Design

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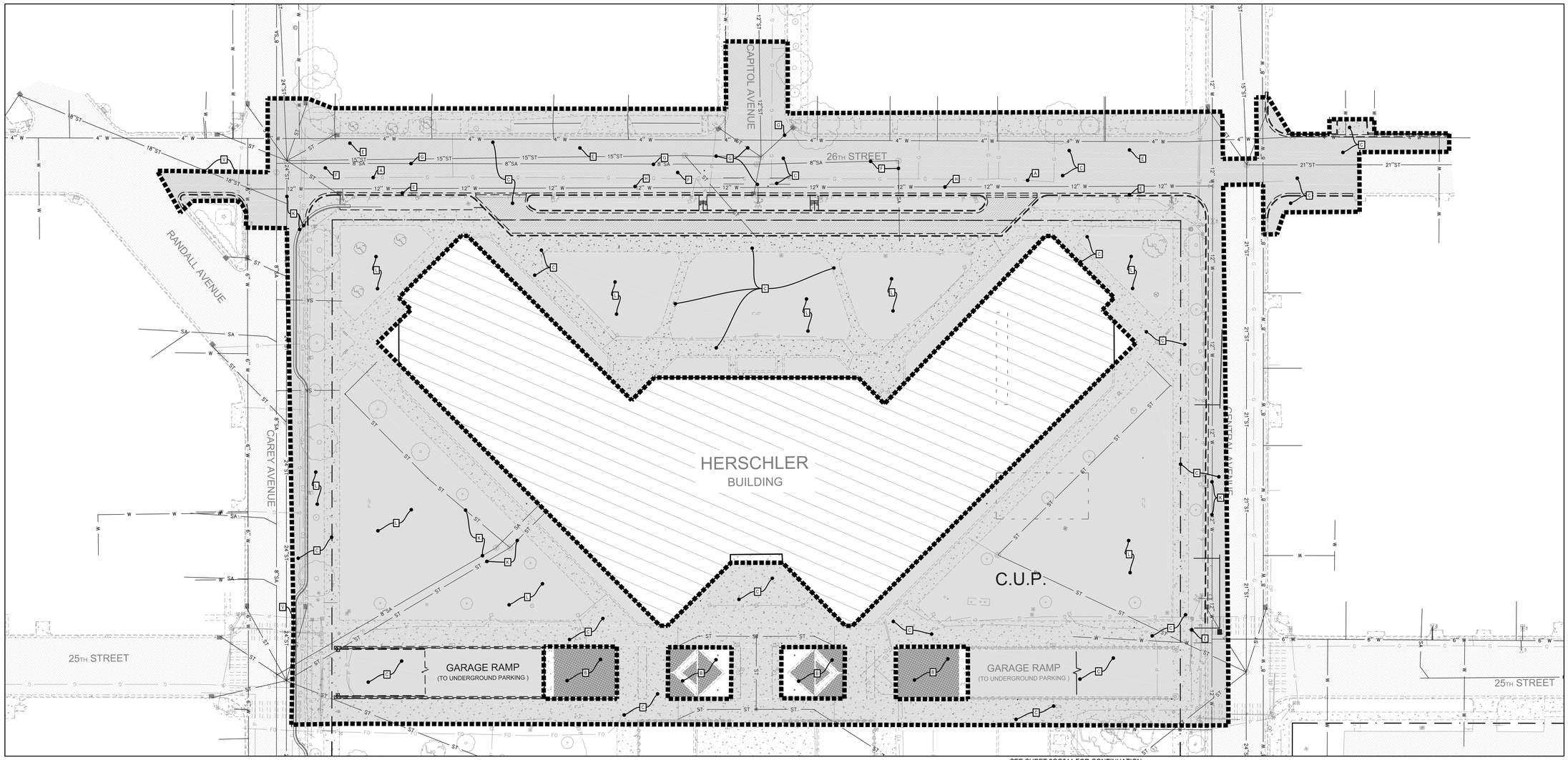
<RESERVED> GENERAL CIVIL DEMOLITION SPECIFICATIONS, SUPPLEMENTARY NOTES, AND DEMOLITION DETAILS



<SEE SHEET 3CG011 FOR CONTINUATION>

<SEE SHEET 3CG011 FOR CONTINUATION>

GENERAL NOTES

CONSTRUCTION NOTES

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- F EXISTING SANITARY SEWER MAIN TO BE REMOVED WITH RELOCATION.
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- U SAW CUT EX. CONCRETE AND ASPHALT AT DEMOLITION LIMITS (TYP).
- Z EXISTING TRAFFIC SIGNAL POLE TO BE REMOVED AND RESET ON NEW BASE

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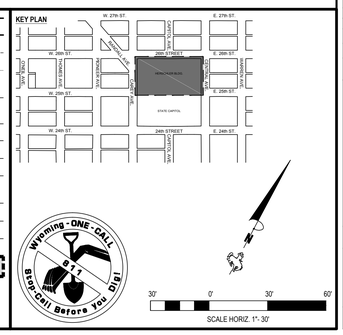
WATER MAIN (W)
POWER - OVERHEAD / BURIED
TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)
LIMITS OF REMOVAL FOR ALL PAVED SURFACING

KEY PLAN



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BenchMark ENGINEERS PC
1920 THOMES AVENUE
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307.634.9064

PRELIMINARY
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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 1416
ORIGINAL ISSUE 09/03/14 -
PKG. IDENTIFIER

OVERALL CIVIL SITE DEMOLITION - NORTH

SCALE 1" = 30'

3CG010

Schematic Design

SUPPLEMENTARY CIVIL DEMOLITION NOTES:

GENERAL SCOPE OF CIVIL DEMOLITION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO:

1. OBTAIN DEMOLITION PERMIT FROM THE CITY OF CHEYENNE.
2. OBTAIN RIGHT-OF-WAY AND TEMPORARY STREET CLOSURE PERMITS (AS REQUIRED) FROM CITY OF CHEYENNE (CAREY AVENUE AND 26TH STREET) AND WYOMING DEPARTMENT OF TRANSPORTATION (WYDOT) FOR CENTRAL AVENUE.
3. PREPARATION OF HEALTH AND SAFETY PLAN FOR DEMOLITION ACTIVITIES FOR WORKER AND SUB-CONTRACTORS.
4. TRAFFIC CONTROL PLANS FOR WORK WITHIN PUBLIC STREETS.
5. PREPARATION AND MAINTENANCE OF STORMWATER POLLUTION PREVENTION PLANS (SWPPP) MEETING STATE DEQ WYPDES PERMIT REQUIREMENTS FOR THE AREA OF DISTURBANCE. THE CITY OF CHEYENNE MAY REQUIRE SUBMITTAL OF PERMIT PRIOR TO ISSUING A STREET RIGHT-OF-WAY PERMIT. THE CONTRACT SHALL INCLUDE IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL AND STORMWATER POLLUTANT CONTROL MEASURES FOR THE DURATION OF THE PHASE 1 AND PHASE 2 WORK INCLUDING WINTER SHUTDOWN. TRANSFER OF A WYPDES PERMIT TO THE OWNER WILL BE COMPLETED BY THE CONTRACTOR WITH FINAL ACCEPTANCE.
6. DEMOLITION AND REMOVAL OF EXISTING CONCRETE AND ASPHALT SURFACING AND MISC. SURFACE FEATURES (I.E. CURBING, BOLLARDS, POLES, ABANDONED OR DISCONNECTED UTILITY APPURTENANCES, ETC. CLEARING AND GRUBBING OF LANDSCAPED AREAS DESIGNATED FOR REMOVAL (INCLUDING TREE/SHRUB REMOVAL).
7. REMOVAL/DISCONNECTION/ABANDONMENT OF UNDERGROUND SERVICE UTILITIES.
8. ERECT AND MAINTAIN BARRICADES, TEMPORARY SECURITY FENCING, AND OTHER SUFFICIENT SAFEGUARDS AROUND ALL DEMOLITION ACTIVITIES, EXCAVATIONS, EMBANKMENTS AND OBSTRUCTIONS; SHALL PROVIDE SUITABLE WARNING LIGHTS ON OR NEAR PEDESTRIAN AREAS AND KEEP THEM LIGHTED AT NIGHT OR OTHER TIMES WHEN VISIBILITY IS LIMITED; AND SHALL EMPLOY SUCH SAFETY PERSONNEL AS MAY BE NECESSARY FOR THE PROTECTION OF THE PUBLIC. SECURITY FENCING SHALL BE REQUIRED TO BE INSTALLED FOR DURATION OF WORK OR UNTIL A PHASED PORTION OF WORK IS ACCEPTED BY THE OWNER. THE FENCING SHALL BE INSTALLED WITH EMBEDDED POLES RESISTANT TO WIND AND THEN REMOVED WITH APPROVAL BY THE ENGINEER OR OWNER AT FINAL ACCEPTANCE. ALL MAINTENANCE FOR THE FENCING SHALL BE REQUIRED INCLUDED IN THE CONTRACT.
9. ERECT VEHICULAR BARRIERS (NON-CONSTRUCTION RELATED) FOR LONG DURATION PARTIAL STREET CLOSURES (CENTRAL AND CAREY AVENUES).
10. COMPLETED CLOSEOUT DOCUMENTATION OF ACTIVITIES REQUIRED UNDER THIS CONTRACT.

A TRAFFIC CONTROL PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE CITY AND ENGINEER AT THE SCHEDULED PRE-CONSTRUCTION MEETING.

DISCONNECTIONS TO EXISTING DRY SERVICE LINE FACILITIES SHALL BE COORDINATED WITH THE SPECIFIC SERVICE PROVIDER(S). NOTE THAT REROUTING OF EXISTING ELECTRICAL SERVICES ARE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL MEET WITH CHEYENNE LIGHT FUEL AND POWER (CLF&P) TO COORDINATE REQUIRED UTILITY SHUTOFFS. NEW ROUTING PLANS FOR CLF&P FACILITIES ARE NOT DEPICTED ON THESE PLANS.

THE CONTRACTOR SHALL PROVIDE SUPERINTENDENT ON-SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR, BUT NOT LIMITED TO THE FOLLOWING TASKS:

1. MUST BE KNOWLEDGEABLE AND FAMILIAR WITH PLANS, SPECS, ADDENDUMS, AND SHOP DRAWINGS.
2. MANAGE THE CONSTRUCTION ACTIVITIES OF ALL SUB-CONTRACTORS ON-SITE.
3. REVIEW AND APPROVE SHOP DRAWINGS OF SUB-CONTRACTORS.
4. REVIEW STAKEOUT DATA, SURVEY STAKES AND VERIFY AGAINST THE DESIGN PLANS PRIOR TO ASSOCIATED CONSTRUCTION ACTIVITIES.
5. PROVIDE AN ACCURATE WEEKLY CONSTRUCTION SCHEDULE.
6. AVAILABLE DURING NON-WORKING HOURS FOR EMERGENCIES AND OR STORMWATER MANAGEMENT EROSION CONTROL TIMES.

THE CONTRACTOR SHALL PROVIDE, AT THE COMPLETION OF THE PROJECT OR EACH PHASE OF THE PROJECT, A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS TO THE OWNER PRIOR TO FINAL PAYMENT. THE AS-BUILT DRAWING WILL CONSIST OF A MARKED-UP SET OF "ISSUED FOR CONSTRUCTION" DRAWING, MARKED IN RED PEN OR ACCEPTABLE DIGITAL NOTATION, VERIFYING THE FOLLOWING:

1. LOCATIONS OF ALL FOUND UTILITIES THAT REMAIN IN SERVICE OR ARE ABANDONED IN PLACE AT THE JOB-SITE THAT DEVIATE FROM THE CONTRACT DESIGN PLANS.
2. SURVEYED ELEVATIONS AT THE MAXIMUM DEPTHS AND EXTENTS OF EXCAVATIONS FOR BUILDING FOUNDATIONS, UTILITY VAULTS LARGER THAN 4'x4'x4', GREASE TRAPS, MANHOLES, ETC. AT THE JOBSITE. COMPACTION AND MOISTURE DENSITY TESTING REPORTS SHALL BE REQUIRED FOR EACH FEATURE BASED ON REQUIREMENTS OF SECTION 02225 TYPE 'A' TRENCH BACKFILL REQUIREMENTS.
3. ANY OTHER VARIATIONS FROM THE CONSTRUCTION DOCUMENTS MUST BE CLEARLY NOTED AND DETAILED ON THE PLANS.

THE FINAL AS-BUILT DRAWING CERTIFICATE SHALL BE SIGNED ON EACH SHEET BY THE CONTRACTOR OR SUBCONTRACTOR RESPONSIBLE FOR THE WORK.

CONTRACTOR AS-BUILT DRAWINGS WILL BE DUE PRIOR TO SUBMITTING THE FINAL PAY REQUEST. NON-CONFORMING AS-BUILT DRAWINGS WILL BE RETURNED TO THE CONTRACTOR FOR REVISIONS AND RESUBMITTAL. FINAL PAYMENT WILL NOT BE ISSUED UNTIL THE OWNER HAS REVIEWED AND APPROVED THE AS-BUILT DRAWINGS.

<RESERVED FOR DEMOLITION DETAILS AND SECTIONS

GENERAL NOTES

CONSTRUCTION NOTES

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GRAPHIC LEGEND

SET 7/8" X 24" LONG REBAR WITH 1½" ALUMINUM CAP STAMPED "SSS P.L.S. 5910"
FOUND 2" ALUMINUM CAP STAMPED "PLS 2927"
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CONTOURS - MINOR / MAJOR (6100)
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STORM SEWER MAIN (ST)
WATER MAIN (W)
POWER - OVERHEAD / BURIED
TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)

KEY PLAN

Wyoming - ONE - CALL
Stop Call Before You Dig!

30' 0' 30' 60'
SCALE HORIZ. 1"= 30'

State of Wyoming

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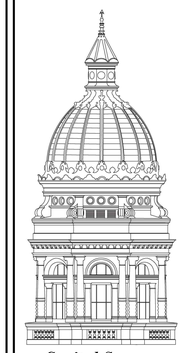

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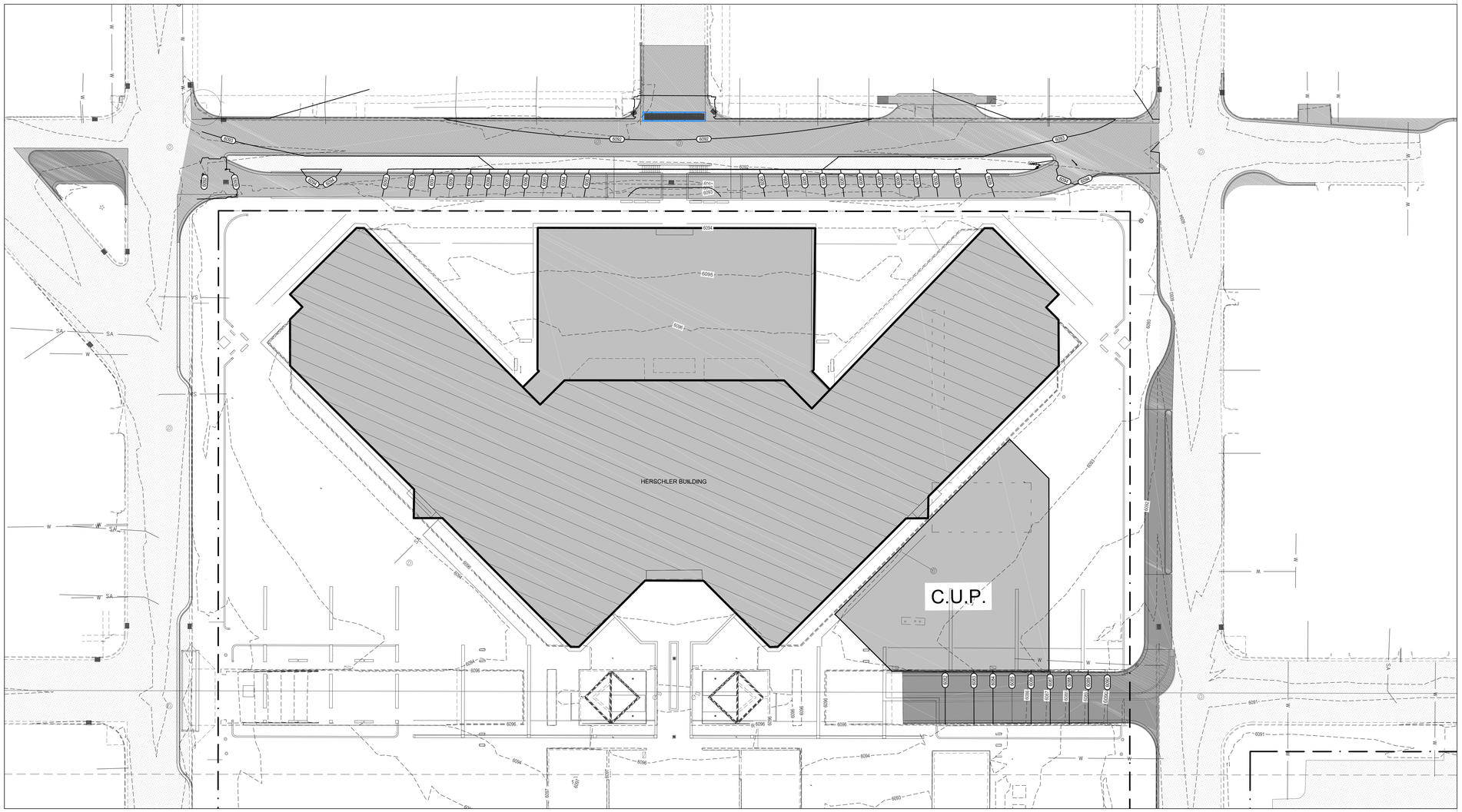
OVERALL CIVIL SITE DEMOLITION - SOUTH

SCALE 1" = 30'

3CG011

Schematic Design



GENERAL NOTES

CONSTRUCTION NOTES

- A MATCH EXISTING (TYP.)
- B 1% MIN. 2% MAX. CROSS-SLOPE
- C STRAIGHT GRADE BETWEEN POINTS
- D <RESERVED>
- E <RESERVED>
- F <RESERVED>
- G <RESERVED>
- H <RESERVED>
- J <RESERVED>
- K <RESERVED>
- L RE: LANDSCAPE PLANS FOR FINE GRADING
- T <RESERVED>
- V <RESERVED>
- Z <RESERVED>

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SET ⅝" X 24" LONG REBAR WITH 1½" ALUMINUM CAP STAMPED "SSS P.L.S. 5910"
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KEY PLAN

Wyoming - ONE - CALL
Stop Call Before You Dig!

N

30' 0' 30' 60'
SCALE HORIZ. 1"= 30'

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PROJECT NUMBER: **1416**

ORIGINAL ISSUE: **09/03/14 -**

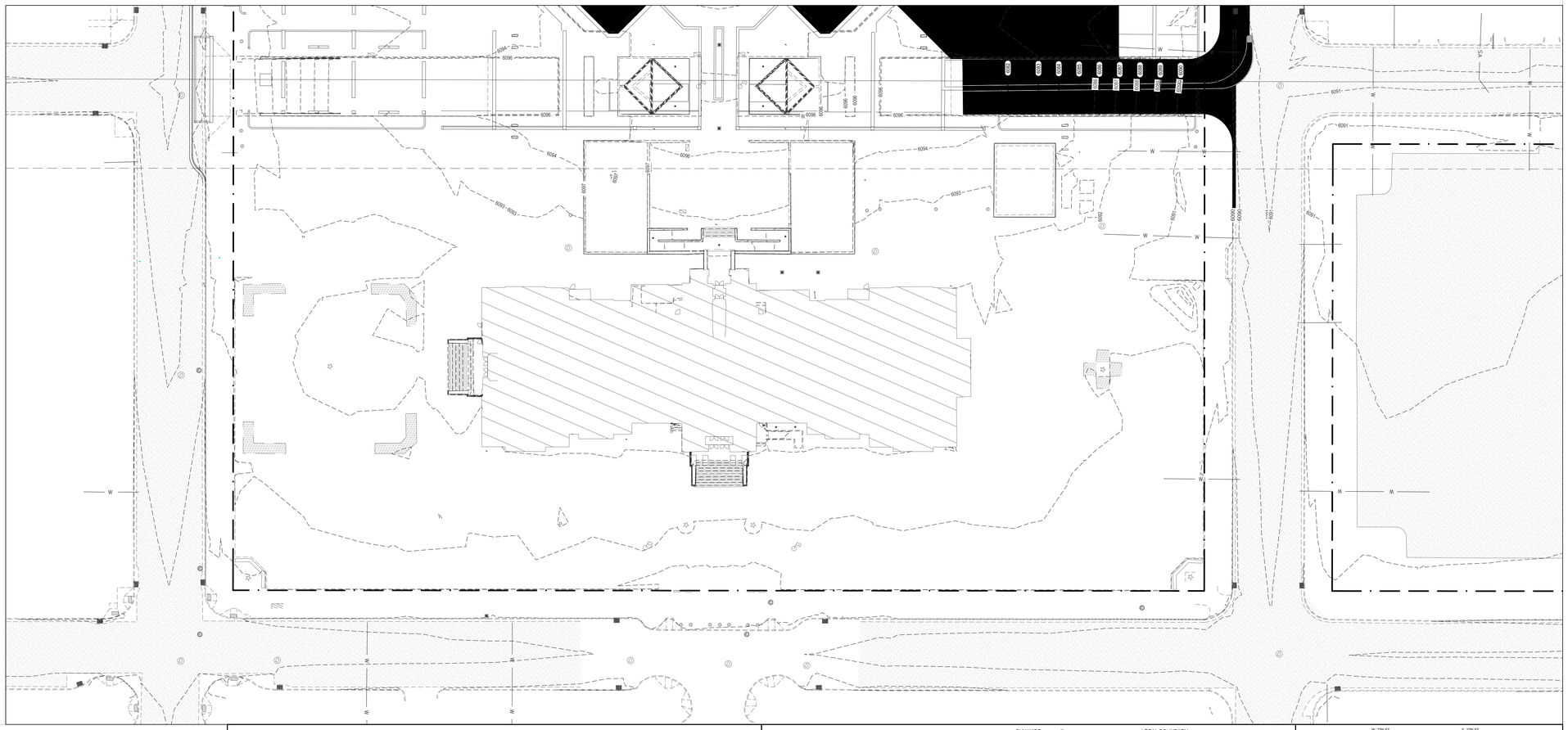
PKG. IDENTIFIER:

OVERALL CIVIL SITE GRADING PLAN - NORTH

SCALE 1" = 30'

3CG012

Schematic Design



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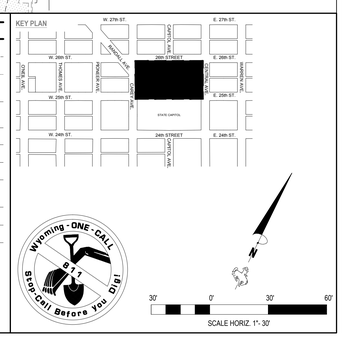
TREE CONIFEROUS
MANHOLE (SANITARY SEWER)
MANHOLE (STORM SEWER)
MANHOLE (ELECTRICAL)
INLET BOX (STORM SEWER)
FIRE HYDRANT
WATER VALVE
WATER METER
IRRIGATION BOX
POWER POLE
GUY WIRE
CLEANOUT
LIGHTPOLE
TELEPHONE BOX / PEDISTAL
POWER BOX / PEDISTAL
VAULT
BIKE RACK
SEATING BENCH
STATUE
SIGN W/POST
FLAG POLE
BOLLARD
DRAINAGE ARROW
CONCRETE PAVEMENT
ASPHALT PAVEMENT
GRAVEL AREA
LEGAL BOUNDARY
PROPERTY LINE
EASEMENT LINE
CONTOURS - MINOR / MAJOR (6100)
FENCE - BARB / WOOD / CHAIN LINK
SANITARY SEWER MAIN (SA)
STORM SEWER MAIN (ST)
WATER MAIN (W)
POWER - OVERHEAD / BURIED
TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

BenchMark ENGINEERS PC
1920 THOMES AVENUE
SUITE 620
CHEYENNE, WY 82009
307.634.9064

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER: **1416**

ORIGINAL ISSUE: **09/03/14 -**

PKG. IDENTIFIER:

OVERALL CIVIL SITE GRADING PLAN - SOUTH

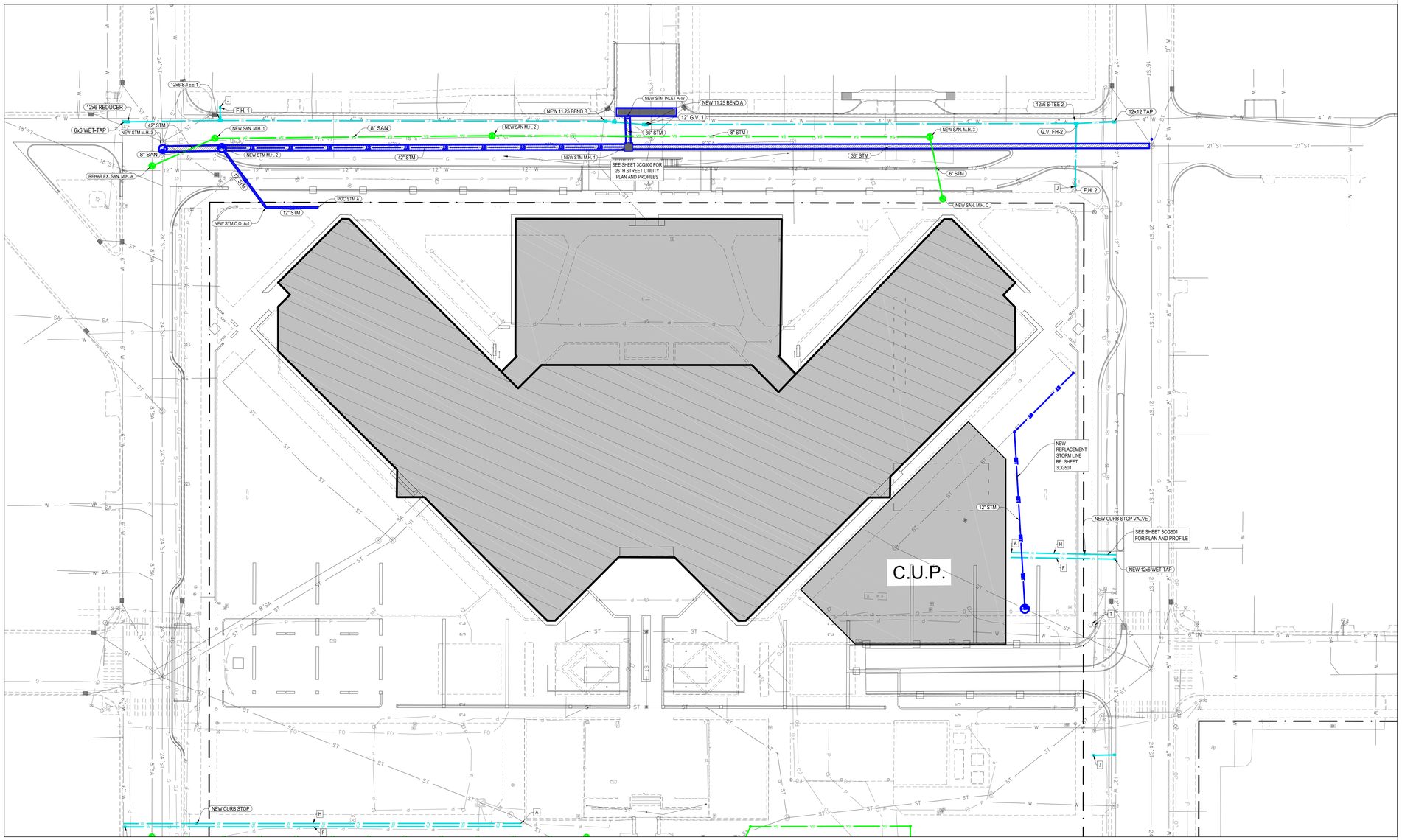
SCALE 1" = 30'

3CG013

Schematic Design

UTILITY CONTACT INFORMATION

GAS AND ELECTRIC	CHEYENNE LIGHT FUEL AND POWER 1301 WEST 24TH STREET CHEYENNE, WY 82001 P: 307.638.3361
TELEPHONE	CENTURY LINK COMMUNICATIONS 4719 RIDGE ROAD CHEYENNE, WY 82009 P: 307.432.0326
CABLE	CHARTER COMMUNICATIONS 1415 E. 13TH STREET CHEYENNE, WY 82009 KURT QUINLIVAN | CONSTRUCTION COORDINATOR OP, WYOMING FIELD OPS | MOUNTAIN STATES KMA C: 307.631.0581 | F: 307.514.0613
POTABLE WATER & SAN. SEWER	CHEYENNE BOARD OF PUBLIC UTILITIES 2416 SNYDER AVENUE CHEYENNE, WY 82001 LINDA GUNTER | B.O.P.U. DEVELOPMENT SPECIALIST P: 307.637.6497
RIGHT-OF-WAY (CENTRAL AVENUE)	WYOMING DEPARTMENT OF TRANSPORTATION (WYDOT) TIM McGARY DISTRICT MAINTENANCE ENGINEER WYDOT DISTRICT 1 HEADQUARTERS 3411 SOUTH THIRD STREET LARAMIE, WYOMING 82070 P: 307.745.2100



GENERAL NOTES

CONSTRUCTION NOTES

- A POC - SEE PLUMBING PLAN FOR CONT.
- B POC - MECHANICAL PLANS FOR CONT.
- C SERVICE CONNECTION TO PUBLIC UTILITY - BOPU
- D SERVICE CONNECTION TO PUBLIC UTILITY - STORM SEWER
- E SEE ELECTRICAL PLANS FOR DESCRIPTION
- F NEW FIRE SPRINKLER LINE
- G NEW GAS MAIN/SERVICE LINE COORDINATE WITH CLF&P
- H NEW DOMESTIC WATER SERVICE LINE
- J NEW FIRE HYDRANT
- K POC IRRIGATION
- L <RESERVED>
- T RELOCATED EXISTING STREET LIGHT AND ADD NEW POLE BASE
- V <RESERVED>
- Z <RESERVED>

GRAPHIC LEGEND

SET 5/8" X 24" LONG REBAR WITH 1½" ALUMINUM CAP STAMPED "SSS P.L.S. 5910"
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TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)

KEY PLAN

Wyoming - ONE - CALL
1-800-849-7571
Stop Call Before You Dig!

30' 0' 30' 60'
SCALE HORIZ. 1"- 30'

State of Wyoming

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PKG. IDENTIFIER

OVERALL CIVIL SITE UTILITY PLAN

SCALE 1" = 30'

3CG014

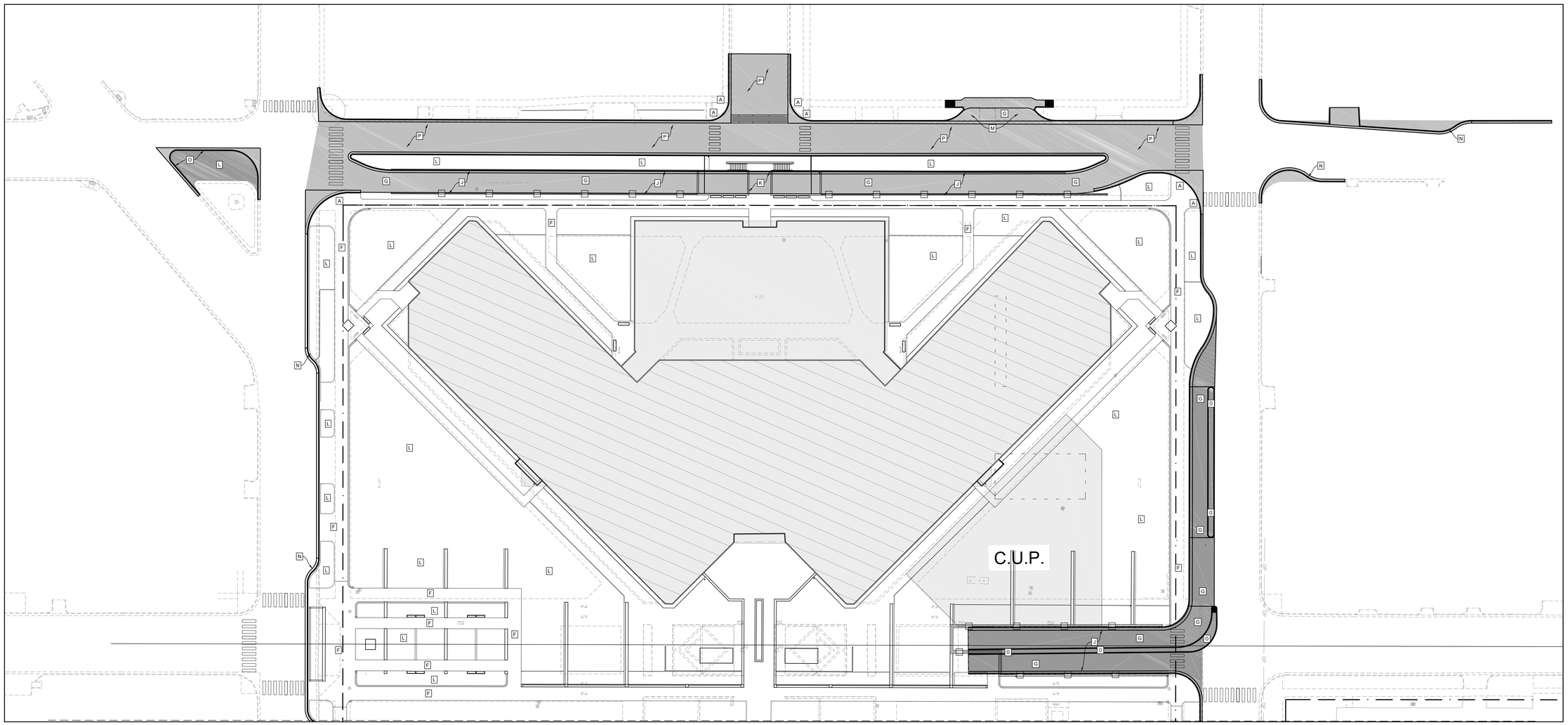
Schematic Design

SURFACING SECTIONS

ASPHALT PAVING SECTION
- 4" HOT PLANT MIX BIT PAVEMENT (STREET PATCH) (SEE PAVING NOTES THIS SHEET & GENERAL CIVIL SPECIFICATIONS)
- 8" CRUSHED BASE GRADING "W" (STREET PATCH) (SEE PAVING NOTES THIS SHEET & GENERAL CIVIL SPECIFICATIONS)
- SUBGRADE: SCARIFY, MOISTURE CONDITION, AND RECOMPACT (5" MIN.) TO 95% DRY UNIT WEIGHT (ASTM D-698)

CONCRETE SIDEWALK SECTION
- 4" CONCRETE TYPICAL SECTION (SEE PAVING NOTES THIS SHEET AND SPECIFICATIONS)
- 4" CRUSHED BASE GRADING "W" (SEE PAVING NOTES THIS SHEET AND SPECIFICATIONS)
- SUBGRADE: SCARIFY, MOISTURE CONDITION, AND RECOMPACT (5" MIN.) TO 95% DRY UNIT WEIGHT (ASTM D-698)

CONCRETE PAVING SECTION
- 8" CONCRETE PAVEMENT (SEE PAVING NOTES THIS SHEET AND SPECIFICATIONS)
- 6" CRUSHED BASE GRADING "W" (SEE PAVING NOTES THIS SHEET AND SPECIFICATIONS)
- SUBGRADE: SCARIFY, MOISTURE CONDITION, AND RECOMPACT (8" MIN.) TO 95% DRY UNIT WEIGHT (ASTM D-698)



GENERAL NOTES

CONSTRUCTION NOTES

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- C NEW CITY OF CHEYENNE ADA RAMP TYPE C
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- G NEW CONCRETE PAVEMENT
- H RE: ARCHITECTURAL PLANS FOR DETAILS
- J NEW SITE RETAINING WALLS RE: STRUCTURAL PLANS FOR SECTIONS
- K NEW ELEVATED PLAZA RE: LANDSCAPE
- L RE: LANDSCAPE PLAN
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- N NEW CURB END ISLAND
- O NEW RAISED MEDIAN ISLAND
- P NEW ASPHALT PAVEMENT

GRAPHIC LEGEND

SET 3/4" X 24" LONG REBAR WITH 1½" ALUMINUM CAP STAMPED "SSS P.L.S. 5910"
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FOUND 5/8" REBAR
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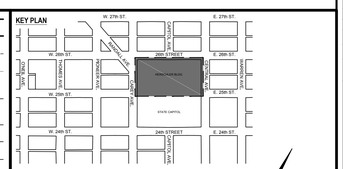
WATER MAIN (W)
POWER - OVERHEAD / BURIED
TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)

KEY PLAN



Wyoming · ONE · CALL
811
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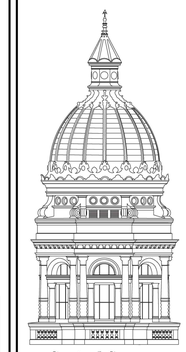
SCALE HORIZ. 1"= 30'

State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

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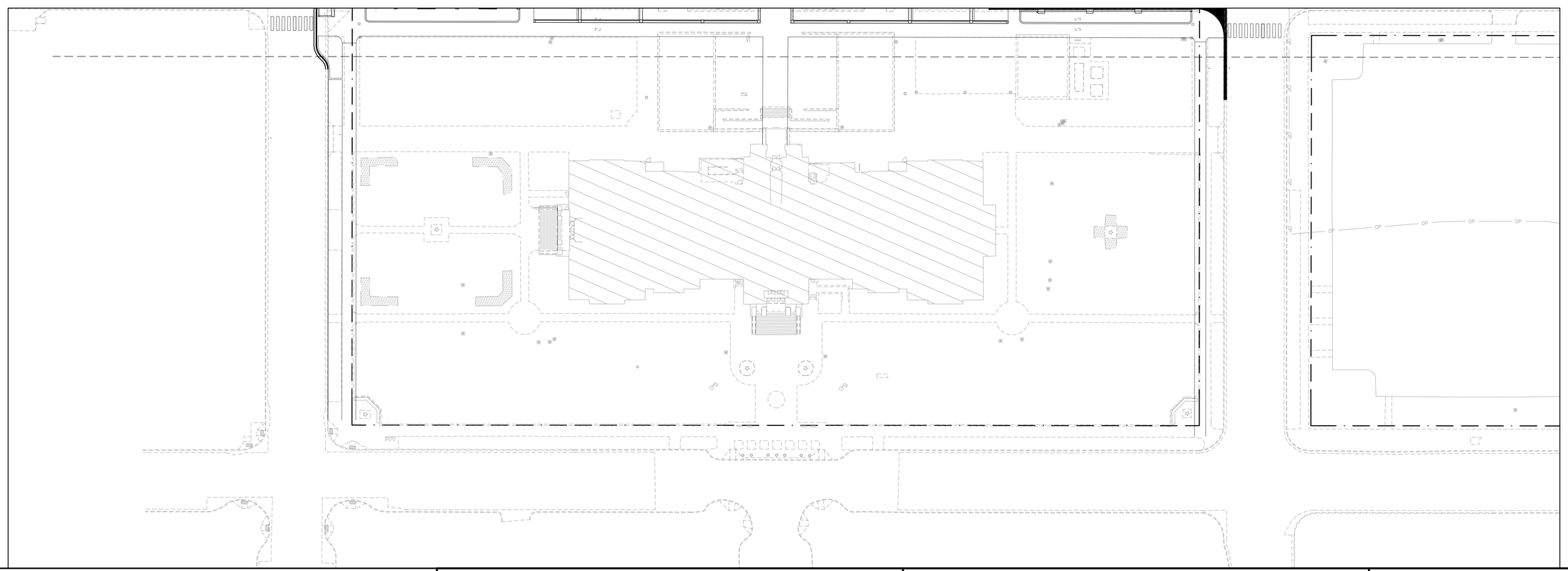
PKG. IDENTIFIER

CIVIL SITE PAVING PLAN - NORTH

SCALE 1" = 30'

3CG015

Schematic Design



GENERAL NOTES

CONSTRUCTION NOTES

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CONTOURS - MINOR / MAJOR (6100 / 6100)
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WATER MAIN (W)
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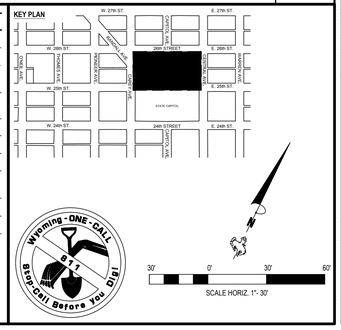
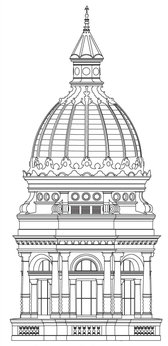
KEY PLAN



State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

HDR PDP PLANI ARCHITECTS

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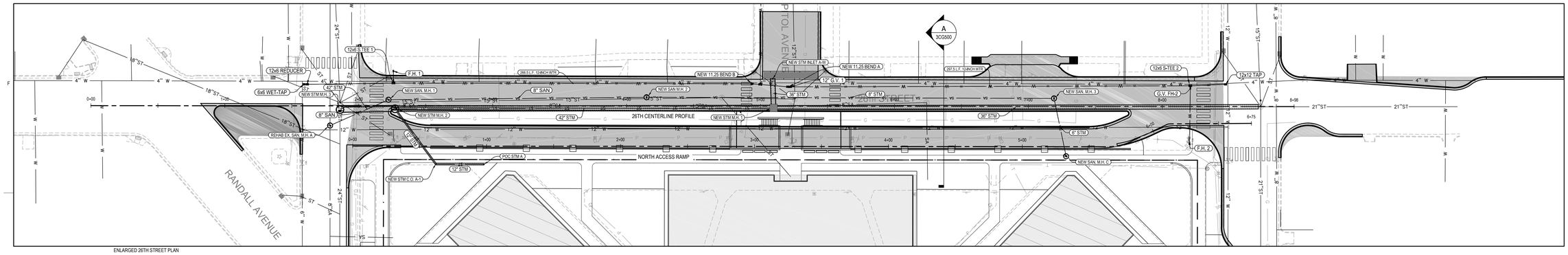
CIVIL SITE PAVING PLAN - SOUTH

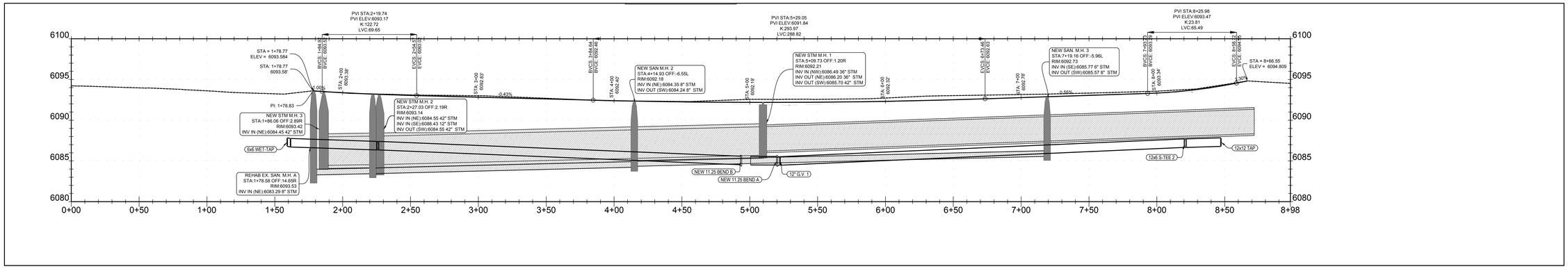
SCALE 1" = 30'

3CG016

Schematic Design

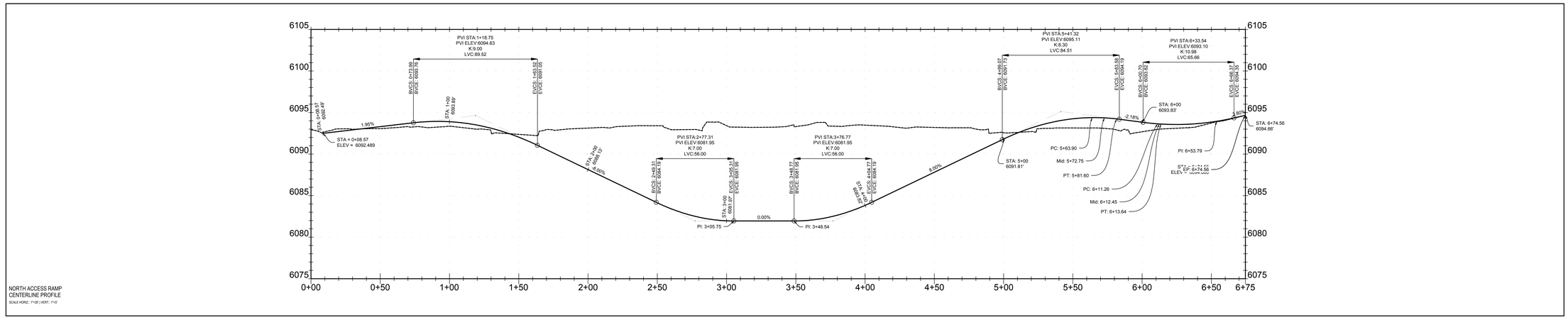


ENLARGED 26TH STREET PLAN



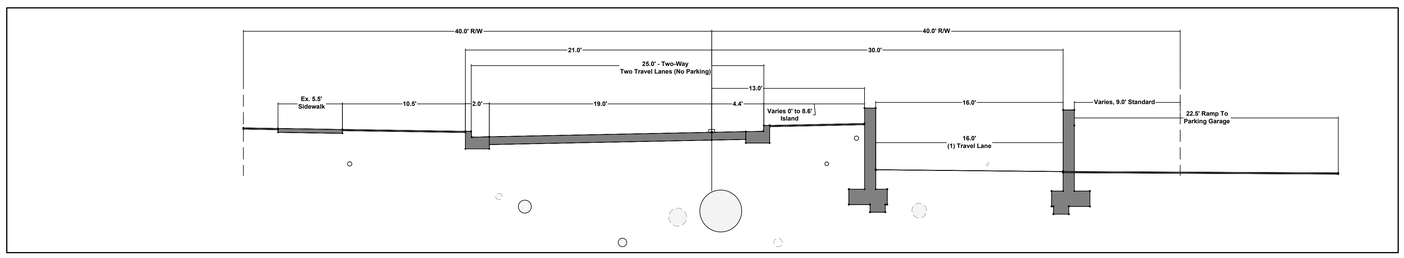
26TH CENTERLINE PROFILE

SCALE HORIZ: 1"=30' | VERT.: 1"=5'



NORTH ACCESS RAMP
CENTERLINE PROFILE

SCALE HORIZ.: 1"=30' | VERT.: 1"=5'



TYPICAL SECTION A

GENERAL NOTES

CONSTRUCTION NOTES

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- B NEW CITY OF CHEYENNE ADA RAMP TYPE B
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GRAPHIC LEGEND

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KEY PLAN

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30' 0' 30' 60'
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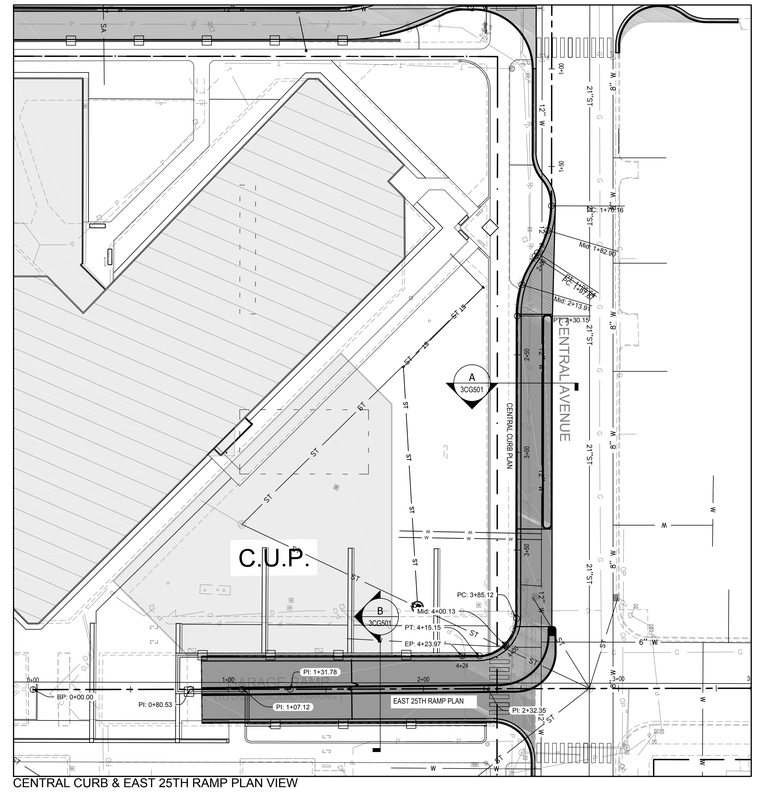
CIVIL 26TH STREET CONSTRUCTION PLAN & PROFILES

SCALE VARIES

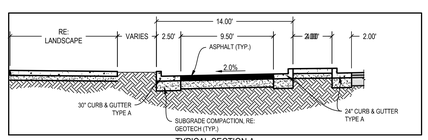
3CG500

Schematic Design

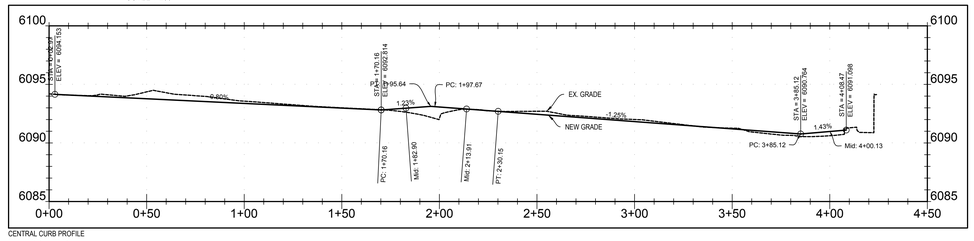


CENTRAL CURB & EAST 25TH RAMP PLAN VIEW

SCALE 1"=30'

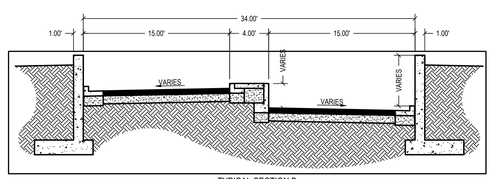


TYPICAL SECTION A

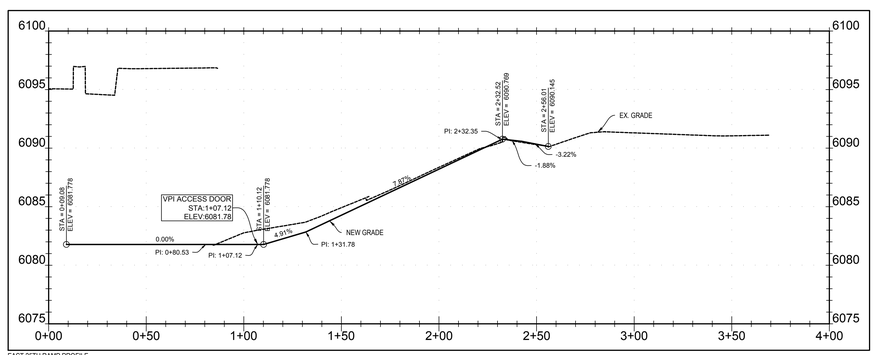


CENTRAL CURB PROFILE

SCALE HORIZ. 1"=30' | VERT. 1"=5'



TYPICAL SECTION B



EAST 25TH RAMP PROFILE

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GENERAL NOTES

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KEY PLAN

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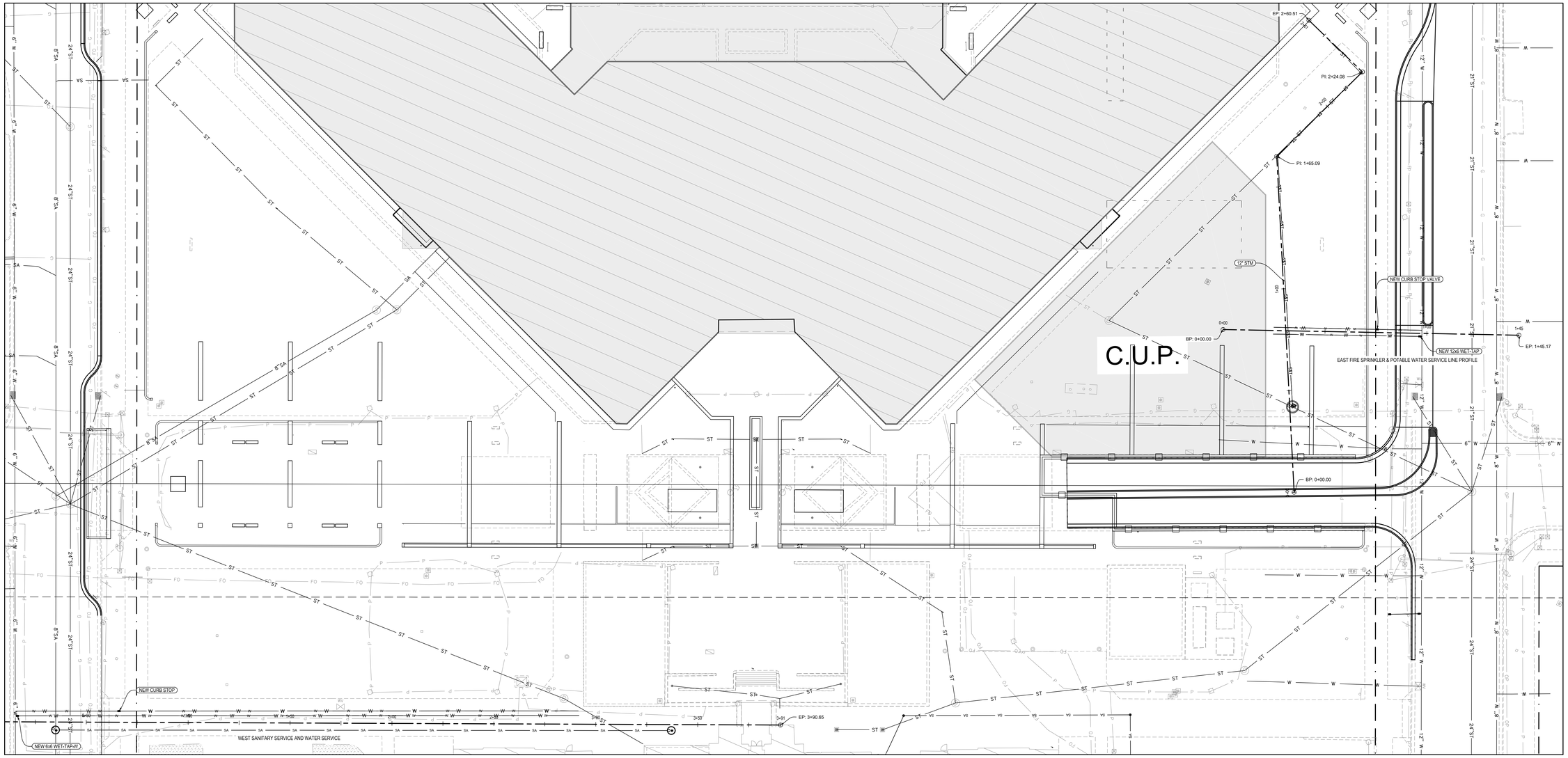
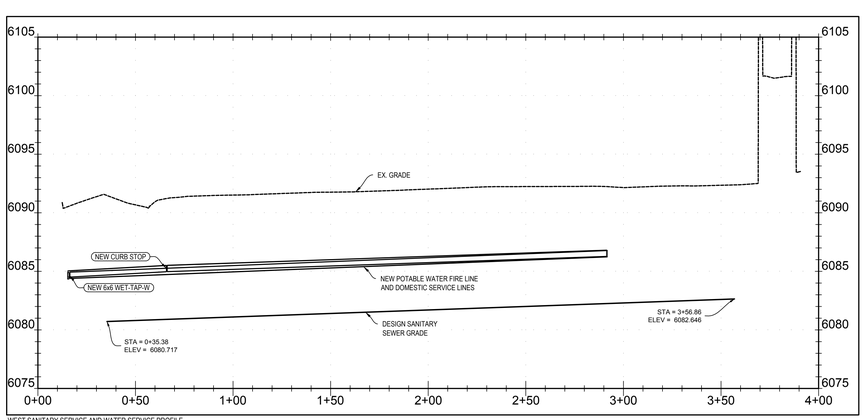
MISC. CIVIL DETAILS AND PLAN & PROFILES 2

SCALE VARIES

3CG501

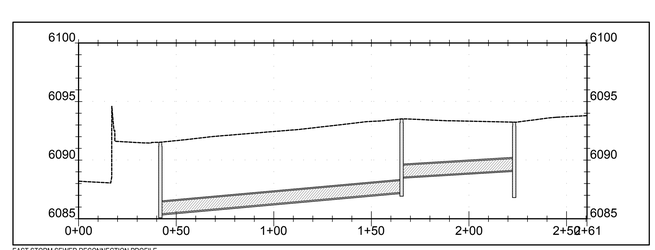
Schematic Design





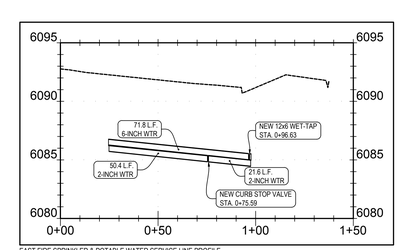
WEST SANITARY SERVICE AND WATER SERVICE PROFILE

SCALE HORIZ. 1"=30' | VERT. 1"=2'



EAST STORM SEWER RECONNECTION PROFILE

SCALE 1"=30'



EAST FIRE SPRINKLER & POTABLE WATER SERVICE LINE PROFILE

SCALE 1"=30'

GENERAL NOTES

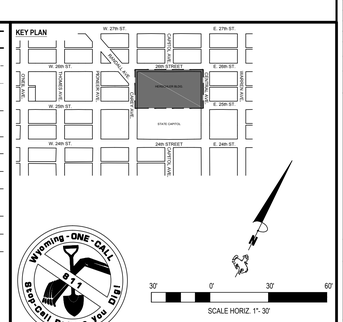
CONSTRUCTION NOTES

- A NEW CITY OF CHEYENNE ADA RAMP TYPE A
- B NEW CITY OF CHEYENNE ADA RAMP TYPE B
- C NEW CITY OF CHEYENNE ADA RAMP TYPE C
- D NEW SIDEWALK SECTION (NORMAL)
- E NEW SIDEWALK SECTION (THICKENED)
- F NEW SIDEWALK SECTION RE: LANDSCAPE PLANS
- G NEW CONCRETE PAVEMENT
- H RE: ARCHITECTURAL PLANS FOR DETAILS
- J NEW SITE RETAINING WALLS RE: STRUCTURAL PLANS FOR SECTIONS
- K NEW ELEVATED PLAZA RE: LANDSCAPE
- L RE: LANDSCAPE PLAN
- M NEW ADA PARKING SPACE (2)
- N NEW CURB END ISLAND
- O NEW RAISED MEDIAN ISLAND
- P NEW ASPHALT PAVEMENT

GRAPHIC LEGEND

SET 3/8" X 24" LONG REBAR WITH 1 1/4" ALUMINUM CAP STAMPED "SSS P.L.S. 5910"
FOUND 2" ALUMINUM CAP STAMPED "PLS 2927"
FOUND 5/8" REBAR
FOUND 3 1/4" BRASS CAP STAMPED "PLS 2927"
CONTROL POINT
TREE DECIDUOUS
TREE CONIFEROUS
MANHOLE (SANITARY SEWER)
MANHOLE (STORM SEWER)
MANHOLE (ELECTRICAL)
INLET BOX (STORM SEWER)
FIRE HYDRANT
WATER VALVE
WATER METER
IRRIGATION BOX
POWER POLE
GUY WIRE
CLEANOUT
LIGHTPOLE
TELEPHONE BOX / PEDISTAL
POWER BOX / PEDISTAL
VAULT
BIKE RACK
SEATING BENCH
STATUE
SIGN W/POST
FLAG POLE
BOLLARD
DRAINAGE ARROW
CONCRETE PAVEMENT
ASPHALT PAVEMENT
GRAVEL AREA
LEGAL BOUNDARY
PROPERTY LINE
EASEMENT LINE
CONTOURS - MINOR / MAJOR (6100 / 6100)
FENCE - BARB / WOOD / CHAIN LINK
SANITARY SEWER MAIN (SA)
STORM SEWER MAIN (ST)
WATER MAIN (W)
POWER - OVERHEAD / BURIED
TELEPHONE (T)
FIBER OPTIC (FO)
GAS (G)

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP PAI ARCHITECTS

BME
BenchMark ENGINEERS PC
1920 THOMES AVENUE
SUITE 620
CHEYENNE, WY 82009
307.634.9064

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
	10/30/2014	SD OWNER REVIEW

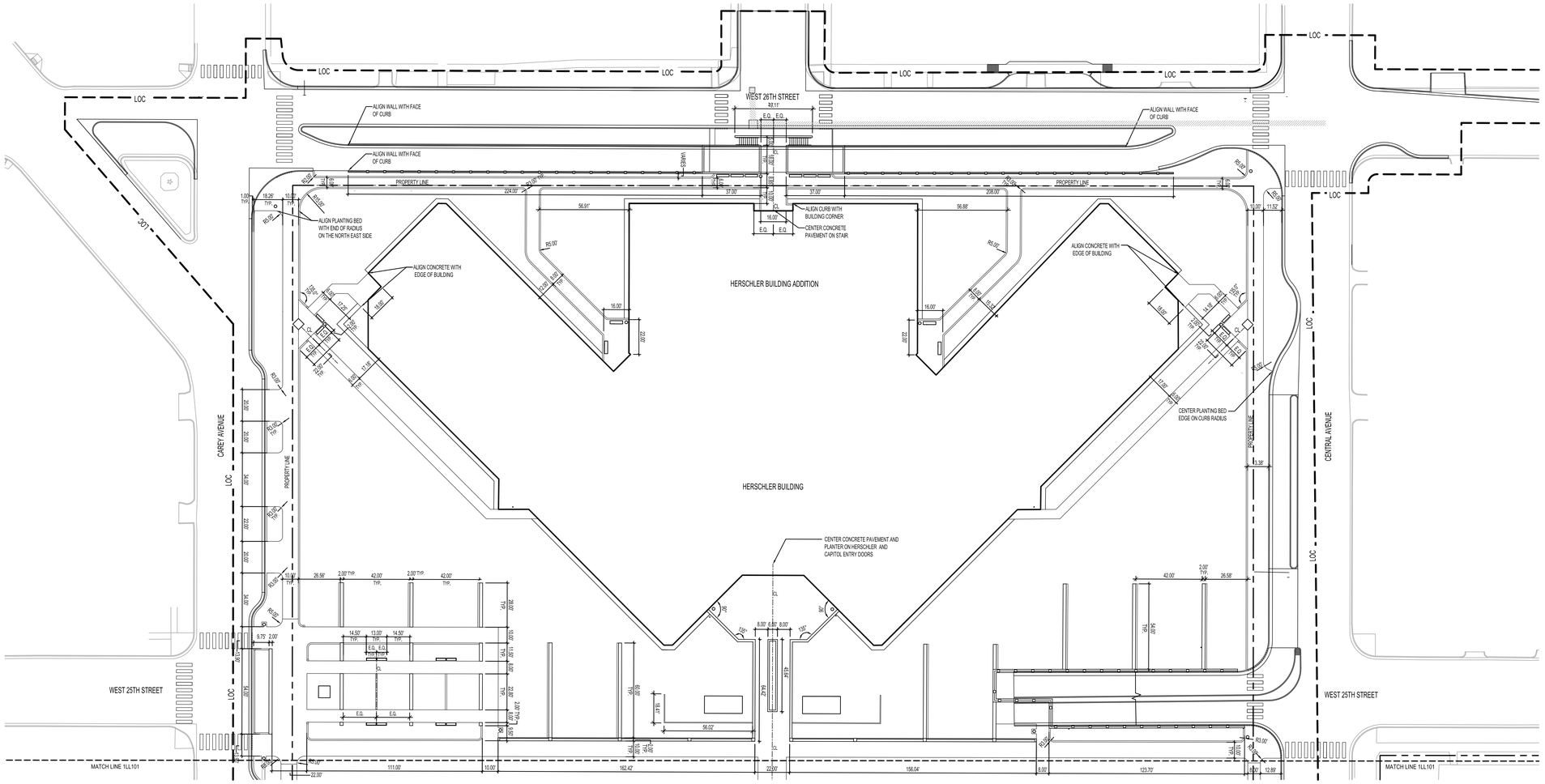
PROJECT NUMBER 1416
ORIGINAL ISSUE 09/03/14 -
PKG. IDENTIFIER

MISC. CIVIL DETAILS AND PLAN & PROFILES 1

SCALE VARIES

3CG502

Schematic Design



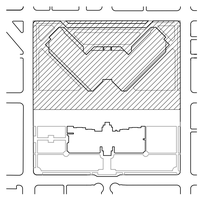
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

- LOC — LIMIT OF CONTRACT (L.O.C.)
- PROPERTY LINE
- FLUSH CONCRETE CURB
- BIKE RACKS
- TRASH RECEPTACLE
- WALL
- BENCH-A
- BENCH-B
- CONCRETE CURB
- MONUMENT LOCATION
- RAILING

KEY PLAN



NORTH

0 30' 60'

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

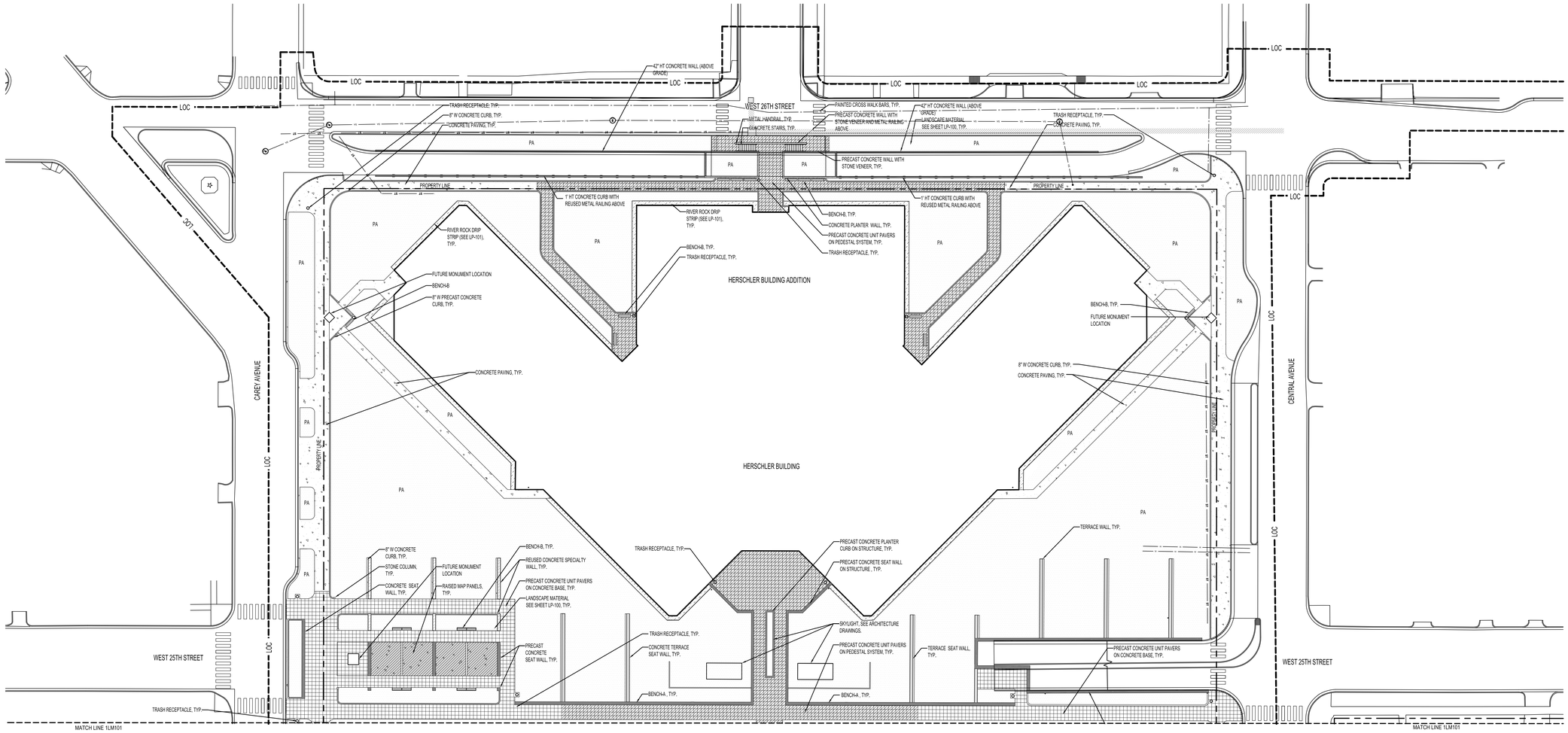
Layout Plan
(North)

SCALE 1"= 30'-0"

3LL100

Schematic Design

10/27/2014 9:43:51 AM



GENERAL NOTES

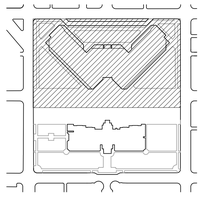
CONSTRUCTION NOTES

GRAPHIC LEGEND

- LOC — LIMIT OF CONTRACT (L.O.C.)
- PROPERTY LINE
- PRECAST CONCRETE WALL
- REUSED PRECAST CONCRETE SPECIALTY WALL
- STONE WALL
- BENCH-A
- BENCH-B
- TRASH RECEPTACLE
- BIKE RACKS
- CONCRETE TERRACE SEAT WALL
- PRECAST CONCRETE CURB
- CONCRETE PAVING (DETAIL 7D/3LD501)
- STONE DRIP STRIP
- PRECAST CONCRETE UNIT PAVERS ON CONCRETE BASE
- PRECAST CONCRETE UNIT PAVERS ON PEDESTAL SYSTEM
- RAISED MAP PANEL LOCATION
- DETECTABLE WARNING
- FLUSH CONCRETE CURB
- EJ — EXPANSION JOINT
- MONUMENT LOCATION
- CONTROL JOINT
- REUSED METAL RAILING

PA — PLANTING AREA , SEE SHEET LP100

KEY PLAN



NORTH

0 30' 60'

10/27/2014 9:43:51 AM

State of Wyoming

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Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

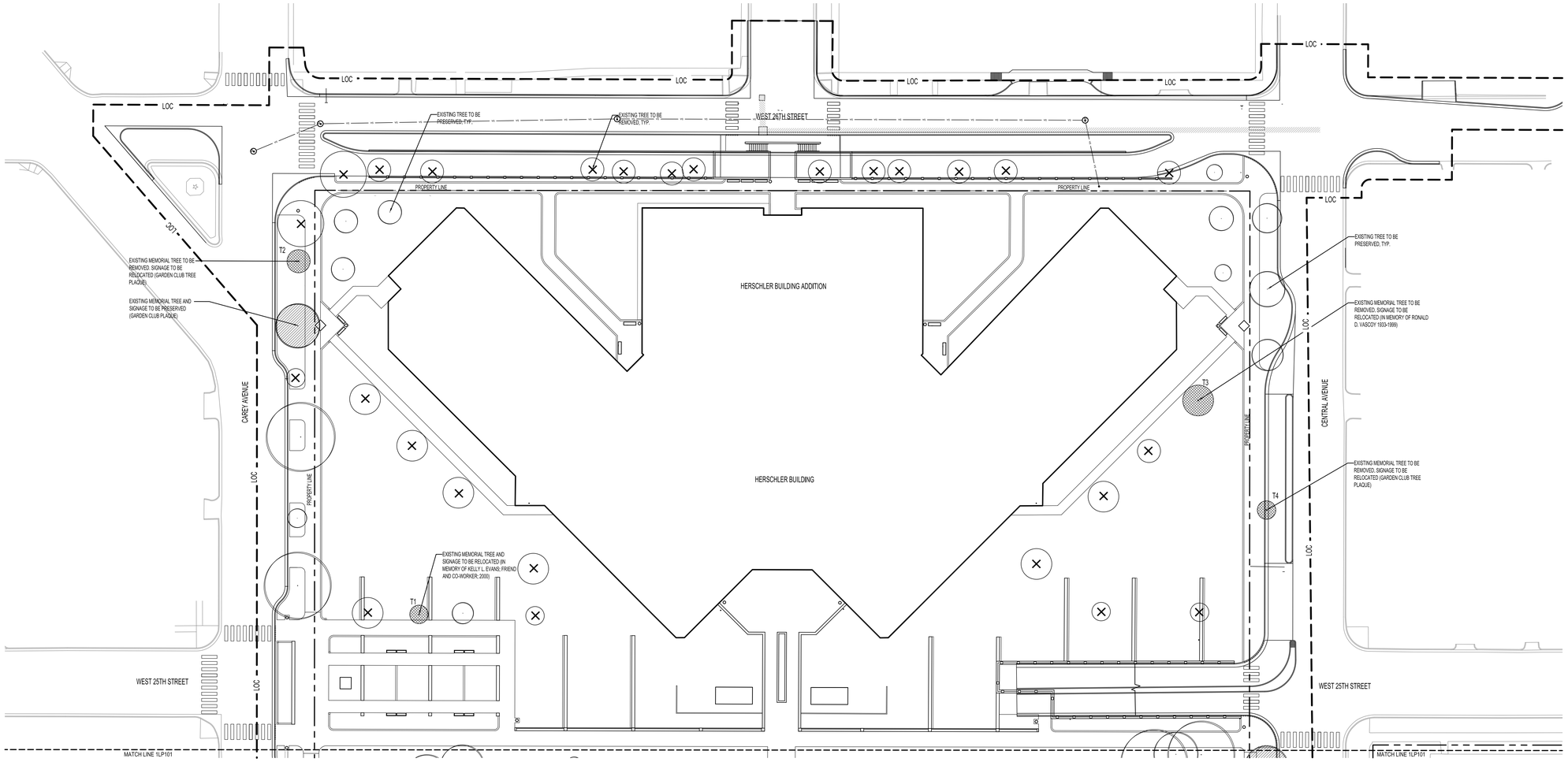
PROJECT NUMBER: 203619
ORIGINAL ISSUE:
PKG. IDENTIFIER: 3

Landscape Materials Plan (North)

SCALE: 1"= 30'-0"

3LM100

Schematic Design



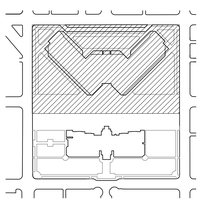
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

- LOC — LIMIT OF CONTRACT (L.O.C.)
- PROPERTY LINE
- EXISTING TREE TO BE PRESERVED
- EXISTING TREE TO BE REMOVED
- EXISTING MEMORIAL TREE AND SIGNAGE TO BE PRESERVED
- EXISTING MEMORIAL TREE AND/OR SIGNAGE TO BE RELOCATED
- T(X) — EXISTING MEMORIAL TREE AND/OR SIGNAGE TRANSPLANTED TREE NUMBER
- TREE PRESERVATION FENCE

KEY PLAN



NORTH

0 30' 60'

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

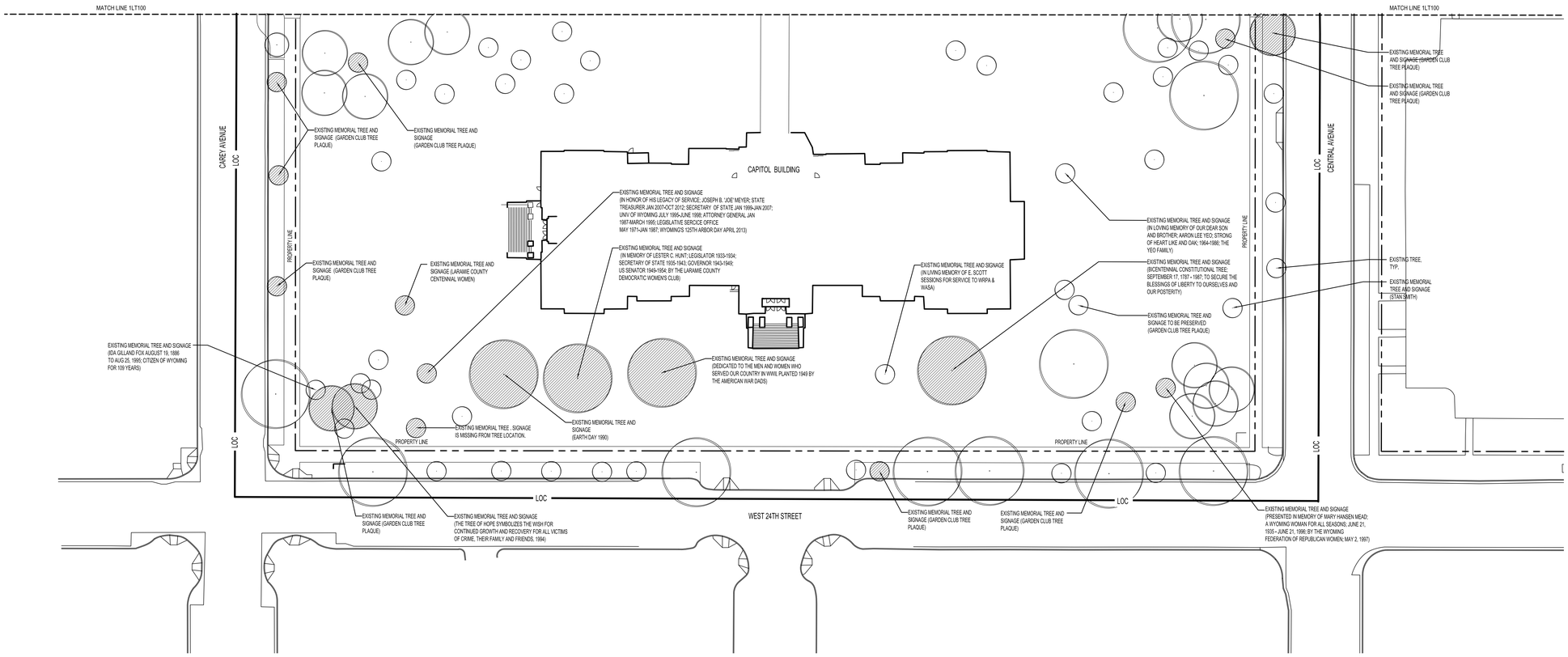
Landscape Tree Monumentation Plan (North)

SCALE 1" = 30'-0"

3LT100

Schematic Design

10/27/2014 9:43:51 AM



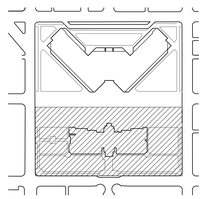
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

- LOC — LIMIT OF CONTRACT (L.O.C.)
- **PROPERTY LINE**
- EXISTING TREE
- EXISTING MEMORIAL TREE

KEY PLAN



NORTH

0 30' 60'

State of Wyoming

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Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

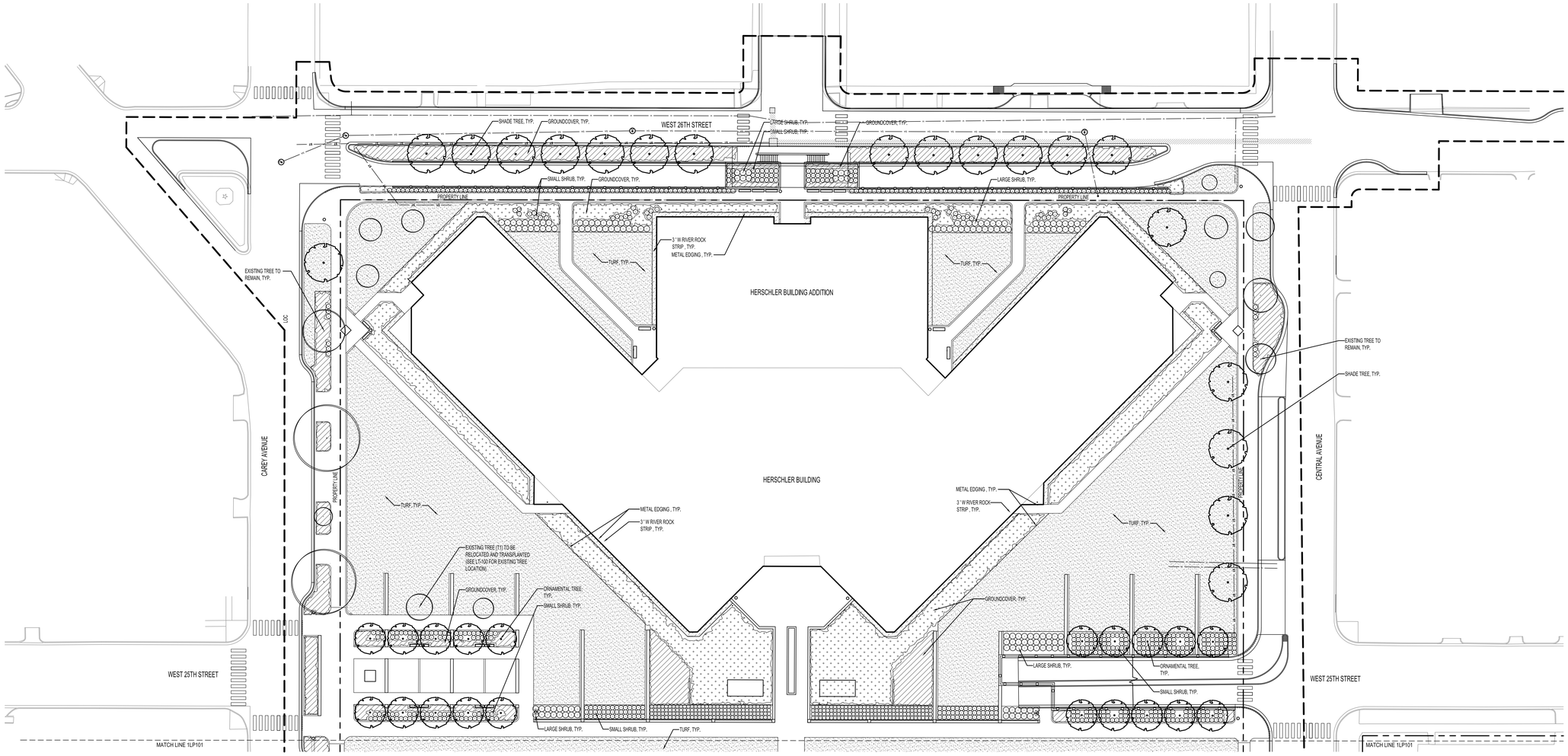
Landscape Tree Monumentation Plan (South)

SCALE 1"= 30'-0"

3LT101

Schematic Design

10/27/2014 9:43:51 AM



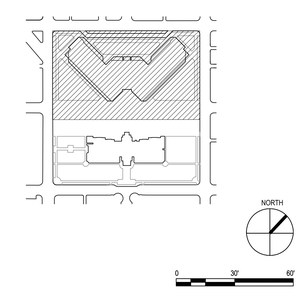
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

- LOC — LIMIT OF CONTRACT (L.O.C.)
- **PROPERTY LINE**
- EXISTING TREE TO REMAIN
- SHADE TREE
- ORNAMENTAL TREE
- LARGE SHRUB (4' O.C.)
- SMALL SHRUB (3' O.C.)
- GROUNDCOVER
- TURF
- 3 QG — PLANT LABEL

KEY PLAN



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Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

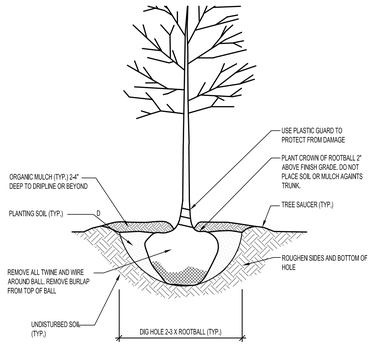
Landscape Plan (North)

SCALE 1"= 30'-0"

3LP100

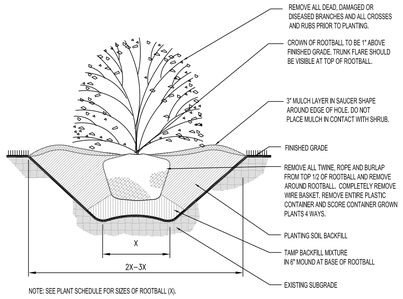
Schematic Design

10/27/2014 9:43:51 AM



7E TREE PLANTING DETAIL

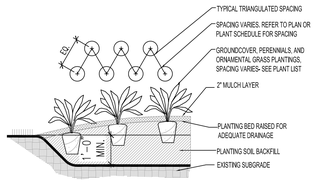
Scale: N.T.S



NOTE: SEE PLANT SCHEDULE FOR SIZES OF ROOTBALL (X).

6E SHRUB PLANTING DETAIL

Scale: N.T.S



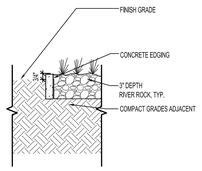
4E GROUNDCOVER PLANTING DETAIL

Scale: N.T.S

AMENDED PLANTING SOIL DEPTH CHART	
LANDSCAPE AREAS	DEPTH IN INCHES
PLANTING BEDS- ORNAMENTAL GRASSES, PERENNIALS, AND GROUNDCOVER	12"
PLANTING BEDS- SHRUBS	18"
RAISED PLANTERS	36"
TURF	6"

7D SOIL DEPTH CHART

Scale: N.T.S



5D RIVER ROCK DRIP STRIP

Scale: N.T.S

PLANT TYPE	KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	NOTES
SHADE TREE	AFA		Acer freemanii 'Autumn Blaze'	Autumn Blaze Red Maple	3" CALIPER		Single Stem
	GD		Gymnocladus dioica	Kentucky Coffeee Tree	3" CALIPER		Single Stem
	TAR		Tilia Americana 'Redmond'	Redmond American Linden	3" CALIPER		Single Stem
ORNAMENTAL TREES	AGA		Amelanchier x Grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	8' HT	BB	Single Stem 4' to Canopy
DECIDUOUS SHRUBS	HA		Hydrangea arborescens 'Annabelle'	Annabelle Hydrangea	#5	CG	4'-0" O.C.
	HM		Hydrangea macrophylla 'All Summer'	All Summer Hydrangea	#5	CG	4'-0" O.C.
	PF		Potentilla fruticosa 'Jackmanii'	Jackman's Potentilla	24" HT	BB	3'-0" O.C.
	RA		Rhus aromatica 'Grow-Low'	Grow Low Sumac	#3	CG	3'-0" O.C.
	RI		Ribes alpinum 'Green Mound'	Green Mound Alpine Current	30" HT	BB	3'-0" O.C.
	RO		Rose 'Flower Girl'	Flower Girl Shrub Rose	24" HT	BB	3'-0" O.C.
	SP		Spiraea japonica 'Little Princess'	Little Princess Spirea	24" HT	BB	3'-0" O.C.
	SD		Symphoricarpos x doorenbosii 'Marleen'	Marleen Pink Snowberry	24" HT	BB	3'-0" O.C.
	SM		Syringa meyeri 'Palibin'	Dwarf Korean Lilac	30" HT	BB	4'-0" O.C.
	VB		Viburnum opulus "Compactum'	Compact European Viburnum	30" HT	BB	4'-0" O.C.
EVERGREEN SHRUBS	BM		Buxus Microphylla 'Green Velvet'	Green Velvet Boxwood	24" HT	BB	3'-0" O.C.
	IM		Ilex Meserveae 'Blue Prince /Princess'	Blue Prince /Princess Holly	24" HT	BB	3'-0" O.C.
	TM		Taxus x Media 'Tautonii'	Taunton Yew	36" HT	BB	4'-0" O.C.
Perennials	al		Allium cernum	Nodding Onion	#1	CG	18" O.C.
	ar		Armeria maritima 'Dusseldorf Pride'	Dusseldorf Pride Sea Thrift	#1	CG	18" O.C.
	dd		Dianthus deltoides 'Brilliant'	Maiden Pinks	#1	CG	18" O.C.
	ep		Echinacea purpurea	Purple Coneflower	#1	CG	18" O.C.
	ha		Heuchera americana 'Green Spice'	Green Spice Coralbells	#1	CG	18" O.C.
	he		Hosta 'Elegans'	Elegans Hosta	#1	CG	24" O.C.
	hg		Hosta 'Gold Standard'	Gold Standard Hosta	#1	CG	18" O.C.
	hs		Hosta 'Sum and Substance'	Sum and Sumstance Hosta	#1	CG	24" O.C.
	hr		Hosta 'Royal Standard'	Royal Standard Hosta	#1	CG	18" O.C.
	nf		Nepeta x Faassenii	Faasen's Catmint	#1	CG	18" O.C.
	rh		Rudbeckia fulgida	Blackeyed Susan	#1	CG	18" O.C.
ORNAMENTAL GRASS	pv		Panicum vigatum 'Shenandoah'	Red Switchgrass	#1	CG	18" O.C.
	km		Koelerla macrantha	June Grass	#1	CG	18" O.C.
	sh		Sporobolus heterolepsis	Prairie Dropseed	#1	CG	18" O.C.
	ss		Schizachyrium scoparium	Little Blue Stem	#1	CG	18" O.C.
Groundcover	vm		Vinca minor	Periwinkle	24	FLAT	12" O.C.

3D PLANT SCHEDULE

Scale: N.T.S

State of Wyoming

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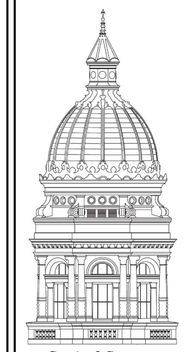
Construction Management



Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

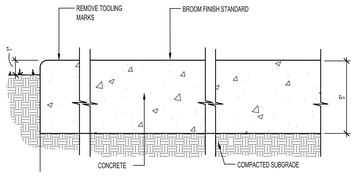
Landscape Details

SCALE SEE DRAWING

3LD500

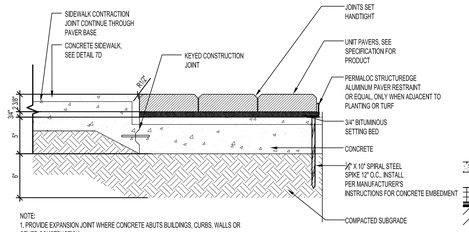
Schematic Design

10/27/2014 9:43:51 AM



NOTE:
1. ALL BROOM FINISH LINES TO BE PERPENDICULAR TO DIRECTION OF TRAVEL
2. CONTRACTOR TO MOCK UP 10'X10' SAMPLE POUR SHOWING BOTH SURFACE FINISHES.
3. CONTRACTOR TO ACHIEVE 98% MINIMUM SUBGRADE COMPACTION TO A DEPTH OF 9" MINIMUM.

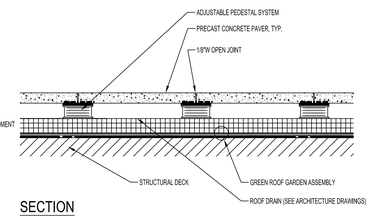
7E CONCRETE PAVING
Scale: 3" =1'-0"



NOTE:
1. PROVIDE EXPANSION JOINT WHERE CONCRETE ABUTS BUILDINGS, CURBS, WALLS OR OTHER CONSTRUCTION.
2. CONTRACTOR TO ACHIEVE A 98% MINIMUM SUBGRADE COMPACTION TO A DEPTH OF 9" PRIOR TO INSTALLATION OF CONCRETE UNDERLAYMENT

6E PRECAST CONCRETE PAVERS ON CONCRETE BASE
Scale: 3" =1'-0"

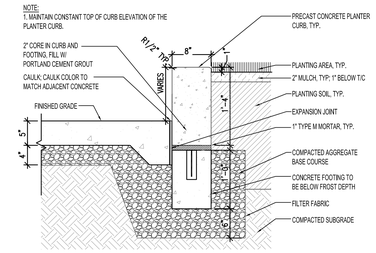
NOTE:
1. CONTRACTOR TO MAINTAIN LEVEL ELEVATION OF THE PAVERS BY ADJUSTING PEDESTAL HEIGHT WITH THE TAPERED DECK.
2. SNOW MELT SYSTEM TO BE PROVIDED UNDER PAVERS



SECTION

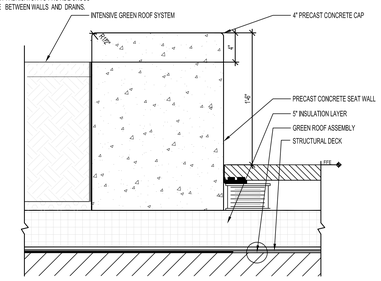
4E PRECAST CONCRETE PAVERS ON PEDESTAL SYSTEM
Scale: 1"=1'-0"

NOTE:
1. MAINTAIN CONSTANT TOP OF CURB ELEVATION OF THE PLANTER CURB.



3E PRECAST CONCRETE CURB
Scale: 3/4" =1'-0"

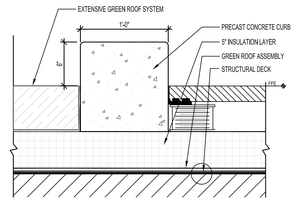
NOTE: 1. MAINTAIN LEVEL TOP OF WALL
2. PRECAST FABRICATOR TO PROVIDE CROSS DRAINAGE BETWEEN WALLS AND DRAINS.



SECTION

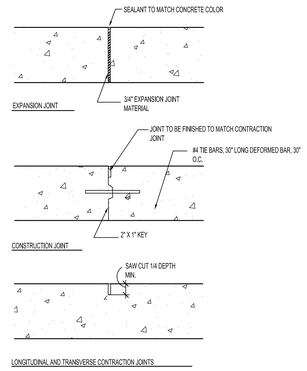
7D PRECAST CONCRETE SEAT WALL ON STUCTURE
Scale: 3/4" =1'-0"

NOTE: 1. MAINTAIN LEVEL TOP OF CURB
2. PRECAST FABRICATOR TO PROVIDE CROSS DRAINAGE BETWEEN CURBS AND ROOF DRAINS.

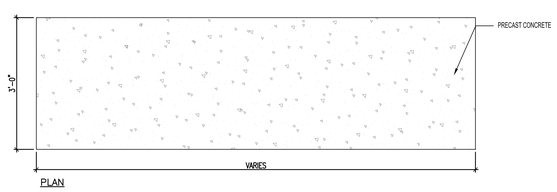


SECTION

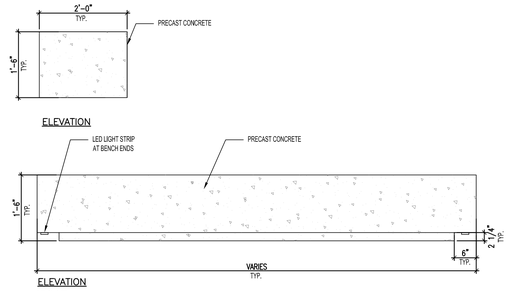
6D PRECAST CONCRETE PLANTER CURB ON STUCTURE
Scale: 3/4" =1'-0"



4D TYPICAL PAVING JOINT
Scale: 3/4" =1'-0"



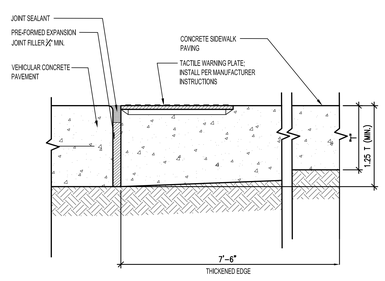
PLAN



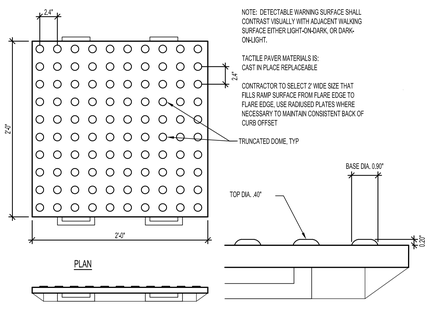
ELEVATION

ELEVATION
BENCH SIZE
(1) 2' W x 54' L x 1'-6" HT
(3) 2' W x 22' L x 1'-6" HT
(3) 2' W x 2' L x 1'-6" HT

7C CONCRETE SEAT WALL
Scale: 3/4" =1'-0"



7D DETECTABLE WARNING PLATE AT FLUSH CURB
Scale: 1" =1'-0"



NOTE: DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACE EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

TACTILE PAVER MATERIALS IS: CAST IN PLACE REPLACEABLE

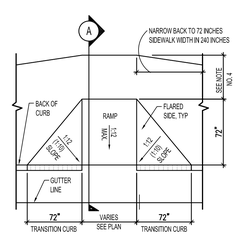
CONTRACTOR TO SELECT 2' WIDE SIZE THAT FILLS RAMP SURFACE FROM FLARE EDGE TO FLARE EDGE. USE RADIUSED PLATES WHERE NECESSARY TO MAINTAIN CONSISTENT BACK OF CURB OFFSET

PLAN

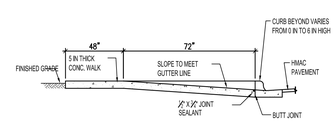
SECTION

EXPANDED SECTION

6A DETECTABLE WARNING PLATE
Scale: 1 1/2" =1'-0"



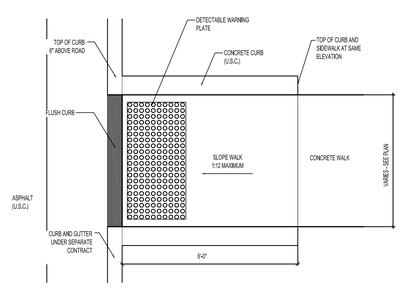
PLAN



SECTION A

NOTE:
1. ACCESSIBLE CURB RAMP DETAIL SHOWN FOR CURB DETAILING ONLY. CONCRETE WALK PAVING FOR RAMP AND RELATED WALK NOT IN CONTRACT.
2. CONTRACTION JOINTS ARE NOT SHOWN FOR CLARITY.
3. SEE UNIFORMED FEDERAL ACCESSIBILITY STANDARDS AND ADA GUIDELINES FOR COMPLETE HANDICAPPED CRITERIA.
4. IF LESS THAN 48 INCHES, FLARED SLOPE SHALL NOT EXCEED 1:12. IF 48 INCHES OR GREATER, FLARED SLOPE SHALL NOT EXCEED 1:10.

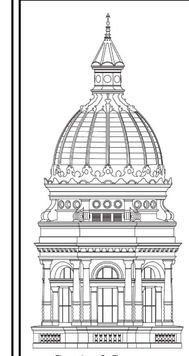
4A ACCESSIBLE RAMP TYPE-1
Scale: 3/4" =1'-0"



2A ACCESSIBLE RAMP TYPE-2
Scale: 1/2" =1'-0"

State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

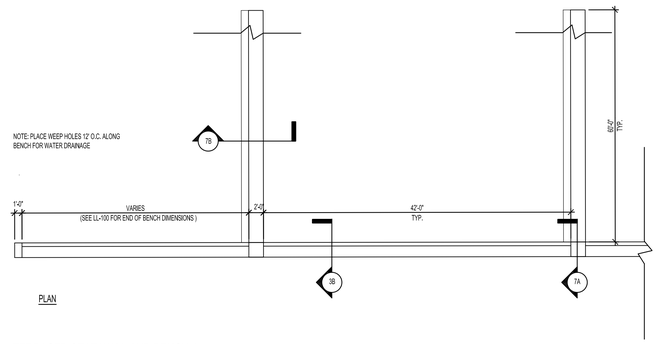
Site Details

SCALE: SEE DRAWING

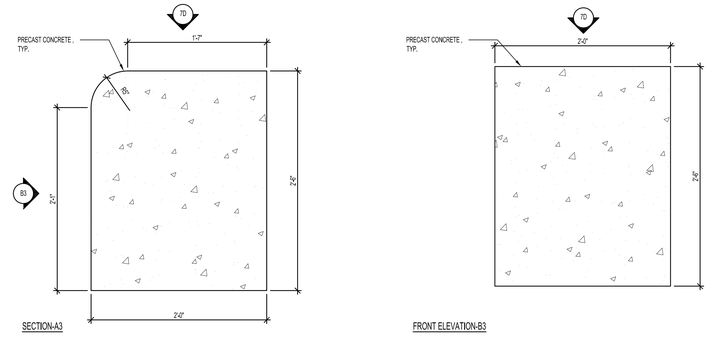
3LD501

Schematic Design

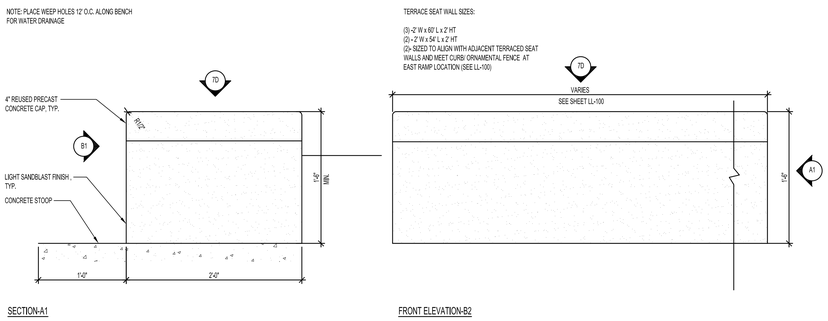
10/27/2014 9:43:51 AM



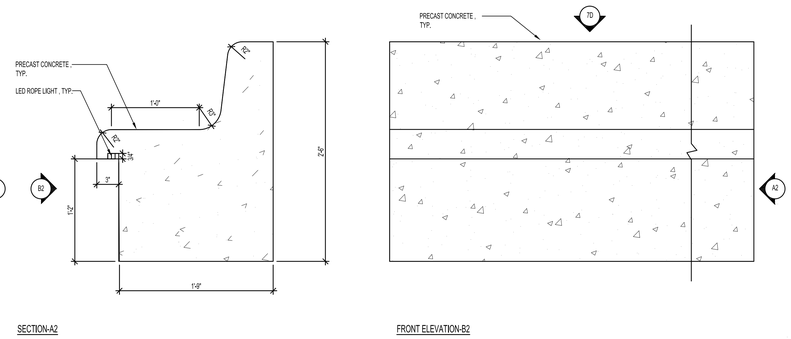
7E TERRACED SEAT WALL AND BENCH-A
Scale: 1/8" =1'-0"



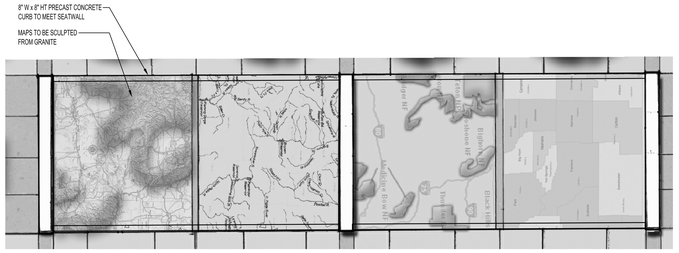
3E BENCH-A ARM REST
Scale: 1 1/2"=1'-0"



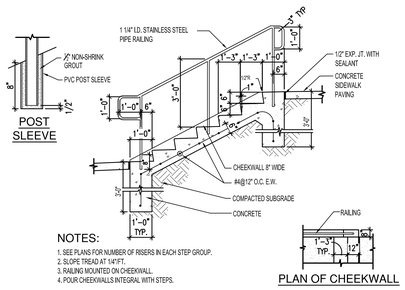
7D TERRACED SEAT WALL
Scale: 1 1/2"=1'-0"



4D BENCH-A
Scale: 1 1/2"=1'-0"

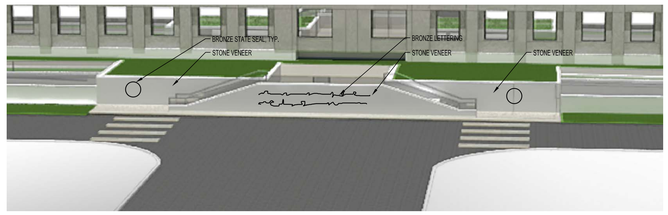


7C RAISED MAP PANELS
Scale: 1 1/2"=1'-0"

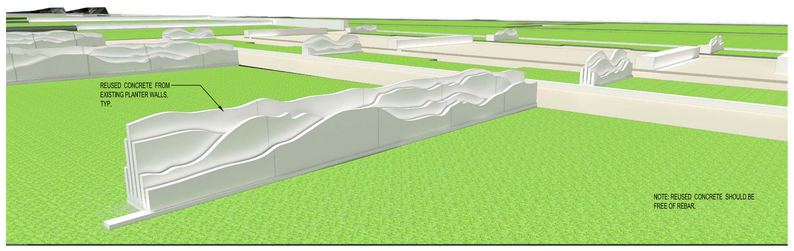


NOTES:
1. SEE PLANS FOR NUMBER OF RISERS IN EACH STEP GROUP.
2. SLOPE TREAD AT 1/4" FT.
3. RAILING MOUNTED ON CHEEKWALL.
4. POUR CHEEKWALLS INTEGRAL WITH STEPS.

4C CONCRETE STAIR
Scale:N.T.S.



3C STONE VENEER WALL
Scale: N.T.S.



7A REUSED CONCRETE SPECIALTY WALL
Scale: N.T.S

4A REUSED METAL RAILING
Scale: N.T.S.

CHASE PARK RECEPTACLE
LANDSCAPE FORMS OR SIMILAR
http://www.landscapeforms.com

2A TRASH RECEPTACLE
Scale: N.T.S.

State of Wyoming

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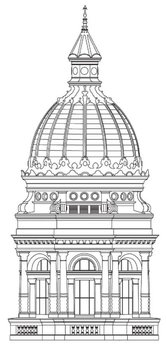
Construction Management



Capitol Square
Rehabilitation and Restoration

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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

Site Details

SCALE SEE DRAWING

3LD502

Schematic Design

10/27/2014 9:43:51 AM

GENERAL NOTES

1. ALL STRUCTURAL WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE INTERNATIONAL BUILDING CODE, LATEST EDITION.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING, AND SHEETING AND MAKE SAFE ALL FLOORS, ROOFS, WALLS, AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION, HIRED BY THE CONTRACTOR, WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.
3. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.
4. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL.

FOUNDATIONS

1. BUILDING FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL HAVING MINIMUM BEARING CAPACITIES AS SPECIFIED BY THE GEOTECHNICAL REPORT BY TERRACON DATED 8/22/14. ADEQUACY OF BEARING STRATUM SHALL BE VERIFIED IN FIELD PRIOR TO PLACING CONCRETE.ALL NECESSARY ADJUSTMENTS TO THE BOTTOM OF FOOTINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
2. DO NOT PLACE BACKFILL AGAINST BASEMENT WALLS UNTIL ALL FLOORS BRACING THESE WALLS ARE IN PLACE AND HAVE ATTAINED THEIR 28 DAY STRENGTH.
3. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 3'-0" BELOW FINAL GRADE.
4. CONCRETE SHALL BE POURED IN DRY EXCAVATIONS. CONTRACTOR SHALL NOTE SOIL AND WATER CONDITIONS AS SHOWN BY BORINGS AND DEPTHS OF FOOTING AS SHOWN ON FOUNDATION PLANS.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE ACI FOLLOWING GOVERNING STANDARDS.
   A. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), LATEST EDITION. PER GOVERNING BUILDING CODE
   B. ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION
   C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE", LATEST EDITION
2. ALL CONCRETE COMPOSITE ON METAL DECK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
3. ALL OTHER CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.
4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315), LATEST EDITION.
5. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A1064, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.
6. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ALL OTHER DISCIPLINES DRAWINGS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6".
7. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
8. PROVIDE CLEARANCE FROM FACE OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
   A. SLABS: 3/4"
   B. BEAMS & COLUMNS: 1-1/2"
   C. FOOTINGS: 3"
   D. EXTERIOR WALLS: 2" FOR #6 OR LARGER, 1-1/2" FOR #5 OR SMALLER
   E. INTERIOR WALLS: 3/4"
9. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
10. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.
11. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERT AND EMBED ITEMS.
13. WELDED WIRE FABRIC REINFORCEMENT IN COMPOSITE CONSTRUCTION SHALL HAVE TENSION SPLICES AND BE ANCHORED AT DISCONTINUOUS EDGES.

PRECAST CONCRETE PLANK

1. ALL PRECAST CONCRETE PLANK WORK SHALL CONFORM TO THE "PCI DESIGN HANDBOOK, LATEST EDITION PER GOVERNING BUILDING CODE.
2. PRECAST CONCRETE PLANK MANUFACTURER SHALL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION WHO SHALL CERTIFY TO THE ARCHITECT AND ENGINEER AND ASSUME RESPONSIBILITY AS FOLLOWS:
   A. THE DESIGN OF THE PLANKS IS SAFE FOR THE LOADS SPECIFIED IN THE LOADING SCHEDULE.
   B. THE STRENGTH OF THE CONCRETE IS AS CALLED FOR IN THE DESIGN SUBMITTED.
   C. THE PLANK WAS FABRICATED IN ACCORDANCE WITH THE DESIGN PRACTICE.
   D. THE PLANK WAS ERECTED IN ACCORDANCE WITH THE DESIGN AS WELL AS ACCEPTABLE STANDARDS OF CONCRETE AND ENGINEER PRACTICE.
3. PRECAST CONCRETE PLANK MANUFACTURER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
4. ALL OPENINGS IN THE PLANK MUST BE SHOP DETAILED FIRST. PLANK PARALLEL AND ADJACENT TO THE OUTSIDE WALL SHALL BE FULL WIDTH.
5. GROUTING OF PLANK KEYS AND UNDER BEARING WALL ABOVE SHALL BE NON SHRINK, NONMETALLIC GROUT 3,000 PSI AT 28 DAYS. GROUT BEFORE BEARING WALLS ABOVE ARE STARTED.
6. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE USED FOR CONCRETE PLANK SHALL BE 5,000 PSI AT 28 DAYS AND MADE AND TESTED AS PER ASTM C31 AND C39. INSPECTION AND CONCRETE REPORTS SHALL BE FILED WITH THE LOCAL DEPARTMENT OF BUILDINGS.
7. TESTING AND PRODUCT VERIFICATION SHALL BE AVAILABLE FOR DISTRIBUTION.
8. OPENINGS AND INSERTS IN PLANK REQUIRED BY FIELD CONDITIONS SHALL BE APPROVED BY PLANK MANUFACTURER.
9. ALL BEARING PADS TO BE KOROLATH. MASONITE BEARING PADS SHALL NOT BE USED.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   A. AISC 360 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
   B. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE - STEEL"
2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   A. WIDE FLANGE BEAMS, COLUMNS, AND STRUCTURAL TEES: ASTM A992
   B. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE B
   C. STRUCTURAL PIPE SECTIONS: ASTM A53, GRADE B
   D. CHANNELS, ANGLES, AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
   E. BOLTED CONNECTIONS OF BEAMS/GIRDERS ARE TO BE DESIGNED AS FOLLOWS:
      a. STANDARD BEAM TO BEAM/GIRDER: A325 OR A490 BEARING TYPE BOLTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
      b. BEAM/GIRDER TO COLUMN CONNECTIONS: A325-SC OR A490-SC TYPE BOLTS (3/4" DIAMETER MINIMUM WITH HARDENED WASHERS).
   F. ANCHOR BOLTS: ASTM F1554, GRADE 36.
   G. STRUCTURAL STEEL NOTED TO BE STAINLESS STEEL SHALL BE ASTM A276 STAINLESS STEEL GRADE 304.
   H. ALL STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM F593 ALLOY 304.
   I. ALL STAINLESS STEEL NUTS SHALL CONFORM TO ASTM F594 ALLOY 304.
3. STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BE DESIGNED BY A LICENSED ENGINEER WORKING FOR THE FABRICATOR, WHO SHALL PROVIDE CALCULATIONS,
   UTILIZING LFRD LOADS AND PROCEDURES.
   A. FOR NON-COMPOSITE MEMBERS, PROVIDE CONNECTIONS BASED ON REACTION AS DETERMINED FROM AISC UNIFORM LOAD TABLE (UNLESS OTHERWISE NOTED ON PLANS).
   B. FOR COMPOSITE MEMBERS, PROVIDE CONNECTIONS BASED ON 1.5 x REACTION FROM AISC UNIFORM LOAD TABLE (UNLESS OTHERWISE NOTED ON PLANS).
   C. REINFORCING IS TO BE PROVIDED AT CONNECTIONS WHERE CUTS REDUCE THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEB ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN CONNECTION LOAD IS INADEQUATE.
   D. CONNECTIONS SHALL BE DESIGNED FOR SHEAR AND ECCENTRICITY, CONSIDERING THAT THE CONNECTION IS AN EXTENSION OF THE BEAM AND GIRDERS.
4. MINIMUM WELD SIZE IS 1/4" FILLET UNLESS NOTED OTHERWISE.
5. ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.
6. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESS WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
7. WELDING SHALL BE PERFORMED BY CERTIFIED LICENSED, AWS-QUALIFIED WELDERS. ELECTRODES SHALL BE AWS 5.1, CLASS E70XX (USE LOW HYDROGEN ELECTRODES FOR A572, GRADE 50 STEEL). WELDING ELECTRODES FOR ASTM A276-97 STAINLESS STEEL, GRADE 304, SHALL CONFORM TO AWS A5.4 FOR SHIELDED METAL ARC WELDING, ELECTRODE CLASS E304; OR AWS A5.9 FOR GAS METAL ARC WELDING, ELECTRODE CLASS ER304, Ft=70 KSI.
8. SHOP PAINT EXTERIOR EXPOSED STEEL MEMBERS, STEEL MEMBERS NOT ENCASED IN CONCRETE OR SPRAY FIREPROOFED, AND ALL STEEL MEMBERS AT THE EXTERIOR WALL WITH TNEMEC #10-99 "OR APPROVED EQUAL" FIELD PAINT ALL EXTERIOR EXPOSED MEMBERS WITH TNEMEC 530 OMNITHANE OR APPROVED EQUAL.
9. LINTELS SHALL BE INSTALLED OVER ALL OPENINGS IN MASONRY WALLS AS FOLLOWS:

MASONRY OPENING	LINTEL
4'-0" OR LESS	L4x3-1/2x5/16 LLV
4'-1" to 7'-0"	L6x3-1/2x5/16 LLV

   A. 3-1/2" LEGS ARE HORIZONTAL.
   B. PROVIDE ONE ANGLE FOR EACH 4" OF WALL THICKNESS.
   C. PROVIDE L5x5x5/16 ANGLES FOR 6" THICK WALLS AND PARTITIONS WITH OPENINGS UP TO 6'-0".
   D. PROVIDE MINIMUM 6" BEARING AT EACH END.
   E. LINTELS OVER 6'-0" SHALL BE FIREPROOFED.
10. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.
11. PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.

METAL DECK

1. METAL DECKING WORK SHALL CONFORM TO THE AISI NORTH AMERICAN "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. PER GOVERNING BUILDING CODE.
2. METAL DECKING UNITS AND ACCESSORY ITEMS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A611 OR A653 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. BEFORE FORMING, THE STEEL SHEET SHALL RECEIVE A HOT DIP GALVANIZED COATING CONFORMING TO ASTM A653, GRADE 90.
3. METAL DECKING SHALL BE SHORED AS REQUIRED BY PLANS OR BY SPAN AND LOAD CONDITIONS TO SUPPORT WET WEIGHT OF CONCRETE AND ALL CONSTRUCTION LOADS.
4. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BY APPROVED METHOD (TO BE SHOWN ON SHOP DRAWINGS) BETWEEN SUPPORTS, AT INTERVALS TO PROVIDE SUFFICIENT DIAPHRAGM STRENGTH TO MAINTAIN BUILDING ALIGNMENT AND TO SUSTAIN LOCAL CONSTRUCTION LOADS WITHOUT DISTORTION OR SEPARATION, MAXIMUM SPACING SHALL BE 3'-0" [2'-0" FOR NYC] BETWEEN SUPPORT BEAMS. END LAPS OF SHEETS SHALL BE A MINIMUM OF 2 INCHES.
5. EXCEPT AS OTHERWISE NOTED, DECK SHALL BE ATTACHED TO STRUCTURAL STEEL BY 3/4"Ø FUSION WELDS @12" ON CENTER. AT END AND INTERIOR SUPPORTS PERPENDICULAR TO THE DECK SPAN AND AT EDGE AND INTERIOR SUPPORTS PARALLEL TO THE DECK SPAN. WELDS MAY BE OMITTED IN RIBS IN WHICH SHEAR CONNECTORS ARE TO BE APPLIED, EXCEPT THAT EACH DECK SECTION SHALL HAVE SUFFICIENT WELDS TO ADEQUATELY SECURE THE DECK, BRING THE DECK INTO DIRECT CONTACT WITH THE SUPPORTING STEEL AND TO PROVIDE SUFFICIENT DIAPHRAGM STRENGTH TO MAINTAIN BUILDING ALIGNMENT.
6. PRIOR TO FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE METAL DECKING SHOWING DECK GAUGE, SIZE, AND LAYOUT AS WELL AS CLOSURE CONDITIONS, WELDS TO SUPPORTS AND SIDE LAP DETAILS.
7. ALL REINFORCED OPENINGS IN METAL DECK SHALL BE INSTALLED BY METAL DECK SUBCONTRACTOR. METAL DECK SUBCONTRACTOR TO PROVIDE REINFORCING AS PER TYPICAL DETAILS.
8. AT METAL DECK WITHOUT CONCRETE FILL THE FOLLOWING MAY BE ATTACHED WITHOUT SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER: ACOUSTICAL TILE AND GYPSUM BOARD CEILING ONLY; NO PIPING, DUCTING OR CONDUIT. MAXIMUM CEILING WEIGHT = 3.5 PSF. MAXIMUM WIRE HANGER LOAD = 60 LBS.
9. WHERE SUSPENSION OF HANGER WIRES ARE REQUIRED BY OTHERS, VERIFY AND COORDINATE LOCATIONS, PATTERNS, SPACING, ETC. WITH THE APPROPRIATE TRADE. DRILL OR PUNCH HOLES AT BOTTOM OF DECK FLUTES OF SUFFICIENT SIZE TO PASS SUPPORT WIRES. WIRE SUPPORTS HALL BE LOOPED AND SECURED WITH A MINIMUM OF THREE (3) TIGHT TURNS AROUND A MINIMUM 11/2"x12" LONG FURRING CHANNEL OR NO. 3x12" LONG REINFORCING BAR CENTERED ABOVE THE HOLE AND LAID IN THE DECK FLUTES.

POST INSTALLED ADHESIVE AND MECHANICAL ANCHORS

1. POST INSTALLED ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER TECHNICAL DATA TO INTACT BASE MATERIAL. NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION IF BASE MATERIAL CONDITION DEVIATES FROM STRUCTURAL DRAWINGS OR MANUFACTURER TECHNICAL DATA.
2. MANUFACTURER DATA FOR ALTERNATE ANCHORAGE PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE THE ICC EVALUATION SERVICE REPORT WITH ICC TESTED CAPACITY MEETING OR EXCEEDING CAPACITY OF ANCHORAGE SPECIFIED IN CONTRACT DOCUMENTS.
3. UNLESS OTHERWISE INDICATED, POST INSTALLED ANCHORAGE SHALL BE ADHESIVE TYPE HILTI HIT-HY200 MAX INTO CONCRETE, GROUT FILLED CMU OR STONE BASE MATERIAL OR HILTI-HIT HY70 INTO BRICK MASONRY OR UNGROUTED CMU BASE MATERIAL
4. EXISTING REINFORCING BARS IN THE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE EXISTING REBARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS BY A MEANS APPROVED BY THE ENGINEER OF RECORD.

SPECIAL INSPECTIONS (IBC)

1. INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   A. STEEL CONSTRUCTION (BC 1704.3, TABLE 1704.3)
      i. WELDING (BC 1704.3.1)
      ii. DETAILS (BC 1704.3.2)
      iii. HIGH-STRENGTH BOLTING (BC 1704.3.3)
   B. CONCRETE CONSTRUCTION (BC 1704.4, TABLE 1704.4)
      i. MATERIALS (BC 1704.4.1)
   C. SOILS (BC 1704.7, TABLE 1704.7)

   THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

PROGRESS INSPECTIONS

1. INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   A. FINAL (BC 109.5)

   THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE BUILDING DEPARTMENT.

RSA STANDARD ABBREVIATIONS

ADD'L	ADDITIONAL
ADJ.	ADJACENT
A/E	DESIGN TEAM OF RECORD
ALT.	ALTERNATE
ANCH.	ANCHOR
APPROX.	APPROXIMATE/APPROXIMATELY
ARCH.	ARCHITECT/ARCHITECTURAL
BLDG.	BUILDING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
BRG.	BEARING
BSMT.	BASEMENT
CANT.	CANTILEVER
CFS	COLD FORMED STEEL
C.I.P.	CAST IN PLACE
C.J.	CONTRACTION JOINT
CLG.	CEILING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COMP.	COMPOSITE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
COORD.	COORDINATE/COORDINATION
CONTR.	CONTRACTOR
COTR	CONTRACT OFFICER'S TECHNICAL REPRESENTATIVE
CTR.	CENTER
DBL.	DOUBLE
DEMO	DEMOLITION/DEMOLISH
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
D.L.	DEAD LOAD
DN.	DOWN
DTL.	DETAIL
DWG(S)	DRAWING(S)
DWL.	DOWEL
EA.	EACH
E.F.	EACH FACE
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMBED.	EMBEDMENT
E.O.	EDGE OF
ENGR.	ENGINEER

RSA STANDARD ABBREVIATIONS

E.O.R.	ENGINEER OF RECORD
EQ.	EQUAL
E.S.	EACH SIDE
E.W.	EACH WAY
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
FRMG.	FRAMING
F.S.	FAR SIDE
FT.	FEET
FTG.	FOOTING
GA.	GAGE
GALV.	GALVANIZED
G.B.	GRADE BEAM
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
H.P.	HIGH POINT
HT.	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
I.D.	INSIDE DIAMETER
I.F.	INSIDE FACE
I.J.	ISOLATION JOINT
INFO	INFORMATION
INT.	INTERIOR
JT.	JOINT
K	KIP
LB.	POUND
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
L.P.	LOW POINT
L.W.	LIGHTWEIGHT
L.W.	LONG WAY
MAS.	MASONRY
MAX	MAXIMUM
MECH.	MECHANICAL
MEP	MECH., ELECT., PLUMBING, & F.P.
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
N.F.	NEAR FACE
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
N.S.	NEAR SIDE

RSA STANDARD ABBREVIATIONS

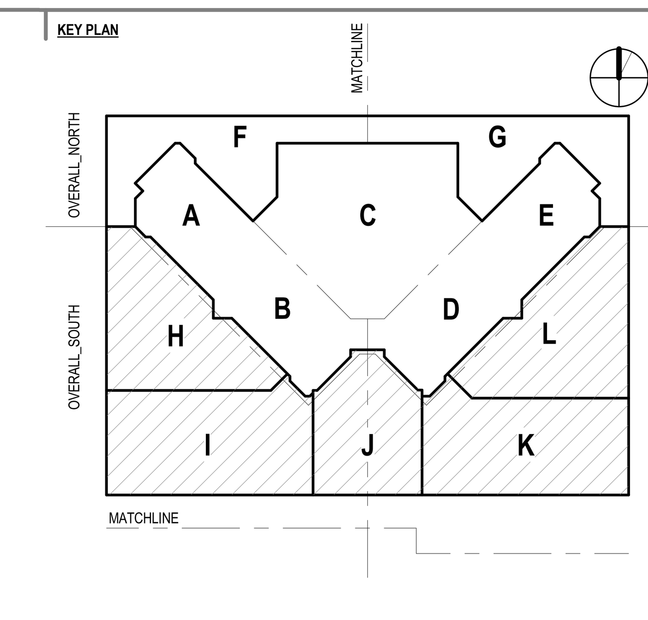
N.T.S.	NOT TO SCALE
N.W.	NORMAL WEIGHT
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OUTSIDE FACE
OPNG.	OPENING
OPP.	OPPOSITE
PC.	PIECE
P/C	PRECAST
PED	PEDESTAL
PERP.	PERPENDICULAR
PL.	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB.	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCE
P-T	POST-TENSIONED
REINF.	REINFORCE(D)/REINFORCEMENT
REQ'D	REQUIRED
REV.	REVISION
SCHED.	SCHEDULE
SECT.	SECTION
S.I.F.	STEP IN FOOTING
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
S.W.	SHORT WAY
SYM.	SYMMETRIC
T & B	TOP & BOTTOM
TEMP.	TEMPORARY/TEMPERATURE
THK.	THICK(NESS)
T.O.	TOP OF
TR.	TRANSFER
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W.P.	WORK POINT
W.W.F.	WELDED WIRE FABRIC
#	NUMBER/SIZE
Ø	DIAMETER

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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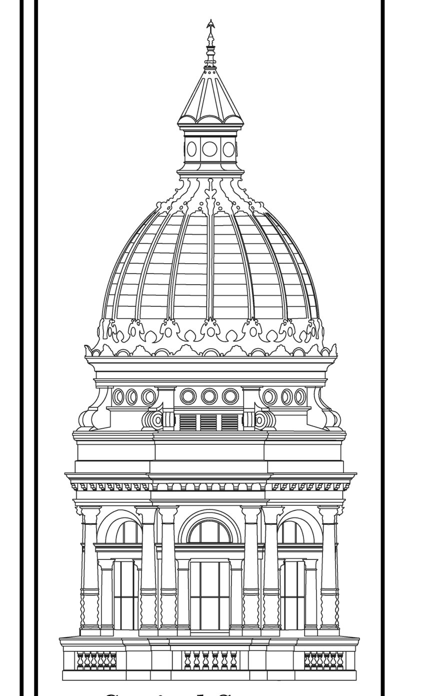

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD Owner Review

PROJECT NUMBER	203619
ORIGINAL ISSUE	
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GENERAL NOTES

SCALE

3SA000

Schematic Design

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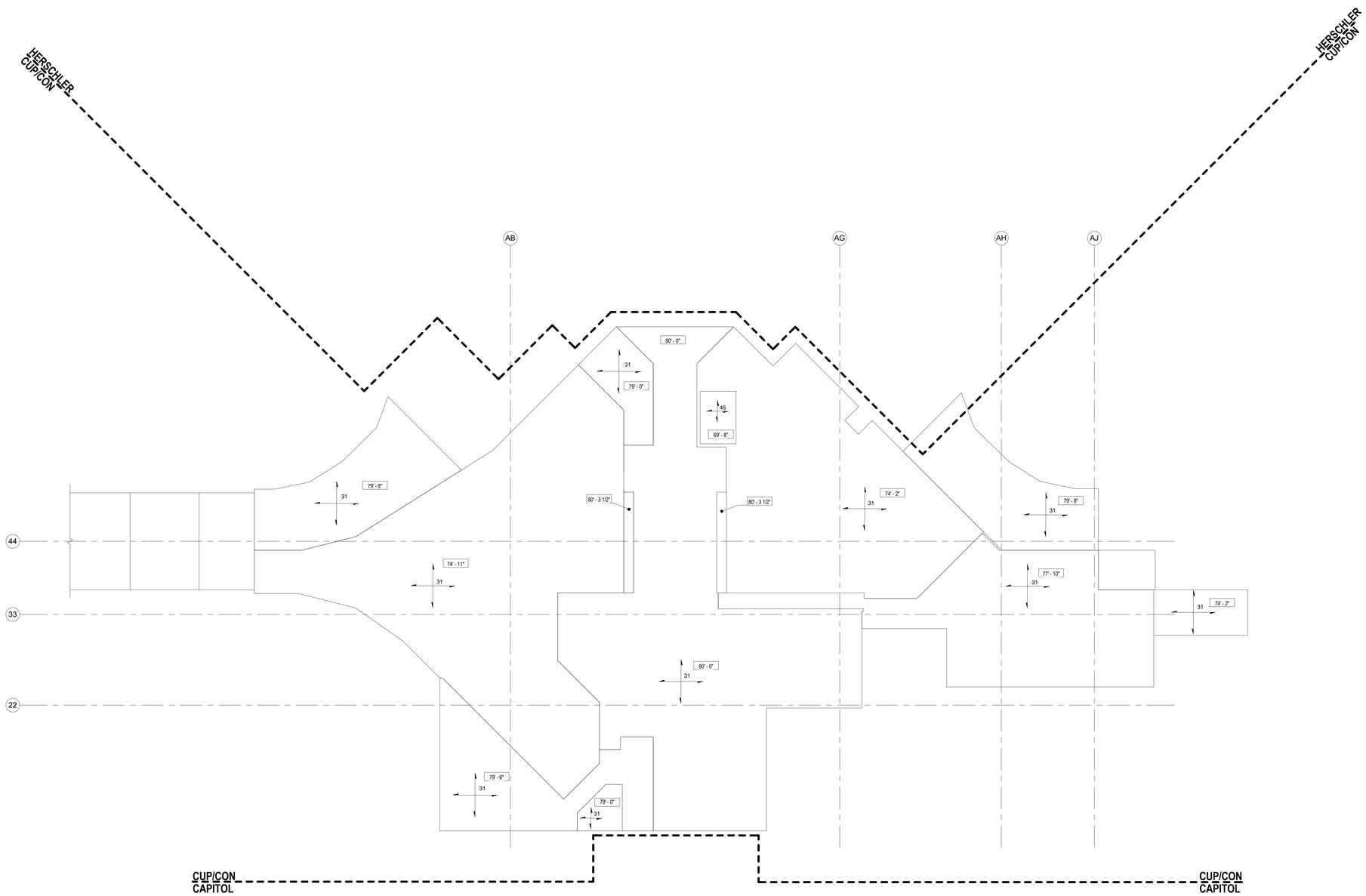


1 3ST01E OVERALL PLAN - EXISTING MAT SLAB
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. NO NEW STRUCTURAL WORK THIS SHEET.
2. FOR NEW WALLS AND COLUMNS UP FROM EXISTING MAT SLAB AT CONNECTOR, REFER TO 3ST111.

CONSTRUCTION NOTES

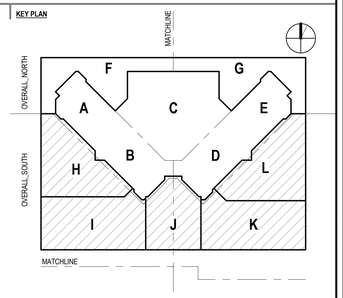
GRAPHIC LEGEND

LEGEND

X'-XX" INDICATES TOP OF SLAB ELEVATION

XX INDICATES xx" THICK EXISTING CONCRETE RAFT SLAB

KEY PLAN



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Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
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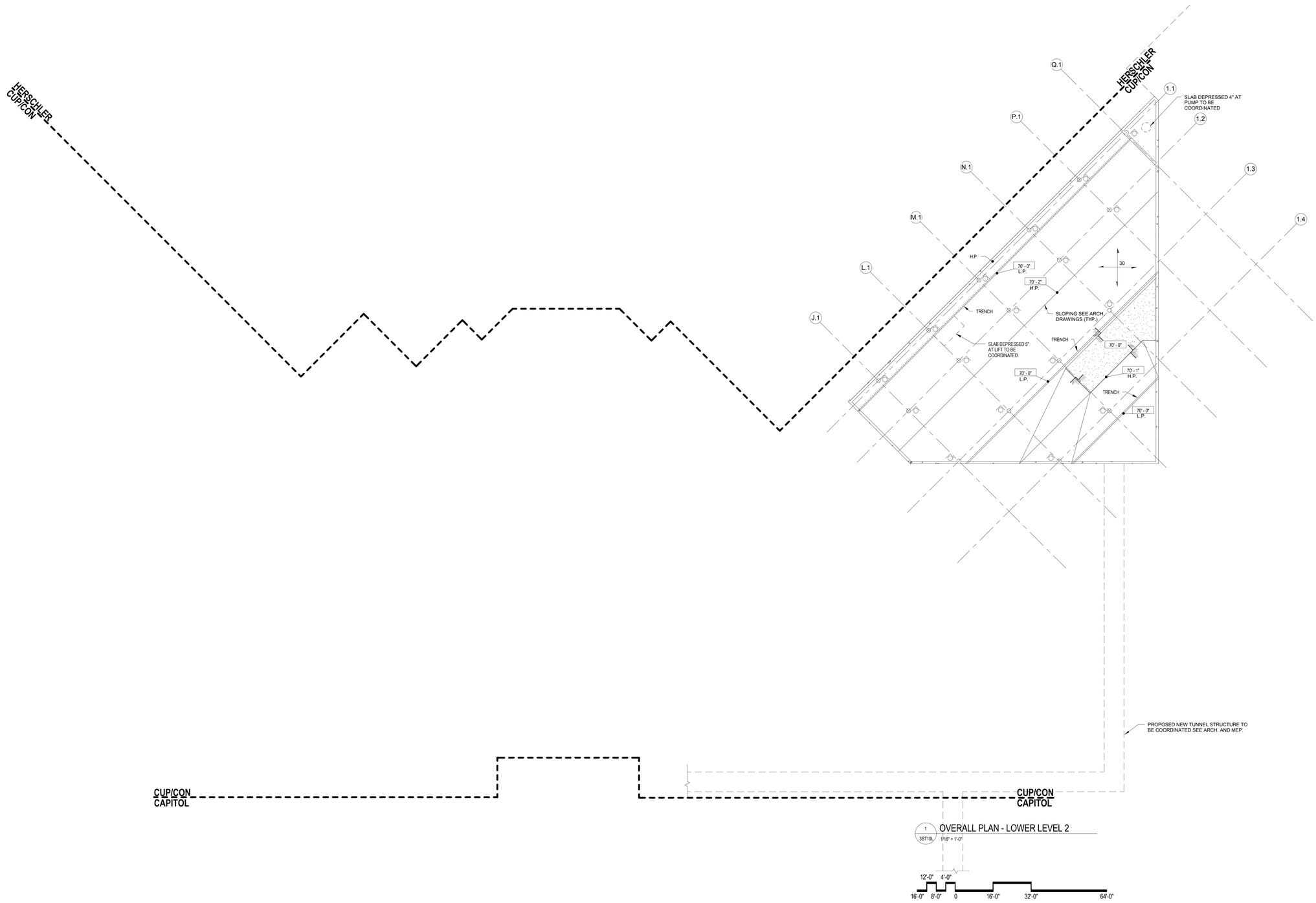
PROJECT NUMBER 203619
ORIGINAL ISSUE 09/05/14 -
PKG. IDENTIFIER

OVERALL PLAN - EXISTING MAT SLAB - SOUTH

SCALE As indicated

3ST01E

Schematic Design



GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

LEGEND

INDICATES NEW 20" CONCRETE COLUMN REINFORCED WITH 16#9 LONGITUDINAL BARS AND #3 TIES @ 18 O.C.

INDICATES NEW CONCRETE WALL, 12" THICK U.N.O. REINFORCED WITH #8 @ 12" O.C. INSIDE AND #9 @ 12" O.C. OUTSIDE FACE, TYPICAL.

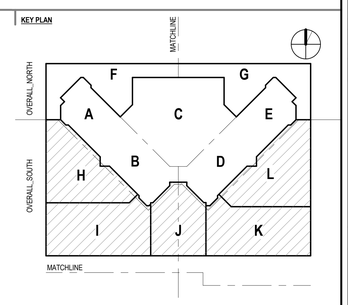
INDICATES NON-SLOPED SURFACE. SEE ARCH. PLANS.

INDICATES COLUMN UP/DOWN

XX'-XX" — INDICATES TOP OF SLAB ELEVATION. "H.P." INDICATES HIGH POINT IN SLAB. "L.P." INDICATES LOW POINT IN SLAB.

30 — INDICATES 30" THICK NEW MAT SLAB REINFORCED WITH #9 @ 12" O.C. BOTTOM BARS EA. WAY

KEY PLAN



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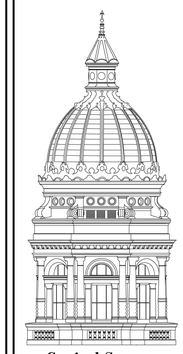

Capitol Square
Rehabilitation and Restoration

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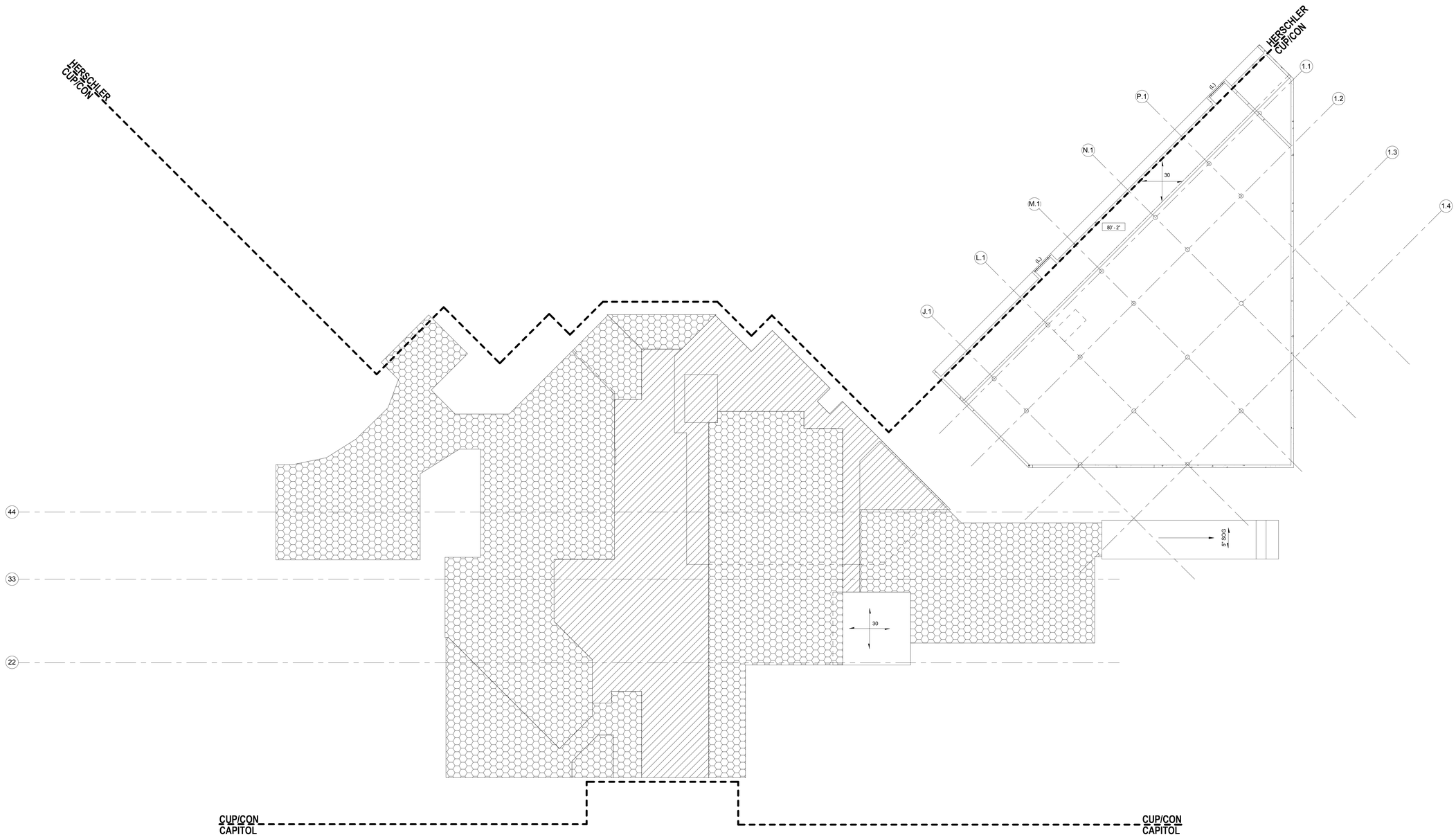
OVERALL PLAN - LOWER LEVEL 2

SCALE: As indicated

3ST10L

Schematic Design



1 / 3ST101 OVERALL PLAN -LOWER LEVEL

1/16" = 1'-0"

GENERAL NOTES

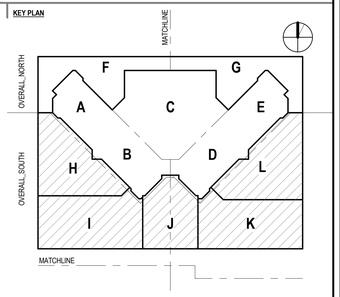
CONSTRUCTION NOTES

GRAPHIC LEGEND

LEGEND

- INDICATES NEW CONCRETE WALL 12" THICK U.N.O. REINFORCED WITH #6 @ 12" O.C. INSIDE AND #9 @ 12" O.C. OUTSIDE FACE, TYPICAL.
- INDICATES 12" OR LESS OF CONCRETE FILL OVER EXISTING MAT SLAB
- INDICATES GREATER THAN 12" OF POLYSTYRENE WITH 4" TOPPING CONCRETE OVER EXISTING MAT SLAB
- INDICATES NEW 20" CONCRETE COLUMN REINFORCED WITH 16#9 LONGITUDINAL BARS AND #3 TIES @ 18 O.C.
- 30 — INDICATES 30" THICK NEW MAT SLAB REINFORCED WITH #9 @ 12" O.C. BOTTOM BARS EA. WAY
- (L) — INDICATES STEEL LINTEL OVER OPENING IN WALL. SEE GENERAL NOTES.
- 5" SOG — INDICATES 5" SLAB ON GRADE w/ 4" WEARING SLAB. SEE ENGINEERING DOCUMENTS.

KEY PLAN



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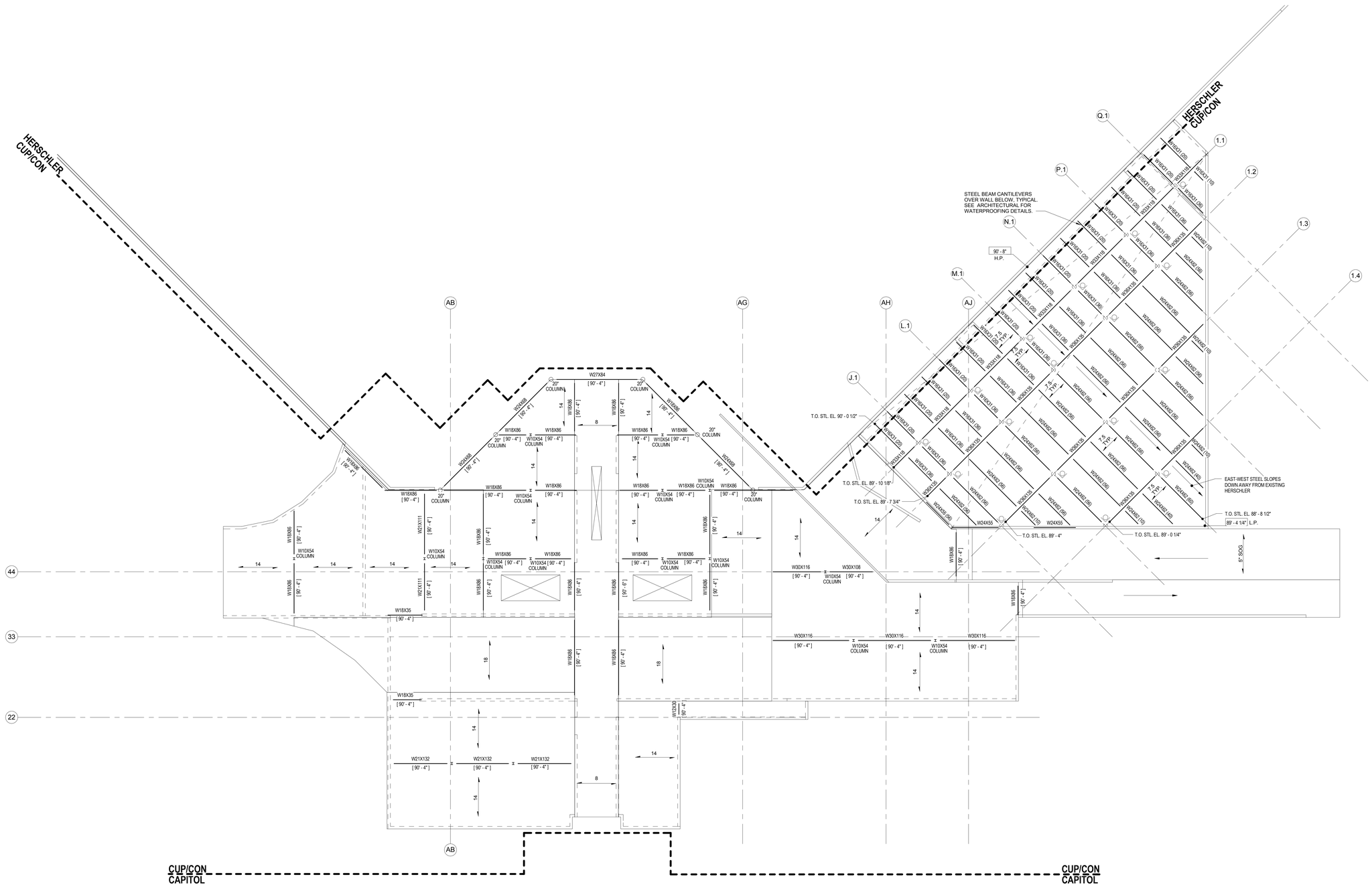
PKG. IDENTIFIER	3

OVERALL PLAN - LOWER LEVEL 1 - SOUTH

SCALE: As indicated

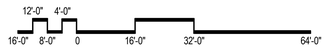
3ST101

Schematic Design



1 / 3ST111 OVERALL PLAN - ROOF PLAN

1/16" = 1'-0"



GENERAL NOTES

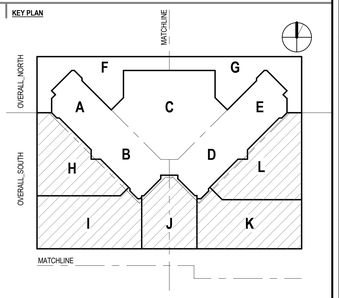
CONSTRUCTION NOTES

GRAPHIC LEGEND

LEGEND

- 7.5 — INDICATES 4.5" NWC SLAB ON 3" 18GA. METAL DECK (TOTAL SLAB THICKNESS OF 7.5") OR METAL DECK TO BE HOT DIP GALVANIZED FOR DURABILITY.
- 8 — INDICATES 6" HOLLOW CORE PRECAST PLANK + 2" TOPPING SLAB
- 14 — INDICATES 12" HOLLOW CORE PRECAST PLANK + 2" TOPPING SLAB
- 18 — INDICATES 16" HOLLOW CORE PRECAST PLANK + 2" TOPPING SLAB
- INDICATES OPENING IN SLAB
- INDICATES NEW 20" CONCRETE COLUMN REINFORCED WITH 16#9 LONGITUDINAL BARS AND #3 TIES @ 16 O/C.
- INDICATES NEW CONCRETE WALL, 12" THICK U.N.O. REINFORCED WITH #8 @ 12" O.C. INSIDE AND #9 @ 12" O.C. OUTSIDE FACE, TYPICAL.
- INDICATES NEW CONCRETE WALL BELOW, 12" THICK U.N.O.
- INDICATES NEW STEEL BEAM
- INDICATES NEW STEEL WIDE FLANGE COLUMN, W10x54 UNLESS OTHERWISE NOTED ON PLAN
- INDICATES COLUMN UP/DOWN
- INDICATES DIRECTION OF SLOPING ROOF
- XX'-XX" — INDICATES TOP OF SLAB ELEVATION. TOP OF STEEL TO BE 7 1/2" BELOW TOP OF SLAB, TYPICAL. UNLESS OTHERWISE NOTED ON PLAN.
- 5" SOG — INDICATES 5" SLAB ON GRADE w/ 4" WEARING SLAB. SEE ENGINEERING DOCUMENTS.

KEY PLAN



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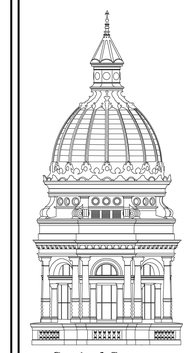

Capitol Square
Rehabilitation and Restoration

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PKG. IDENTIFIER 3

OVERALL PLAN - ROOF LEVEL - SOUTH

SCALE As indicated

3ST111

Schematic Design

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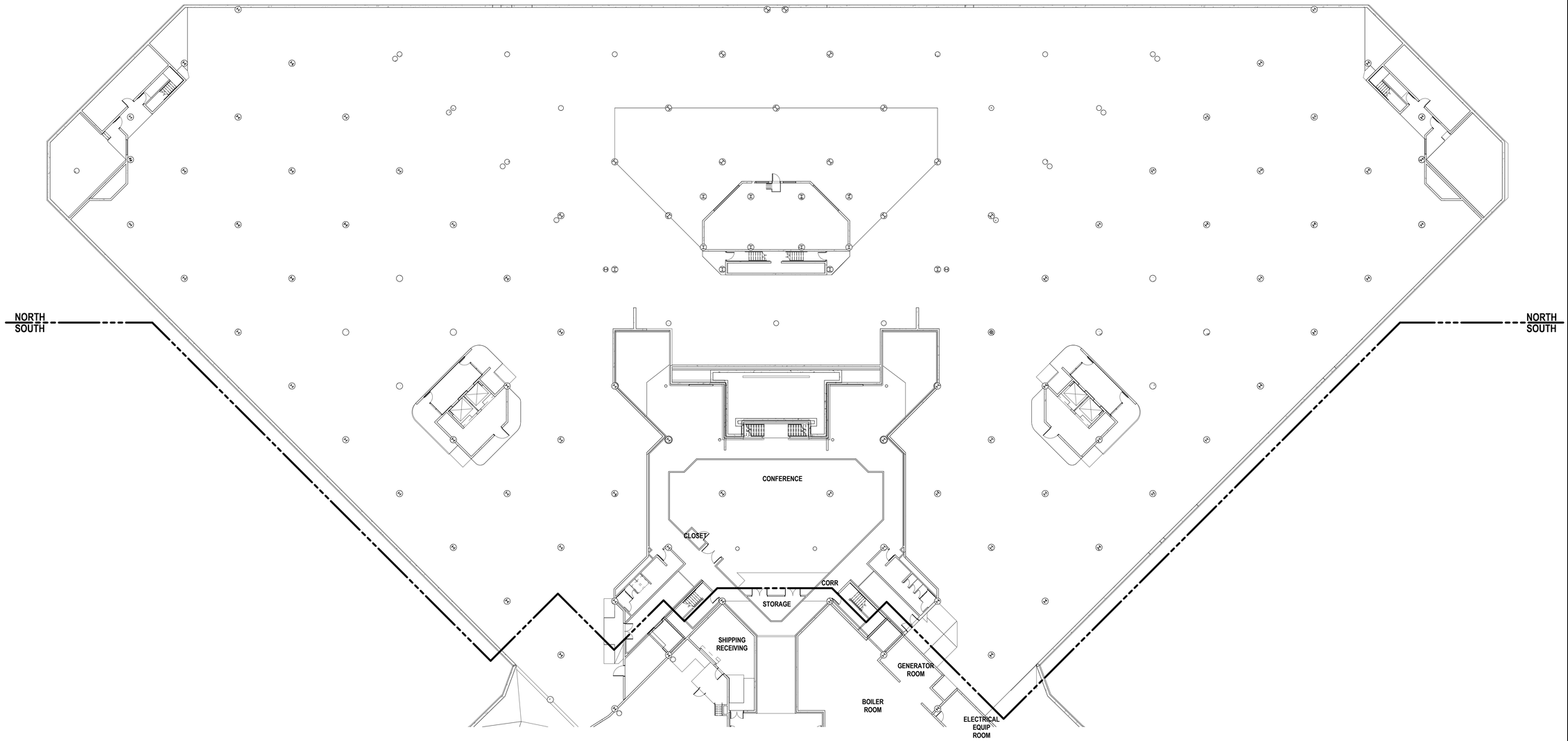


2B OVERALL EXISTING PLAN - LOWER LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"

16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

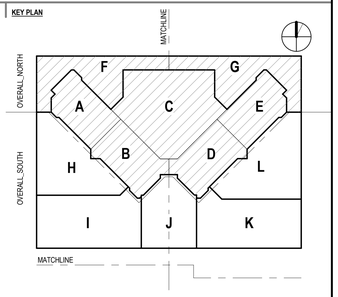
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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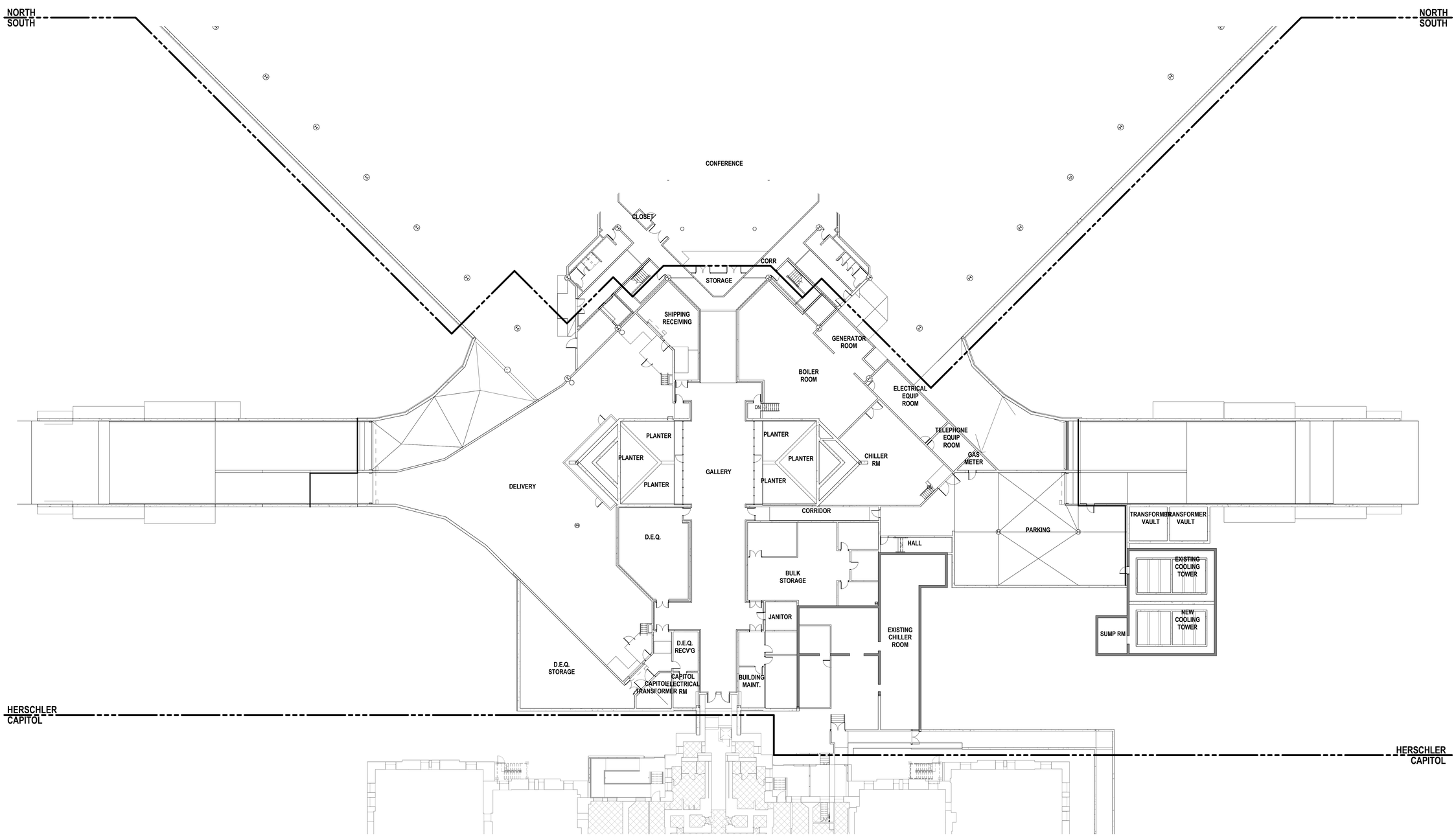
OVERALL EXISTING PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3AF100

Schematic Design



2B OVERALL EXTERIOR PLAN - LOWER LEVEL 1 - SOUTH

1/16" = 1'-0"

12'-0" 4'-0"

16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

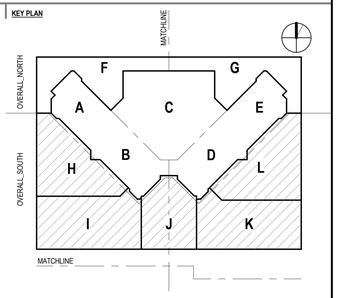
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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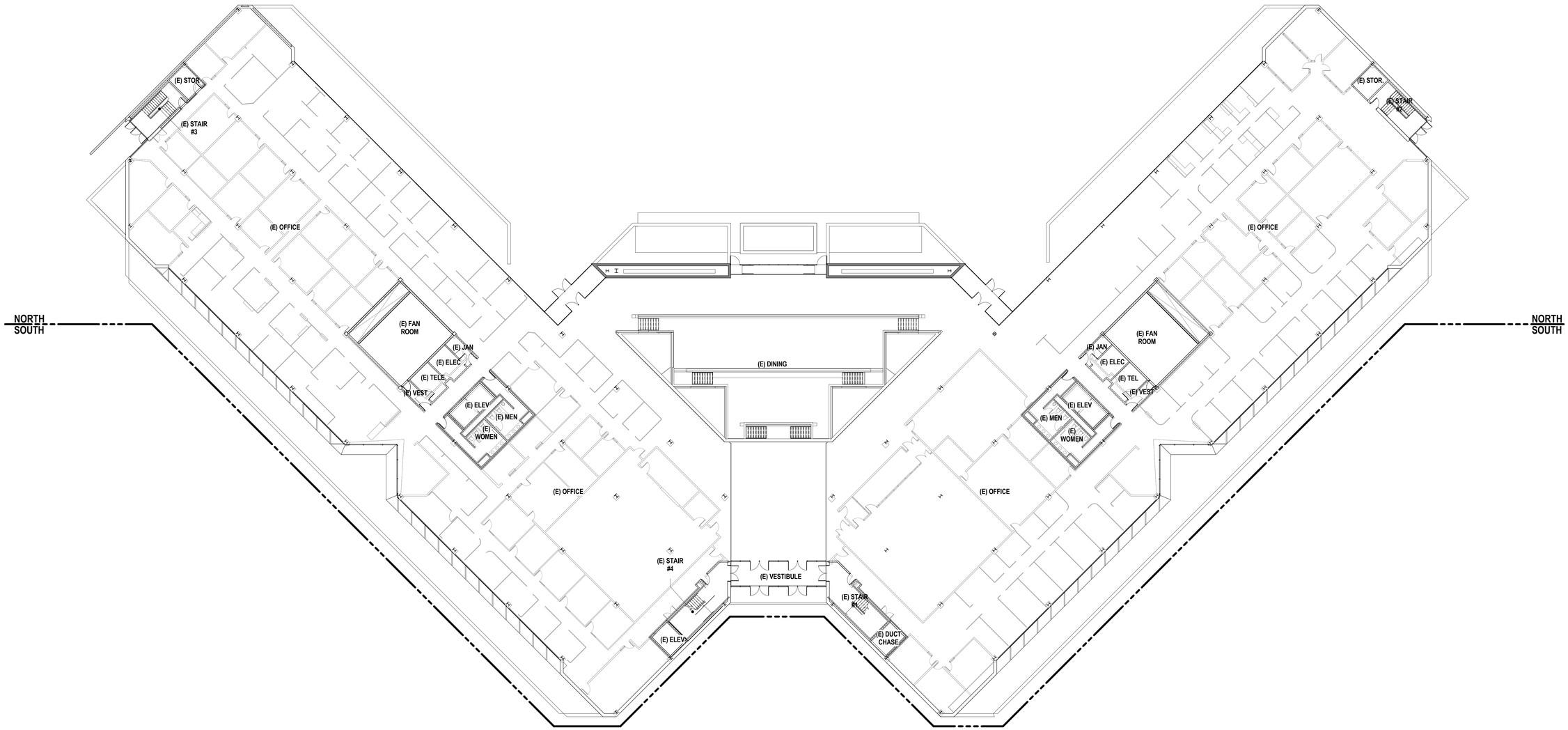
OVERALL EXISTING PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

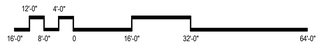
3AF101

Schematic Design



2B OVERALL EXISTING PLAN - LEVEL 1 - NORTH

1/16" = 1'-0"



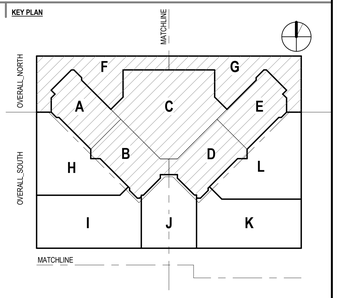
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
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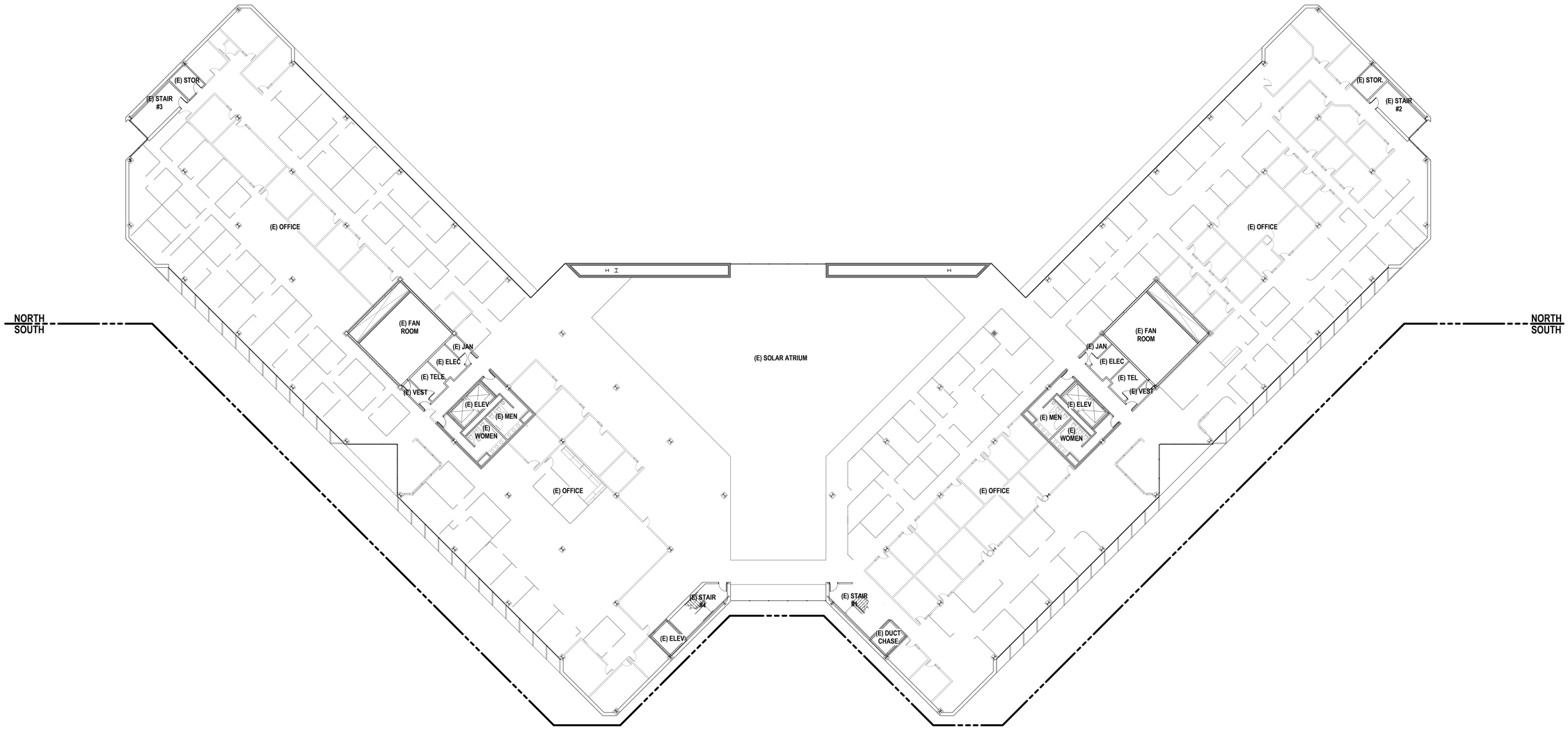
PKG. IDENTIFIER	3

OVERALL EXISTING PLAN - LEVEL 1 - NORTH

SCALE As indicated

3AF110

Schematic Design



2B OVERALL EXISTING PLAN - LEVEL 2 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

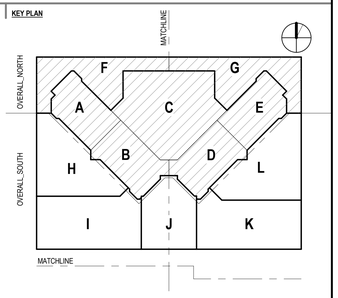
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
4	10/30/2014	SD OWNER REVIEW

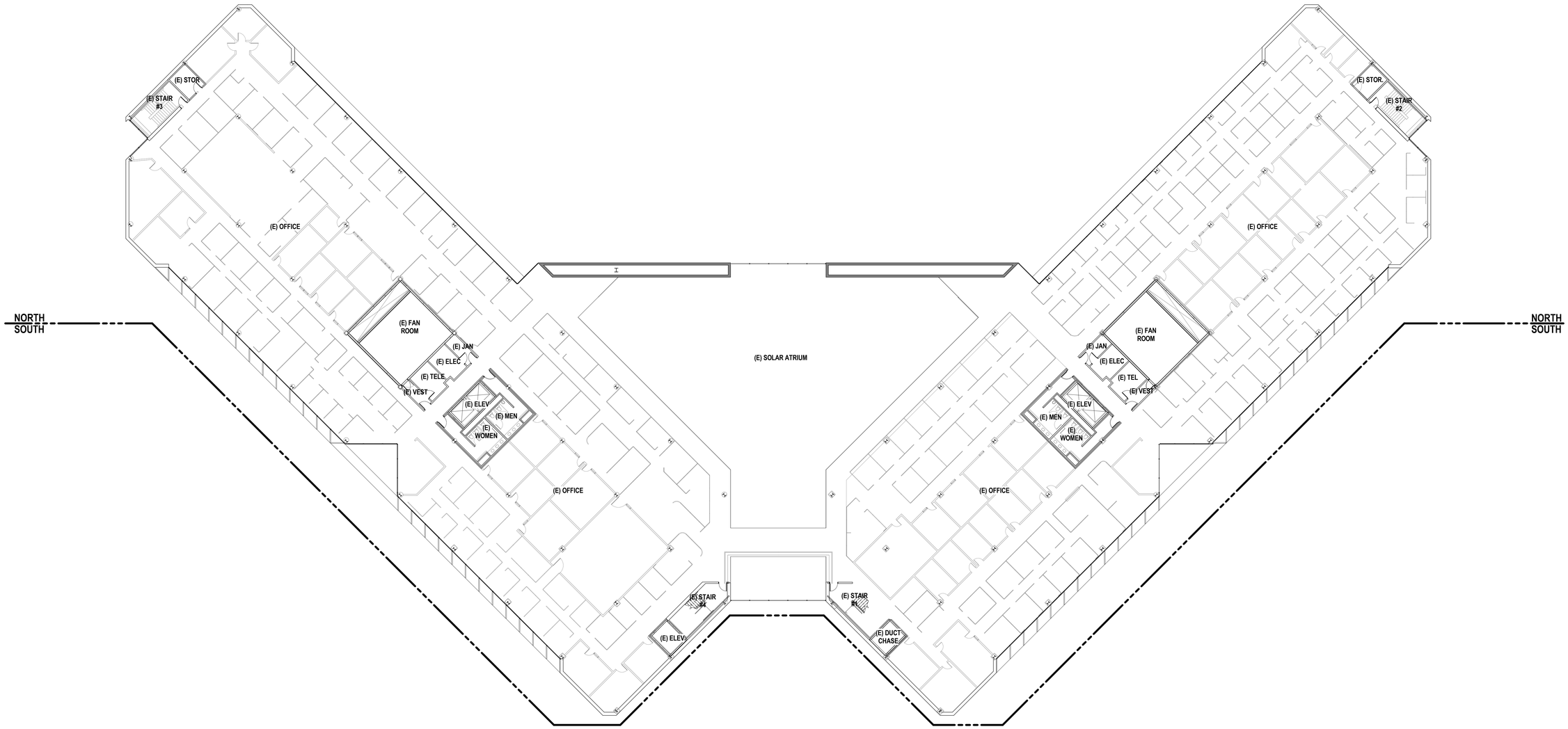
PROJECT NUMBER 203619
ORIGINAL ISSUE 10/22/14 -
PKG. IDENTIFIER 3

OVERALL EXISTING PLAN - LEVEL 2 - NORTH

SCALE As indicated

3AF120

Schematic Design



2B OVERALL EXISTING PLAN - LEVEL 3 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

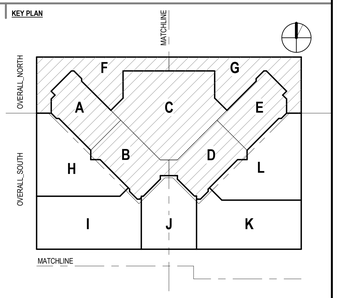
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
4	10/30/2014	SD OWNER REVIEW

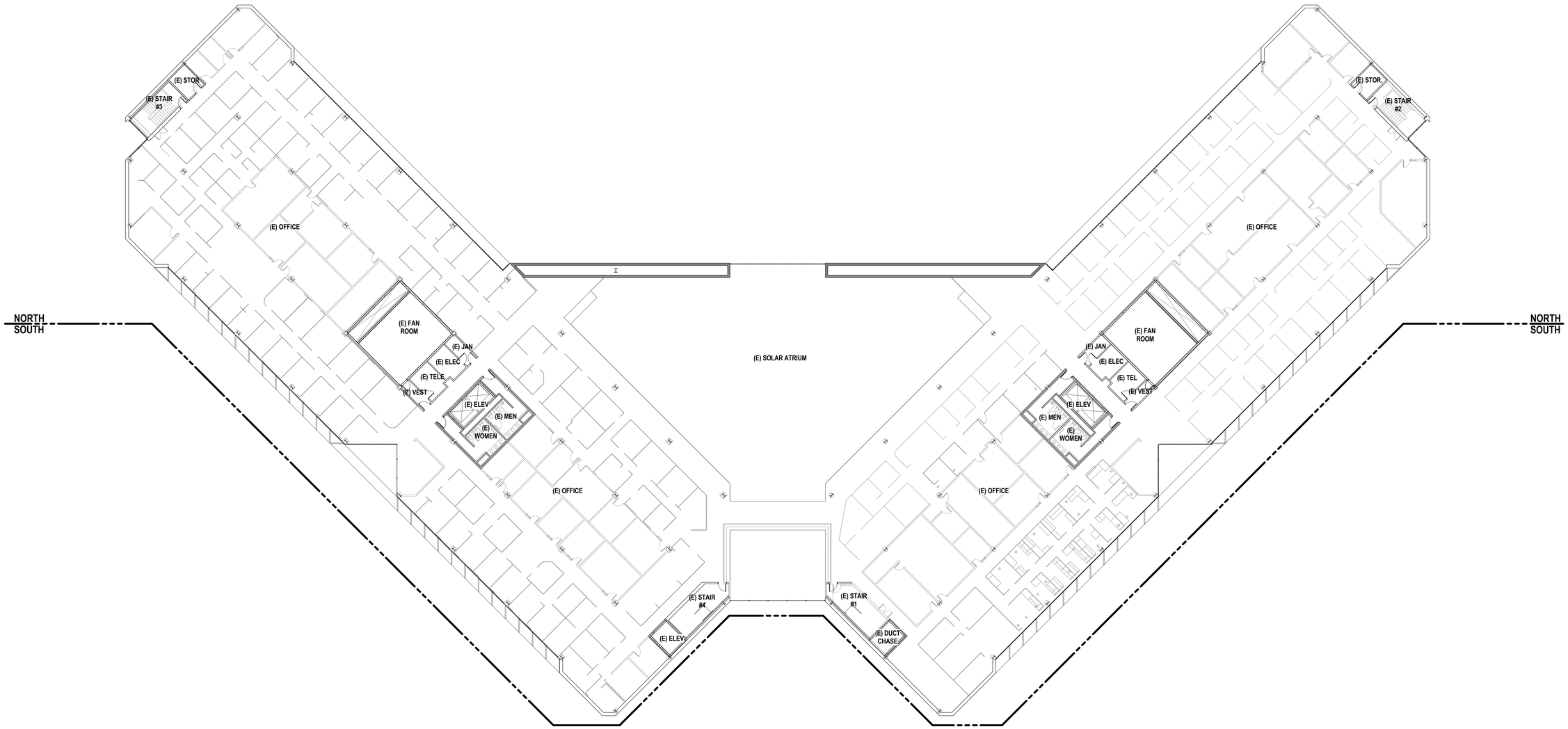
PROJECT NUMBER	203619
ORIGINAL ISSUE	10/22/14 -
PKG. IDENTIFIER	3

OVERALL EXISTING PLAN - LEVEL 3 - NORTH

SCALE As indicated

3AF130

Schematic Design



2B OVERALL EXISTING PLAN - LEVEL 4 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

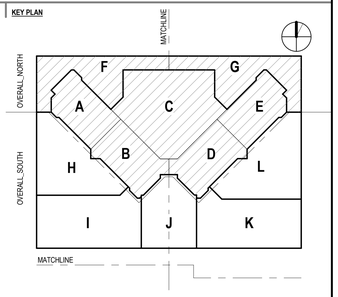
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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State of Wyoming

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Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

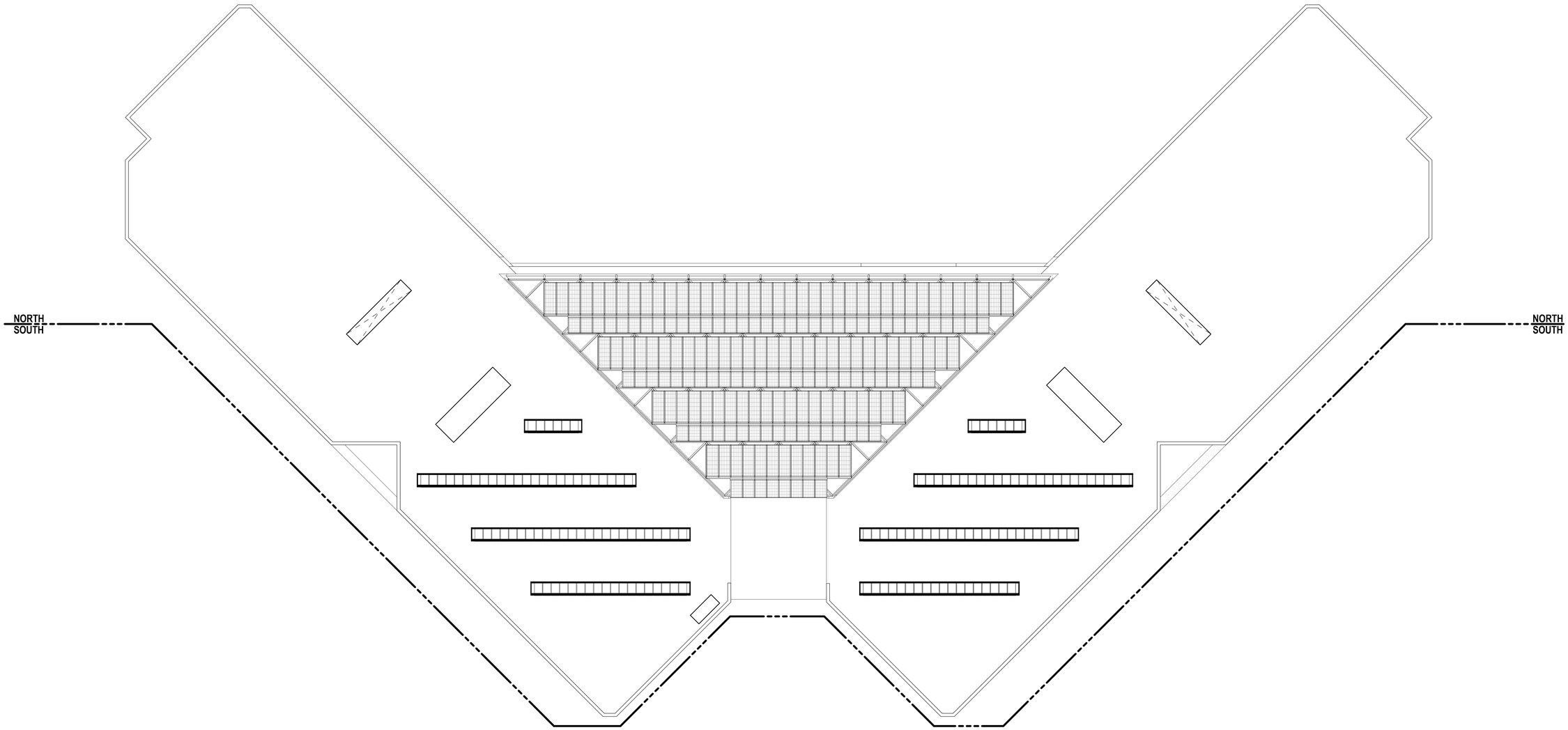
PROJECT NUMBER 203619
ORIGINAL ISSUE 10/22/14 -
PKG. IDENTIFIER 3

OVERALL EXISTING PLAN - LEVEL 4 - NORTH

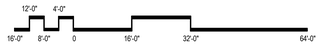
SCALE As indicated

3AF140

Schematic Design



2B OVERALL EXISTING PLAN - ROOF - NORTH
1/16" = 1'-0"



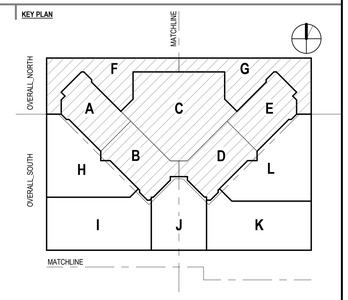
GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.
2. THIS EXISTING PLAN IS FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

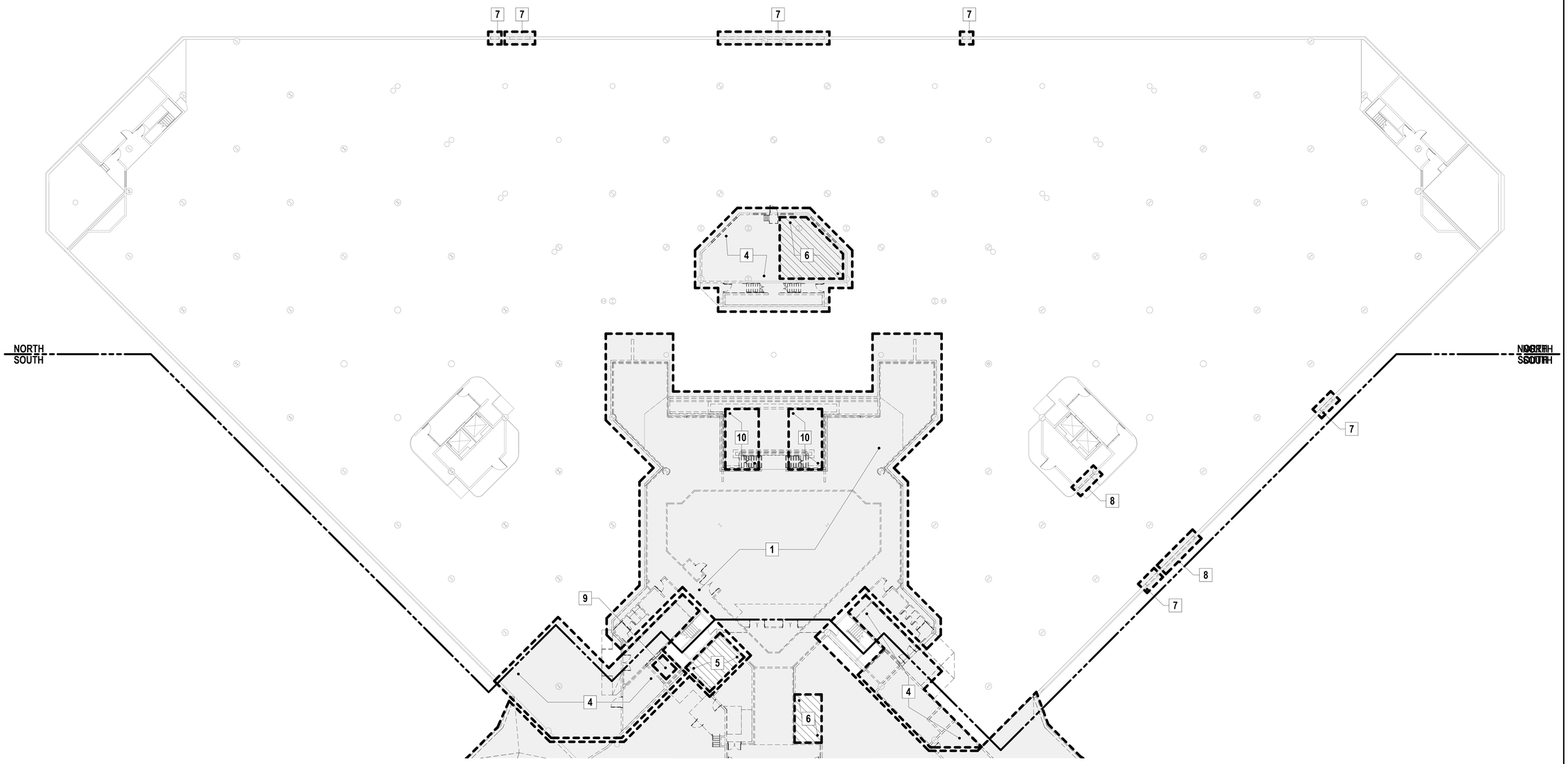
PROJECT NUMBER	203619
ORIGINAL ISSUE	10/22/14 -
PKG. IDENTIFIER	3

OVERALL EXISTING PLAN - ROOF - NORTH

SCALE As indicated

3AF150

Schematic Design



2B OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DASHED BOLD LINES INDICATE THE APPROXIMATE EXTENT OF DEMOLITION.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
3. ALL LIGHT OR HALFTONE LINES INDICATE EXISTING TO REMAIN.
4. SEE SPECIFICATIONS SECTION 01044, CUTTING AND PATCHING, AND SECTION 02050, DEMOLITION.
5. SEE ROOM FINISH SCHEDULE, MECHANICAL PLANS, AND ELECTRICAL PLANS FOR EXTENT OF NEW CEILING CONSTRUCTION OR CEILING PATCHING IN EXISTING AREAS.
6. SEE ROOM FINISH SCHEDULE FOR EXTENT OF NEW FLOORING MATERIAL IN EXISTING AREAS.
7. SEE ROOM FINISH SCHEDULE FOR EXTENT OF NEW WALL COVERING MATERIAL IN EXISTING AREAS. WHERE NEW FINISHES ARE REQUIRED REMOVE EXISTING WALL FINISHES. (TEXTURED PLASTIC COATING, VINYL WALL COVERING, PANELING, BASE, ETC.).
8. CONTRACTOR TO VERIFY ALL WALL CONSTRUCTION & FINISHES NOTED FOR REMOVAL. TAKE INTO ACCOUNT ANY DISCREPANCY AND MAKE PROPER ADJUSTMENT TO ACCOMPLISH REQUIRED CONSTRUCTION & FINISHES. IF STRUCTURAL INTEGRITY IS VIOLATED, CONTACT ARCHITECT. COORDINATE WITH OWNER.
9. COORDINATE REMOVAL OF FURNITURE AND EXISTING EQUIPMENT WITH OWNER.

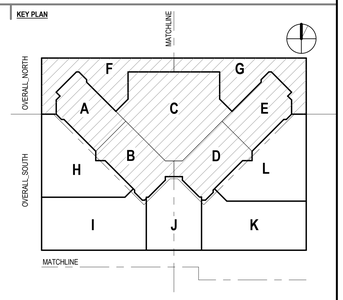
CONSTRUCTION NOTES

1. REMOVE ALL EXISTING CONSTRUCTION DOWN TO THE EXISTING MAT SLAB. PREPARE MAT SLAB FOR FUTURE CONSTRUCTION.
2. REMOVE ENTIRE WEST DRIVE.
3. REMOVE ENTIRE EAST DRIVE AND EXISTING COOLING TOWER.
4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
5. EXISTING SEWAGE EJECTOR PITS TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
6. EXISTING DEWATERING SYSTEM TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
7. REMOVE PORTIONS OF WALL TO ADD NEW DOOR.
8. REMOVE PORTIONS OF WALL TO ADD OPENINGS FOR NEW SERVICE ROUTING.
9. REMOVE EXISTING ELEVATOR SHAFT, CAB AND ALL ASSOCIATED EQUIPMENT.
10. PARTIALLY CUT EXISTING MAT SLAB FOR NEW ELEVATOR PITS.
11. REMOVE EXISTING TERRACE STRUCTURE AND ALL ASSOCIATED CONSTRUCTION. PREPARE FOR NEW LEVEL 1 FLOOR SLAB.
12. REMOVE CANTILEVERED PORTION OF EXISTING FLOOR SLAB AND PEDESTRIAN BRIDGE (AND ALL ASSOCIATED CONSTRUCTION) BACK TO MAIN STRUCTURAL GRID. PREPARE FOR NEW ADDITION TIE-IN.
13. REMOVE EXISTING EXTERIOR FACADE AND PLANTER SYSTEM DOWN TO MAIN STRUCTURE. SELECTIVELY REMOVE STRUCTURE. PREPARE FOR NEW CONSTRUCTION.
14. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AND FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES.
15. FLOOR PENETRATIONS FOR FUTURE SHAFT, COORDINATE EXACT LOCATION WITH MEP.
16. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AN FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES. PREPARE FOR FUTURE EXTERIOR CONSTRUCTION.
17. REMOVE ROOF AND SELECTIVE STRUCTURE (RE: STRUCTURAL DEMOLITION DRAWINGS) AND PREPARE FOR EXTERIORMECHANICAL EQUIPMENT YARD.
18. REMOVE EXISTING ROOF DOWN TO STRUCTURE.
19. REMOVE EXISTING EXTERIOR FACADE AND PARAPET SYSTEM DOWN TO MAIN STRUCTURE. SELECTIVELY REMOVE STRUCTURE. PREPARE FOR NEW CONSTRUCTION.
20. REMOVE EXISTING SOLAR HOT WATER PANELS (COORDINATE WITH MEP) AND PREPARE EXISTING STRUCTURE TO RECEIVE NEW SOLAR PANELS.
21. REMOVE EXISTING TRANSLUCENT PANEL SYSTEM AND ALL ASSOCIATED STRUCTURE.
22. EXISTING SHAFT WITH ELECTRICAL DATA CONDUITS TO REMAIN IN PLACE.

GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3AD100

Schematic Design

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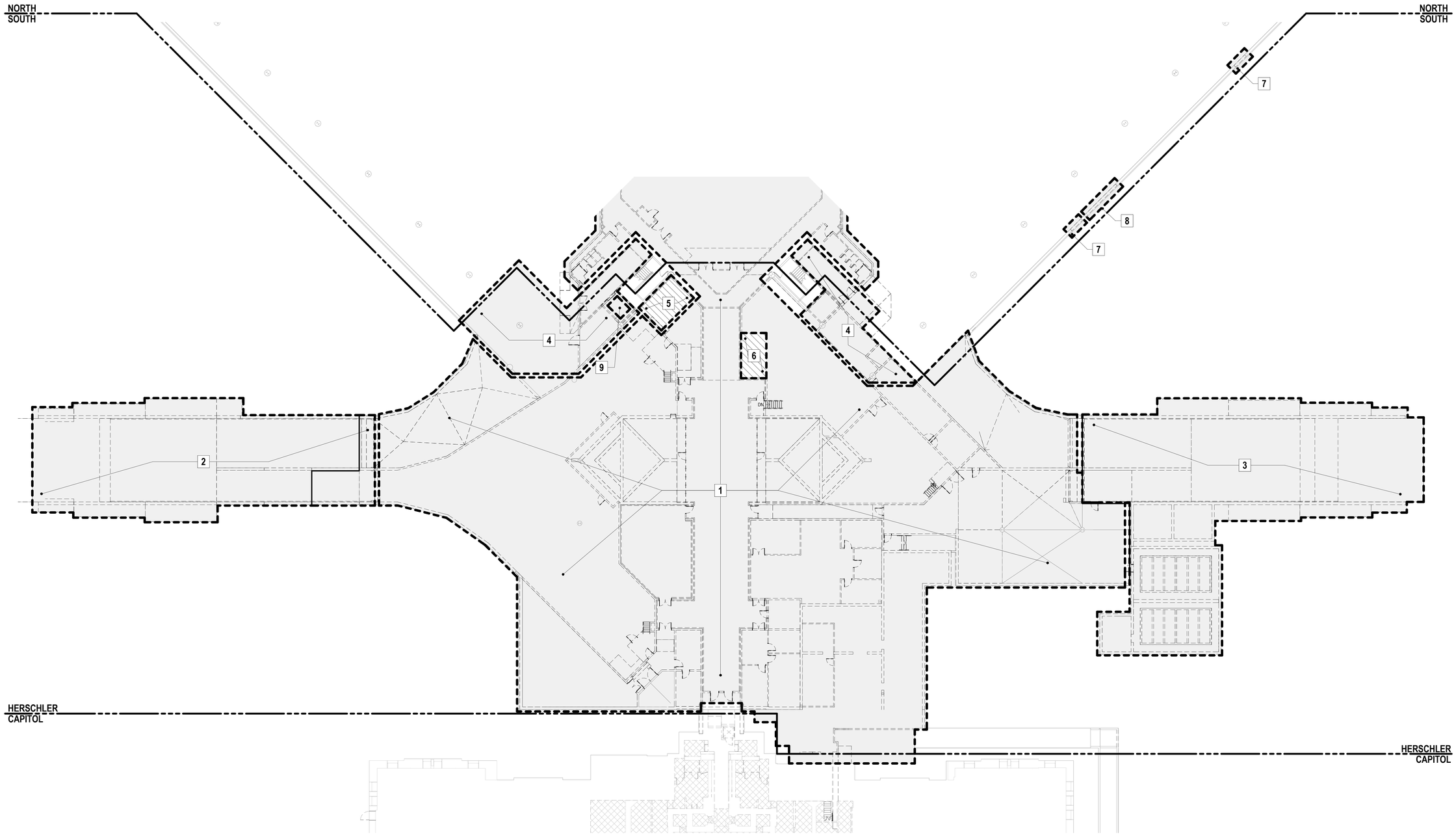

2B OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH

1/16" = 1'-0"

12'-0" 4'-0"

16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DASHED BOLD LINES INDICATE THE APPROXIMATE EXTENT OF DEMOLITION.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS.
3. ALL LIGHT OR HALFTONE LINES INDICATE EXISTING TO REMAIN.
4. SEE SPECIFICATIONS SECTION 01044, CUTTING AND PATCHING, AND SECTION 02050, DEMOLITION.
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CONSTRUCTION NOTES

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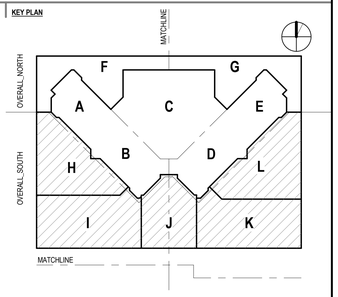
22. EXISTING SHAFT WITH ELECTRICAL DATA CONDUITS TO REMAIN IN PLACE.

GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE

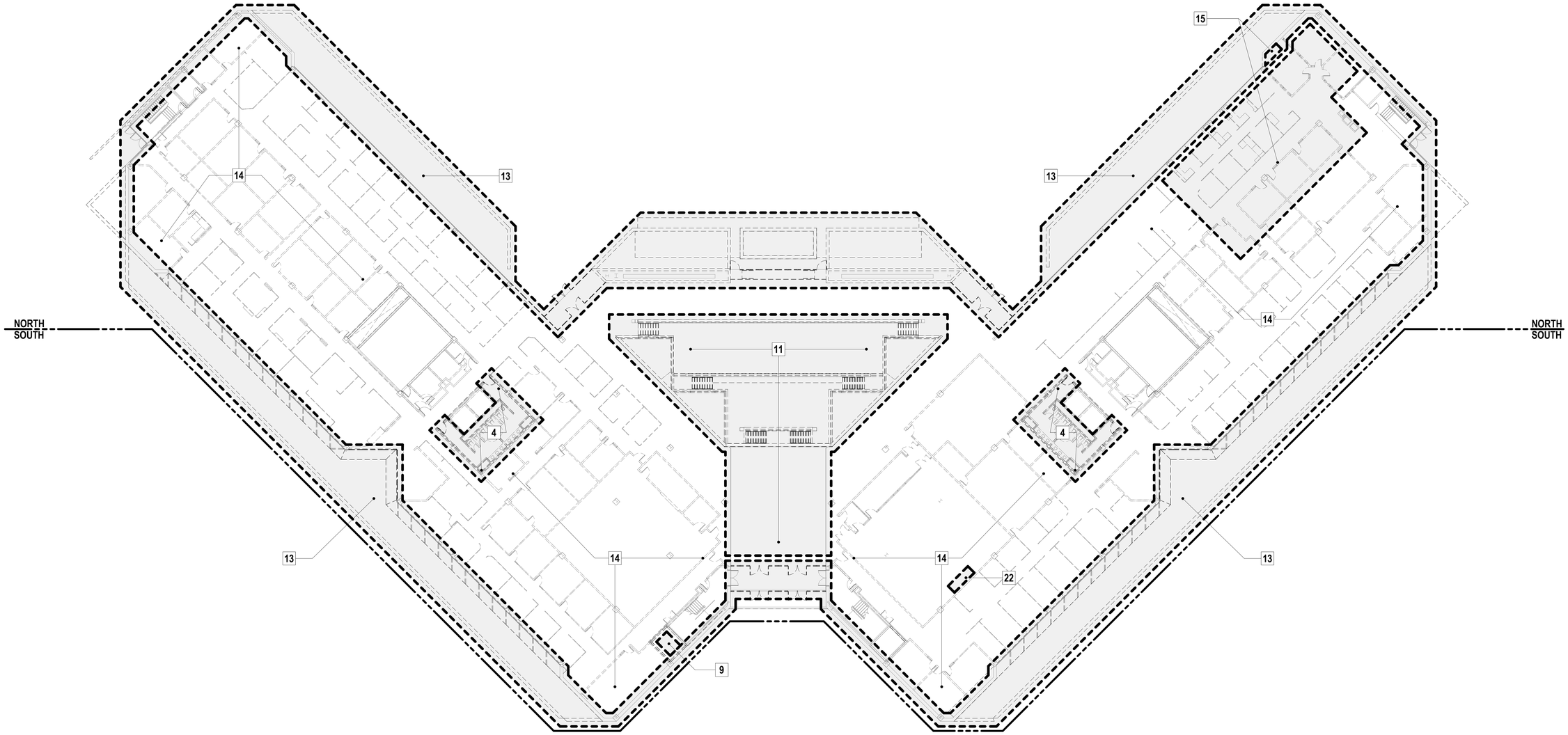
PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3AD101

Schematic Design



2B OVERALL DEMOLITION PLAN - LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY
1. DASHED COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW OF DEMOALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE
2. CONTRASCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CONDITIOCLARIFICATION IF INCONSISTENCIES, CONTRADICTIOOR
3. ALL LIGHOMISSIONS ARE DISCOVERED IN EXISTING TO REMOVE EXISTING PLAN CONFIGURATION & BUILDING INFORMATION
4. SEE SPECHAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO PATCHINREFLECT CURRENT CONDITIONS. CONTRACTOR TO
5. SEE ROCCONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING ELECTRIWORK. NOTIFY ARCHITECT IINCONSISTENCIES, CONSTRICONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
6. SEE PLAOO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATIOIS FLOORINREQUIRED & NOT FOUND. NOTIFY ARCHITECT IMMEDIATELY
7. SEE ROCFOR CLARIFICATION. CHECK EXISTING NEW WALL COVERAGCONTRACTOR TO COORDINATE EXTENT OF DEMOLITION FINISHEWORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR FINISHEPLANS. UNSUPPLASTIC LOUNGING VINYL WALL COVERAGPROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED
8. CONTRAPAIRAREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS FINISHENOTEDOTHERWISE. ALL TAKE INTO ACCOUNT ANY DISCREPCONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH ACCOMPOWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF STRUCTUADJACENT OWNER OCCUPIED SPACES.
ARCHITECONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT
9. COORDIALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN EQUIPMEAPPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE COMPROMISED.
8. HALF-TONED ITEMS INDICATE EXISTING CONSTRUCTION TO BE PROTECTED & REMAIN.
9. BOLD DASHED ITEMS ARE THOSE WHICH ARE TO BE REMOVED.
10. WHERE EXISTING FINISHES ARE TO BE REMOVED, PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
11. UTILITIES THAT REMAIN, WITHIN EXISTING WALLS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION.
12. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATION WITH OWNER.
13. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER OCCUPIED SPACES.
14. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
15. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS. COORDINATE MEANS, METHODS & ROUTES AND INFECTION CONTROL PROTOCOLS WITH THE OWNER.
16. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
17. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY. "DISCONNECT, CAP & ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.

CONSTRUCTION NOTES

1. REMOVE ALL EXISTING CONSTRUCTION DOWN TO THE EXISTING MAT SLAB. PREPARE MAT SLAB FOR FUTURE CONSTRUCTION.
2. REMOVE ENTIRE WEST DRIVE.
3. REMOVE ENTIRE EAST DRIVE AND EXISTING COOLING TOWER.
4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
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8. REMOVE PORTIONS OF WALL TO ADD OPENINGS FOR NEW SERVICE ROUTING.
9. REMOVE EXISTING ELEVATOR SHAFT, CAB AND ALL ASSOCIATED EQUIPMENT.
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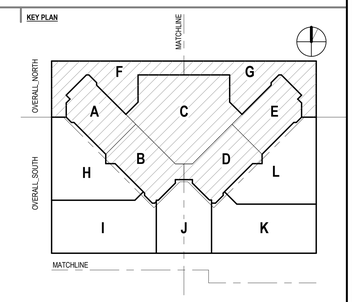
14. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AND FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS; MARKER BOARDS; PEGBOARDS; DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES.
15. FLOOR PENETRATIONS FOR FUTURE SHAFT, COORDINATE EXACT LOCATION WITH MEP.
16. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AN FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS; MARKER BOARDS; PEGBOARDS; DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES. PREPARE FOR FUTURE EXTERIOR CONSTRUCTION.
17. REMOVE ROOF AND SELECTIVE STRUCTURE (RE: STRUCTURAL DEMOLITION DRAWINGS) AND PREPARE FOR EXTERORMECHANICAL EQUIPMENT YARD.
18. REMOVE EXISTING ROOF DOWN TO STRUCTURE.
19. REMOVE EXISTING EXTERIOR FACADE AND PARAPET SYSTEM DOWN TO MAIN STRUCTURE. SELECTIVELY REMOVE STRUCTURE. PREPARE FOR NEW CONSTRUCTION.
20. REMOVE EXISTING SOLAR HOT WATER PANELS (COORDINATE WITH MEP) AND PREPARE EXISTING STRUCTURE TO RECEIVE NEW SOLAR PANELS.
21. REMOVE EXISTING TRANSLUCENT PANEL SYSTEM AND ALL ASSOCIATED STRUCTURE.
22. EXISTING SHAFT WITH ELECTRICAL DATA CONDUITS TO REMAIN IN PLACE.

GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - LEVEL 1 - NORTH

SCALE As indicated

3AD110

Schematic Design

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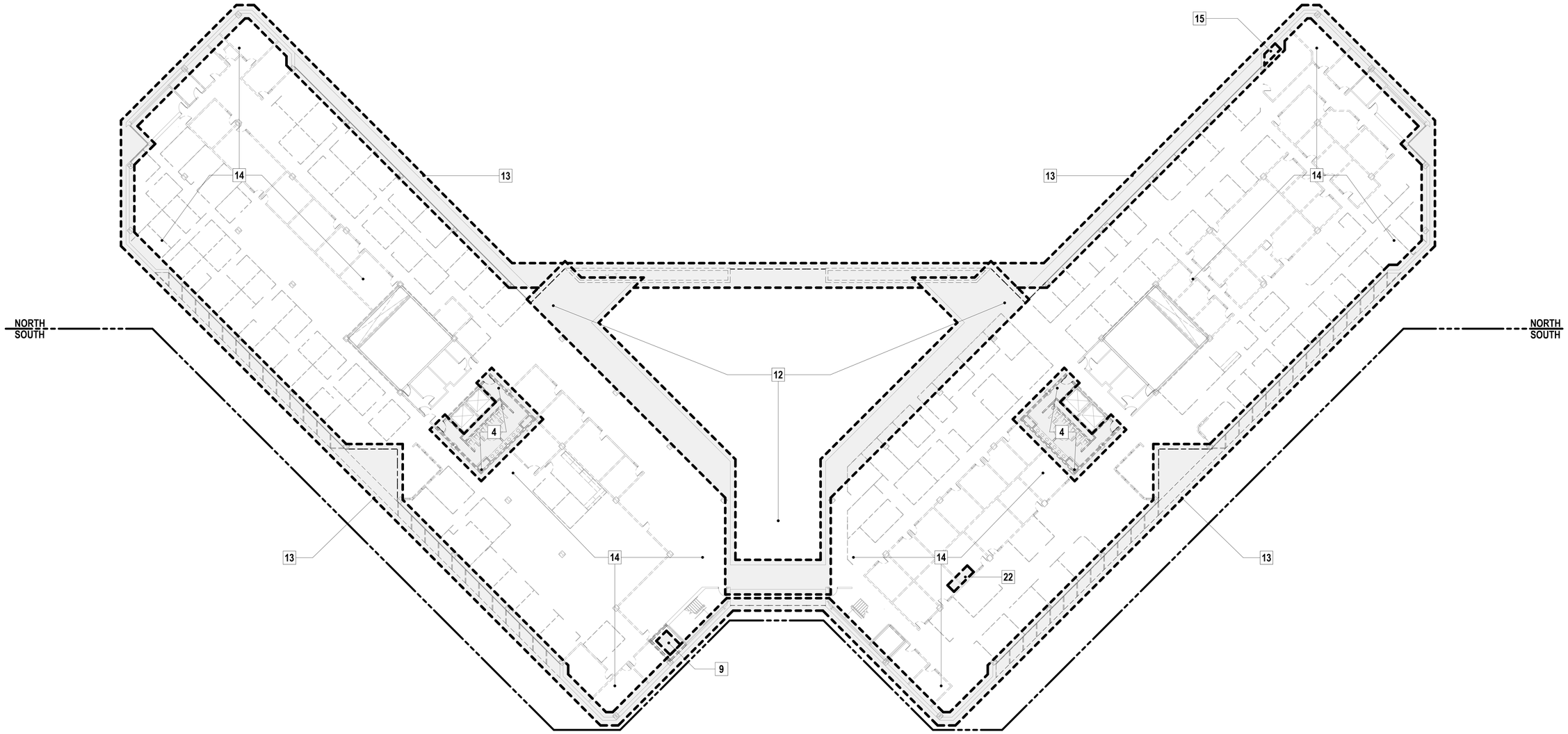

2B OVERALL DEMOLITION PLAN - LEVEL 2 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY
2. DASHED COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW OF DEMOLITION ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CONDITIONS CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
3. ALL LIGHT EXISTING TO REMAIN & EXISTING PLAN CONFIGURATION & BUILDING INFORMATION
4. SEE SPECIFICATIONS HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO BE ACCURATE REFLECT 'CURRENT' CONDITIONS. CONTRACTOR TO
5. SEE ROOF PLAN CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING ELECTRICAL WORK. NOTIFY ARCHITECT IMMEDIATELY INCONSISTENCIES, CONSTRUCTION CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
6. SEE FLOOR PLAN DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATIOIS FLOORING REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY
7. SEE ROOF PLAN FOR CLARIFICATION, FOR EXTENT OF NEW WALL COVERING CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION FINISHES WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR FINISHES PLANS, UNLESS PLASTIC COATING, VINYL WALL COVERING PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED
8. CONTRACTOR AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS FINISHES NOTED OTHERWISE. AL TAKE INTO ACCOUNT ANY DISCREPANCIES CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH ACCOMPANYING OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF STRUCTURE ADJACENT OWNER OCCUPIED SPACES.
9. ARCHITECT CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT COOKLIGHT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN EQUIPMENT APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE COMPROMISED.
8. HALF-TONED ITEMS INDICATE EXISTING CONSTRUCTION TO BE PROTECTED & REMAIN.
9. BOLD DASHED ITEMS ARE THOSE WHICH ARE TO BE REMOVED.
10. WHERE EXISTING FINISHES ARE TO BE REMOVED, PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
11. UTILITIES THAT REMAIN, WITHIN EXISTING WALLS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEWPLAN CONFIGURATION.
12. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATION WITH OWNER.
13. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER OCCUPIED SPACES.
14. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
15. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS & ROUTES AND INFECTION CONTROL PROTOCOLS WITH THE OWNER.
16. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
17. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY, "DISCONNECT, CAP & ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.

CONSTRUCTION NOTES

1. REMOVE ALL EXISTING CONSTRUCTION DOWN TO THE EXISTING MAT SLAB. PREPARE MAT SLAB FOR FUTURE CONSTRUCTION.
2. REMOVE ENTIRE WEST DRIVE.
3. REMOVE ENTIRE EAST DRIVE AND EXISTING COOLING TOWER.
4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
5. EXISTING SEWAGE EJECTOR PITS TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
6. EXISTING DEWATERING SYSTEM TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
7. REMOVE PORTIONS OF WALL TO ADD NEW DOOR.
8. REMOVE PORTIONS OF WALL TO ADD OPENINGS FOR NEW SERVICE ROUTING.
9. REMOVE EXISTING ELEVATOR SHAFT, CAB AND ALL ASSOCIATED EQUIPMENT.
10. PARTIALLY CUT EXISTING MAT SLAB FOR NEW ELEVATOR PITS.
11. REMOVE EXISTING TERRACE STRUCTURE AND ALL ASSOCIATED CONSTRUCTION. PREPARE FOR NEW LEVEL 1 FLOOR SLAB.
12. REMOVE CANTILEVERED PORTION OF EXISTING FLOOR SLAB AND PEDESTRIAN BRIDGE (AND ALL ASSOCIATED CONSTRUCTION) BACK TO MAIN STRUCTURAL GRID. PREPARE FOR NEW ADDITION TIE-IN.
13. REMOVE EXISTING EXTERIOR FACADE AND PLANTER SYSTEM DOWN TO MAIN STRUCTURE. SELECTIVELY REMOVE STRUCTURE. PREPARE FOR NEW CONSTRUCTION.
14. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC., DOORS AND FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES.
15. FLOOR PENETRATIONS FOR FUTURE SHAFT, COORDINATE EXACT LOCATION WITH MEP.
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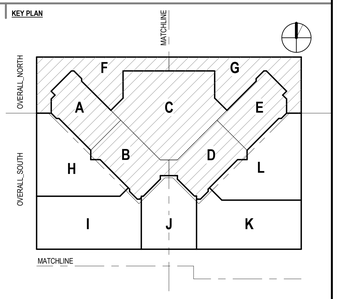
22. EXISTING SHAFT WITH ELECTRICAL DATA CONDUITS TO REMAIN IN PLACE.

GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE 06/05/14 -

PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - LEVEL 2 - NORTH

SCALE As indicated

3AD120

Schematic Design

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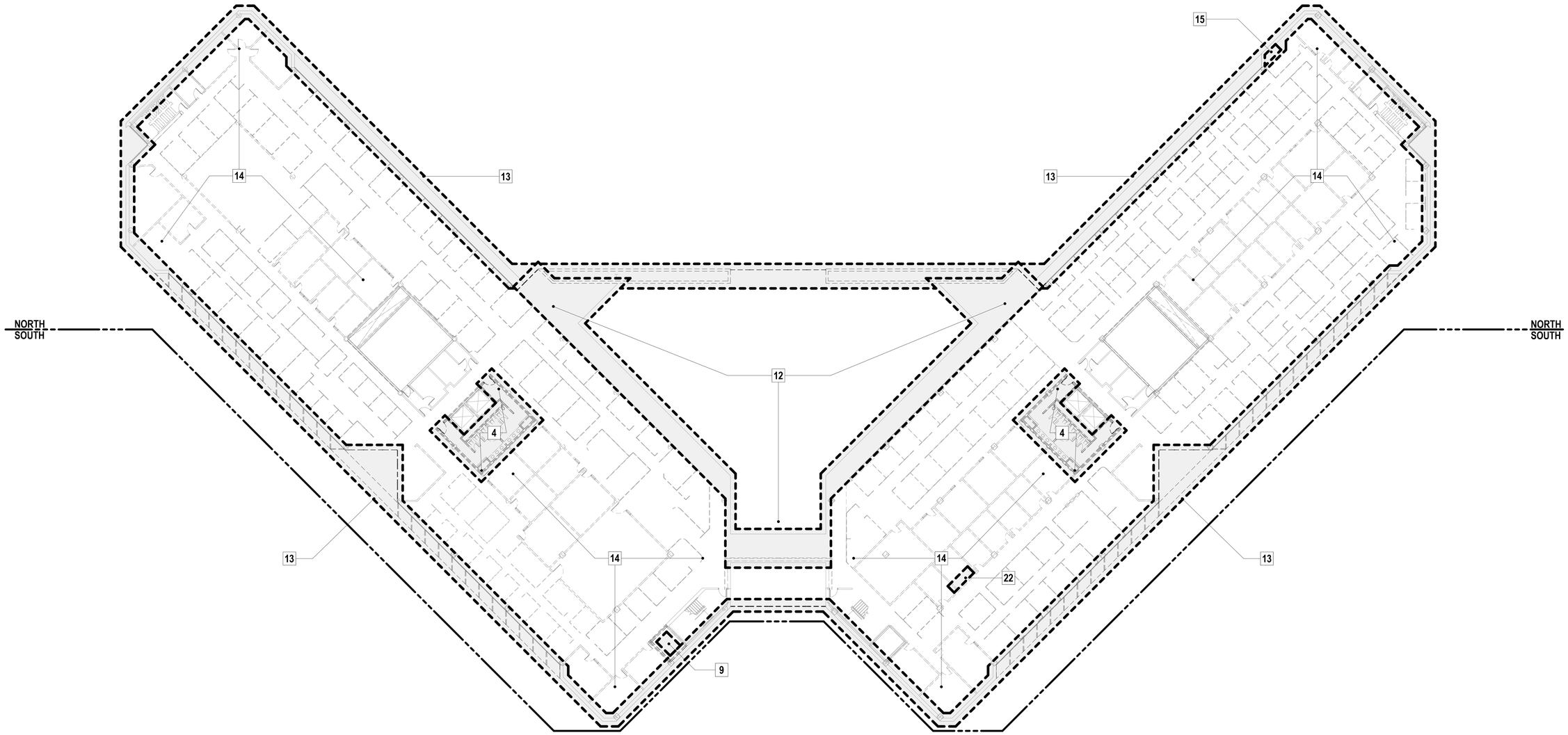

2B OVERALL DEMOLITION PLAN - LEVEL 3 - NORTH

1/16" = 1'-0"

GENERAL NOTES

1. DASHED DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW OF DEMOALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE
2. CONTRASCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CONDITIOCLARIFICATION IF INCONSISTENCIES, CONTRADICTIOOR
3. ALL LIGHOMISSIONS ARE DISCOVERED. REFER TO EXISTING FLO REMOVAL & EXISTING PLAN CONFIGURATION & BUILDING INFORMATION
4. SEE SHHAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO PATCHINREFLECT CURRENT CONDITIONS. CONTRACTOR TO
5. SEE ROCONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING ELECTRWORK. NOTIFY ARCHITECT IINCONSISTENCIES, CONSTRCONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
6. SEE FLDO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATIOIS FLOORINREQUIRED & NOT FOUND. NOTIFY ARCHITECT IMMEDIATELY
7. SEE ROFOR CLARIFICATION. FOR EXTENT OF NEW WALL COVEL PCONTRACTOR TO COORDINATE EXTENT OF DEMOLITION FINISHESWORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR FINISHEPLANS. UPED PLASTIC LUMINING VINYL WALL COVS. PPROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED
8. CONTRAAREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS FINISHESNOTED OTHERWISE. AL. TAKE INTO ACCOUNT ANY DISCB.CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH ACCOMPOWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF STRUCTUADJACENT OWNER OCCUPIED SPACES.
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CONSTRUCTION NOTES

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2. REMOVE ENTIRE WEST DRIVE.
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4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
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14. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AND FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES, TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES.
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20. REMOVE EXISTING SOLAR HOT WATER PANELS (COORDINATE WITH MEP) AND PREPARE EXISTING STRUCTURE TO RECEIVE NEW SOLAR PANELS.
21. REMOVE EXISTING TRANSLUCENT PANEL SYSTEM AND ALL ASSOCIATED STRUCTURE.
22. EXISTING SHAFT WITH ELECTRICAL DATA CONDUITS TO REMAIN IN PLACE.

GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
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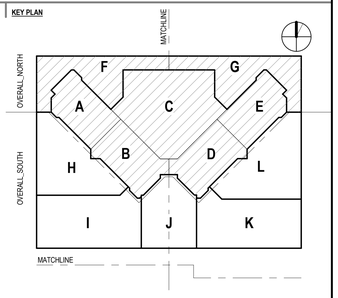
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	06/05/14 -
PKG. IDENTIFIER	3

OVERALL DEMOLITION PLAN - LEVEL 3 - NORTH

SCALE As indicated

3AD130

Schematic Design

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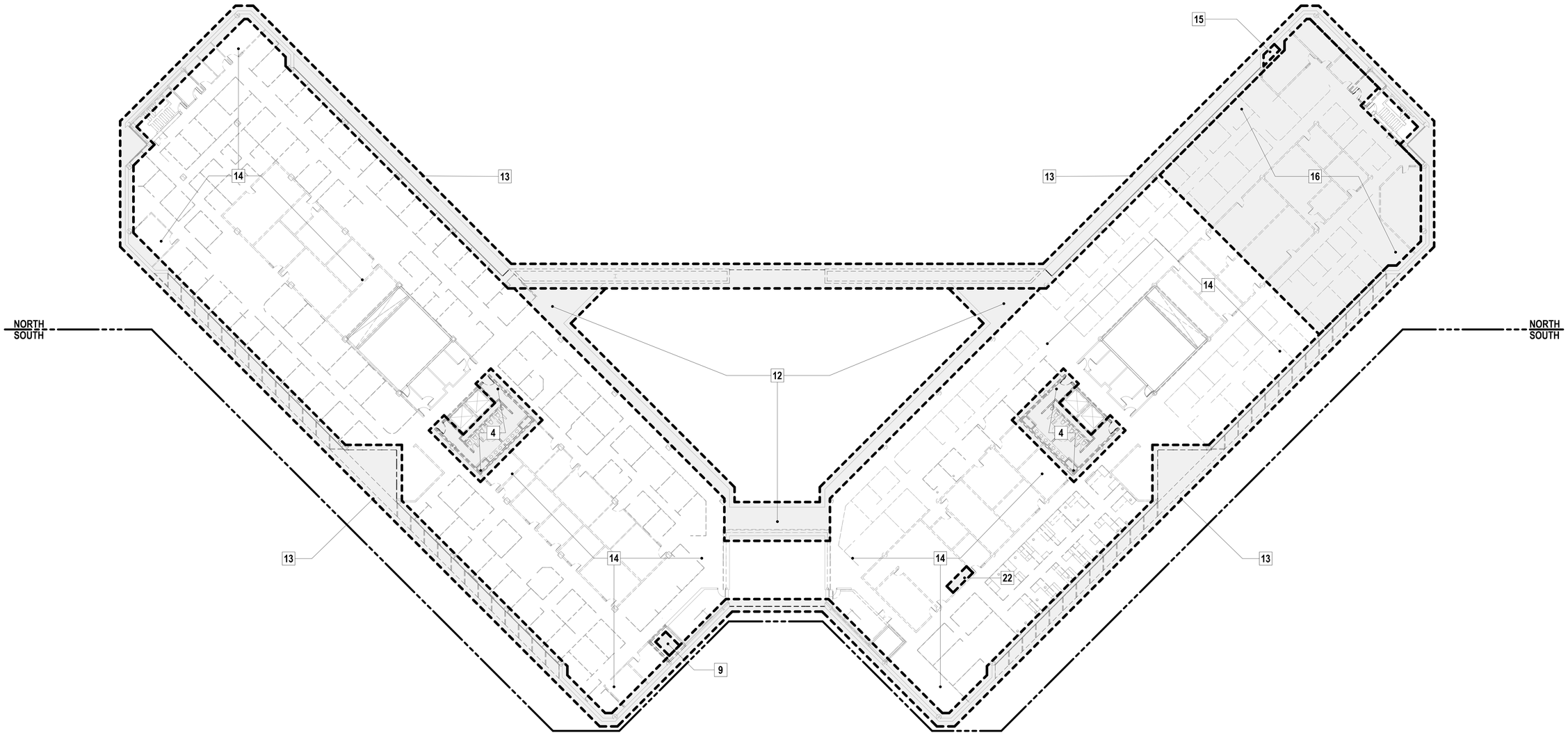

2B OVERALL DEMOLITION PLAN - LEVEL 4 - NORTH

1/16" = 1'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY
1. DASHED COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW OF DEMOALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE
2. CONTRAGSCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CONDITIOCLARIFICATION IF INCONSISTENCES, CONTRADICTIOOR
3. ALL UGPOMISSIONS ARE DISCOVERED IN EXISTING TO REMOVAL EXISTING PLAN CONFIGURATION & BUILDING INFORMATION
4. SEE SPEHAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO PATCHINREFLECT CURRENT CONDITIONS. CONTRACTOR TO
5. SEE ROCONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING ELECTRIWORK. NOTIFY ARCHITECT IINCONSISTENCIES, CONSTRICONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
6. SEE PLXDO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATIOIS FLOORINREQUIRED & NOT FOUND. NOTIFY ARCHITECT IMMEDIATELY
7. SEE ROFOR CLARIFICATION FOR EXISTING TO NEW WALL COVE& PCONTRACTOR TO COORDINATE EXTENT OF DEMOLITION FINISHEWORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR FINISHEPLANS. UNSUPLASHING/LOATHING VINYL WALL COVE& PPROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED
8. CONTRAAREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS FINISHESNOTEDOTHERWISE.ALL TAKE INTO ACCOUNT ANY DISCIPCONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH ACCOMPOWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF STRUCTADJACENT OWNER OCCUPIED SPACES.
9. COOKOUTCONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN EQUIPMEAPPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE COMPROMISED.
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CONSTRUCTION NOTES

1. REMOVE ALL EXISTING CONSTRUCTION DOWN TO THE EXISTING MAT SLAB. PREPARE MAT SLAB FOR FUTURE CONSTRUCTION.
2. REMOVE ENTIRE WEST DRIVE.
3. REMOVE ENTIRE EAST DRIVE AND EXISTING COOLING TOWER.
4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
5. EXISTING SEWAGE EJECTOR PITS TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
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10. PARTIALLY CUT EXISTING MAT SLAB FOR NEW ELEVATOR PITS.
11. REMOVE EXISTING TERRACE STRUCTURE AND ALL ASSOCIATED CONSTRUCTION. PREPARE FOR NEW LEVEL 1 FLOOR SLAB.
12. REMOVE CANTILEVERED PORTION OF EXISTING FLOOR SLAB AND PEDESTRIAN BRIDGE (AND ALL ASSOCIATED CONSTRUCTION) BACK TO MAIN STRUCTURAL GRID. PREPARE FOR NEW ADDITION TIE-IN.
13. REMOVE EXISTING EXTERIOR FACADE AND PLANTER SYSTEM DOWN TO MAIN STRUCTURE. SELECTIVELY REMOVE STRUCTURE. PREPARE FOR NEW CONSTRUCTION.
14. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS AND FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES.
15. FLOOR PENETRATIONS FOR FUTURE SHAFT, COORDINATE EXACT LOCATION WITH MEP.
16. REMOVE THE FOLLOWING: INTERIOR PARTITIONS (REMOVED TO STRUCTURE); CEILINGS, INCLUDING CEILING SUSPENSION SYSTEM, MISC. STEEL SUPPORTS FOR SUSPENDED EQUIPMENT, SUSPENDED EQUIPMENT, LIGHT FIXTURES, DIFFUSERS AND GRILLES, ETC.; FLOOR FINISHES (TO CONCRETE) INCLUDING CARPET, VCT, SHEET VINYL, CERAMIC TILE, QUARRY TILE, BRICK PAVERS, ETC.; DOORS ANI FRAMES UNLESS NOTED OTHERWISE; BRICK AND BACK-UP WALL SYSTEM; CABINETWORK, SHELVING, BASES; TOILET PARTITIONS AND ACCESSORIES; TACK BOARDS, MARKER BOARDS, PEGBOARDS, DISPLAY BOARDS; EQUIPMENT ITEMS; PLUMBING FIXTURES. PREPARE FOR FUTURE EXTERIOR CONSTRUCTION.
17. REMOVE ROOF AND SELECTIVE STRUCTURE (RE: STRUCTURAL DEMOLITION DRAWINGS) AND PREPARE FOR EXTERORMECHANICAL EQUIPMENT YARD.
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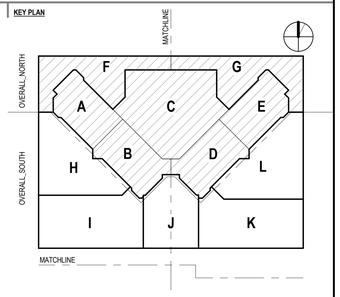
GRAPHIC LEGEND

- EXISTING
- DEMOLISHED
- NEW
- TEMPORARY
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE 06/05/14 -

PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - LEVEL 4 - NORTH

SCALE As indicated

3AD140

Schematic Design

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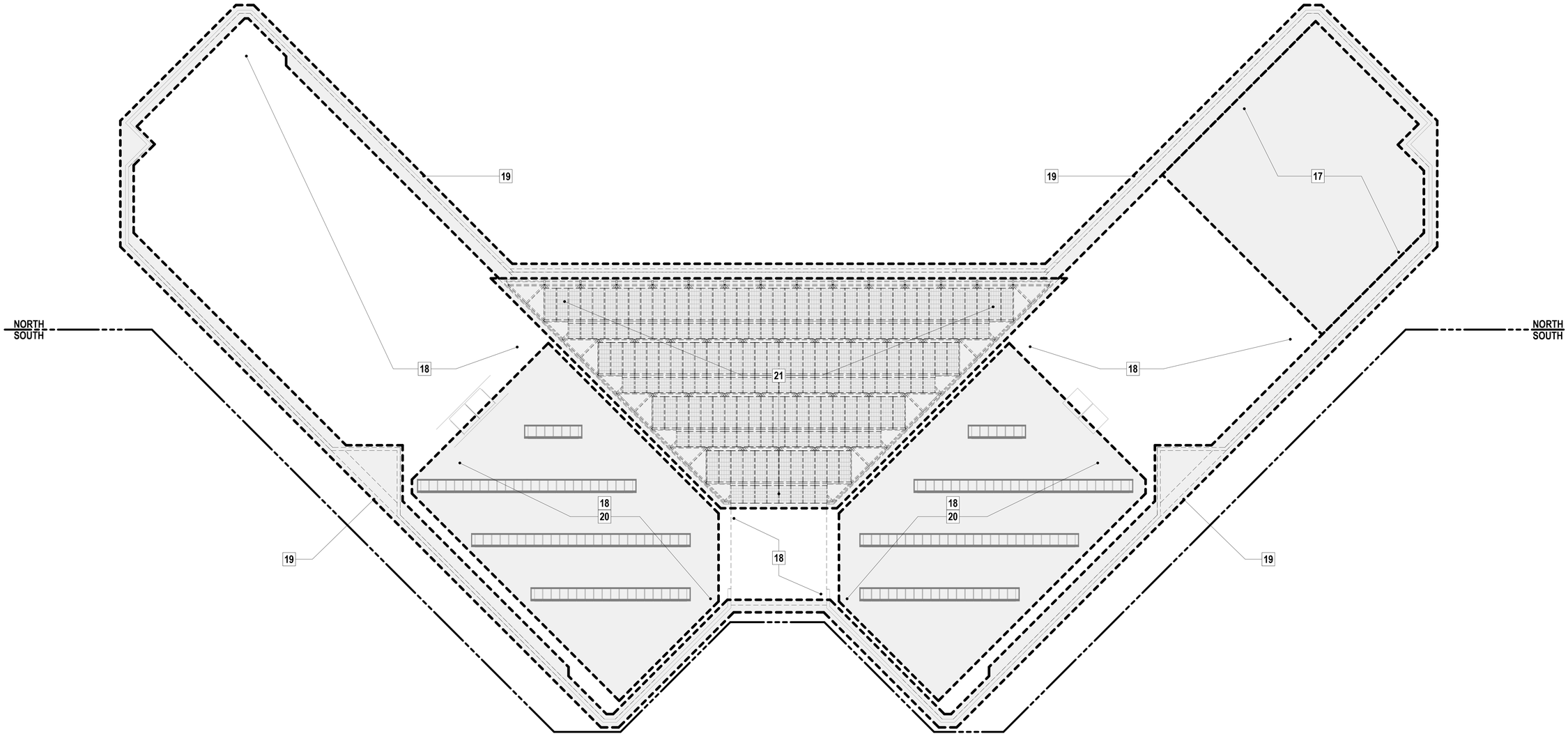

2B OVERALL DEMOLITION PLAN - ROOF - NORTH
1/16" = 1'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY
2. ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
3. EXISTING PLAN CONFIGURATION & BUILDING INFORMATION HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO REFLECT "CURRENT" CONDITIONS. CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
4. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATIOIS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY
5. FOR CLARIFICATION, FOR EXTENT OF NEW WALL COVERAGE, CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON PROPOSED FLOOR PLANS. UNLESS PLASTIC COATING, VINYL WALL COVERING
6. PROTECT ALL EXISTING WORK TO REMAIN & REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE. ALL TAKE INTO ACCOUNT ANY DISCREPANCIES
7. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
8. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE COMPROMISED.
9. HALF-TONED ITEMS INDICATE EXISTING CONSTRUCTION TO BE PROTECTED & REMAIN.
10. BOLD DASHED ITEMS ARE THOSE WHICH ARE TO BE REMOVED.
10. WHERE EXISTING FINISHES ARE TO BE REMOVED, PATCH & PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS.
11. UTILITIES THAT REMAIN, WITHIN EXISTING WALLS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEWPLAN CONFIGURATION.
12. LABEL & PACKAGE ALL COMPONENTS OF SALVAGED ITEMS TO BE DELIVERED TO OWNER. COORDINATE LABEL & PACKAGE REQUIREMENTS & STORAGE LOCATION WITH OWNER.
13. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST & NOISE CONTAMINENT BARRIERS BETWEEN THE WORK AREA & THE ADJACENT OWNER OCCUPIED SPACES.
14. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
15. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS & ROUTES AND INFECTION CONTROL PROTOCOLS WITH THE OWNER.
16. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
17. ALL UTILITY SYSTEMS & OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY, "DISCONNECT, CAP & ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.

CONSTRUCTION NOTES

1. REMOVE ALL EXISTING CONSTRUCTION DOWN TO THE EXISTING MAT SLAB. PREPARE MAT SLAB FOR FUTURE CONSTRUCTION.
2. REMOVE ENTIRE WEST DRIVE.
3. REMOVE ENTIRE EAST DRIVE AND EXISTING COOLING TOWER.
4. SELECTIVELY REMOVE WALLS, DOORS, STAIRS, TOPPING SLAB, FINISHES, EQUIPMENT AND ALL ASSOCIATED CONSTRUCTION. PREPARE STRUCTURE FOR FUTURE CONSTRUCTION.
5. EXISTING SEWAGE EJECTOR PITS TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
6. EXISTING DEWATERING SYSTEM TO REMAIN. REFER TO MECHANICAL DEMOLITION FOR FURTHER INFORMATION.
7. REMOVE PORTIONS OF WALL TO ADD NEW DOOR.
8. REMOVE PORTIONS OF WALL TO ADD OPENINGS FOR NEW SERVICE ROUTING.
9. REMOVE EXISTING ELEVATOR SHAFT, CAB AND ALL ASSOCIATED EQUIPMENT.
10. PARTIALLY CUT EXISTING MAT SLAB FOR NEW ELEVATOR PITS.
11. REMOVE EXISTING TERRACE STRUCTURE AND ALL ASSOCIATED CONSTRUCTION. PREPARE FOR NEW LEVEL 1 FLOOR SLAB.
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GRAPHIC LEGEND

- EXISTING
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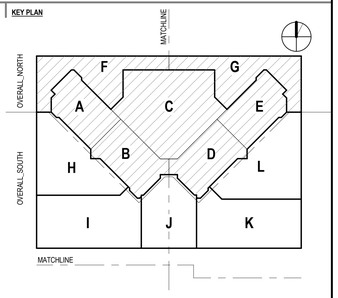
- AREA OF WORK
- AREA TO REMAIN -REFER TO DEMOLITION KEYNOTES

KEY PLAN



State of Wyoming

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Capitol Square
Rehabilitation and Restoration

PRELIMINARY
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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL DEMOLITION PLAN - ROOF - NORTH

SCALE As indicated

3AD150

Schematic Design

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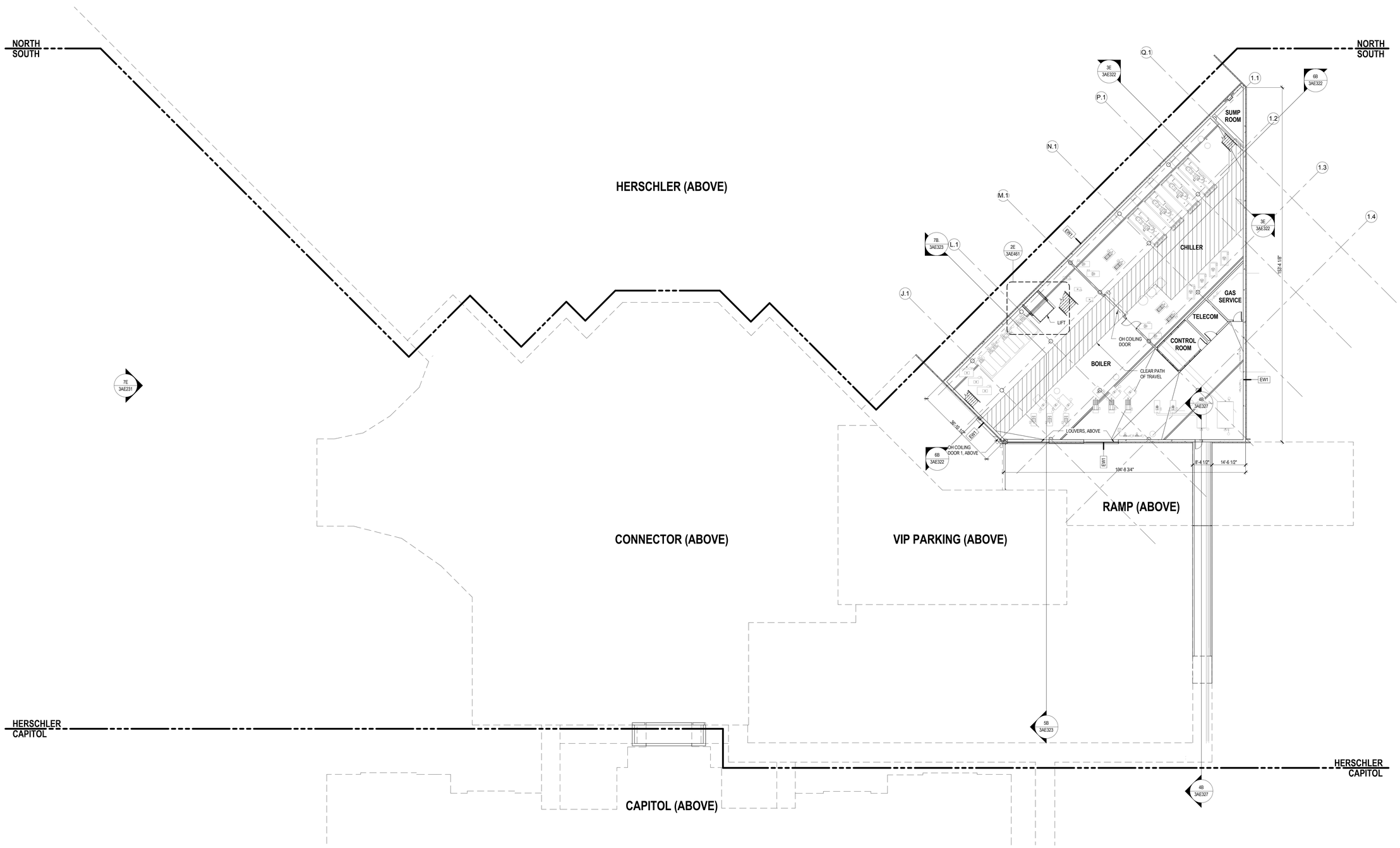
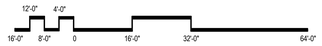


2B OVERALL PLAN - LOWER LEVEL 2 - SOUTH

1/16" = 1'-0"



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5. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
6. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
7. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL EQUIPMENT SPECIFIC INFORMATION.
8. REFER TO INTERIOR FINISH DRAWINGS FOR ADDITIONAL INTERIOR FINISH SPECIFIC INFORMATION.
9. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION.
10. REFER TO MEP DRAWINGS FOR ADDITIONAL MEP SPECIFIC INFORMATION.
11. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A" UNLESS NOTED OTHERWISE.
12. HIGHER RATED FIRE WALLS TAKE PRECEDENCE OVER LOWER RATED WALLS & ARE TO CONTINUE THROUGH ALL SUCH INTERSECTIONS.
13. ALL SMOKE BARRIER WALLS ARE TO EXTENDED FROM BACK SIDE OF EXTERIOR WALL SHEATHING TO BACK SIDE OF EXTERIOR WALL SHEATHING OR ANOTHER SMOKE BARRIER WALL.
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17. REFER TO SHEET 3G001 FOR ACCESSORY DESCRIPTIONS AND MOUNTING HEIGHT INFORMATION.
18. REFER TO SHEET 3IN___ FOR CASE WORK DESIGNATIONS, AND CASE WORK DETAILS.
19. REFER TO SHEET 3IN200 SERIES FOR INTERIOR ELEVATIONS.
20. REFER TO SHEET 3AE610 SERIES FOR TYPICAL PARTITION TYPES AND DETAILS.
21. REFER TO SHEET 3AE___ FOR DOOR SCHEDULES
22. REFER TO SHEET 3AE___ FOR FIRE EXTINGUISSHER CABINET AND FIRE VALVE CABINET DETAILS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
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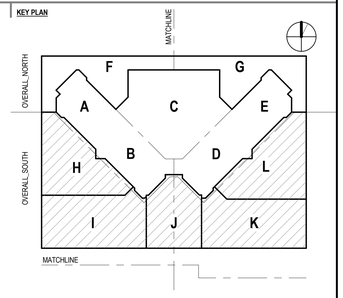
KEY PLAN



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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619

ORIGINAL ISSUE

PKG. IDENTIFIER 3

OVERALL PLAN - LOWER LEVEL 2 - SOUTH

SCALE As indicated

3AE10L

Schematic Design

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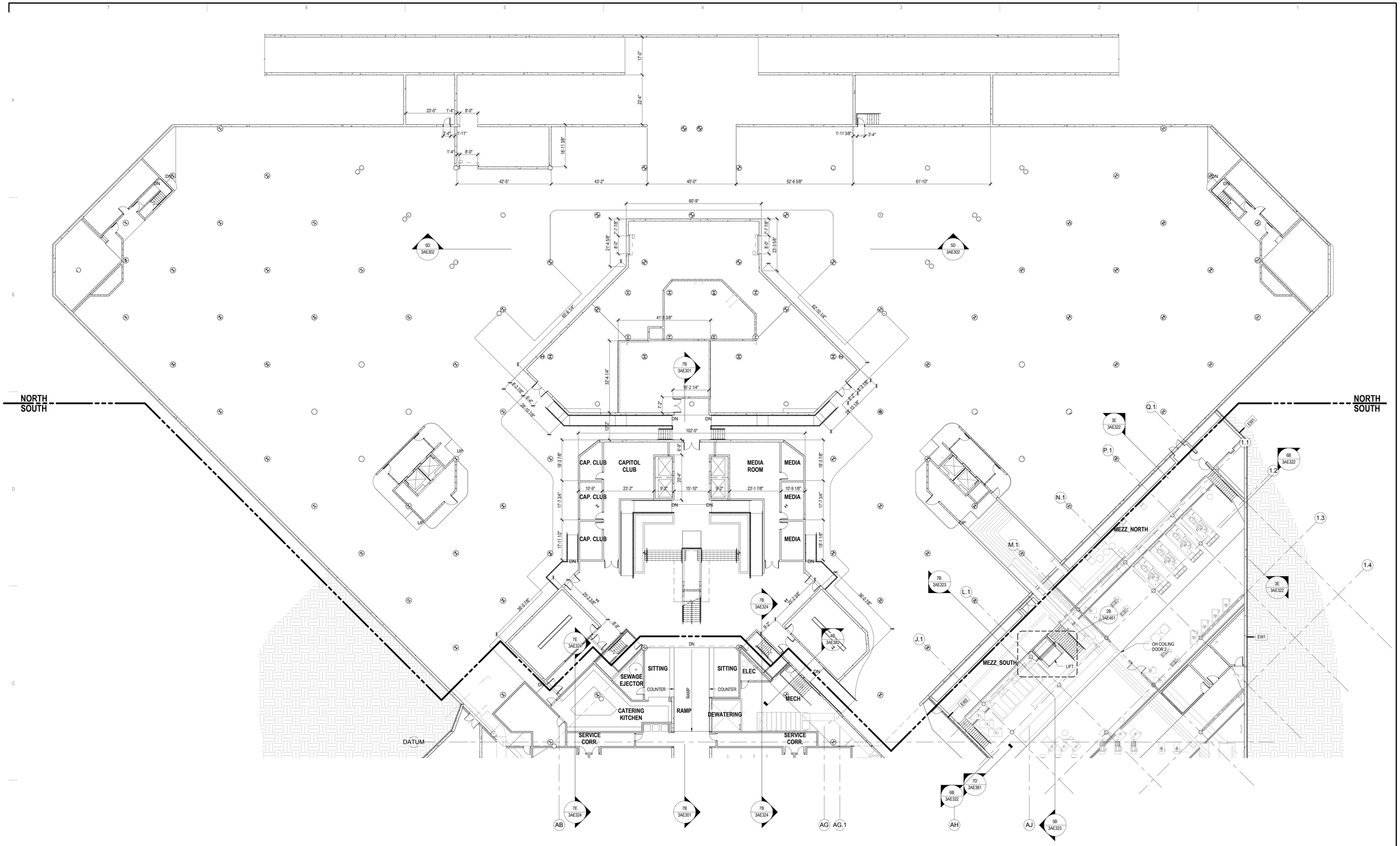
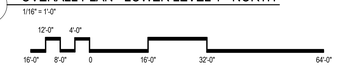


2B OVERALL PLAN - LOWER LEVEL 1 - NORTH
1/16" = 1'-0"



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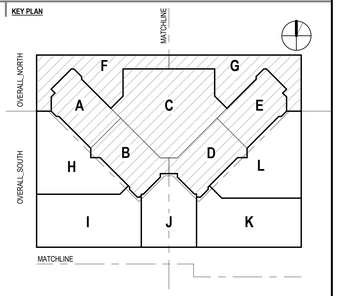
AFS	ALUMINUM FRAMED SKYLIGHT

KEY PLAN



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State of Wyoming

Administration & Information
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Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

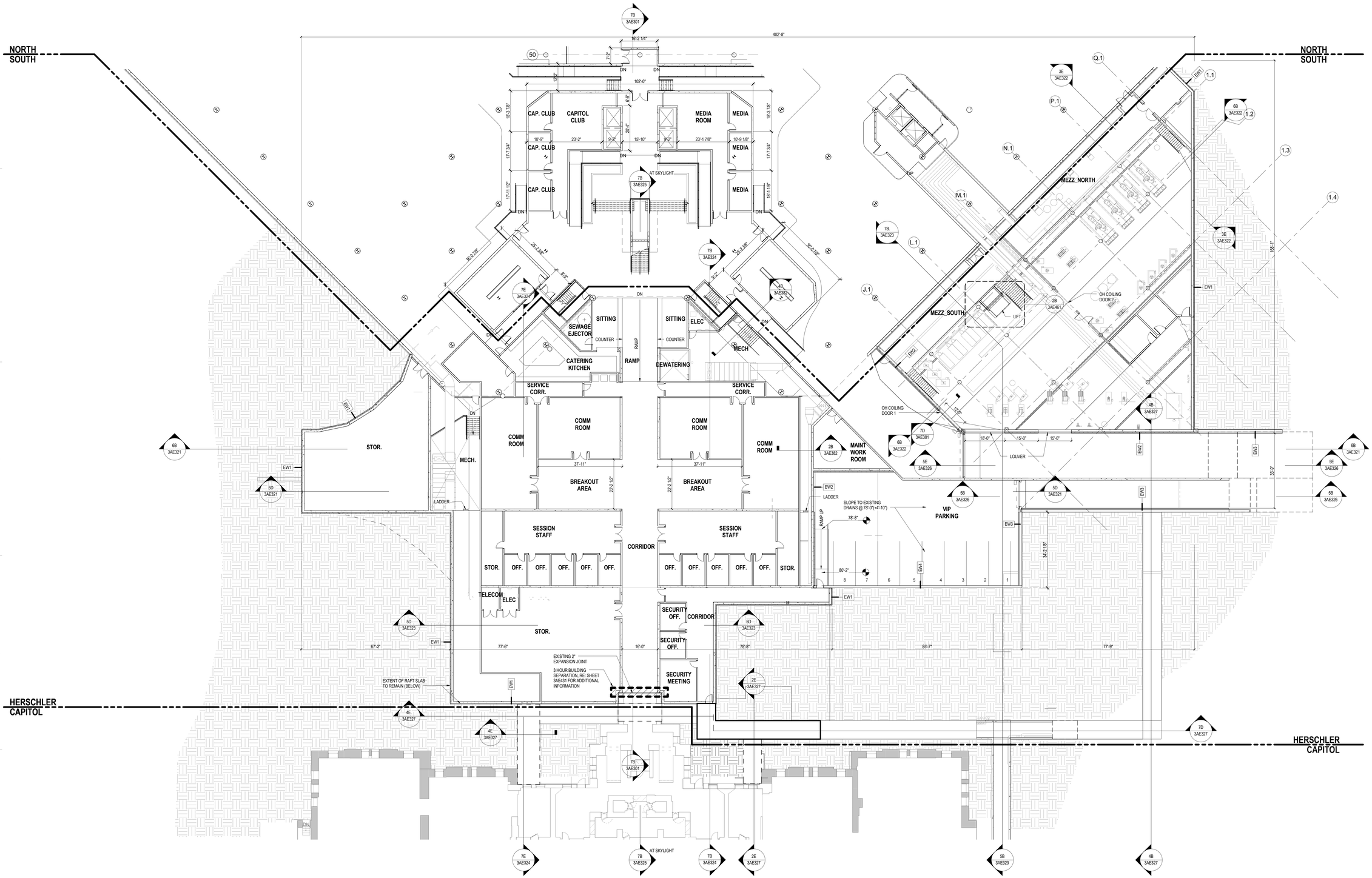
PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - LOWER LEVEL 1 - NORTH

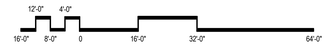
SCALE As indicated

3AE100

Schematic Design



2B OVERALL PLAN - LOWER LEVEL 1 - SOUTH
1/16" = 1'-0"



State of Wyoming

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PKG. IDENTIFIER 3

OVERALL PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3AE101

Schematic Design

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20. REFER TO SHEET 3AE610 SERIES FOR TYPICAL PARTITION TYPES AND DETAILS.
21. REFER TO SHEET 3AE___ FOR DOOR SCHEDULES
22. REFER TO SHEET 3AE___ FOR FIRE EXTINGUISSHER CABINET AND FIRE VALVE CABINET DETAILS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX.WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (RMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (RMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
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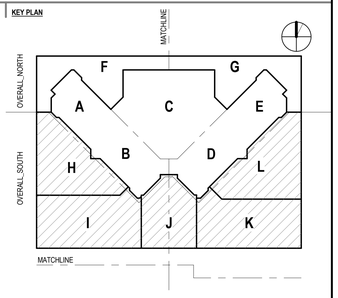
AFS	ALUMINUM FRAMED SKYLIGHT

KEY PLAN



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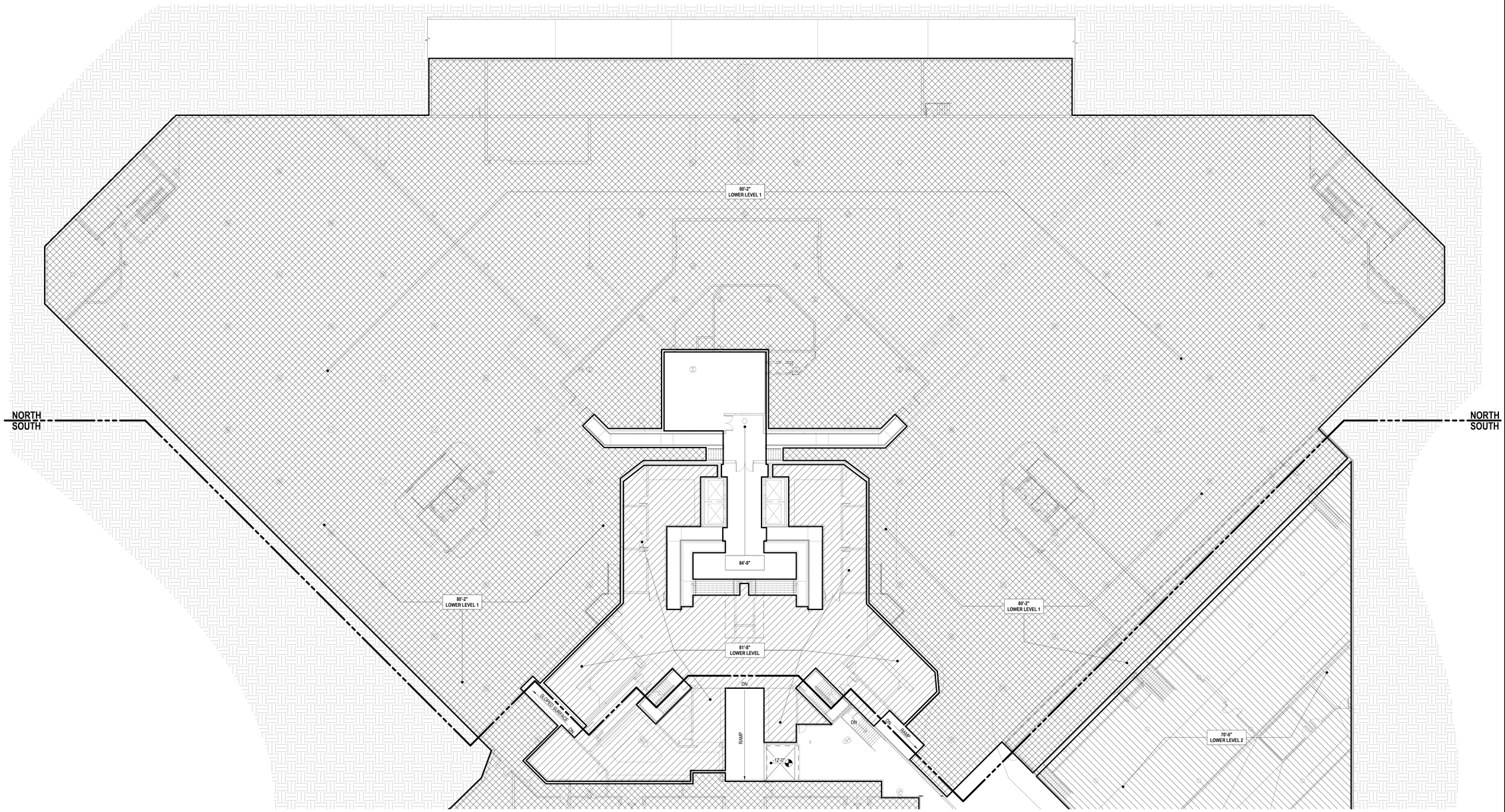


2B OVERALL TOPPING SLAB PLAN - LOWER LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"

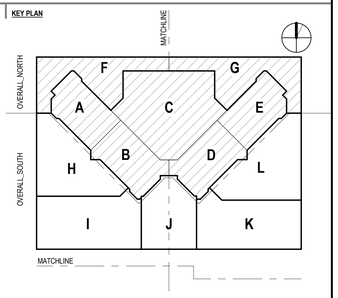
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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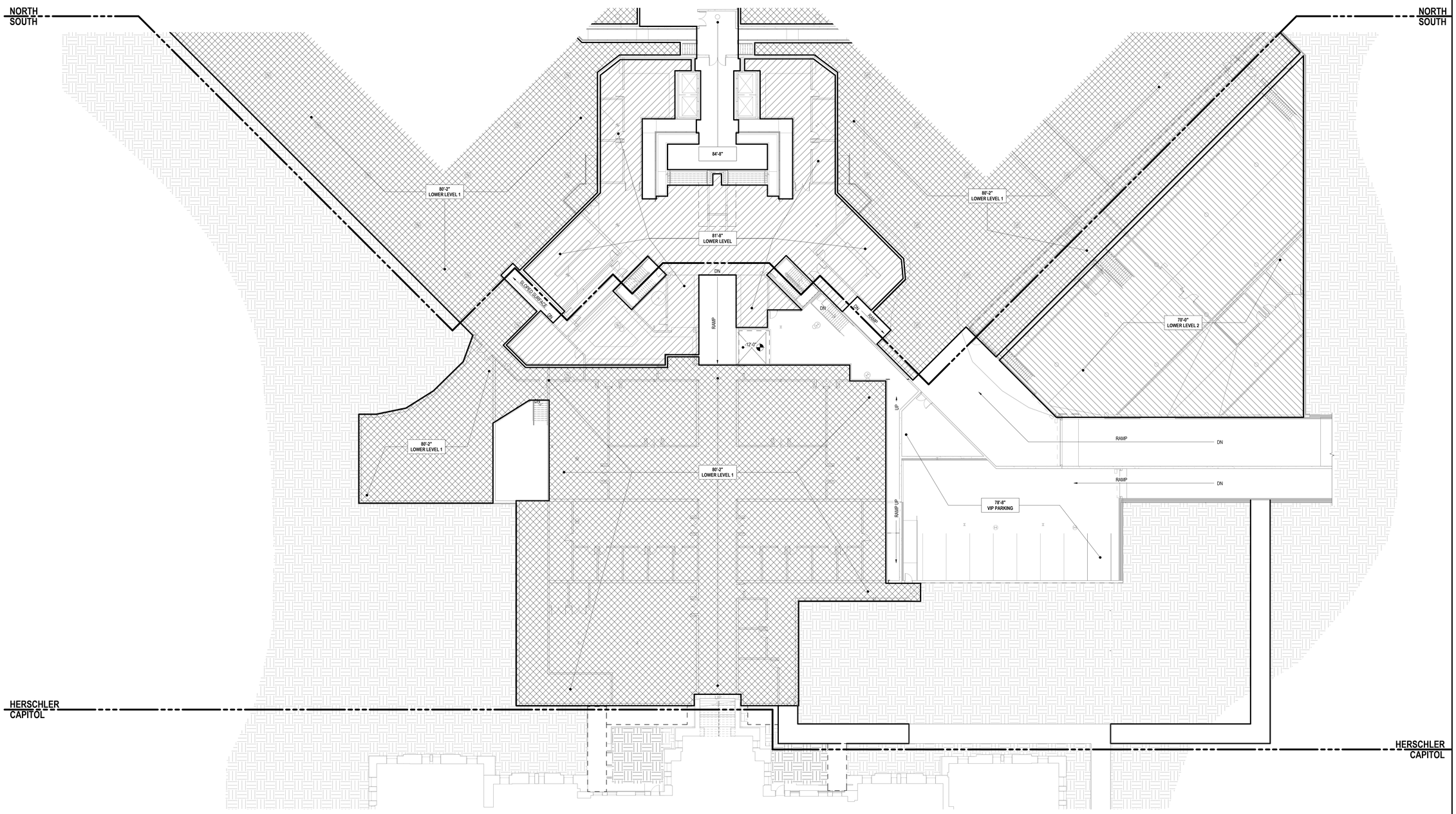
ORIGINAL ISSUE	06/05/14 -
PKG. IDENTIFIER	3

OVERALL TOPPING PLAN - LOWER LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3AE102

Schematic Design



2B OVERALL TOPPING SLAB PLAN - LOWER LEVEL 1 - SOUTH

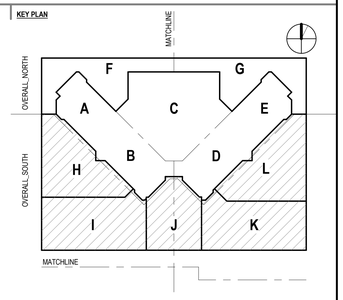
1/16" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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MARK	DATE	DESCRIPTION
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ORIGINAL ISSUE	09/18/14 -
PKG. IDENTIFIER	3

OVERALL TOPPING PLAN - LOWER LEVEL 1 - SOUTH

SCALE 1/16" = 1'-0"

3AE103

Schematic Design

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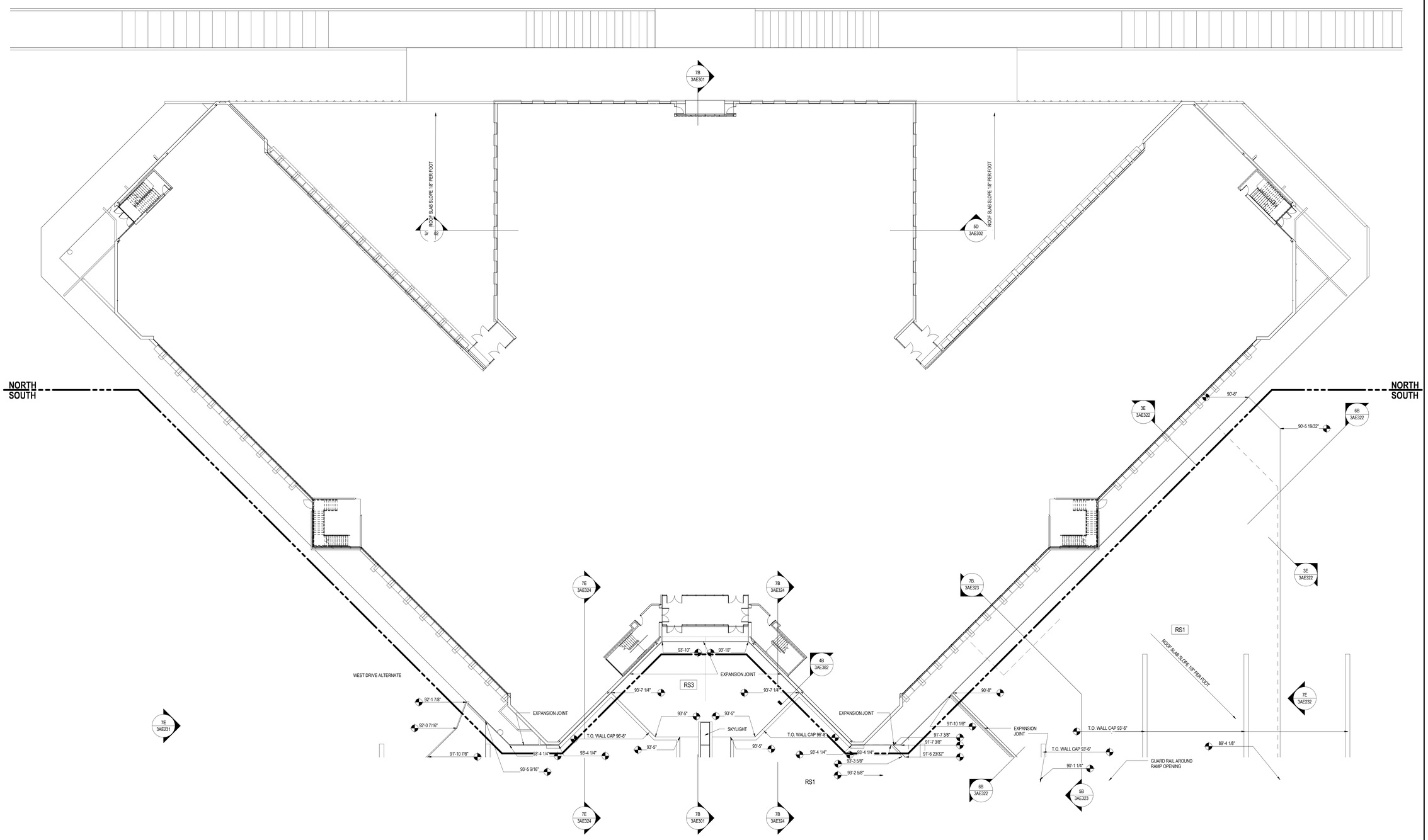

2B OVERALL PLAN - GREEN ROOF - NORTH

1/16" = 1'-0"

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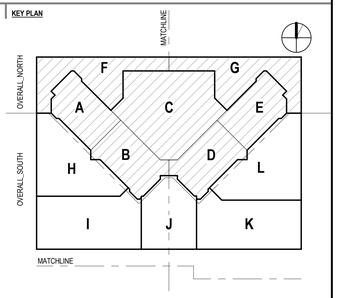

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State of Wyoming

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Rehabilitation and Restoration

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1	10/30/2014	SD OWNER REVIEW

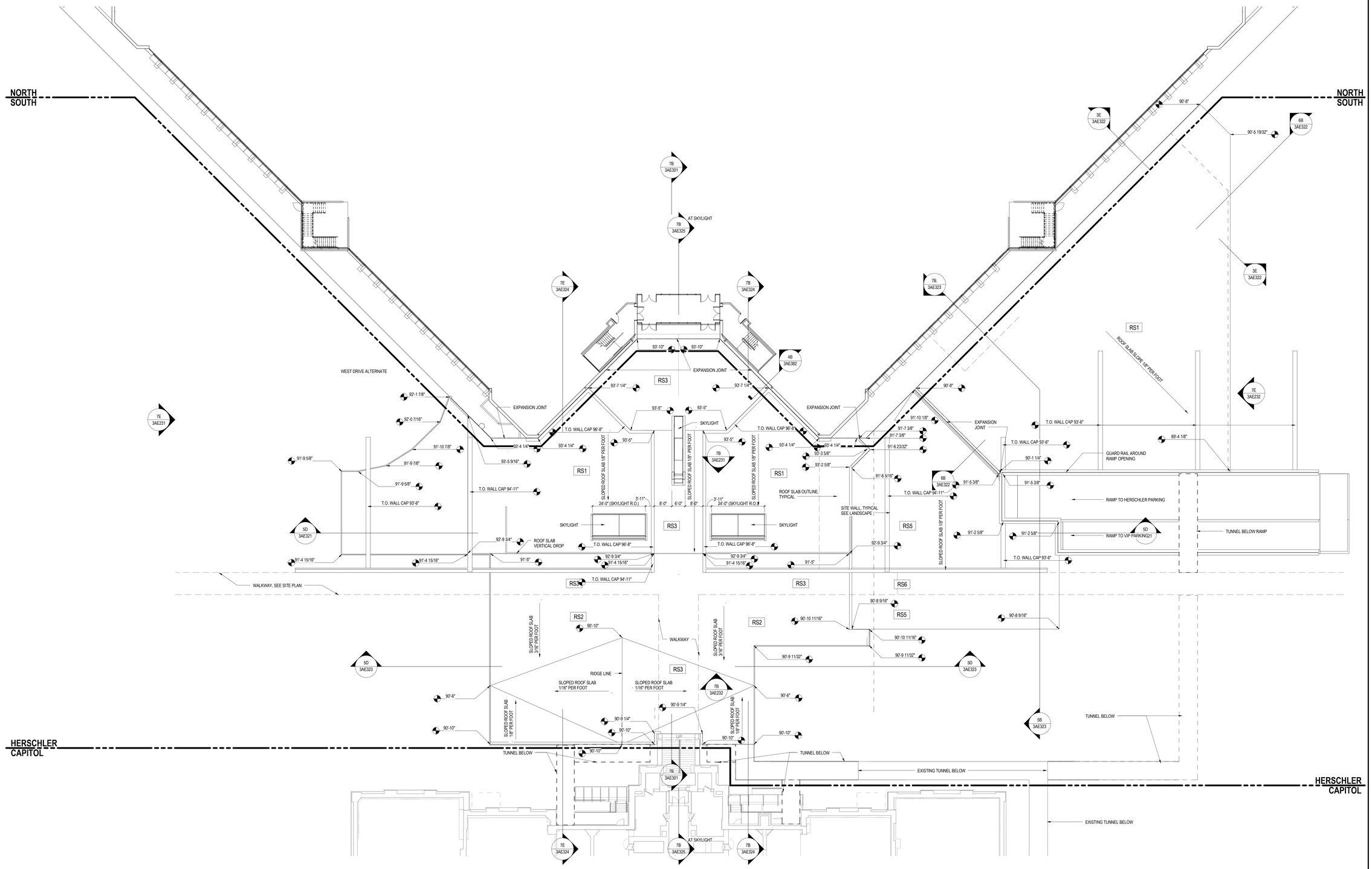
PROJECT NUMBER 203619
ORIGINAL ISSUE 10/14/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - GREEN ROOF - NORTH

SCALE As indicated

3AE104

Schematic Design



2B OVERALL PLAN - GREEN ROOF - SOUTH

1/16" = 1'-0"

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CONSTRUCTION NOTES

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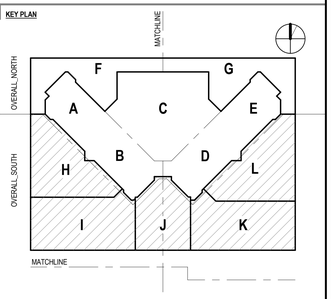

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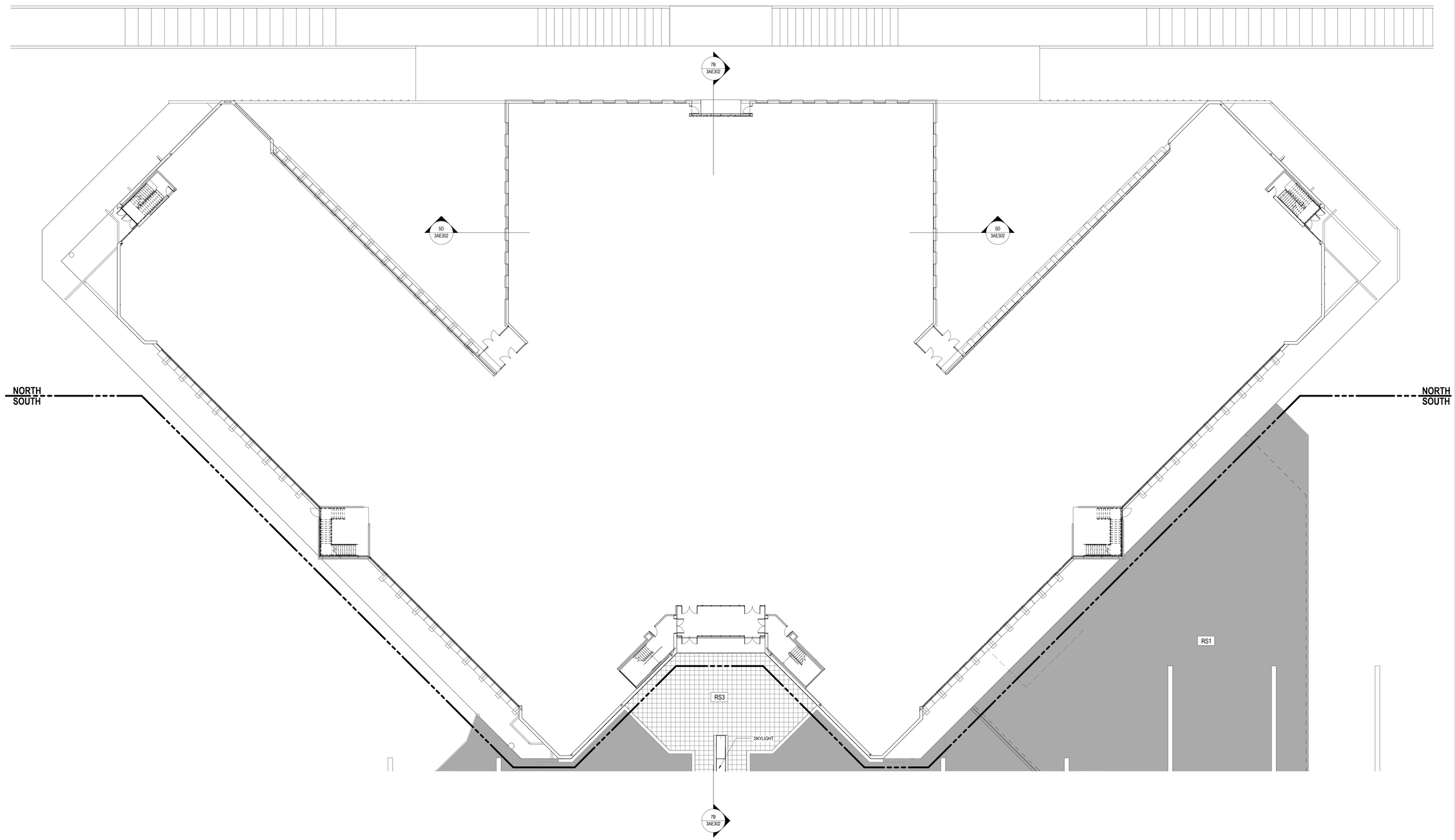
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

OVERALL PLAN - GREEN ROOF - SOUTH

SCALE: As indicated

3AE105

Schematic Design



2B OVERALL PLAN - GREEN ROOF WITH LANDSCAPE - NORTH

1/16" = 1'-0"

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CONSTRUCTION NOTES

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EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
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RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
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CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
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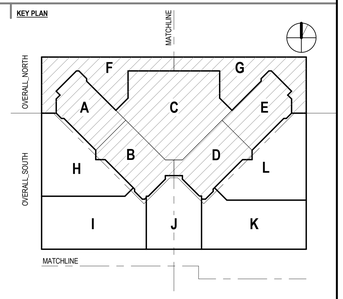
AFS	ALUMINUM FRAMED SKYLIGHT

KEY PLAN



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State of Wyoming

Administration & Information
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Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

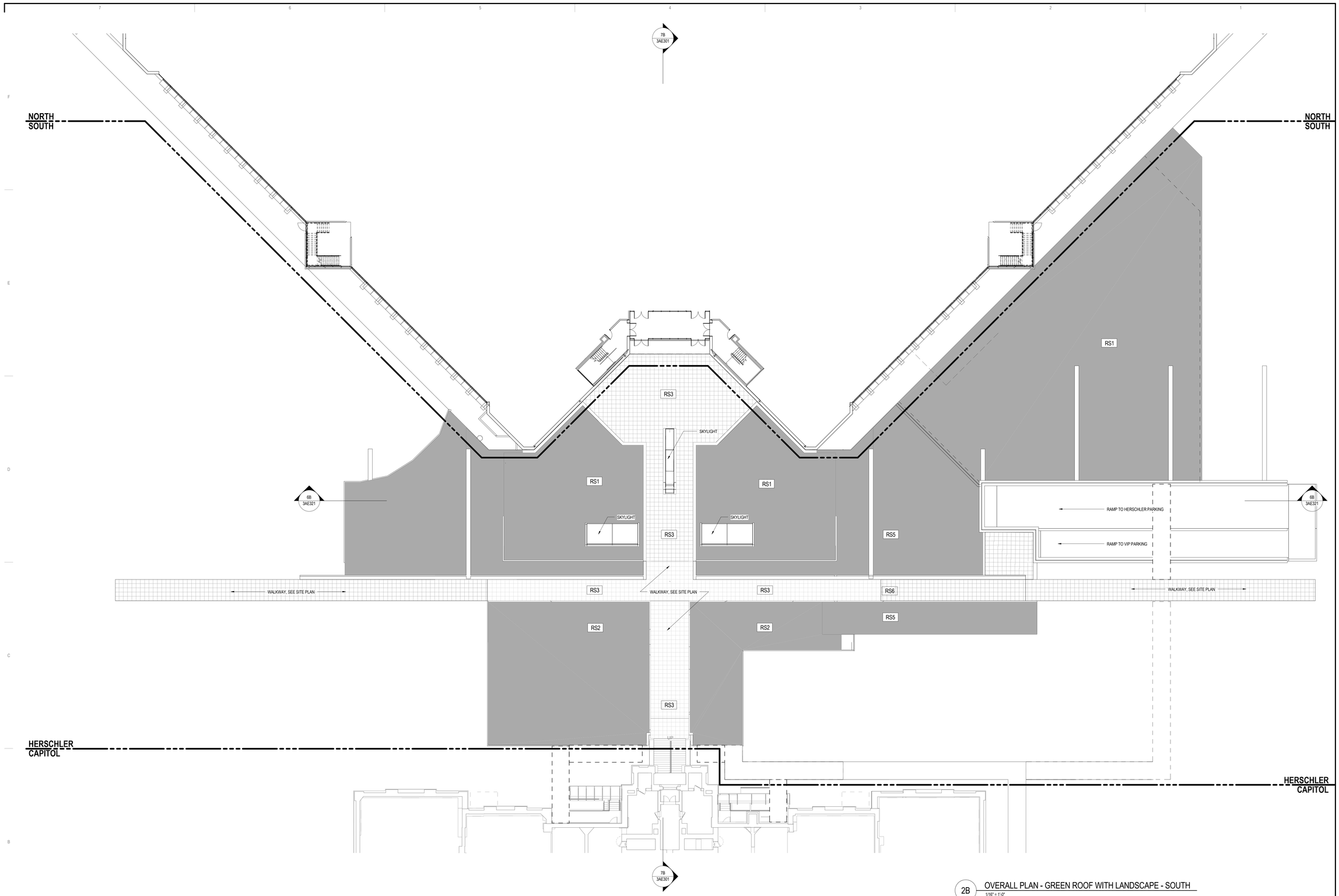
PROJECT NUMBER	203619
ORIGINAL ISSUE	10/14/14 -
PKG. IDENTIFIER	3

OVERALL PLAN - GREEN ROOF WITH LANDSCAPE - NORTH

SCALE: As indicated

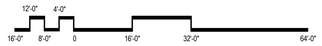
3AE106

Schematic Design



2B OVERALL PLAN - GREEN ROOF WITH LANDSCAPE - SOUTH

1/16" = 1'-0"



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CONSTRUCTION NOTES

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EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
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PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
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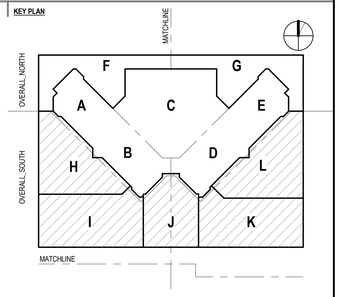
KEY PLAN



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HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

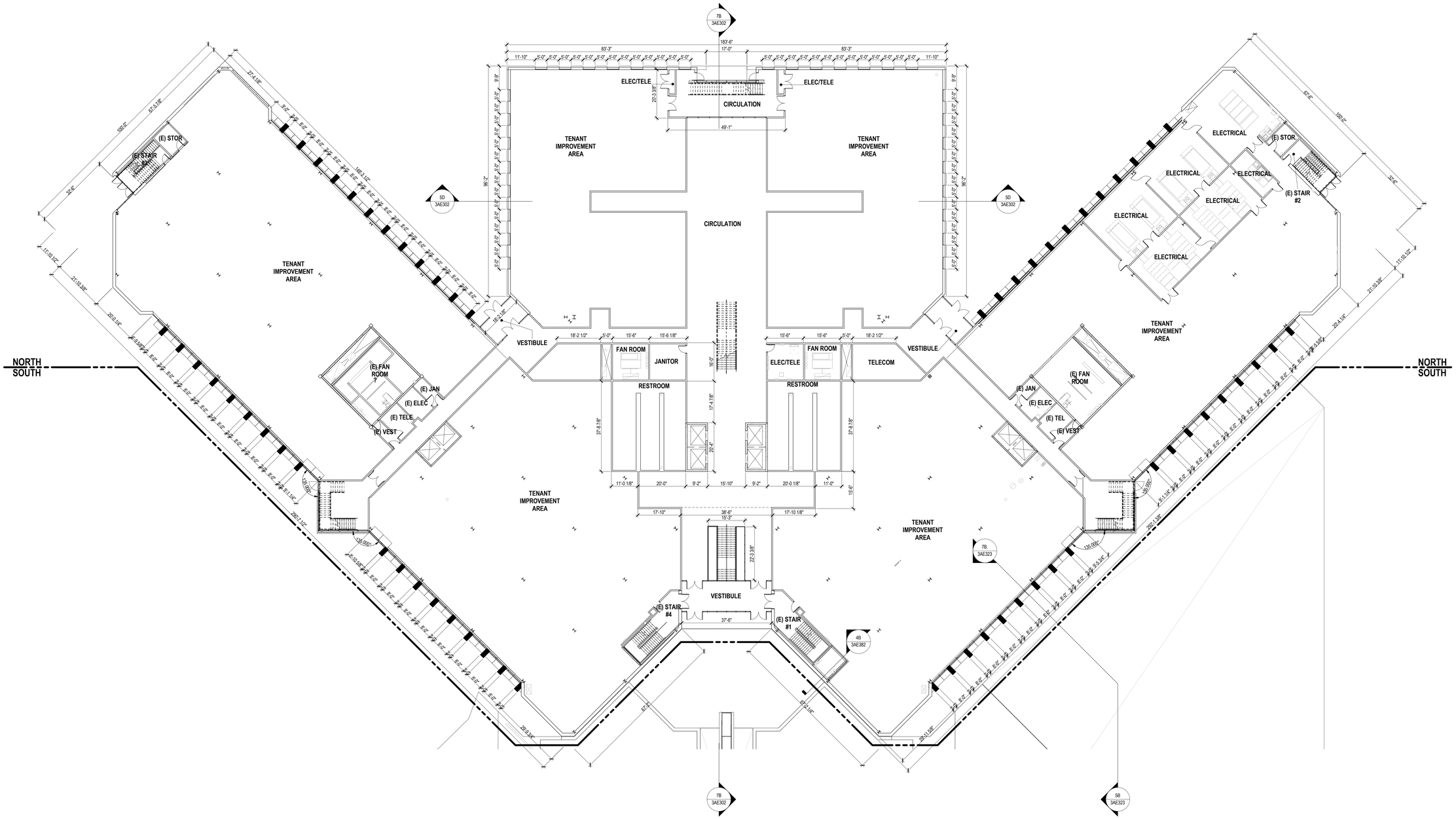
PROJECT NUMBER	203619
ORIGINAL ISSUE	09/24/14 -
PKG. IDENTIFIER	3

OVERALL PLAN - GREEN ROOF WITH LANDSCAPE - SOUTH

SCALE As indicated

3AE107

Schematic Design



2B OVERALL PLAN - LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

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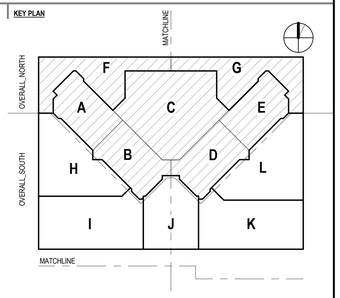
KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - LEVEL 1 - NORTH

SCALE As indicated

3AE110

Schematic Design

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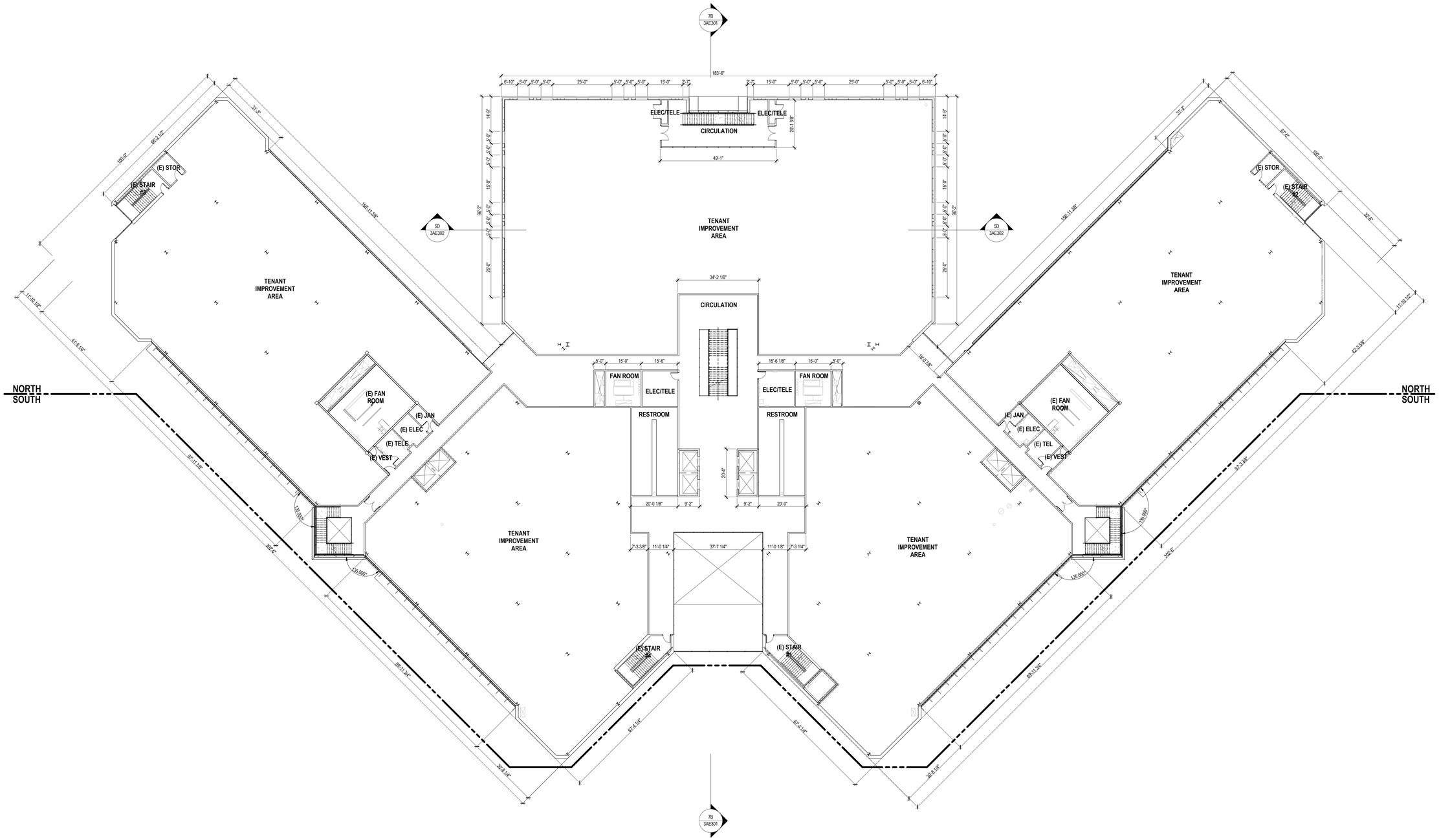

2B OVERALL PLAN - LEVEL 2 - NORTH

1/16" = 1'-0"

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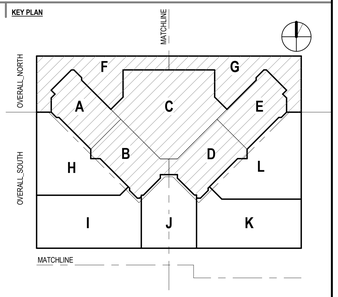
AFS	ALUMINUM FRAMED SKYLIGHT

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - LEVEL 2 - NORTH

SCALE As indicated

3AE120

Schematic Design

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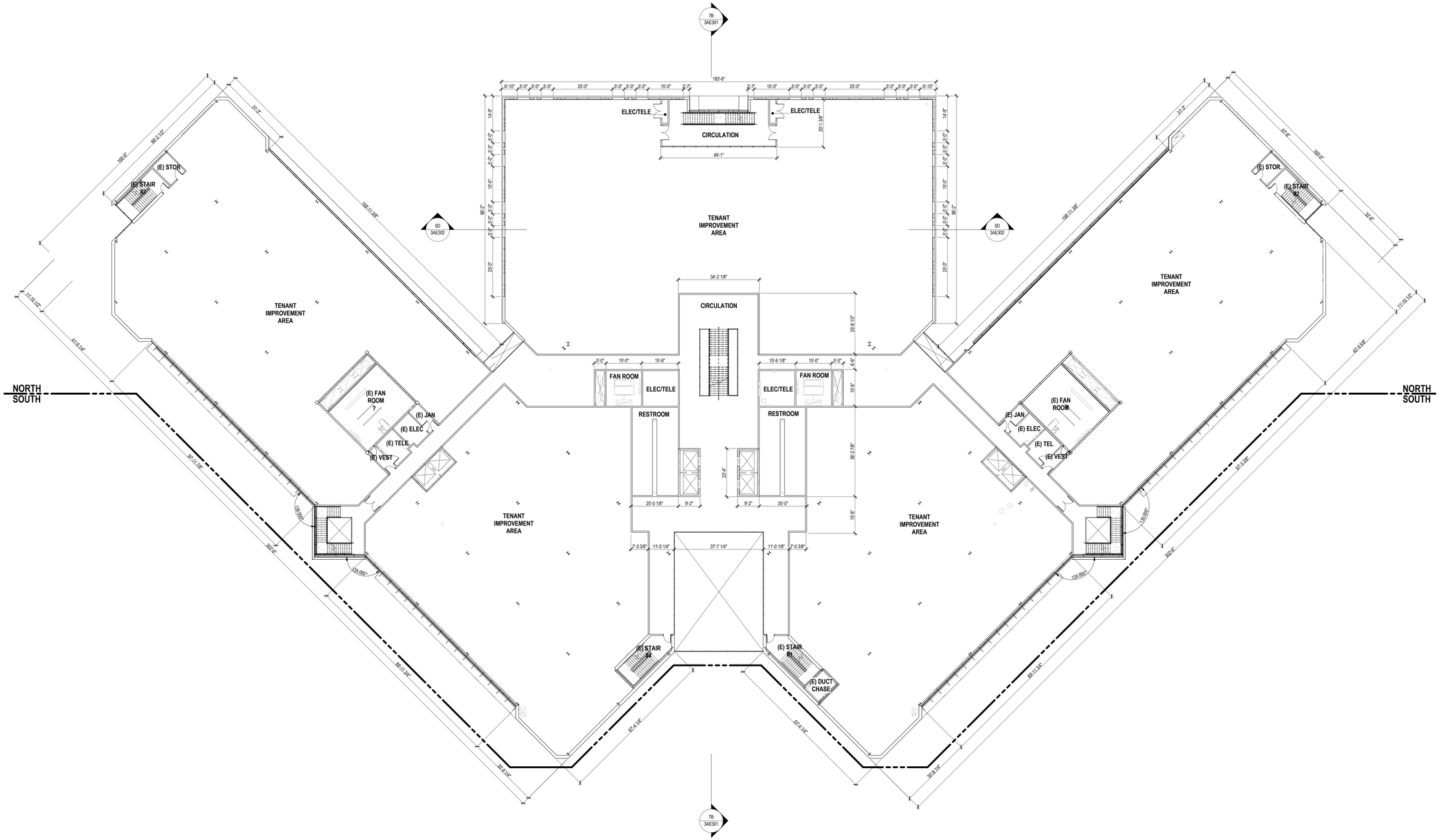

2B OVERALL PLAN - LEVEL 3 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 0 16'-0" 32'-0" 64'-0"

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CONSTRUCTION NOTES

GRAPHIC LEGEND

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
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EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
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CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
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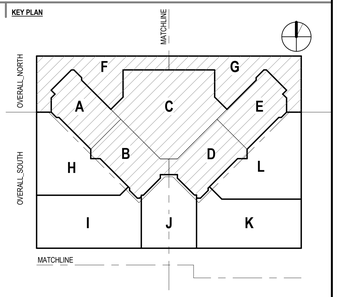

State of Wyoming

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Capitol Square
Rehabilitation and Restoration

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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619
ORIGINAL ISSUE 06/06/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - LEVEL 3 - NORTH

SCALE As indicated

3AE130

Schematic Design

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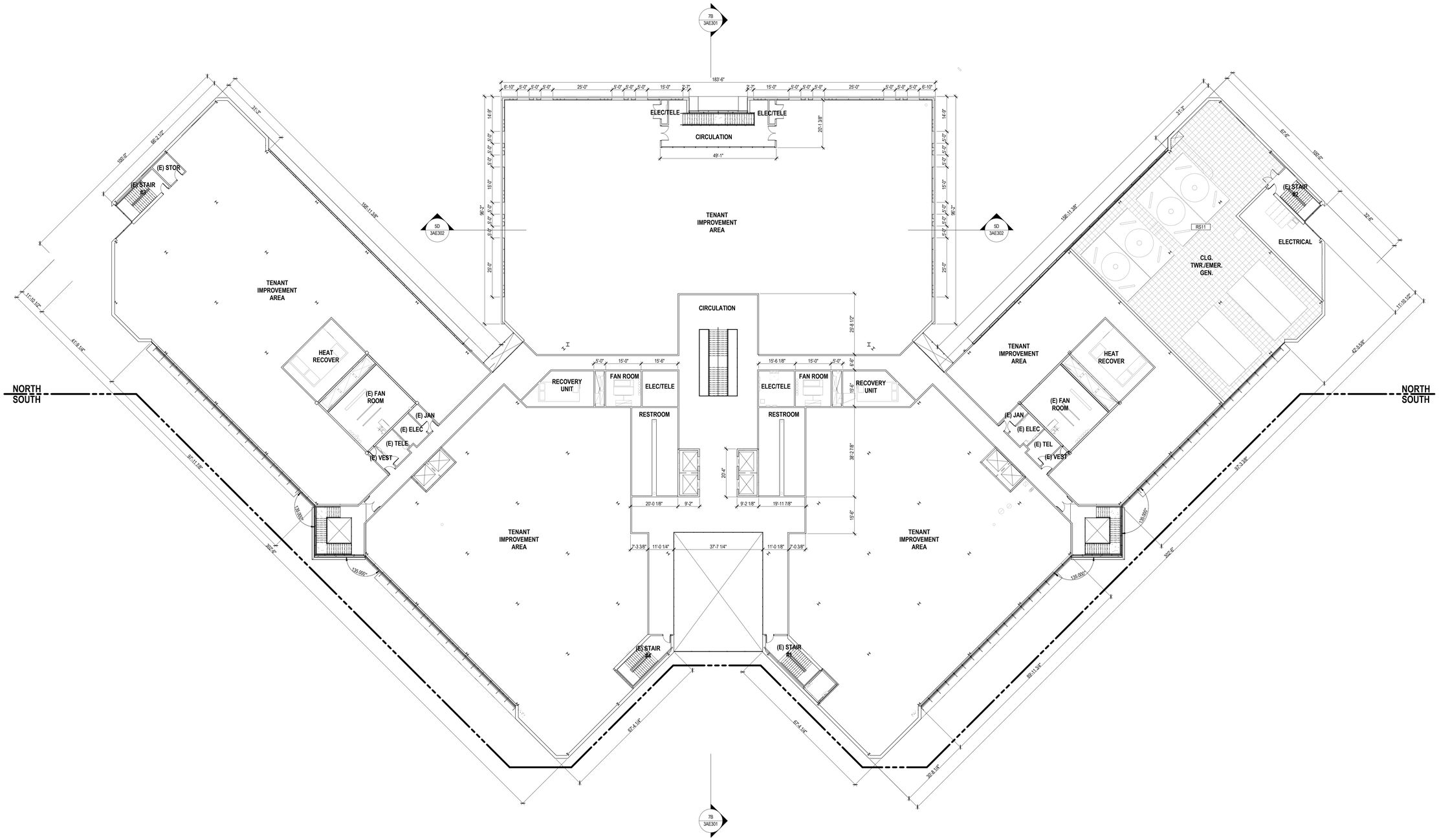

2B OVERALL PLAN - LEVEL 4 - NORTH

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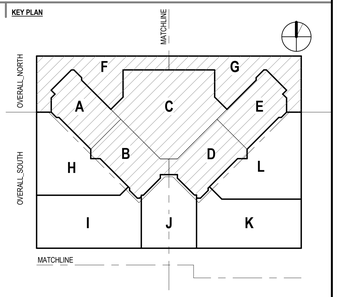

State of Wyoming

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Rehabilitation and Restoration

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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619
ORIGINAL ISSUE 06/06/14 -
PKG. IDENTIFIER 3

OVERALL PLAN - LEVEL 4 - NORTH

SCALE As indicated

3AE140

Schematic Design

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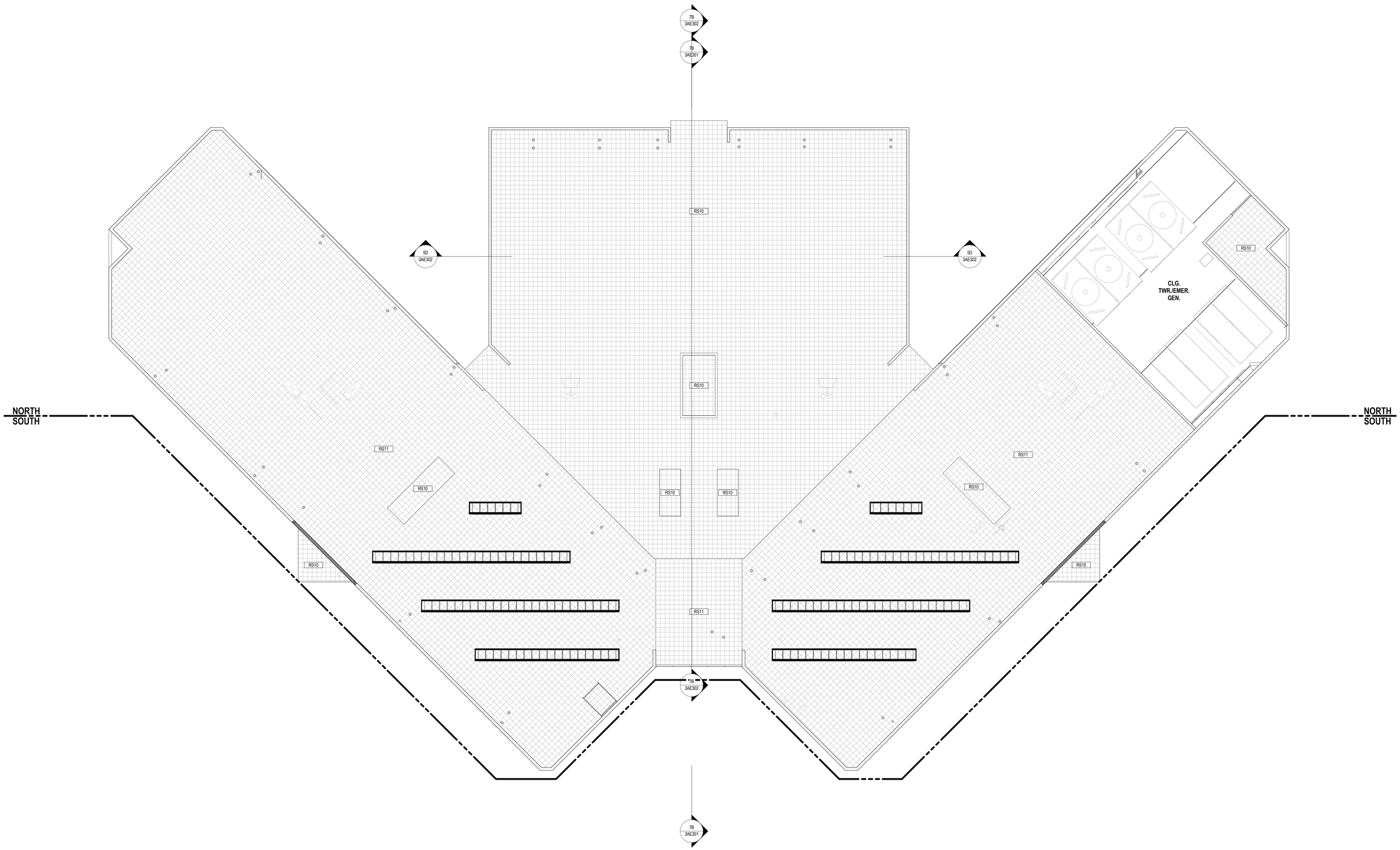

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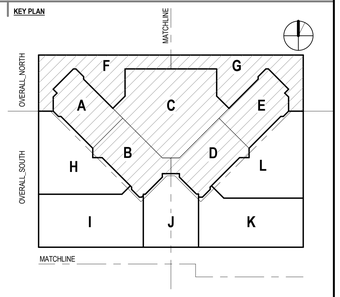

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PROJECT NUMBER 203619
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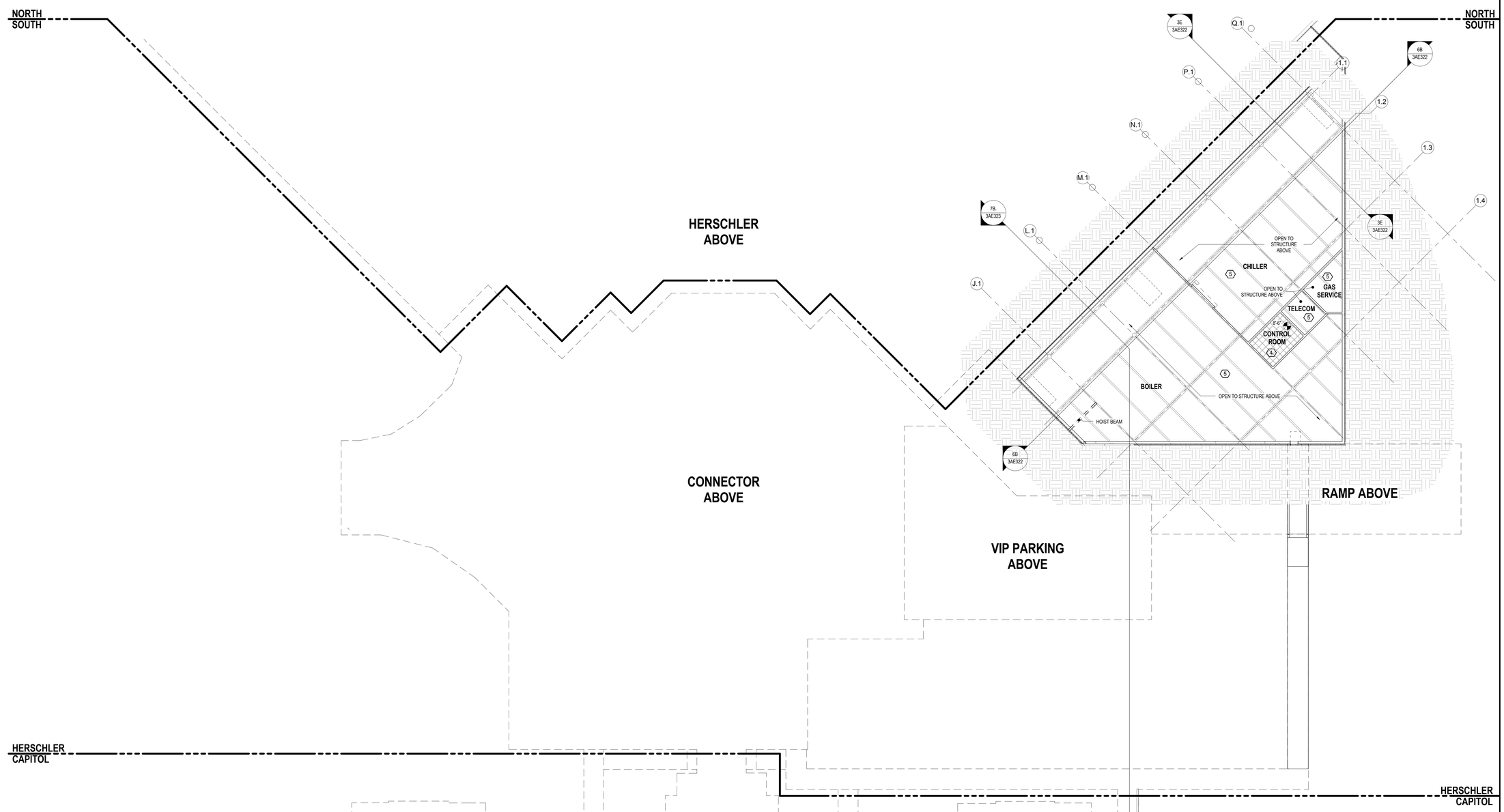
PKG. IDENTIFIER 3

OVERALL PLAN - ROOF - NORTH

SCALE As indicated

3AE150

Schematic Design



1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
•PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
•PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
•PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
•PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
•PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDE AND INSTALL 4" WALL WASH FIXTURES FOR 10% OF CEILING

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
•PROVIDE AND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDE 4" WALL WASH FIXTURES FOR 15% OF CEILING

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•NO CEILING IN THIS AREA - WILL BE OPEN TO DECK
•PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
•PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS – PUBLIC**
•PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
•PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

8 **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL ORNAMENTAL METAL
•PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

9 **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL CUSTOM MULTI- STORY PENDANT AND ADA COMPLIANT WALL SCONCES AT EACH STORY

10 **STAIRS – OFFICE**
•PROVIDE AND INSTALL MID-RANGE PRICE POINT, SURFACE MOUNTED FLUORESCENT FIXTURES AND ADA COMPLIANT WALL SCONCES

11 **CATERING KITCHEN**
•PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
•PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT

12 **RESTROOMS**
•PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
•PROVIDE AND INSTALL COVE LIGHTING AT PERIMETER OF ROOM
•PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT
•PROVIDE AND INSTALL ADA COMPLIANT WALL SCONCE FIXTURES INTEGRATED INTO ALL VANITY MIRRORS

2B OVERALL CLG PLAN - LOWER LEVEL 2
1/16" = 1'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
4. ALL GWB SOFFITS AND BULKHEADS ARE TO BE 2 INCHES BELOW ADJACENT SUSPENDED CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
5. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
6. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL, UNLESS NOTED OTHERWISE.
7. CEILINGS IN ELECTRICAL ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS & OTHER SIMILAR SPACES ARE EXPOSED TO STRUCTURE ABOVE UNLESS NOTED OR SCHEDULED OTHERWISE.
8. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
9. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
10. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
11. REFER TO ROOM FINISH SCHEDULE FOR THE EXTEND OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
12. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE.).
13. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
14. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINTS AT GWB. CEILINGS.
15. ALL FINISHED CEILING HEIGHT ELEVATIONS IN THE CONNECTOR ARE MEASURED FROM "LOWER LEVEL 1." ELEVATION 80'-2".
16. FOR THE PURPOSE OF THESE CONSTRUCTION DOCUMENTS, DATUM POINT '100'-0" HAS BEEN ASSIGNED AS EQUAL TO 6101.72'.

CONSTRUCTION NOTES

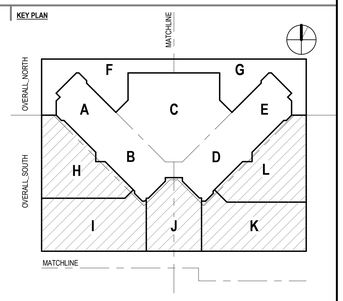
1. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
2. REFER TO MECHANICAL DRAWINGS (M SERIES) FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES, SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
3. REFER TO ELECTRICAL DRAWINGS (E SERIES) FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
4. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR TIGHT FIT.
5. REFER TO ROOM FINISH SCHEDULE FOR THE EXTENT OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
6. LOCATE CEILING GRID SYMMETRICALLY ABOUT THE CENTER OF THE ROOM OR SPACE IN BOTH DIRECTIONS U.N.O.
7. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
8. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINS AT GWB CEILINGS.

GRAPHIC LEGEND

1. CENTER RECESSED LIGHT ON DOORS
2. CENTER LIGHTS ON COLUMN LINE
3. PICK UP TILE, ALLOW CEILING PANEL AND GRID DIMENSIONS TO VARY AS NECESSARY.
4. EXPOSED TO STRUCTURE ABOVE. RE: MECH, ELEC, PLUMB. FOR ALL CEILING MOUNTED LIGHTS AND EQUIPMENT.
5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

ACOUSTICAL TILE CEILING (12X48)
ACOUSTICAL TILE CEILING (24X24)
ACOUSTICAL TILE CEILING (24X48)
GYPSUM CEILING - PAINTED
FLUORESCENT LIGHT FIXTURE
FLUORESCENT LIGHT FIXTURE
INCANDESCENT LIGHT FIXTURE
SMOKE DETECTOR
SPEAKER
EXIT LIGHT
HVAC SUPPLY DIFFUSER
HVAC RETURN DIFFUSER
RADIANT HEAT PANEL

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL CLG PLAN - LOWER LEVEL 2

SCALE As indicated

3AC10L

Schematic Design

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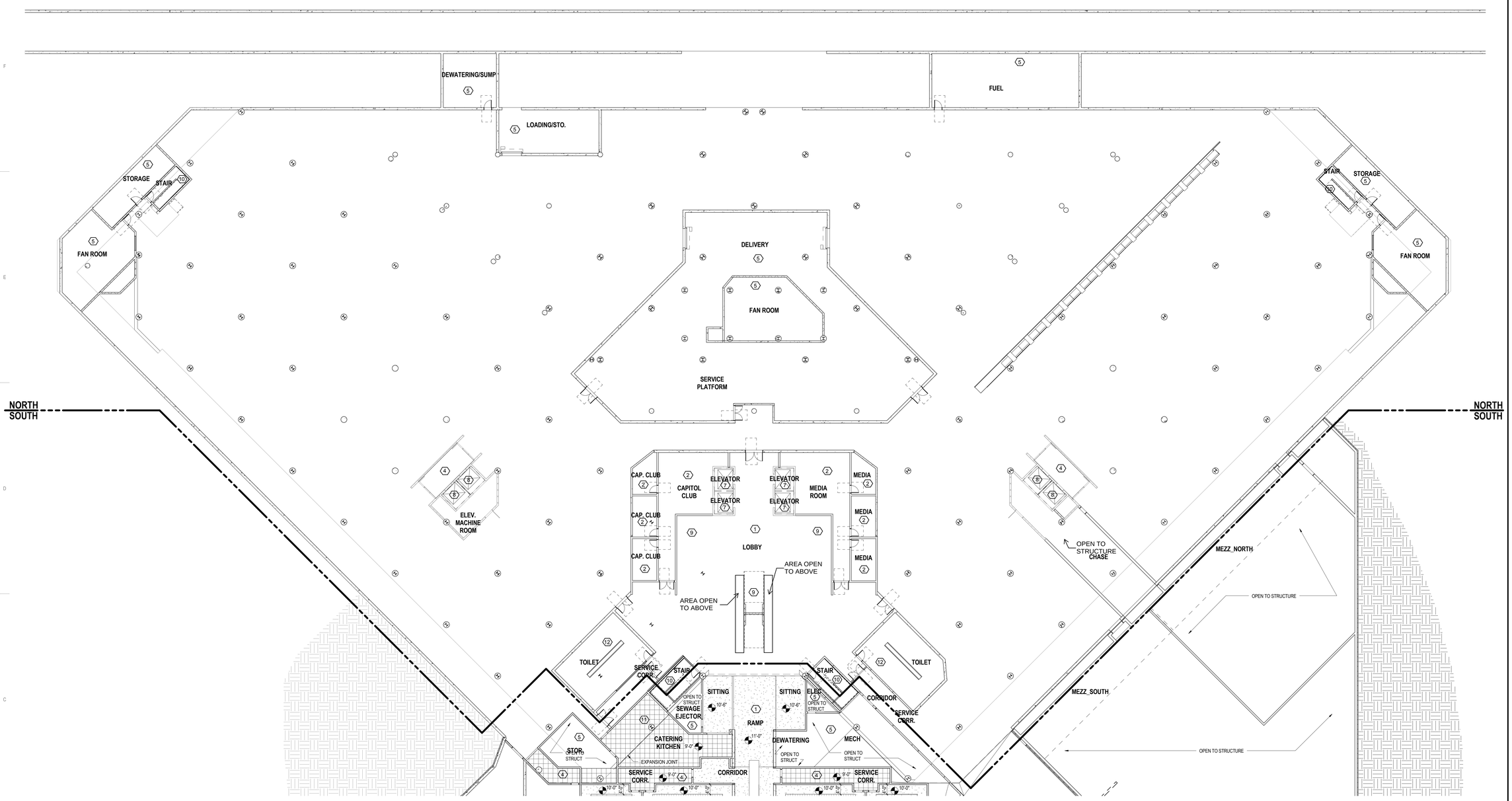

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
•PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
•PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
•PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
•PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
•PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDE AND INSTALL 4" WALL WASH FIXTURES FOR 10% OF CEILING

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA.
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
•PROVIDE AND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDE 4" WALL WASH FIXTURES FOR 15% OF CEILING

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•NO CEILING IN THIS AREA - WILL BE OPEN TO DECK
•PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
•PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
•PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
•PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
•PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
•PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS – PUBLIC**
•PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
•PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

8 **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL ORNAMENTAL METAL
•PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

9 **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL CUSTOM MULTI- STORY PENDANT AND ADA COMPLIANT WALL SCONCES AT EACH STORY

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•PROVIDE AND INSTALL MID-RANGE PRICE POINT, SURFACE MOUNTED FLUORESCENT FIXTURES AND ADA COMPLIANT WALL SCONCES

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•PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
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•PROVIDE AND INSTALL ADA COMPLIANT WALL SCONCE FIXTURES INTEGRATED INTO ALL VANITY MIRRORS

2B OVERALL CLG PLAN - LOWER LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

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13. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
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CONSTRUCTION NOTES

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8. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINS AT GWB CEILINGS.

GRAPHIC LEGEND

1. CENTER RECESSED LIGHT ON DOORS
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5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
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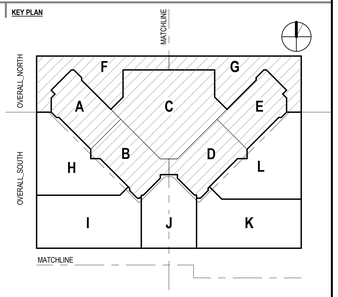
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

ACOUSTICAL TILE CEILING (12X48)
ACOUSTICAL TILE CEILING (24X24)
ACOUSTICAL TILE CEILING (24X48)
GYPSUM CEILING - PAINTED
FLUORESCENT LIGHT FIXTURE
FLUORESCENT LIGHT FIXTURE
INCANDESCENT LIGHT FIXTURE
SMOKE DETECTOR
SPEAKER
EXIT LIGHT
HVAC SUPPLY DIFFUSER
HVAC RETURN DIFFUSER
RADIANT HEAT PANEL

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL CLG PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3AC100

Schematic Design

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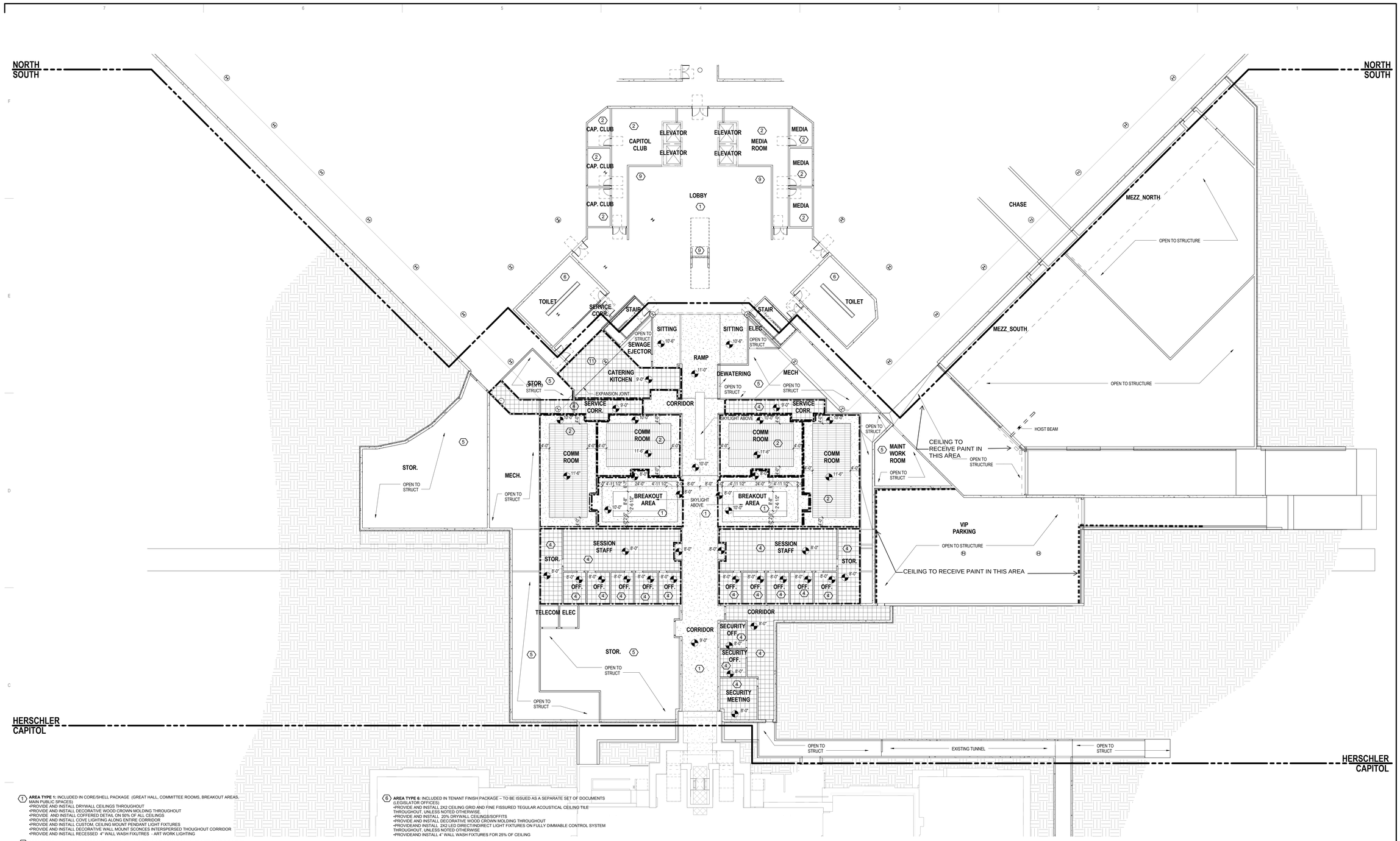
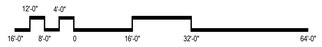


2B OVERALL CLG PLAN - LOWER LEVEL 1 - SOUTH
1/16" = 1'-0"



1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
- PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
- PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
- PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
- PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
- PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
- PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
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- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
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5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
- NO CEILING IN THIS AREA - WILL BE OPEN TO DECK
- PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

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5. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
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11. REFER TO ROOM FINISH SCHEDULE FOR THE EXTEND OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
12. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE \
13. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
14. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINTS AT GWB. CEILINGS.
15. ALL FINISHED CEILING HEIGHT ELEVATIONS IN THE CONNECTOR ARE MEASURED FROM "LOWER LEVEL 1," ELEVATION 80'-2".
16. FOR THE PURPOSE OF THESE CONSTRUCTION DOCUMENTS, DATUM POINT 100'-0" HAS BEEN ASSIGNED AS EQUAL TO 6101.72'.

CONSTRUCTION NOTES

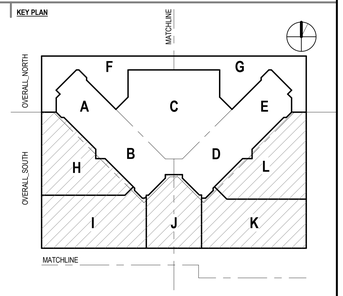
1. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
2. REFER TO MECHANICAL DRAWINGS (M SERIES) FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES, SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
3. REFER TO ELECTRICAL DRAWINGS (E SERIES) FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
4. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR TIGHT FIT.
5. REFER TO ROOM FINISH SCHEDULE FOR THE EXTENT OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
6. LOCATE CEILING GRID SYMMETRICALLY ABOUT THE CENTER OF THE ROOM OR SPACE IN BOTH DIRECTIONS U.N.O.
7. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
8. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINS AT GWB CEILINGS.

1. CENTER RECESSED LIGHT ON DOORS
2. CENTER LIGHTS ON COLUMN LINE
3. PICK UP TILE. ALLOW CEILING PANEL AND GRID DIMENSIONS TO VARY AS NECESSARY
4. EXPOSED TO STRUCTURE ABOVE, RE: MECH, ELEC, PLUMB. FOR ALL CEILING MOUNTED LIGHTS AND EQUIPMENT.
5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

GRAPHIC LEGEND

- ACOUSTICAL TILE CEILING (12X48)
- ACOUSTICAL TILE CEILING (24X24)
- ACOUSTICAL TILE CEILING (24X48)
- GYPSUM CEILING - PAINTED
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- INCANDESCENT LIGHT FIXTURE
- SMOKE DETECTOR
- SPEAKER
- EXIT LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- RADIANT HEAT PANEL

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL CLG PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3AC101

Schematic Design

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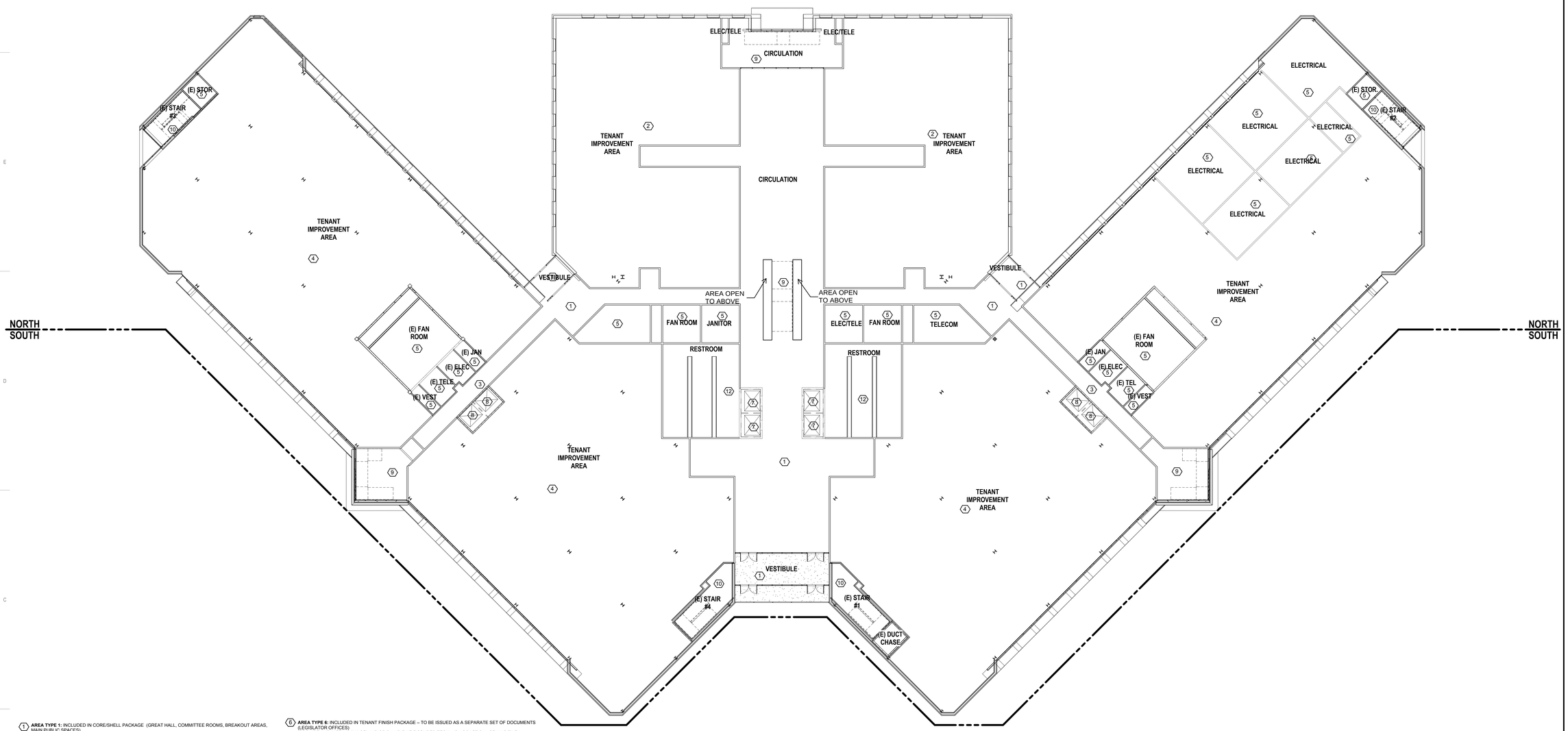

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
- PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
- PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
- PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
- PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
- PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
- PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
- PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
- PROVIDE AND INSTALL 4" WALL WASH FIXTURES FOR 10% OF CEILING

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
- PROVIDE AND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
- PROVIDE 4" WALL WASH FIXTURES FOR 15% OF CEILING

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
- NO CEILING IN THIS AREA - WILL BE OPEN TO DECK
- PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
- PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS – PUBLIC**
- PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
- PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

8 **ELEVATOR CABS – OFFICE**
- PROVIDE AND INSTALL ORNAMENTAL METAL
- PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

9 **STAIRS – ORNAMENTAL**
- PROVIDE AND INSTALL CUSTOM MULTI- STORY PENDANT AND ADA COMPLIANT WALL SCONCES AT EACH STORY

10 **STAIRS – OFFICE**
- PROVIDE AND INSTALL MID-RANGE PRICE POINT, SURFACE MOUNTED FLUORESCENT FIXTURES AND ADA COMPLIANT WALL SCONCES

11 **CATERING KITCHEN**
- PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
- PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT

12 **RESTROOMS**
- PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
- PROVIDE AND INSTALL COVE LIGHTING AT PERIMETER OF ROOM
- PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT
- PROVIDE AND INSTALL ADA COMPLIANT WALL SCONCE FIXTURES INTEGRATED INTO ALL VANITY MIRRORS

2B OVERALL CEILING PLAN - LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
4. ALL GWB SOFFITS AND BULKHEADS ARE TO BE 2 INCHES BELOW ADJACENT SUSPENDED CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
5. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
6. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL, UNLESS NOTED OTHERWISE.
7. CEILINGS IN ELECTRICAL ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS & OTHER SIMILAR SPACES ARE EXPOSED TO STRUCTURE ABOVE UNLESS NOTED OR SCHEDULED OTHERWISE.
8. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
9. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
10. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
11. REFER TO ROOM FINISH SCHEDULE FOR THE EXTEND OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
12. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE.\
13. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
14. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINTS AT GWB. CEILINGS.
15. ALL FINISHED CEILING HEIGHT ELEVATIONS IN THE CONNECTOR ARE MEASURED FROM "LOWER LEVEL 1," ELEVATION 80'-2".
16. FOR THE PURPOSE OF THESE CONSTRUCTION DOCUMENTS, DATUM POINT 100'-0" HAS BEEN ASSIGNED AS EQUAL TO 6101.72'.

CONSTRUCTION NOTES

1. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
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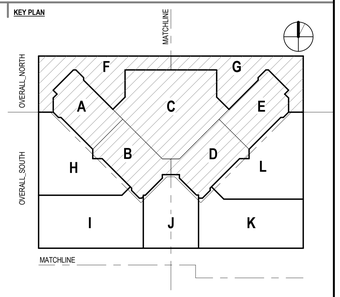
7. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
8. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINS AT GWB CEILINGS.

1. CENTER RECESSED LIGHT ON DOORS
2. CENTER LIGHTS ON COLUMN LINE
3. PICK UP TILE. ALLOW CEILING PANEL AND GRID DIMENSIONS TO VARY AS NECESSARY
4. EXPOSED TO STRUCTURE ABOVE, RE: MECH, ELEC, PLUMB. FOR ALL CEILING MOUNTED LIGHTS AND EQUIPMENT.
5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

GRAPHIC LEGEND

- ACOUSTICAL TILE CEILING (12X48)
- ACOUSTICAL TILE CEILING (24X24)
- ACOUSTICAL TILE CEILING (24X48)
- GYPSUM CEILING - PAINTED
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- INCANDESCENT LIGHT FIXTURE
- SMOKE DETECTOR
- SPEAKER
- EXIT LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- RADIANT HEAT PANEL

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE 06/06/14 -

PKG. IDENTIFIER 3

OVERALL CLG PLAN - LEVEL 1 - NORTH

SCALE As indicated

3AC110

Schematic Design

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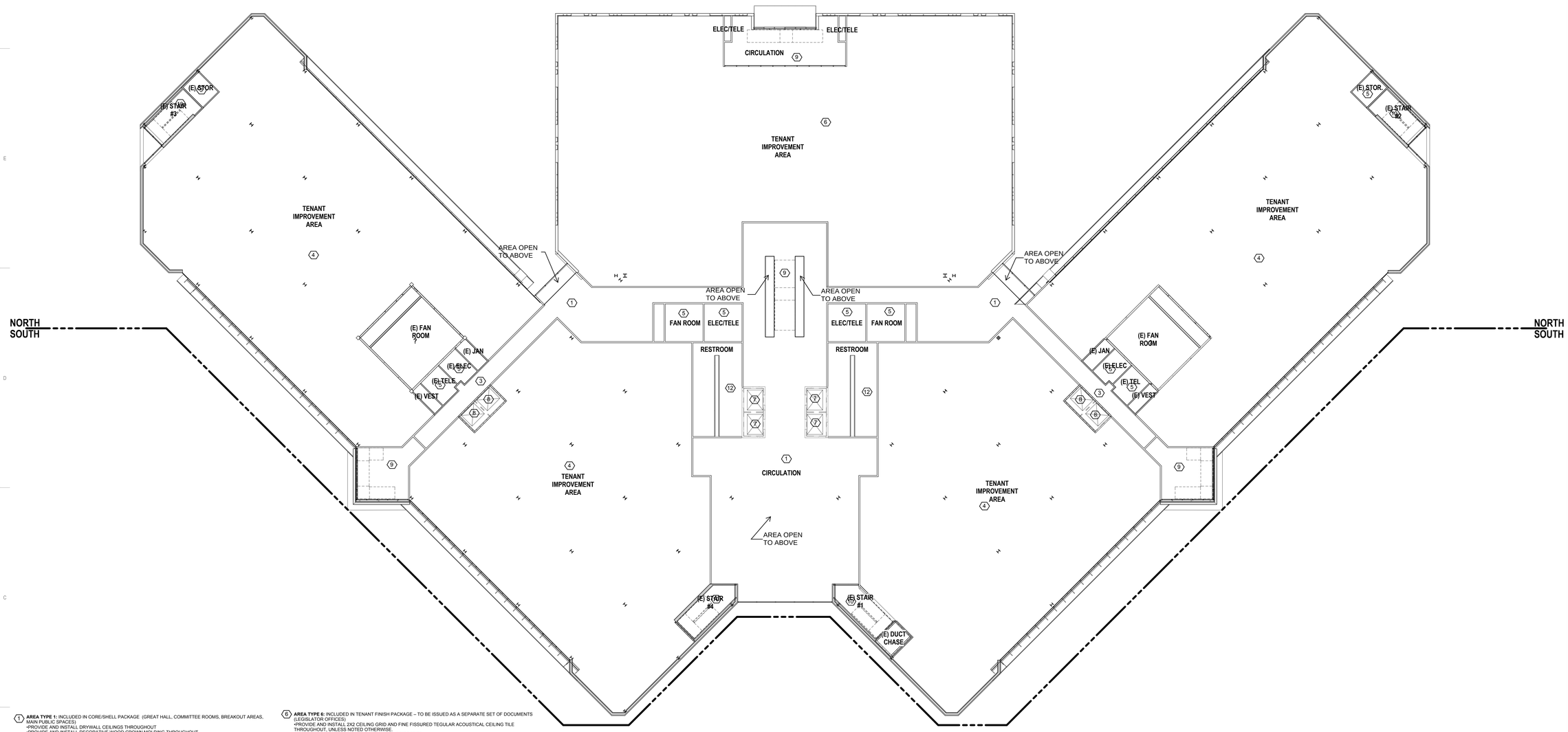

2B OVERALL CEILING PLAN - LEVEL 2 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"

16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
- •PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
- •PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- •PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
- •PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
- •PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
- •PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
- •PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
- •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
- •PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
- •PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- •PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
- •PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
- •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
- •PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
- •PROVIDE AND INSTALL 4" WALL WASH FIXTURES FOR 10% OF CEILING

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
- •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
- •PROVIDE AND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
- •PROVIDE 4" WALL WASH FIXTURES FOR 15% OF CEILING

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
- •NO CEILING IN THIS AREA - WILL BE OPEN TO DECK
- •PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
- •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE
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THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

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- •PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
- •PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

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- •PROVIDE AND INSTALL ORNAMENTAL METAL
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- •PROVIDE AND INSTALL CUSTOM MULTI- STORY PENDANT AND ADA COMPLIANT WALL SCONCES AT EACH STORY

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- •PROVIDE AND INSTALL MID-RANGE PRICE POINT, SURFACE MOUNTED FLUORESCENT FIXTURES AND ADA COMPLIANT WALL SCONCES

11 **CATERING KITCHEN**
- •PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
- •PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT

12 **RESTROOMS**
- •PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
- •PROVIDE AND INSTALL COVE LIGHTING AT PERIMETER OF ROOM
- •PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT
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5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
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8. START POINT FOR CEILING GRID SYSTEM
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10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

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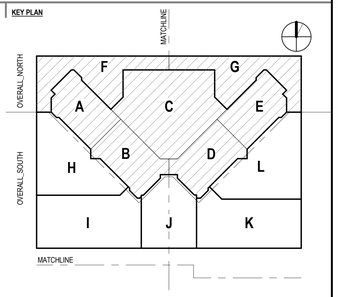
- ACOUSTICAL TILE CEILING (12X48)
- ACOUSTICAL TILE CEILING (24X24)
- ACOUSTICAL TILE CEILING (24X48)
- GYPSUM CEILING - PAINTED
- FLUORESCENT LIGHT FIXTURE
- FLUORESCENT LIGHT FIXTURE
- INCANDESCENT LIGHT FIXTURE
- SMOKE DETECTOR
- SPEAKER
- EXIT LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- RADIANT HEAT PANEL

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE 06/06/14 -

PKG. IDENTIFIER 3

OVERALL CLG PLAN - LEVEL 2 - NORTH

SCALE As indicated

3AC120

Schematic Design

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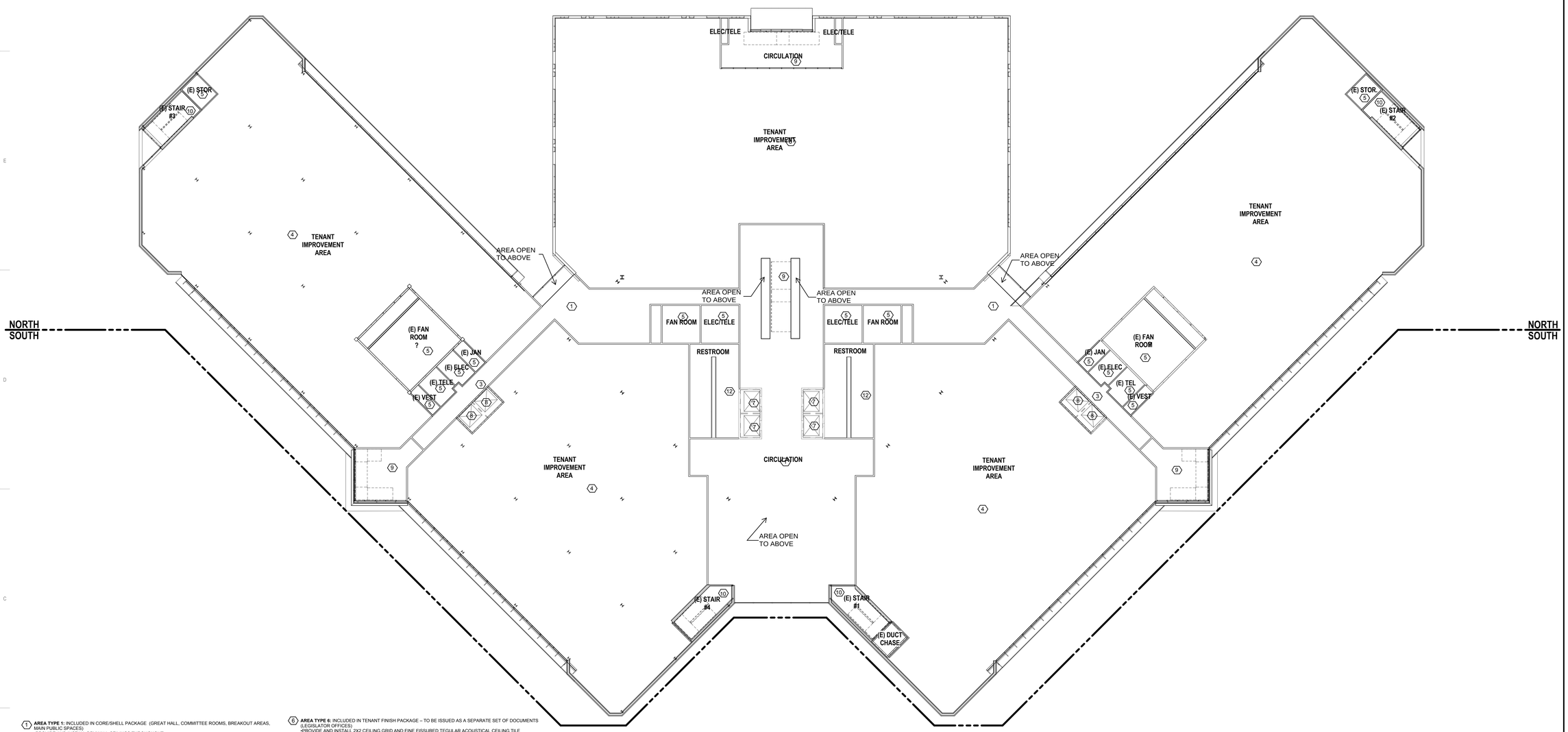

1. **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
   - •PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
   - •PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
   - •PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
   - •PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
   - •PROVIDE AND INSTALL CUSTOM, CEILING MOUNT PENDANT LIGHT FIXTURES
   - •PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
   - •PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING
2. **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
   - •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE
   - •PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
   - •PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
   - •PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
   - •PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING
3. **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
   - •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
   - •PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
   - •PROVIDE AND INSTALL 4" WALL WASH FIXTURES FOR 10% OF CEILING
4. **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
   SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
   - •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT
   - •PROVIDE AND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES THROUGHOUT, UNLESS NOTED OTHERWISE
   - •PROVIDE 4" WALL WASH FIXTURES FOR 15% OF CEILING
5. **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
   - •NO CEILING IN THIS AREA - WILL BE OPEN TO DECK.
   - •PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT
6. **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
   - •PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE.
   - •PROVIDE AND INSTALL 20% DRYWALL CEILINGS/SOFFITS
   - •PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
   - •PROVIDEAND INSTALL 2X2 LED DIRECT/INDIRECT LIGHT FIXTURES ON FULLY DIMMABLE CONTROL SYSTEM THROUGHOUT, UNLESS NOTED OTHERWISE
   - •PROVIDEAND INSTALL 4" WALL WASH FIXTURES FOR 25% OF CEILING

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7. **ELEVATOR CABS – PUBLIC:**
   - •PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
   - •PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB
8. **ELEVATOR CABS – OFFICE**
   - •PROVIDE AND INSTALL ORNAMENTAL METAL
   - •PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB
9. **STAIRS – ORNAMENTAL**
   - •PROVIDE AND INSTALL CUSTOM MULTI- STORY PENDANT AND ADA COMPLIANT WALL SCONCES AT EACH STORY
10. **STAIRS – OFFICE**
    - •PROVIDE AND INSTALL MID-RANGE PRICE POINT, SURFACE MOUNTED FLUORESCENT FIXTURES AND ADA COMPLIANT WALL SCONCES
11. **CATERING KITCHEN**
    - •PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
    - •PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT
12. **RESTROOMS**
    - •PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
    - •PROVIDE AND INSTALL COVE LIGHTING AT PERIMETER OF ROOM
    - •PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT
    - •PROVIDE AND INSTALL ADA COMPLIANT WALL SCONCE FIXTURES INTEGRATED INTO ALL VANITY MIRRORS

2B OVERALL CEILING PLAN - LEVEL 3 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
4. ALL GWB SOFFITS AND BULKHEADS ARE TO BE 2 INCHES BELOW ADJACENT SUSPENDED CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
5. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
6. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL, UNLESS NOTED OTHERWISE.
7. CEILINGS IN ELECTRICAL ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS & OTHER SIMILAR SPACES ARE EXPOSED TO STRUCTURE ABOVE UNLESS NOTED OR SCHEDULED OTHERWISE.
8. REFER TO ELECTRICAL DRAWINGS FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
9. REFER TO MECHANICAL DRAWINGS FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
10. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ENTIRE PROJECT HAS FIRE SPRINKLER HEADS IN CEILING. SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
11. REFER TO ROOM FINISH SCHEDULE FOR THE EXTEND OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
12. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE \
13. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
14. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINTS AT GWB. CEILINGS.
15. ALL FINISHED CEILING HEIGHT ELEVATIONS IN THE CONNECTOR ARE MEASURED FROM "LOWER LEVEL 1," ELEVATION 80'-2".
16. FOR THE PURPOSE OF THESE CONSTRUCTION DOCUMENTS, DATUM POINT 100'-0" HAS BEEN ASSIGNED AS EQUAL TO 6101.72'.

CONSTRUCTION NOTES

1. PROVIDE GYPSUM WALL BOARD AND METAL STUD BULKHEADS WHERE CEILINGS OF DIFFERENT HEIGHTS ABUT. DO NOT BUILD BULKHEADS OF ACOUSTICAL CEILING MATERIALS UNLESS SPECIFICALLY DETAILED.
2. REFER TO MECHANICAL DRAWINGS (M SERIES) FOR QUANTITY AND TYPE OF DIFFUSERS, RETURN AIR GRILLES, AND EXHAUST GRILLES, SCRIBE CEILING MATERIALS CAREFULLY FOR A TIGHT FIT.
3. REFER TO ELECTRICAL DRAWINGS (E SERIES) FOR QUANTITY AND TYPE OF LIGHTS, SPEAKERS, DETECTORS, POWER OUTLETS, ETC. SCRIBE CEILING MATERIALS CAREFULLY.
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5. REFER TO ROOM FINISH SCHEDULE FOR THE EXTENT OF GRID SYSTEM. REFLECTED CEILING PLANS SHOW TILE PATTERNS.
6. LOCATE CEILING GRID SYMMETRICALLY ABOUT THE CENTER OF THE ROOM OR SPACE IN BOTH DIRECTIONS U.N.O.
7. LOCATE LIGHTS IN CENTER OF ALCOVE WALLS ON THE CEILING U.N.O.
8. COORDINATE AND ALIGN ALL REMOTE-OPERATED VOLUME DAMPER ACCESS POINS AT GWB CEILINGS.

1. CENTER RECESSED LIGHT ON DOORS
2. CENTER LIGHTS ON COLUMN LINE
3. PICK UP TILE, ALLOW CEILING PANEL AND GRID DIMENSIONS TO VARY AS NECESSARY
4. EXPOSED TO STRUCTURE ABOVE, RE: MECH, ELEC, PLUMB. FOR ALL CEILING MOUNTED LIGHTS AND EQUIPMENT.
5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

GRAPHIC LEGEND

- ACOUSTICAL TILE CEILING (12X48)
- ACOUSTICAL TILE CEILING (24X24)
- ACOUSTICAL TILE CEILING (24X48)
- GYPSUM CEILING - PAINTED
- FLUORESCENT LIGHT FIXTURE
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- EXIT LIGHT
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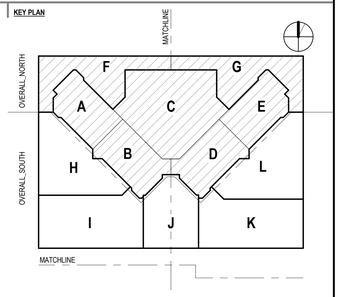
KEY PLAN



State of Wyoming

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MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619
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PKG. IDENTIFIER 3

OVERALL CLG PLAN - LEVEL 3 - NORTH

SCALE As indicated

3AC130

Schematic Design

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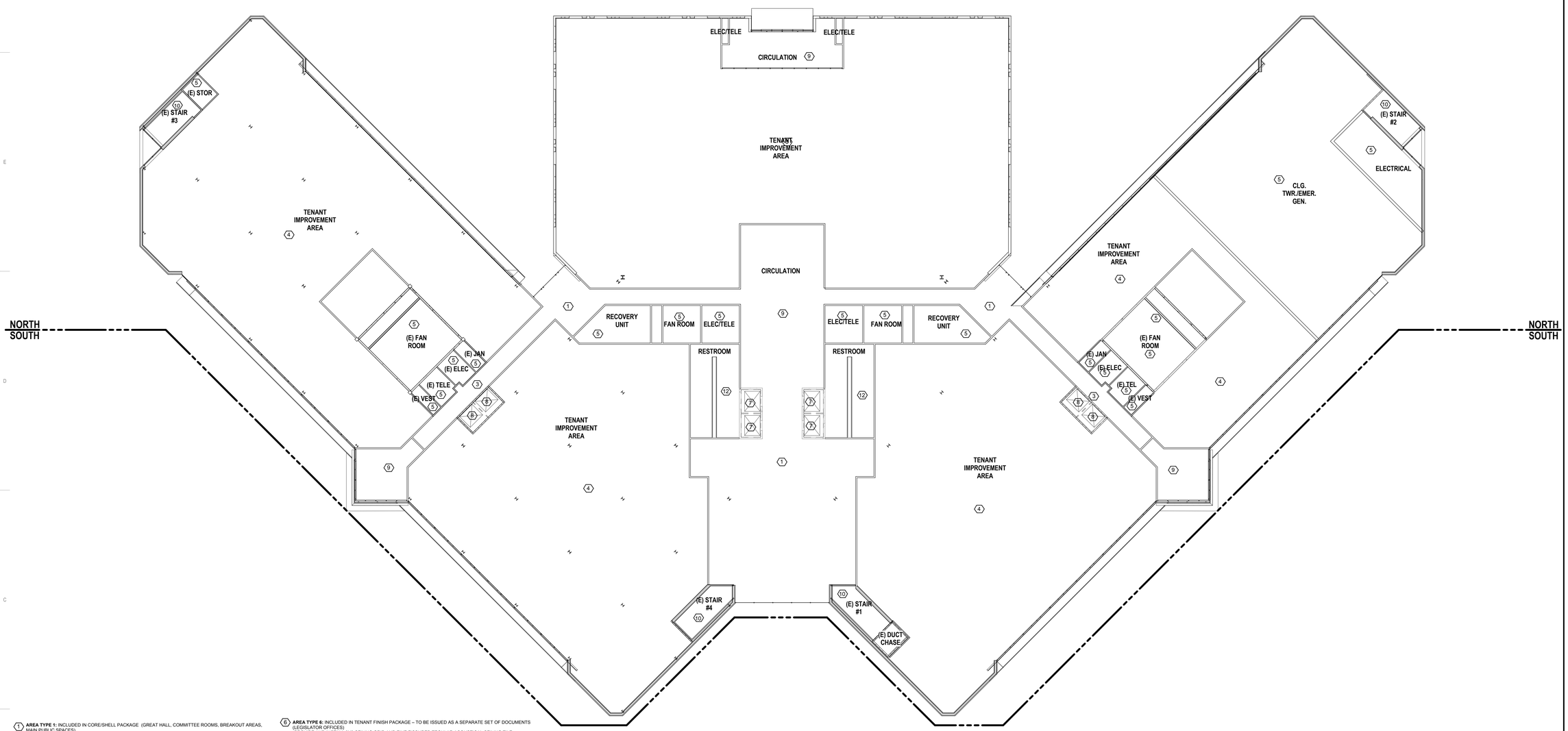

1 AREA TYPE 1: INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
- PROVIDE AND INSTALL DRYWALL CEILINGS THROUGHOUT
- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
- PROVIDE AND INSTALL COFFERED DETAIL ON 50% OF ALL CEILINGS
- PROVIDE AND INSTALL COVE LIGHTING ALONG ENTIRE CORRIDOR
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- PROVIDE AND INSTALL DECORATIVE WALL MOUNT SCONCES INTERSPERSED THOUGHOUT CORRIDOR
- PROVIDE AND INSTALL RECESSED 4" WALL WASH FIXUTRES - ART WORK LIGHTING

2 AREA TYPE 2: INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS, CONFERENCE FACILITIES, LEGISLATOR OFFICES)
- PROVIDE AND INSTALL 2X2 CEILING GRID AND FINE FISSURED TEGULAR ACOUSTICAL CEILING TILE THROUGHOUT, UNLESS NOTED OTHERWISE
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- PROVIDE AND INSTALL DECORATIVE WOOD CROWN MOLDING THROUGHOUT
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5 AREA TYPE 5: INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
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- PROVIDE AND INSTALL 8' LONG PENDANT MOUNTED FLUORESCENT FIXTURES THROUGHOUT

6 AREA TYPE 6: INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (LEGISLATOR OFFICES)
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- PROVIDE AND INSTALL ORNAMENTAL METAL CEILING
- PROVIDE AND INSTALL 8, RECESSED LED DOWNLIGHT FIXTURES PER CAB

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- PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
- PROVIDE AND INSTALL LED RECESSED DOWNLIGHTS THROUGHOUT

12 RESTROOMS
- PROVIDE AND INSTALL GYP BOARD CEILING THROUGHOUT
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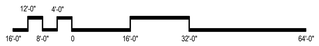
2B OVERALL CEILING PLAN - LEVEL 4 - NORTH

1/16" = 1'-0"



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CONSTRUCTION NOTES

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2. CENTER LIGHTS ON COLUMN LINE
3. PICK UP TILE. ALLOW CEILING PANEL AND GRID DIMENSIONS TO VARY AS NECESSARY
4. EXPOSED TO STRUCTURE ABOVE, RE: MECH, ELEC, PLUMB. FOR ALL CEILING MOUNTED LIGHTS AND EQUIPMENT.
5. LIGHT COVE ABOVE CEILING RE: ELECTRICAL FOR FIXTURE TYPE.
6. EXPANSION JOINT, SEE __/____ FOR ADDITIONAL DETAIL.
7. OVERHEAD COILING GRILL
8. START POINT FOR CEILING GRID SYSTEM
9. 1" TRANSITION BETWEEN ACOUSTICAL TILE AND GYP. BOARD CEILING SEE __/____ FOR ADDITIONAL DETAIL.
10. RECESSED SMOKE CONTAINMENT SYSTEM
11. ENTIRE ROOM TO HAVE SOUND CONTROL INSULATION.

GRAPHIC LEGEND

- ACOUSTICAL TILE CEILING (12X48)
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- ACOUSTICAL TILE CEILING (24X48)
- GYPSUM CEILING - PAINTED
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- FLUORESCENT LIGHT FIXTURE
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- EXIT LIGHT
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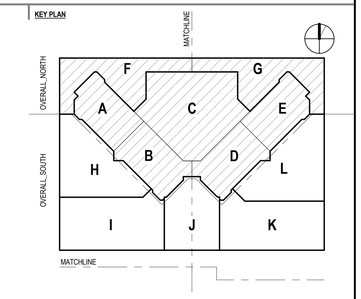
KEY PLAN



State of Wyoming

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Capitol Square
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PRELIMINARY
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/06/14 -
PKG. IDENTIFIER 3

OVERALL CLG PLAN - LEVEL 4 - NORTH

SCALE As indicated

3AC140

Schematic Design

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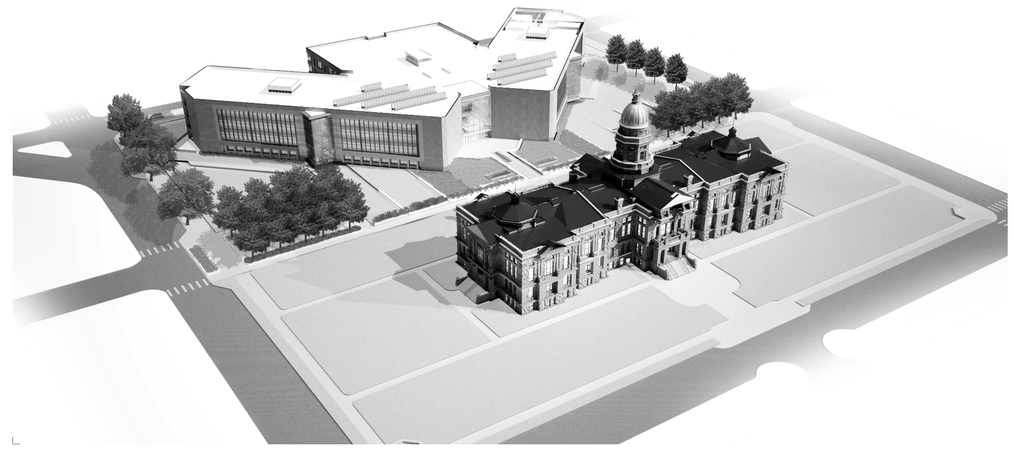
7D SKYLIGHT EXTERIOR - SLOPED
NTS



4D SOUTH AERIAL
NTS

7B CAPITOL FROM CONNECTOR
NTS

4B HERSCHLER FROM CAPITOL
NTS

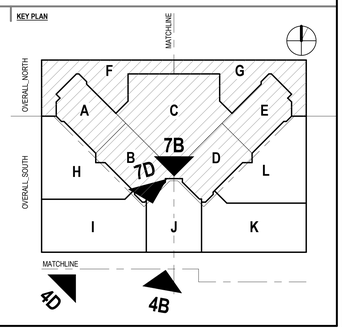
GENERAL NOTES

1. DRAWINGS ARE FOR REFERENCE ONLY.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	06/06/14 -
PKG. IDENTIFIER	3

EXTERIOR 3D - HERSCHLER

SCALE 12" = 1'-0"

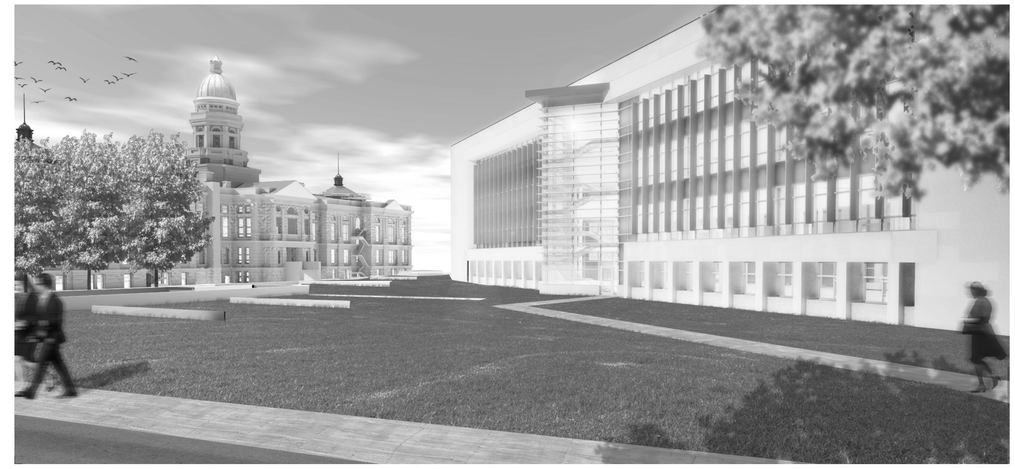
3AE201

Schematic Design

7D NORTH ADDITION PERSPECTIVE
NTS

4D NORTH AERIAL
NTS

7B ADDITION FROM CAPITOL AVE
NTS



4B SOUTH STAIR PERSPECTIVE
NTS

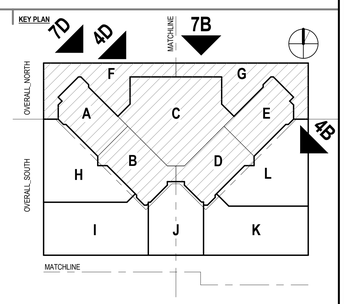
GENERAL NOTES

1. DRAWINGS ARE FOR REFERENCE ONLY.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	06/06/14 -
PKG. IDENTIFIER	3

EXTERIOR 3D - HERSCHLER

SCALE 12" = 1'-0"

3AE202

Schematic Design

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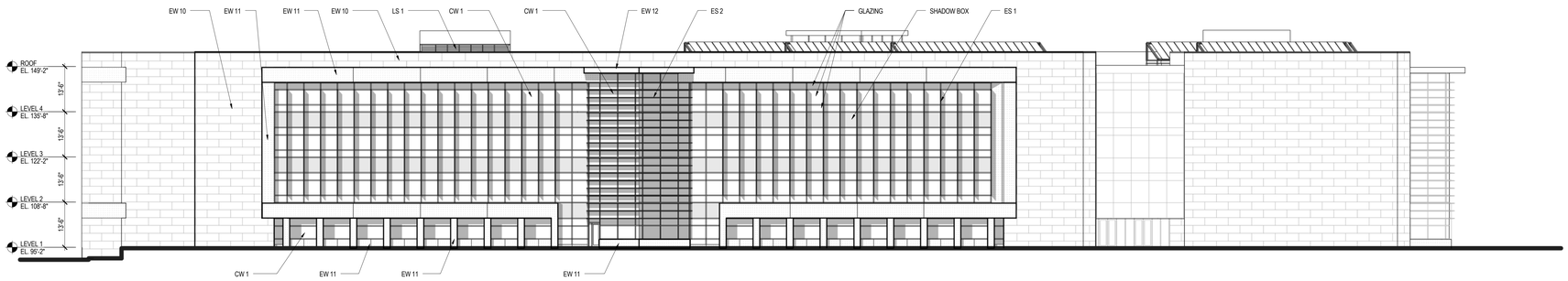
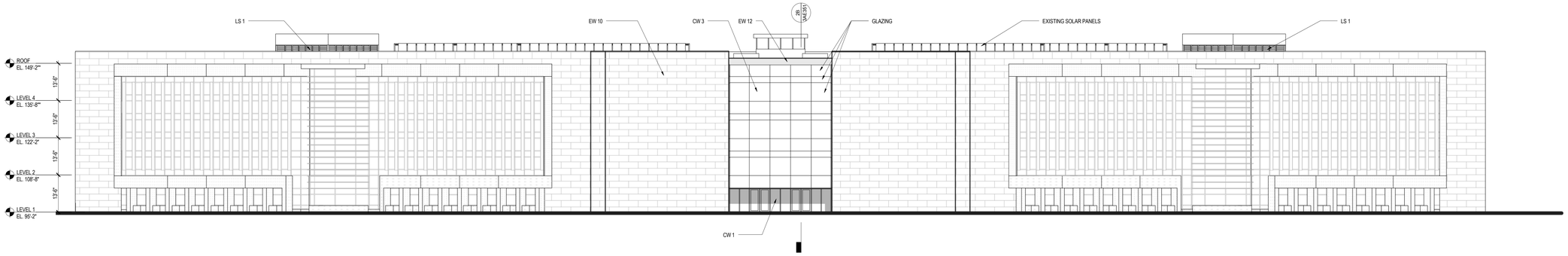
5E WEST WING - NORTHWEST ELEVATION
1/16" = 1'-0"



6C SOUTHWEST ELEVATION
1/16" = 1'-0"



7B SOUTH ELEVATION
1/16" = 1'-0"

GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

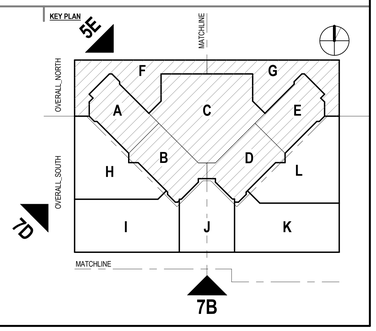
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

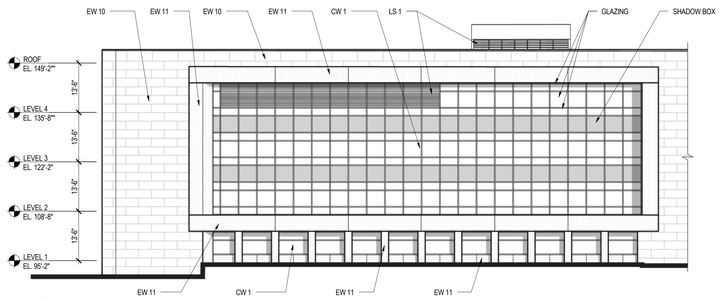
PROJECT NUMBER	203619
ORIGINAL ISSUE	06/05/14 -
PKG. IDENTIFIER	3

EXTERIOR ELEVATIONS - NORTH

SCALE: As indicated

3AE205

Schematic Design

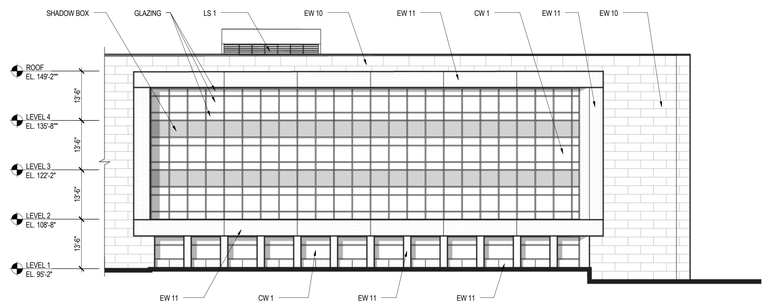


5E EAST WING - NORTHWEST ELEVATION
1/16" = 1'-0"

2E ADDITION EAST ELEVATION
1/16" = 1'-0"

7C NORTH ELEVATION
1/16" = 1'-0"

5B ADDITION WEST ELEVATION
1/16" = 1'-0"



3B WEST WING - NORTHEAST ELEVATION
1/16" = 1'-0"

GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX.WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
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RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
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LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

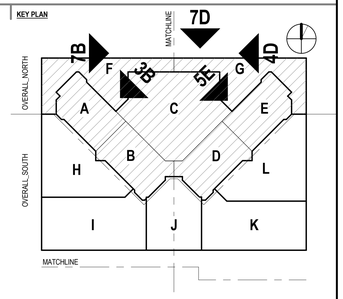
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 06/05/14 -
PKG. IDENTIFIER 3

EXTERIOR ELEVATIONS - NORTH

SCALE As indicated

3AE206

Schematic Design

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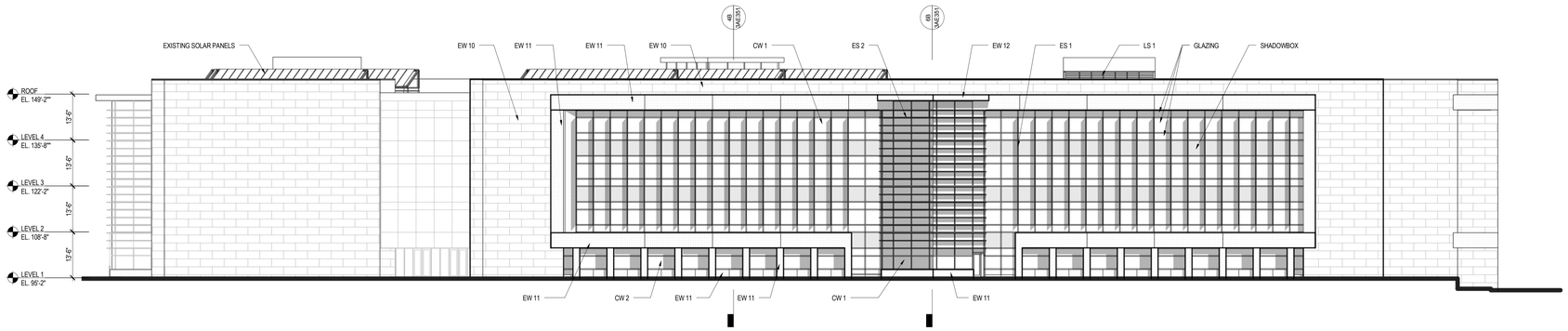
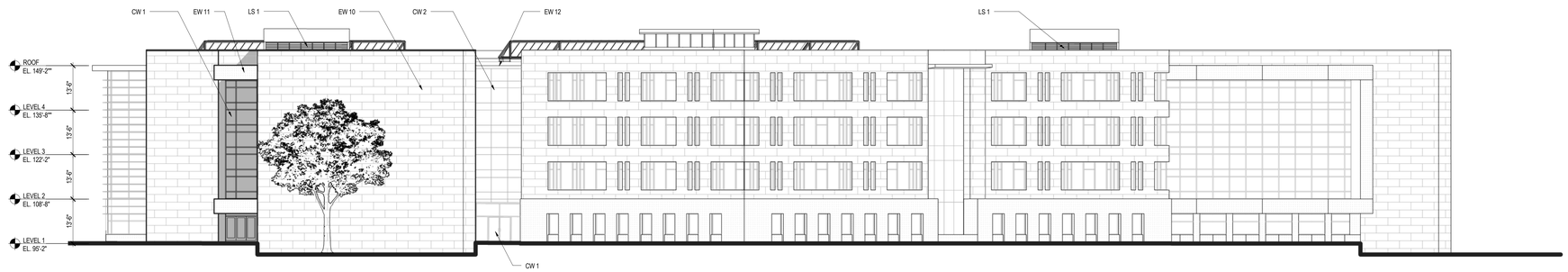


6C SOUTHEAST ELEVATION
1/16" = 1'-0"



6B EAST WING - NORTHEAST ELEVATION
1/16" = 1'-0"

GENERAL NOTES

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ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
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AFS	ALUMINUM FRAMED SKYLIGHT

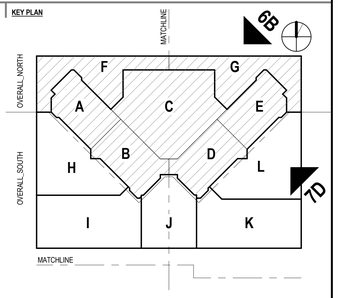
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
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1	10/30/2014	SD OWNER REVIEW

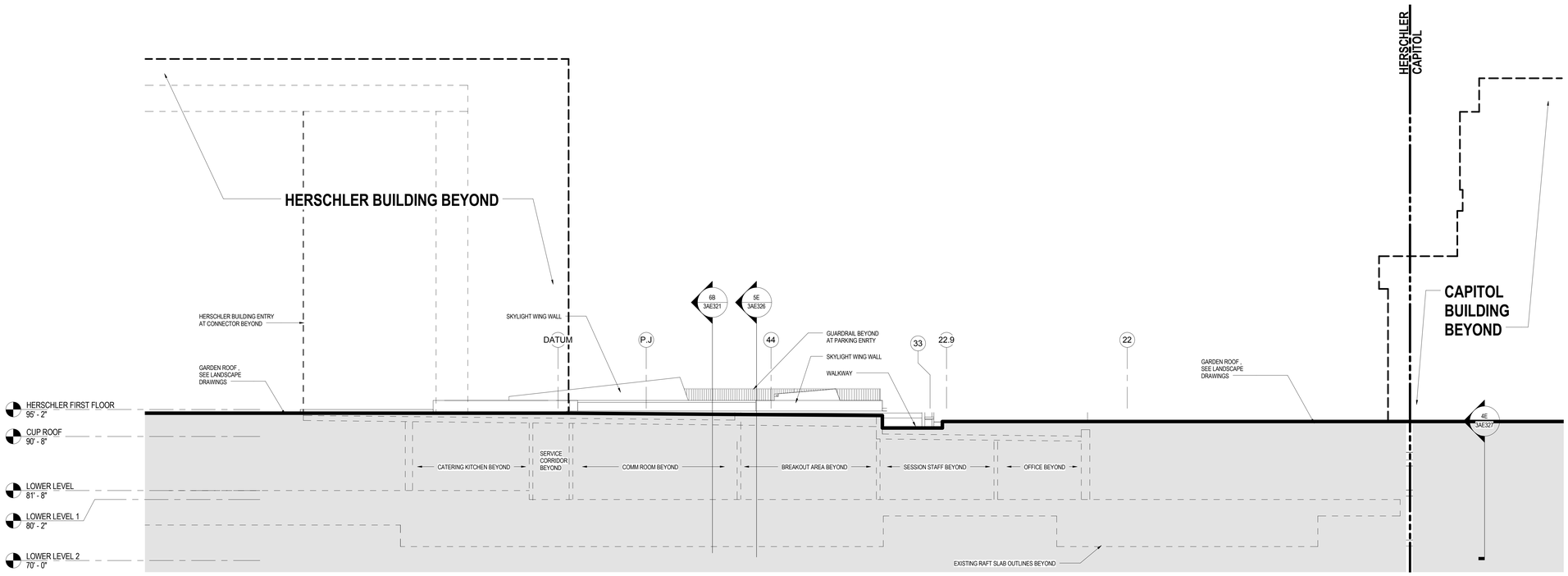
PROJECT NUMBER	203619
ORIGINAL ISSUE	06/05/14 -
PKG. IDENTIFIER	3

EXTERIOR ELEVATIONS - NORTH

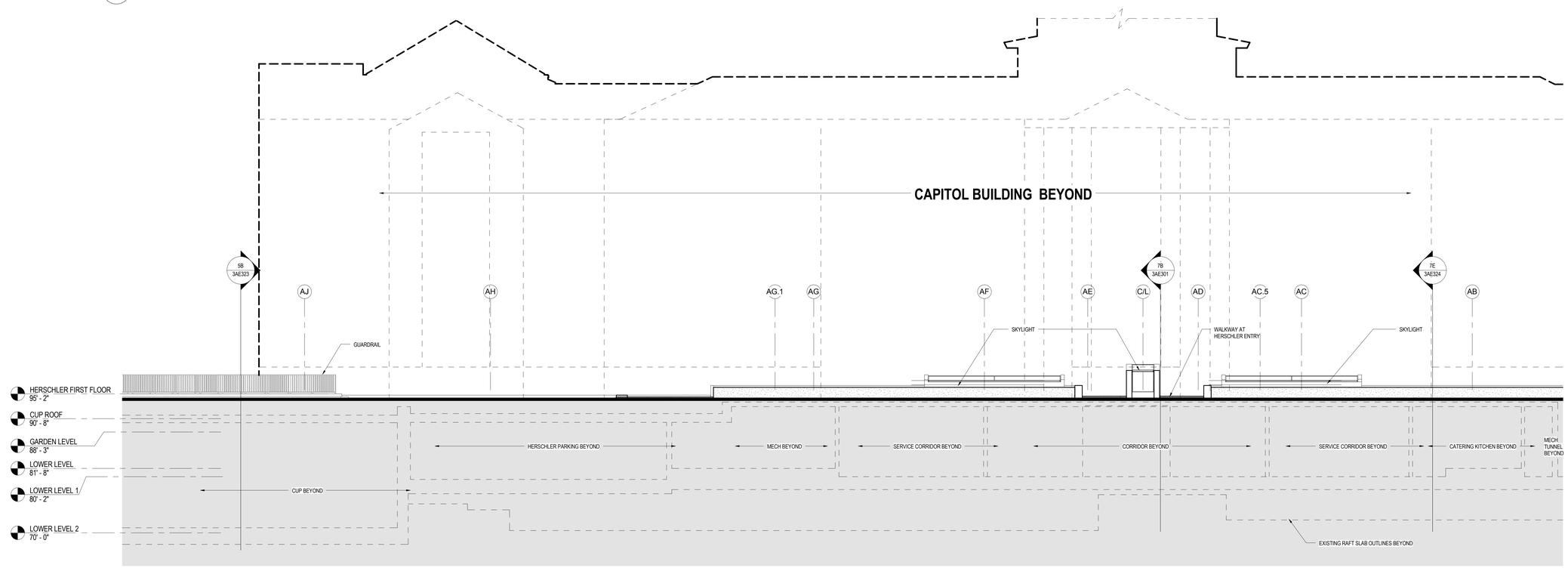
SCALE: As indicated

3AE207

Schematic Design



7E CUP_CON EXTERIOR ELEVATION_WEST
1/8" = 1'-0"



7B CUP_CON EXTERIOR ELEVATION_NORTH
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

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CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
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ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

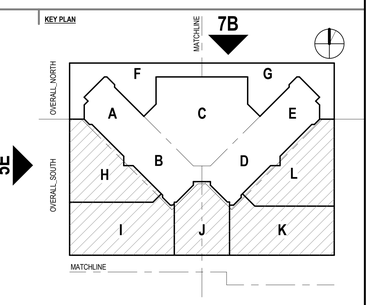
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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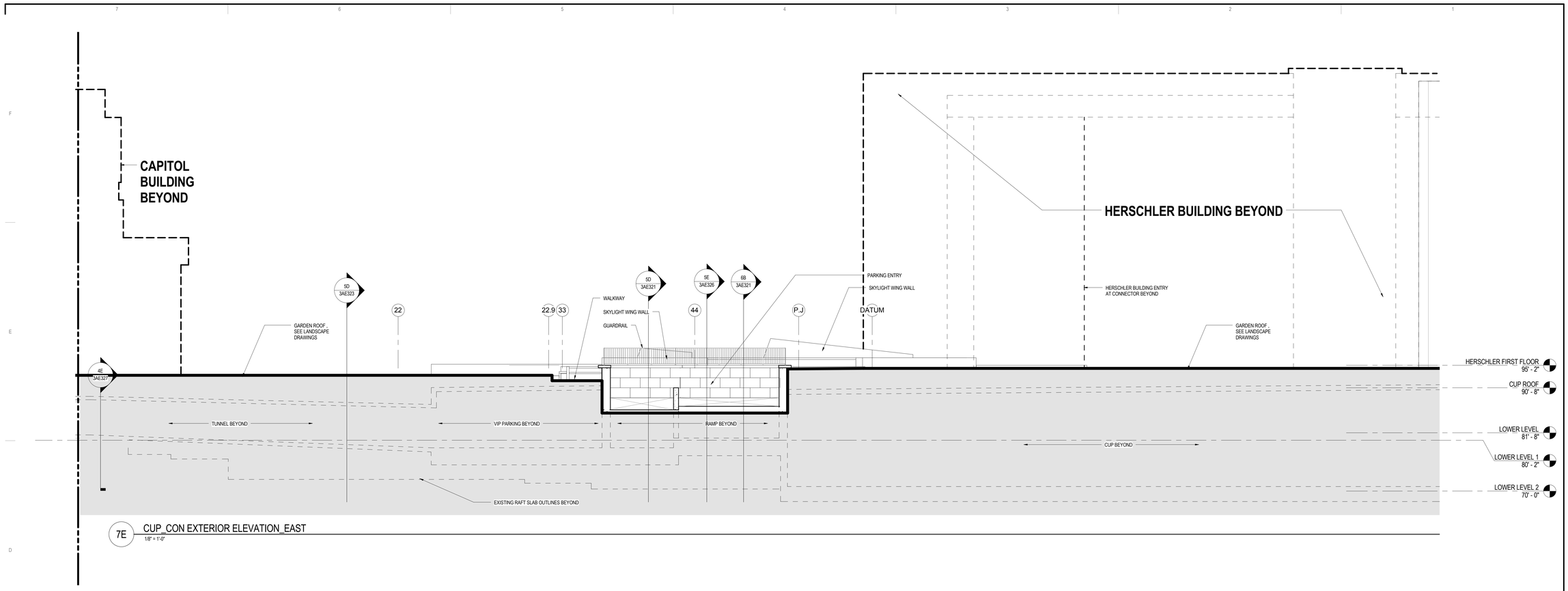
PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

EXTERIOR ELEVATIONS - SOUTH

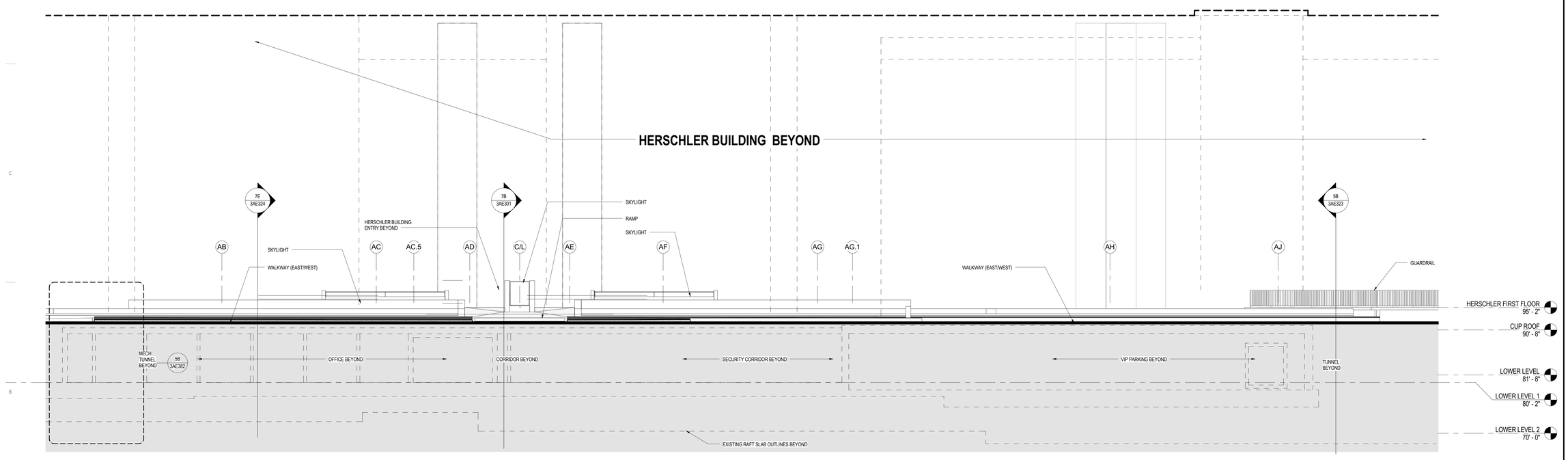
SCALE As indicated

3AE231

Schematic Design



7E CUP_CON EXTERIOR ELEVATION_EAST
1/8" = 1'-0"



7B CUP_CON EXTERIOR ELEVATION_SOUTH
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

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AFS	

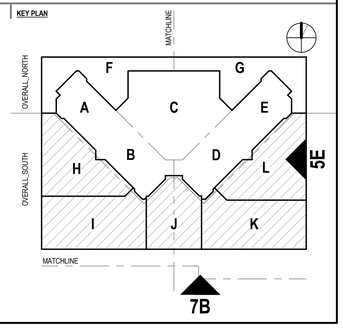
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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ORIGINAL ISSUE

PKG. IDENTIFIER 3

EXTERIOR ELEVATIONS - SOUTH

SCALE As indicated

3AE232

Schematic Design

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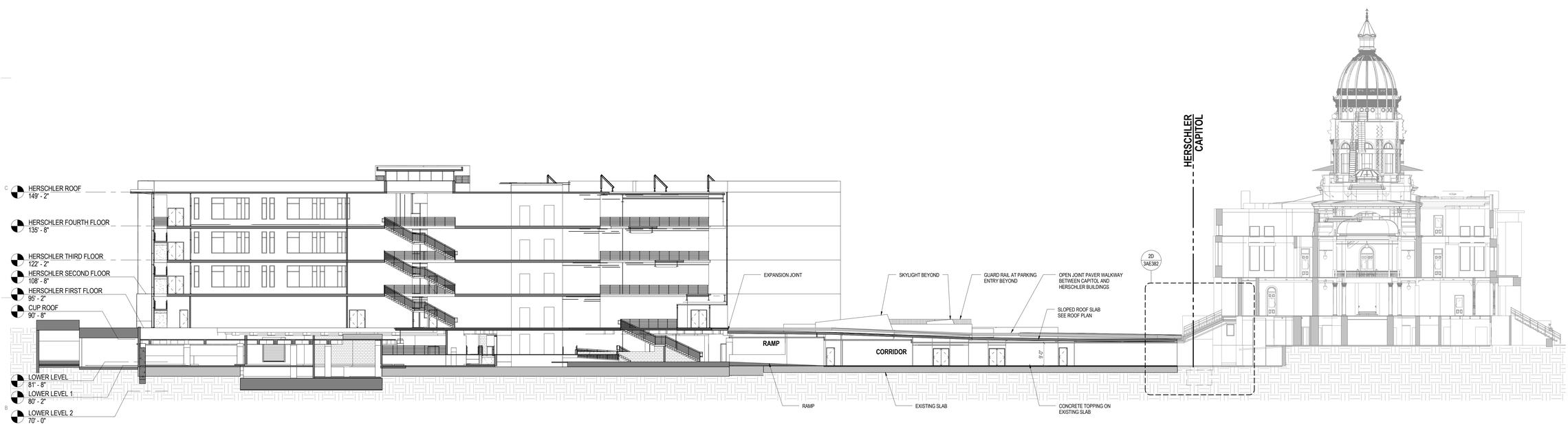


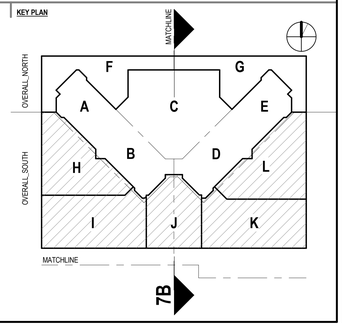
7B OVERALL BUILDING SECTION - NORTH SOUTH THROUGH CAPITOL SQUARE
1/16" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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Construction Management

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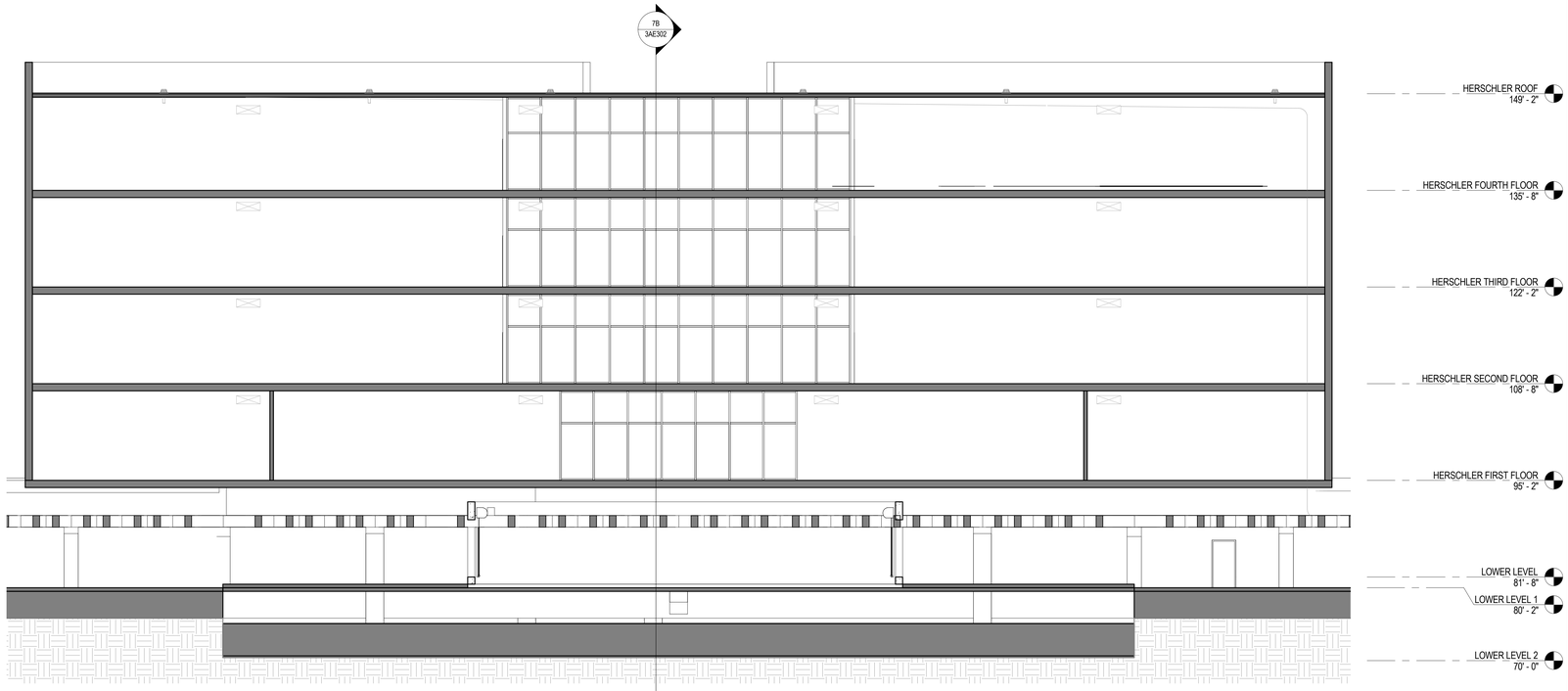
OVERALL BUILDING SECTIONS

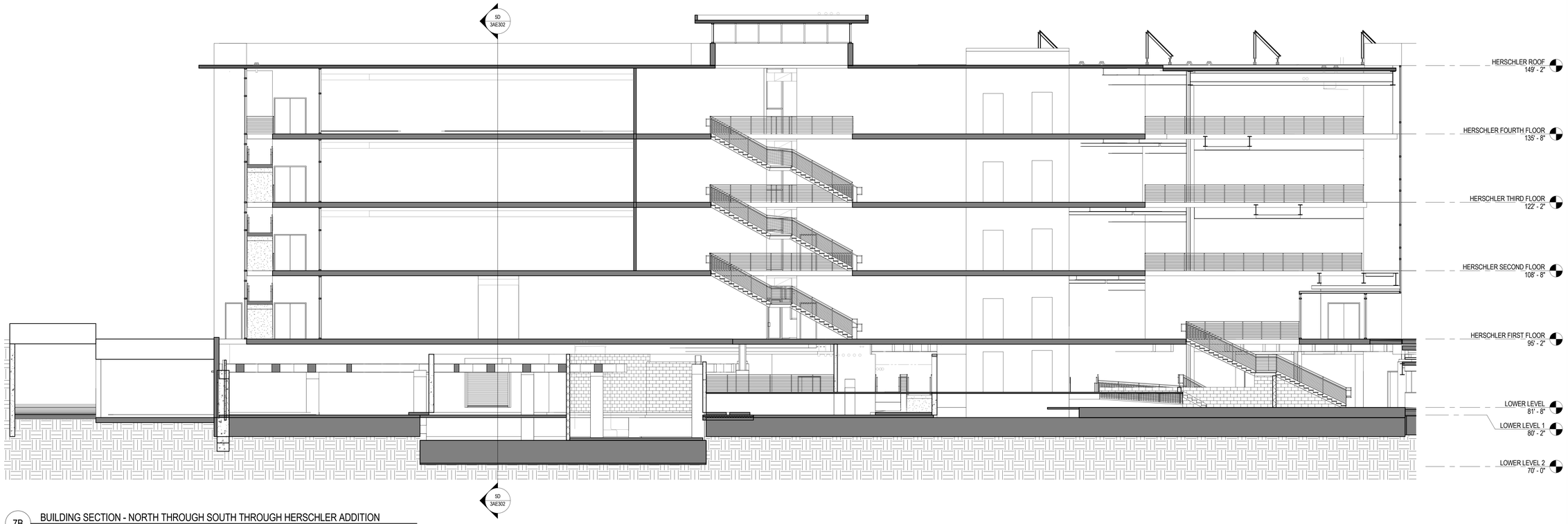
SCALE 1/16" = 1'-0"

3AE301

Schematic Design



5D BUILDING SECTION - EAST WEST THROUGH HERSCHLER ADDITION
1/8" = 1'-0"



7B BUILDING SECTION - NORTH THROUGH SOUTH THROUGH HERSCHLER ADDITION
1/8" = 1'-0"

GENERAL NOTES | CONSTRUCTION NOTES | GRAPHIC LEGEND | KEY PLAN

State of Wyoming

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OVERALL BUILDING SECTIONS

SCALE 1/8" = 1'-0"

3AE302

Schematic Design

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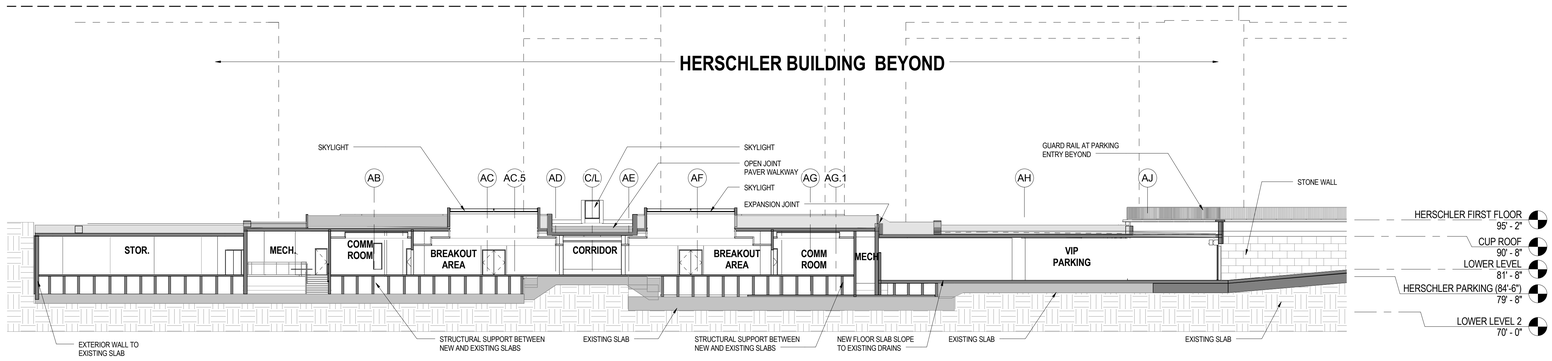
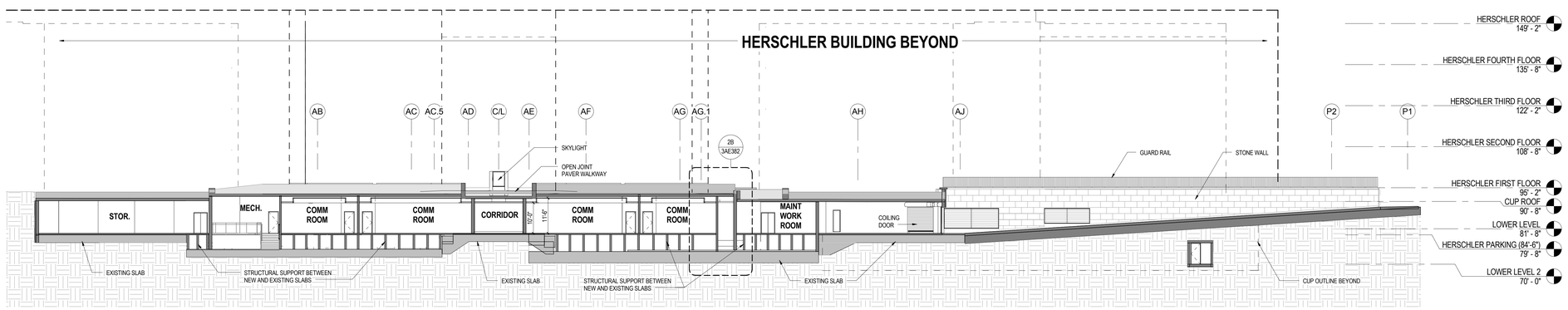


5D OVERALL BUILDING SECTION - WEST THROUGH EAST
1/16" = 1'-0"



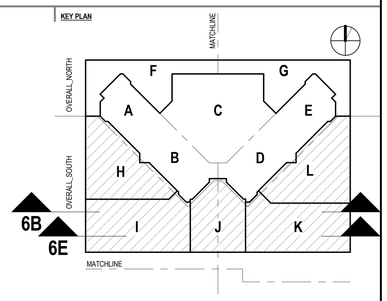
6B OVERALL BUILDING SECTION - WEST THROUGH EAST
1/16" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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BUILDING
SECTIONS - SOUTH

SCALE 1/16" = 1'-0"

3AE321

Schematic Design

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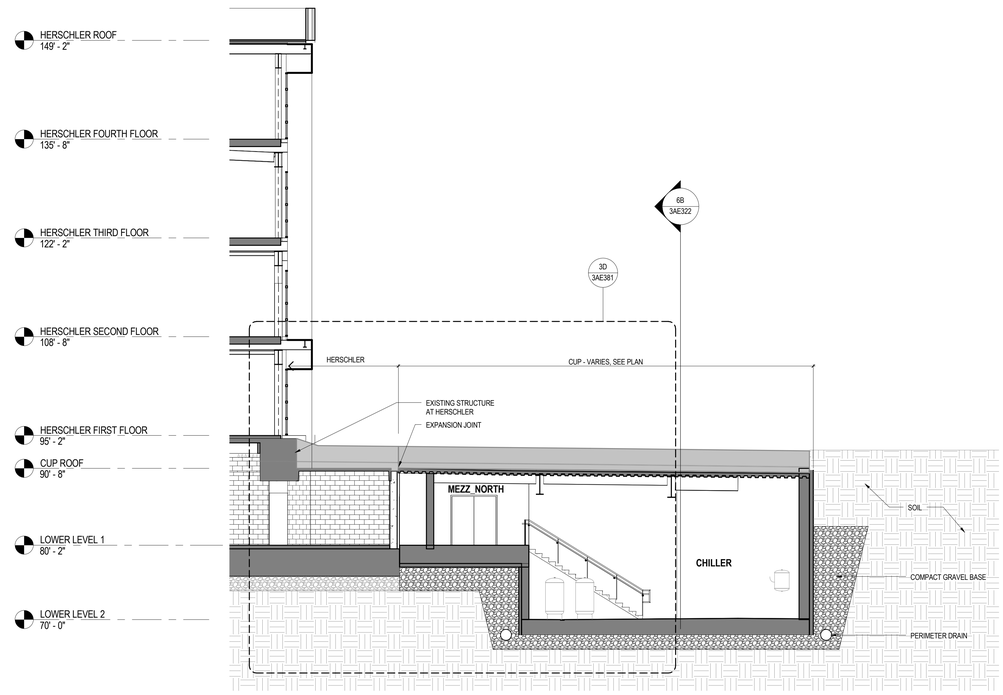
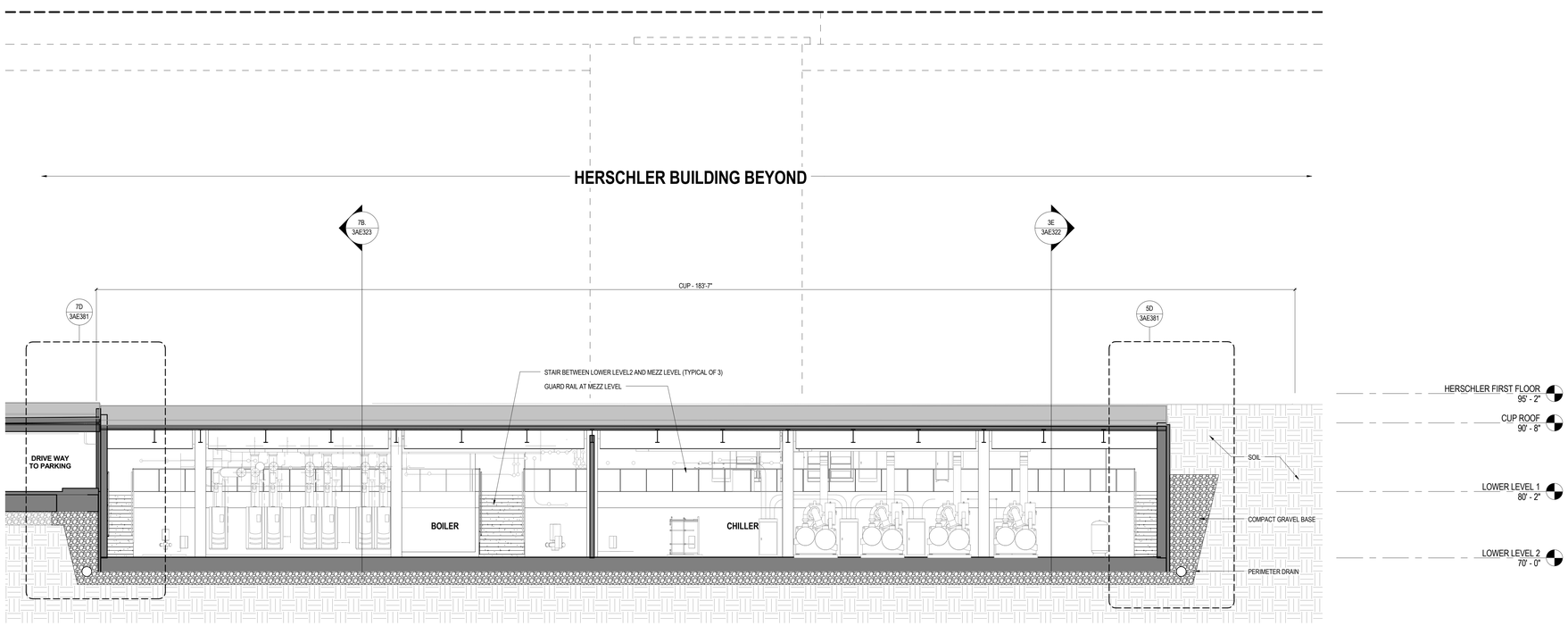


3E BUILDING SECTION - EAST1 - 2
1/8" = 1'-0"



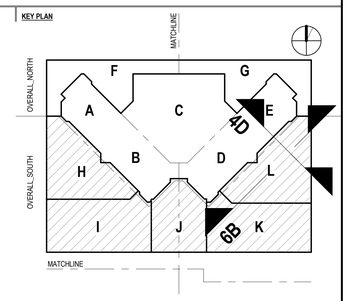
6B BUILDING SECTION - EAST1 - 1
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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BUILDING SECTIONS - SOUTH

SCALE 1/8" = 1'-0"

3AE322

Schematic Design

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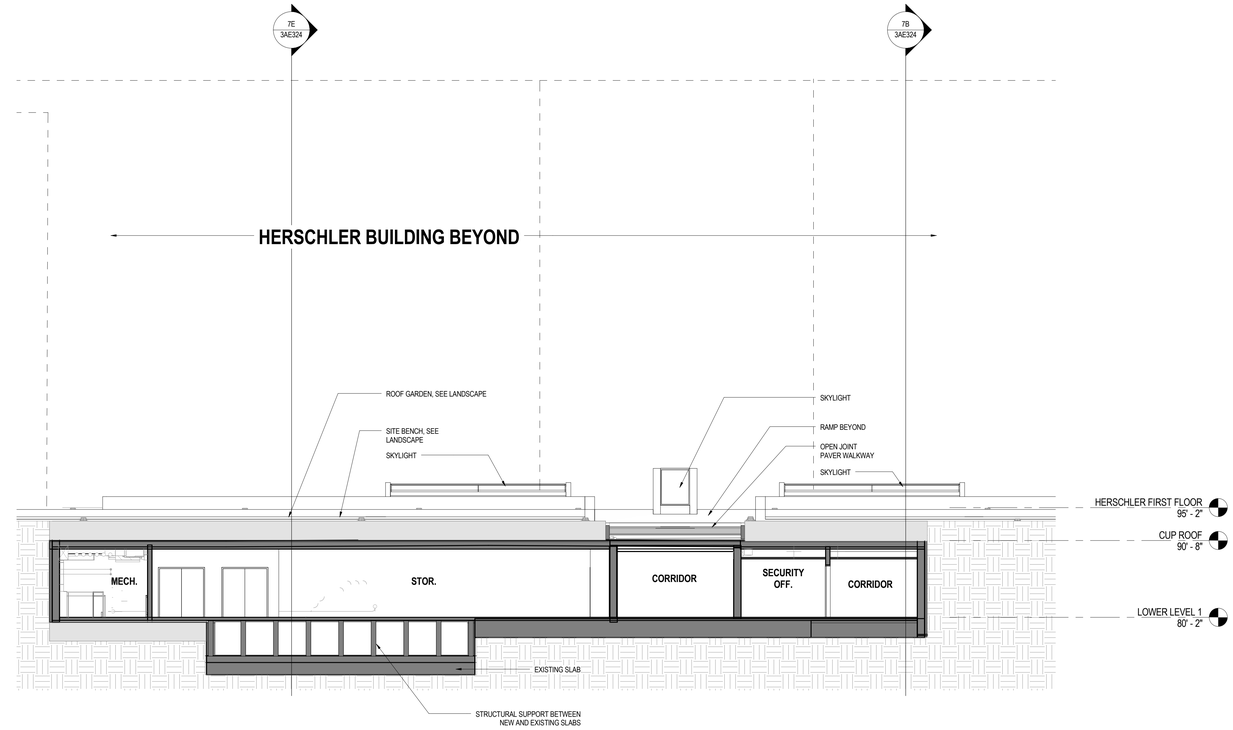
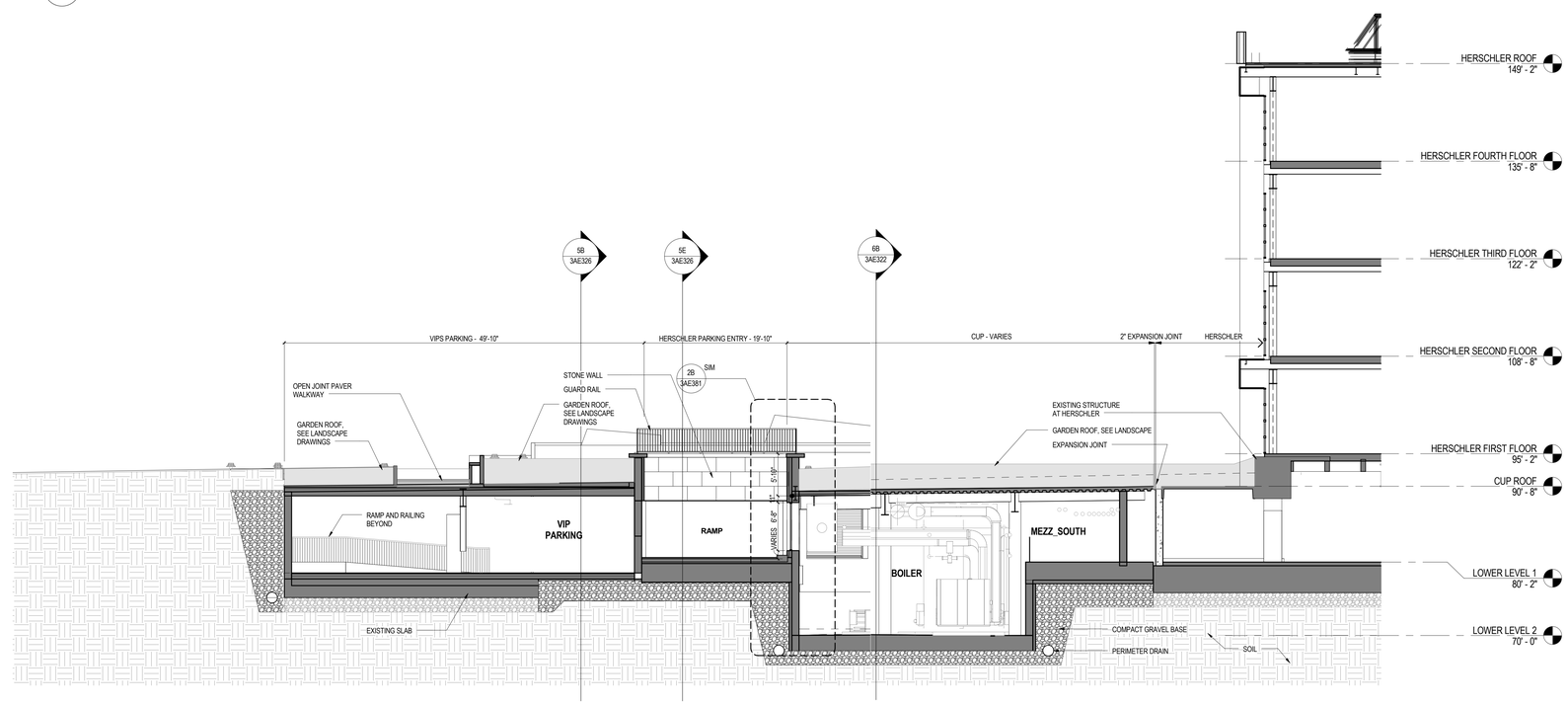


5D BUILDING SECTION - CENTER - 1
1/8" = 1'-0"



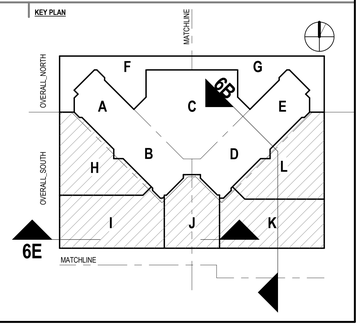
5B BUILDING SECTION - EAST1/CENTER - 1
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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BUILDING SECTIONS - SOUTH

SCALE 1/8" = 1'-0"

3AE323

Schematic Design

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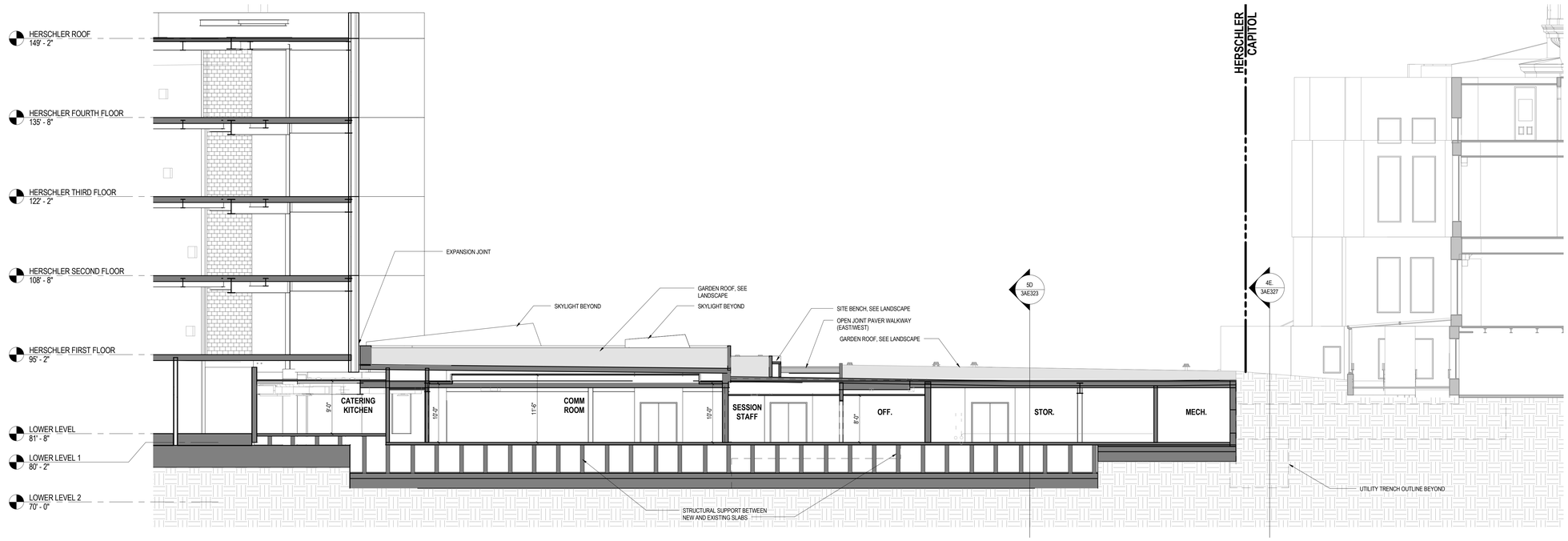
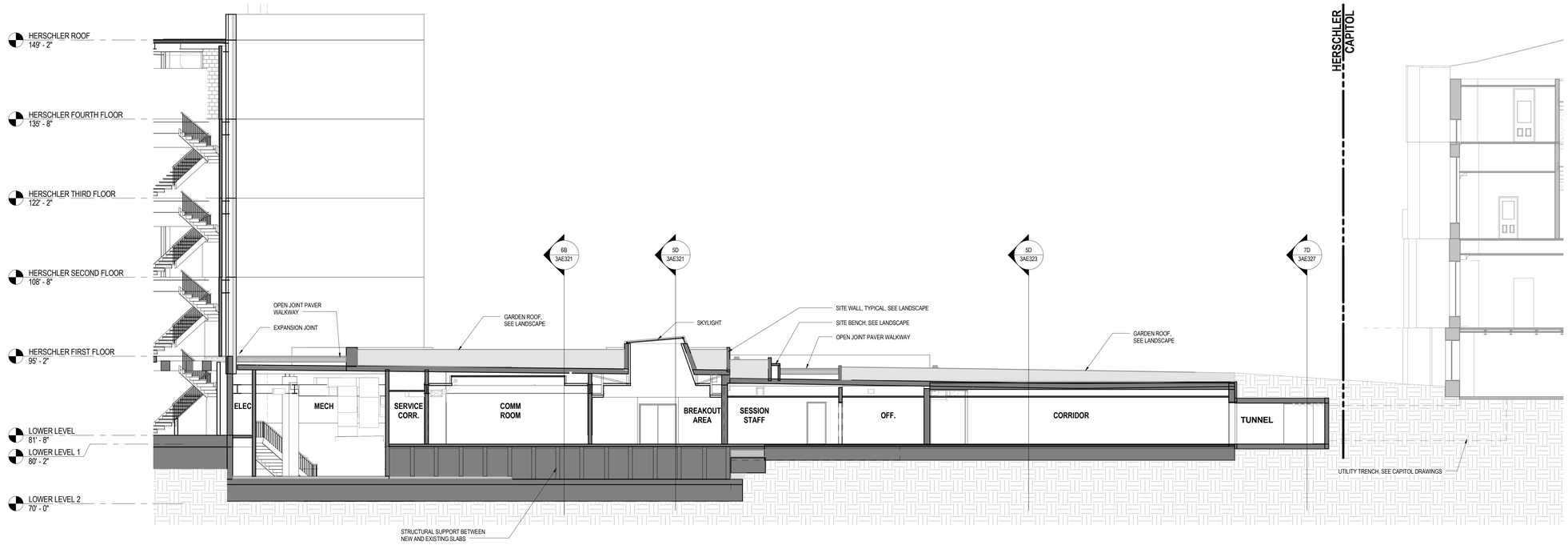


7E BUILDING SECTION - CENTER - 2
1/8" = 1'-0"



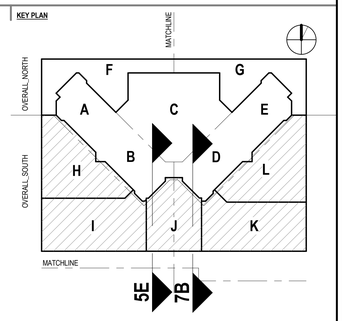
7B BUILDING SECTION - CENTER - 3
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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BUILDING SECTIONS - SOUTH

SCALE 1/8" = 1'-0"

3AE324

Schematic Design

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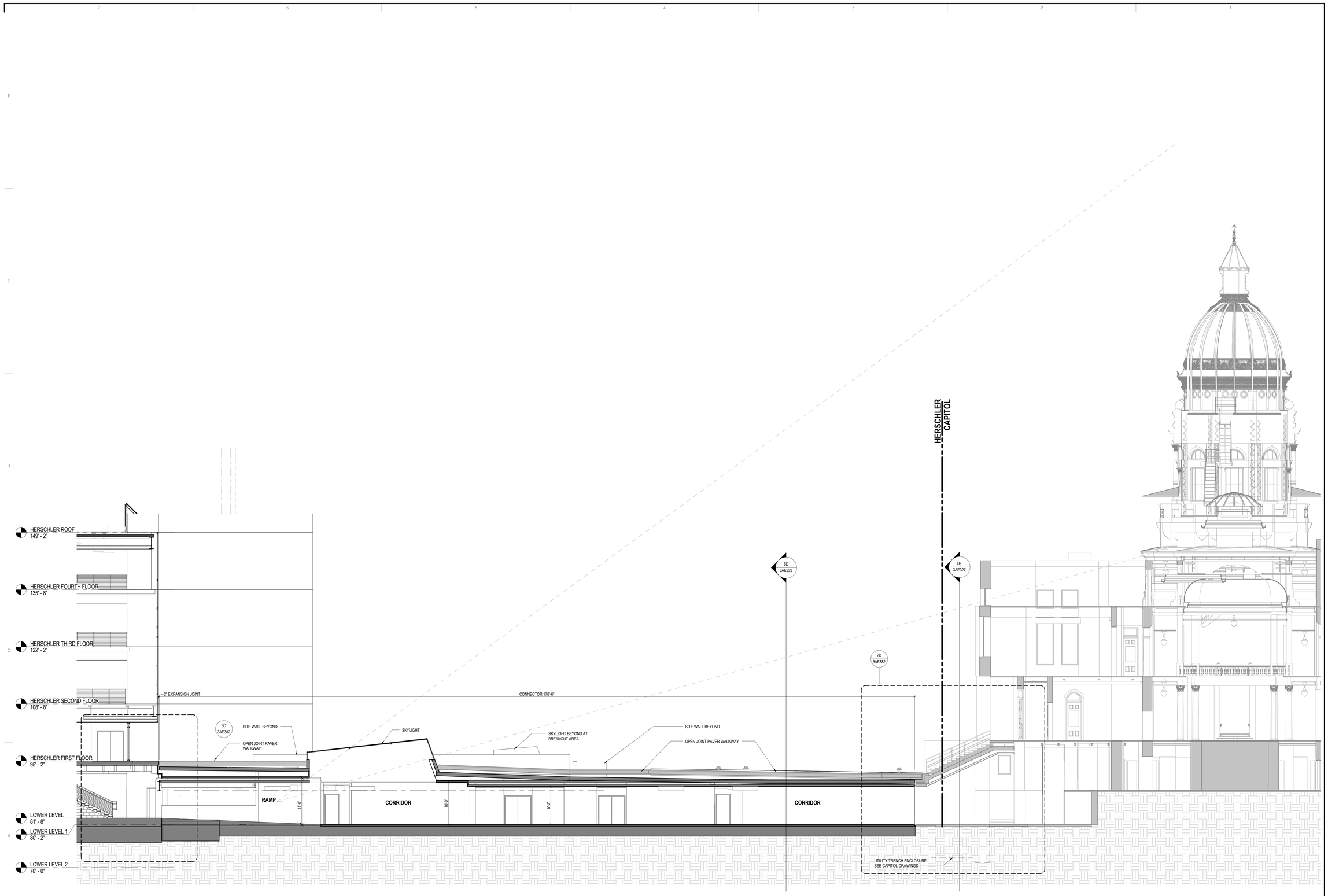


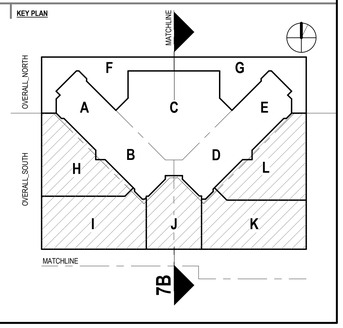
7B BUILDING SECTION_NORTH / SOUTH
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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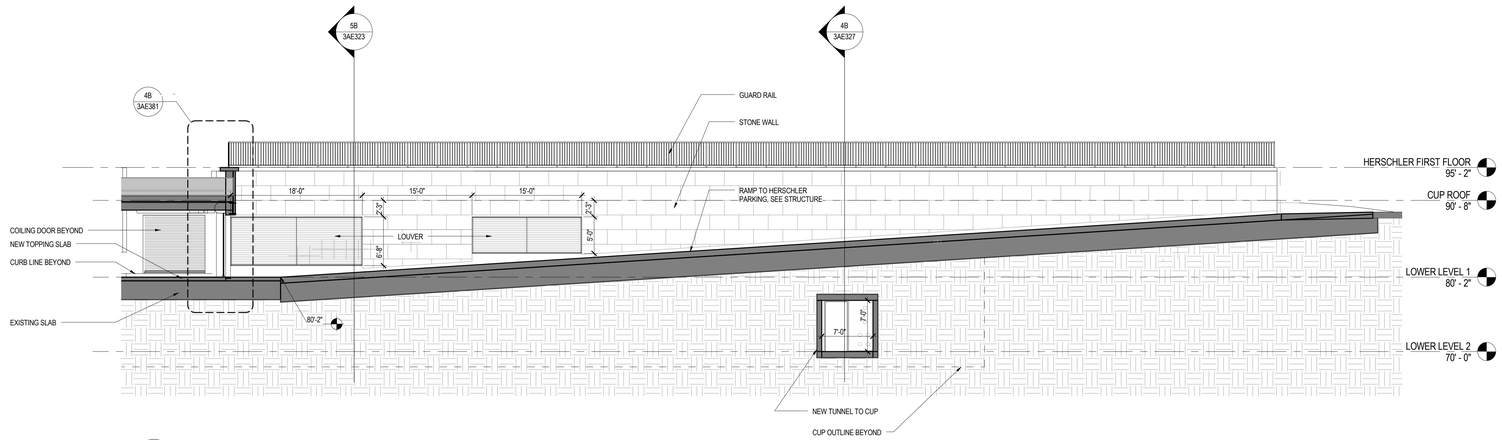
BUILDING SECTIONS - SOUTH

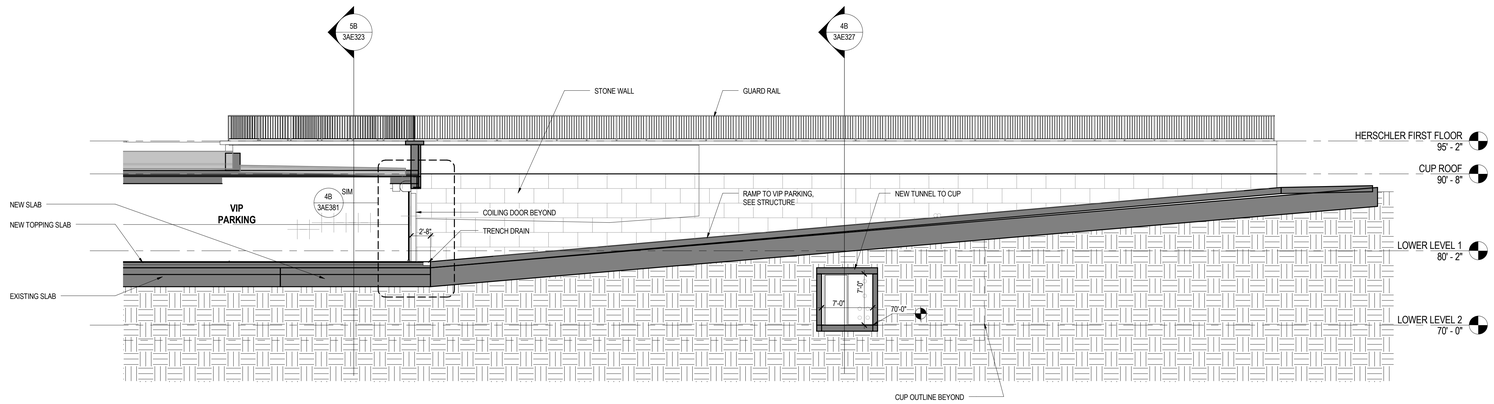
SCALE 1/8" = 1'-0"

3AE325

Schematic Design



5E EAST RAMP SECTION TO HERSCHLER PARKING
1/8" = 1'-0"



5B EAST RAMP SECTION TO VIPS PARKING
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

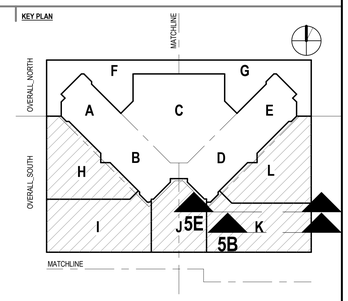
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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BUILDING SECTIONS - EAST RAMP

SCALE: As indicated

3AE326

Schematic Design

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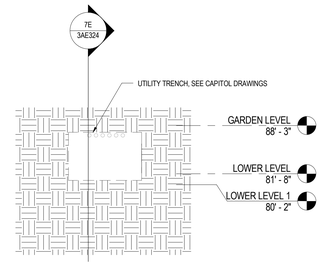
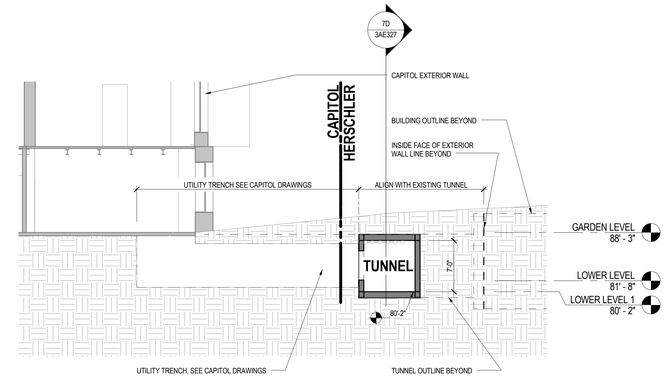
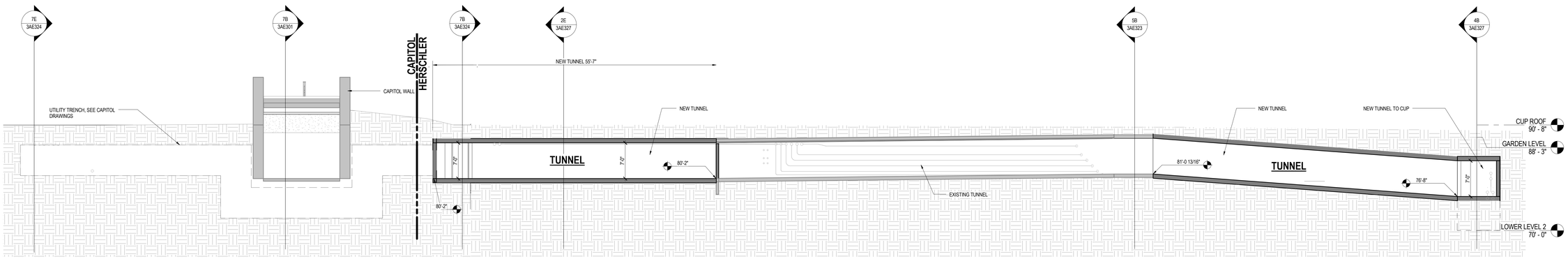


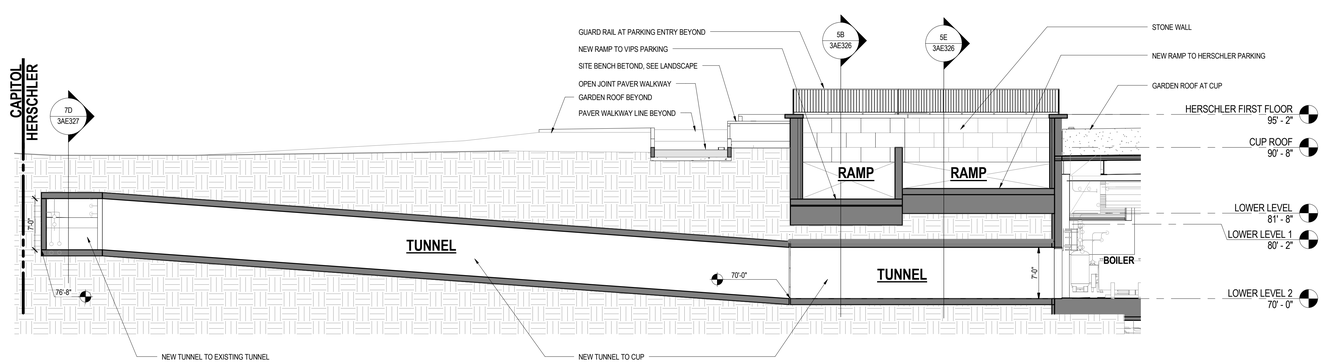
4E TYPICAL UTILITY TRENCH SECTION
1/8" = 1'-0"



2E TUNNEL/UTILITY TRENCH SECTION BETWEEN CONNECTOR AND CAPITOL
1/8" = 1'-0"



7D BUILDING SECTION AT SOUTH TUNNEL
1/8" = 1'-0"



4B BUILDING SECTION AT EAST TUNNEL
1/8" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

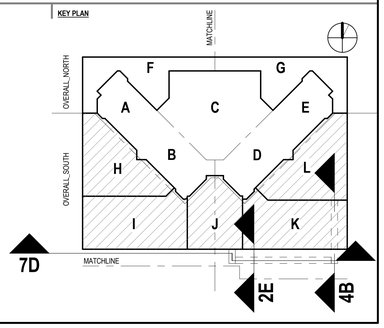
GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN



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BUILDING SECTIONS - TUNNEL

SCALE As indicated

3AE327

Schematic Design

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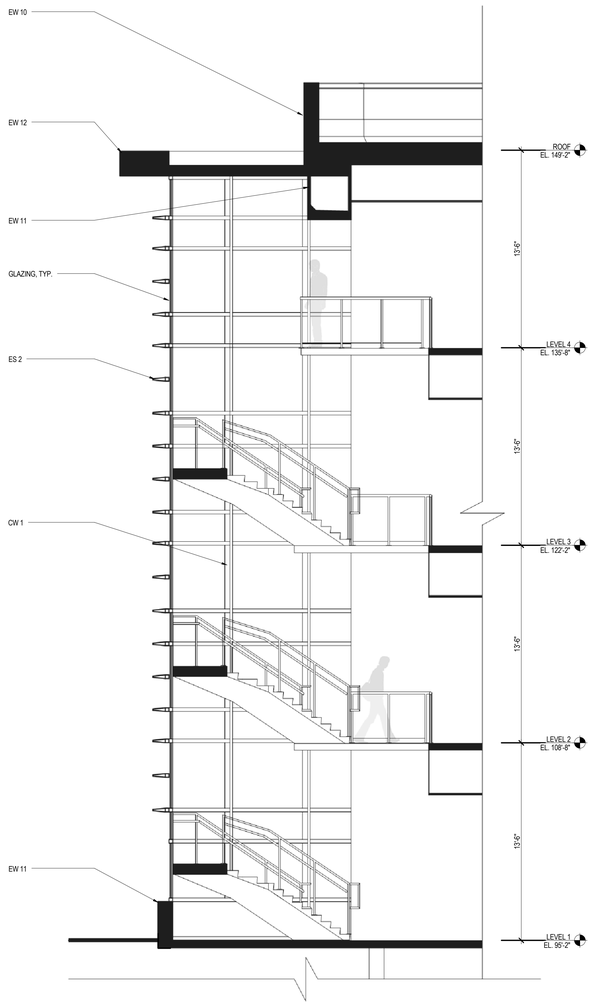
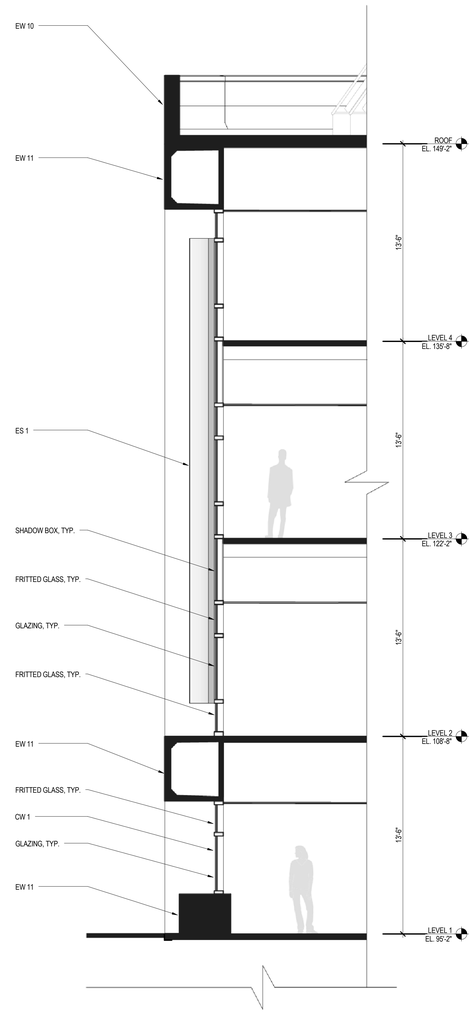
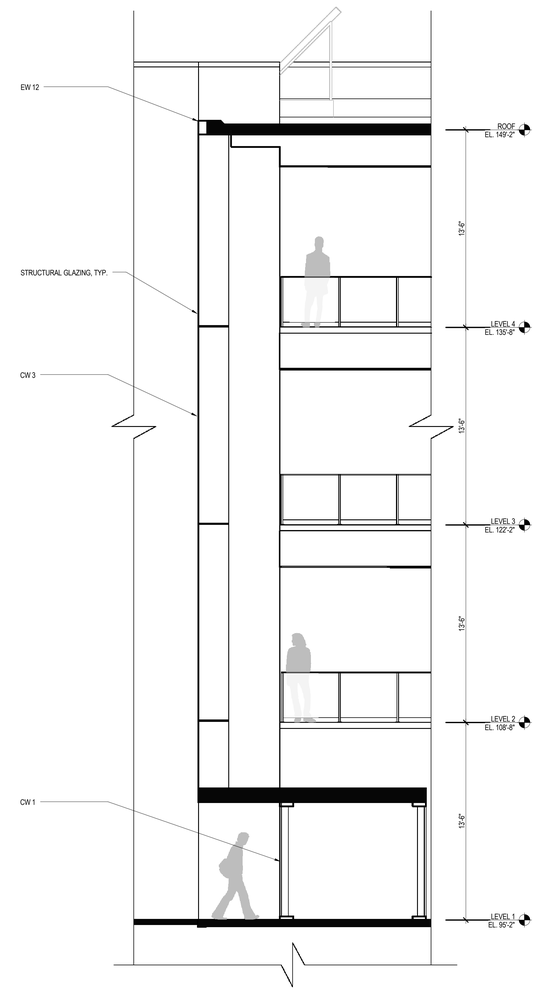


6B WALL SECTION - SOUTH STAIR
1/4" = 1'-0"



4B WALL SECTION - HERSCHLER CURTAIN WALL TYP.
1/4" = 1'-0"



2B WALL SECTION - HERSCHLER SOUTH ATRIUM
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.

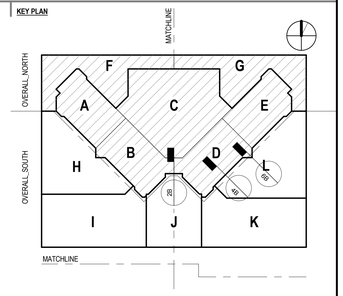
CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX. WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN



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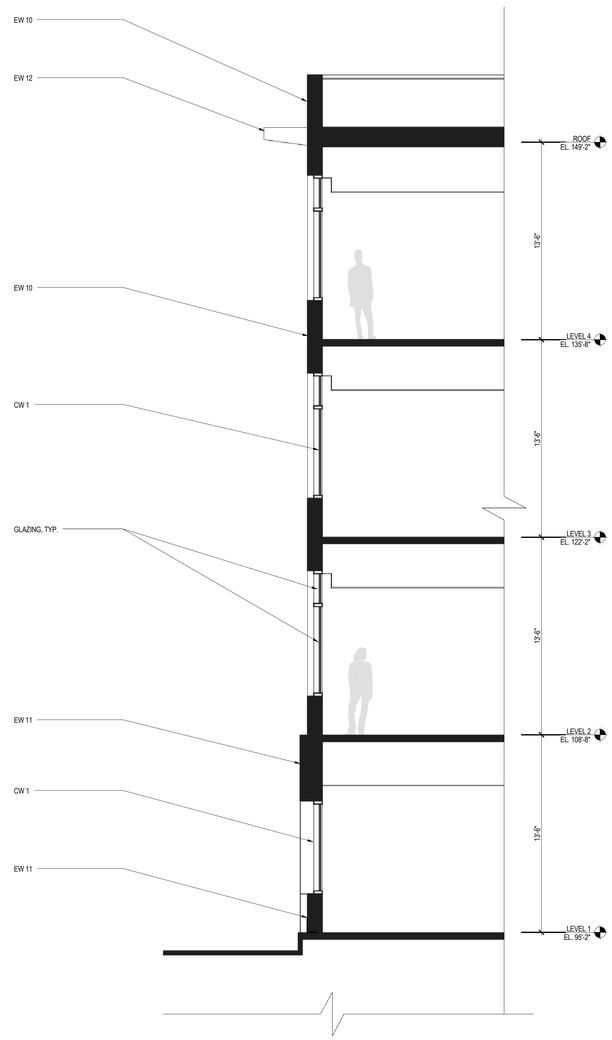
EXTERIOR WALL SECTIONS / 3D - NORTH

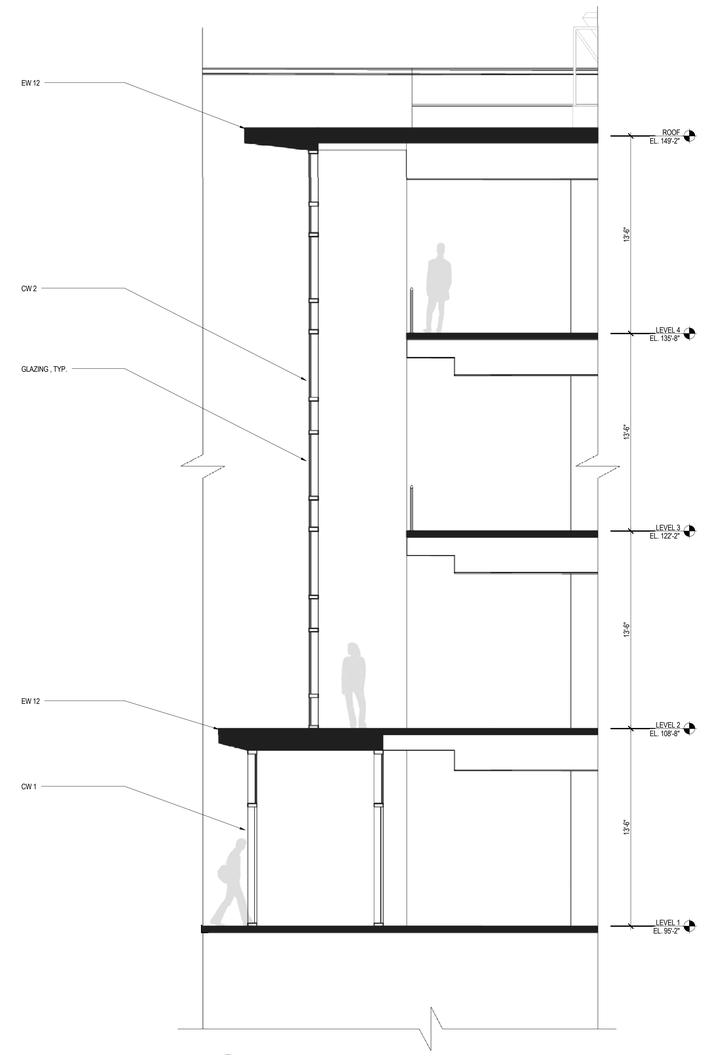
SCALE As indicated

3AE351

Schematic Design



5B WALL SECTION - ADDITION EXTERIOR WALL TYP.
1/4" = 1'-0"



2B WALL SECTION - CONNECTOR CURTAIN WALL TYP.
1/4" = 1'-0"

GENERAL NOTES

1. REFER TO OWNER PROVIDED HERSCHLER CONSTRUCTION DOCUMENTS FOR ACCURATE EXISTING BUILDING INFORMATION.

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
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PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
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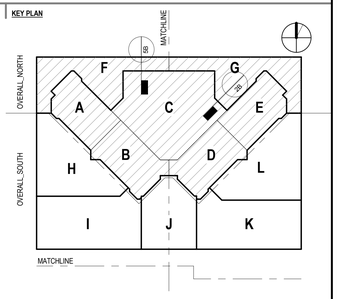
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN



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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

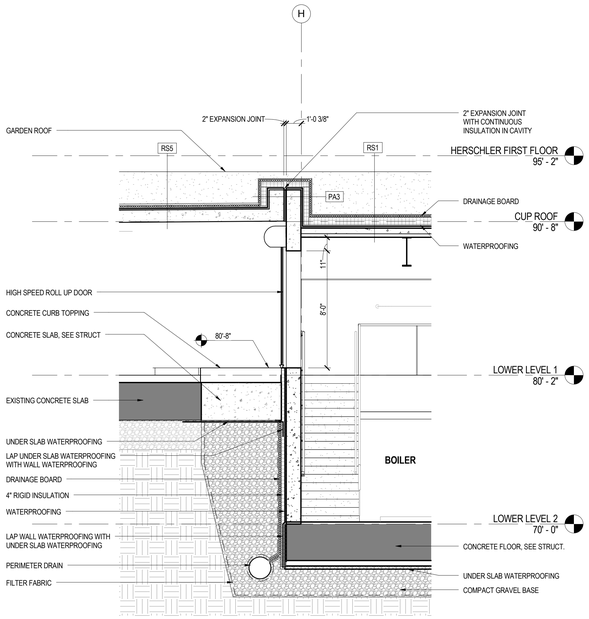
PROJECT NUMBER	203619
ORIGINAL ISSUE	06/06/14 -
PKG. IDENTIFIER	3

EXTERIOR WALL SECTIONS / 3D - NORTH

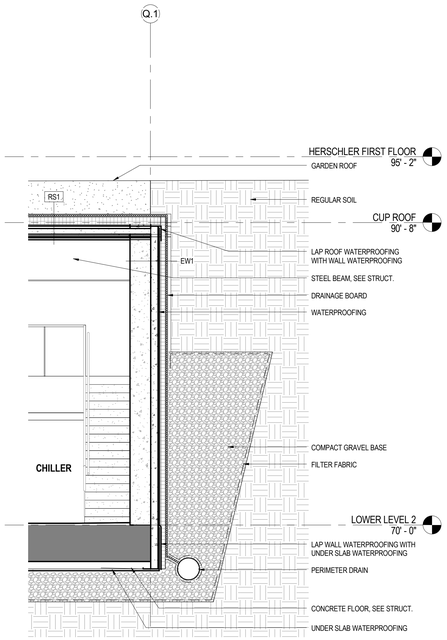
SCALE: As indicated

3AE352

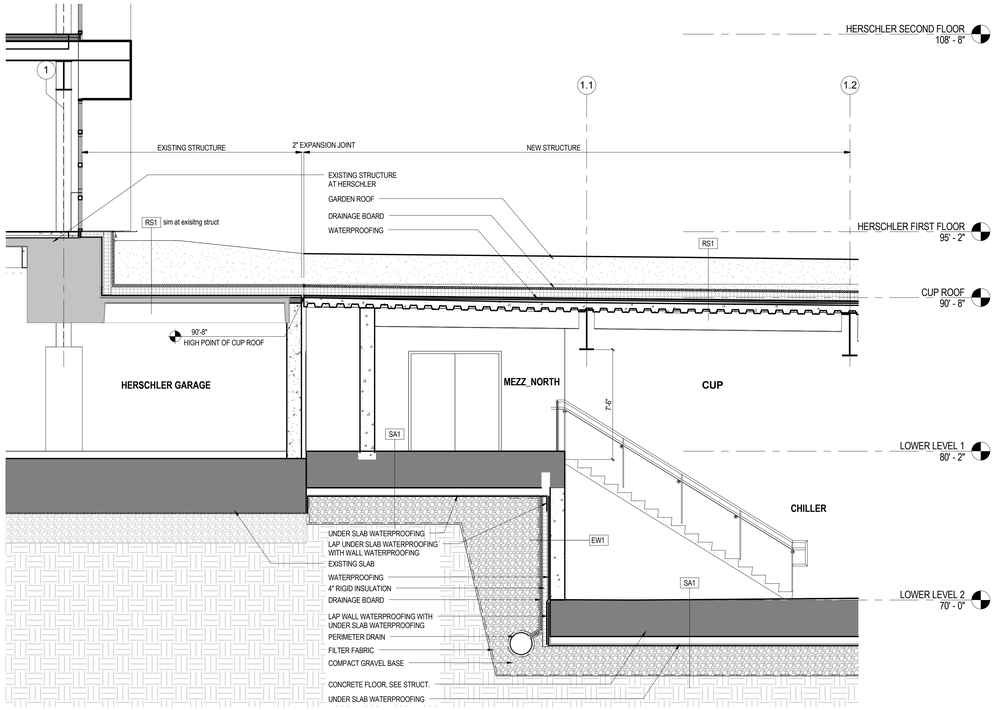
Schematic Design



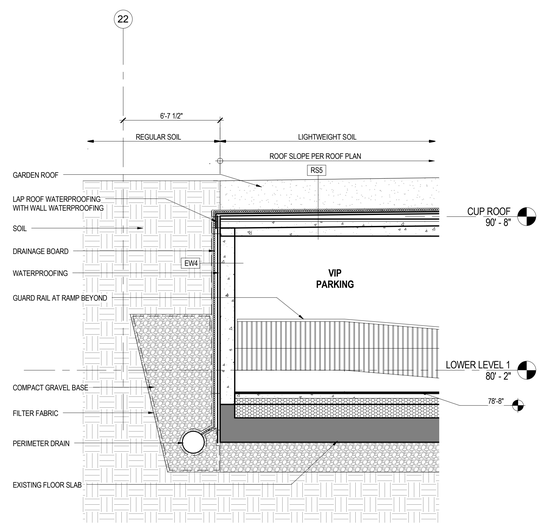
7D WALL SECTION AT EAST RAMP AND CUP
1/4" = 1'-0"



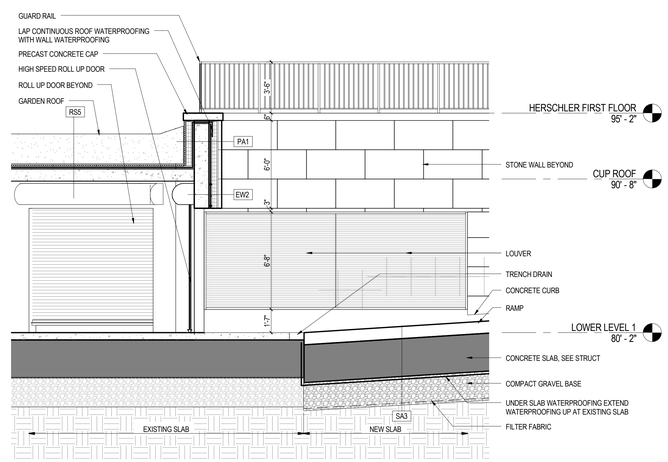
5D WALL SECTION AT CUP
1/4" = 1'-0"



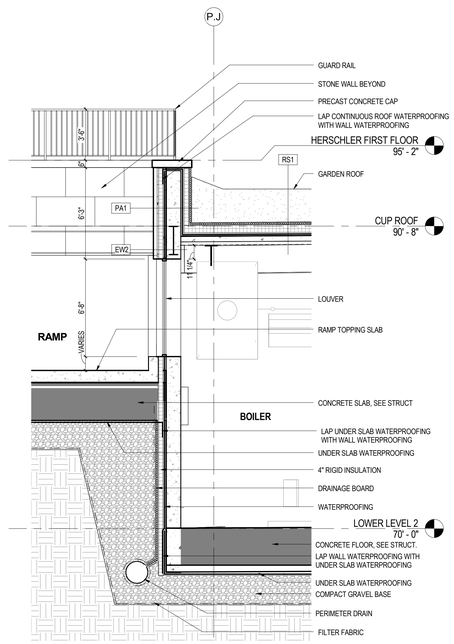
3D WALL SECTION AT HERSCHLER GARAGE AND CUP
1/4" = 1'-0"



6B WALL SECTION AT VIP PARKING
1/4" = 1'-0"



4B WALL SECTION AT EAST RAMP
1/4" = 1'-0"



2B WALL SECTION AT CUP AND EAST RAMP
1/4" = 1'-0"

GENERAL NOTES

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3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
4. REFER TO DEMOLITION DRAWINGS, IF ANY, FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
5. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
6. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
7. REFER TO EQUIPMENT DRAWINGS FOR ADDITIONAL EQUIPMENT SPECIFIC INFORMATION.
8. REFER TO INTERIOR FINISH DRAWINGS FOR ADDITIONAL INTERIOR FINISH SPECIFIC INFORMATION.
9. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION.
10. REFER TO MEP DRAWINGS FOR ADDITIONAL MEP SPECIFIC INFORMATION.
11. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A" UNLESS NOTED OTHERWISE.
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19. REFER TO SHEET 3IN200 SERIES FOR INTERIOR ELEVATIONS.
20. REFER TO SHEET 3AE610 SERIES FOR TYPICAL PARTITION TYPES AND DETAILS.
21. REFER TO SHEET 3AE.___ FOR DOOR SCHEDULES.
22. REFER TO SHEET 3AE.___ FOR FIRE EXTINGUISSHER CABINET AND FIRE VALVE CABINET DETAILS.

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
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RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN

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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

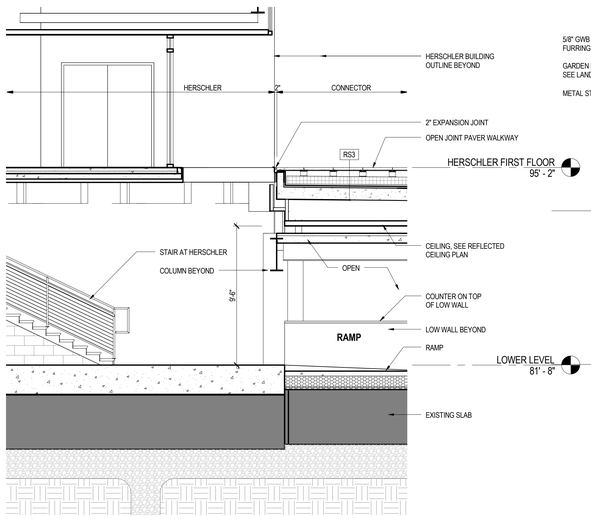
PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

EXTERIOR WALL SECTIONS - SOUTH

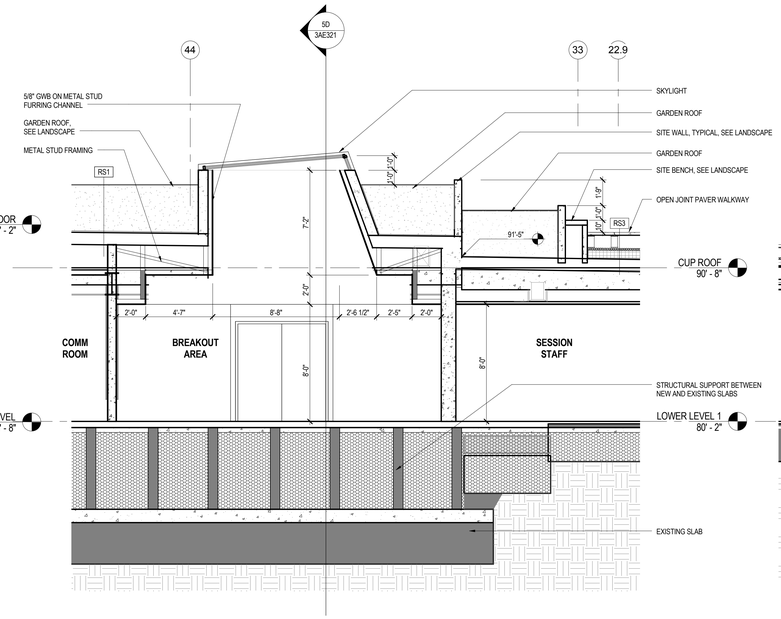
SCALE: As indicated

3AE381

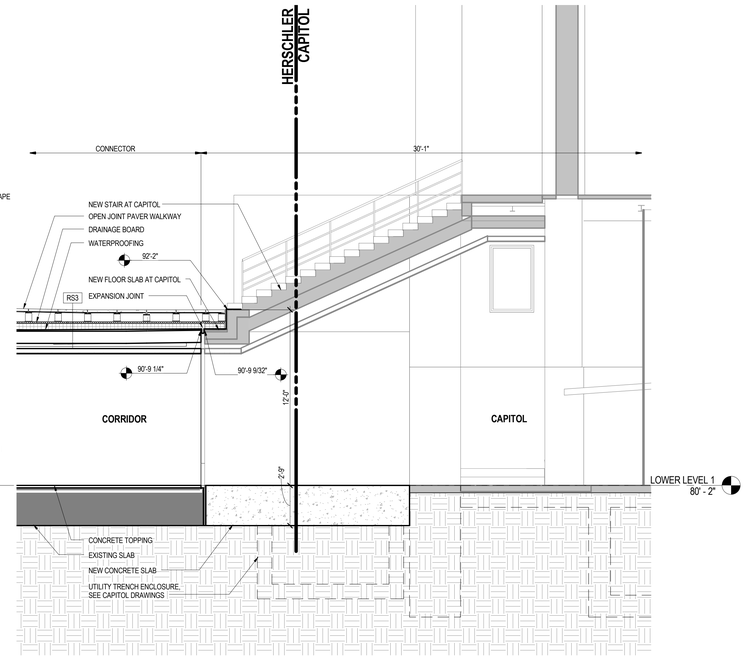
Schematic Design



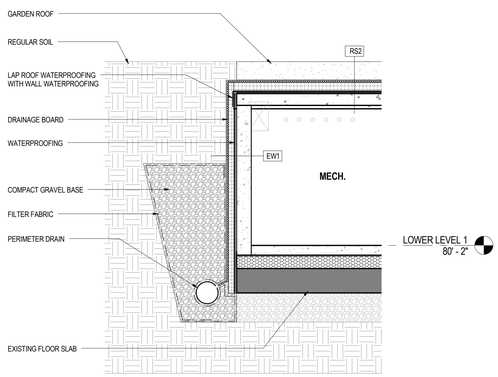
6D WALL SECTION AT EXISTING HERSCHLER ENTRANCE
1/4" = 1'-0"



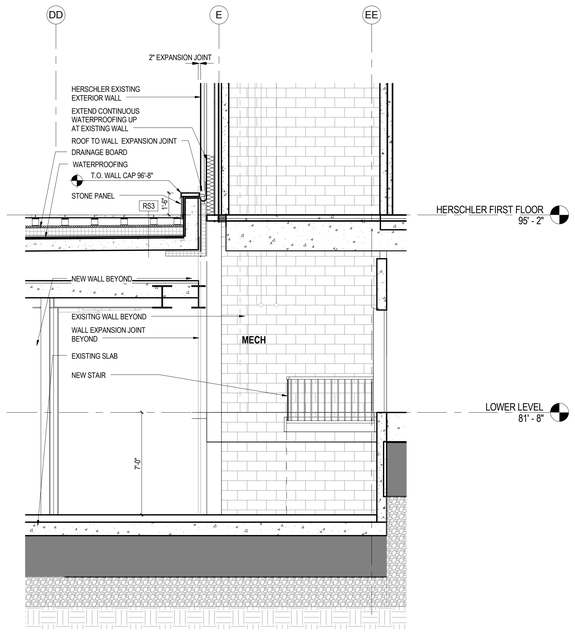
4D WALL SECTION AT SESSION STAFF AND BREAKOUT AREA
1/4" = 1'-0"



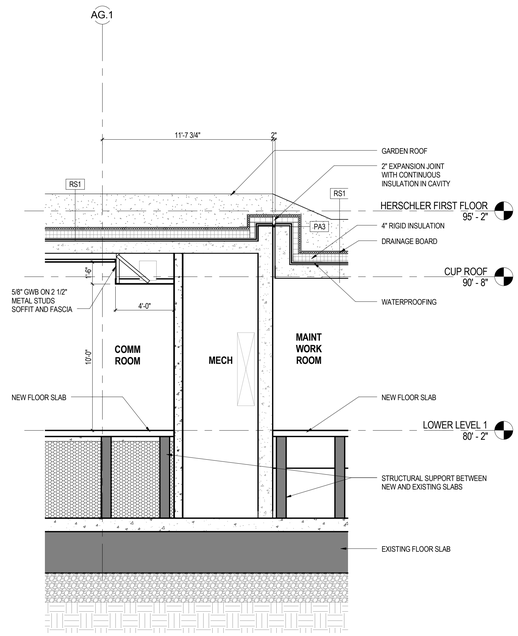
2D WALL SECTION AT CONNECTOR AND CAPITOL
1/4" = 1'-0"



5B WALL SECTION AT MECH TUNNEL
1/4" = 1'-0"



4B WALL SECTION AT MECH. ROOM
1/4" = 1'-0"



2B WALL SECTION AT COMM ROOM/VIP PARKING
1/4" = 1'-0"

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CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)	PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)	ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE ALUMINUM FRAMED SKYLIGHT
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)	RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)	AFS	
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)	RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)		
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)	RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)		
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)	RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)		
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)	RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)		
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)	RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)		
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)	RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)		
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)	RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)		
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)	CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL		
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)	CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)		
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT	CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM		
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)	LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS		
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)	ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE		

GRAPHIC LEGEND

LIMESTONE

CONCRETE

LOUVER

KEY PLAN

State of Wyoming

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ORIGINAL ISSUE
PKG. IDENTIFIER 3

EXTERIOR WALL SECTIONS - SOUTH

SCALE As indicated

3AE382

Schematic Design

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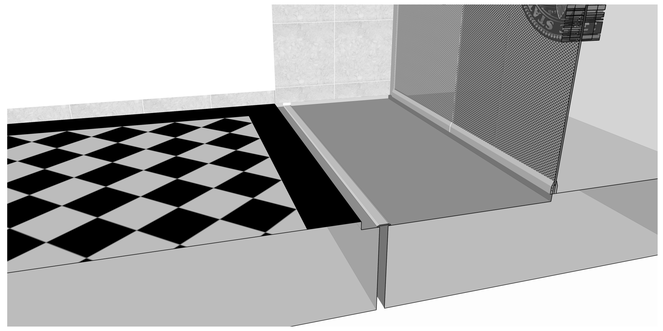
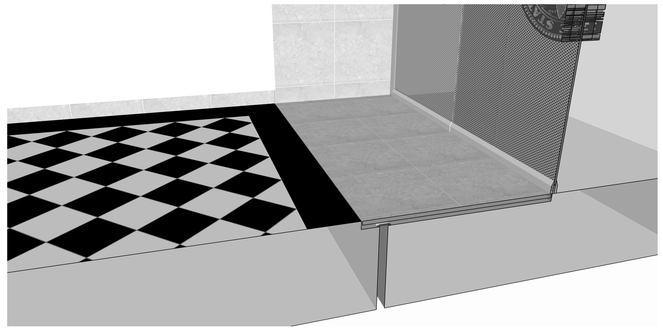
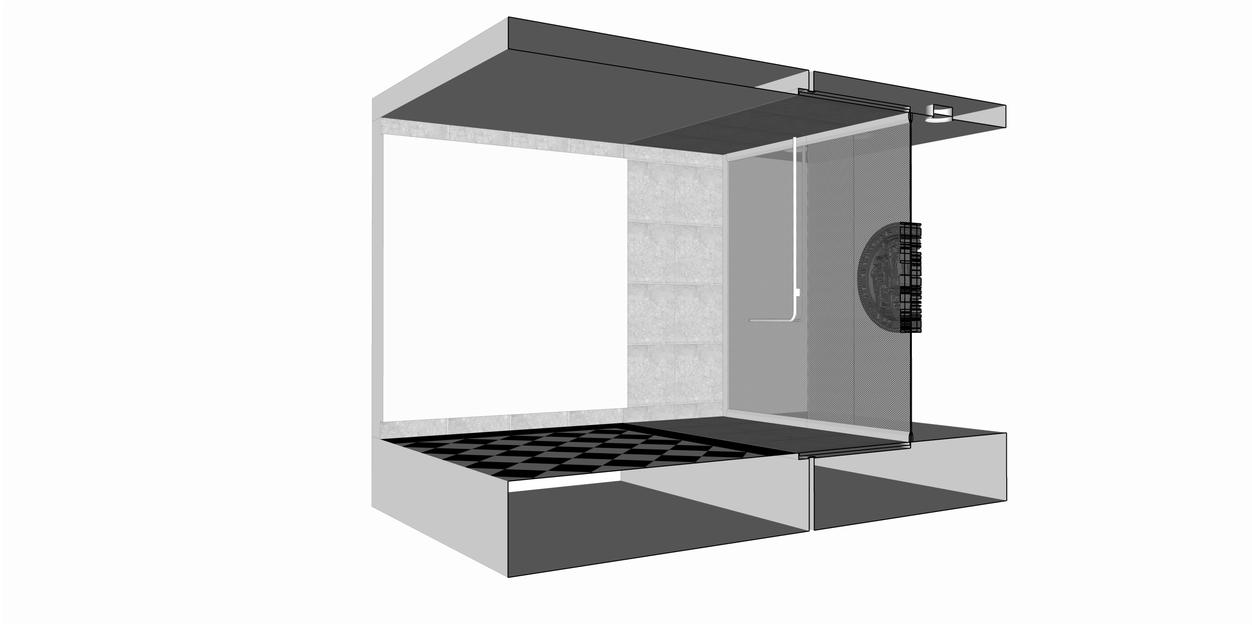


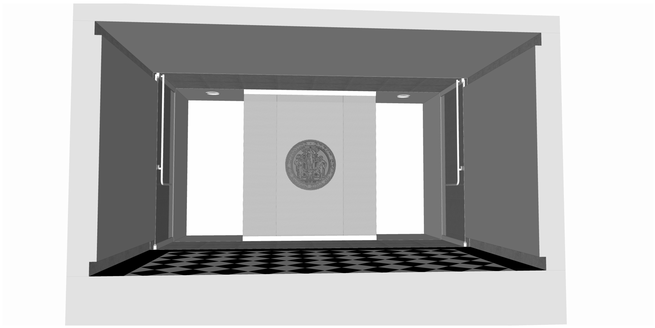
D6 ENLARGED CONNECTOR SECTION PERSPECTIVE AT EXPANSION JOINT - FLOOR FINISHE REMOVED
NTS



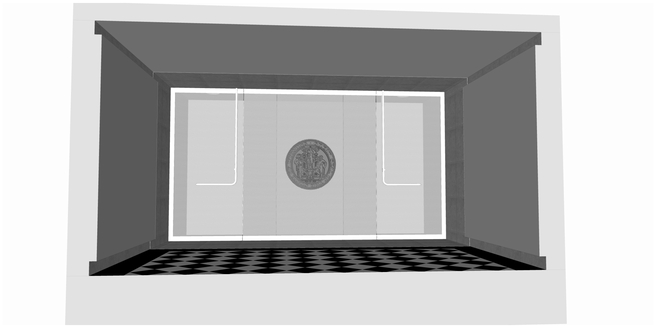
E6 ENLARGED CONNECTOR SECTION PERSPECTIVE AT EXPANSION JOINT - FLOOR FINISH
NTS



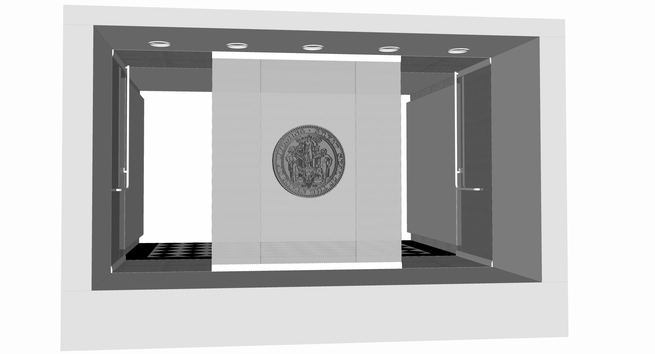
B6 CONNECTOR SECTION PERSPECTIVE AT EXPANSION JOINT
NTS



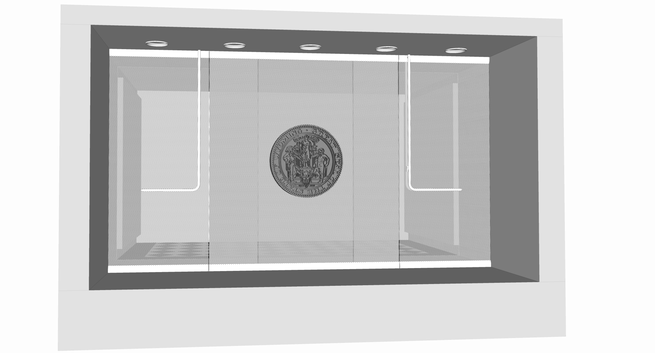
E3 CONNECTOR PERSPECTIVE AT E.J. LOOKING NORTH - DOORS OPEN
NTS



D3 CONNECTOR PERSPECTIVE AT E.J. LOOKING NORTH - DOORS CLOSED
NTS



C3 CONNECTOR PERSPECTIVE AT E.J. LOOKING SOUTH - DOORS OPEN
NTS



B3 CONNECTOR PERSPECTIVE AT E.J. LOOKING SOUTH - DOORS CLOSED
NTS

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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CONNECTOR PERSPECTIVES AT EXPANSION JOINT

SCALE 1" = 160'-0"

3AE431

Schematic Design

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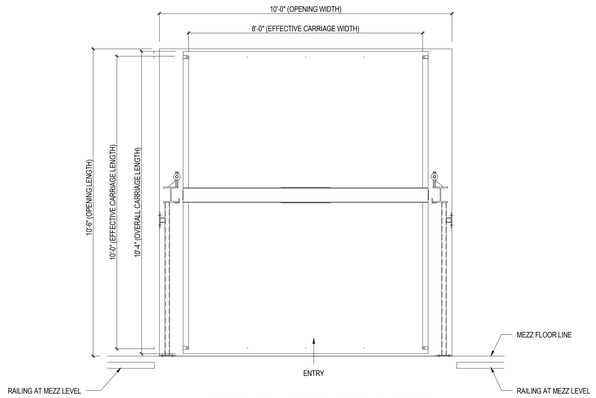
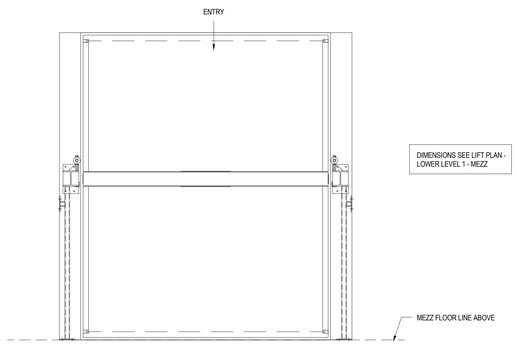
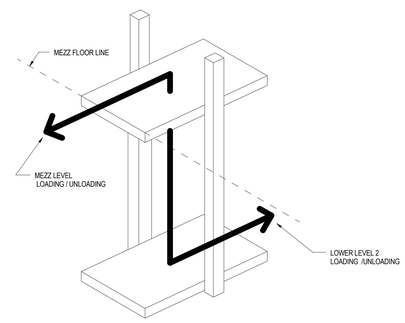


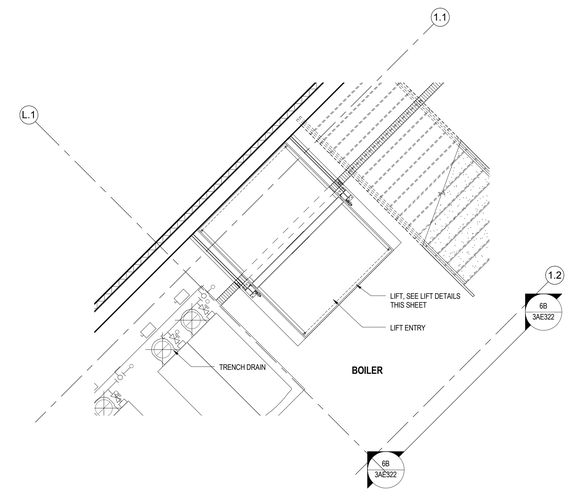
LIFT PLAN - LOWER LEVEL 1 - MEZZ



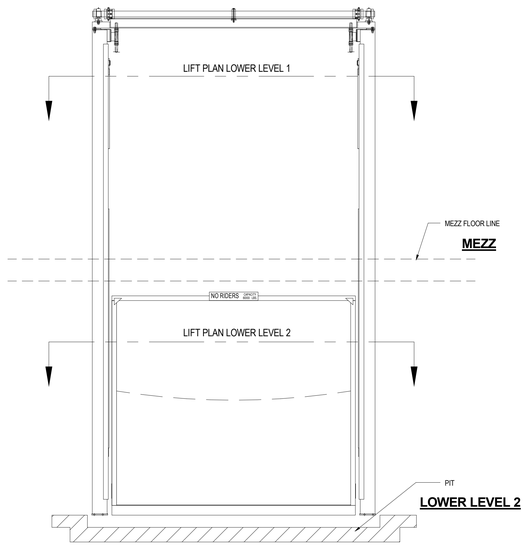
LIFT PLAN - LOWER LEVEL 2



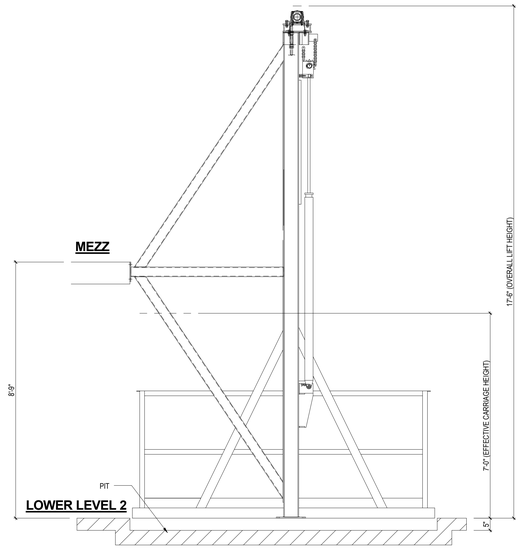
LIFT LOADING/UNLOADING PATTERN



2E LIFT PLAN - LOWER LEVEL 2
1/4" = 1'-0"

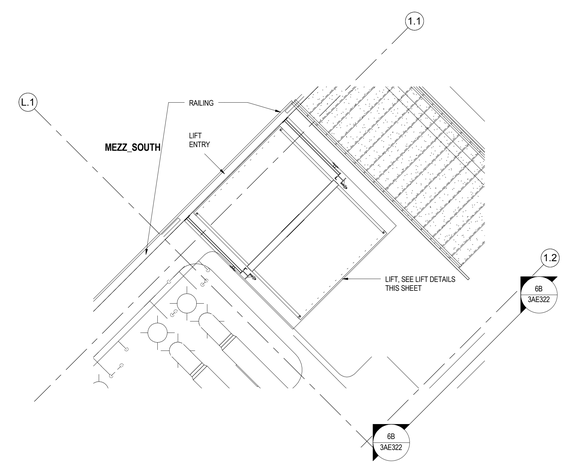


LIFT ELEVATION (VIEW FROM MEZZ SIDE)



LIFT SIDE ELEVATION

6B LIFT DETAILS
1/2" = 1'-0"



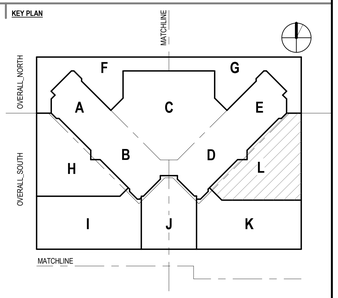
2B LIFT PLAN - LOWER LEVEL 1
1/4" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

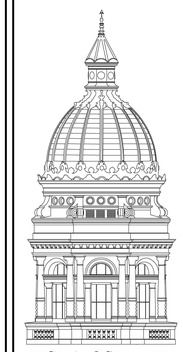
GRAPHIC LEGEND

KEY PLAN



State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

ENLARGED LIFT PLANS

SCALE: As indicated

3AE461

Schematic Design

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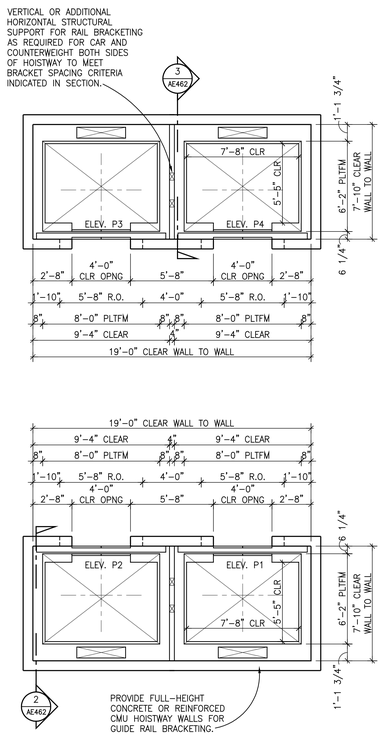
NOTES:

– APPLICATION DESIGNED FOR:
OTIS
KONE
THYSSENKRUPP

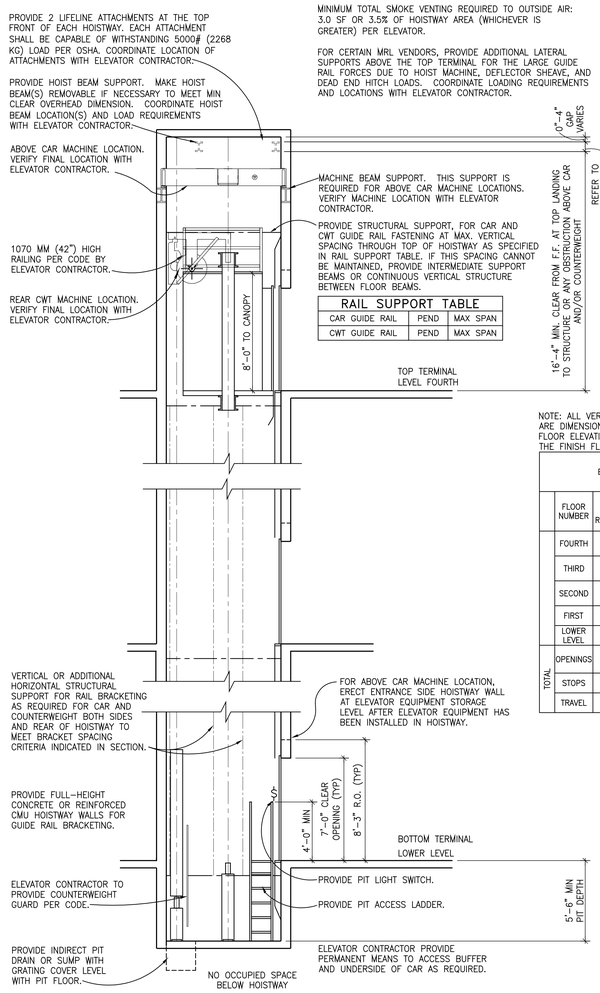
PIT AND OVERHEAD PLANS INDICATE REACTIONS FOR MACHINE ROOM–LESS EQUIPMENT OF VARIOUS ELEVATOR VENDORS. WHERE REACTIONS OF DIFFERENT VENDORS OVERLAP, THE HIGHER REACTION IS INDICATED. REACTIONS FOR ONE VENDOR DO NOT OCCUR WITH THE REACTIONS OF OTHER VENDORS. OVERHEAD PLANS ARE NOT SHOWN FOR VENDORS WITH NO REACTIONS IN THE OVERHEAD.



PRELIMINARY HOISTWAY PLAN ELEVATORS P1–P4

1 / AE462

SCALE: 1/4" = 1'–0"
ELEVATORS P1–P3 DUTY: 4000# @ 350 FPM
ELEVATOR P4 DUTY: 4000# @ 350 FPM CLASS 'C3' LOADING
ASSUMPTIONS:
NON–SEISMIC
NO OCCUPIED SPACE BELOW HOISTWAY



RAIL SUPPORT TABLE

CAR GUIDE RAIL	PEND	MAX SPAN
CWT GUIDE RAIL	PEND	MAX SPAN

NOTE: ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

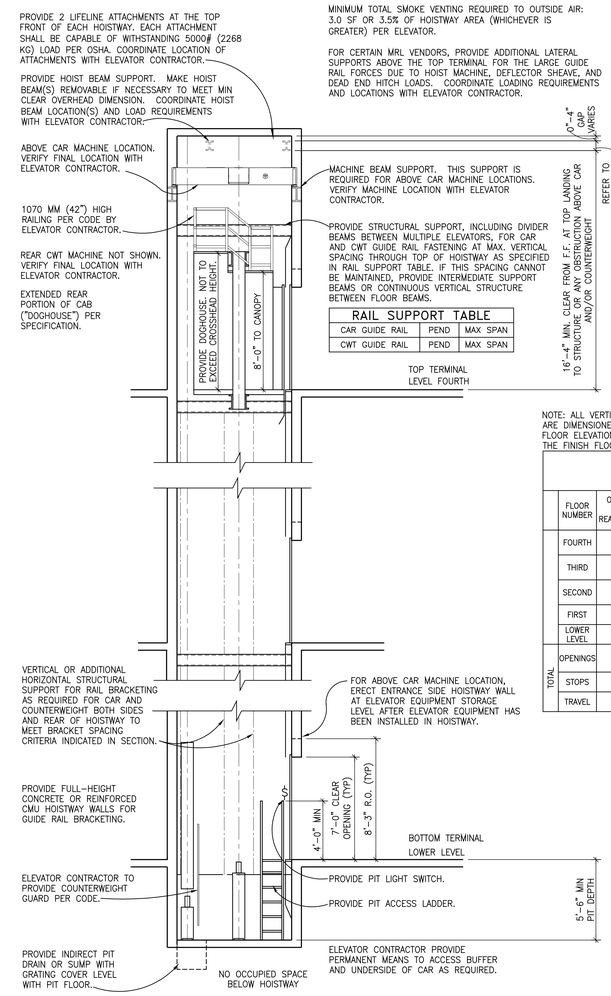
ELEVATORS P1–P3

	FLOOR NUMBER	OPENING REAR	OPENING FRONT	ELEVATION	FLOOR HEIGHT (FEET)
	FOURTH		F	140'–6"	
	THIRD		F	127'–0"	13'–6"
	SECOND		F	113'–6"	13'–6"
	FIRST		F	100'–0"	13'–6"
	LOWER LEVEL		F	±89'–10"	±10'–2"
TOTAL	OPENINGS		5		
	STOPS	5			
	TRAVEL				±50'–8"

PRELIMINARY HOISTWAY SECTION ELEVATOR P2 (ELEVS. P1 & P3 SIM.)

2 / AE462

SCALE: 1/4" = 1'–0"
DUTY: 4000# @ 350 FPM
ASSUMPTIONS:
NON–SEISMIC
NO OCCUPIED SPACE BELOW HOISTWAY



RAIL SUPPORT TABLE

CAR GUIDE RAIL	PEND	MAX SPAN
CWT GUIDE RAIL	PEND	MAX SPAN

NOTE: ALL VERTICAL DIMENSIONS THAT ARE DIMENSIONED FROM A BUILDING FLOOR ELEVATION ARE DIMENSIONED TO THE FINISH FLOOR ELEVATION.

ELEVATOR P4

	FLOOR NUMBER	OPENING REAR	OPENING FRONT	ELEVATION	FLOOR HEIGHT (FEET)
	FOURTH		F	140'–6"	
	THIRD		F	127'–0"	13'–6"
	SECOND		F	113'–6"	13'–6"
	FIRST		F	100'–0"	13'–6"
	LOWER LEVEL		F	±89'–10"	±10'–2"
TOTAL	OPENINGS		5		
	STOPS	5			
	TRAVEL				±50'–8"

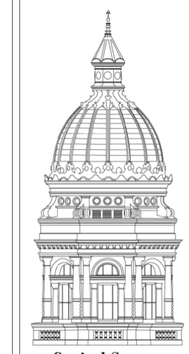
PRELIMINARY HOISTWAY SECTION ELEVATOR P4

3 / AE462

SCALE: 1/4" = 1'–0"
DUTY: 4000# @ 350 FPM
CLASS 'C3' LOADING
ASSUMPTIONS:
NON–SEISMIC
NO OCCUPIED SPACE BELOW HOISTWAY

State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/16/14 -
PKG. IDENTIFIER 3

HOISTWAY PLAN & SECTIONS ELEVATORS P1-P4

SCALE AS NOTED

AE462

Schematic Design

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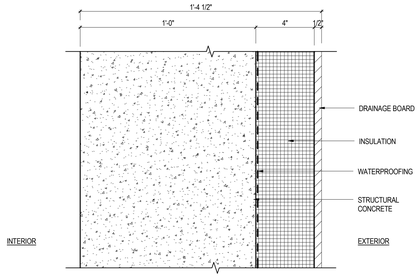

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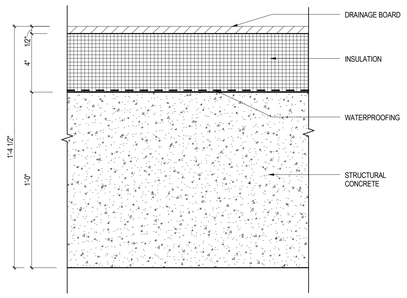
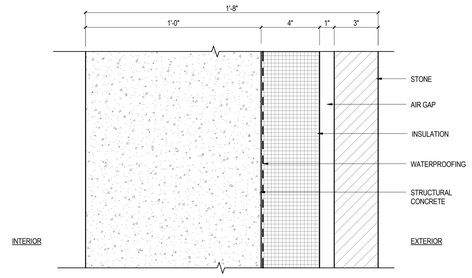


PLAN

WALL TYPE 1 - CONCRETE (WITH INSULATION)

3" = 1'-0"

EW1



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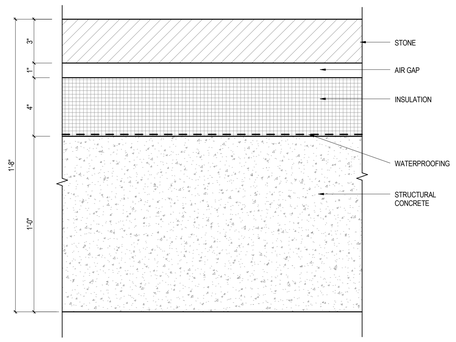
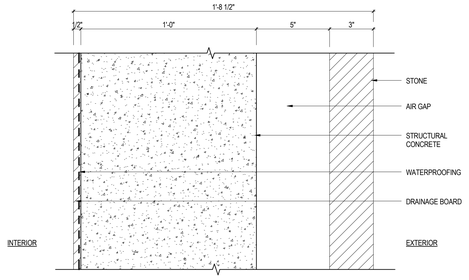


PLAN

WALL TYPE 2 - STONE (WITH INSULATION)

3" = 1'-0"

EW2



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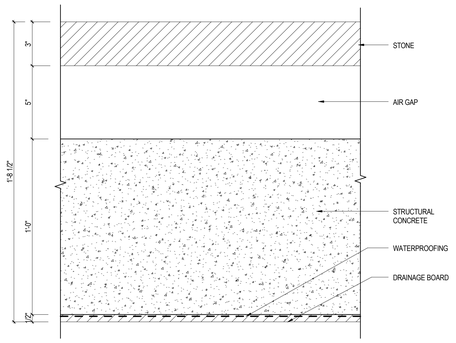
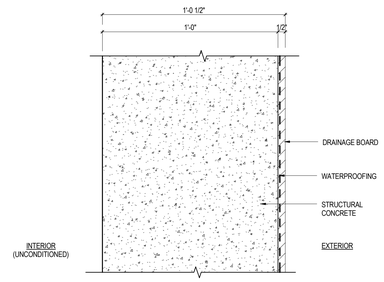


PLAN

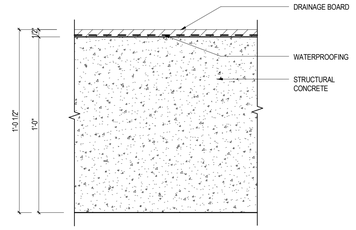
WALL TYPE 3 - STONE (NO INSULATION)

3" = 1'-0"

EW3



SECTION

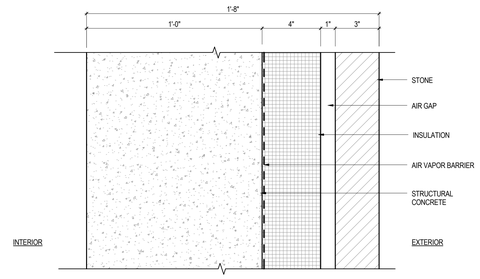


PLAN

WALL TYPE 4 - CONCRETE (NO INSULATION)

3" = 1'-0"

EW4



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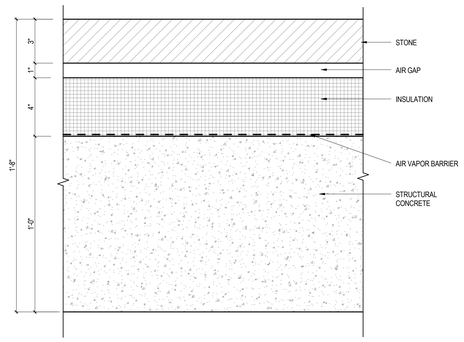
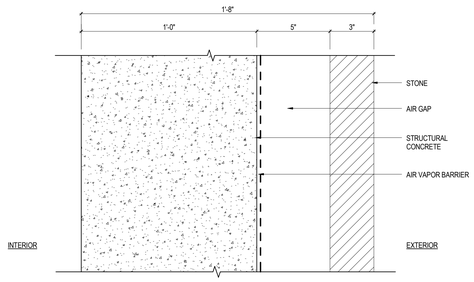


PLAN

WALL TYPE 5 - STONE (WITH INSULATION)

3" = 1'-0"

EW5



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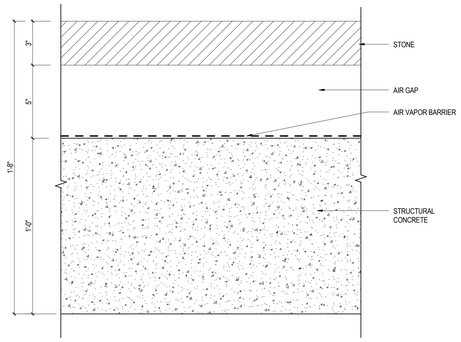

PLAN

WALL TYPE 6 - STONE (NO INSULATION)

3" = 1'-0"

EW6

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619

ORIGINAL ISSUE

PKG. IDENTIFIER 3

EXTERIOR WALL ASSEMBLIES - BELOW GRADE

SCALE As indicated

3AE601

Schematic Design

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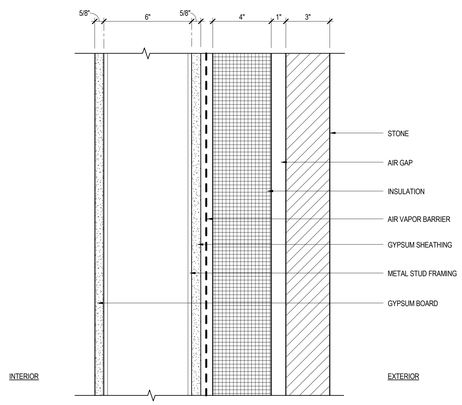

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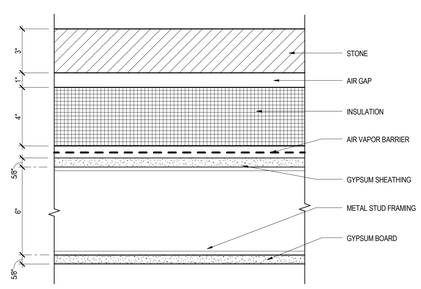
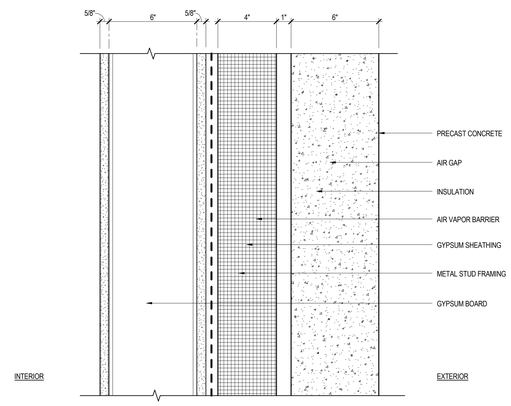


PLAN

WALL TYPE 10 - STONE (WITH INSULATION)

3" = 1'-0"

EW10



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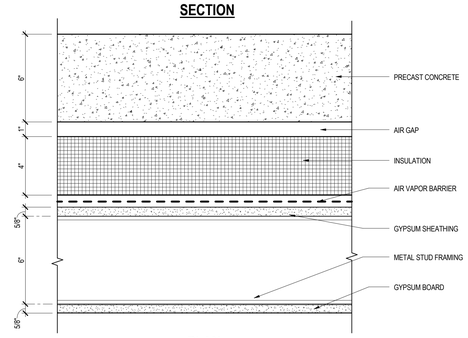
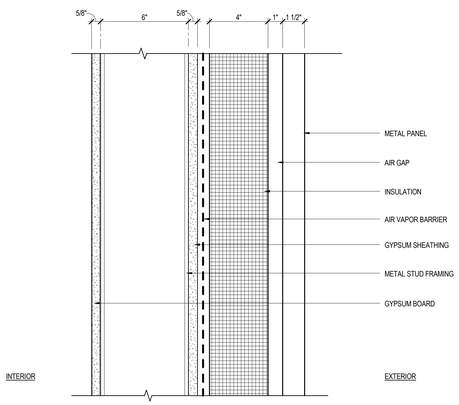


PLAN

WALL TYPE 11 - PRECAST CONCRETE (WITH INSULATION)

3" = 1'-0"

EW11



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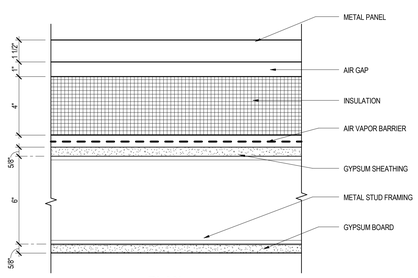

PLAN

WALL TYPE 12 - METAL PANEL (WITH INSULATION)

3" = 1'-0"

EW12

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

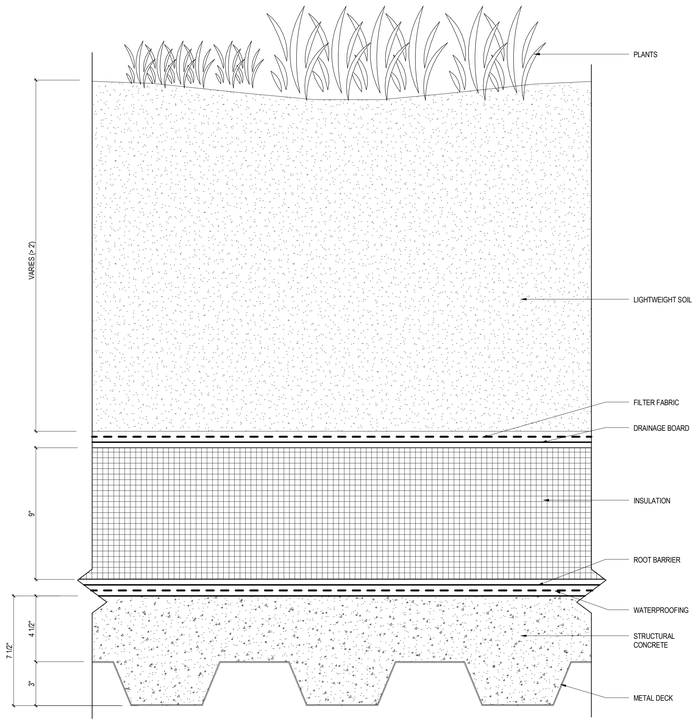
PROJECT NUMBER	203619
ORIGINAL ISSUE	06/06/14 -
PKG. IDENTIFIER	3

EXTERIOR WALL ASSEMBLIES - ABOVE GRADE

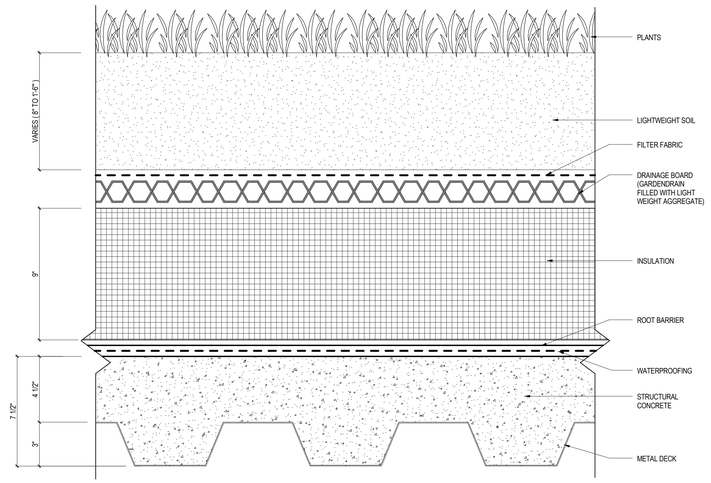
SCALE: As indicated

3AE602

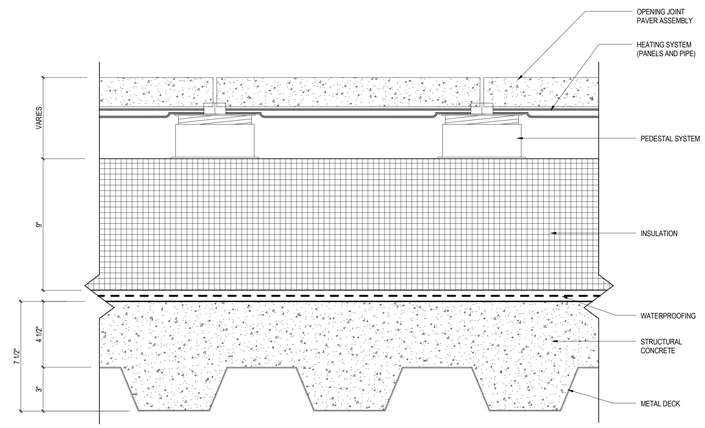
Schematic Design



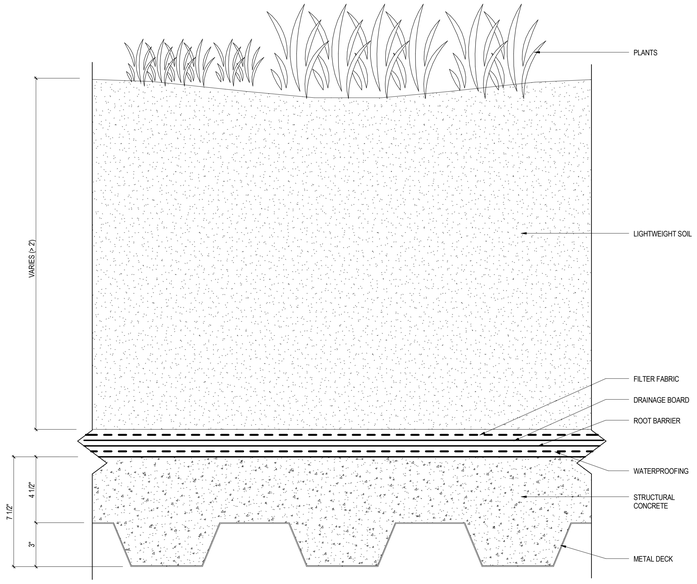
ROOF SYSTEM 1 - INTENSIVE GREEN ROOF
3" = 1'-0"
RS1



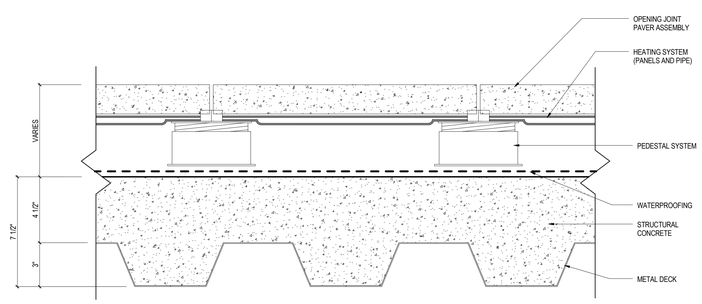
ROOF SYSTEM 2 - SEMI-INTENSIVE GREEN ROOF
3" = 1'-0"
RS2



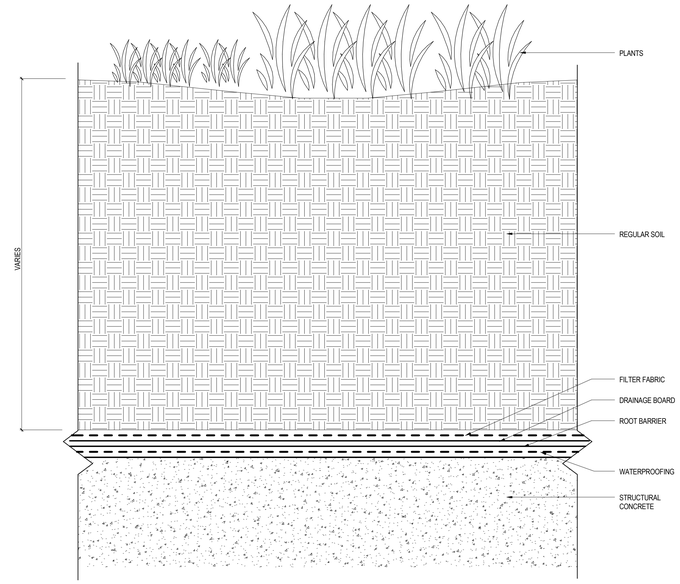
ROOF SYSTEM 3 - PLAZA DECK
3" = 1'-0"
RS3



ROOF SYSTEM 5 - INTENSIVE GREEN ROOF
3" = 1'-0"
RS5



ROOF SYSTEM 6 - PLAZA DECK
3" = 1'-0"
RS6



ROOF SYSTEM 7 - REGULAR SOIL
3" = 1'-0"
RS7

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AF5	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

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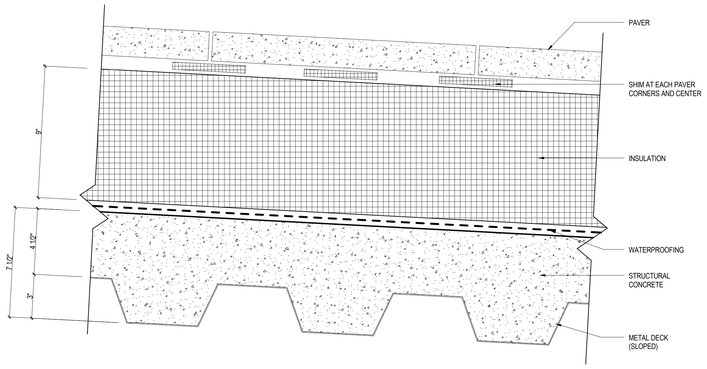
PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

EXTERIOR ROOF ASSEMBLIES

SCALE As indicated

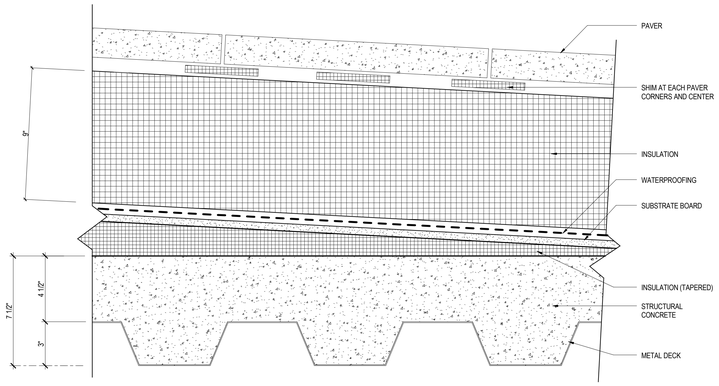
3AE603

Schematic Design



ROOF SYSTEM 10 - IRMA
3" = 1'-0"

RS10



ROOF SYSTEM 11 - IRMA
3" = 1'-0"

RS11

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

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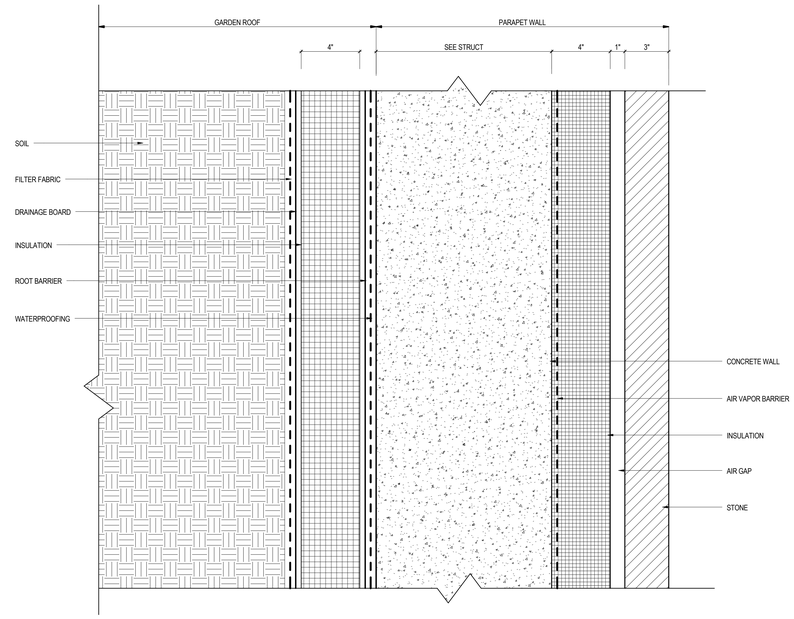
PKG. IDENTIFIER	3

EXTERIOR ROOF ASSEMBLIES

SCALE: As indicated

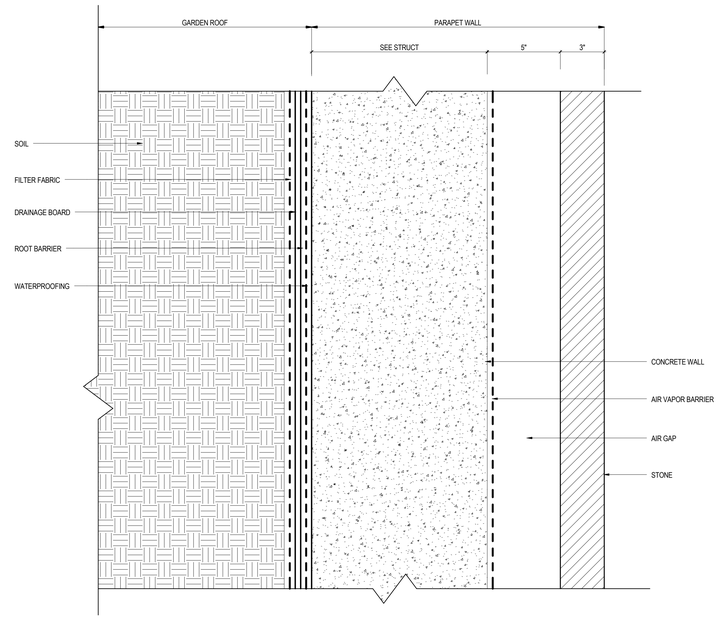
3AE604

Schematic Design



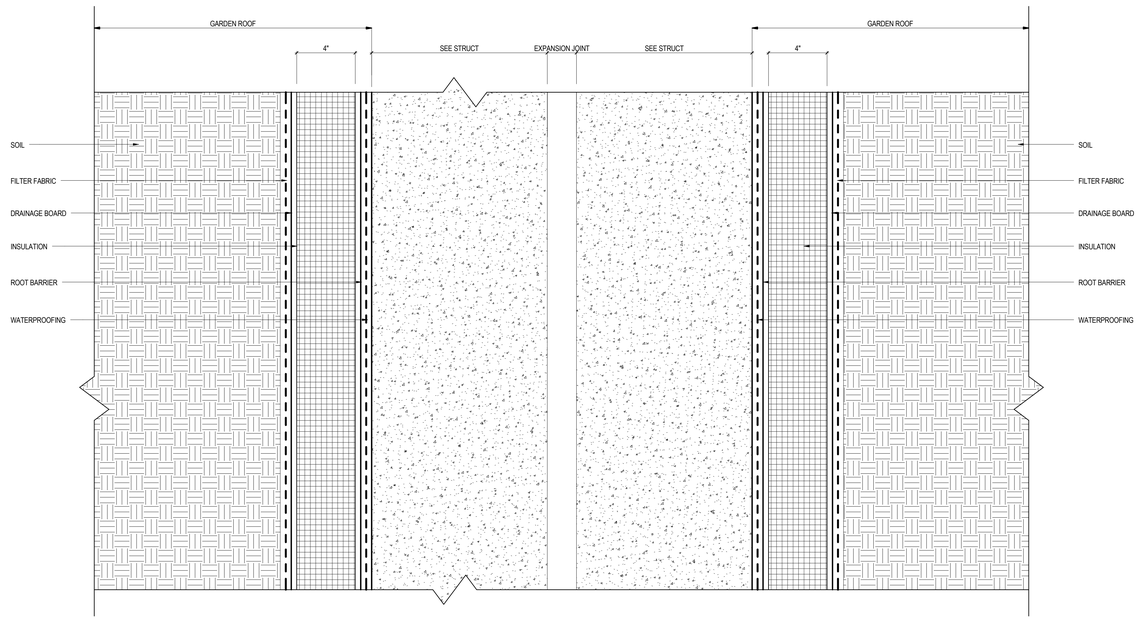
PARAPET ASSEMBLY 1 (WITH INSULATION) — PA1

3" = 1'-0"



PARAPET ASSEMBLY 2 (NO INSULATION) — PA2

3" = 1'-0"



PARAPET ASSEMBLY 3 (AT EXPANSION JOINT) — PA3

3" = 1'-0"

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AF5	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

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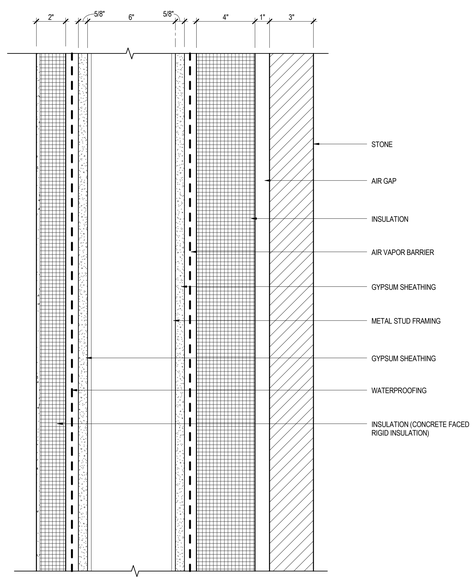
PKG. IDENTIFIER 3

EXTERIOR PARAPET ASSEMBLIES - BELOW GRADE

SCALE As indicated

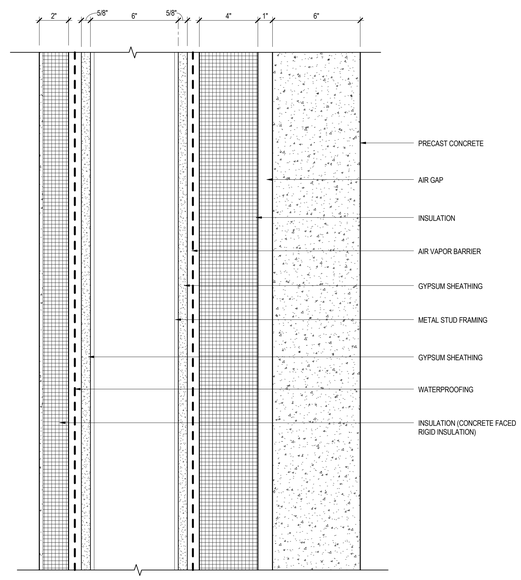
3AE605

Schematic Design



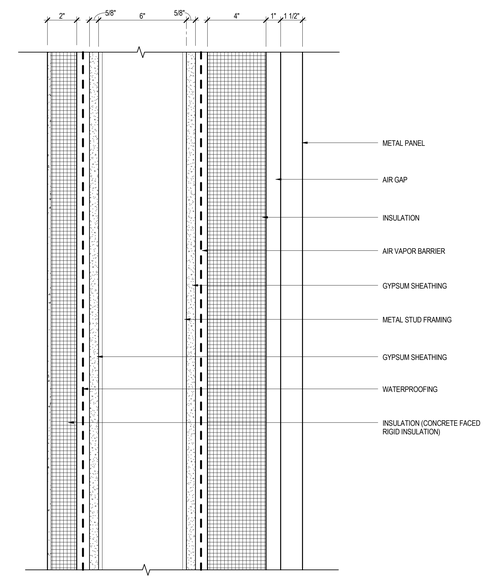
PARAPET ASSEMBLY 10 (WITH INSULATION) — PA10

3" = 1'-0"



PARAPET ASSEMBLY 11 (WITH INSULATION) — PA11

3" = 1'-0"



PARAPET ASSEMBLY 12 (WITH INSULATION) — PA12

3" = 1'-0"

GENERAL NOTES

1. REFER TO 3AE608 AND 3AE609 FOR DETAILED INFO

CONSTRUCTION NOTES

REFER TO EXTERIOR ASSEMBLY SHEETS (600 SERIES) FOR WALL ASSEMBLIES

EW 1	EX. WALL TYPE 1 CONCRETE (WITH INSULATION)
EW 2	EX. WALL TYPE 2 STONE (WITH INSULATION)
EW 3	EX.WALL TYPE 3 STONE (NO INSULATION)
EW 4	EX. WALL TYPE 4 CONCRETE (NO INSULATION)
EW 5	EX. WALL TYPE 5 STONE AT CONCRETE (WITH INSULATION)
EW 6	EX. WALL TYPE 6 STONE (NO INSULATION)
EW 10	EX. WALL TYPE 10 STONE AT METAL STUD BACKUP (W/ INSUL.)
EW 11	EX. WALL TYPE 11 PRECAST CONCRETE (WITH INSULATION)
EW 12	EX. WALL TYPE 12 METAL WALL PANEL SYSTEM (W/ INSUL.)
PA 1	EX. PARAPET TYPE 1 STONE AT SOIL (WITH INSULATION)
PA 2	EX. PARAPET TYPE 2 STONE AT SOIL (NO INSULATION)
PA 3	EX. PARAPET TYPE 3 AT EXPANSION JOINT
PA 10	EX. PARAPET TYPE 10 STONE AT ROOF (WITH INSULATION)
PA 11	EX. PARAPET TYPE 11 PRECAST CONCRETE (WITH INSULATION)
PA 12	EX. PARAPET TYPE 12 METAL WALL PANEL SYSTEM (WITH INSULATION)
RS 1	ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 2	ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (WITH INSULATION)
RS 3	ROOF ASSEMBLY TYPE 3 (PLAZA DECK) COMPOSITE METAL DECK (WITH INSULATION)
RS 5	ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) COMPOSITE METAL DECK (NO INSULATION)
RS 6	ROOF ASSEMBLY TYPE 6 (PLAZA DECK) COMPOSITE METAL DECK (NO INSULATION)
RS 7	ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) CONCRETE (NO INSULATION)
RS 10	ROOF ASSEMBLY TYPE 10 (IRMA) COMPOSITE METAL DECK ON NEW SLOPED STRUCT. (W/ INSUL.)
RS 11	ROOF ASSEMBLY TYPE 11 (IRMA) COMPOSITE METAL DECK ON EXIST. ROOF STRUCT. (W/ INSUL.)
CW 1	CURTAIN WALL SYSTEM TYPE 1 CURTAIN WALL
CW 2	CURTAIN WALL SYSTEM TYPE 2 CURTAIN WALL (WITH BUTT JOINT)
CW 3	CURTAIN WALL SYSTEM TYPE 3 STRUCTURAL GLASS WALL SYSTEM
LS 1	EXTERIOR LOUVER SYSTEM TYPE 1 ARCHITECTURAL LOUVERS
ES 1	EXTERIOR SUNSHADE TYPE 1 VERTICAL SUNSHADE DEVICE
ES 2	EXTERIOR SUNSHADE TYPE 2 HORIZONTAL SUNSHADE DEVICE
AFS	ALUMINUM FRAMED SKYLIGHT

GRAPHIC LEGEND

KEY PLAN

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EXTERIOR PARAPET ASSEMBLIES - ABOVE GRADE

SCALE: As indicated

3AE606

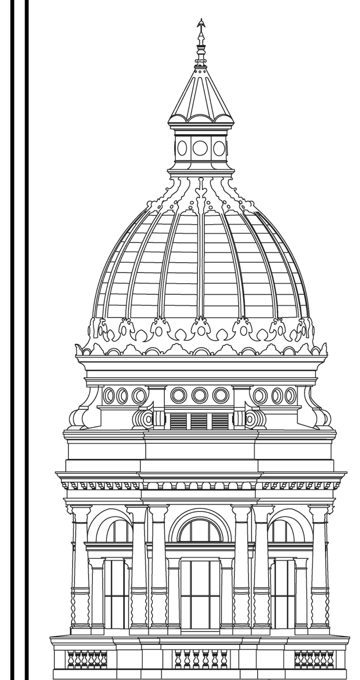
Schematic Design

EXTERIOR ASSEMBLIES MATRIX - HERSCHLER - Basis of Design

Abbreviation	Material	Spec Section #	Spec Section Name	Drawing Note	Manufacturer	Model	Material/Type	Color	Finish	Comments	Contact Info
EXT WALL ASSEMBLY TYPE 1 ✓		R-19	CONCRETE WALL	EW-1							
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Waterproofing Membrane	07 14 16	COLD FLUID-APPLIED WATERPROOFING	WP-1	W. R. Grace & Co.	Procore	Composite			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Extruded Polystyrene Insulation	07 21 00	BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 40		4"	Confirm Highload 40	
Drainage Board	Prefabricated Geocomposite Drain	07 13 53	ELASTOMERIC SHEET WATERPROOFING	DRAINAGE BOARD	W. R. Grace & Co.	Hydroduct	220			Complementary Materials - Hydroduct Tape & Hydroduct Coil 600	T.J. Sheahen - Grace 303.478.0729
EXT WALL ASSEMBLY TYPE 2 ✓		R-19	DIMENSIONAL LIMESTONE CLADDING	EW-2							
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Waterproofing Membrane	07 14 16	COLD FLUID-APPLIED WATERPROOFING	WP-1	W. R. Grace & Co.	Procore	Composite			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT WALL ASSEMBLY TYPE 3 ✓		NONE	CONCRETE WALL	EW-3							
Drainage Board	Prefabricated Geocomposite Drain	07 13 53	ELASTOMERIC SHEET WATERPROOFING	DRAINAGE BOARD	W. R. Grace & Co.	Hydroduct	220			Complementary Materials - Hydroduct Tape & Hydroduct Coil 600	T.J. Sheahen - Grace 303.478.0729
Waterproofing	Waterproofing Membrane	07 14 16	COLD FLUID-APPLIED WATERPROOFING	WP-1	W. R. Grace & Co.	Procore	Composite			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Air Gap	Air			AIR SPACE						Min. 5" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT WALL ASSEMBLY TYPE 4 ✓		NONE	CONCRETE WALL	EW-4							
Drainage Board	Prefabricated Geocomposite Drain	07 13 53	ELASTOMERIC SHEET WATERPROOFING	DRAINAGE BOARD	W. R. Grace & Co.	Hydroduct	220			Complementary Materials - Hydroduct Tape & Hydroduct Coil 600	T.J. Sheahen - Grace 303.478.0729
Waterproofing	Waterproofing Membrane	07 14 16	COLD FLUID-APPLIED WATERPROOFING	WP-1	W. R. Grace & Co.	Procore	Composite			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
EXT WALL ASSEMBLY TYPE 5 ✓		R-19	DIMENSIONAL LIMESTONE CLADDING	EW-5							
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT WALL ASSEMBLY TYPE 6 ✓		NONE	DIMENSIONAL LIMESTONE CLADDING	EW-6							
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT WALL ASSEMBLY TYPE 10 ✓		R-19	DIMENSIONAL LIMESTONE CLADDING	EW-10							
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT WALL ASSEMBLY TYPE 11 ✓		R-19	ARCHITECTURAL PRECAST CONCRETE	EW-11							
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Precast Concrete	Architectural Precast Concrete	03 45 00	ARCHITECTURAL PRECAST CONCRETE	APC	Stresscon					3/4" Joint - 2 stage joints	
EXT WALL ASSEMBLY TYPE 12 ✓		R-19	DRY JOINT METAL WALL PANEL SYSTEM	EW-12							
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Metal Panel	Dry Joint Metal Panel	07 46 18	DRY JOINT METAL WALL PANEL SYSTEM	MP-1	Pohl Inc.	Europanel	1-1/2"		Open Joint System	3/4" Open Joint	
EXT PARAPET ASSEMBLY TYPE 1✓		R-19		PA-1							
Soil	Lightweight Soil			LIGHTWEIGHT SOIL	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			FILTER FABRIC	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	DRAINAGE BOARD	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Insulation	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 60		4"	May change to Highload 100+ where we have Firetruck access	
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT PARAPET ASSEMBLY TYPE 2 ✓		NONE		PA-2							
Soil	Lightweight Soil			Lightweight Soil	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			Filter Fabric	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	Drainage Board	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING						Open joints (Special Specification?)	
EXT PARAPET ASSEMBLY TYPE 3✓		R-19		PA-3							
Soil	Lightweight Soil			LIGHTWEIGHT SOIL	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			FILTER FABRIC	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	DRAINAGE BOARD	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Insulation	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 60		4"	May change to Highload 100+ where we have Firetruck access	
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Expansion Joint				EJ							
Structural Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE							Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Insulation	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 60		4"	May change to Highload 100+ where we have Firetruck access	
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	DRAINAGE BOARD	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			FILTER FABRIC	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Soil	Lightweight Soil			LIGHTWEIGHT SOIL	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
EXT PARAPET ASSEMBLY TYPE 10✓		R-19		PA-10							
Insulation	Concrete Faced Rigid Insulation										
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Stone	Dimensional Stone	04 42 00	DIMENSIONAL STONE CLADDING	STONE CLADDING		Indiana Limestone			Open Joint System	Open joints (Special Specification?)	
EXT PARAPET ASSEMBLY TYPE 11✓		R-19		PA-11							
Insulation	Concrete Faced Rigid Insulation										
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729
Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Precast Concrete	Architectural Precast Concrete	03 45 00	ARCHITECTURAL PRECAST CONCRETE	APC	Stresscon					3/4" Joint - 2 stage joints	
EXT PARAPET ASSEMBLY TYPE 12✓		R-19		PA-12							
Insulation	Concrete Faced Rigid Insulation										
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Metal Stud Framing	Metal Stud Framing	05 40 00	COLD FORMED METAL FRAMING	METAL STUD	Telling Industries	Exterior Studs	6"				
Gypsum Sheathing	Exterior Sheathing	06 16 43	GYPSUM SHEATHING	GYP. SHEATHING	Georgia Pacific	Exterior Gypsum Sheathing	5/8"				
Air Vapor Barrier	Air Vapor Barrier	07 27 29	FLUID APPLIED AIR BARRIER - VAPOR PERMEABLE	AVB-1	W. R. Grace & Co.	Perm-A-Barrier	VP20			Drawing Notes: Note once "waterproofing typical"	T.J. Sheahen - Grace 303.478.0729

State of Wyoming

Administration & Information Construction Management



Capitol Square
Rehabilitation and Restoration

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/16/14 -
PKG. IDENTIFIER 3

EXTERIOR ASSEMBLY MATRIX

SCALE

3AE608

Schematic Design

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Insulation	Rigid Fiber Insulation	07 21 00	RIGID FIBER INSULATION	SEMI-RIGID INSULATION	Thermafiber	RainBarrier	45	Dark or regular colored	4"	Dark color to be used for shadow box assemblies	
Air Gap	Air			AIR SPACE						Min. 1" Air Space	
Metal Panel	Dry Joint Metal Panel	07 46 18	DRY JOINT METAL WALL PANEL SYSTEM	MP-1	Pohl Inc.	Europanel	1-1/2"			3/4" Open Joint	
ROOF ASSEMBLY TYPE 1 (INTENSIVE GREEN ROOF) ✓		R-48		**RS-1**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated Systems	N-Dek	3" - 18 ga Metal Deck			Structure sloped to drain	Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC			Check with Hydrotech Monolithic Membrane 6125 / 215mil to make sure LWC is ok	Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Insulation	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 60		4"	May change to Highload 100+ where we have Firetruck access	
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	Drainage Board	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			Filter Fabric	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Soil	Lightweight Soil			Lightweight Soil	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
Plants	Vegetation			TBD							Lance Thies - Landscape 312.470.9518
ROOF ASSEMBLY TYPE 2 (SEMI-INTENSIVE GREEN ROOF) ✓		R-48		**RS-2**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated Systems	N-Dek	3" - 18 ga Metal Deck			Structure sloped to drain	Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC				Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Root Stop	Root Stop				American Hydrotech, Inc.	Root Barrier	RBII				Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Insulation	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	RIGID BOARD INSULATION	DOW	STYROFOAM	HIGHLOAD 60		4"		
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	Drainage Board	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Filter Fabric				TBD	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Soil				TBD	American Hydrotech, Inc.	LiteTop	Grow Media		3"-4"		Kile Rick - Hydrotech 312.337.4998
Plants	Vegetation			TBD							Lance Thies - Landscape 312.470.9518
ROOF ASSEMBLY TYPE 3 (PLAZA DECK) ✓		R-48		**RS-3**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated System	N-Dek	3" - 18 ga Metal Deck				Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC				Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Board	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	TBD	DOW	STYROFOAM	ROOFMATE		4"		
Heating				TBD						Hydrotech to provide	
Pedestal	Pedestal System			TBD	American Hydrotech, Inc.	Pedestal System	High Tab / Elevator				Jeff Spalding -Hydrotech 312.337.4998
Paver	Open Joint Paver Assembly	32 14 13	PRECAST CONCRETE PAVERS	PC-PAVERS	Hanover	Pedestal Pavers	PREST	TBD	TBD		Jeff Spalding -Hydrotech 312.337.4998
ROOF ASSEMBLY TYPE 5 (INTENSIVE GREEN ROOF) no insulation		NONE		**RS-5**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated Systems	N-Dek	3" - 18 ga Metal Deck			Structure sloped to drain	Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC			Check with Hydrotech Monolithic Membrane 6125 / 215mil to make sure LWC is ok	Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	Drainage Board	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			Filter Fabric	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Soil	Lightweight Soil			Lightweight Soil	American Hydrotech, Inc.	LiteTop	Grow Media		8" - 2'-6"		Kile Rick - Hydrotech 312.337.4998
Plants	Vegetation			TBD							Lance Thies - Landscape 312.470.9518
ROOF ASSEMBLY TYPE 6 (PLAZA DECK) no insulation ✓		NONE		**RS-6**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated System	N-Dek	3" - 18 ga Metal Deck				Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC				Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Heating				TBD						Hydrotech to provide	
Pedestal	Pedestal System			TBD	American Hydrotech, Inc.	Pedestal System	High Tab / Elevator				Jeff Spalding -Hydrotech 312.337.4998
Paver	Open Joint Paver Assembly	32 14 13	PRECAST CONCRETE PAVERS	PC-PAVERS	Hanover	Pedestal Pavers	PREST	TBD	TBD		Jeff Spalding -Hydrotech 312.337.4998
ROOF ASSEMBLY TYPE 7 (REGULAR SOIL) no insulation✓		NONE		**RS-7**							
Concrete	Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	CONCRETE			4 1/2" LWC			Check with Hydrotech Monolithic Membrane 6125 / 215mil to make sure LWC is ok	Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	WP-2	American Hydrotech, Inc.	Monolithic Membrane	6125 / 215mil		Asphalt	231 Ft of Hydrostatic Head	Jeff Spalding -Hydrotech 312.337.4998
Root Barrier	Protection Sheet / Root Barrier				American Hydrotech, Inc.	Hydroflex RBII / SpinOut	160 MIL (4mm)			(4 mm) thick polyester reinforced, modified asphalt sheet with granular surface with factory- and field-applied root growth regulator	Jeff Spalding -Hydrotech 312.337.4998
Drainage Board	Drainage Board	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	Drainage Board	American Hydrotech, Inc.	Hydrodrain	AL				Jeff Spalding -Hydrotech 312.337.4998
Filter Fabric	Filter Fabric			Filter Fabric	American Hydrotech, Inc.	System Filter					Jeff Spalding -Hydrotech 312.337.4998
Soil	Regular Soil			Regular Soil							Kile Rick - Hydrotech 312.337.4998
Plants	Vegetation			TBD							Lance Thies - Landscape 312.470.9518
ROOF ASSEMBLY TYPE 10 (IRMA) on new sloped structure✓		R-48		**RS-10**							
Metal Deck	Composite Metal Deck	05 31 23	METAL ROOF DECKING	METAL DECK	Consolidated System	N-Dek	3" - 18 ga Metal Deck				Shinjinee Pathak - Sillman 212.620.7970
Concrete	Light Weight Concrete	03 31 00	CONCRETE MATERIALS AND PROPORTIONING	LIGHTWEIGHT CONCRETE			4 1/2" LWC				Shinjinee Pathak - Sillman 212.620.7970
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Board	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	TBD	DOW	STYROFOAM	ROOFMATE		4"		
Pedestal	Pedestal System			TBD	American Hydrotech, Inc.	Pedestal System	High Tab / Elevator				Jeff Spalding -Hydrotech 312.337.4998
Paver	Open Joint Paver Assembly	32 14 13	PRECAST CONCRETE PAVERS	PC-PAVERS	Hanover	Pedestal Pavers	PREST	TBD	TBD		Jeff Spalding -Hydrotech 312.337.4998
ROOF ASSEMBLY TYPE 11 (IRMA) on existing roof structure ✓		R-48		**RS-11**							
Metal Deck	Composite Metal Deck									Existing	
Concrete	Light Weight Concrete									Existing	
Insulation	Extruded Polystyrene Board	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	TBD	DOW	STYROFOAM	ROOFMATE		sloped		
Substrate Board	Gypsum -Fiber Roof Board				USG	SECUROCK			sloped		
Waterproofing	Fluid-applied Rubberized Asphalt system	07 14 13	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING	TBD	American Hydrotech, Inc.	Monolithic Membrane	6125		Asphalt		Jeff Spalding -Hydrotech 312.337.4998
Insulation	Extruded Polystyrene Board	07 14 13 / 07 21 00	RUBBERIZED ASPHALT MEMBRANE WATERPROOFING / BUILDING INSULATION	TBD	DOW	STYROFOAM	ROOFMATE		4"		
Pedestal	Pedestal System			TBD	American Hydrotech, Inc.	Pedestal System	High Tab / Elevator				Jeff Spalding -Hydrotech 312.337.4998
Paver	Open Joint Paver Assembly	32 14 13	PRECAST CONCRETE PAVERS	PC-PAVERS	Hanover	Pedestal Pavers	PREST	TBD	TBD		Jeff Spalding -Hydrotech 312.337.4998
CURTAIN WALL SYSTEM TYPE 1 ✓				**CW-1**							
Curtain Wall System	Curtain Wall System	08 44 13	CURTAIN WALL SYSTEM (CWS)	CWS	Oldcastle Building Envelope	TCR	250-600				Aaron Blom - OldcastleBE 303.482.5354
CURTAIN WALL SYSTEM TYPE 2 ✓				**CW-2**							
Curtain Wall System	Curtain Wall System	08 44 13	CURTAIN WALL SYSTEM (CWS)	CWS	Oldcastle Building Envelope	Reliance	SS				Aaron Blom - OldcastleBE 303.482.5354
CURTAIN WALL SYSTEM TYPE 3 ✓				**CW-3**							
Structural Glazing	Structural Glass Curtan Wall System	08 44 26	STRUCTURAL GLASS CURTAIN WALL SYSTEM	CWS							
FRAMED SKY LIGHTS ✓				**AFS**							
Sky Light System	Sky Light System	08 63 00	ALUMINUM FRAMED SKYLIGHT	AFS	Oldcastle Building Envelope	Naturalite	BMS-3000 Sloped Glazing System			It is critical that design allows water to drain to outside. Allow for good air flow over interior surfaces. Review with Mechanical engineer. Sent to Oldcastle for review.	Aaron Blom - OldcastleBE 303.482.5354
LOUVER ✓				**LS-1**							
Exterior Louver	Architectural Louver System	08 91 00	ARCHITECTURAL LOUVERS	TBD	Airolite	Storm Class	SCC875				
EXTERIOR SUNSHADE ✓				**ES-1**							
Exterior Sunshade	Architectural Louver System	TBD	TBD	TBD	TBD	TBD	TBD				
EXTERIOR SUNSHADE ✓				**ES-2**							
Exterior Sunshade	Architectural Louver System	TBD	TBD	TBD	TBD	TBD	TBD				

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/20/14 -
PKG. IDENTIFIER 3

EXTERIOR ASSEMBLY MATRIX

SCALE

3AE609

Schematic Design

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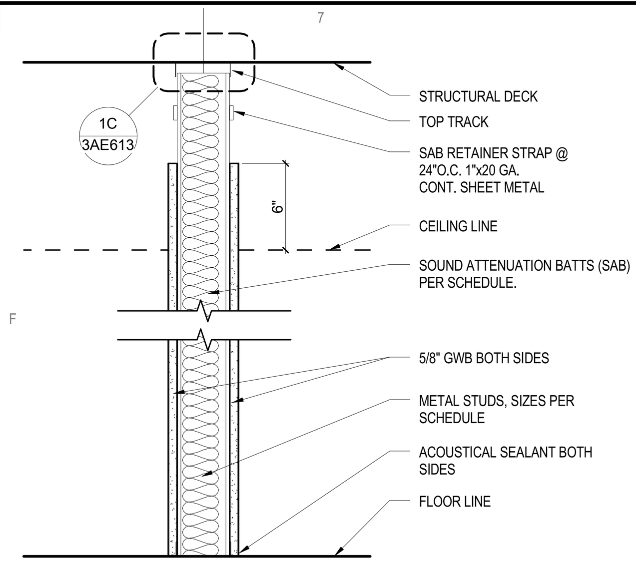
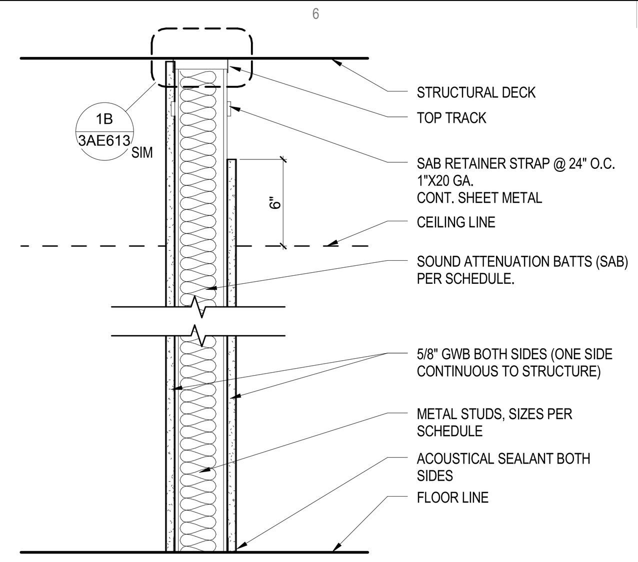


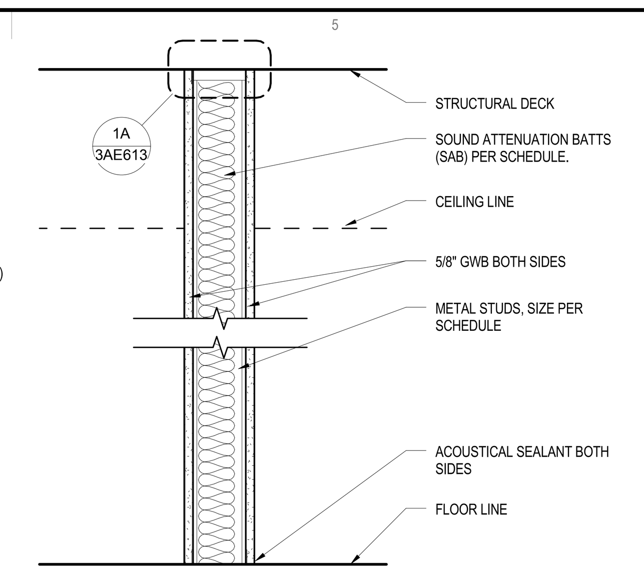
MARK	STUD SIZE	FIRE RATING	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
A1	3 5/8"	-	-	-	-	-
A6	6"	-	-	3 1/2"	-	-

A NON-FIRE RATED WALL
1 1/2" = 1'-0"



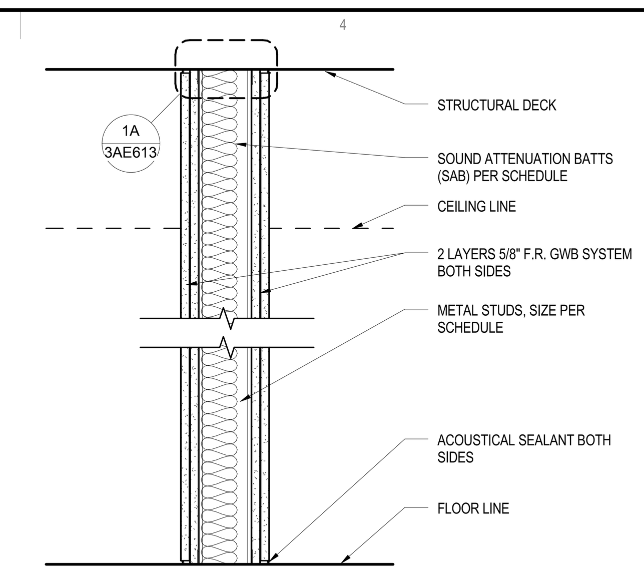
MARK	STUD SIZE	FIRE RATING	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST

B NON-FIRE RATED WALL
1 1/2" = 1'-0"



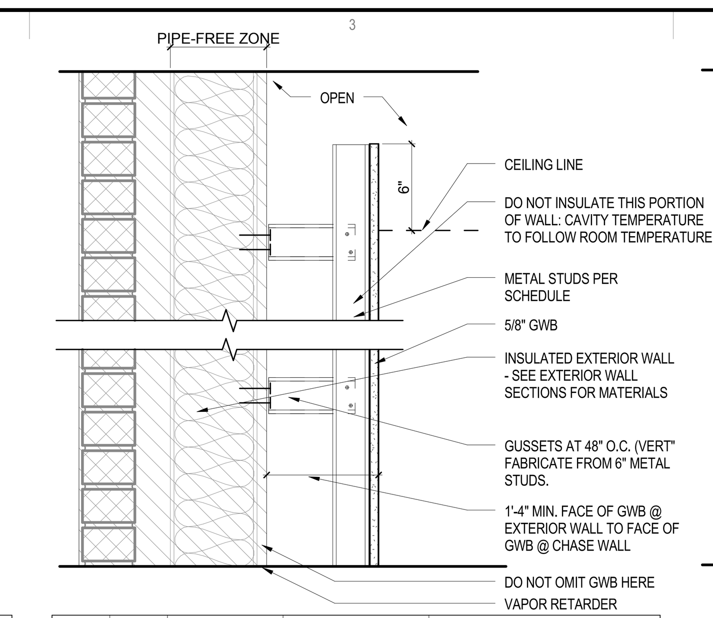
MARK	STUD SIZE	FIRE RATING	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
C1	3 5/8"	1 HR	U465, U450	-	39	TL99-160

C 1-HOUR WALL
1 1/2" = 1'-0"



MARK	STUD SIZE	FIRE RATING	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST
D1	3 5/8"	2 HR	U419, U450	-	48	TL-61-213
D6	6"	2 HR	U419, U450	3 1/2"	56	TL99-103

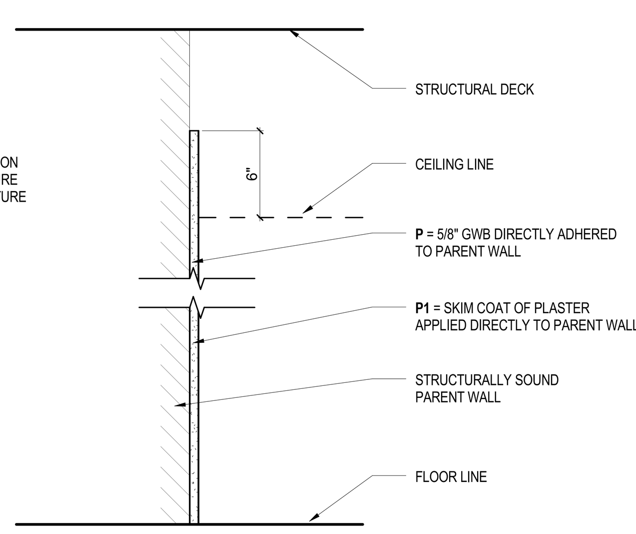
D 2-HOUR WALL
1 1/2" = 1'-0"



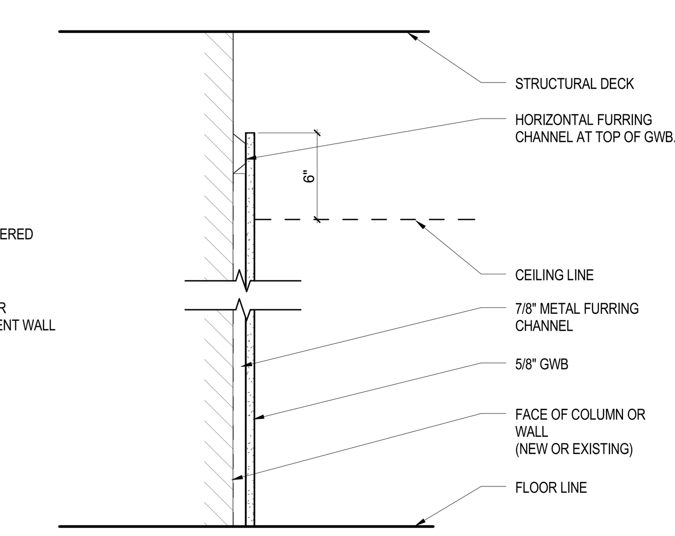
MARK	STUD SIZE	FIRE RATING	FIRE-RESISTANCE TEST	SOUND ATTENUATION SAB	STC	TEST

INTENT: MAINTAIN THERMAL CONTINUITY OF EXTERIOR WALL TO REDUCE RISK OF FREEZING PIPES

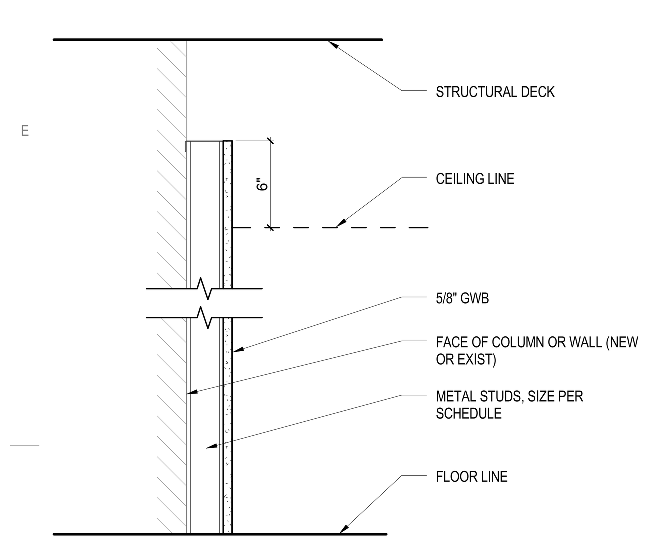
K PLUMBING CHASE @ EXTERIOR WALL
1 1/2" = 1'-0"



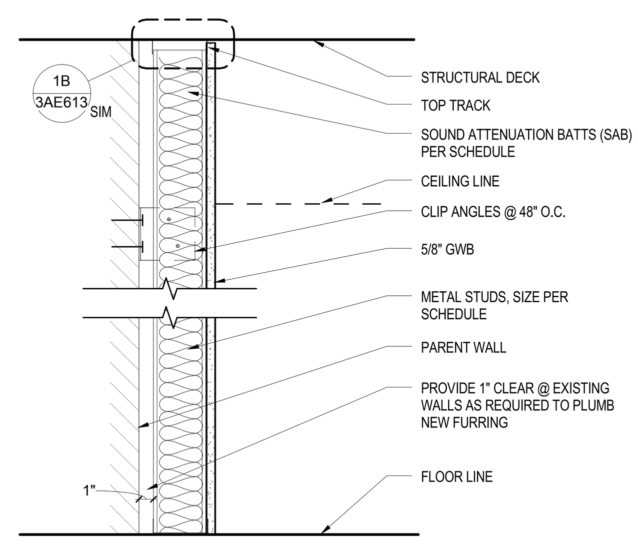
P DIRECT APPLIED
1 1/2" = 1'-0"



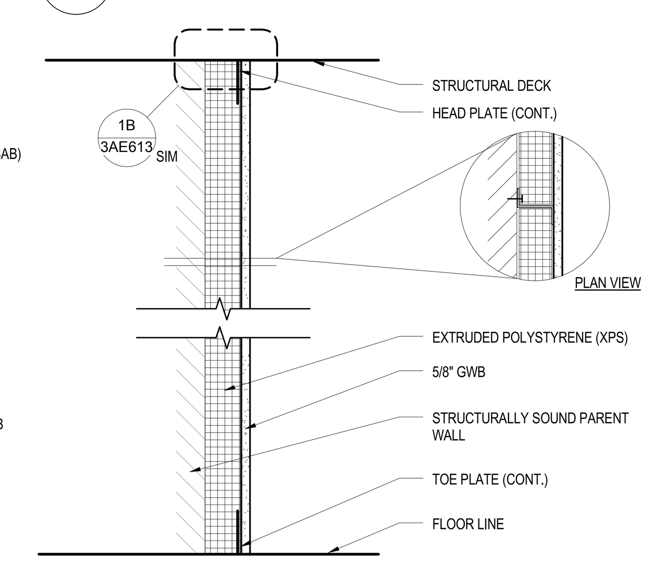
Q CHANNEL FURRING
1 1/2" = 1'-0"



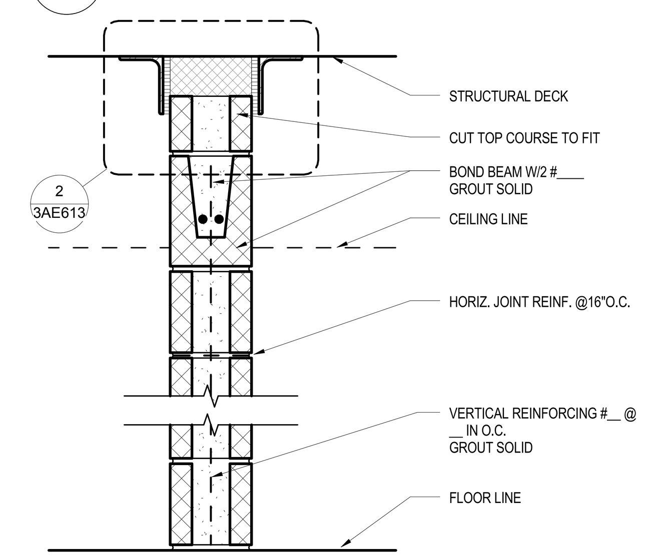
R STUD FURRING
1 1/2" = 1'-0"



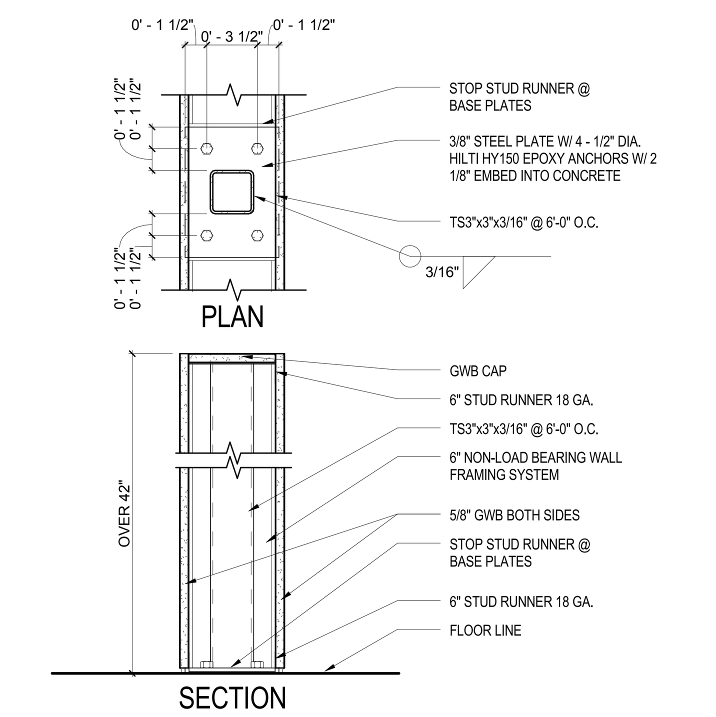
S STUD FURRING TO STRUCTURE
1 1/2" = 1'-0"



T Z-FURRING WITH XPS
1 1/2" = 1'-0"

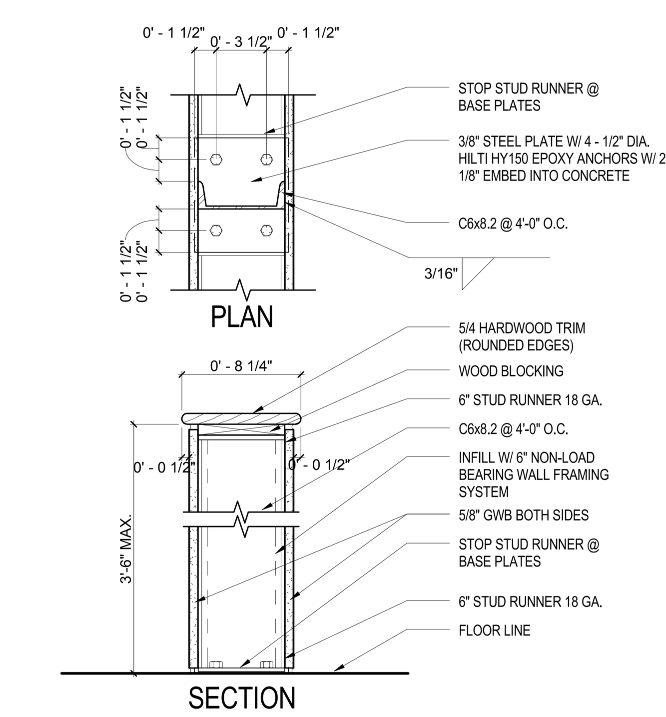


Y CMU PARTITION WALL
1 1/2" = 1'-0"



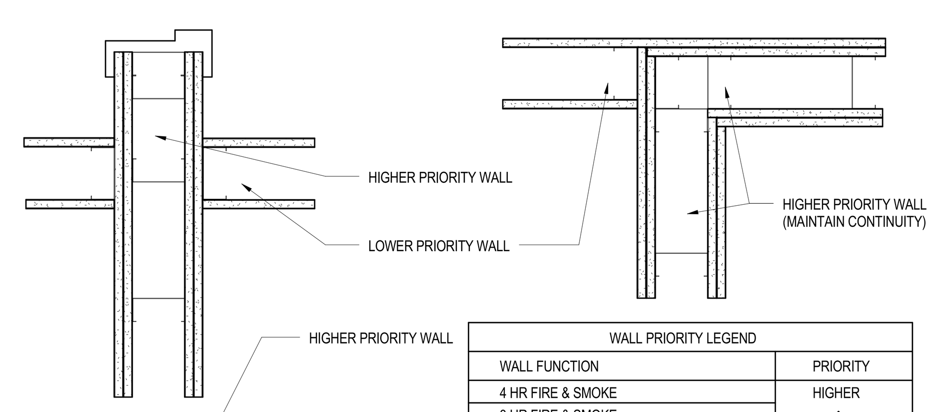
RATING INFORMATION
FIRE RATING - NON-RATED

5 KNEE WALL - OVER 42" HEIGHT
1 1/2" = 1'-0"



RATING INFORMATION
FIRE RATING - NON-RATED

6 KNEE WALL - 42" MAX HEIGHT
1 1/2" = 1'-0"

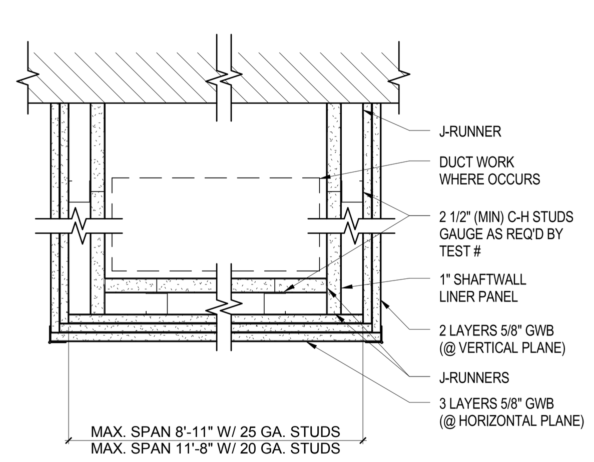


WALL PRIORITY LEGEND	
WALL FUNCTION	PRIORITY
4 HR FIRE & SMOKE	HIGHER
3 HR FIRE & SMOKE	↑
2 HR FIRE & SMOKE	
2 HR FIRE	
1 HR FIRE & SMOKE	
1 HR FIRE	
SMOKE PARTITIONS (NON FR)	
SOUND CONTROL WALLS (NON FR)	↓
OTHER WALLS	LOWER

NOTES:
WHERE WALLS OF DIFFERENT FUNCTIONS/ RATINGS INTERSECT: WALLS OF HIGHER PRIORITY SHALL BE CONTINUOUS.

LOWER PRIORITY WALLS SHALL "ABUT" AND BE "SEALED TO" HIGHER PRIORITY WALLS, BUT SHALL NOT INTERRUPT CONTINUITY OF THE HIGHER PRIORITY WALL.

8 WALL PRIORITY LEGEND
1 1/2" = 1'-0"

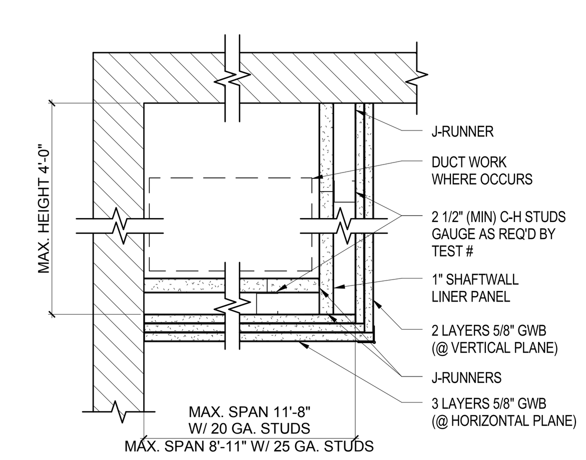


NOTE TO USER: THE MAXIMUM WIDTH & HEIGHT ARE INDICATED BY FIRE TEST. FOR EXAMPLE, THE WIDTH & HEIGHT INDICATED ARE PER NER-258 (USG'S TEST). OTHER TESTS MAY HAVE DIFFERENT LIMITATIONS. DON'T EXPECT BUILDER TO LEGALLY BUILD 2-HR ENCLOSURE THAT EXCEEDS LIMITATIONS OF TEST.

EXAMPLE APPLICATION: FOR DUCT ENCLOSURE OR BOTTOM OF MULTI-STORY SHAFT AT GROUND FLOOR MECHANICAL ROOM.

RATING INFORMATION:
FIRE RATING - 2 HOUR TEST: NER-258, WHI-495, WHI-694.0300.1

2 2 HOUR HORIZONTAL ASSEMBLY
1 1/2" = 1'-0"



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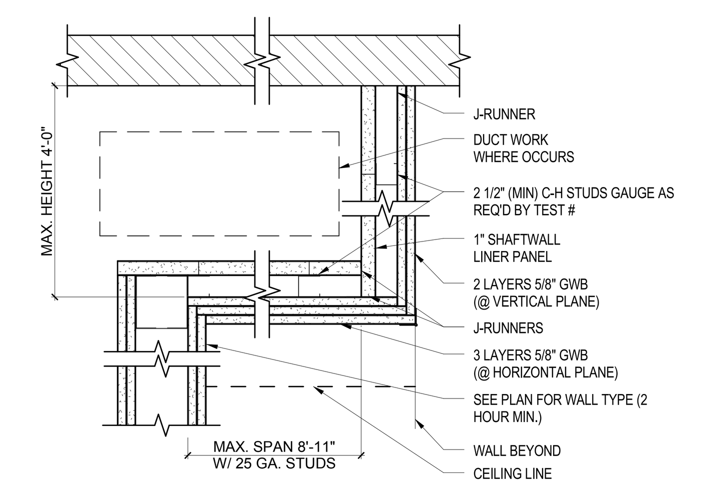
EXAMPLE APPLICATION: FOR DUCT ENCLOSURE OR BOTTOM OF MULTI-STORY SHAFT AT GROUND FLOOR MECHANICAL ROOM.

RATING INFORMATION:
FIRE RATING - 2 HOUR TEST: NER-258, WHI-495, WHI-694.0300.1

3 2 HOUR HORIZONTAL ASSEMBLY
1 1/2" = 1'-0"



NOTE TO USER: THE MAXIMUM WIDTH & HEIGHT ARE INDICATED BY FIRE TEST. FOR EXAMPLE, THE WIDTH & HEIGHT INDICATED ARE PER NER-258 (USG'S TEST). OTHER TESTS MAY HAVE DIFFERENT LIMITATIONS. DON'T EXPECT BUILDER TO LEGALLY BUILD 2-HR ENCLOSURE THAT EXCEEDS LIMITATIONS OF TEST.

EXAMPLE APPLICATION: FOR DUCT ENCLOSURE OR BOTTOM OF MULTI-STORY SHAFT AT GROUND FLOOR MECHANICAL ROOM.

RATING INFORMATION:
FIRE RATING - 2 HOUR TEST: U.L. Design No. 411, NER-258, WHI-495, WHI-694.0300.1

4 2 HOUR WALL ASSEMBLY WITH OFFSET
1 1/2" = 1'-0"

A. GENERAL NOTES:
1. SEE FLOOR PLANS FOR EXTENT OF EACH WALL TYPE. SOME WALL TYPES MAY NOT BE USED ON PROJECT.
2. WALL TYPES ARE TITLED TO GENERALLY DESCRIBE AN ASSEMBLY'S FIRE-RESISTIVE "CAPABILITY". IN SOME CASES, ARCHITECT MAY HAVE EMPLOYED A GIVEN WALL TYPE FOR ITS SOUND CONTROL OR OTHER PROPERTIES. THUS IT IS POSSIBLE THAT WALL TYPES CHOSEN MAY PROVIDE GREATER FR CAPABILITY THAN ACTUALLY REQUIRED BY BUILDING CODE. UTILIZE WALL TYPES INDICATED BY FLOOR PLAN CALL-OUTS.
3. CONTACT ARCHITECT WHERE WALLS LACK A WALL TYPE CALL-OUT.
4. "METAL STUDS" INDICATED ON THIS SHEET FOR INTERIOR PARTITIONS REFER TO THOSE SPECIFIED IN SECTION 09 22 16 / NON-STRUCTURAL METAL FRAMING. REFER TO SPECIFICATIONS FOR ADDITIONAL CRITERIA SUCH AS STUD SPACING, MINIMUM GAUGE OF METAL AND PERMISSIBLE DEFLECTION LIMITS.
5. "STC" REFERS TO SOUND TRANSMISSION CLASS; A RATING SYSTEM THAT DESCRIBES THE ABILITY OF AN ASSEMBLY TO REDUCE THE TRANSMISSION OF SOUND. CONFIGURE SOUND-RATED WALL ASSEMBLIES ACCORDING TO THE MINIMUM REQUIREMENTS STIPULATED IN THE STC TESTS LISTED.
6. "SAB" REFERS TO SOUND ATTENUATION BATTS SPECIFIED IN SECTION 09 29 00. WHERE SAB ARE INDICATED, THEY SHALL EXTEND CONTINUOUSLY FROM FLOOR TO STRUCTURE ABOVE.
7. WALLS ARE INDICATED WITH CONVENTIONAL GYPSUM WALLBOARD; UPGRADE TO PREMIUM TYPES OF WALLBOARD (I.E. MOISTURE-RESISTANT, TILE-BACKER, ETC) BASED ON THEIR LOCATION AND ACCORDING TO REQUIREMENTS OF SECTION 09 29 00.
8. HEAD-OF-WALL FIRESTOPPING AND SEALING OF THRU-WALL PENETRATIONS: REFER TO SECTION 07 84 00 / FIRESTOPPING.
9. ACOUSTICAL SEALANTS: SPECIFIED IN SECTION 09 29 00.

GENERAL NOTES

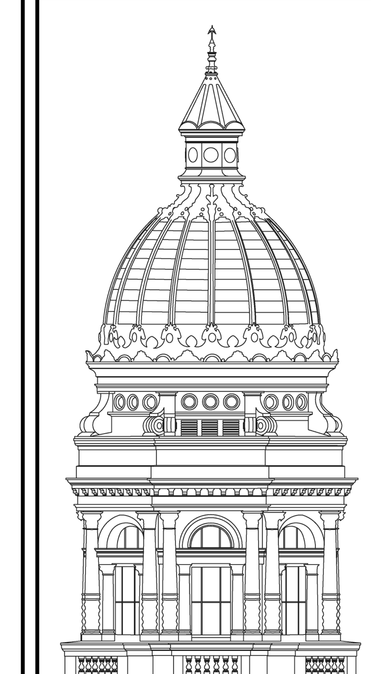
CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ONE ARCHITECTS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	
PKG. IDENTIFIER	3

INTERIOR WALL PARTITIONS

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

3AE611

Schematic Design

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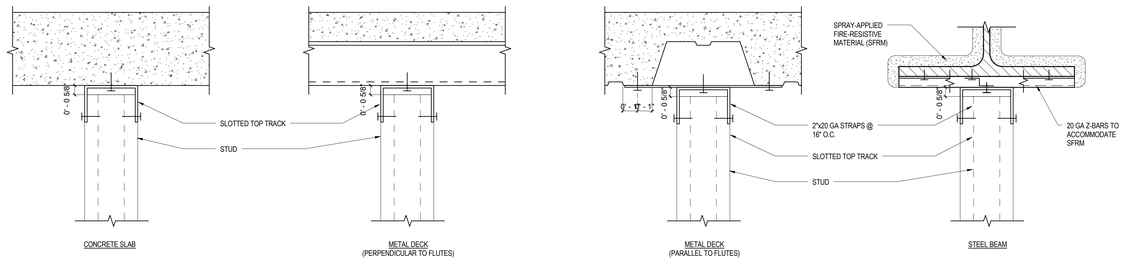
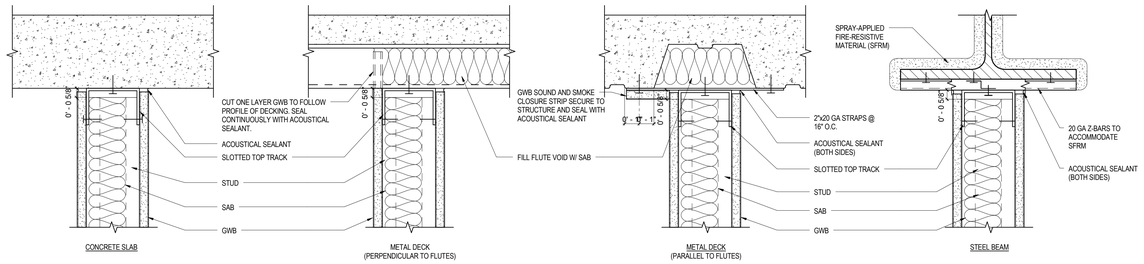


DETAIL 1C - "OTHER WALLS" - ADDITIONAL NOTES:
1. UPGRADE TO DETAIL "1A" WHERE WALL IS DESIGNATED WITH A FIRE-RESISTANCE RATING.
2. UPGRADE TO DETAIL "1B" WHERE WALL IS DESIGNATED AS A "SMOKE PARTITION" OR "SOUND-CONTROL" WALL.

HEAD-OF-WALL CONDITIONS - STUD WALLS - NON-FIRE, NON-SMOKE, NON-SOUND CONTROL WALLS

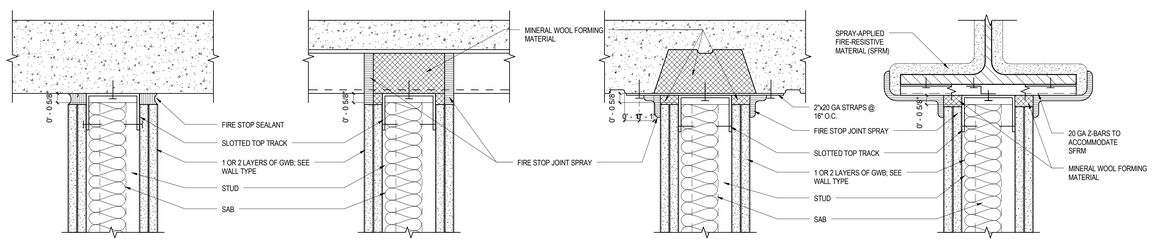
3" = 1'-0"



DETAIL 1B - "SMOKE PARTITIONS AND SOUND-CONTROL WALLS" - ADDITIONAL NOTES:
1. UPGRADE TO DETAIL "1A" WHERE WALL IS DESIGNATED WITH A FIRE-RESISTANCE RATING.
2. FILL VOIDS WITH SOUND ATTENUATION BATTS (SAB).
3. SOUND WALLS AND SMOKE PARTITIONS REQUIRE THAT AT LEAST ONE LAYER OF GWB BE CUT TO FOLLOW UNDULATING SURFACES OF SUPERSTRUCTURES INCLUDING BUT NOT LIMITED TO FLUTES METAL DECKING. JOINT GWB TO SUPERSTRUCTURE WITH A CONTINUOUS BEAD OF ACOUSTICAL SEALANT.
4. BUILDING CODE REQUIRES THAT "SMOKE PARTITIONS" BE SEALED TO STRUCTURE AS INDICATED TO SUCCESSFULLY "...LIMIT THE PASSAGE OF SMOKE....".

HEAD-OF-WALL CONDITIONS - STUD WALLS - SMOKE PARTITIONS AND SOUND CONTROL WALLS

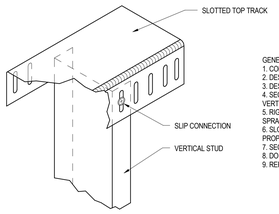
3" = 1'-0"



DETAIL 1A - "FIRE-RATED WALLS" - ADDITIONAL NOTES:
1. CONDITIONS INDICATED TO SHOW DESIGN INTENT. THEY ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR A UL-APPROVED TOP-OF-WALL DESIGNS THAT ARE APPROPRIATE FOR CONDITIONS.
2. REFER TO SECTION 07270 / FIRESTOPPING FOR ADDITIONAL REQUIREMENTS REGARDING HEAD-OF-WALL CONDITION FOR FIRE-RATED WALLS.

HEAD-OF-WALL CONDITIONS - STUD WALLS - FIRE RATED WALLS

3" = 1'-0"

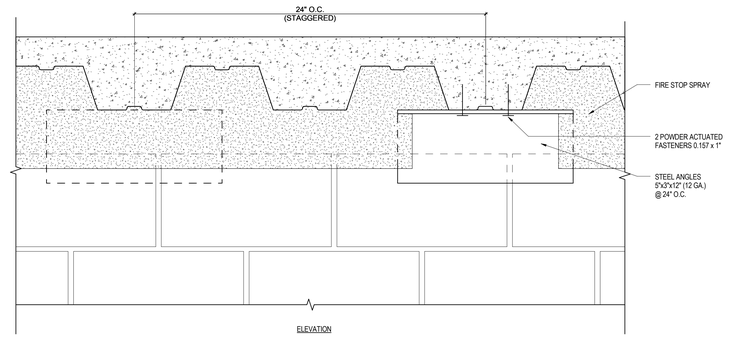


ISOMETRIC VIEW OF SLOTTED TOP TRACK

GENERAL NOTES (COMMON TO ALL DETAILS)
1. CONDITIONS INDICATED SHOW DESIGN INTENT, ESPECIALLY IN REGARD TO ACCOMMODATION OF STRUCTURAL DEFLECTION AND COMPLETING INTEGRITY OF SOUND, SMOKE AND FIRE WALLS.
2. DESIGN-INTENT DETAILS ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR HEAD-OF-WALL DESIGNS AND COMPONENTS AS APPROPRIATE FOR CONDITIONS.
3. DESIGN-INTENT DETAILS MAY NOT SHOW ALL CONDITIONS TO BE ENCOUNTERED ON SUBJECT PROJECT. COMPLY WITH MANUFACTURER AND UL-APPROVED METHODS FOR ATYPICAL CONDITIONS.
4. SECURE TOP OF INTERIOR PARTITIONS TO SUPERSTRUCTURE IN A WAY THAT PROVIDES LATERAL STABILITY (PERPENDICULAR-TO AND IN-PLANE WITH WALL) YET ALLOWING FOR UP TO 3/4 IN OF VERTICAL DEFLECTION OF THE SUPERSTRUCTURE.
5. RIGIDLY SECURE SLOTTED TOP TRACK TO BUILDING SUPERSTRUCTURE IN APPROVED MANNER. EMPLOY Z-BARS, COLD-ROLLED CHANNELS OR SIMILAR SPACERS TO ACCOMMODATE THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE MATERIALS (SFRM).
6. SLOTTED TOP TRACK, INDICATED ON THESE DETAILS, IS BASIS FOR DESIGN AND REFERS TO LONG-LEG TRACK WITH VERTICALLY SLOTTED HOLES. OPTIONAL MANUFACTURERS MAY PROVIDE SIMILAR, PROPRIETARY METHODS IN ACCORDANCE WITH PROVISIONS OF SPECIFICATION SECTION 09110.
7. SECURE VERTICAL STUDS TO TOP TRACK USING VERTICAL SLOTS IN TRACK. COMPONENTS INTENDED TO SLIDE VERTICALLY AS SUPERSTRUCTURE DEFLECTS.
8. DO NOT SCREW GYPSUM WALLBOARD TO TOP TRACK OR SUPERSTRUCTURE.
9. REFER TO SPECIFIC WALL TYPES FOR SIZE OF STUD, SAB, GWB CONDITIONS ETC.

HEAD-OF-WALL CONDITIONS - STUD WALLS - GENERAL REQUIREMENTS

3" = 1'-0"



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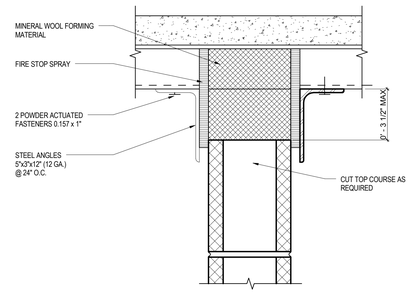
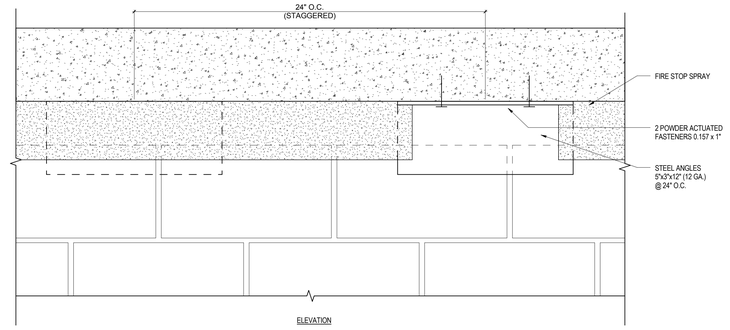


SECTION
DESIGN BASIS: UL-HW-D-1044

AT METAL DECK



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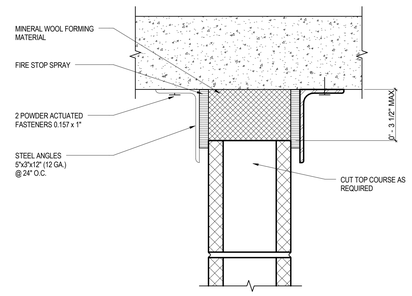

SECTION
DESIGN BASIS: UL-HW-D-1045

AT CONCRETE DECK

GENERAL NOTES | CONSTRUCTION NOTES | GRAPHIC LEGEND | KEY PLAN

2 HEAD OF WALL CONDITIONS - CMU
3" = 1'-0"

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
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PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

INTERIOR WALL PARTITIONS - DETAILS

SCALE 3" = 1'-0"

3AE613

Schematic Design

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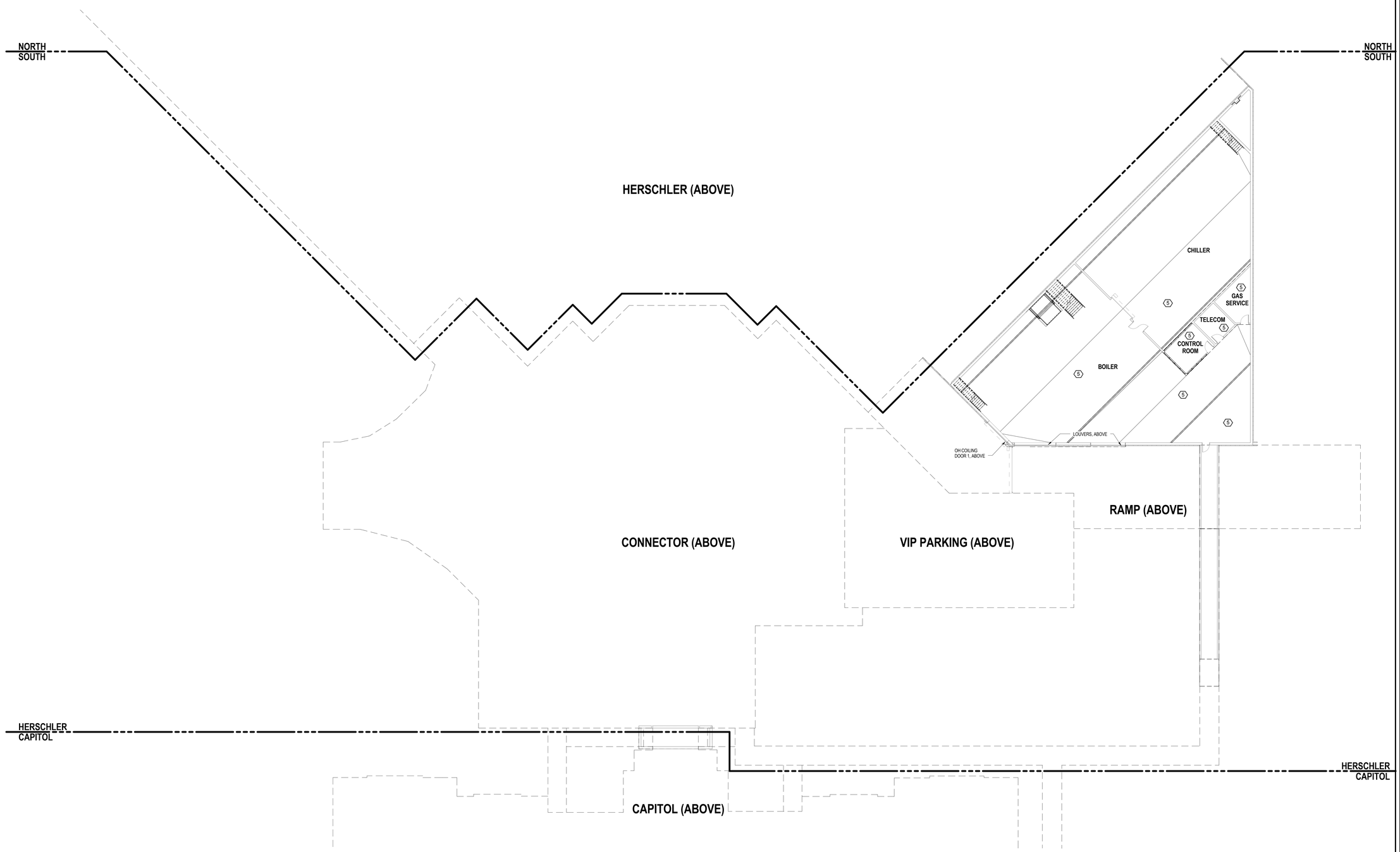

2B OVERALL FINISH PLAN - LOWER LEVEL 2 - SOUTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

DEMO GENERAL NOTES:
1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE. THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:
1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.).
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE. U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

1. **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

2. **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

3. **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

4. **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

5. **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

6. **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7. **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

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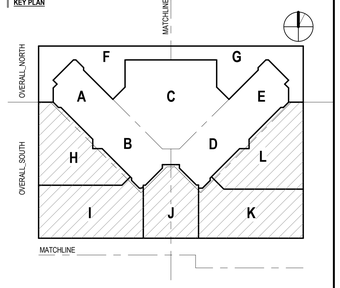
12.

GRAPHIC LEGEND

- AREA TYPE 1
- AREA TYPE 2
- AREA TYPE 3
- AREA TYPE 4
- AREA TYPE 5
- AREA TYPE 6
- PUBLIC ELEVATORS
- OFFICE ELEVATORS
- STAIR - ORNAMENTAL
- STAIR - OFFICE
- CATERING KITCHEN
- RESTROOMS

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/17/14 -
PKG. IDENTIFIER 3

OVERALL FINISH PLAN - LOWER LEVEL 2 - SOUTH

SCALE 1/16" = 1'-0"

3IN10L

Schematic Design

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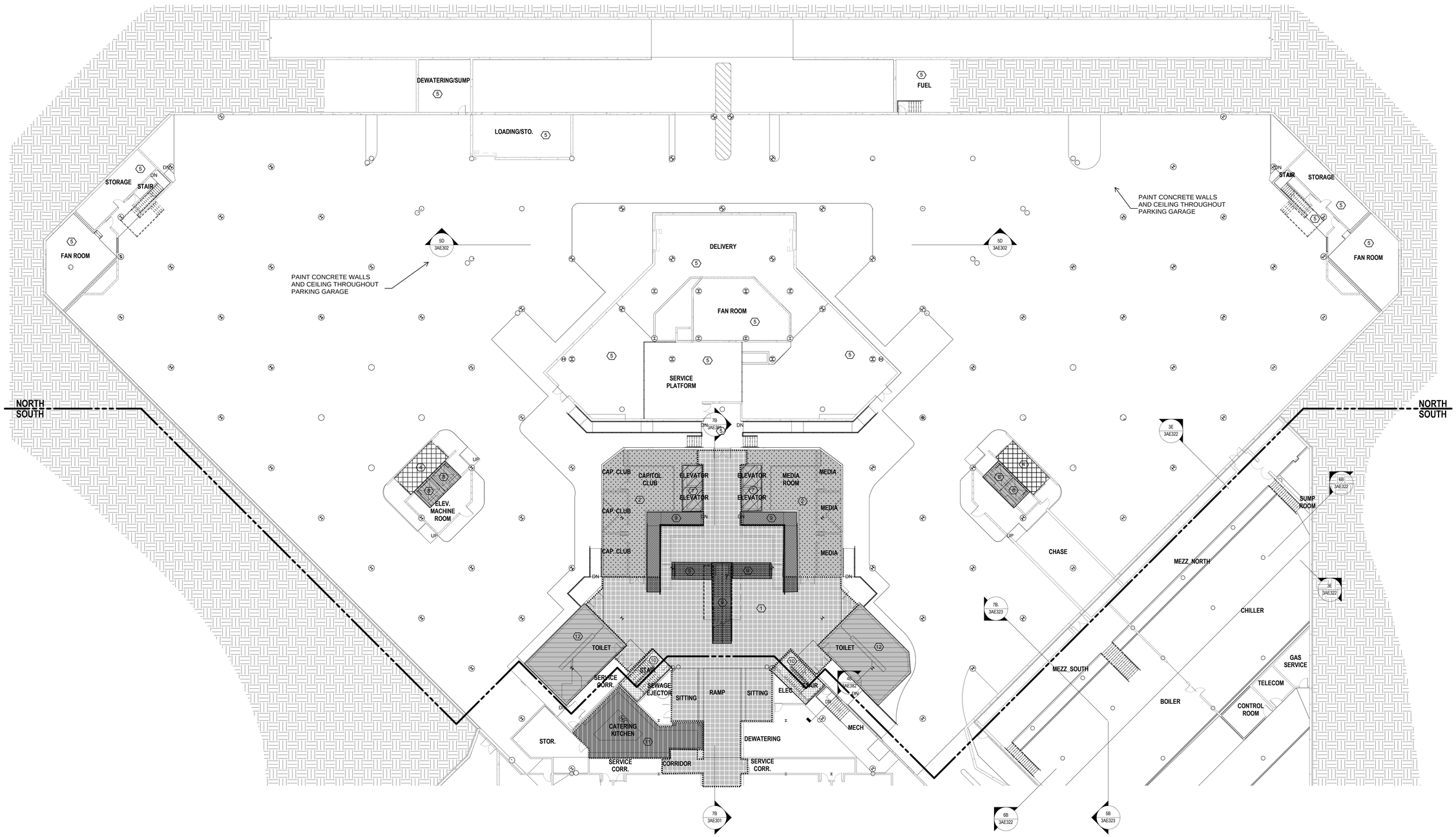

2B OVERALL FINISH PLAN - LOWER LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

DEMO GENERAL NOTES:
1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:
1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION. IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION. IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.)
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE. U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

1. **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

2. **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

3. **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

4. **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

5. **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

6. **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7. **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

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12.

GRAPHIC LEGEND

- AREA TYPE 1
- AREA TYPE 2
- AREA TYPE 3
- AREA TYPE 4
- AREA TYPE 5
- AREA TYPE 6
- PUBLIC ELEVATORS
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- STAIR - ORNAMENTAL
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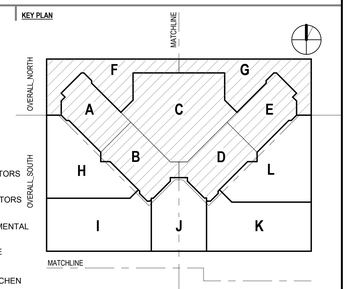
- CATERING KITCHEN
- RESTROOMS

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE
PKG. IDENTIFIER 3

OVERALL FINISH PLAN - LOWER LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3IN100

Schematic Design

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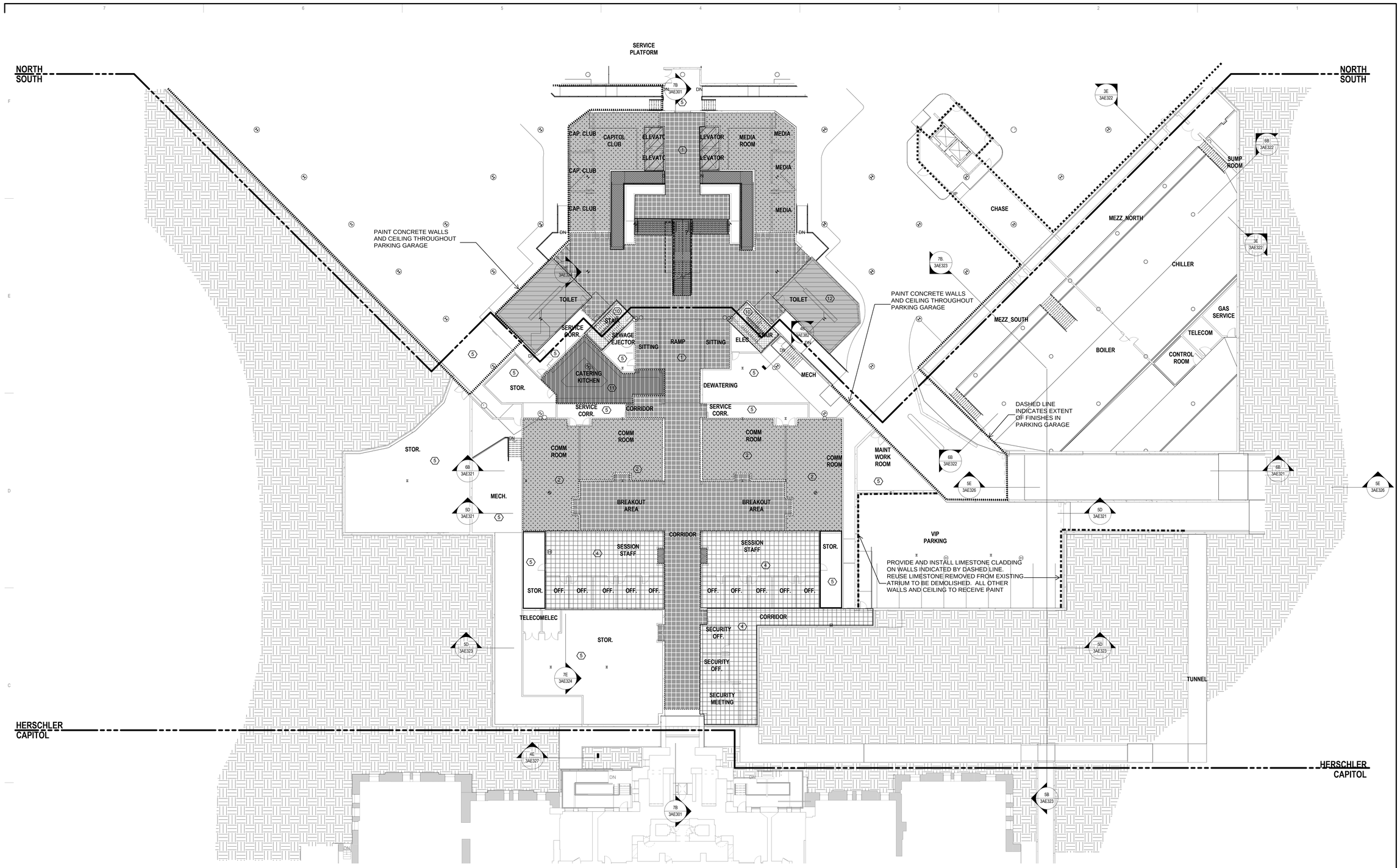
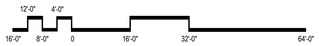


2B OVERALL FINISH PLAN - LOWER LEVEL 1 - SOUTH

1/16" = 1'-0"



GENERAL NOTES

DEMO GENERAL NOTES:
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CONSTRUCTION GENERAL NOTES:
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5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER, MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.)
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
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CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
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CONSTRUCTION NOTES

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING, 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

8 **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL, ADA COMPLIANT HAND RAILING, 1 PER CAB
•PROVIDE AND INSTALL 6" HIGH PORCELAIN TILE BASE TO MATCH FLOORING

9 **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL NATURAL STONE SLAB STAIR TREADS WITH DECORATIVE METAL RISER INSETS AND CUSTOM METAL, ADA COMPLIANT HANDRAIL
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR AND CUSWTOM METAL, ADA COMPLIANT HANDRAIL
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS

10 **STAIRS – OFFICE**
•PROVIDE AND INSTALL RESILIENT FLOORING ON EXISTING STAIR TREADS, RISERS AND LANDINGS.
•PROVIDE AND INSTALL ADA COMPLIANT METAL HANDRAIL ON EXISTING STAIRS.
•PROVIDE AND INSTALL RUBBER BASE TO MATCH FLOORING THROUGHOUT
•PROVIDE AND INSTALL SCUFFMASTER PAINT OR APPROVED EQUAL ON ALL WALLS THROUGHOUT

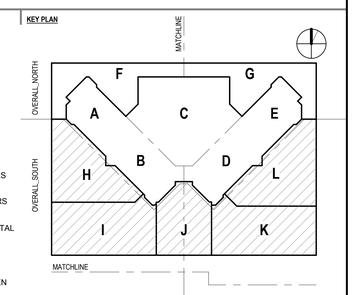
11 **CATERING KITCHEN**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CERMAMIC TILE ON ALL WALLS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM PLASTIC LAMINATE MILLWORK WITH SOLID SURFACE COUNTERTOPS IN 25% OF SPACE.

12 **RESTROOMS**
•PROVIDE AND INSTALL NATURAL STONE TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL PORCELAIN TILE TO 4'-0" AFF THROUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING FROM 4'-0" AFF TO CEILING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL TOILET PARTITIONS – SUPPORT OFF WALLS
•PROVIDE AND INSTALL GRANITE COUNTERTOPS AT ALL VANITIES, WITH TUBE STEEL SUPPORTS IN WALL TO SUPPORT COUNTERTOP. PROVIDE STAINLESS STEEL, UNDERMOUNT SINKS WITH TOUCHLESS FAUCETS AND SOAP DISPNESERS.
•PROVIDE AND INSTALL ALL ADA COMPLIANT GRAB BARS, ACCESSORIES, PAPER TOWEL DISPNESERS, DIAPER CHANGING STATIONS (STAINLESS STEEL), AND TRASH RECEPTACLES
•PROVIDE AND INSTALL 1 FULL HEIGHT MIRROR AT EACH RESTROOM

GRAPHIC LEGEND

- AREA TYPE 1
- AREA TYPE 2
- AREA TYPE 3
- AREA TYPE 4
- AREA TYPE 5
- AREA TYPE 6
- PUBLIC ELEVATORS
- OFFICE ELEVATORS
- STAIR - ORNAMENTAL
- STAIR - OFFICE
- CATERING KITCHEN
- RESTROOMS

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/17/14 -
PKG. IDENTIFIER 3

OVERALL FINISH PLAN - LOWER LEVEL 1 - SOUTH

SCALE 1/16" = 1'-0"

3IN101

Schematic Design

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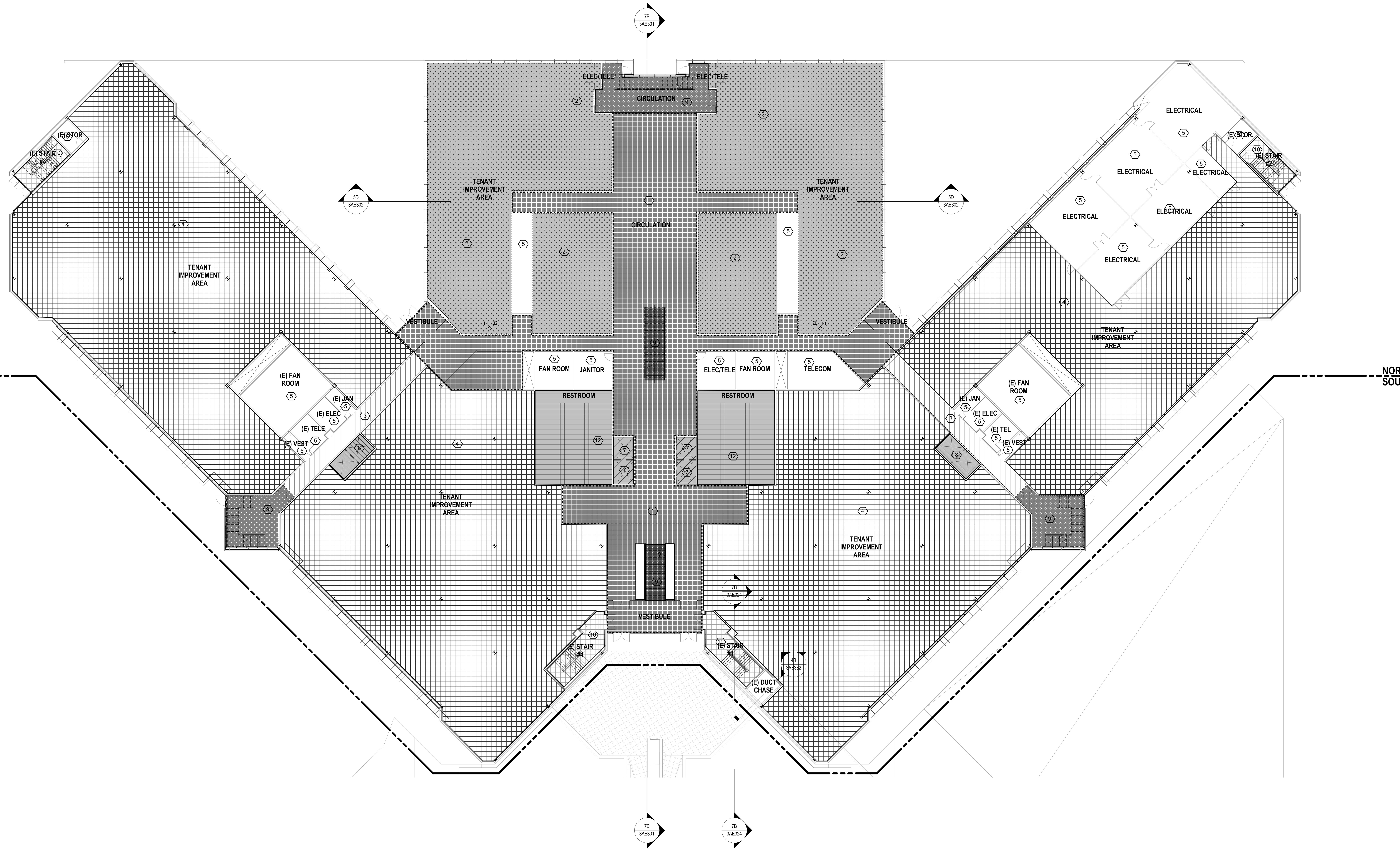


2B OVERALL FINISH PLAN - LEVEL 1 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

DEMO GENERAL NOTES:
1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:
1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.)
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE, U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

(1) **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUILDING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(2) **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(3) **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(4) **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(5) **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

(6) **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

(7) **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

(8) **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 6" HIGH PORCELAIN TILE BASE TO MATCH FLOORING

(9) **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL NATURAL STONE SLAB STAIR TREADS WITH DECORATIVE METAL RISER INSETS AND CUSTOM METAL, ADA COMPLIANT HANDRAIL.
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR AND CUSWTOM METAL, ADA COMPLAINT HANDRAIL
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS

(10) **STAIRS – OFFICE**
•PROVIDE AND INSTALL RESILIENT FLOORING ON EXISTING STAIR TREADS, RISERS AND LANDINGS.
•PROVIDE AND INSTALL ADA COMPLIANT METAL HANDRAIL ON EXISTING STAIRS.
•PROVIDE AND INSTALL RUBBER BASE TO MATCH FLOORING THROUGHOUT
•PROVIDE AND INSTALL SCUFFMASTER PAINT OR APPROVED EQUAL ON ALL WALLS THROUGHOUT

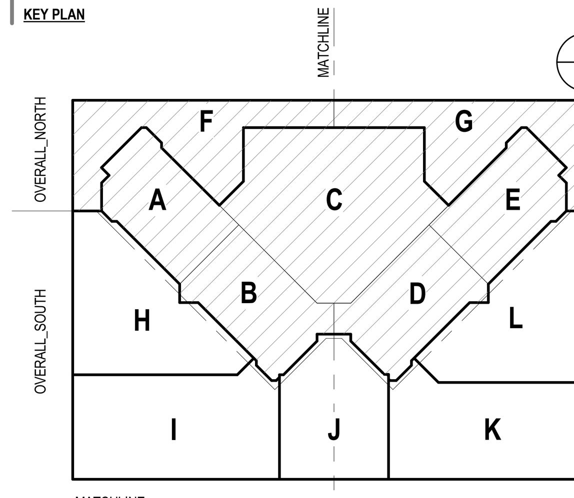
(11) **CATERING KITCHEN**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CERMAMIC TILE ON ALL WALLS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM PLASTIC LAMINATE MILLWORK WITH SOLID SURFACE COUNTERTOPS IN 25% OF SPACE.

(12) **RESTROOMS**
•PROVIDE AND INSTALL NATURAL STONE TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL PORCELAIN TILE TO 4'-0" AFF THROUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING FROM 4'-0" AFF TO CEILING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL TOILET PARTITIONS – SUPPORT OFF WALLS
•PROVIDE AND INSTALL GRANITE COUNTERTOPS AT ALL VANITIES, WITH TUBE STEEL SUPPORTS IN WALL TO SUPPORT COUNTERTOP. PROVIDE STAINLESS STEEL, UNDERMOUNT SINKS WITH TOUCHLESS FAUCETS AND SOAP DISPNESERS.
•PROVIDE AND INSTALL ALL ADA COMPLIANT GRAB BARS, ACCESSORIES, PAPER TOWEL DISPNESERS, DIAPER CHANGING STATIONS (STAINLESS STEEL), AND TRASH RECEPTACLES
•PROVIDE AND INSTALL 1 FULL HEIGHT MIRROR AT EACH RESTROOM

GRAPHIC LEGEND

- AREA TYPE 1
- AREA TYPE 2
- AREA TYPE 3
- AREA TYPE 4
- AREA TYPE 5
- AREA TYPE 6
- PUBLIC ELEVATORS
- OFFICE ELEVATORS
- STAIR - ORNAMENTAL
- STAIR - OFFICE
- CATERING KITCHEN
- RESTROOMS

KEY PLAN



State of Wyoming

Administration & Information
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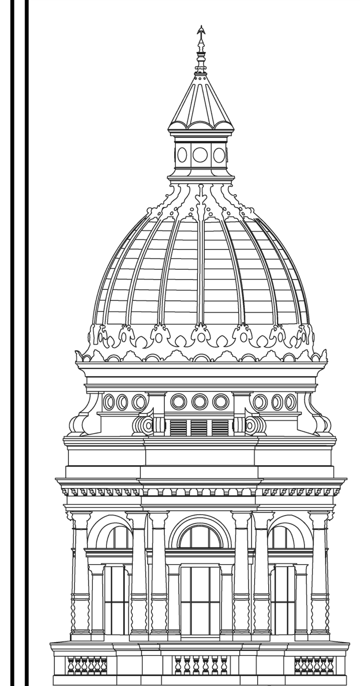

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	10/17/14 -
PKG. IDENTIFIER	3

OVERALL FINISH PLAN - LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3IN110

Schematic Design

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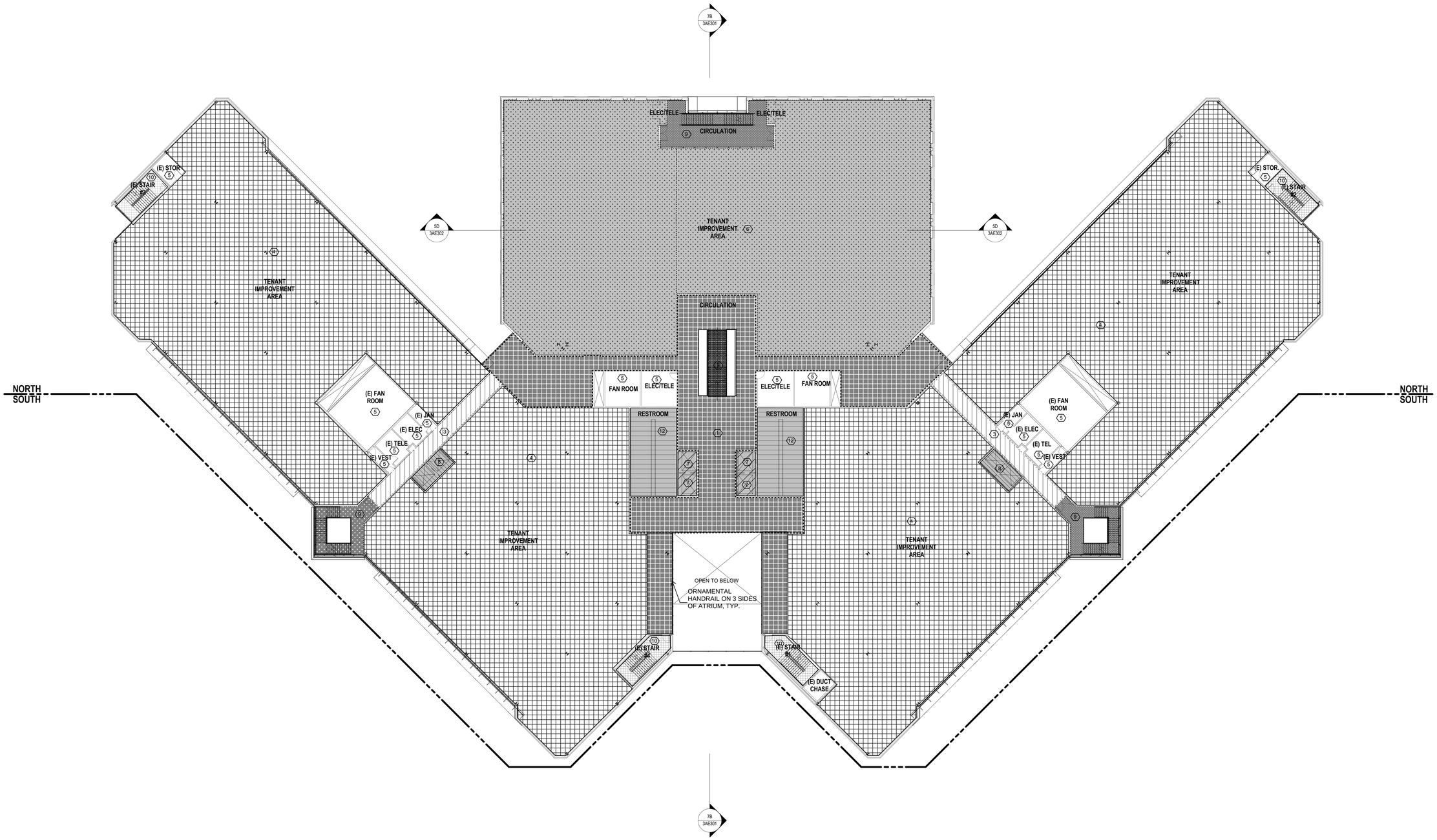


2B OVERALL FINISH PLAN - LEVEL 2 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

DEMO GENERAL NOTES:
1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:
1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.).
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE, U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONTD):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

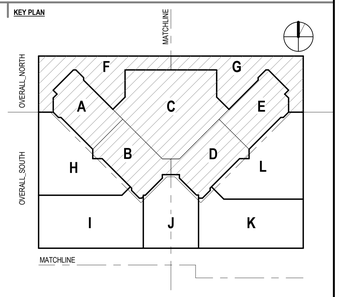
THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING, 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

GRAPHIC LEGEND

8 AREA TYPE 1
AREA TYPE 2
AREA TYPE 3
AREA TYPE 4
AREA TYPE 5
AREA TYPE 6
PUBLIC ELEVATORS
OFFICE ELEVATORS
STAIR - ORNAMENTAL
STAIR - OFFICE
CATERING KITCHEN
RESTROOMS

KEY PLAN



State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER 203619
ORIGINAL ISSUE 10/17/14 -
PKG. IDENTIFIER 3

OVERALL FINISH PLAN - LEVEL 2 - NORTH

SCALE 1/16" = 1'-0"

3IN120

Schematic Design

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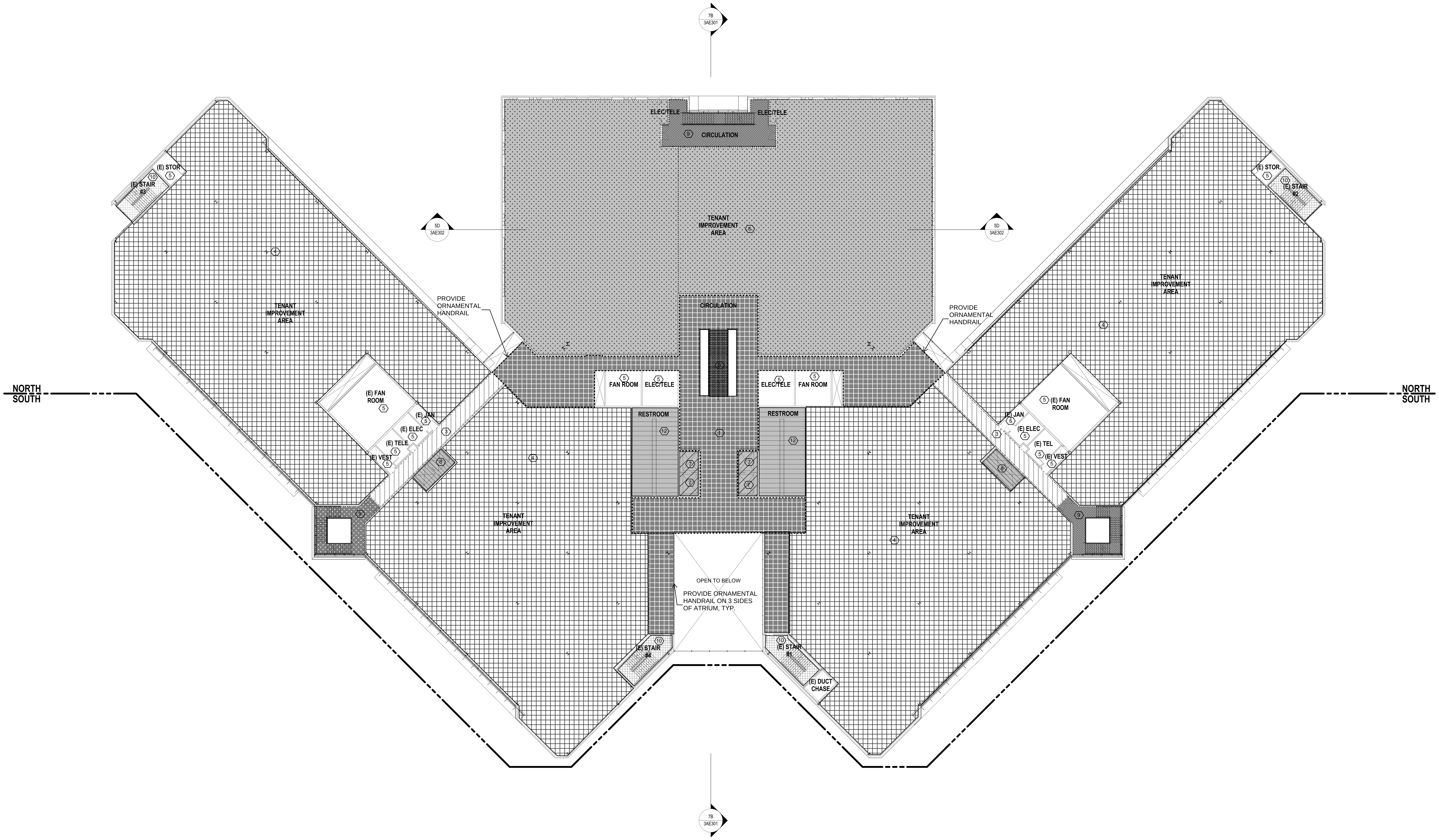
State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ONE ARCHITECTS



2B OVERALL FINISH PLAN - LEVEL 3 - NORTH
1/16" = 1'-0"

16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	10/17/14 -
PKG. IDENTIFIER	3

OVERALL FINISH PLAN - LEVEL 3 - NORTH

SCALE 1/16" = 1'-0"

3IN130

Schematic Design

GENERAL NOTES

DEMO GENERAL NOTES:

1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:

1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.)
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE, U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

(1) **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(2) **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(3) **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(4) **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

(5) **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

(6) **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

(7) **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

(8) **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 6" HIGH PORCELAIN TILE BASE TO MATCH FLOORING

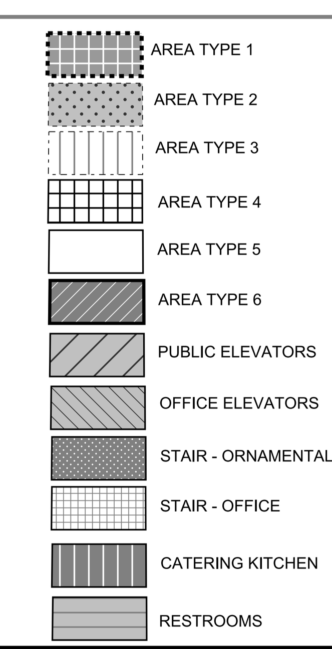
(9) **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL NATURAL STONE SLAB STAIR TREADS WITH DECORATIVE METAL RISER INSETS AND CUSTOM METAL, ADA COMPLIANT HANDRAIL.
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR AND CUSWTOM METAL, ADA COMPLAINT HANDRAIL
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS

(10) **STAIRS – OFFICE**
•PROVIDE AND INSTALL RESILIENT FLOORING ON EXISTING STAIR TREADS, RISERS AND LANDINGS.
•PROVIDE AND INSTALL ADA COMPLIANT METAL HANDRAIL ON EXISTING STAIRS.
•PROVIDE AND INSTALL RUBBER BASE TO MATCH FLOORING THROUGHOUT
•PROVIDE AND INSTALL SCUFFMASTER PAINT OR APPROVED EQUAL ON ALL WALLS THROUGHOUT

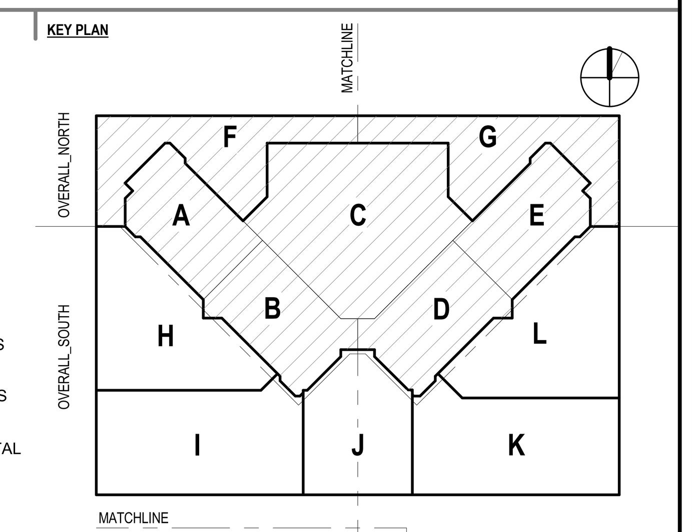
(11) **CATERING KITCHEN**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CERMAMIC TILE ON ALL WALLS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM PLASTIC LAMINATE MILLWORK WITH SOLID SURFACE COUNTERTOPS IN 25% OF SPACE.

(12) **RESTROOMS**
•PROVIDE AND INSTALL NATURAL STONE TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL PORCELAIN TILE TO 4'-0" AFF THROUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING FROM 4'-0" AFF TO CEILING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL TOILET PARTITIONS – SUPPORT OFF WALLS
•PROVIDE AND INSTALL GRANITE COUNTERTOPS AT ALL VANITIES, WITH TUBE STEEL SUPPORTS IN WALL TO SUPPORT COUNTERTOP. PROVIDE STAINLESS STEEL, UNDERMOUNT SINKS WITH TOUCHLESS FAUCETS AND SOAP DISPNESERS.
•PROVIDE AND INSTALL ALL ADA COMPLIANT GRAB BARS, ACCESSORIES, PAPER TOWEL DISPNESERS, DIAPER CHANGING STATIONS (STAINLESS STEEL), AND TRASH RECEPTACLES
•PROVIDE AND INSTALL 1 FULL HEIGHT MIRROR AT EACH RESTROOM

GRAPHIC LEGEND



KEY PLAN



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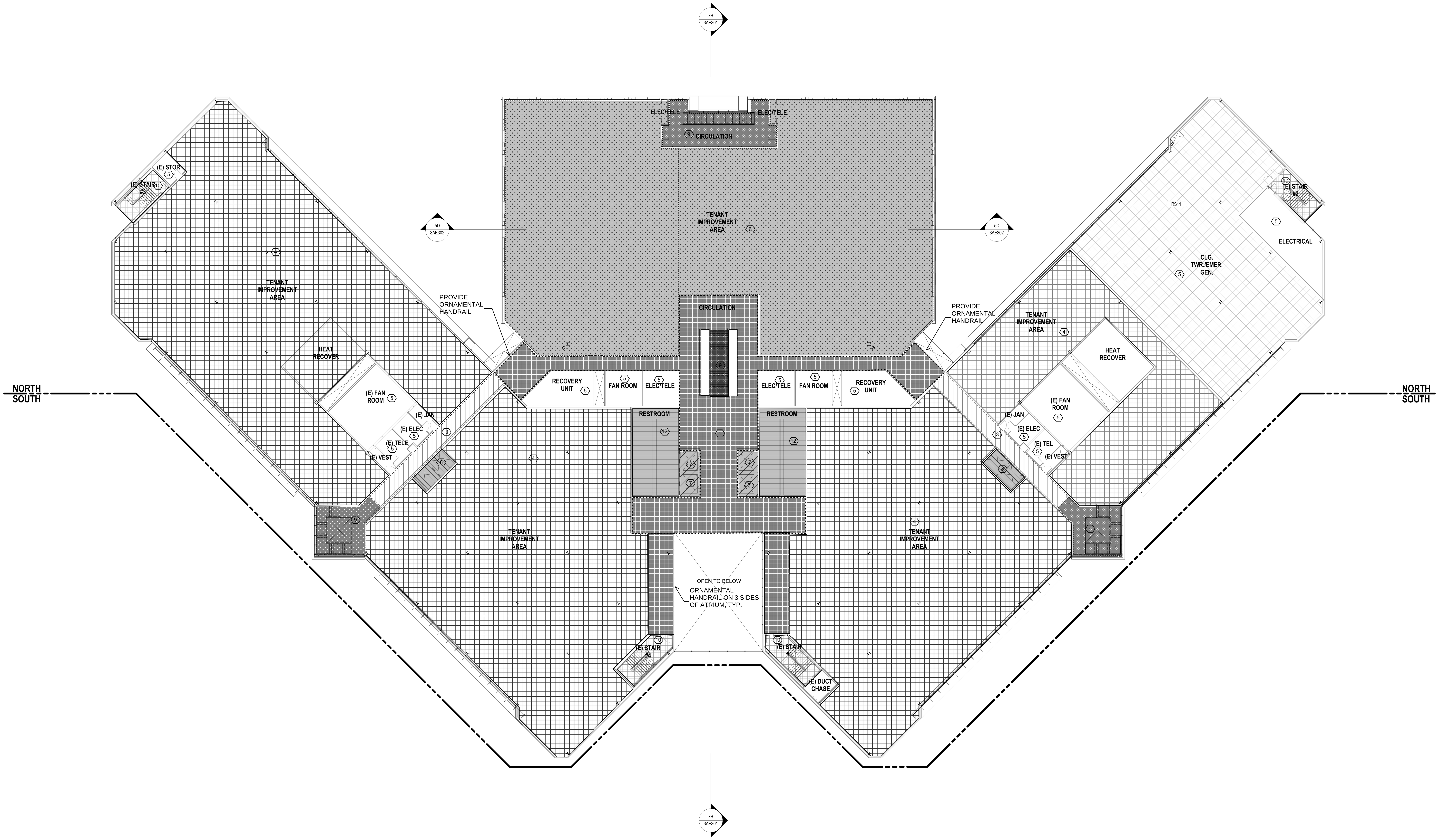


2B OVERALL FINISH PLAN - LEVEL 4 - NORTH

1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

DEMO GENERAL NOTES:
1. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO PROVIDE A GUIDE FOR DEMOLITION WORK IN THIS SPACE THE CONTRACTOR SHALL PROCEED WITH CAUTION AND INVESTIGATE ALL EXISTING CONDITIONS THOROUGHLY. ANY DISCREPANCIES BETWEEN ASSUMED AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. ALL MISCELLANEOUS NAILS, HANGERS, STAPLES, WIRES, AND WIRE CONDUIT SHALL BE REMOVED IN ALL EXPOSED AREAS TO REMAIN. PREPARE WALL FOR NEW FINISHES
3. ALL ABANDONED CONDUIT AND CABLE SHALL BE REMOVED FROM THE PROJECT AREA.
4. CONTRACTOR TO REMOVE EXISTING CARPET AND BASE AND PATCH FLOOR AS REQUIRED TO INSTALL NEW FLOORING THOUGHOUT.
5. CONTRACTOR TO SALVAGE PORTION OF STONE SLAB FROM DEMOLITION OF EXISTING ATRIUM AND SALVAGE FOR REUSE (AMOUNT TO BE DETERMINED).

CONSTRUCTION GENERAL NOTES:
1. CONTRACTOR TO PROVIDE LEVEL 4 FINISHED SURFACE ON ALL EXISTING DRYWALL PERIMETER AND CORE WALLS.
2. CONTRACTOR TO PROVIDE LEVEL 5 FINISH AT ALL DRYWALL CEILINGS.
3. ALL NEW PARTITIONS ADJOINING PERIMETER WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
4. ALL NEW PARTITIONS ADJOINING EXISTING CORE WALLS TO HAVE VERTICAL SLIP JOINT CONNECTION, IF APPLICABLE.
5. ALL HOLES IN SLABS ARE TO BE FILLED WITH CODE COMPLIANT FILLER. MAINTAIN THE EXISTING FLOOR SLAB RATING AT ALL FLOOR SLAB PENETRATIONS AS REQUIRED BY UL DESIGN GUIDELINES.
6. FRAME AROUND DUCTWORK AS REQUIRED AT WALLS TO DECK AND GRID BREAK PARTITIONS.
7. ALL PARTITIONS WITHIN WET AREAS SHALL BE WATER RESISTANT GYPSUM WALLBOARD (I.E. PANTRY SINK AREAS, RESTROOMS, ETC.)
BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.
8. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL BLOCKING IN WALLS AS REQUIRED FOR SECURE INSTALLATION OF ALL MILLWORK, DOORS, WINDOWS AND ACCESSORIES.
9. CONTRACTOR TO LEVEL FLOOR AS REQUIRED TO INSTALL NEW FINISHES.
10. ALL CARPETED AREAS TO RECEIVE 4" STRAIGHT BASE. ALL RESILIENT FLOORING AREAS TO RECEIVE 4" COVED BASE, U.N.O.
11. PROVIDE AND INSTALL SCHLUTER SCHEINE OR EQUAL AT ALL TRANSITIONS BETWEEN CARPET AND HARD SURFACE FLOORING, STAINLESS STEEL 304 FINISH. CONTRACTOR TO SUBMIT PRODUCT CUT SHEET FOR ARCHITECT'S APPROVAL.

CONSTRUCTION GENERAL NOTES (CONT'D):

12. PROVIDE AND INSTALL MATCHING RESILIENT TRANSITION STRIP AT ALL TRANSITIONS BETWEEN CARPET AND RESILIENT FLOORING, UNLESS NOTED OTHERWISE.
13. ALL PAINTED WALL SURFACES ARE TO BE PAINTED WITH TWO COATS OF PAINT AND ONE COAT OF PRIMER ON ALL NEW WALLS. ALL AREAS IN WHICH ANY ALTERATION OR CONSTRUCTION IS REQUIRED AS SHOWN ON PLAN WILL RECEIVE ONE COAT TINTED PRIMER AND ONE OR TWO FINISH COATS OF PAINT TO ACHIEVE UNIFORM FINISH.
14. CONTRACTOR TO PROVIDE MOCK-UPS OF ALL PAINT, FABRIC WALL PANELS, AND WALL COVERINGS FOR ARCHITECT'S APPROVAL.
15. CONTRACTOR TO SUBMIT CARPET SEAMING DIAGRAM FOR ARCHITECT'S APPROVAL. SEAMS ALONG THE LENGTH OF HALLWAYS AND OTHER CONSPICUOUS AREAS ARE TO BE AVOIDED.
16. ALL STONE SURFACES TO BE SEALED WITH CLEAR PENETRATING SEALER PER MANUFACTURERS INSTRUCTIONS.
17. FOR ALL GLASS, METALLIC OR OTHER SPECIALTY WALL OR FLOOR TILES, CONTRACTOR TO SUBMIT (2) 9" X 9" MINIMUM MOCK-UPS FOR EACH SPECIFIED TILE.
18. FLAME SPREAD: ALL FINISH MATERIALS AND ASSEMBLIES ATTACHED TO INTERIOR WALLS OF EXIT ENCLOSURES TO BE CLASS B OR BETTER. FINISH MATERIALS AT ALL OTHER INTERIOR WALLS TO BE CLASS C OR BETTER.
19. PROVIDE AND INSTALL AS REQUIRED, MECHO SHADE TYPE WINDOW COVERING THROUGHOUT BUILDING.
20. ALL WOOD MILLWORK TO BE AWI PREMIUM GRADE. ALL PLASTIC LAMINATE MILLWORK TO BE AWI CUSTOM GRADE.
21. ALL WOOD PANELLING AND MOLDING TO BE AWI GRADE A CHERRY WITH TRANSPARENT STAIN TO MATCH ARCHITECT'S SAMPLE.

CONSTRUCTION NOTES

1 **AREA TYPE 1:** INCLUDED IN CORE/SHELL PACKAGE (GREAT HALL, COMMITTEE ROOMS, BREAKOUT AREAS, MAIN PUBLIC SPACES)
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS
•PROVIDE AND INSTALL ACOUSTICAL FABRIC PANELS WITH WOOD DECORATIVE MOLDING AT ALL WALLS IN THIS AREA
•PROVIDE AND INSTALL CONTINUOUS, RECESSED METAL ART RAIL ALONG ENTIRE CORRIDOR LENGTH, BOTH SIDES.
•PROVIDE AND INSTALL RATED FIRELITE TYPE GLASS DOORS OR EQUAL AND AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

2 **AREA TYPE 2:** INCLUDED IN CORE/SHELL PACKAGE (CAPITOL CLUB, MEDIA ROOMS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL 4" WOOD CHAIR RAIL THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

3 **AREA TYPE 3:** INCLUDED IN CORE/SHELL PACKAGE (OFFICE CORRIDORS)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 8" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL RATED FIRELITE SIDELIGHTS AS REQUIRED TO MEET BUIDLING CODE
•PROVIDE AND INSTALL SOLID CORE PREMIUM QUALITY WOOD DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

4 **AREA TYPE 4:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (SESSION OFFICES, OPEN OFFICE AREAS)
SPACE WILL CONSIST OF 40% OFFICES AND 60% OPEN OFFICE AREA
•PROVIDE AND INSTALL CARPET, $45 PER SQ YD INSTALLED, WITH 4" HIGH RUBBER BASE, THOUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING IN 25% OF ALL OFFICE SPACES
•PROVIDE AND INSTALL ACCENT PAINT COLOR ON 1 WALL IN ALL PRIVATE OFFICES
•ALL WOOD DOORS TO BE SOLID CORE PREMIUM QUALITY WOOD WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES AND LATCH SET FOR ALL MEETING/ CONFERENCE ROOMS
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

5 **AREA TYPE 5:** INCLUDED IN CORE/SHELL PACKAGE (STORAGE AND UTILITY ROOMS)
•PROVIDE AND INSTALL SEALED CONCRETE WITH HIGH TRAFFIC COATING THROUGHOUT
•PROVIDE AND INSTALL PAINT THROUGHOUT
•PROVIDE AND INSTALL PAINTED HOLLOW METAL DOORS WITH HOLLOW METAL FRAMES
•PROVIDE AND INSTALL LEVER HANDLE, SOLID METAL LOCKSET FOR ALL OFFICES, STORAGE AND UTILITY ROOMS

6 **AREA TYPE 6:** INCLUDED IN TENANT FINISH PACKAGE – TO BE ISSUED AS A SEPARATE SET OF DOCUMENTS (CONFERENCE FACILITIES, LEGISLATOR OFFICES)
•PROVIDE AND INSTALL CARPET, $55 PER SQ YD INSTALLED, WITH 12" HIGH WOOD BASE WITH REVEALS, THOUGHOUT
•ALL WALLS TO HAVE AN STC RATING OF 45 OR GREATER
•PROVIDE AND INSTALL VINYL WALLCOVERING THOUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD DOORS WITH TRANSPARENT FINISH WITH GRADE A FACES, RAISED MOLDING AND CUSTOM WOOD FRAMES THROUGHOUT
•PROVIDE AND INSTALL SEMI-CUSTOM – SOLID METAL FINISH DOOR HARDWARE THROUGHOUT, NO SPRAY ON METAL FINISHES WILL BE ACCEPTABLE
•ALL DOORS REQUIRING CLOSURES TO HAVE CONCEALED HARDWARE AT HEADER OR RECESSED IN FLOOR

THE FOLLOWING WILL BE INCLUDED IN CORE/SHELL PACKAGE:

7 **ELEVATOR CABS - PUBLIC**
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR WITH DECORATIVE METAL INSETS
•PROVIDE AND INSTALL CUSTOM METAL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 1'-0" H NATURAL STONE BASE TO MATCH FLOORING WITH CUT REVEALS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT

8 **ELEVATOR CABS – OFFICE**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CUSTOM WOOD PANELING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL, ADA COMPLIANT HAND RAILING. 1 PER CAB
•PROVIDE AND INSTALL 6" HIGH PORCELAIN TILE BASE TO MATCH FLOORING

9 **STAIRS – ORNAMENTAL**
•PROVIDE AND INSTALL NATURAL STONE SLAB STAIR TREADS WITH DECORATIVE METAL RISER INSETS AND CUSTOM METAL, ADA COMPLIANT HANDRAIL.
•PROVIDE AND INSTALL NATURAL STONE TILE OR POURED-IN-PLACE TERRAZZO FLOOR AND CUSWTOM METAL, ADA COMPLIANT HANDRAIL
•PROVIDE AND INSTALL 2'-0" H STONE BASE TO MATCH FLOORING WITH CUT REVEALS

10 **STAIRS – OFFICE**
•PROVIDE AND INSTALL RESILIENT FLOORING ON EXISTING STAIR TREADS, RISERS AND LANDINGS.
•PROVIDE AND INSTALL ADA COMPLIANT METAL HANDRAIL ON EXISTING STAIRS.
•PROVIDE AND INSTALL RUBBER BASE TO MATCH FLOORING THROUGHOUT
•PROVIDE AND INSTALL SCUFFMASTER PAINT OR APPROVED EQUAL ON ALL WALLS THROUGHOUT

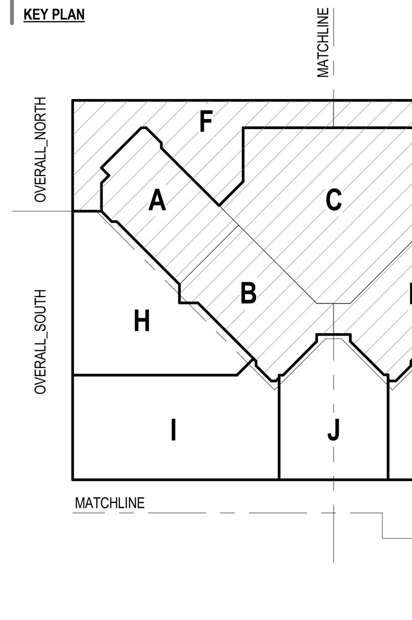
11 **CATERING KITCHEN**
•PROVIDE AND INSTALL PORCELAIN TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL CERMAMIC TILE ON ALL WALLS THROUGHOUT
•PROVIDE AND INSTALL CUSTOM PLASTIC LAMINATE MILLWORK WITH SOLID SURFACE COUNTERTOPS IN 25% OF SPACE.

12 **RESTROOMS**
•PROVIDE AND INSTALL NATURAL STONE TILE FLOOR THROUGHOUT
•PROVIDE AND INSTALL PORCELAIN TILE TO 4'-0" AFF THROUGHOUT
•PROVIDE AND INSTALL VINYL WALLCOVERING FROM 4'-0" AFF TO CEILING THROUGHOUT
•PROVIDE AND INSTALL STAINLESS STEEL TOILET PARTITIONS – SUPPORT OFF WALLS
•PROVIDE AND INSTALL GRANITE COUNTERTOPS AT ALL VANITIES, WITH TUBE STEEL SUPPORTS IN WALL TO SUPPORT COUNTERTOP. PROVIDE STAINLESS STEEL, UNDERMOUNT SINKS WITH TOUCHLESS FAUCETS AND SOAP DISPNESERS.
•PROVIDE AND INSTALL ALL ADA COMPLIANT GRAB BARS, ACCESSORIES, PAPER TOWEL DISPNESERS, DIAPER CHANGING STATIONS (STAINLESS STEEL), AND TRASH RECEPTACLES
•PROVIDE AND INSTALL 1 FULL HEIGHT MIRROR AT EACH RESTROOM

GRAPHIC LEGEND

- AREA TYPE 1
- AREA TYPE 2
- AREA TYPE 3
- AREA TYPE 4
- AREA TYPE 5
- AREA TYPE 6
- PUBLIC ELEVATORS
- OFFICE ELEVATORS
- STAIR - ORNAMENTAL
- STAIR - OFFICE
- CATERING KITCHEN
- RESTROOMS

KEY PLAN



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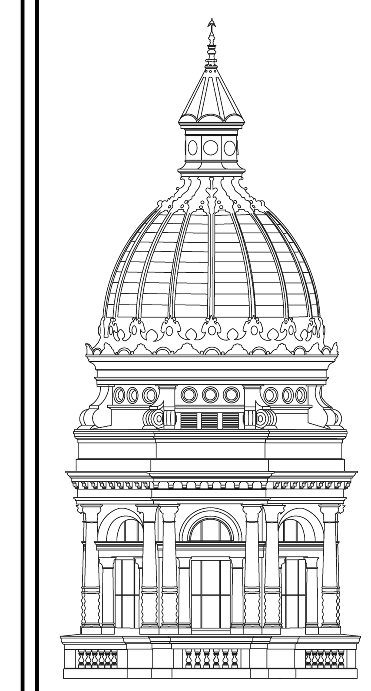

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	203619
ORIGINAL ISSUE	10/17/14 -
PKG. IDENTIFIER	3

OVERALL FINISH PLAN - LEVEL 4 - NORTH

SCALE	1/16" = 1'-0"

3IN140

Schematic Design

PLUMBING SYMBOLS

SAN	SOIL OR WASTE ; S/W
SAN	SOIL AND WASTE BELOW GRADE ; S/W
ST	STORM DRAIN ; SD
ST	STORM DRAIN BELOW GRADE ; SD
	VENT ; V
	COLD WATER ; CW
105°	HOT WATER (105 F) ; HW
105°	HOT WATER CIRCULATION (105 F) ; HWC
140°	HOT WATER (140 F) ; HW
140°	HOT WATER CIRCULATION (140 F) ; HWC
G	GAS ; G
PD	PUMP DISCHARGE
	FLOW IN DIRECTION OF ARROW
	HEAT TRACING
SAN	PIPING TO BE DEMOLISHED
	EQUIPMENT TO BE DEMOLISHED
M	MOTORIZED CONTROL VALVE
	GATE VALVE
	SWING CHECK VALVE
	BALL VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
PS	PRESSURE RELIEF VALVE
	BALANCING VALVE
	GAS COCK
	PIPE END CAP
	ISOLATION VALVE
RPZA	REDUCED PRESSURE ZONE ASSEMBLY
DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
	FLOOR DRAIN
	ROOF DRAIN
MGCV	MASTER GAS CONTROL VALVE ;MGCV
	RECESSED BOX HOSE BIBB OR WALL HYDRANT
	COMPOUND TYPE WATER METER
	FLOW-IN DIRECTION OF ARROW
	LINE BREAK
	THERMOMETER
	PRESSURE GAUGE WITH GAUGE COCK
	VALVE ON RISE
	PIPE SLEEVE
F	FILTER
	PIPE UP THRU FLOOR OR CEILING
	PIPE DROP/RISE THRU FLOOR OR CEILING
	TRAP
	NON-FREEZE WALL HYDRANT
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	H-STRAINER
	HOSE BIBB W/VACUUM BREAKER
	DRAIN BIBB
	PRESSURE RELIEF VALVE ; PRV
	THERMOSTATIC MIXING VALVE
	GAS PRESSURE REGULATOR
	CLEAN OUT
	WALL CLEAN OUT
	CAP OR PLUG
	STRAINER
	REDUCER/INCREASER
	CLEAN OUT DECK PLATE ; CODP
	WATER HAMMER ARRESTOR ;WHA
SAN	SANITARY STACK DESIGNATION
G	GAS RISER DESIGNATION
ST	STORM LEADER DESIGNATION
	UNION
	AQUASTAT
# / #	DETAIL CALLOUT WITH SHEET #

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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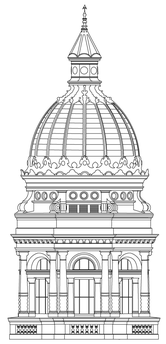
Construction Management



Capitol Square
Rehabilitation and Restoration

HDR PDP

LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	
ORIGINAL ISSUE	08/28/14 -
PKG. IDENTIFIER	

PLUMBING SYMBOL LIST

SCALE 1/2" = 1'-0"

3PI001

Schematic Design

GENERAL NOTES:

1. ALL GAS PIPING, INCLUDING VALVES, GAS METER AND REGULATORS SHALL MEET ALL UTILITY REQUIREMENTS.
2. ALL GAS, HOT WATER CIRCULATION, HOT AND COLD WATER PIPING ARE AT CEILING OR IN HUNG CEILING, EXCEPT IN PIPE SPACES OR OTHERWISE NOTED.
3. ACCESS PANELS SHALL BE PROVIDED FOR ALL CLEANOUTS, VALVES, FLUSH VALVES, AND ANY OTHER EQUIPMENT OR ACCESSORIES THAT MAY REQUIRE ACCESS FOR MAINTENANCE, OR OPERATION WHICH ARE LOCATED BEHIND WALLS AND PARTITIONS OR CONCEALED IN HUNG CEILING.
4. CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS AND MAKE CERTAIN THERE NO OBSTRUCTIONS AND INTERFERENCES.
5. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL DRAWINGS AND WORK FOR EXACT LOCATION OF ALL PLUMBING FIXTURES.
6. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, INCLUDING WORK FOR ALL CONCRETE PADS, PUMP PITS, GREASE TRAP PITS, UNDERGROUND PIPE SUPPORT AND OTHER RELEVANT DETAILS.
7. CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPE LAYOUT WITH FOUNDATION PLAN.
8. CONTRACTOR SHALL FURNISH AND MOUNT ALL MOTORS, STARTERS AND CONTROL DEVICES FOR ALL EQUIPMENT SUPPLIED. REFER TO ELECTRICAL SPECIFICATIONS FOR MOTORS AND CONTROL EQUIPMENT.
9. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ELECTRICAL DRAWING AND WORK ENSURING NO PIPE IS RUN DIRECTLY ABOVE NOR WITHIN THREE FEET OF ELECTRICAL PANELS.
10. UNDERGROUND PIPING REQUIREMENTS FOR PROTECTING THE PIPES, BACK FILLING AND UNIFORM SOIL BEARING ALONG THE LENGTH OF THE PIPE SHALL BE AS PER IPC-2012. REFER TO PLUMBING DETAILS & STRUCTURAL DRAWINGS FOR PIPE SUPPORT AND ENCASEMENT DETAILS.
11. ALL PIPES PENETRATED THROUGH WALLS, FLOORS, AND UNDERGROUND FOUNDATION WALLS SHALL BE PROVIDED WITH REQUIRED OPENINGS, SLEEVES, SEALS AND PACKINGS.
12. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE PADS AND SUMP PITS.
13. PLUMBING AND FIRE PROTECTION SYSTEM SHALL BE DESIGNED FOR SEISMIC REQUIREMENTS.
14. FOR ALL ITEMS THAT ARE REQUIRED TO HAVE SEISMIC SUPPORTS OR RESTRAINTS, SEISMIC PLANS AND SEISMIC RESTRAINT CALCULATIONS SHALL BE PREPARED, SEALED, SIGNED, AND SUBMITTED BY A PROFESSIONAL MECHANICAL ENGINEER LICENSED IN THE STATE OF WYOMING ENGAGED BY THE CONTRACTOR. THE ENGINEER SHALL PROVIDE INSTALLATION SUPERVISION OF ALL SEISMIC SUPPORTS AND RESTRAINTS. THE CONTRACTOR'S REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT SIGNED AND SEALED AFFIDAVIT STATING THAT THE INSTALLATION IS IN FULL COMPLIANCE WITH THE SIGNED/SEALED SHOP DRAWINGS. COMPLY WITH THE SPECIFIED REQUIREMENTS OF SECTION 15403.

9.

PLUMBING AND DRAINAGE ABBREVIATIONS

AC	AIR CHAMBER
AD	AREA DRAIN
AP	ACCESS PANEL
AFF	ABOVE FINISHED FLOOR
AV	ACID VENT
BF	BARRIER FREE
BFP	BACK FLOW PREVENTER
BOT	BOTTOM
BMS	BUILDING MANAGEMENT SYSTEM
BR VENT	BRANCH VENT
BV	BALANCING VALVE
CAB	CABINET
CB	CATCH BASIN
CFS	CUBIC FEET/SECOND
CI	CAST IRON
CK VA	CHECK VALVE
CL OR Q	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUED
CR	CLASSROOM
CR PL	CHROME PLATED
CU FT	CUBIC FEET
CV	CONTROL VALVE
CVB	CURB VALVE & BOX
CW	COLD WATER
DCV	DOUBLE CHECK VALVE
DDCV	DOUBLE DETECTOR CHECK VALVE
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	PIPE DOWN THRU FLOOR
DR	DRAIN
DROP	PIPE DROPPING BETWEEN FLOORS
DWG	DRAWING
EEW	EMERGENCY EYE WASH
EL	ELEVATION
ELEC	ELECTRIC
EXIST	EXISTING
EXP	EXPOSED
F	FALL(IN./FT)
FAI	FRESH AIR INLET
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
F.F.	FINISHED FLOOR
FL	FLOOR
FS	FLOOR SINK
FU	FIXTURE UNIT
FV	FLUSH VALVE
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HC	HUNG CEILING
HDR	HEADER
HP	HIGH PRESSURE
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWC	HOT WATER CIRCULATION
HWR	HOT WATER RETURN
IW	INDIRECT WASTE
INS	INSULATION
INV	INVERT
IPS	IRON PIPE SIZE
JC	JANITORS CLOSET
JS	JANITORS SINK
LDR	LEADER
LAV	LAVATORY
LG	LEGAL GRADE ELEVATION
LP	LOW PRESSURE
LSV	LOCK SHIELD VALVE
MAX	MAXIMUM
MGCV	MASTER GAS CONTROL VALVE
MICV	METER INLET CONTROL VALVE
MH	MANHOLE
MIN	MINIMUM
MOCV	METER OUTLET CONTROL VALVE
MS	MOP SINK
NC	NEW CONNECTION
NFWH	NON FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NPS	NOMINAL PIPE SIZE
OFD	OVERFLOW ROOF DRAIN
OS&Y	OUTSIDE SCREW & YOKE
PD	PLANTER DRAIN
PLD	PLAZA DRAIN
P&D	PLUMBING AND DRAINAGE
PG	PRESSURE GAUGE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PTR	PRESSURE TEMPERATURE RELIEF
R	RISER
RD	ROOF DRAIN
RED	REDUCER
REF	REFRIGERATOR
RISE	PIPE RISING BETWEEN FLOORS
RM	ROOM
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
R T	RUNNING TRAP
RTU	ROOF TOP UNIT
RWC	RAINWATER CONDUCTOR
RV	RELIEF VENT
S	SOIL
SAN	SANITARY
SD	STORM DRAIN
SFM	SANITARY FORCE MAIN
SH	SHOWER
SH DR	SHOWER DRAIN
SH HD	SHOWER HEAD
SK	SINK
SLV	SLEEVE
SOAP VA	SOAP VALVE
SP	STANDPIPE
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SERVICE SINK
S/S	STAINLESS STEEL
ST	STORM
STD	STANDARD
STR	STRAINER
TH	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TW	TEMP. WATER
TYP	TYPICAL
UP	PIPE RISING THRU FLOOR
UR	URINAL
V	VENT
VA	VALVE
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HUNG
WHA	WATER HAMMER ARRESTER
WHYD	WALL HYDRANT
WOCO	WALL OUTLET CLEANOUT
XH	EXTRA HEAVY
XHCI	EXTRA HEAVY CAST IRON

NOTE: NOT ALL ABBREVIATIONS INDICATED ARE WITHIN THE SCOPE OF WORK

GENERAL NOTES | CONSTRUCTION NOTES | GRAPHIC LEGEND | KEY PLAN

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LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	
ORIGINAL ISSUE	08/28/14 -
PKG. IDENTIFIER	

PLUMBING NOTES AND ABBREVIATIONS

SCALE 1/2" = 1'-0"

3PI002

Schematic Design

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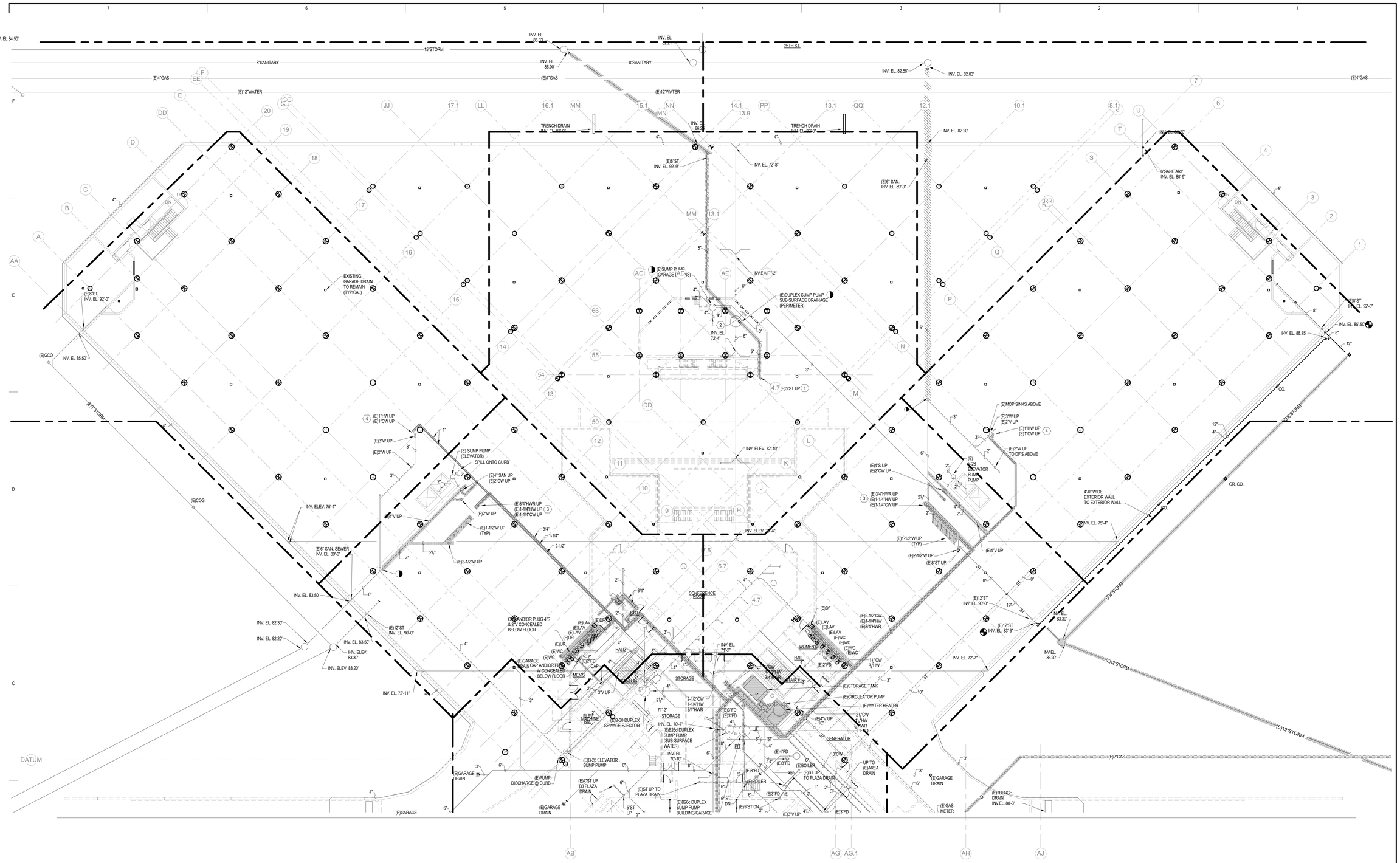


1 DEMO - PLUMBING - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

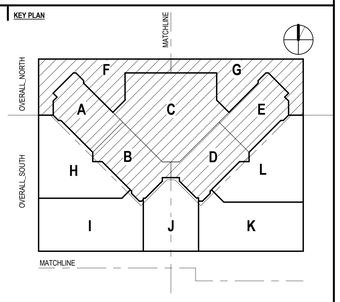
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	DEMOLISH AND REMOVE 5" STORM PIPING AND CAP.
2.	CUT AND CAP STORM WATER PIPING AT CEILING
3.	DEMOLISH 1 1/4" H, CW & 3/4" HWR RISERS.
4.	DISCONNECT AND REMOVE 1" H & CW BRANCH PIPING AT CEILING AND CAP RISERS.

GRAPHIC LEGEND

KEY PLAN



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MARK	DATE	DESCRIPTION
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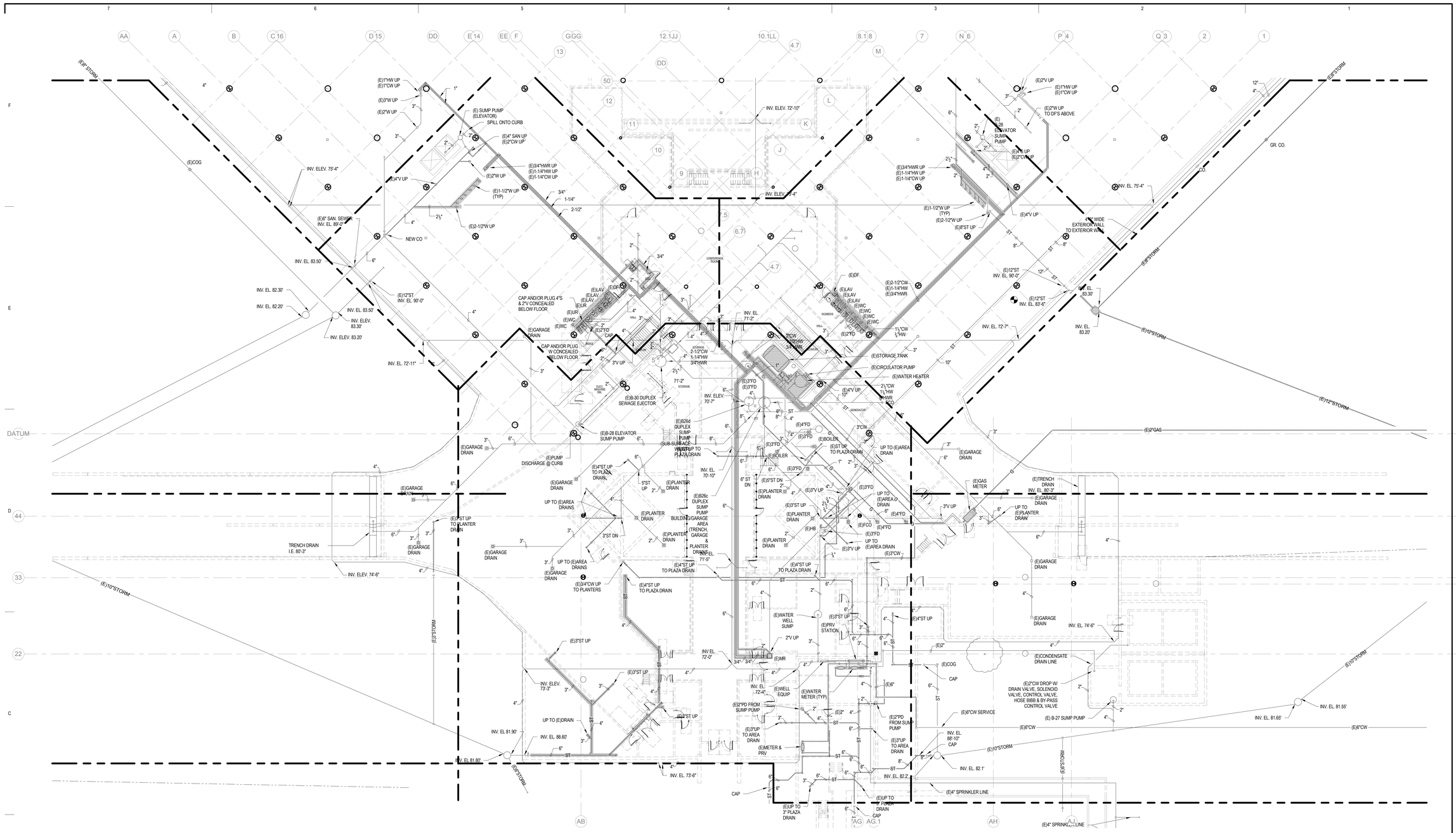
PROJECT NUMBER
ORIGINAL ISSUE 09/28/14 -
PKG. IDENTIFIER

OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3PD100

Schematic Design



1 DEMO - PLUMBING - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

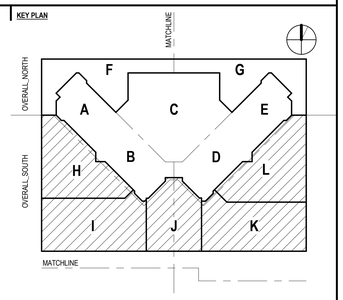
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	NOTE NUMBER 1
2.	NOTE NUMBER 2
3.	NOTE NUMBER 3
4.	NOTE NUMBER 4

GRAPHIC LEGEND

KEY PLAN



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MARK	DATE	DESCRIPTION
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PROJECT NUMBER	
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OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH

SCALE: As indicated

3PD101

Schematic Design

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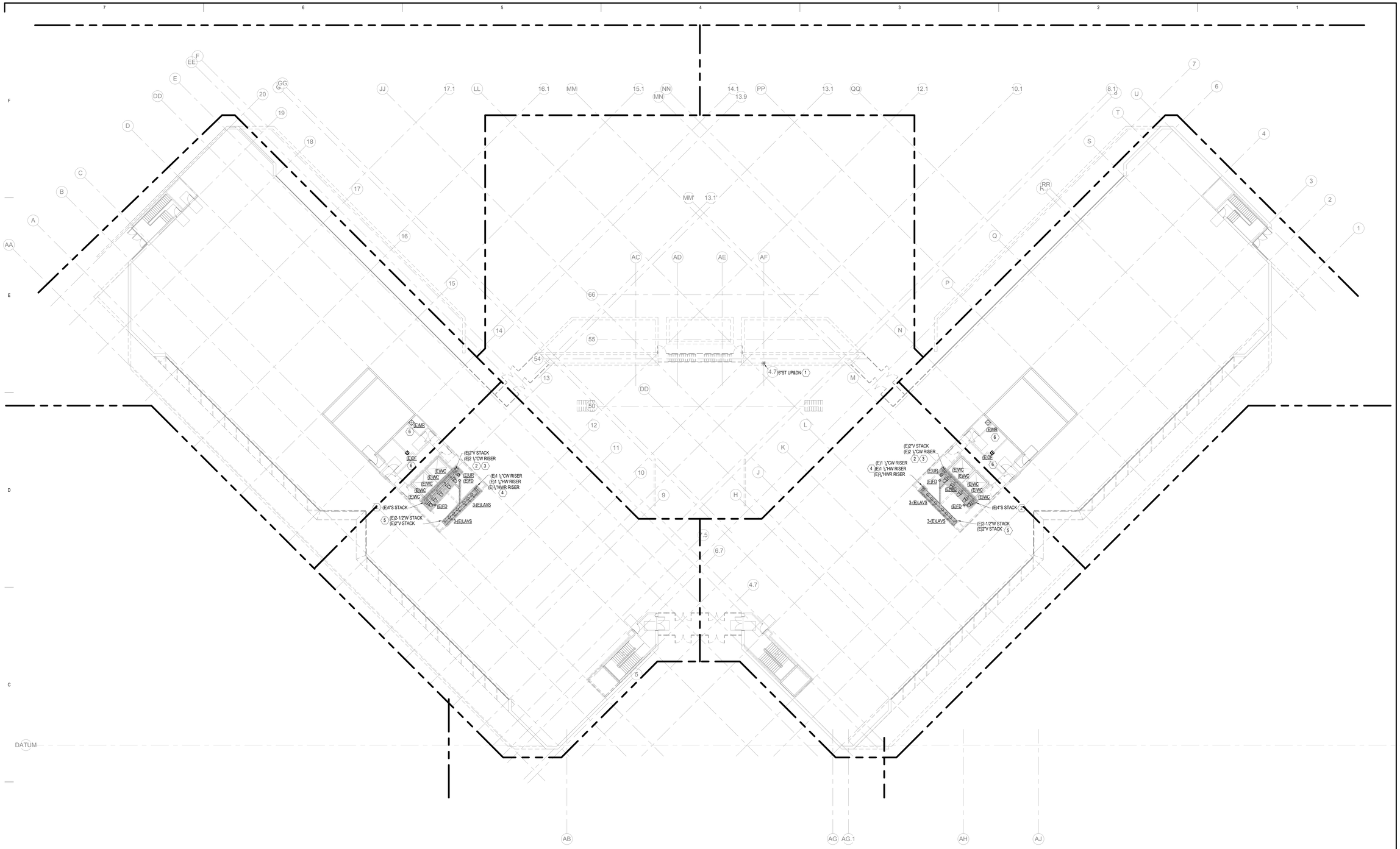


1 DEMO - PLUMBING - HERSCHLER FIRST FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

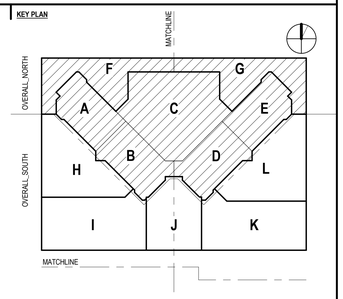
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE 5" STORM DRAIN DOWN TO GARAGE LEVEL.
2.	DEMOLISH ALL PLUMBING FIXTURES, FLOOR DRAINS AND ASSOCIATED PIPING INCLUDING 4" SANITARY AND 2" VENT STACKS.
3.	DEMOLISH 2" CW RISER AND ASSOCIATED BRANCH PIPING TO FIXTURES.
4.	DEMOLISH AND REMOVE 1 1/4" CW, 1 1/4" HW & 3/4" HWR RISERS AND ASSOCIATED BRANCH PIPING.
5.	DEMOLISH AND REMOVE ALL PLUMBING FIXTURES, 2 1/2" W & 2" V STACKS.
6.	EXISTING FIXTURE AND BRANCH PIPING TO REMAIN.
7.	RECONNECT TO EXISTING 5" STORM PIPING.
8.	RECONNECT TO EXISTING 3/4" CW PIPING.

GRAPHIC LEGEND

KEY PLAN



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OVERALL DEMOLITION PLAN - LEVEL 1 - NORTH

SCALE As indicated

3PD110

Schematic Design

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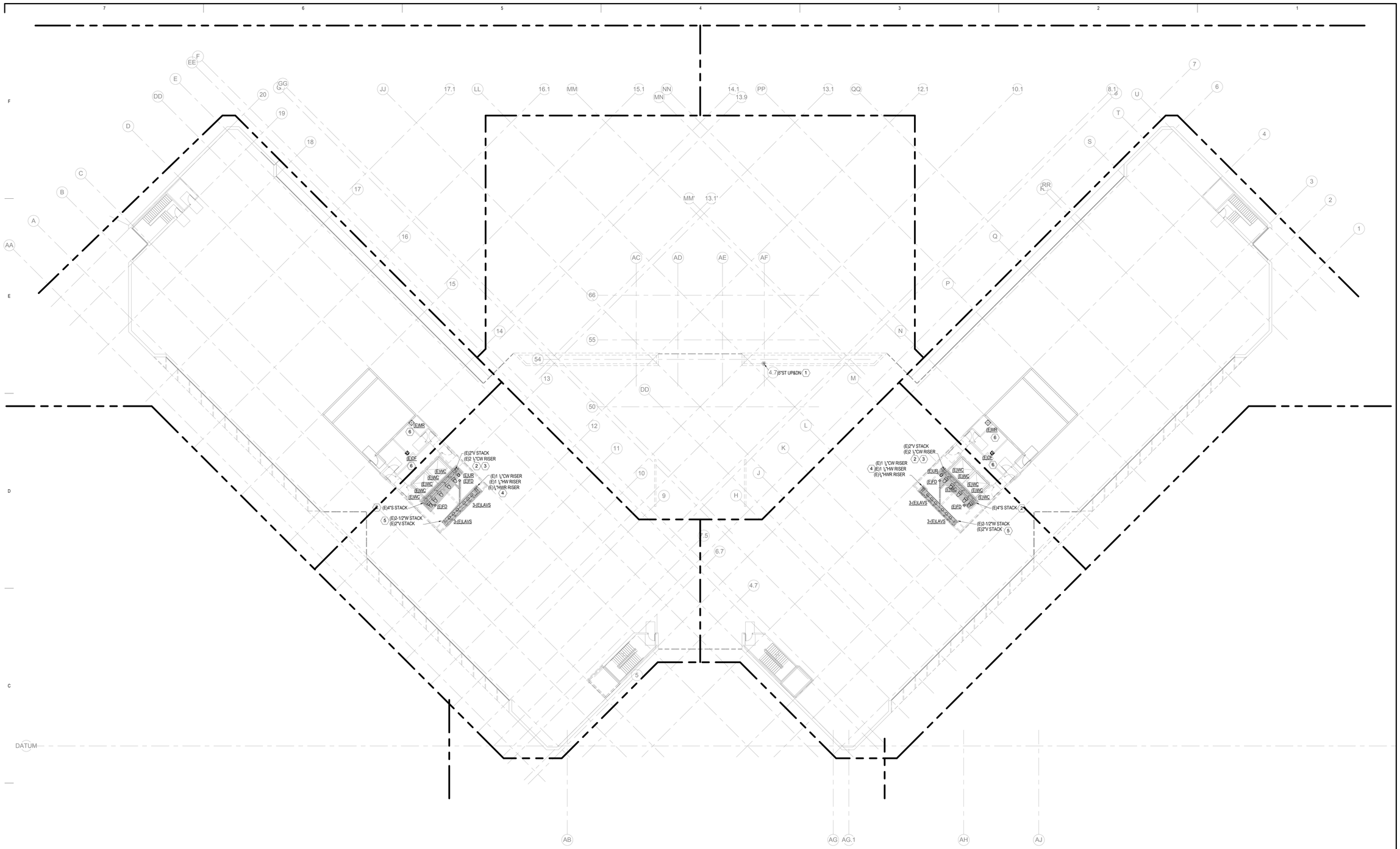


1 DEMO - PLUMBING - HERSCHLER SECOND FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

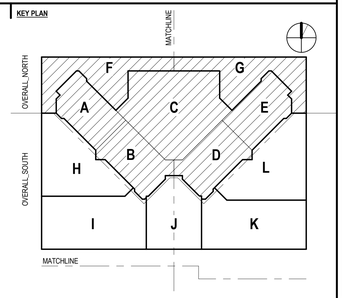
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE 5" STORM DRAIN DOWN TO GARAGE LEVEL.
2.	DEMOLISH ALL PLUMBING FIXTURES, FLOOR DRAINS AND ASSOCIATED PIPING INCLUDING 4" SANITARY AND 2" VENT STACKS.
3.	DEMOLISH 2" CW RISER AND ASSOCIATED BRANCH PIPING TO FIXTURES.
4.	DEMOLISH AND REMOVE 1 1/4" CW, 1 1/4" HW & 3/4" HWR RISERS AND ASSOCIATED BRANCH PIPING.
5.	DEMOLISH AND REMOVE ALL PLUMBING FIXTURES, 2 1/2" W & 2" V STACKS.
6.	EXISTING FIXTURE AND BRANCH PIPING TO REMAIN.
7.	RECONNECT TO EXISTING 5" STORM PIPING.
8.	RECONNECT TO EXISTING 3/4" CW PIPING.

GRAPHIC LEGEND

KEY PLAN



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OVERALL DEMOLITION PLAN - LEVEL 2 - NORTH

SCALE: As indicated

3PD120

Schematic Design

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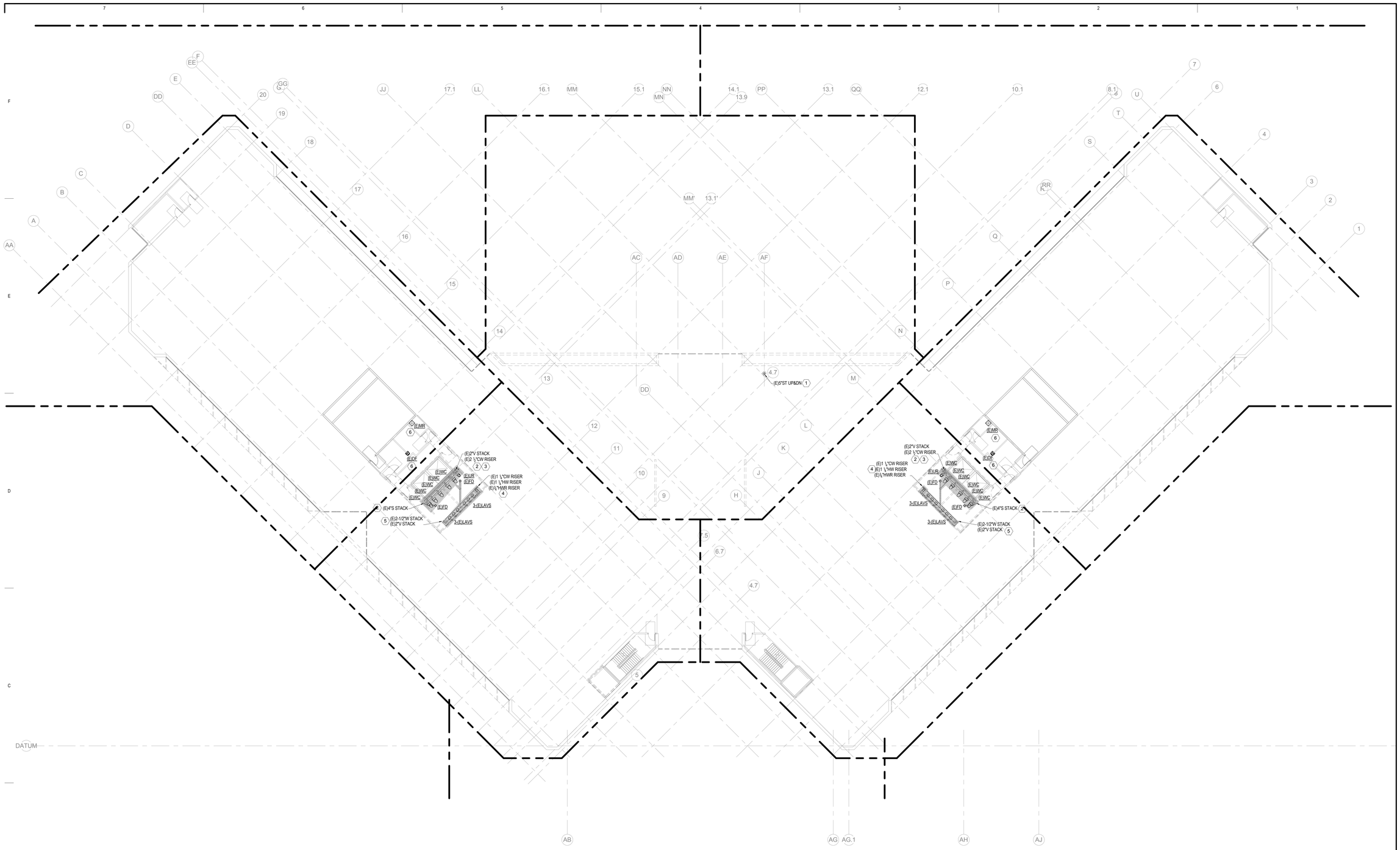


1 DEMO - PLUMBING - HERSCHLER THIRD FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

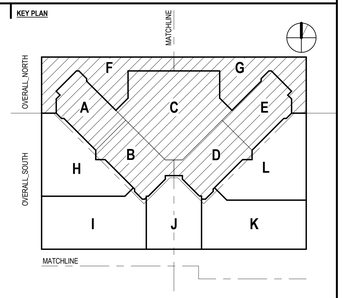
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE 5" STORM DRAIN DOWN TO GARAGE LEVEL.
2.	DEMOLISH ALL PLUMBING FIXTURES, FLOOR DRAINS AND ASSOCIATED PIPING INCLUDING 4" SANITARY AND 2" VENT STACKS.
3.	DEMOLISH 2" CW RISER AND ASSOCIATED BRANCH PIPING TO FIXTURES.
4.	DEMOLISH AND REMOVE 1 1/4" CW, 1 1/4" HW & 3/4" HWR RISERS AND ASSOCIATED BRANCH PIPING.
5.	DEMOLISH AND REMOVE ALL PLUMBING FIXTURES, 2 1/2" W & 2" V STACKS.
6.	EXISTING FIXTURE AND BRANCH PIPING TO REMAIN.
7.	RECONNECT TO EXISTING 5" STORM PIPING.
8.	RECONNECT TO EXISTING 3/4" CW PIPING.

GRAPHIC LEGEND

KEY PLAN



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OVERALL DEMOLITION PLAN - LEVEL 3 - NORTH

SCALE As indicated

3PD130

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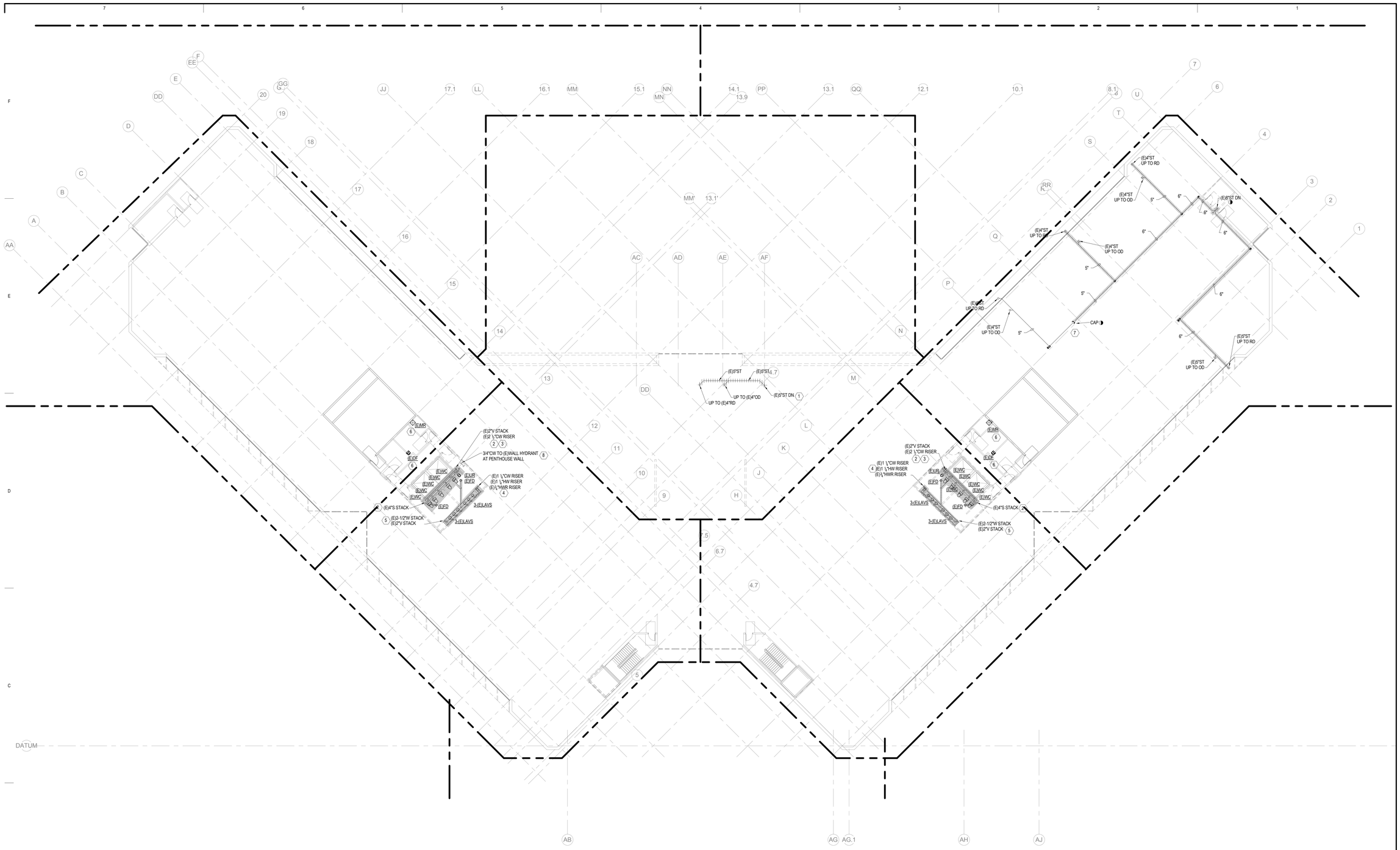


1 DEMO - PLUMBING - HERSCHLER FOURTH FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

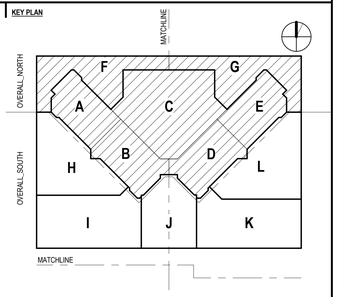
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE 5" STORM DRAIN DOWN TO GARAGE LEVEL.
2.	DEMOLISH ALL PLUMBING FIXTURES, FLOOR DRAINS AND ASSOCIATED PIPING INCLUDING 4" SANITARY AND 2" VENT STACKS.
3.	DEMOLISH 2" CW RISER AND ASSOCIATED BRANCH PIPING TO FIXTURES.
4.	DEMOLISH AND REMOVE 1 1/4" CW, 1 1/4" HW & 3/4" HWR RISERS AND ASSOCIATED BRANCH PIPING.
5.	DEMOLISH AND REMOVE ALL PLUMBING FIXTURES, 2 1/2" W & 2" V STACKS.
6.	EXISTING FIXTURE AND BRANCH PIPING TO REMAIN.
7.	RECONNECT TO EXISTING 5" STORM PIPING.
8.	RECONNECT TO EXISTING 3/4" CW PIPING.

GRAPHIC LEGEND

KEY PLAN



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OVERALL DEMOLITION PLAN - LEVEL 4 - NORTH

SCALE: As indicated

3PD140

Schematic Design

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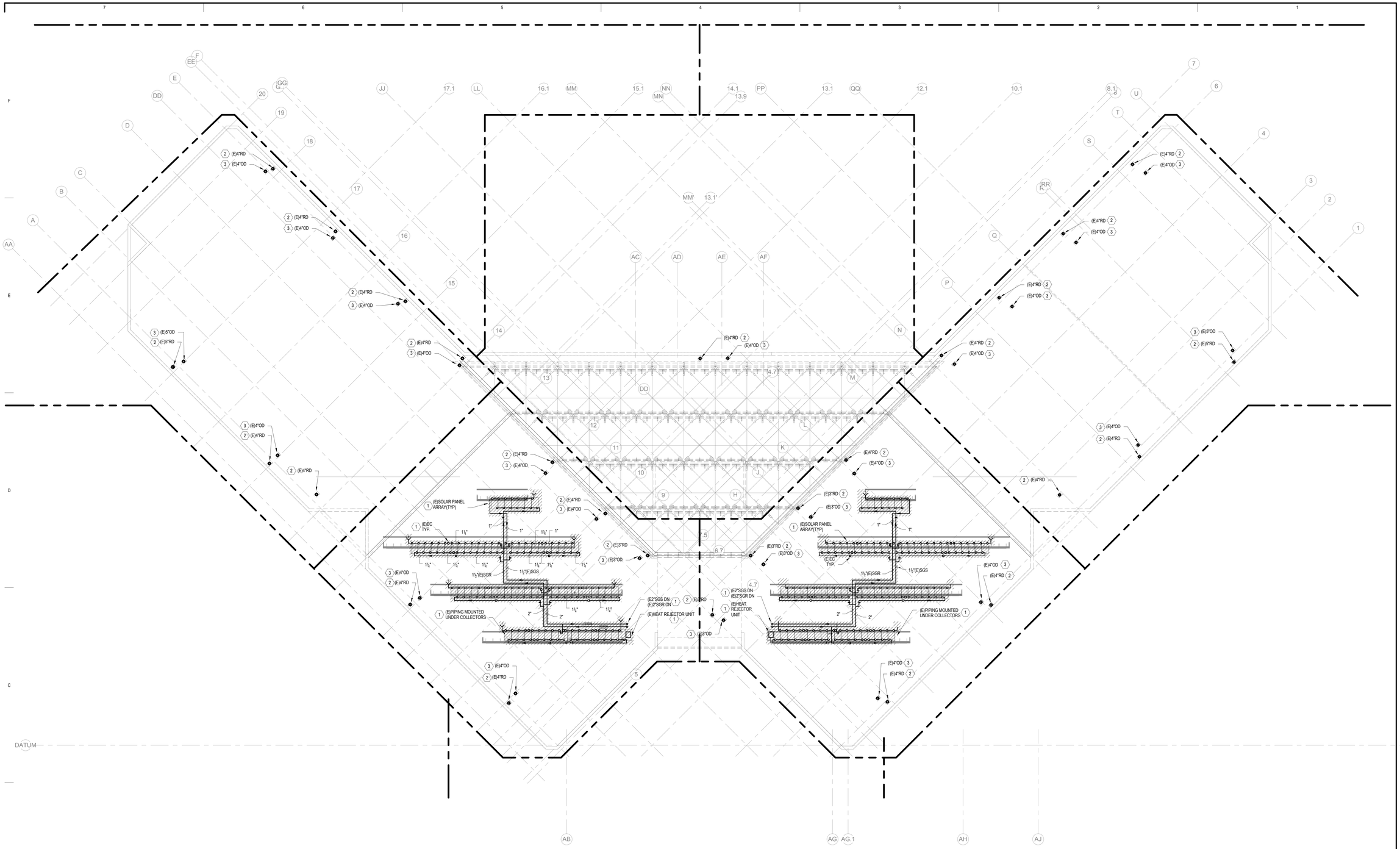


1 DEMO - PLUMBING - HERSCHLER ROOF - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

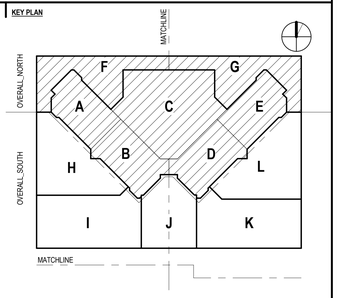
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	DISCONNECT AND REMOVE SOLAR PANELS. REMOVE ALL ASSOCIATED SOLAR GLYCOL SUPPLY AND RETURN PIPING WITH ASSOCIATED EQUIPMENT AND VALVES.
2.	REMOVE EXISTING ROOF DRAIN. TEMPORARILY CAP STORM PIPING.
3.	REMOVE EXISTING OVERFLOW ROOF DRAIN. TEMPORARILY CAP STORM PIPING.

GRAPHIC LEGEND

KEY PLAN



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ORIGINAL ISSUE	08/28/14 -
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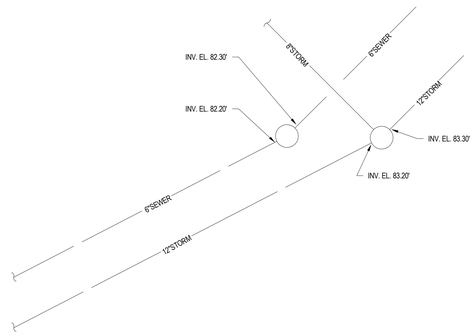
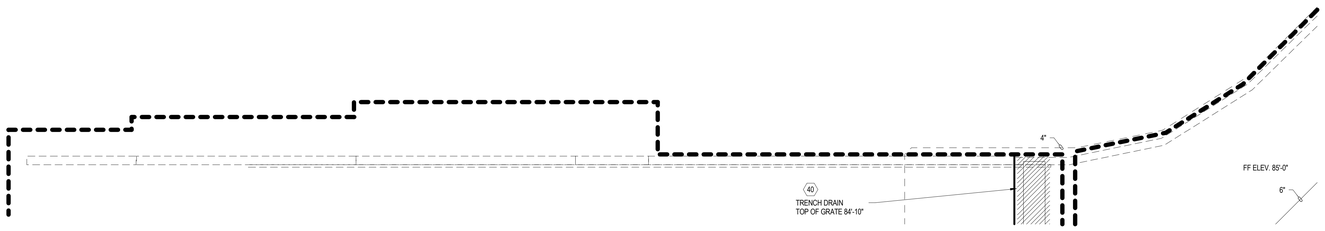
OVERALL DEMOLITION PLAN - ROOF - NORTH

SCALE: As indicated

3PD150

Schematic Design





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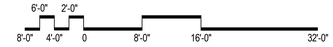
1/8" = 1'-0"



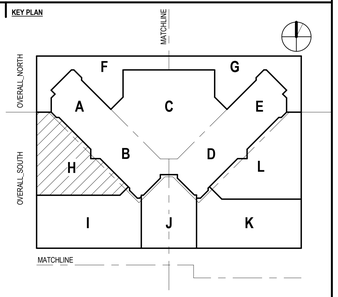
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
40.	DISCONNECT AND REMOVE TRENCH DRAIN.

GRAPHIC LEGEND

KEY PLAN



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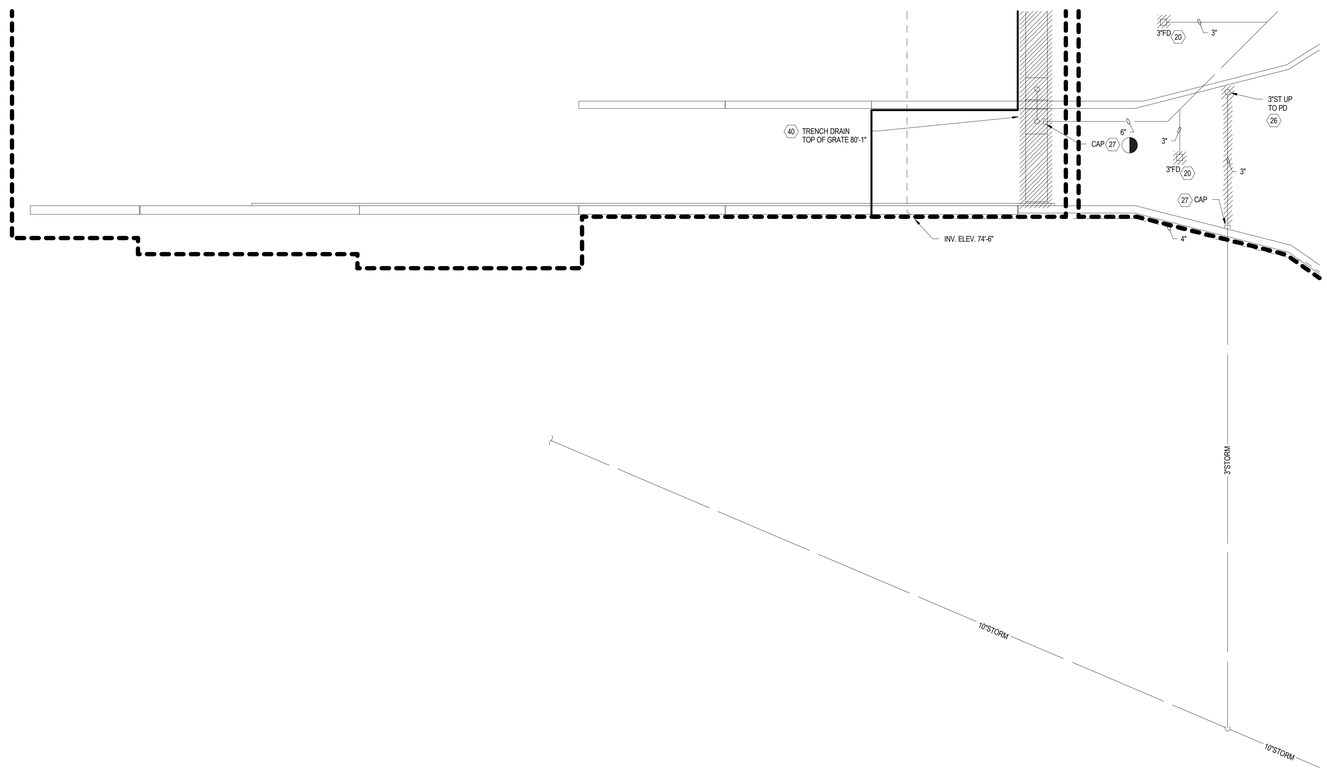
DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH - AREA "H"

SCALE 1/8" = 1'-0"

3PD101H

Schematic Design



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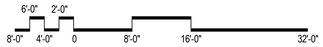


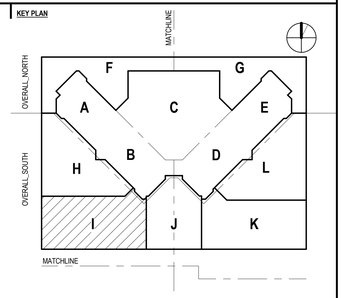
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
20.	REMOVE GRATING OF DRAIN PLUG VOID WITH CAULK, FINISH TOP OF VOID WITH 4" OF CEMENT FLUSH TO FLOOR LEVEL.
26.	DEMOLISH PLANTER DRAIN AND ASSOCIATED PIPING AND OR CUT STORM PIPING FLUSH WITH EXISTING FLOOR LEVEL AND PLUG WITH CAULK, FINISH TOP OF VOID WITH 4" OF CEMENT FLUSH TO FLOOR LEVEL.
27.	CUT AND CAP STORM WATER PIPING.
40.	DISCONNECT AND REMOVE TRENCH DRAIN.

GRAPHIC LEGEND

KEY PLAN



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DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH - AREA "I"

SCALE 1/8" = 1'-0"

3PD101I

Schematic Design

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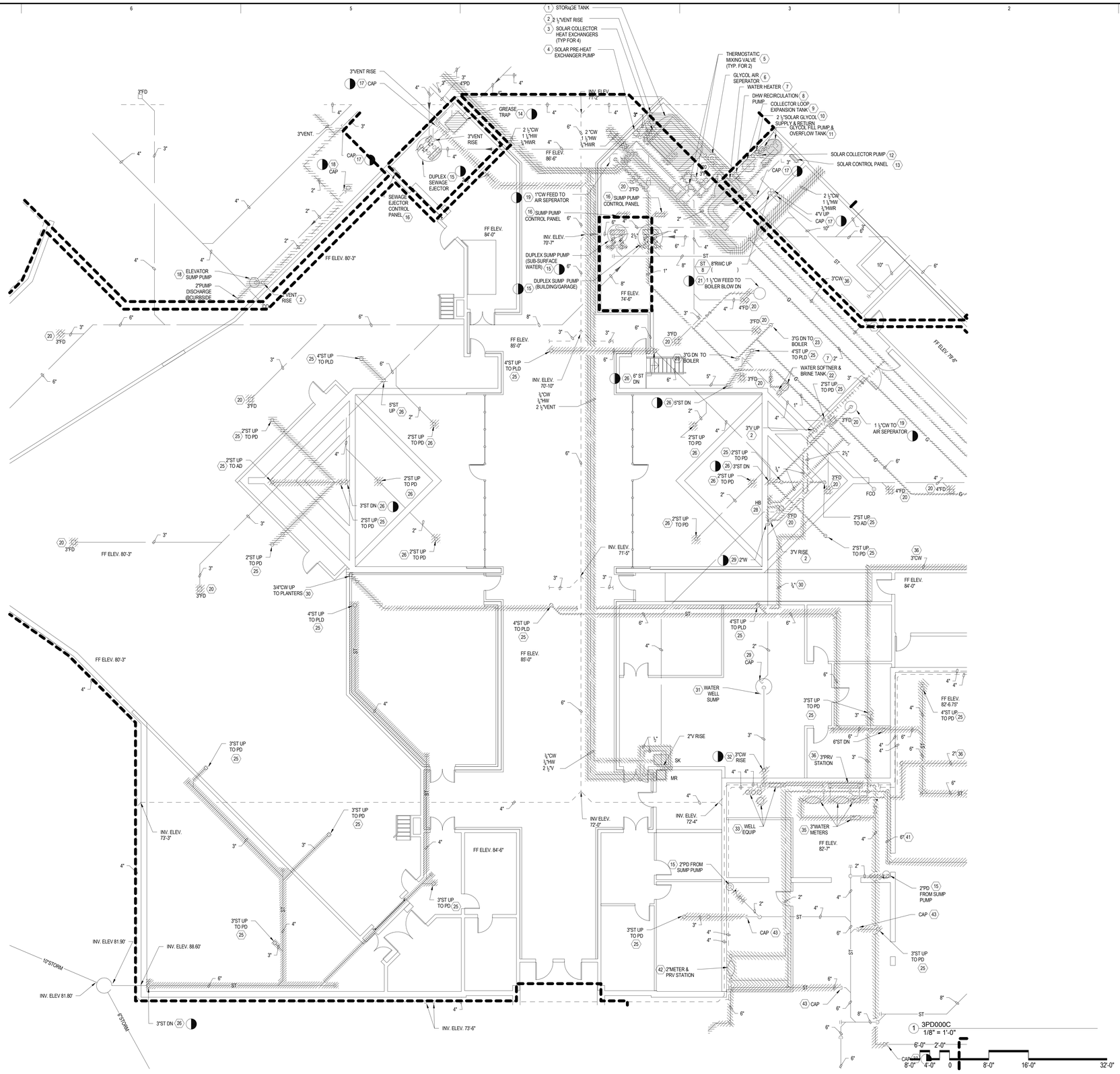


GENERAL NOTES

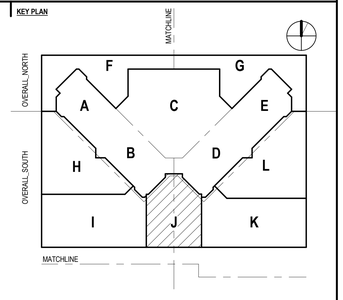
CONSTRUCTION NOTES

(#)

NUMBER	KEYNOTE
1.	DEMOLISH STORAGE TANK, ASSOCIATED HOT WATER PIPING AND CONCRETE SADDLE SUPPORTS.
2.	CUT VENT PIPE FLUSH WITH EXISTING FLOOR. PLUG VOID FLUSH WITH CAULK MATERIAL. REMOVE VENT PIPING ABOVE FLOOR TO POINT OF DISCONNECTION
3.	GLYCOL SUPPLY AND RETURN PIPING.
4.	DEMOLISH SOLAR PRE-HEAT EXCHANGER PUMP AND ASSOCIATED 3" & 2 1/2" SOLAR GLYCOL SUPPLY AND RETURN PIPING.
5.	DEMOLISH 110 AND 140 DEGREE THERMOSTATIC MIXING VALVES AND ASSOCIATED PIPING.
6.	DEMOLISH GLYCOL AIR SEPARATOR AND ASSOCIATED PIPING.
7.	DISCONNECT AND REMOVE WATER HEATER. DEMOLISH ASSOCIATED 2"CW, 2"HW, 1"HWR AND 2"GAS PIPING. DEMOLISH EXHAUST BREECHING FROM WATER HEATER BACK TO MAIN HEADER.
8.	DEMOLISH DOMESTIC HOT WATER RETURN PUMP AND ASSOCIATED 1" DHWR PIPING.
9.	DEMOLISH COLLECTOR LOOP EXPANSION TANK AND ASSOCIATED 2 1/2" SOLAR GLYCOL PIPING.
10.	REMOVE 2 1/2" SOLAR GLYCOL SUPPLY AND RETURN RISERS UP TO 4TH FLOOR.
11.	DEMOLISH GLYCOL FILL PUMP. OVER FLOW TANK AND ASSOCIATED 2 1/2"SOLAR GLYCOL PIPING.
12.	DEMOLISH SOLAR COLLECTOR PUMP AND ASSOCIATED 2 1/2"SOLAR GLYCOL PIPING.
13.	REMOVE SOLAR CONTROL PANEL AND SOLAR COLLECTOR PANELS ON ROOF.
14.	REMOVE GREASE TRAP INTERNAL BAFFLE SYSTEM. WELD IN PLACE A NEW 4"SANITARY PIPE SPOOL PIECE FROM INLET OF GREASE TRAP TO OUTLET END. FILL VOILD OF GREASE TRAP WITH CAULK.
15.	REMOVE MOTORS, CHECK AND GATE VALVES REPLACE WITH NEW SEE DWG. XXX-XXX-XXX
16.	REMOVE CONTROL PANEL REPLACE WITH NEW SEE DWG. XXX-XXX-XXX.
17.	CUT AND CAP VENT PIPING AT CEILING.
18.	CUT AND CAP INLET OF 2"WASTE FROM EXISTING ELEVATOR PIT. CAP OUTLET OF 2"WASTE INTO SUMP PIT. REMOVE 2" PUMP DISCHARGE. FILL VOID OF SUMP PIT WITH CONCRETE FLUSHTO FLOOR.
19.	DEMOLISH COLD WATER PIPING TO AIR SEPARATOR.
20.	REMOVE GRATING OF DRAIN, PLUG VOID WITH CAULK, FINISH TOP OF VOID WITH 4" CEMENT FLUSH TO FLOOR LEVEL.
21.	DISCONNECT AND REMOVE 1 1/2"CW FEED TO BOILER BLOW DOWN TANK.
22.	DISCONNECT WATER SOFTENER AND BRINE TANK SYSTEM, AND ASSOCIATED 3/4"CW PIPING.
23.	DEMOLISH 3"NATURAL GAS PIPING, GAS TRAIN PIPING TO BOILER AND 6"MAIN FEED PIPING BACK TO GAS METER ROOM.
25.	REMOVE AREA DRAINS, PLANTER DRAINS, AND PLAZA DRAINS AND ASSOCIATED STORM WATER PIPING.
26.	DEMOLISH AND CUT STORM PIPING FLUSH WITH EXISTING FLOOR LEVEL AND PLUG WITH CAULK, FINISH TOP OF VOID WITH 4" OF CEMENT FLUSH TO FLOOR LEVEL.
28.	DISCONNECT AND REMOVE H.B. AND ASSOCIATED PIPING.
29.	CUT AND CAP INLET AND OUTLET OF 2"WASTE FROM WATER WELL.
30.	DEMOLISH 3/4"CW PIPING TO PLANTERS.
31.	PLUG WATER WELL WITH CAULK BY WELL CONTRACTOR.
32.	CUT 3"CW PIPE FLUSH AT FLOOR AND DEMOLISH ASSOCIATED PIPING.
33.	DISCONNECT AND REMOVE PRESSURE PUMP WELL EQUIPMENT AND ASSOCIATED 4"SPRINKLER MAIN PIPING.
34.	DEMOLISH SUMP PUMP AND 2" DISCHARGE PIPING.
35.	DISCONNECT AND REMOVE (2) 3"WATER METERS AND RETURN TO OWNER. REMOVE 6"BFP, 3"BFP AND ASSOCIATED PIPING.
36.	DEMOLISH 2-STAGE PRESSURE REDUCING VALVE STATION 3"DCW AND 2" COOLING TOWER WATER FILL PIPING.
37.	CAP 4"SPRINKLER MAIN IN TUNNEL.
41.	DEMOLISH 6"CW FEED FROM CENTRAL AVE.
42.	DISCONNECT AND REMOVE 2"WATER METER AND RETURN TO OWNER. REMOVE 2"BFP, AND ASSOCIATEDCW PIPING.
43.	CUT AND CAP STORM WATER PIPING AT CEILING.

GRAPHIC LEGEND

KEY PLAN



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HDR PDP PAI ARCHITECTS

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MARK	DATE	DESCRIPTION
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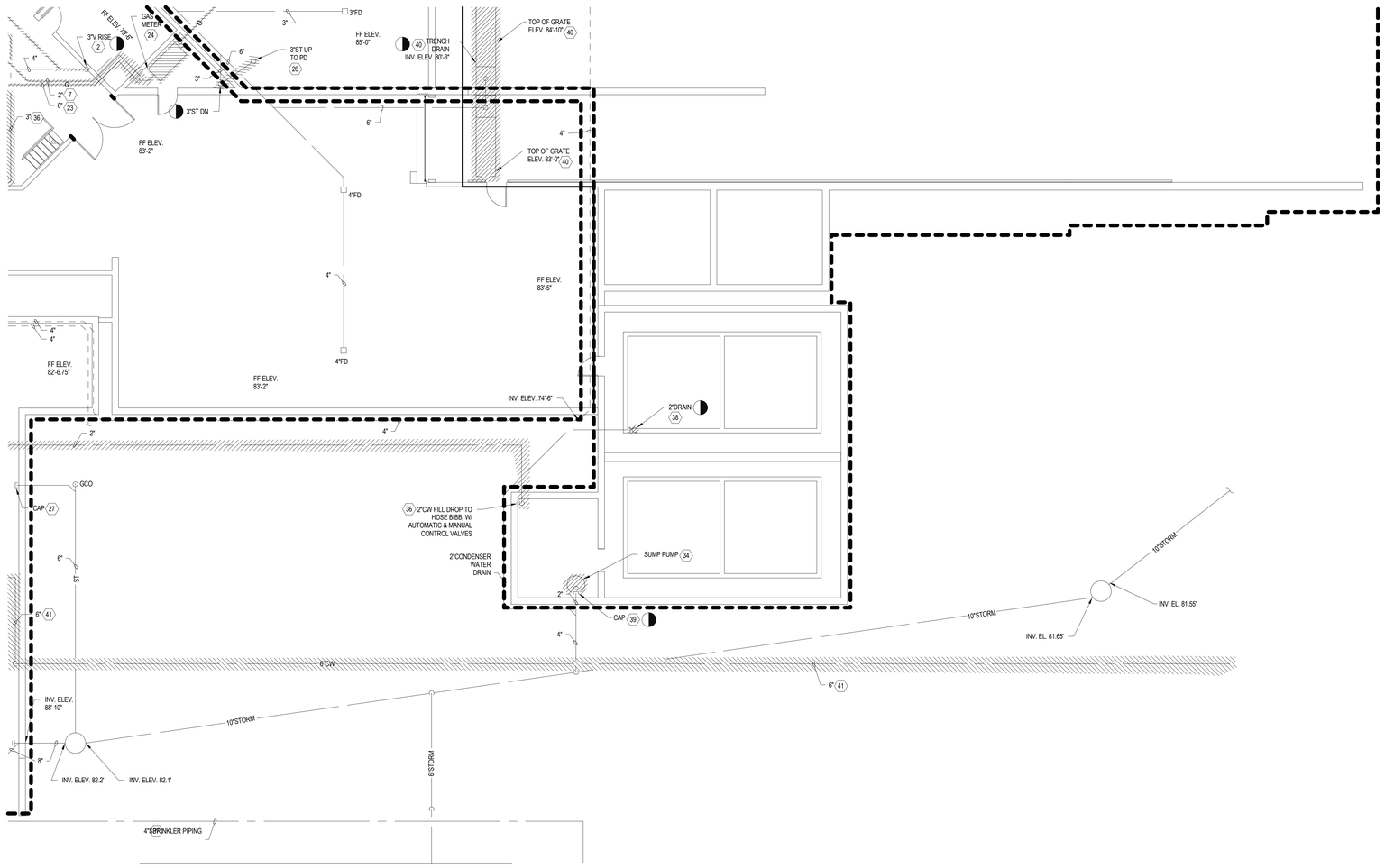
DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH - AREA "J"

SCALE 1/8" = 1'-0"

3PD101J

Schematic Design



1 3PD000E2
1/8" = 1'-0"

6'-0" 2'-0"
8'-0" 4'-0" 0 8'-0" 16'-0" 32'-0"

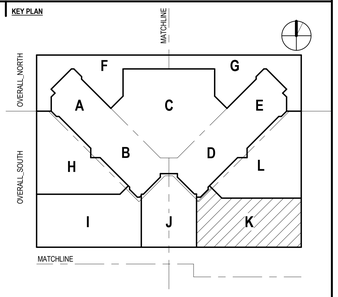
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
2.	CUT VENT PIPE FLUSH WITH EXISTING FLOOR. PLUG VOID FLUSH WITH CAULK MATERIAL. REMOVE VENT PIPING ABOVE FLOOR TO POINT OF DISCONNECTIONCUT AND CAP STORM WATER PIPING.
7.	DISCONNECT AND REMOVE WATER HEATER. DEMOLISH ASSOCIATED 2"CW, 2"HW AND 2" GAS PIPING. DEMOLISH EXHAUST BREECHING FROM WWATE HEATER BACK TO MAIN.
23.	DEMOLISH 3" NATURAL GAS PIPING. GAS TRAIN PIPING TO BOILER AND 6" MAIN FEED PIPING BACK TO GAS METER ROOM.
24.	DISCONNECT AND REMOVE GAS METER AND RETURN TO OWNER. DEMOLISH ALL GAS PIPING WITHIN THE GAS ROOM AND UNDERGROUND BACK TO GAS MAIN AT CENTRAL AVE. AND CAP.
26.	DEMOLISH PLANTER DRAIN AND ASSOCIATED PIPING AND/OR CUT STORM PIPING FLUSH WITH EXISTING FLOOR LEVEL AND PLUG WITH CAULK. FINISH TOP OF VOID WITH 4" OF CEMENT FLUSH TO FLOOR LEVEL.
27.	CUT AND CAP STORM WATER PIPING AT CEILING.
34.	DEMOLISH SUMP PUMP AND 2" DISCHARGE PIPING.
36.	DEMOLISH 2-STAGE PRESSURE REDUCING VALVE STATION, 3" DCW AND 2" COOLER TOWER WATER FILL PIPING.
37.	CAP 4" SPRINKLER MAIN IN TUNNEL.
38.	REMOVE AND CAP 2" DRAIN.
39.	DISCONNECT AND REMOVE SUMP PUMP, ASSOCIATED PIPING AND CAP 2" DRAIN.
40.	DISCONNECT AND REMOVE TRENCH DRAIN.
41.	DEMOLISH 6" CW FROM CENTRAL AVE.

GRAPHIC LEGEND

KEY PLAN



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LORING CONSULTING ENGINEERS

PRELIMINARY
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

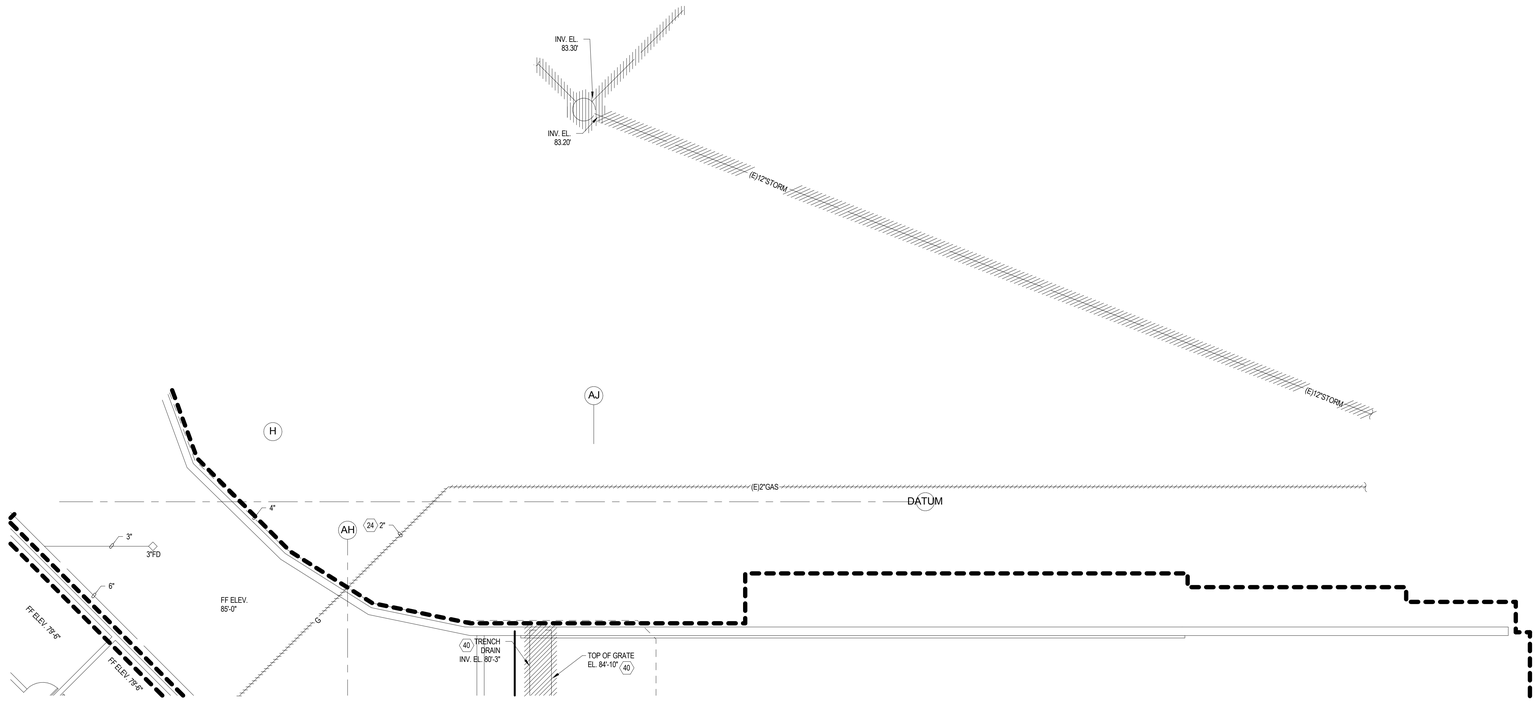
PROJECT NUMBER
ORIGINAL ISSUE 10/22/14 -
PKG. IDENTIFIER

DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH - AREA "K"

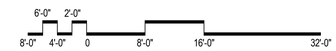
SCALE 1/8" = 1'-0"

3PD101K

Schematic Design



1 3PD000E1
1/8" = 1'-0"



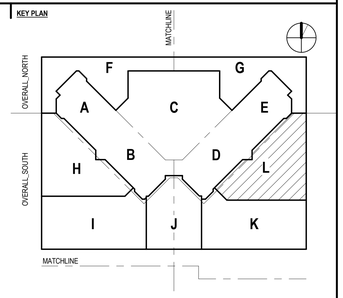
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
24.	DISCONNECT AND REMOVE GAS METER AND RETURN TO OWNER. DEMOLISH ALL GAS PIPING WITH IN THE GAS ROOM AND UNDERGROUND PIPE BACK TO CENTRAL AVE. AND CAP.
40.	DISCONNECT AND EMOVE TRENCH DRAIN.

GRAPHIC LEGEND

KEY PLAN



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1	10/30/2014	SD OWNER REVIEW

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ORIGINAL ISSUE	10/22/14 -
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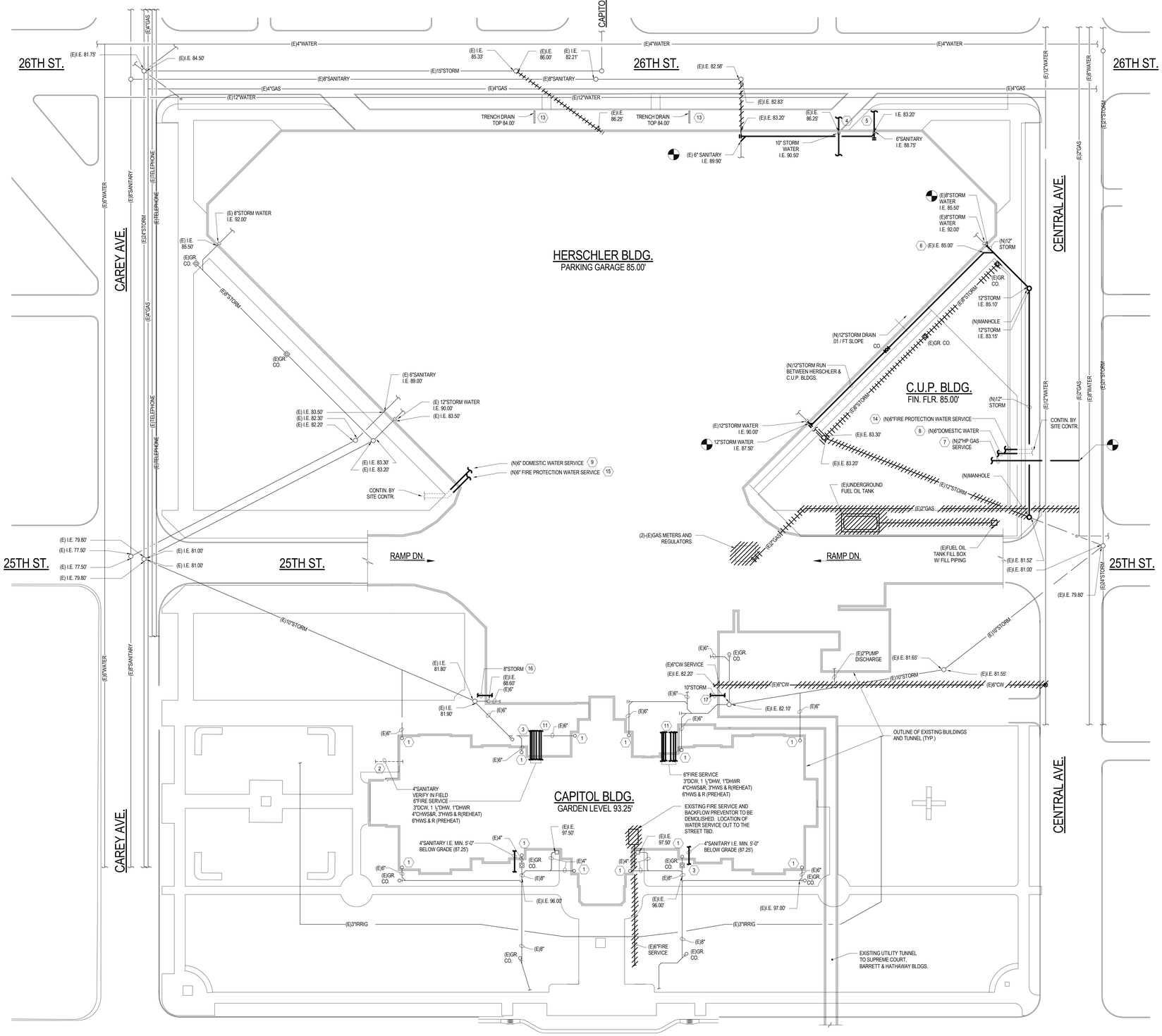
DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH - AREA "L"

SCALE 1/8" = 1'-0"

3PD101L

Schematic Design



GENERAL NOTES:

1.) EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE/CIVIL ENGINEER.

KEYED NOTES:

1. EXISTING 6"STORM CONNECTION BELOW GRADE TO BE REMOVED AND REPLACED. (ENTIRE INTERIOR RWC SYSTEM IN CAPITOL BUILDING TO BE REPLACED FROM ROOF TO SITE TIE-IN)
2. EXISTING 4"SANITARY DISCHARGE TO BE REMOVED.
3. NEW 6"SANITARY DISCHARGE.
4. NEW 8"STORM DISCHARGE. (RELOCATED DUE TO NEW NORTH ACCESS RAMP)
5. NEW 6"SANITARY DISCHARGE. (RELOCATED DUE TO NEW NORTH ACCESS RAMP)
6. NEW 12"STORM DISCHARGE. (RELOCATED DUE TO NEW CENTRAL UTILITY PLANT)
7. NEW 2"HP NATURAL GAS SERVICE. (NEW GAS SERVICE ROOM IN CUP BUILDING)
8. NEW 6" DOMESTIC WATER SERVICE. (EAST) (NEW WATER SERVICE ROOM IN CUP BUILDING)
9. NEW 6"DOMESTIC WATER SERVICE. (WEST) (NEW WATER SERVICE ROOM IN HERSCHLER/CONNECTOR BUILDING TBD)
11. NEW HVAC, PLUMBING AND FIRE PROTECTION SERVICES. (FOR CAPITOL BUILDING, FROM CUP/HERSCHLER BUILDING)
13. NEW TRENCH DRAINS AT BOTTOM OF NEW ENTRANCE RAMPS TO BE COORDINATED WITH BUILDING SUMP PUMP SYSTEM.
14. NEW 6" FIRE PROTECTION WATER SERVICE. (EAST) (NEW WATER SERVICE ROOM IN CUP BUILDING)
15. NEW 6" FIRE PROTECTION WATER SERVICE. (WEST) (NEW WATER SERVICE ROOM IN HERSCHLER/CONNECTOR BUILDING TBD)
16. NEW 8"STORM DISCHARGE. (GREEN ROOF)
17. NEW 10"STORM DISCHARGE. (GREEN ROOF)

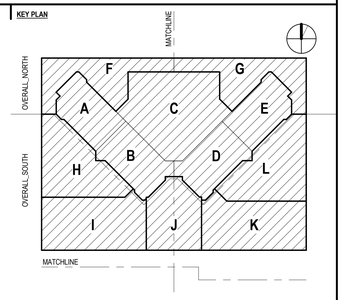
LEGEND:

	EXISTING
	EXISTING TO BE REMOVED
	NEW
AD	AREA DRAIN
CO.	CLEANOUT
CW	COLD WATER
(E)	EXISTING
GR. CO.	GROUND CLEANOUT
HP	HIGH PRESSURE
I.E.	INVERT ELEVATION
IRRIG	IRRIGATION
(N)	NEW
RWC	RAIN WATER CONDUCTOR
	POINT OF CONNECTION

24TH ST. 1 OVERALL SITE PLAN
1" = 30'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES | **CONSTRUCTION NOTES** | **GRAPHIC LEGEND** | **KEY PLAN**



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OVERALL SITE PLAN

SCALE 1" = 30'-0"

3PP010

Schematic Design

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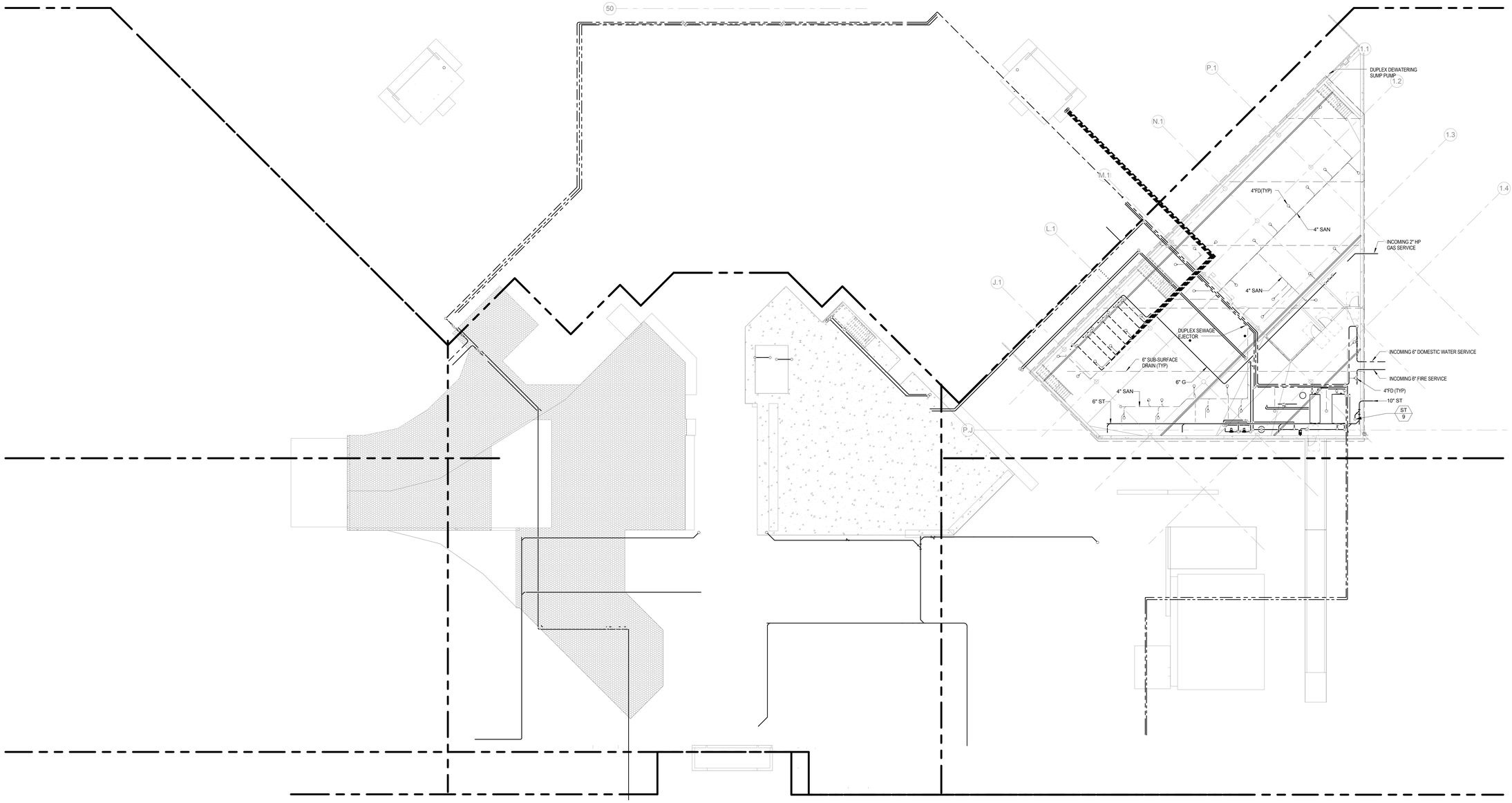


1 PLUMBING - CUP LOWER LEVEL 2 - OVERALL SOUTH
1/16" = 1'-0"

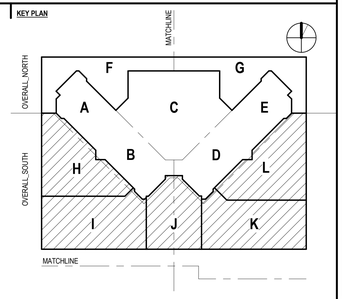
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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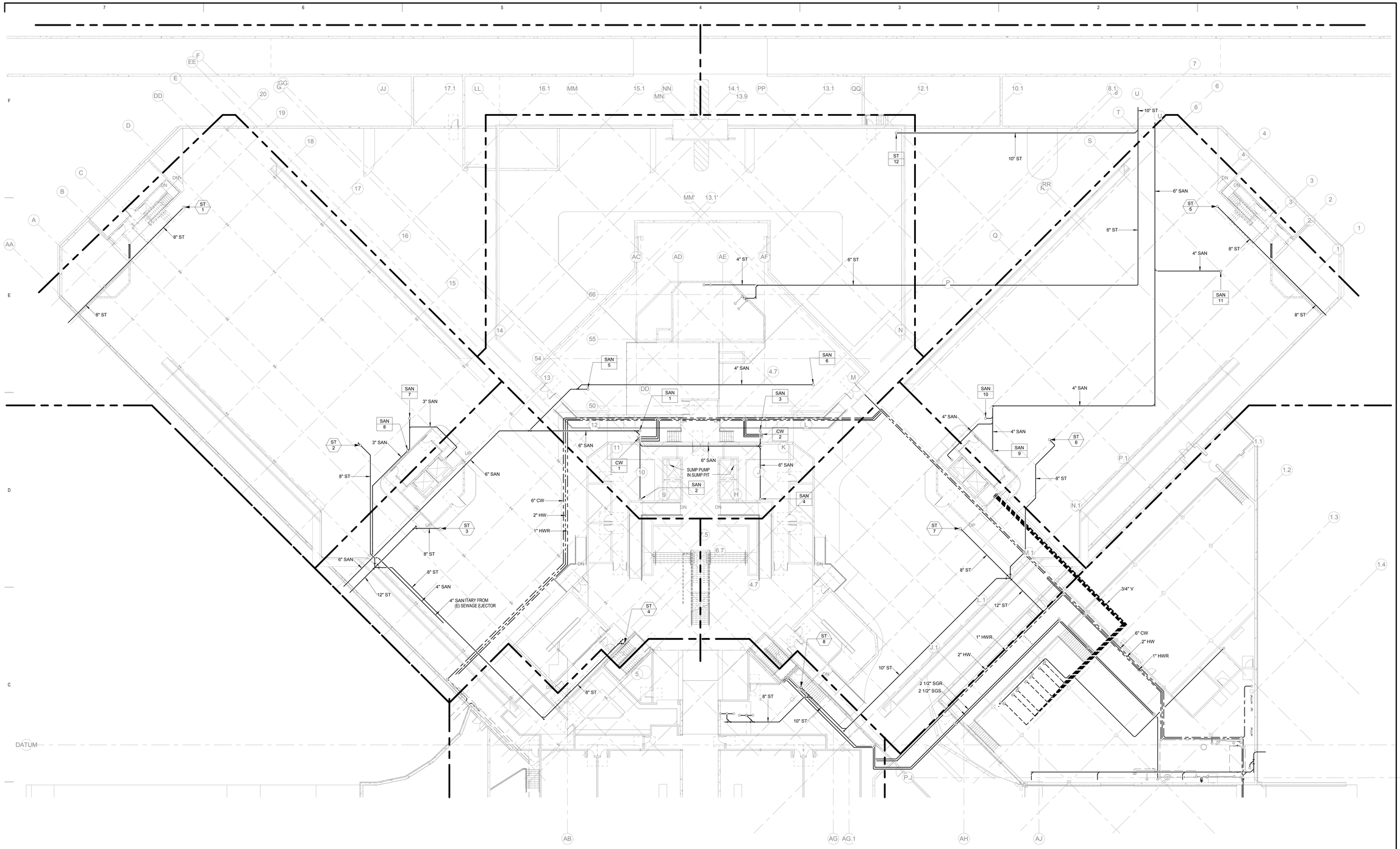
OVERALL PLAN - LOWER LEVEL 2 - SOUTH

SCALE 1/16" = 1'-0"

3PP10L

Schematic Design



1 PLUMBING - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

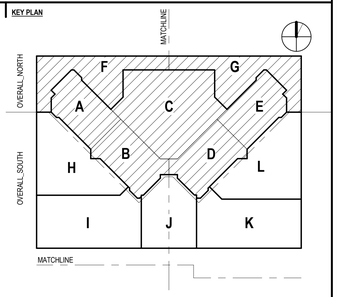
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LOWER LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3PP100

Schematic Design

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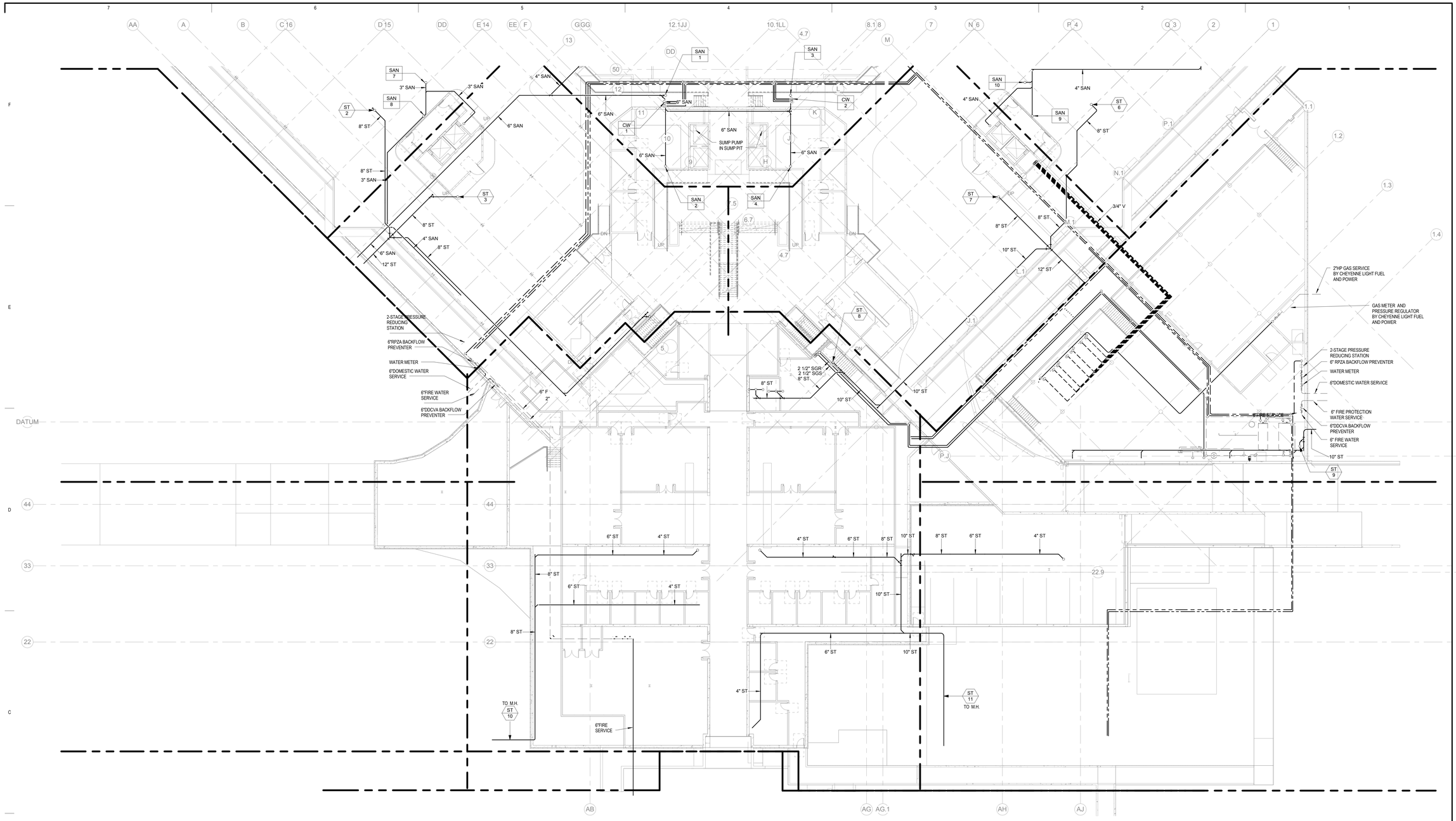


1 PLUMBING - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

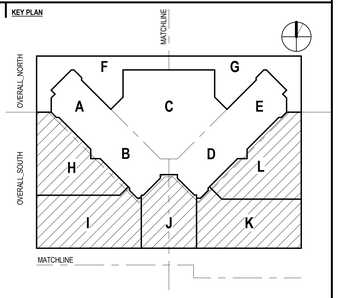
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LOWER LEVEL 1 - SOUTH

SCALE 1/16" = 1'-0"

3PP101

Schematic Design

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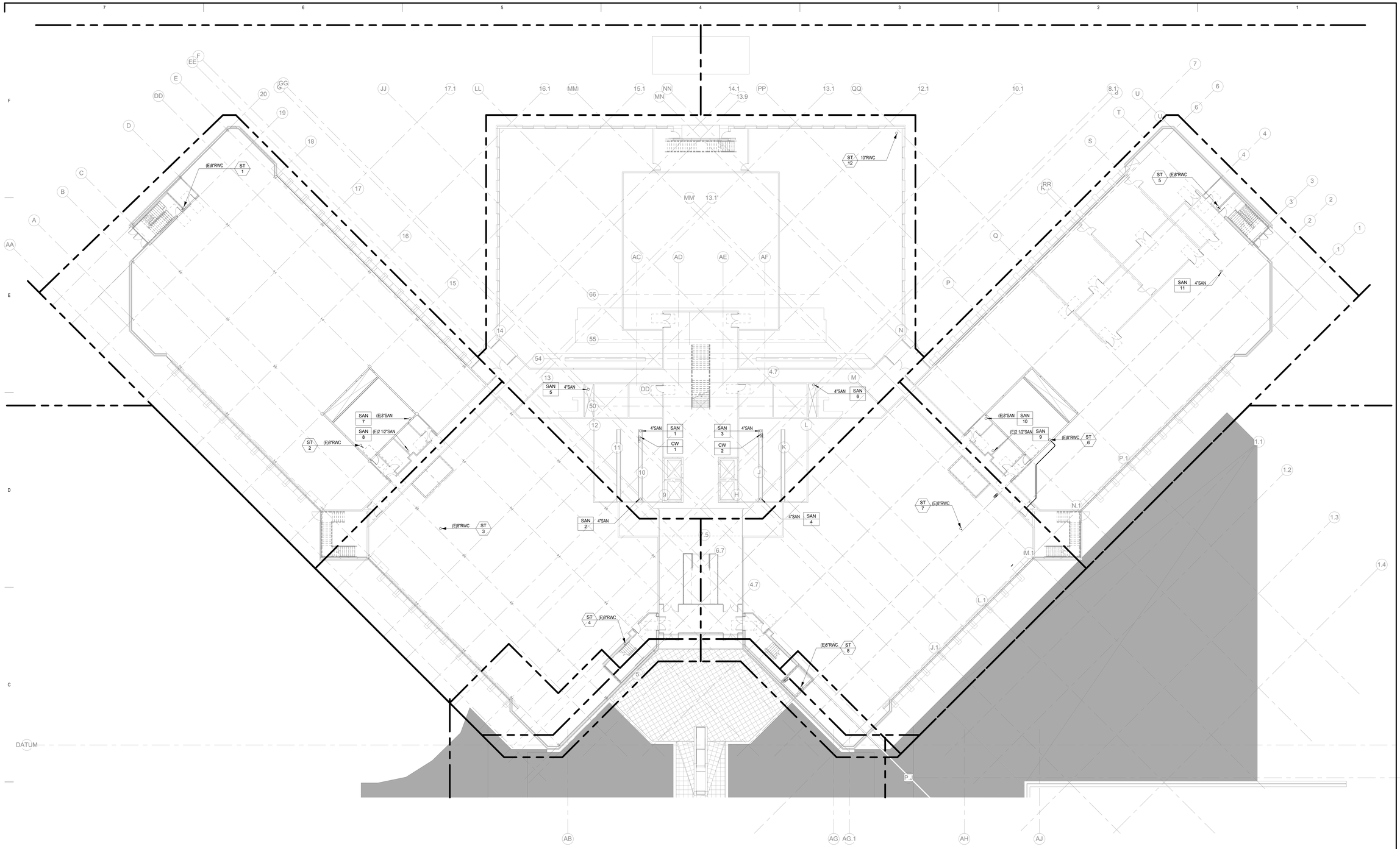


1 PLUMBING - HERSCHLER FIRST FLOOR - OVERALL NORTH
1/16" = 1'-0"

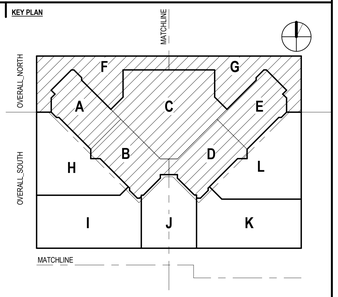
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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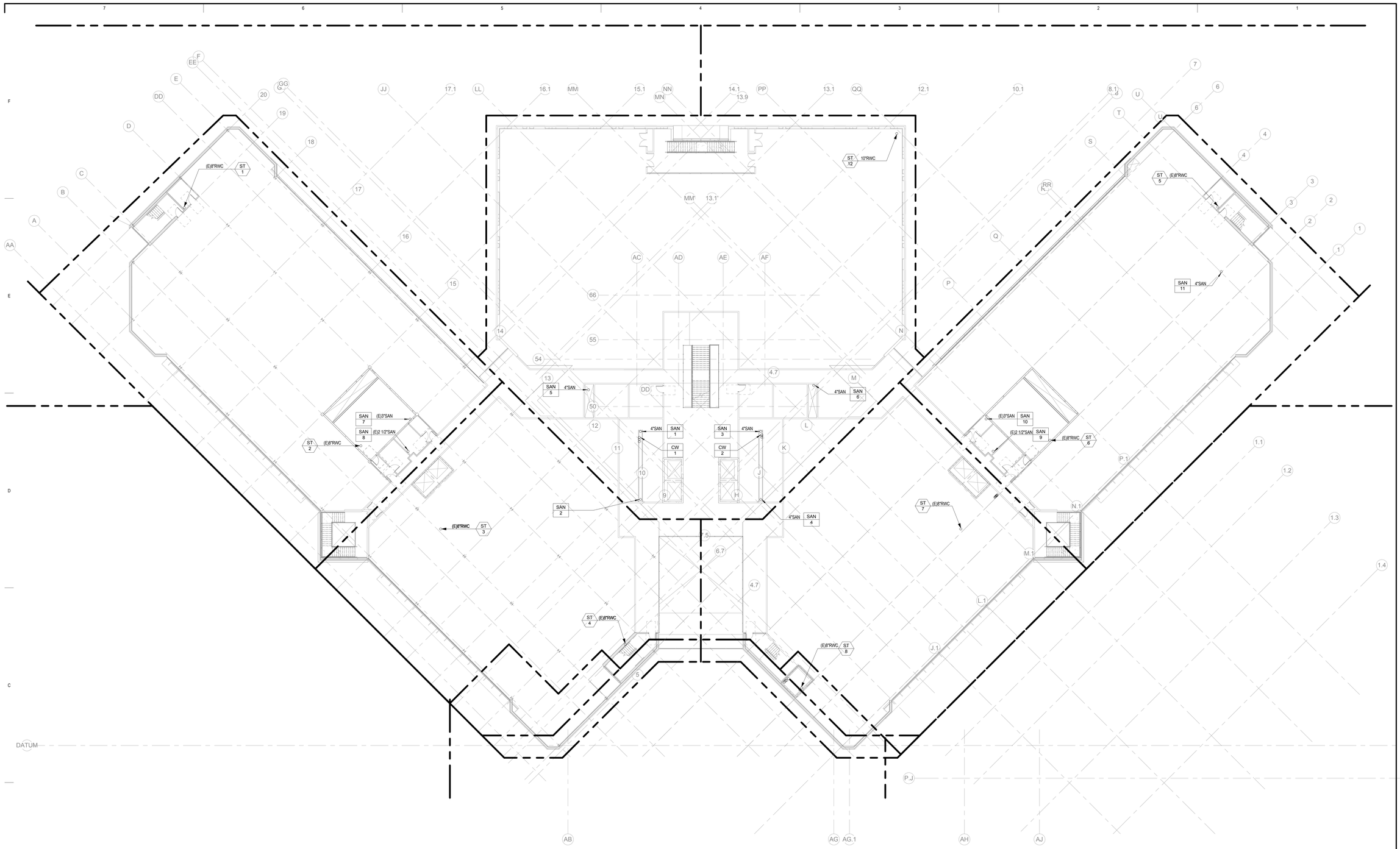
OVERALL PLAN - LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3PP110

Schematic Design



1 PLUMBING - HERSCHLER SECOND FLOOR - OVERALL NORTH
1/16" = 1'-0"

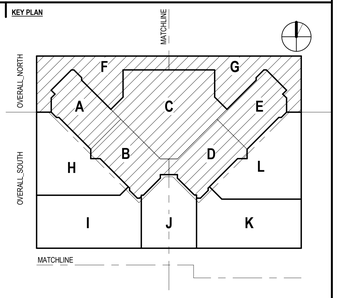
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 2 - NORTH

SCALE 1/16" = 1'-0"

3PP120

Schematic Design

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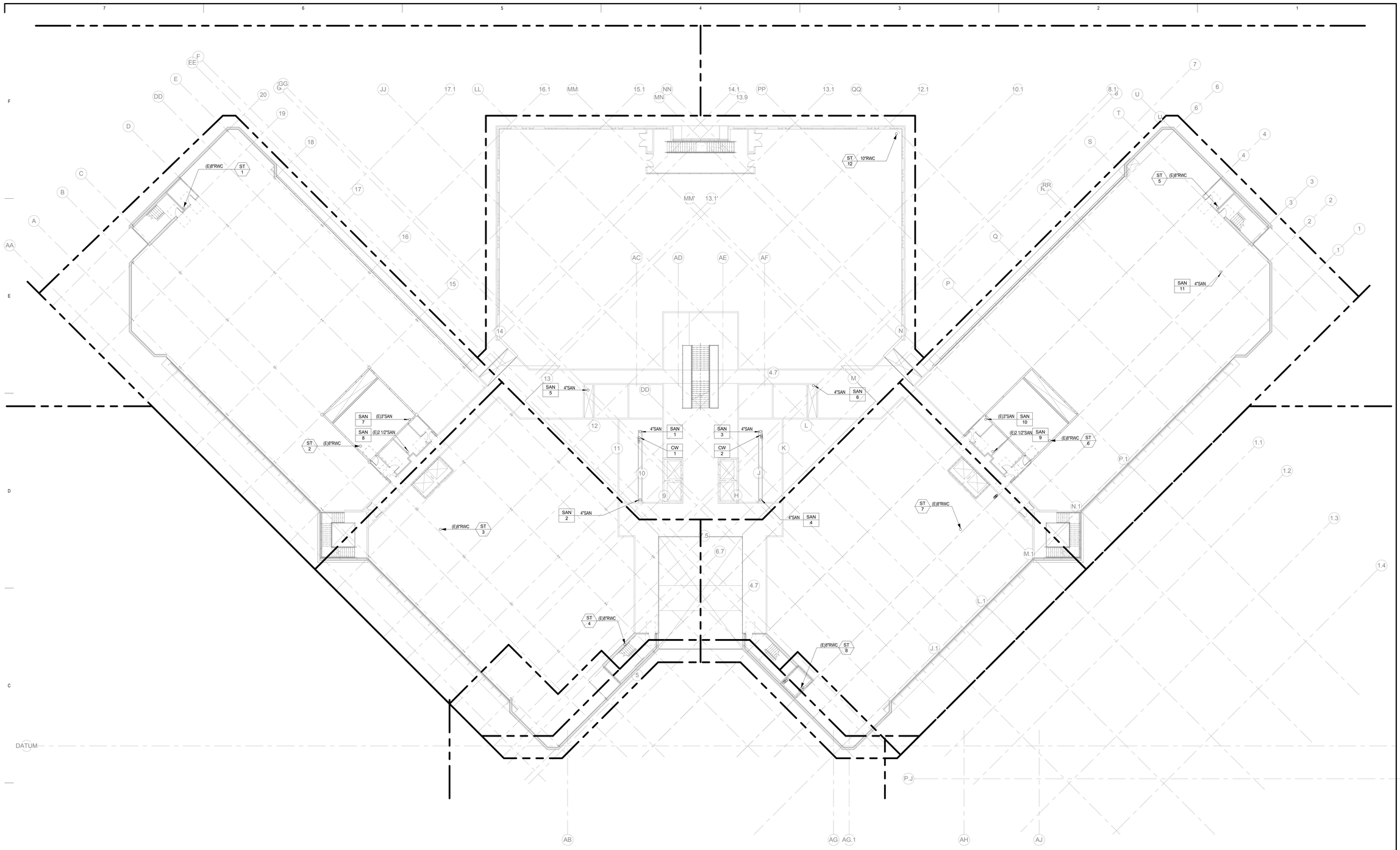


1 PLUMBING - HERSCHLER THIRD FLOOR - OVERALL NORTH
1/16" = 1'-0"

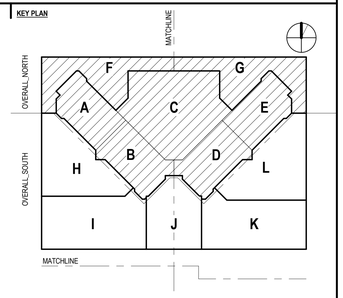
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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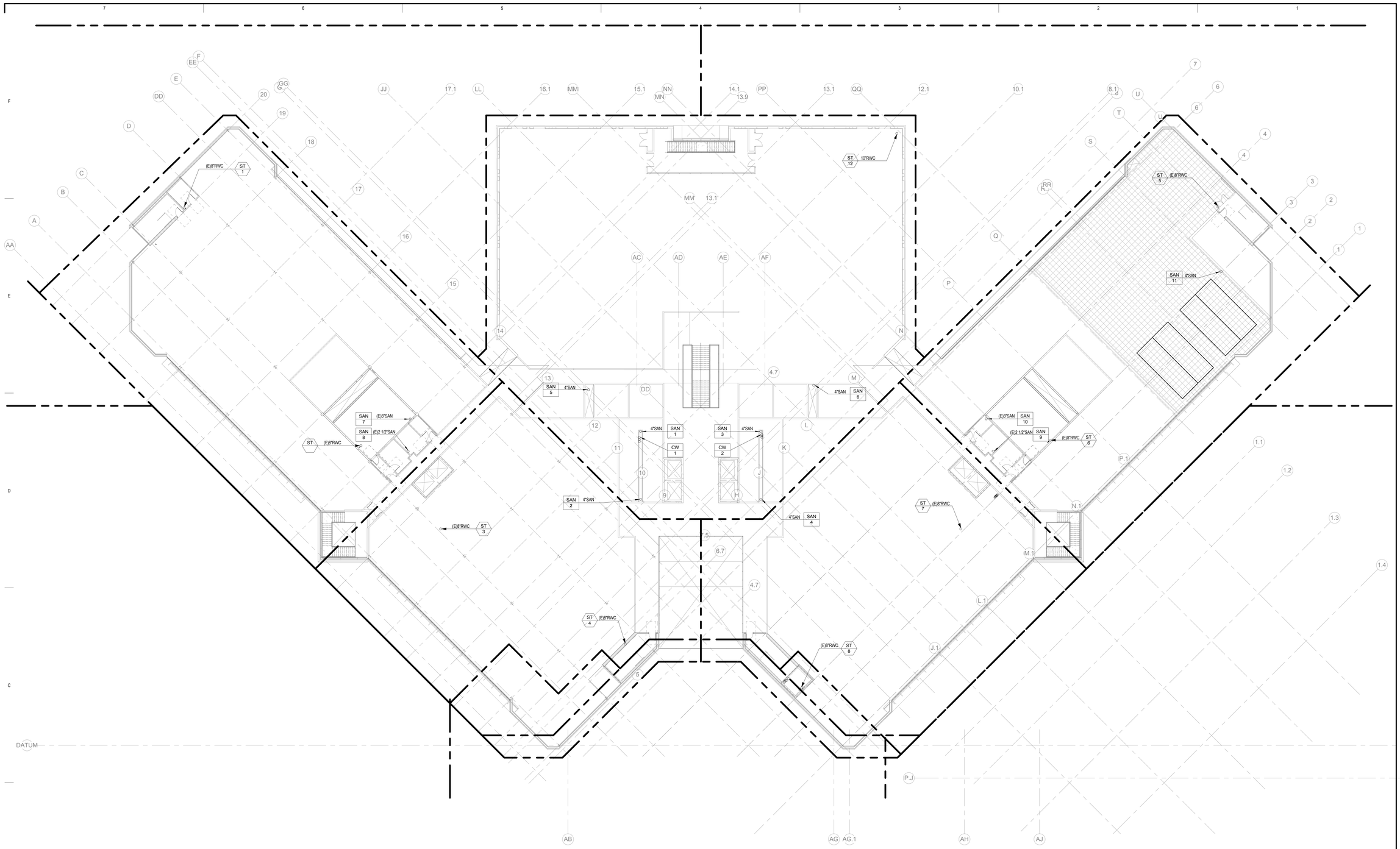
OVERALL PLAN - LEVEL 3 - NORTH

SCALE 1/16" = 1'-0"

3PP130

Schematic Design



1 PLUMBING - HERSCHLER FOURTH FLOOR - OVERALL NORTH
1/16" = 1'-0"

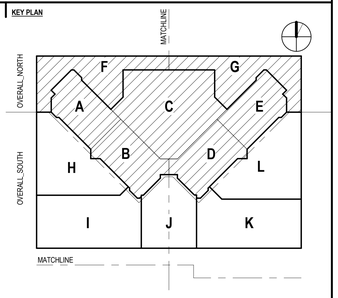
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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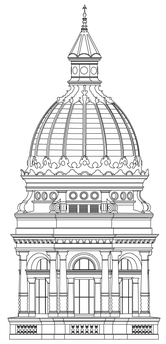

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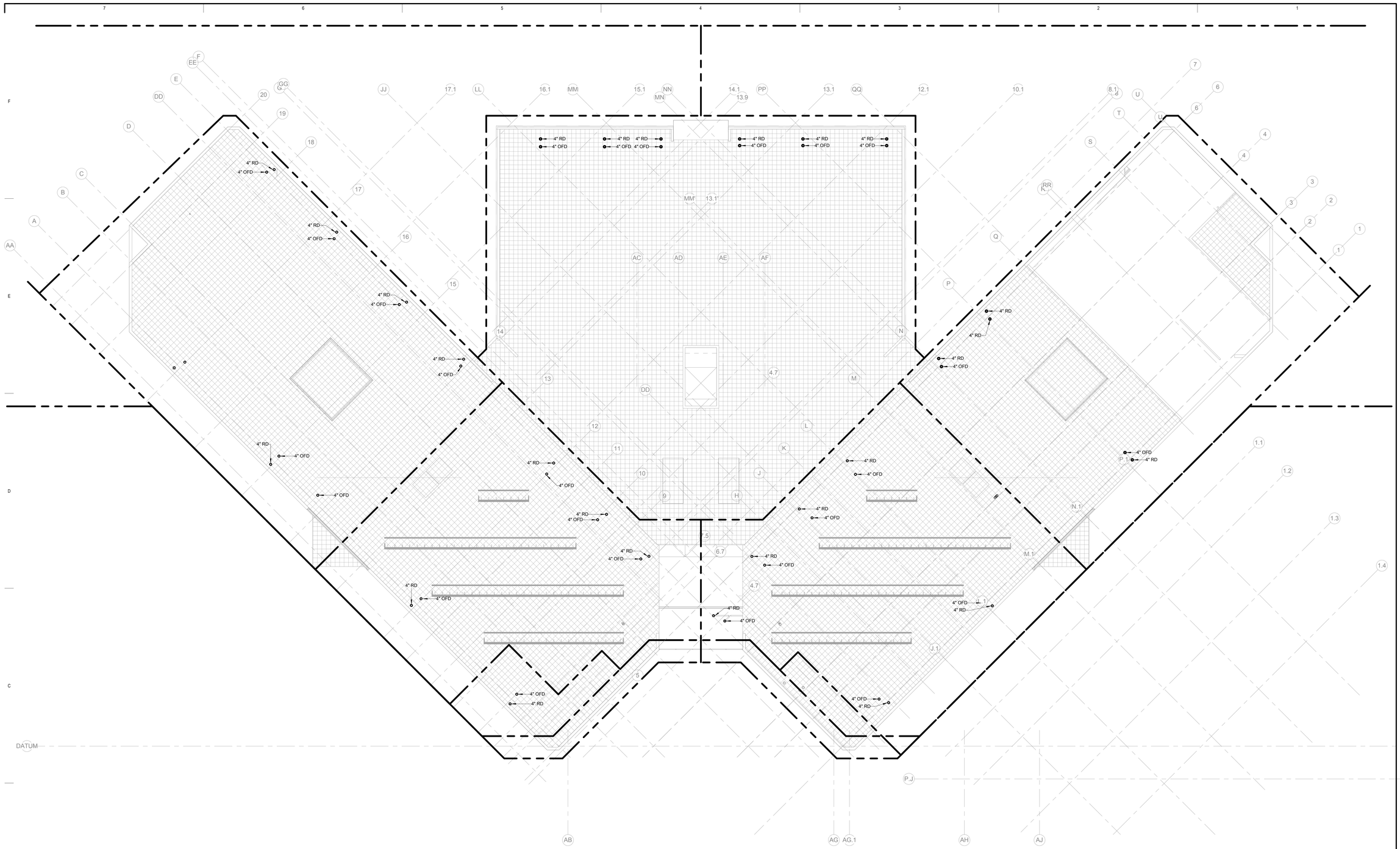
OVERALL PLAN - LEVEL 4 - NORTH

SCALE 1/16" = 1'-0"

3PP140

Schematic Design



1 PLUMBING - HERSCHLER ROOF - OVERALL NORTH
1/16" = 1'-0"

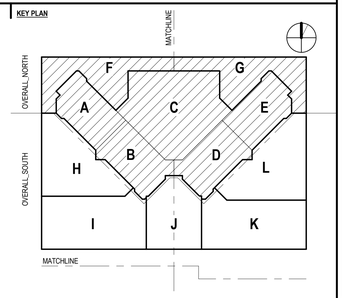
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - ROOF - NORTH

SCALE 1/16" = 1'-0"

3PP150

Schematic Design

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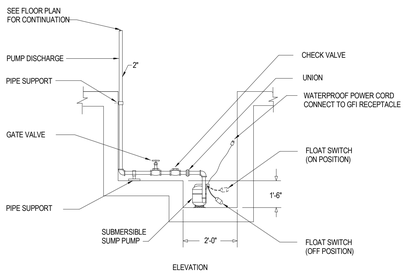
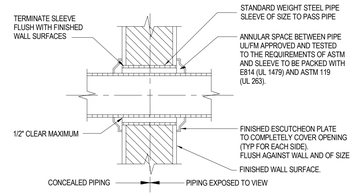
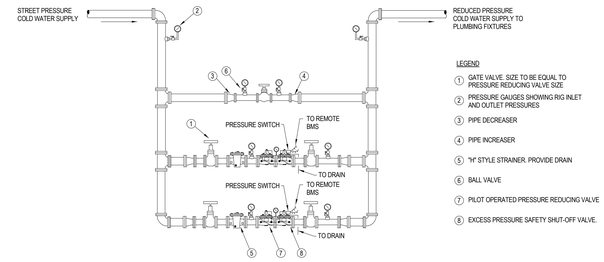


1 ELEVATOR SUMP PUMP DETAIL
12" = 1'-0"

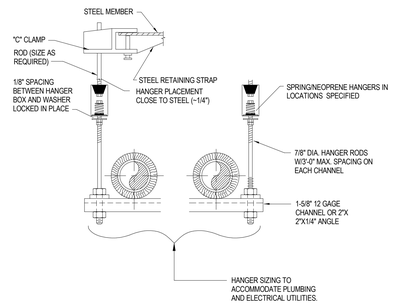


2 FIRE RATED WALL PIPE PENETRATION DETAIL
NOT TO SCALE

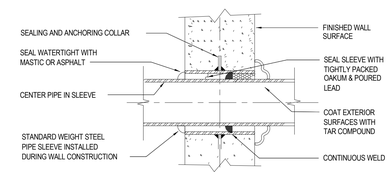


REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. BRACE VALVE ASSEMBLY FIRMLY TO WALL USING WALL BRACKETS.

3 2- STAGE PRESSURE REDUCING VALVE
NOT TO SCALE



4 TRAPEZE PIPE HANGER DETAIL
12" = 1'-0"

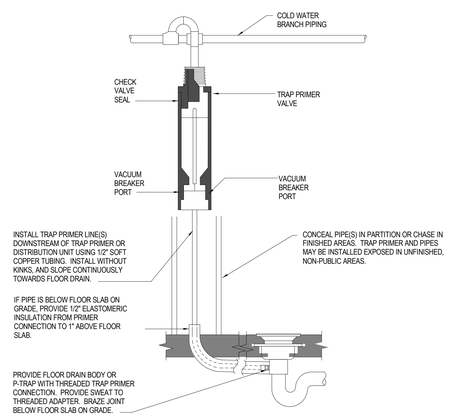


EXTERIOR WALLS

NOTES:

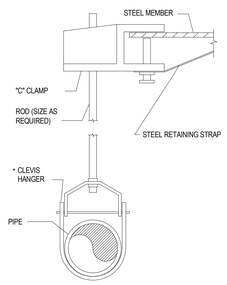
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.

55 PIPE WALL SLEEVE DETAIL
12" = 1'-0"



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE TWELVE FEET OF SOFT COPPER TUBE ABOVE FLOOR FOR CONNECTION TO TRAP PRIMER TO BE LOCATED ABOVE CEILING.

5 TRAP PRIMER DETAIL
12" = 1'-0"



* CLEVIS HANGER REQUIRED ON PIPING LARGER THAN 1" GENERAL PURPOSE HANGERS MAY BE USED ON 1" SPRINKLER PIPING ONLY.

NOTES:

HANGER SPACING SHALL BE AS FOLLOWS:

PIPE SIZE	MAX. HANGER SPACING	MIN. ROD SIZE
1/2" TO 1"	7' O.C.	3/8"
1-1/4" TO 2"	9' O.C.	1/2"
2-1/2" TO 4"	10' O.C.	1/2"
CAST IRON		
ALL	5 FT. O.C. AND BEHIND EVERY HUB	3/8"

7 TYICAL PIPE HANGER DETAIL
12" = 1'-0"

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PLUMBING DETAILS 1

SCALE 12" = 1'-0"

3PX501

Schematic Design

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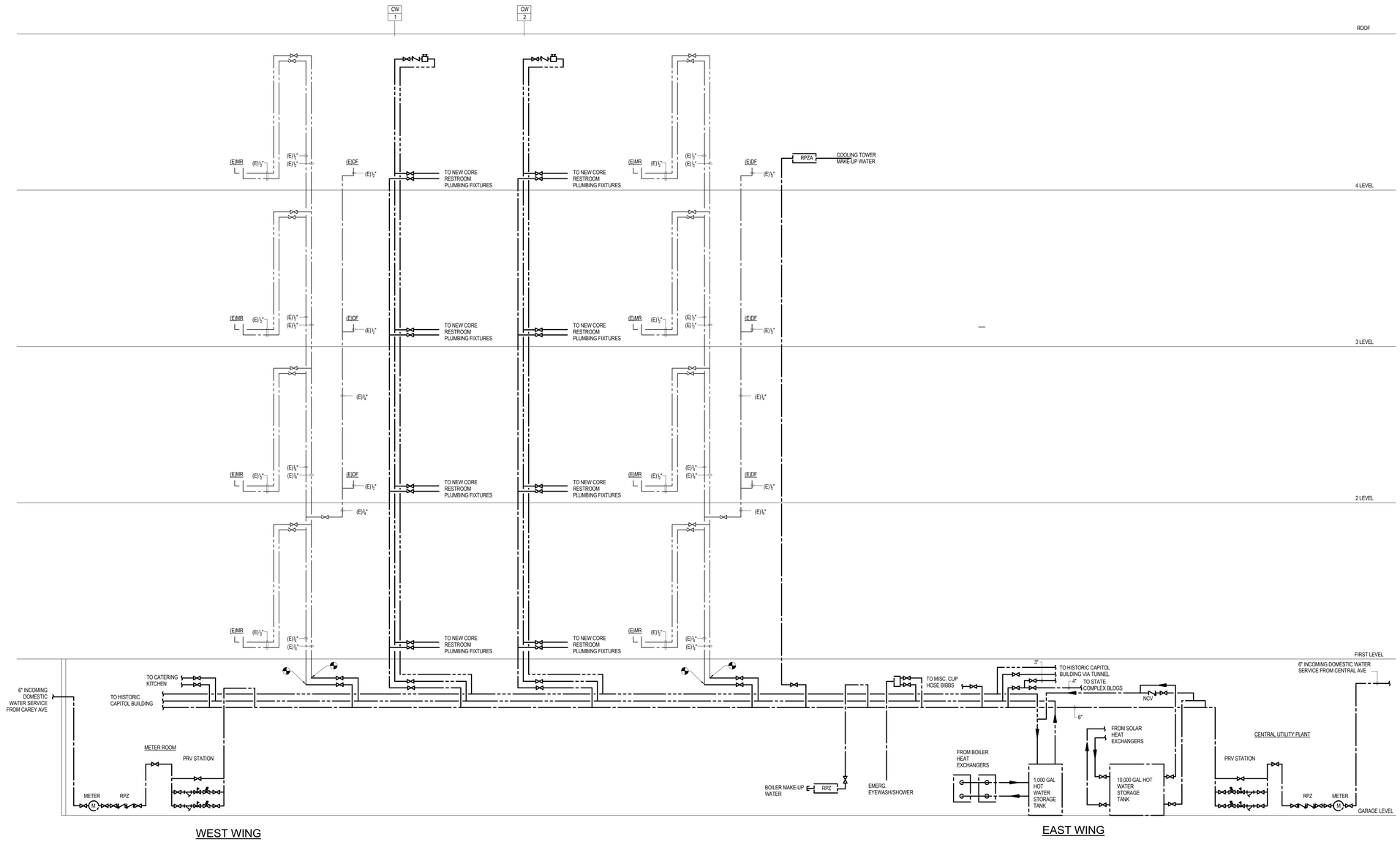

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PLUMBING DOMESTIC WATER RISER DIAGRAM

SCALE: NOT TO SCALE

3PX611

Schematic Design

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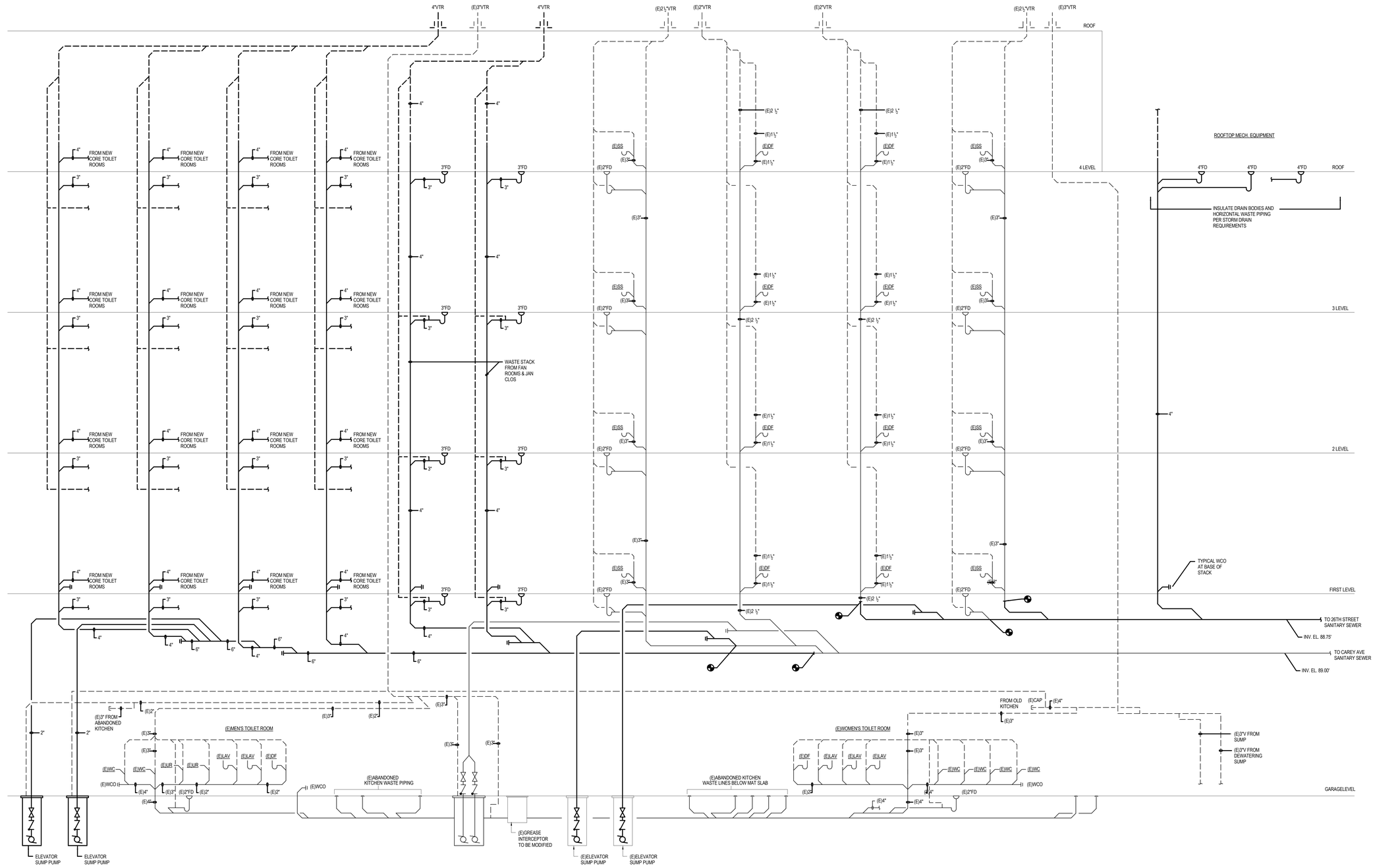

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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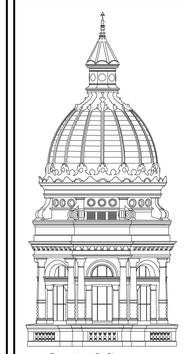

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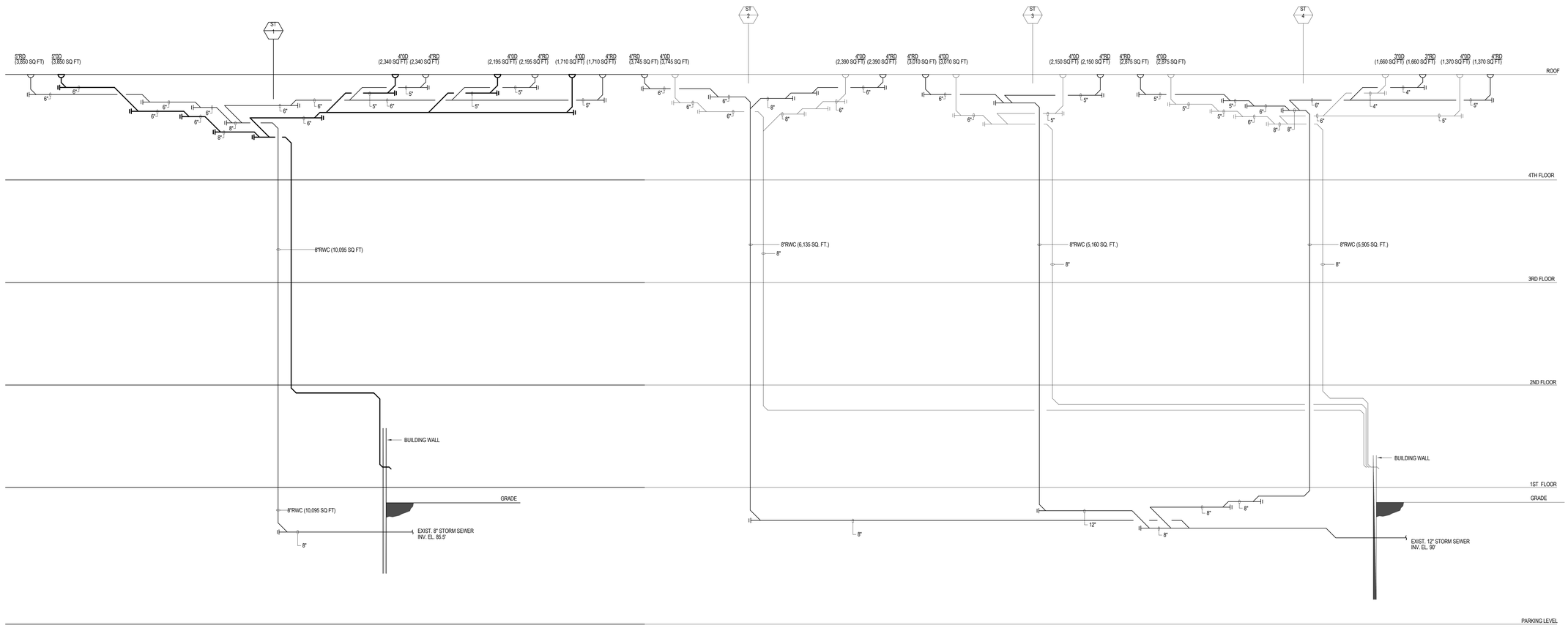
PLUMBING SANITARY RISER DIAGRAM

SCALE NOT TO SCALE

3PX612

Schematic Design



NOTE:
CONTRACTOR SHALL REMOVE ALL EXISTING ROOF AND OVER FLOW DRAINS AND REPLACE WITH NEW (TYP. EACH DRAIN)

GENERAL NOTES

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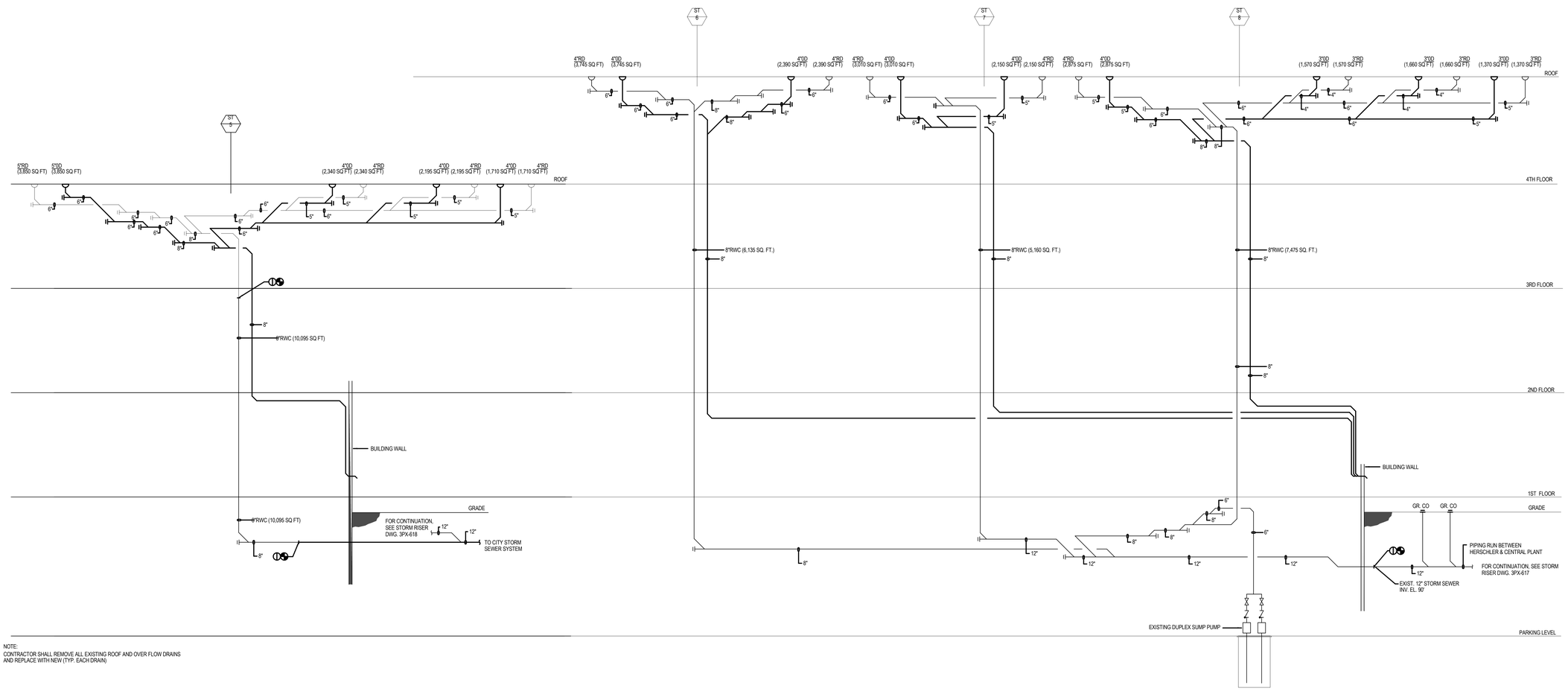
PLUMBING STORM WATER RISER DIAGRAM A

SCALE: NOT TO SCALE

3PX615

Schematic Design



NOTE:
CONTRACTOR SHALL REMOVE ALL EXISTING ROOF AND OVER FLOW DRAINS AND REPLACE WITH NEW (TYP. EACH DRAIN)

GENERAL NOTES | **CONSTRUCTION NOTES** | **GRAPHIC LEGEND** | **KEY PLAN**

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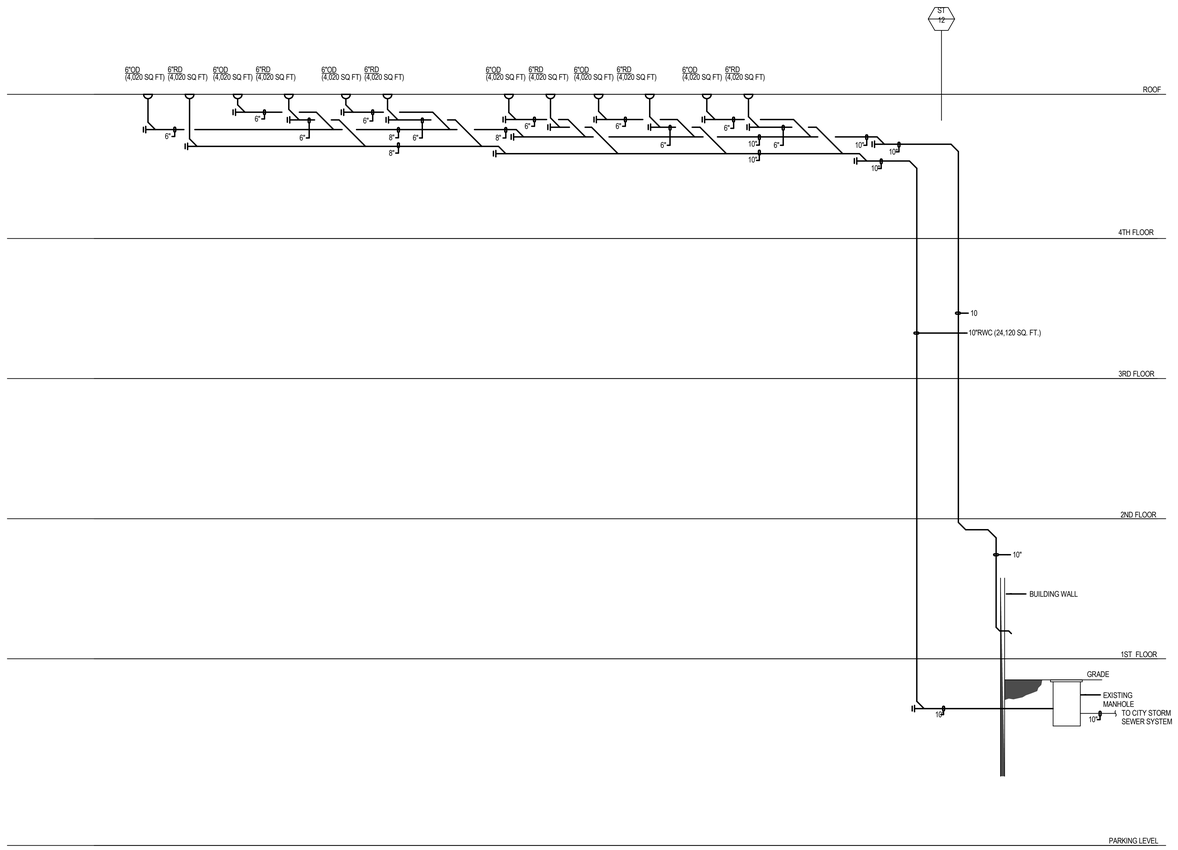
PLUMBING STORM WATER RISER DIAGRAM B

SCALE: NOT TO SCALE

3PX616

Schematic Design



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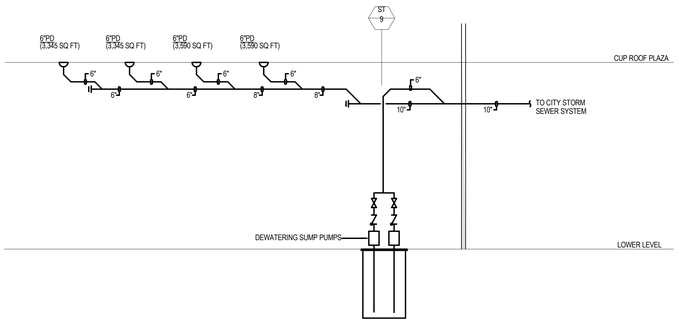
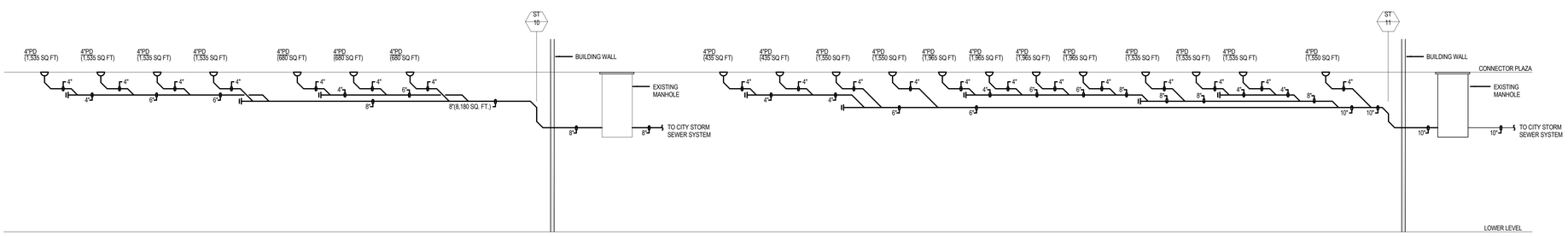
PLUMBING STORM WATER RISER DIAGRAM C

SCALE: NOT TO SCALE

3PX617

Schematic Design





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PLUMBING STORM WATER RISER DIAGRAM D

SCALE NOT TO SCALE

3PX618

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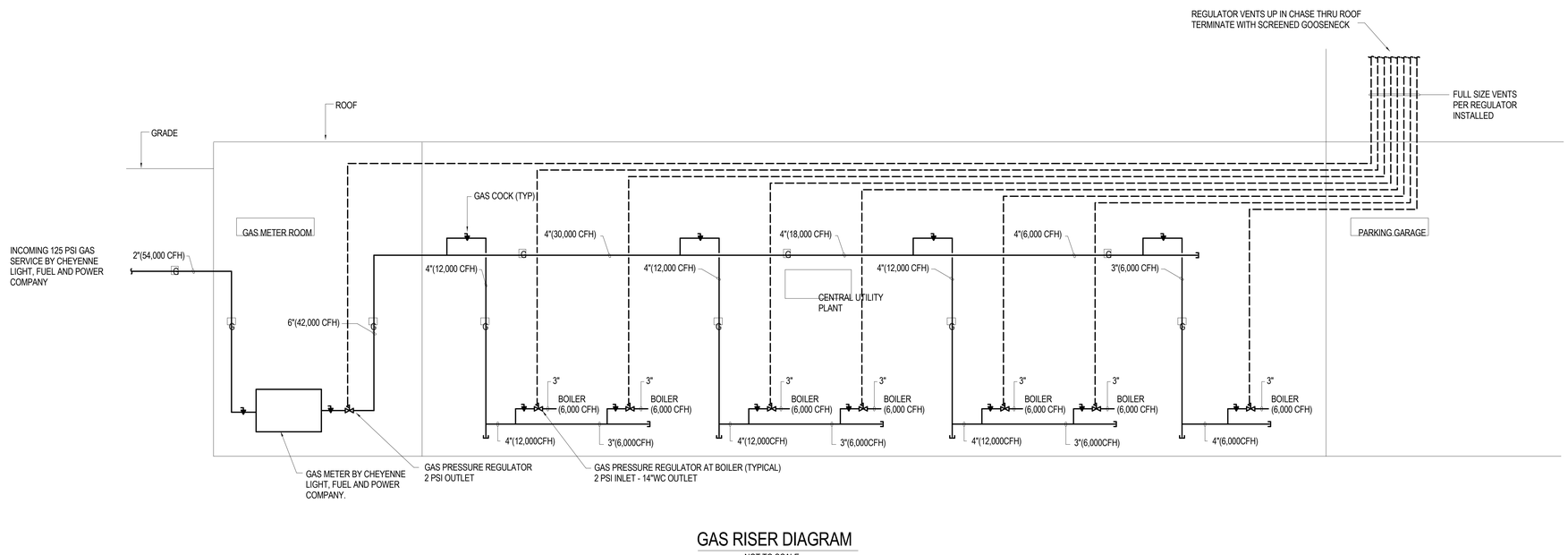

GAS RISER DIAGRAM

NOT TO SCALE

GAS DEVELOPED LENGTH - 250 FEET

GENERAL NOTES

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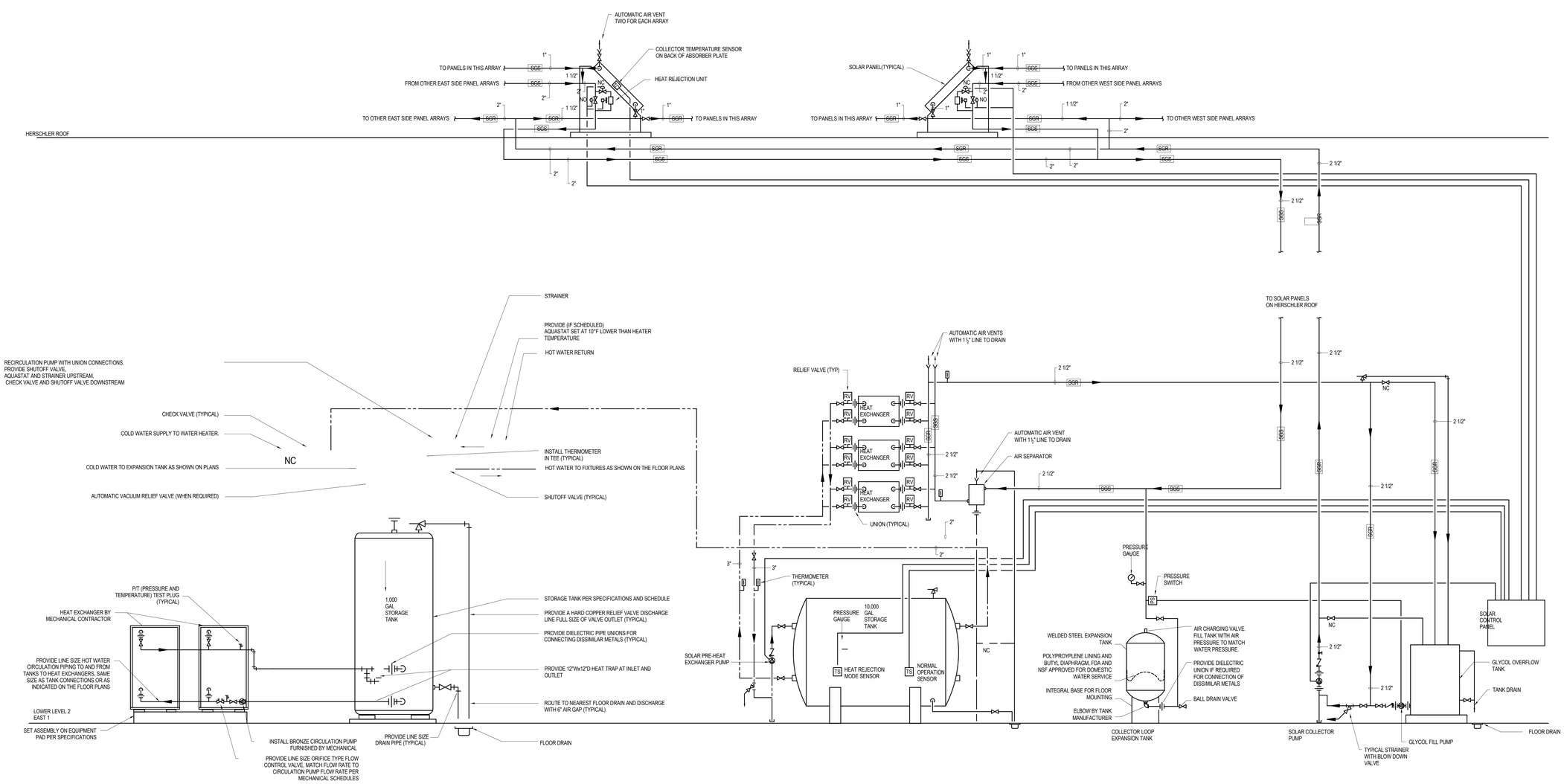
PLUMBING GAS
RISER DIAGRAMS

SCALE NOT TO SCALE

3PX619

Schematic Design



SOLAR PRE-HEAT DOMESTIC WATER DIAGRAM

SCALE: NOT TO SCALE

NOTE: REFER TO SPECIFICATIONS, SCHEDULES AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. VERIFY ALL CONNECTION SIZES AND LOCATIONS PER MANUFACTURES REQUIREMENTS ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. PROVIDE SEISMIC STRAP OR BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. PROVIDE AUTOMATIC VACUUM RELIEF VALVE WHEN REQUIRED BY LOCAL AUTHORITIES. INTERLOCK OF AQUASTAT WITH RECIRCULATION PUMP BY ELECTRICAL. REFER TO MECHANICAL FOR CONTROL OF CIRCULATION PUMP.

GENERAL NOTES

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PLUMBING SOLAR THERMAL RISER DIAGRAM

SCALE NOT TO SCALE

3PX620

Schematic Design

MECHANICAL SYMBOL LIST

TS	TEMPERATURE SENSOR ELECTRIC		
TS H	COMBINATION TEMPERATURE SENSOR/HUMIDISTAT	T	THERMOSTAT (SPACE) ELECTRIC
T	THERMOSTAT (DUCT)	H	HUMIDISTAT
P	DIFFERENTIAL PRESSURE SENSOR	S	SWITCH
BG BG	BREAK GLASS STATION	Fs	FIRESTAT
		Fz	FREEZESTAT
G	NATURAL GAS DETECTOR	C S	CARBON MONOXIDE DETECTOR 'S' INDICATES STAND ALONE TYPE
CO2	CARBON DIOXIDE SENSOR	DDC PDP CAC	DIRECT DIGITAL CONTROL PANEL
	THERMOMETER	1	HVAC FLOOR PLAN KEY NOTES
	SUPPLY AIR OUTLET, 4 WAY		DUCT SECTION UNDER POSITIVE PRESSURE
	RETURN AIR REGISTER		DUCT SECTION UNDER NEGATIVE PRESSURE
	SUPPLY AIR OUTLET - 3, 2 & 1 WAY THROW		SOUND LINING IN DUCT
	DUCTWORK GOING UP		KITCHEN EXHAUST DUCT WITH LATH 2" CALCIUM SILICATE INSULATION AND 2 HOUR RATED ENCLOSURE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
	DUCTWORK GOING DOWN	SD	SMOKE DAMPER WITH DUCT ACCESS DOOR. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN INACCESSIBLE LOCATIONS
SD 3HR / FSD	FIRE SMOKE DAMPER WITH DUCT ACCESS DOOR. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN INACCESSIBLE LOCATIONS 3HR - 3 HOUR RATED FSD		DUCT THROUGH BEAM PENETRATION. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
18 x 12	DUCT SIZE - FIRST SIZE INDICATES PLAN SIZE	A.D.	ACCESS DOOR IN DUCT
DSD	DUCT SMOKE DETECTOR HEAD IN DUCT		DUCT FLEXIBLE CONNECTION
	VOLUME DAMPER		SPIN-IN FITTING WITH VOLUME DAMPER
R	SLOPING RISE IN DUCTWORK	D	SLOPING DROP IN DUCTWORK
FD	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR. COORRDINATE WITH GENERAL CONTRACTOR TO PROVIDE ACCESS DOORS IN INACCESSIBLE LOCATIONS		RETURN OPENING ABOVE H.C. (1 SQ. FT. UNLESS OTHERWISE NOTED)
	MOTORIZED DAMPER	FCU	FAN COIL UNIT
L	LOUVER DOOR		
U	UNDERCUT DOOR	FCU ST	FAN COIL UNIT WITH SOUND TRAP
CB-A	CHILLED BEAM - 2x"A" "A" DENOTES LENGTH		
	CHILLED BEAM - 2x2 4-WAY		

MECHANICAL PIPING SYMBOL LIST

	THERMOMETER		PUMP
S/R	HOT WATER SUPPLY OR RETURN RISER RISER NUMBER	CHWS CHWR HWS HWR	CHILLED WATER SUPPLY AND RETURN. -"G" DENOTES PROPYLENE GLYCOL. HOT WATER SUPPLY AND RETURN. -"G" DENOTES PROPYLENE GLYCOL.
	STRAINER "Y" TYPE WITH BLOWDOWN VALVE		COMBINATION BALANCING & SHUT-OFF VALVE
	PIPE UP		SHUT-OFF VALVE
	PIPE DOWN		SHUT-OFF VALVE WITH CAPPED DRAIN FITTING
	THROTTLING VALVE		AUTOMATIC TWO-WAY CONTROL VALVE
	CHECK VALVE		AUTOMATIC THREE-WAY CONTROL VALVE
	ELECTRIC CONTROL VALVE		UNION
	CONTROL VALVE STATION		ECCENTRIC REDUCER
EJ	PIPE EXPANSION JOINT		RELIEF VALVE
A	AIR LINE		PLUG FOR PRESSURE GAUGE & THERMOMETER CONNECTION
V	VENT LINE		THERMOMETER
TDV	TRIPLE DUTY VALVE		MANUAL AIR VENT
SD	SUCTION DIFFUSER	A	AUTOMATIC AIR VENT
	PRESSURE GAUGE		DIRT POCKET
	PRESSURE RELIEF VALVE		ARROW INDICATES DIRECTION OF FLOW
	COLD WATER MAKE UP LINE	PD	PUMPED CONDENSATE DRAIN
	ARROW INDICATES DIRECTION OF FLOW	D	DRAIN LINE
DP	DIFFERENTIAL PRESSURE TRANSMITTER		
CVA	CHILLED BEAM CONTROL VALVE TRAIN		

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MECHANICAL SYMBOL LIST

SCALE 12" = 1'-0"

3MI001

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MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR	LD	LINEAR DIFFUSER
AFF	ABOVE FINISHED FLOOR	MBH	THOUSAND BTU'S PER HOUR
AL	ACOUSTICAL LINING	NK	NECK (AS RELATED TO DUCT & DIFFUSER)
AHU	AIR HANDLING UNIT	NIC	NOT IN THIS CONTRACT
BG	BOTTOM GRILLE	NTS	NOT TO SCALE
BN	BOTTOM NECK	NC	NORMALLY CLOSED
CAV	CONSTANT AIR VOLUME	NO	NORMALLY OPEN
CB	CHILLED BEAM	OAD	OUTSIDE AIR DAMPER
CC	COOLING COIL	OAI	OUTSIDE AIR INTAKE
CD	CEILING DIFFUSER	OED	OPEN END DUCT WITH WMS
CG	CEILING GRILLE	RA	RETURN AIR
CHW	CHILLED WATER	RHC	REHEAT COIL
CCD	CLEAN OUT DOOR	RTU	ROOFTOP UNIT
CR	CEILING REGISTER	SD	SMOKE DAMPER AND ACCESS DOOR
CFM	CUBIC FEET OF AIR PER MINUTE	SPD	FIRE SMOKE DAMPER USED FOR SMOKE PURGE
CUH	CABINET UNIT HEATER	SMUA	MAKE UP AIR FOR SMOKE PURGE SYSTEM
DSD	DUCT MOUNTED SMOKE DETECTOR	SPX	SMOKE PURGE EXHAUST AIR
EDH	ELECTRIC DUCT HEATER	ST	SOUND ATTENUATOR
EUH	ELECTRIC UNIT HEATER	SX	SMOKE EXHAUST
EA	EXHAUST AIR	SWEH	SIDE WALL ELECTRIC HEATER
EL	ELEVATION	TX	TOILET EXHAUST
FD	FIRE DAMPER AND ACCESS DOOR	TW	THERMOMETER WELL
FSD	FIRE SMOKE DAMPER AND ACCESS DOOR	TD	TRANSFER DUCT
FC	FLEXIBLE CONNECTION	TO	TRANSFER OPENING
FOD	FLAT OVAL DUCT	TG	TOP GRILLE
FOS&R	FUEL OIL SUPPLY AND RETURN	TR	TOP REGISTER
GPM	GALLONS PER MINUTE	TRG	TRANSFER GRILLE
GW	GLYCOL WATER	TRR	TRANSFER REGISTER
GX	GENERAL EXHAUST	TN	TOP NECK
HC	HEATING COIL	UH	UNIT HEATER
HV	HEATING AND VENTILATING UNIT	VAV	VARIABLE AIR VOLUME
HWR	HOT WATER RETURN	WMS	WIRE MESH SCREEN
HWS	HOT WATER SUPPLY		
LE	LAB EXHAUST		

COMPONENT SEISMIC IMPORTANCE FACTORS Ip

COMPONENT	TAG NO.	I p
EMERGENCY GENERATOR VENTILATION FANS	N/A	1.5
EMERGENCY GENERATOR EXHAUST STACK	N/A	1.5
STAIR PRESSURIZATION FANS (SMOKE CONTROL)	N/A	1.5
GENERAL SMOKE CONTROL FANS (MAKE UP AND EXHAUST)	N/A	1.5
HOISTWAY EXHAUST FANS (SMOKE CONTROL, IF USED IN LIEU OF VENTING PER BC 3004.6.1)	SX-1	1.5
STAGE VENTILATION FANS (SMOKE CONTROL)	N/A	1.5
FUEL OIL TANK ROOM EXHAUST FANS	GX-4	1.5
GAS METER ROOM EXHAUST FANS	GX-9	1.5
DUCT SYSTEMS FOR FANS WITH Ip =1.5	SEE ITEMS NOTED ABOVE	1.5
BOILERS - GAS AND OIL FIRED	B-1 TO B-3	1.5
APPLIANCES - GAS AND OIL FIRED (INCLUDING ROOFTOP UNITS)	N/A	1.5
FUEL/DIESEL OIL TANKS	FOT-1	1.5
FUEL/DIESEL OIL PUMPS	FOP-1 & 2	1.5
FUEL/DIESEL OIL PIPING	SEE ITEMS NOTED ABOVE	1.5
STEAM PIPING	N/A	1.5
STEAM HEAT EXCHANGERS	N/A	1.5
STEAM UNIT HEATERS	N/A	1.5
AHU/H&V UNITS WITH STEAM COILS	N/A	1.5
APPLIANCES CONNECTED TO STEAM	N/A	1.5
CONTROL SYSTEMS SERVING EQUIPMENT WITH Ip =1.5	SEE ITEMS NOTED ABOVE	1.5
COMPONENTS CONTAINING HAZARDOUS OR FLAMMABLE MATERIAL IN EXCESS OF MAXIMUMALLOWIABLE QUANTITIES LISTED IN SECTION BC 307	N/A	1.5
COMPONENTS WITH Ip =1.0 LOCATED ABOVE OR IN PROXIMITY TO COMPONENTS WITH Ip =1.5 WHICH COULD DAMAGE COMPONENTS WITH Ip =1.5	NOTE 4	1.5

REMARKS:
FOR ALL ITEMS THAT ARE REQUIRED TO HAVE SEISMIC BRACING OR RESTRAINTS, SEISMIC PLANS AND SEISMIC BRACING CALCULATIONS SHALL BE PREPARED, SEALED, AND SUBMITTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WYOMING ENGAGED BY THE CONTRACTOR. THE ENGINEER SHALL PROVIDE INSTALLATION SUPERVISION OF ALL SEISMIC BRACING AND RESTRAINTS. THE CONTRACTOR'S REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT SIGNED AND SEALED AFFIDAVIT AND AS BUILTS STATING THAT THE INSTALLATION IS IN FULL COMPLIANCE WITH THE SIGNED/SEALED SHOP DRAWINGS.

NOTES:
1. THE DEFAULT FOR TYPICAL COMPONENTS IN NORMAL SERVICE IS Ip=1.0
2. REFER TO STRUCTRUAL DRAWINGS FOR SEISMIC DESIGN CRITERIA INCLUDING SEISMIC DESIGN CATEGORY.
3. REFER TO DETAIL DRAWINGS FOR TYPICAL SEISMIC BRACING.
4. ALL HVAC COMPONENTS IN SEISMIC DESIGN CATEGORY C AND D INCLUDING THOSE WITH Ip = 1.0 SHALL BE SEISMICALLY BRACED.
5. PENDANT SUPPORTED EQUIPMENT SHALL NOT CONTACT ANY OTHER OBJECTION AT A 45° TO VERTICAL.

GENERAL MECHANICAL NOTES:

1. THE CONTRACTOR SHALL CHECK AND VERIFY ALL LEVELS, LINES, AND DIMENSIONS ON THE DRAWINGS INCLUDING EXISTING STRUCTURES AND NOTIFY THE ARCHITECT OF ANY DISCREPANCY IN DRAWINGS AND/OR EXISTING CONDITIONS BEFORE STARTING THE WORK.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
3. ALL JOINTS NOT OTHERWISE FILLED OR COVERED, SHALL BE CAULKED WITH A PERMANENT SEALANT. AS SPECIFIED BY MANUFACTURER, TO MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED OR SHOWN. PUTTY WILL NOT BE PERMITTED.
4. WHEREVER ELECTRICAL CONDUIT, MECHANICAL DUCTS, OR PIPES ARE INSTALLED INTO NEW OR EXISTING SURFACES, FINISH SURFACES WITH MATERIAL TO MATCH ADJACENT MATERIALS UNLESS OTHERWISE DIRECTED. FIRESTOP IF IN RATED SURFACE.
5. ACCESS PANELS SHALL BE PROVIDED OF EQUAL OR BETTER RATING THAN THE SURFACE IN WHICH THEY ARE REQUIRED. ACCESS PANELS SHALL BE INSTALLED WHERE REQUIRED BY CONCEALED ITEMS REQUIRING ACCESS FOR MAINTENANCE OR BY CODES.
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL BUILDING, PLUMBING, AND ELECTRIC CODES.
7. PROVIDE VOLUME DAMPERS AT EACH LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCT BRANCH TAKE-OFF.
8. ALL ELECTRICAL AND TELECOM CLOSETS, ELEVATOR MER AND MER SHALL HAVE A WIRE MESH SCREEN ON ALL RETURN AIR OPENINGS, AND REGISTERS ON SUPPLY OPENINGS U.O.N.
9. ALL OPEN ENDED RETURN DUCTS LOCATED ABOVE HUNG CEILINGS SHALL HAVE WIRE MESH SCREENS.
10. PROVIDE REMOTE OPERATED VOLUME DAMPER FOR ALL AIR OUTLETS IN INACCESSIBLE CEILING SUPPLY, RETURN AND EXHAUST DUCT BRANCH TAKE-OFF.
11. ALL HVAC CEILING DEVICES, SUPPLY AND RETURN LINEAR AIR DEVICES, SHALL BE COORDINATED WITH THE ARCHITECT AND LOCATED PER THE ARCHITECT'S REFLECTED CEILING PLANS. SEE ARCHITECTURAL DRAWINGS, PLANS AND DETAILS.

ENERGY COMPLIANCE DESIGN CRITERIA:

1. MINIMUM INSULATION U (R) VALUES REQUIRED BY ECC:
-REFER TO THE DRAWINGS AND SPECIFICATIONS FOR ACTUAL VALUES.

A. ENVELOPE (NOTE 1):

ENVELOPE	MINIMUM REQUIRED BY ECC 2010
ROOF INSULATION U-FACTOR	0.05 (R-20)
WALL U-FACTOR	0.11
WHOLE WINDOW ASSEMBLY	0.55
GLASS SHGC	0.4

B. MINIMUM DUCTS, PLENUMS INSULATION R VALUES (NOTE 2):

- DUCT INTERIOR/OUTDOORS (R-5)/(R-8) (R-5)/(R-8)

C. MINIMUM PIPING INSULATION THICKNESS (NOTE 3):

FLUID	NOMINAL PIPE DIAMETER	
	<= 1.5"	> 1.5"
HOT WATER	1-1/2"	2"
CHILLED WATER	1-1/2"	1-1/2"
REFRIGERANT	1-1/2"	1-1/2"

NOTES:

1. BASED UPON WINDOW AND GLAZED DOOR AREA OVER 25% BUT NOT GREATER THAN 40% OF ABOVE GRADE WALL AREA.
2. INSULATION PERFORMANCE TO CONFORM TO ECC TABLE 503.2.7
3. BASED ON TABLE 503.2.8. HAVING A CONDUCTIVITY (K) NOT EXCEEDING 0.27 BTU PER INCH/HRFT^2.

DESIGN CRITERIA

DEHUMIDIFICATION:#

DESIGN MONTH	OUTDOOR DRY BULB	OUTDOOR WET BULB	INDOOR REL HUM	INDOOR DRY BULB
AUGUST	-°F	-°F	-%	-°F
WINTER	-8°F	-	-	-°F

COOLING:#

DESIGN MONTH	OUTDOOR DRY BULB	OUTDOOR WET BULB	INDOOR REL HUM	INDOOR DRY BULB
AUGUST	#°F	#°F	#%	#°F
WINTER	#°F	-	-	#°F

GENERAL NOTES | **CONSTRUCTION NOTES** | **GRAPHIC LEGEND** | **KEY PLAN**

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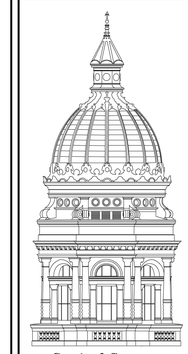

Capitol Square
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

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MECHANICAL NOTES & ABBREVIATIONS

SCALE 12" = 1'-0"

3MI002

Schematic Design

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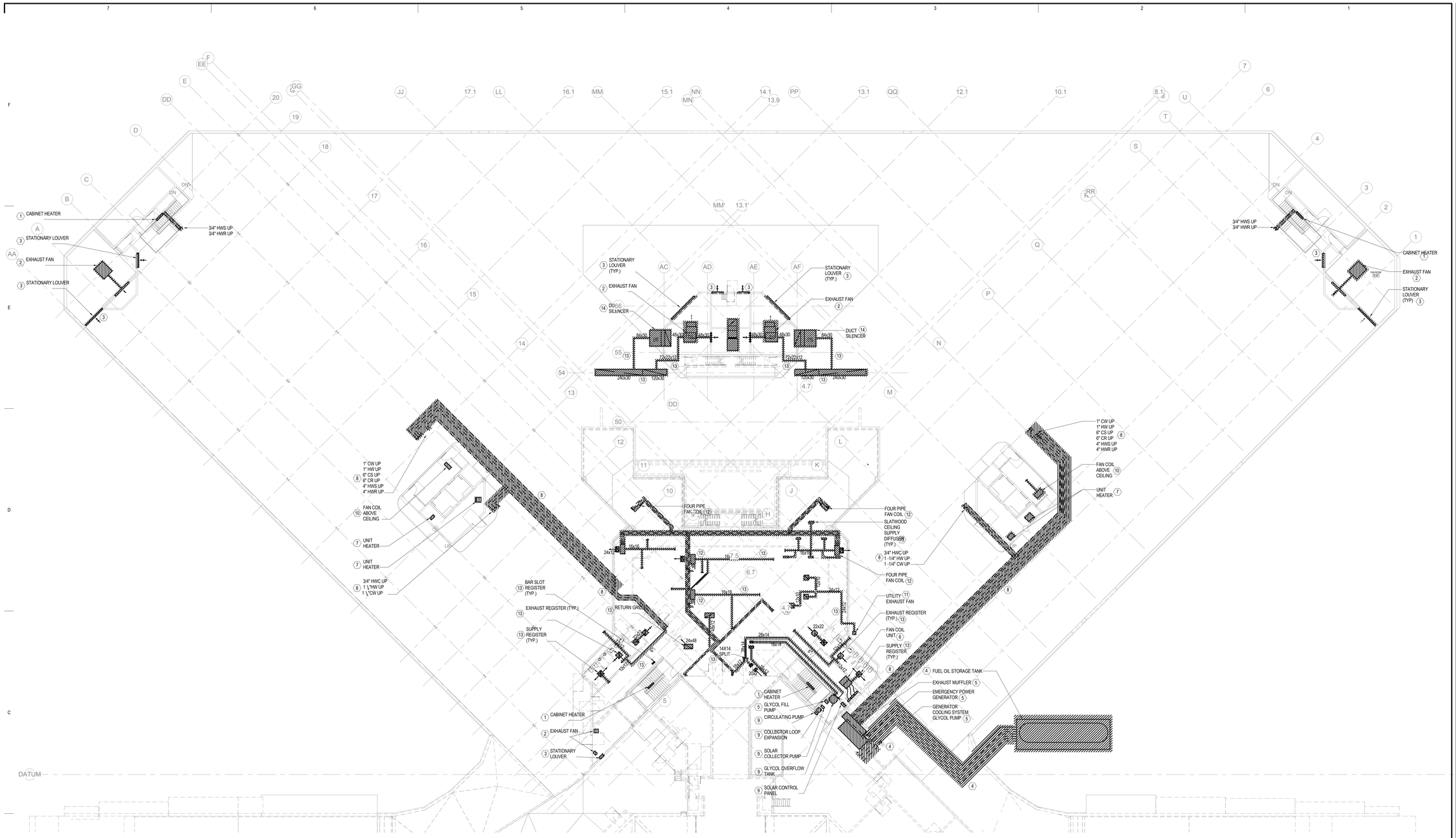


1 LOWER LEVEL- NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

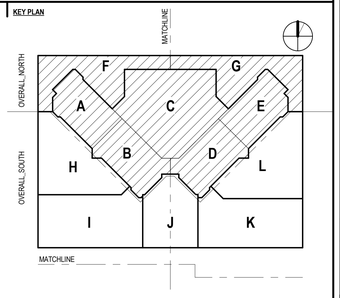
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED PIPING INCLUDING RISERS. PATCH AND REPAIR WALL AND CEILING AS NECESSARY.
2.	REMOVE EXISTING EXHAUST FAN, MOUNTS AND SUPPORTS, AND ASSOCIATED DUCTWORK INCLUDING RISERS. PATCH AND REPAIR WALL AND CEILING AS NECESSARY.
3.	REMOVE EXISTING LOUVER. PATCH AND REPAIR WALL AS NECESSARY.
4.	REMOVE EXISTING FUEL OIL STORAGE TANK GAS METER, PADS, CONTROLS AND ASSOCIATED FUEL OIL AND GAS PIPING.
5.	REMOVE EXISTING GENERATOR COOLING SYSTEM GLYCOL PUMP, EMERGENCY POWER GENERATOR, EXHAUST MUFFLER AND ALL ASSOCIATED APPURTENANCES.
6.	REMOVE EXISTING FOUR PIPE FAN COIL UNIT, MOUNTS AND SUPPORTS, AND ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS. PATCH AND REPAIR WALL AND CEILING AS NECESSARY.
7.	REMOVE EXISTING UNIT HEATERS AND ASSOCIATED PIPING.
8.	REMOVE ALL EXISTING PIPING, HANGERS, SADDLES AND SUPPORTS, INCLUDING RISERS.
9.	REMOVE EXISTING SOLAR COLLECTOR PUMP, LOOP EXPANSION, CIRCULATING PUMP, GLYCOL FILL PUMP, SOLAR CONTROL PANEL, GLYCOL OVERFLOW TANK AND ASSOCIATED PIPING, MOUNTS AND SUPPORTS.
10.	REMOVE EXISTING FAN COIL UNIT, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS.
11.	REMOVE EXISTING UTILITY EXHAUST FAN, ASSOCIATED DUCTWORK AND TERMINAL DEVICES, INCLUDING RISERS.
12.	REMOVE EXISTING FOUR PIPE FAN COIL UNITS, ASSOCIATED DUCTWORK AND PIPING, SUPPLY AND RETURN TERMINAL DEVICES, INCLUDING RISERS.
13.	REMOVE EXISTING DUCTWORK, SUPPLY, RETURN AND EXHAUST TERMINAL DEVICES, INCLUDING RISERS.
14.	REMOVE DUCT SILENCERS (D.S.)

GRAPHIC LEGEND

KEY PLAN



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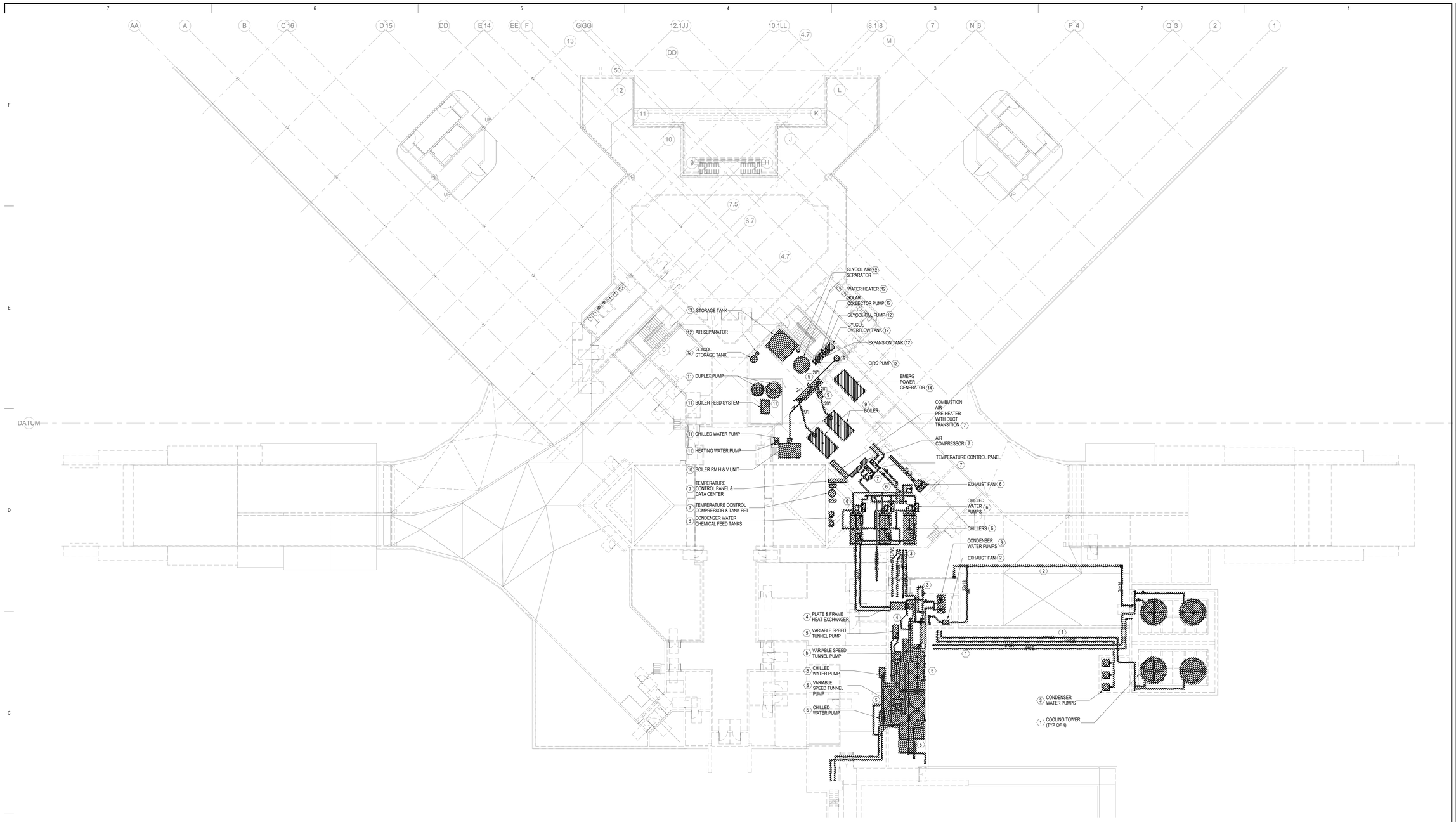
OVERALL DEMOLITION PLAN - LOWER LEVEL 1 -NORTH

SCALE As indicated

3MD100

Schematic Design



1 LOWER LEVEL
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

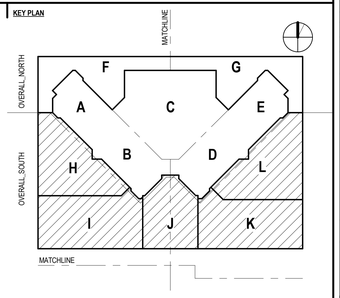
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE EXISTING COOLING TOWERS, ASSOCIATED DUCTWORK, PIPING AND APPURTENANCES.
2.	REMOVE EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK.
3.	REMOVE EXISTING CONDENSER WATER PUMPS, ASSOCIATED PIPING, PADS AND APPURTENANCES.
4.	REMOVE EXISTING PLATE AND FRAME HEAT EXCHANGER AND ALL ASSOCIATED PIPING AND APPURTENANCES.
5.	REMOVE EXISTING VARIABLE SPEED TUNNEL PUMPS AND CHILLED WATER PUMPS, ASSOCIATED PIPING, PADS AND APPURTENANCES.
6.	REMOVE EXISTING EXHAUST FAN, CHILLERS, CHILLED WATER PUMPS, ASSOCIATED PIPING AND DUCTWORK, PADS AND APPURTENANCES.
7.	REMOVE EXISTING COMBUSTION AIR PRE HEATER, TEMPERATURE CONTROL PANELS, TEMPERATURE CONTROL COMPRESSOR AND TANK SET AND APPURTENANCES.
8.	REMOVE EXISTING CONDENSER WATER CHEMICAL FEED TANKS, ASSOCIATED PIPING, PADS AND APPURTENANCES.
9.	REMOVE EXISTING BOILERS, FLUE DUCTWORK, PADS AND ASSOCIATED PIPING.
10.	REMOVE EXISTING BOILER ROOM HEATING AND VENTILATION UNIT AND ASSOCIATED DUCTWORK INCLUDING RISERS.
11.	REMOVE DUPLEX PUMPS, BOILER FEED SYSTEM, CHILLED WATER PUMP, HEATING WATER PUMP, ASSOCIATED PIPING, PADS AND APPURTENANCES.
12.	REMOVE GLYCOL AIR SEPARATOR, GLYCOL STORAGE TANK, WATER HEATER, SOLAR COLLECTOR PUMP, GLYCOL PUMP, GLYCOL OVERFLOW TANK, EXPANSION TANK, CIRCULATIING PUMP, PADS, ASSOCIATED PIPING AND APPURTENANCES.
13.	REMOVE STORAGE TANK.
14.	REMOVE EMERGENCY POWER GENERATOR AND APPURTENANCES.

GRAPHIC LEGEND

KEY PLAN



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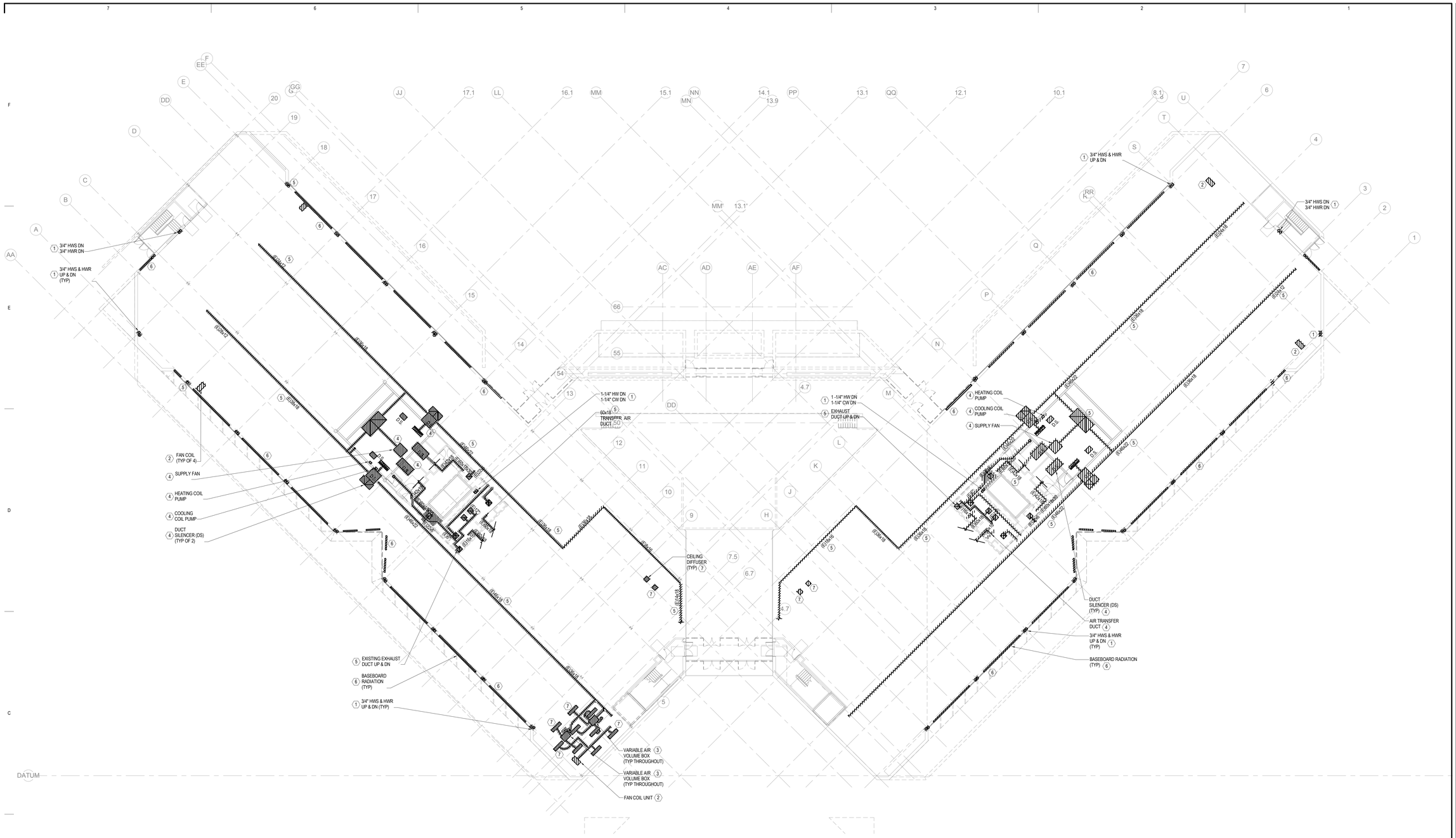
OVERALL DEMOLITION PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3MD101

Schematic Design



1 DEMO HERSCHLER FIRST FLOOR (100'-0")
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

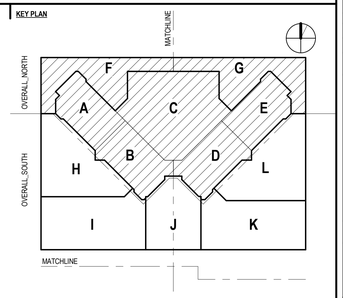
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE EXISTING HOT WATER SUPPLY AND HOT WATER RETURN PIPING, MOUNTS AND SUPPORTS, INCLUDING RISERS.
2.	REMOVE EXISTING FAN COIL UNIT, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS.
3.	REMOVE EXISTING VARIABLE AIR VOLUME BOX, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES (TYPICAL THROUGHOUT).
4.	REMOVE EXISTING SUPPLY FAN, HEATING COIL PUMP, COOLING COIL PUMP AND DUCT SILENCER (DS) (TYPICAL THROUGHOUT).
5.	REMOVE ALL EXISTING DUCTWORK AND DUCT RISERS, REMOVE ALL EXISTING PIPING AND PIPE RISERS.
6.	REMOVE EXISTING PERIMETER BASEBOARD RADIATION (TYPICAL THROUGHOUT).
7.	REMOVE EXISTING TERMINAL DEVICES, LINEAR DIFFUSERS, REGISTERS AND GRILLES.

GRAPHIC LEGEND

KEY PLAN



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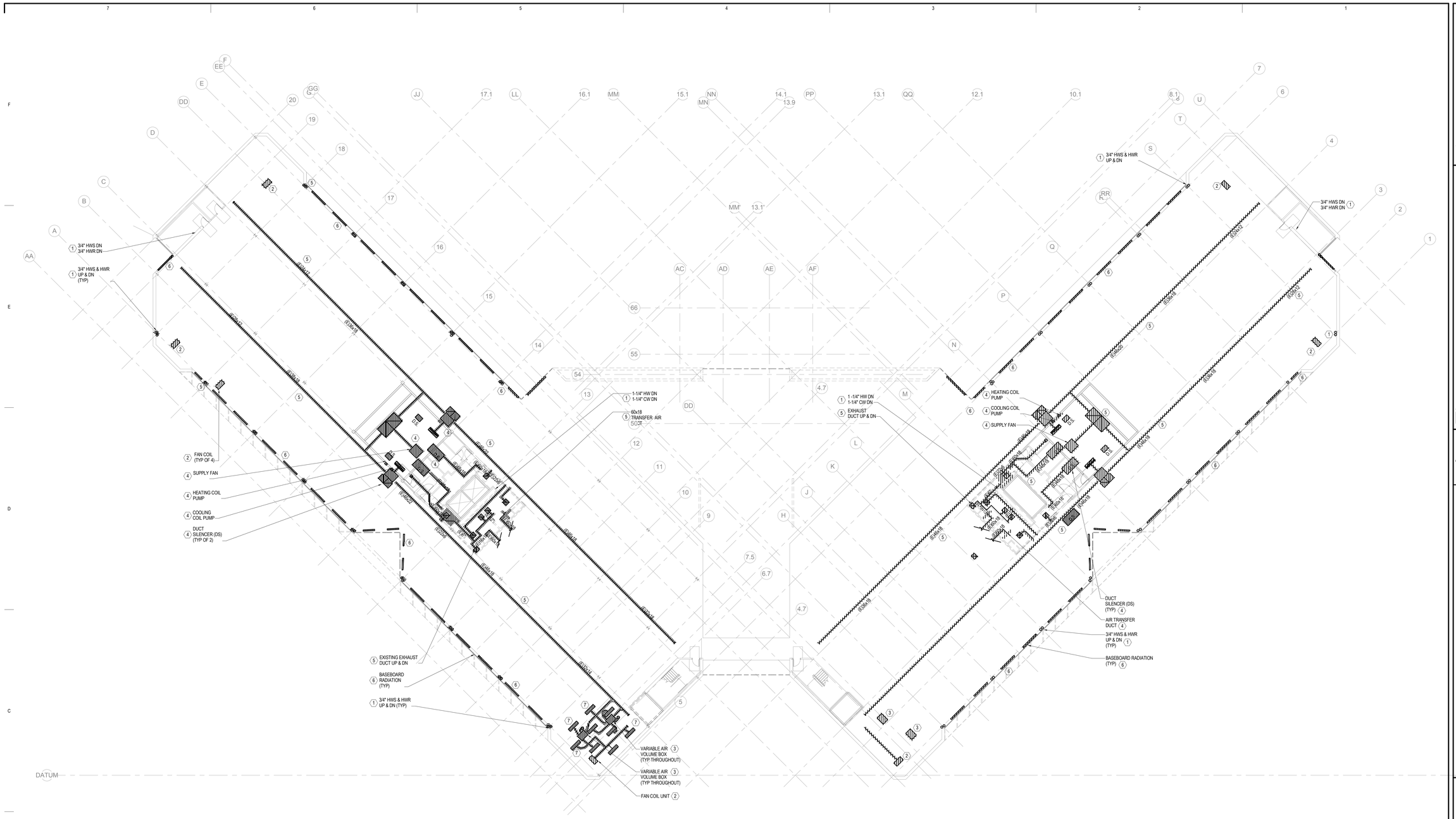
OVERALL DEMOLITION PLAN - LEVEL 1 - NORTH

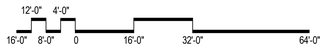
SCALE As indicated

3MD110

Schematic Design



1 HERSCHLER SECOND FLOOR (113'-6")
1/16" = 1'-0"



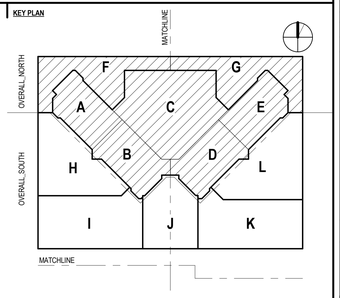
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE EXISTING HOT WATER SUPPLY AND HOT WATER RETURN PIPING, MOUNTS AND SUPPORTS, INCLUDING RISERS.
2.	REMOVE EXISTING FAN COIL UNIT, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS.
3.	REMOVE EXISTING VARIABLE AIR VOLUME BOX, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES (TYPICAL THROUGHOUT).
4.	REMOVE EXISTING SUPPLY FAN, HEATING COIL PUMP, COOLING COIL PUMP AND DUCT SILENCER (DS) (TYPICAL THROUGHOUT).
5.	REMOVE ALL EXISTING DUCTWORK AND DUCT RISERS, REMOVE ALL EXISTING PIPING AND PIPE RISERS.
6.	REMOVE EXISTING PERIMETER BASEBOARD RADIATION (TYPICAL THROUGHOUT).
7.	REMOVE EXISTING TERMINAL DEVICES, LINEAR DIFFUSERS, REGISTERS AND GRILLES.

GRAPHIC LEGEND

KEY PLAN



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OVERALL DEMOLITION PLAN - LEVEL 2 - NORTH

SCALE: As indicated

3MD120

Schematic Design

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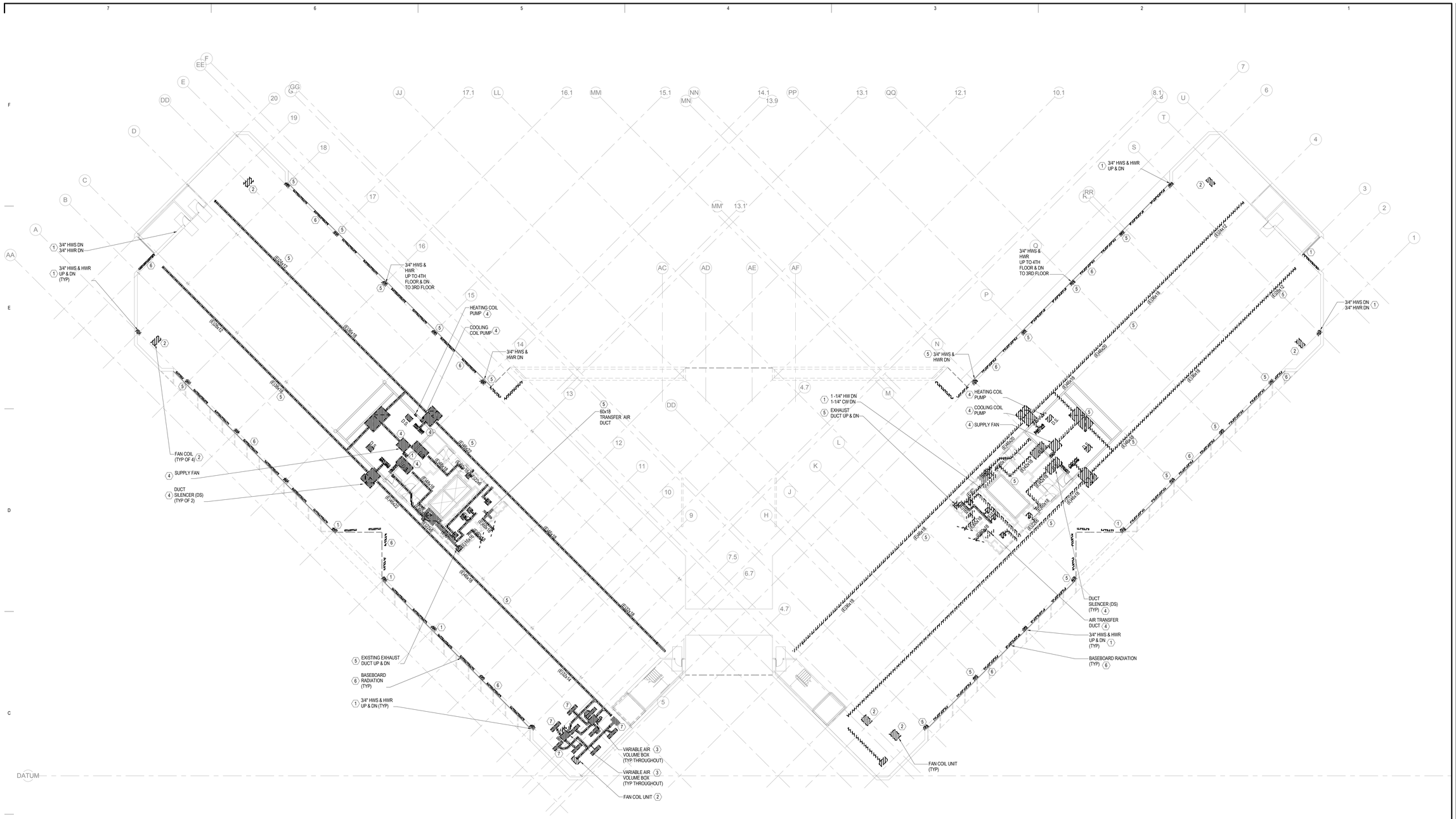
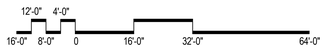


1 HERSCHLER THIRD FLOOR (127'-0")
1/16" = 1'-0"



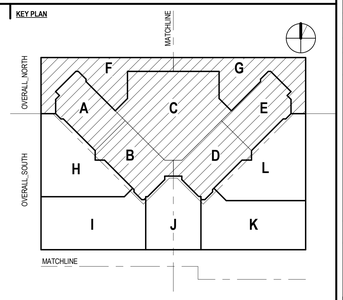
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	REMOVE EXISTING HOT WATER SUPPLY AND HOT WATER RETURN PIPING, MOUNTS AND SUPPORTS, INCLUDING RISERS.
2.	REMOVE EXISTING FAN COIL UNIT, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS.
3.	REMOVE EXISTING VARIABLE AIR VOLUME BOX, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES (TYPICAL THROUGHOUT).
4.	REMOVE EXISTING SUPPLY FAN, HEATING COIL PUMP, COOLING COIL PUMP AND DUCT SILENCER (DS) (TYPICAL THROUGHOUT).
5.	REMOVE ALL EXISTING DUCTWORK AND DUCT RISERS, REMOVE ALL EXISTING PIPING AND PIPE RISERS.
6.	REMOVE EXISTING PERIMETER BASEBOARD RADIATION (TYPICAL THROUGHOUT).
7.	REMOVE EXISTING TERMINAL DEVICES, LINEAR DIFFUSERS, REGISTERS AND GRILLES.

GRAPHIC LEGEND

KEY PLAN



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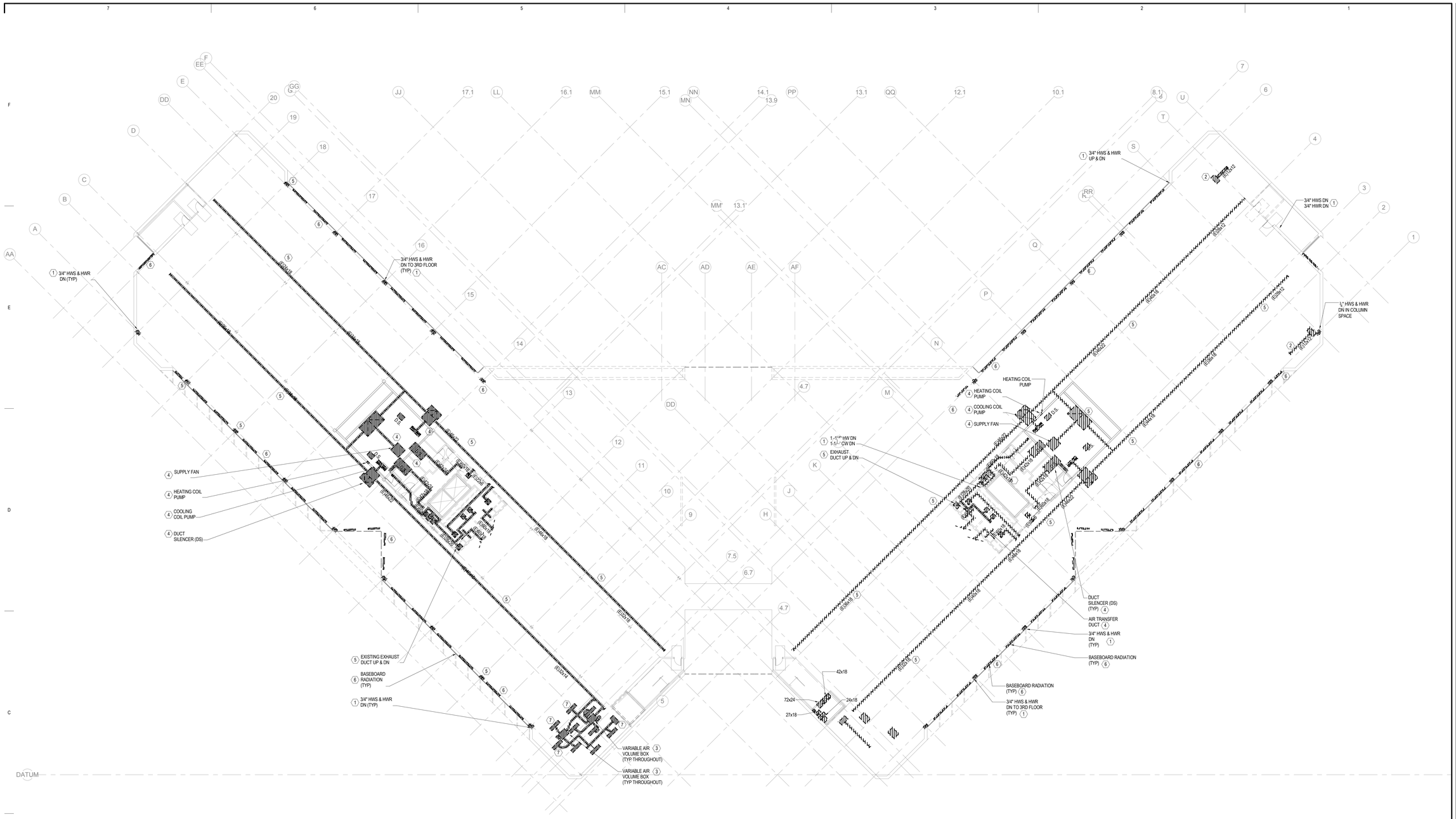
OVERALL DEMOLITION PLAN - LEVEL 3 - NORTH

SCALE: As indicated

3MD130

Schematic Design



1 HERSCHLER FOURTH FLOOR
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

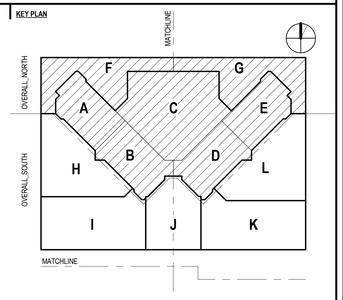
GENERAL NOTES

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	REMOVE EXISTING HOT WATER SUPPLY AND HOT WATER RETURN PIPING, MOUNTS AND SUPPORTS, INCLUDING RISERS.
2.	REMOVE EXISTING FAN COIL UNIT, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND PIPING, TERMINAL DEVICES, INCLUDING RISERS.
3.	REMOVE EXISTING VARIABLE AIR VOLUME BOX, MOUNTS AND SUPPORTS, ASSOCIATED DUCTWORK AND TERMINAL DEVICES (TYPICAL THROUGHOUT).
4.	REMOVE EXISTING SUPPLY FAN, HEATING COIL PUMP, COOLING COIL PUMP AND DUCT SILENCER (DS) (TYPICAL THROUGHOUT).
5.	REMOVE ALL EXISTING DUCTWORK AND DUCT RISERS, REMOVE ALL EXISTING PIPING AND PIPE RISERS.
6.	REMOVE EXISTING PERIMETER BASEBOARD RADIATION (TYPICAL THROUGHOUT).
7.	REMOVE EXISTING TERMINAL DEVICES, LINEAR DIFFUSERS, REGISTERS AND GRILLES.

GRAPHIC LEGEND

KEY PLAN



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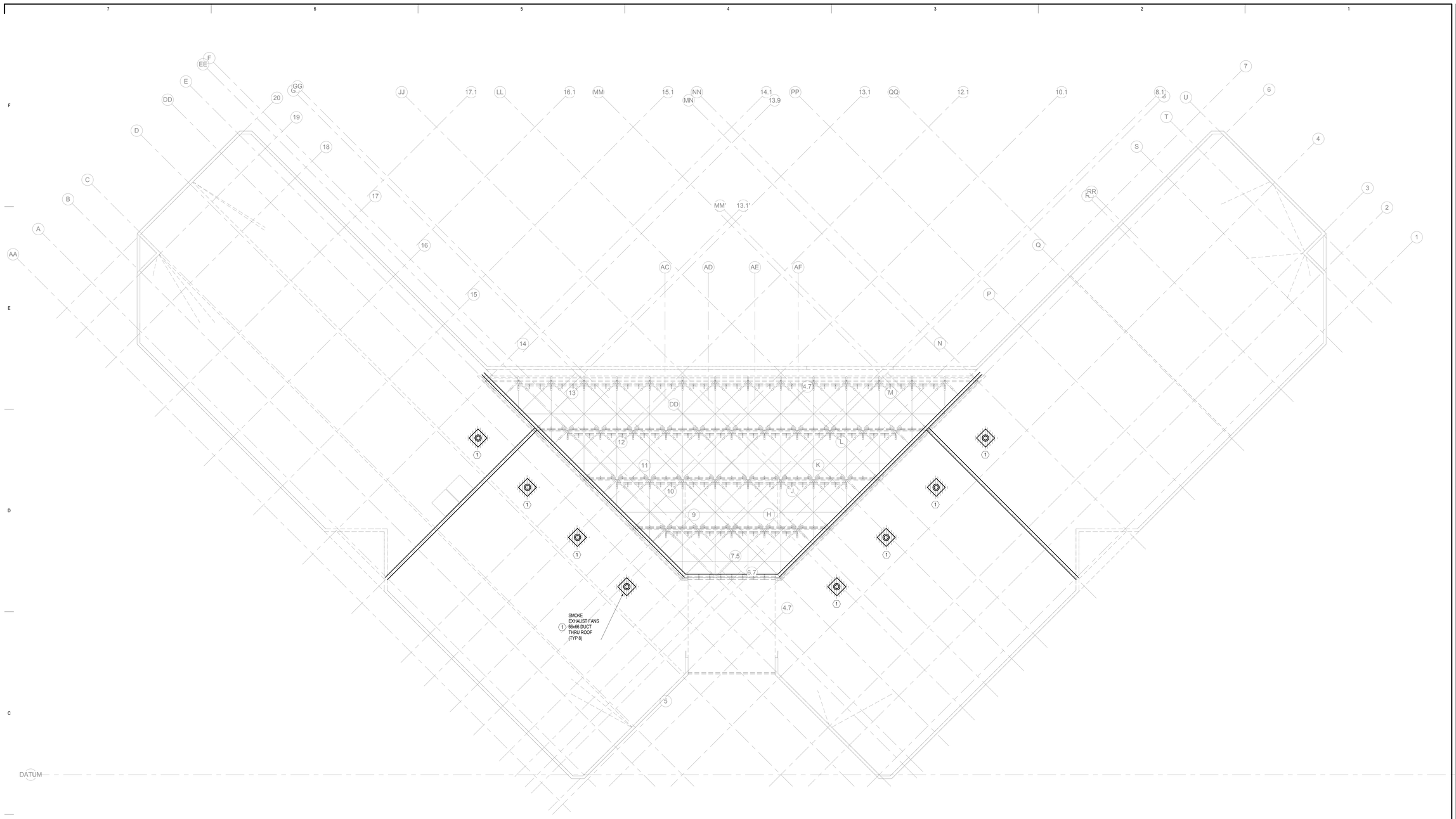
OVERALL DEMOLITION PLAN - LEVEL 4 - NORTH

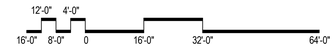
SCALE: As indicated

3MD140

Schematic Design



1 HERSCHLER ROOF
1/16" = 1'-0"



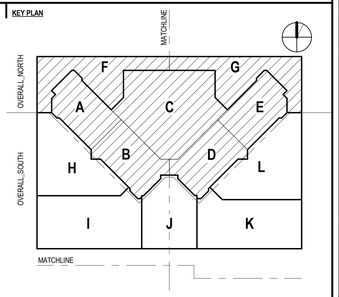
GENERAL NOTES

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	REMOVE EXISTING SMOKE EXHAUST FANS, ASSOCIATED DUCTWORK THRU ROOF, PADS, AND SUPPORTS. COORDINATE WITH ARCHITECTURAL DISCIPLINE. TYPICAL FOR ALL FANS.

GRAPHIC LEGEND

KEY PLAN



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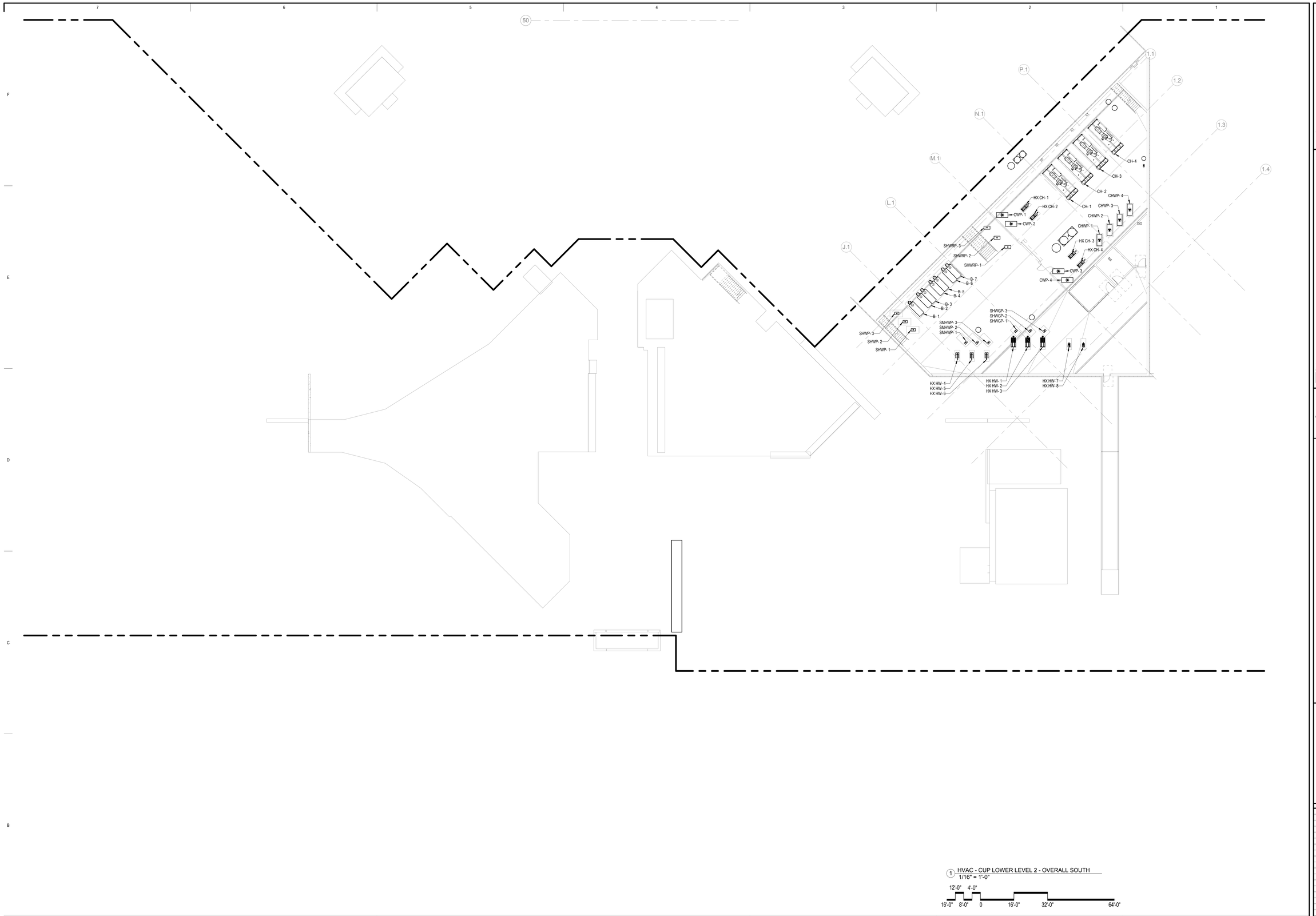
OVERALL DEMOLITION PLAN - ROOF - NORTH

SCALE As indicated

3MD150

Schematic Design



1 HVAC - CUP LOWER LEVEL 2 - OVERALL SOUTH
1/16" = 1'-0"

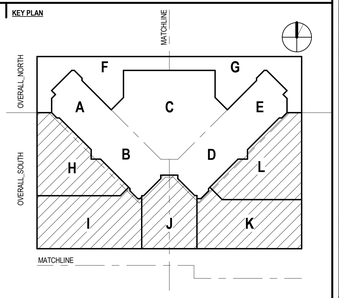
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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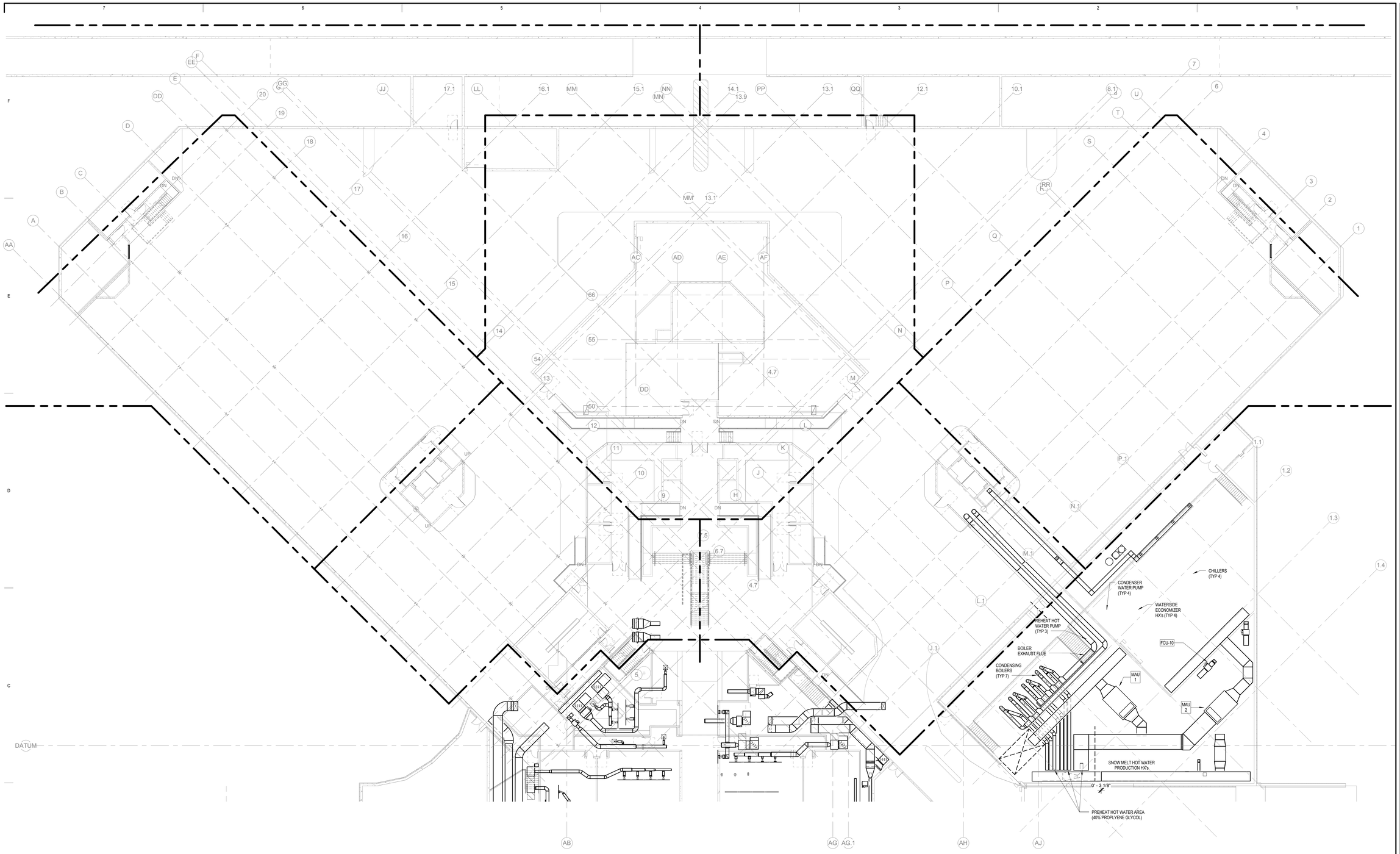
OVERALL PLAN - LOWER LEVEL 2 - SOUTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH10L

Schematic Design



1 HVAC - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

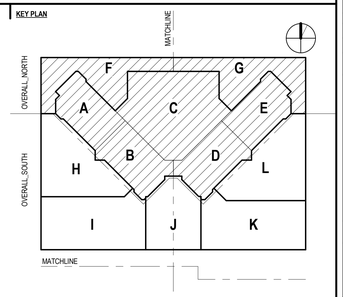
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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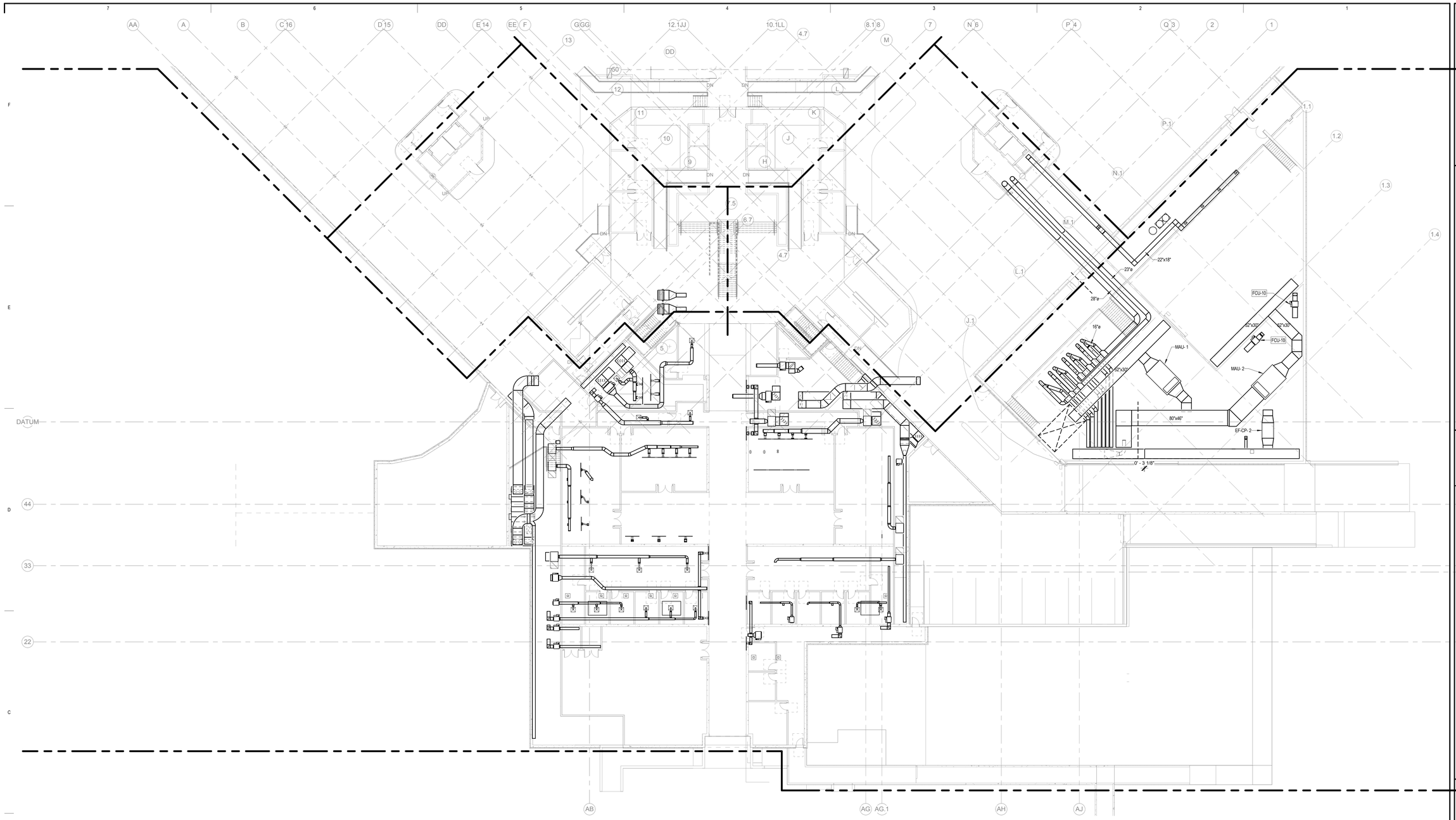
PKG. IDENTIFIER

OVERALL PLAN - LOWER LEVEL 1 - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH100

Schematic Design



1 HVAC - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

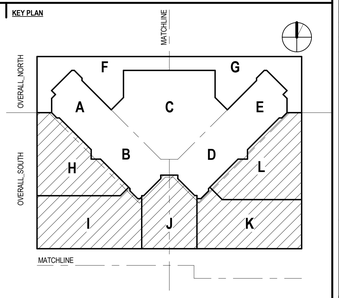
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LOWER LEVEL 1 - SOUTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH101

Schematic Design

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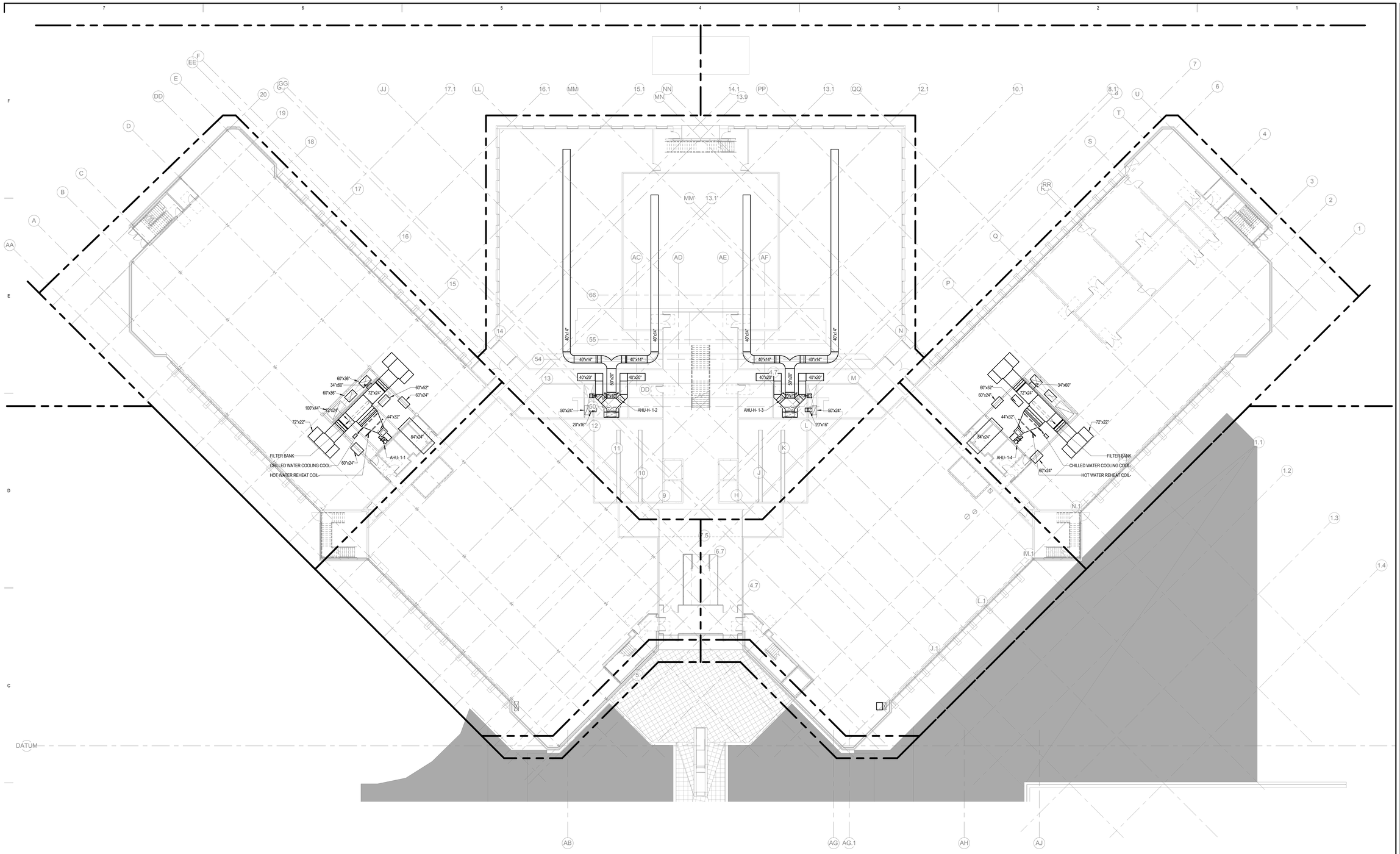


1 HVAC - HERSCHLER FIRST FLOOR - OVERALL NORTH
1/16" = 1'-0"

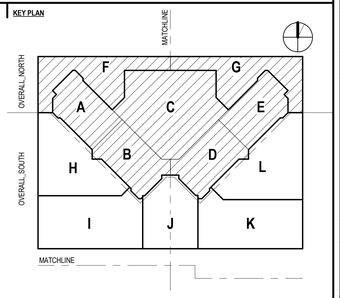
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 1 - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH110

Schematic Design

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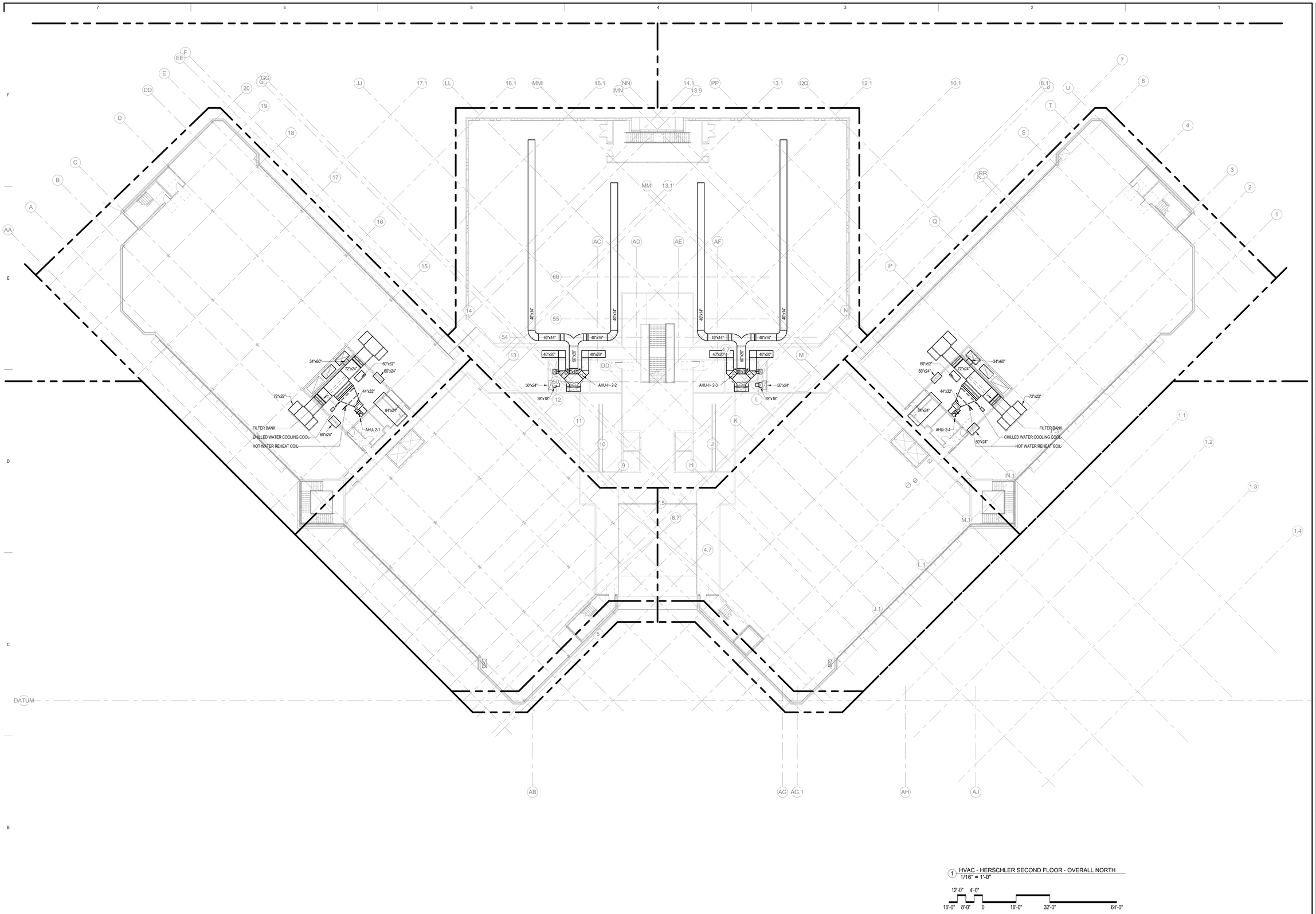


1 HVAC - HERSCHLER SECOND FLOOR - OVERALL NORTH
1/16" = 1'-0"

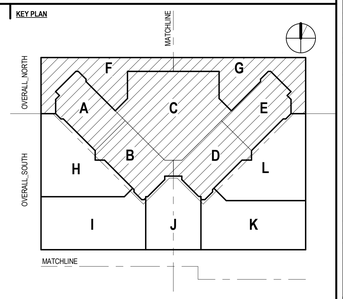
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 2 - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH120

Schematic Design

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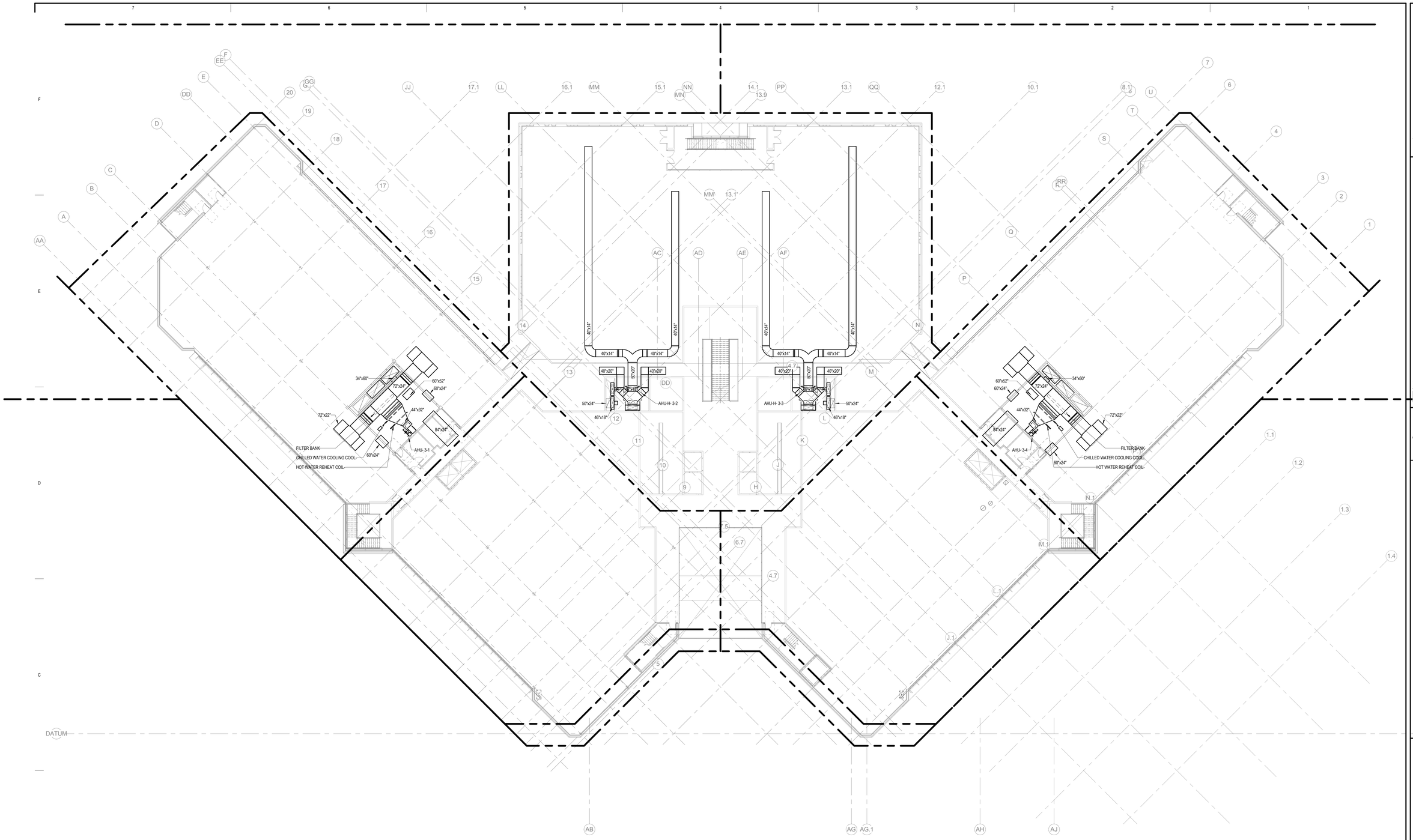


1 HVAC - HERSCHLER THIRD FLOOR - OVERALL NORTH
1/16" = 1'-0"

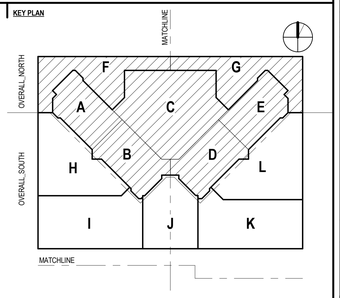
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 3 - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH130

Schematic Design

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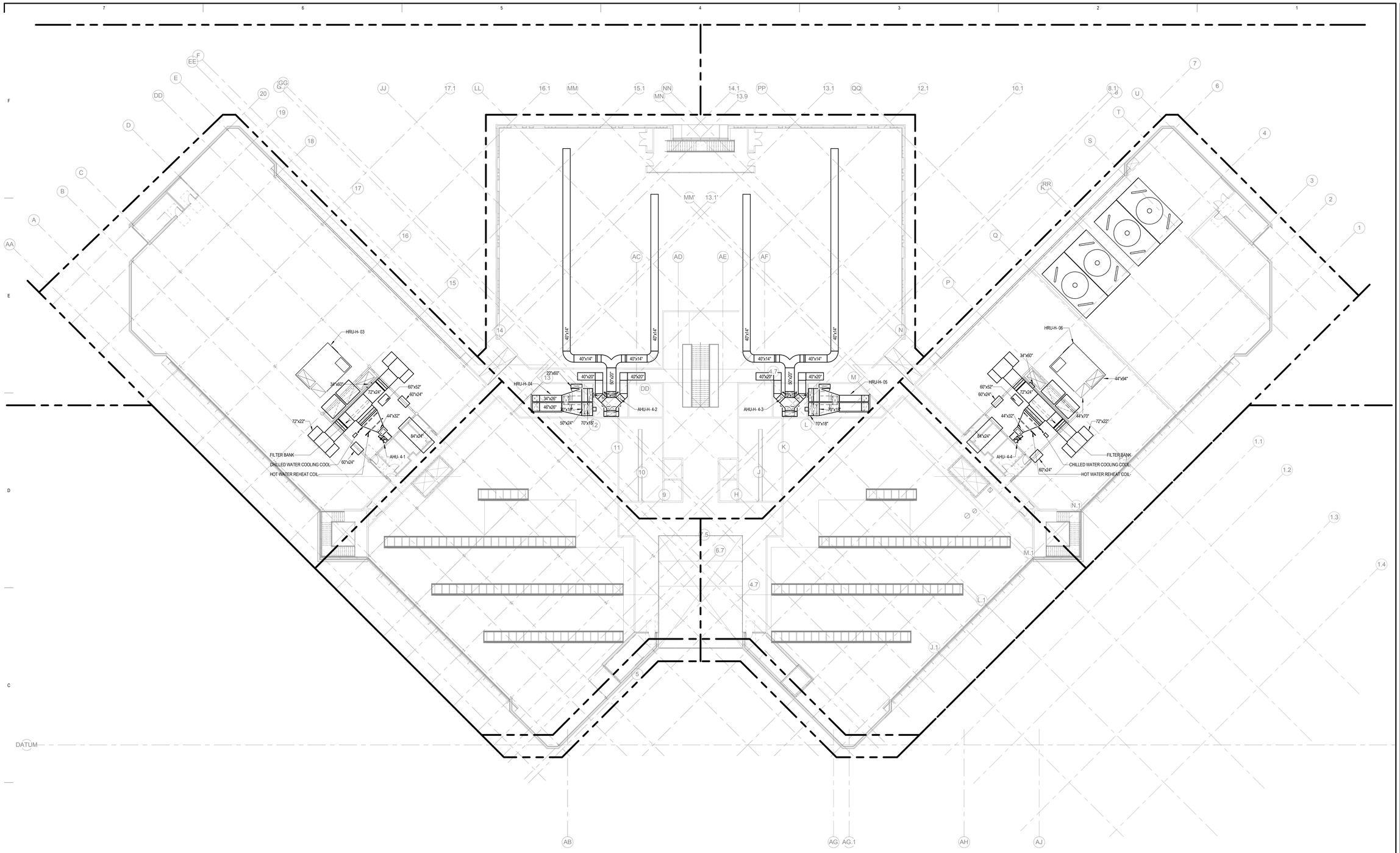


1 HVAC - HERSCHLER FOURTH FLOOR - OVERALL NORTH
1/16" = 1'-0"

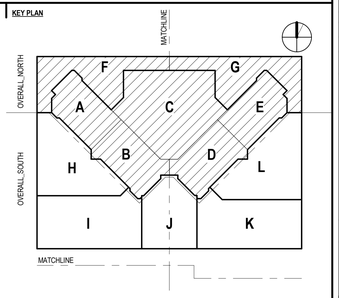
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 4 - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH140

Schematic Design

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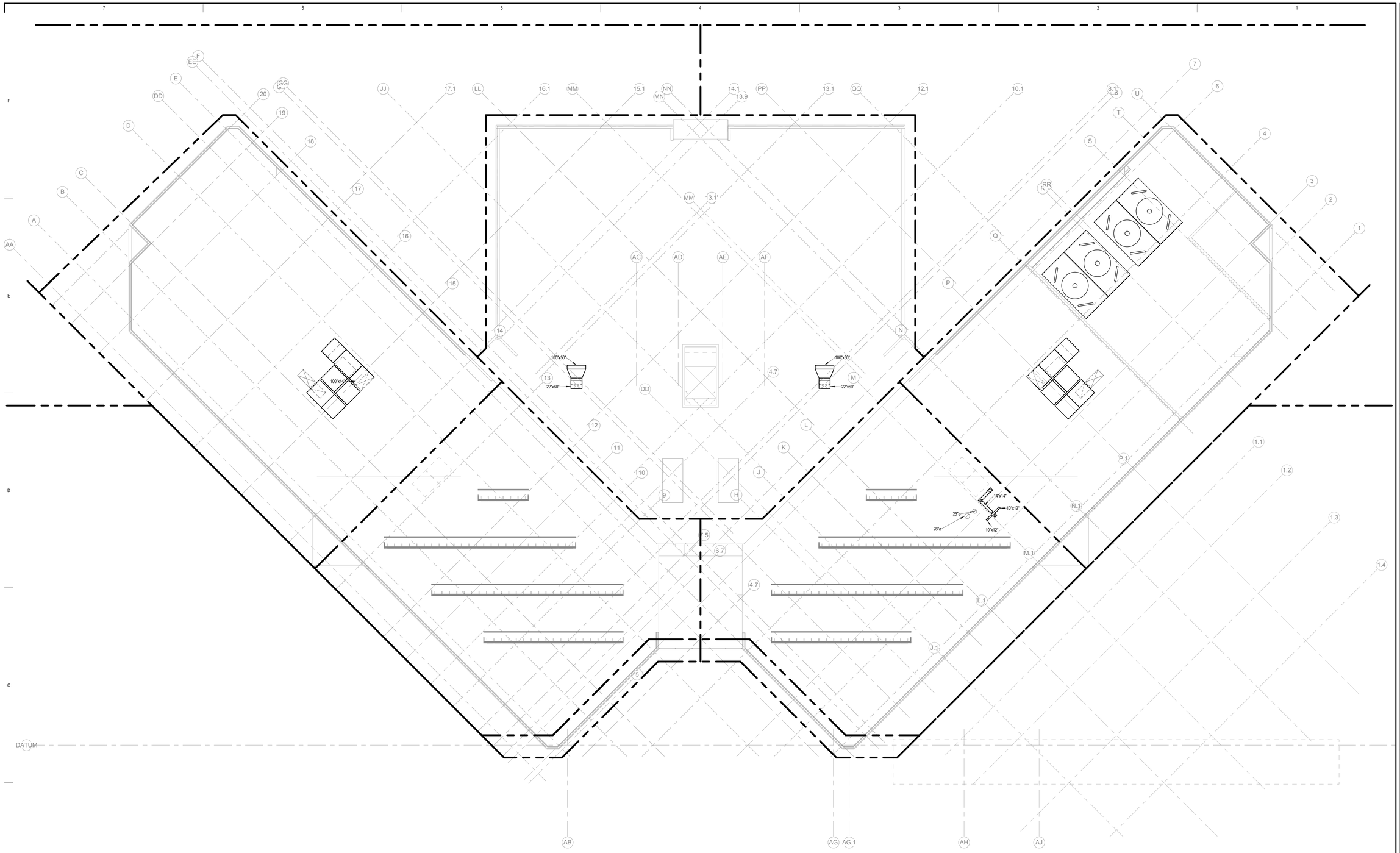
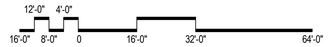


1 HVAC - HERSCHLER ROOF - OVERALL NORTH
1/16" = 1'-0"

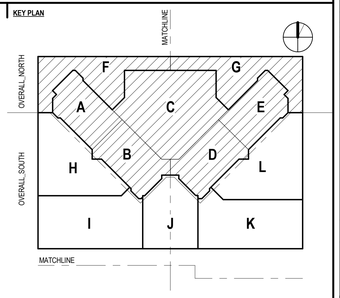


GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - ROOF - NORTH - DUCTWORK

SCALE 1/16" = 1'-0"

3MH150

Schematic Design

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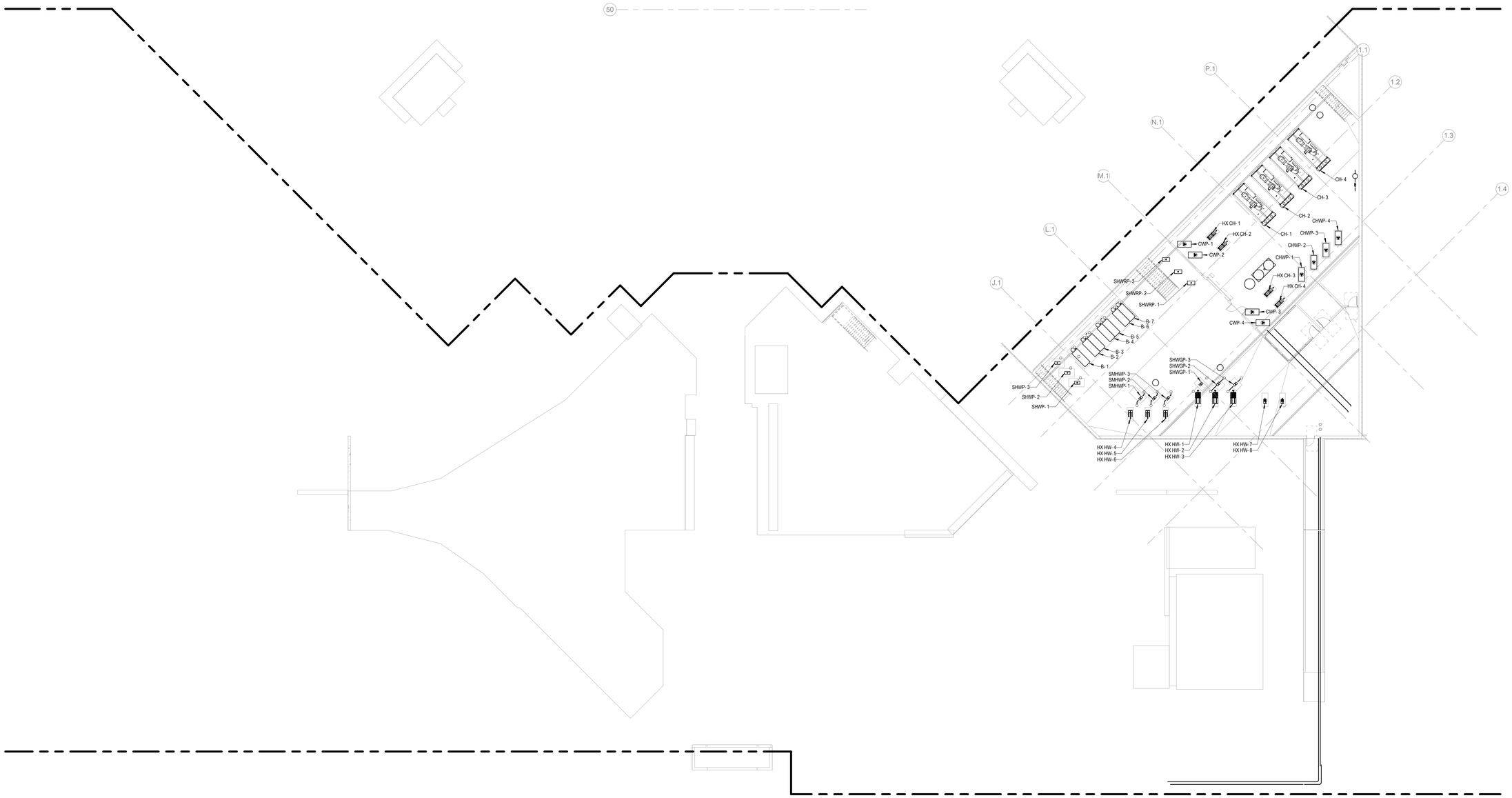


1 HVAC PIPING - CUP LOWER LEVEL 2 - OVERALL SOUTH
1/16" = 1'-0"

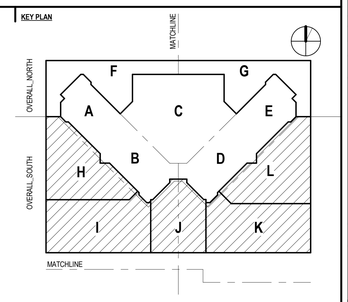
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LOWER LEVEL 2 - SOUTH - PIPING

SCALE 1/16" = 1'-0"

3MP10L

Schematic Design

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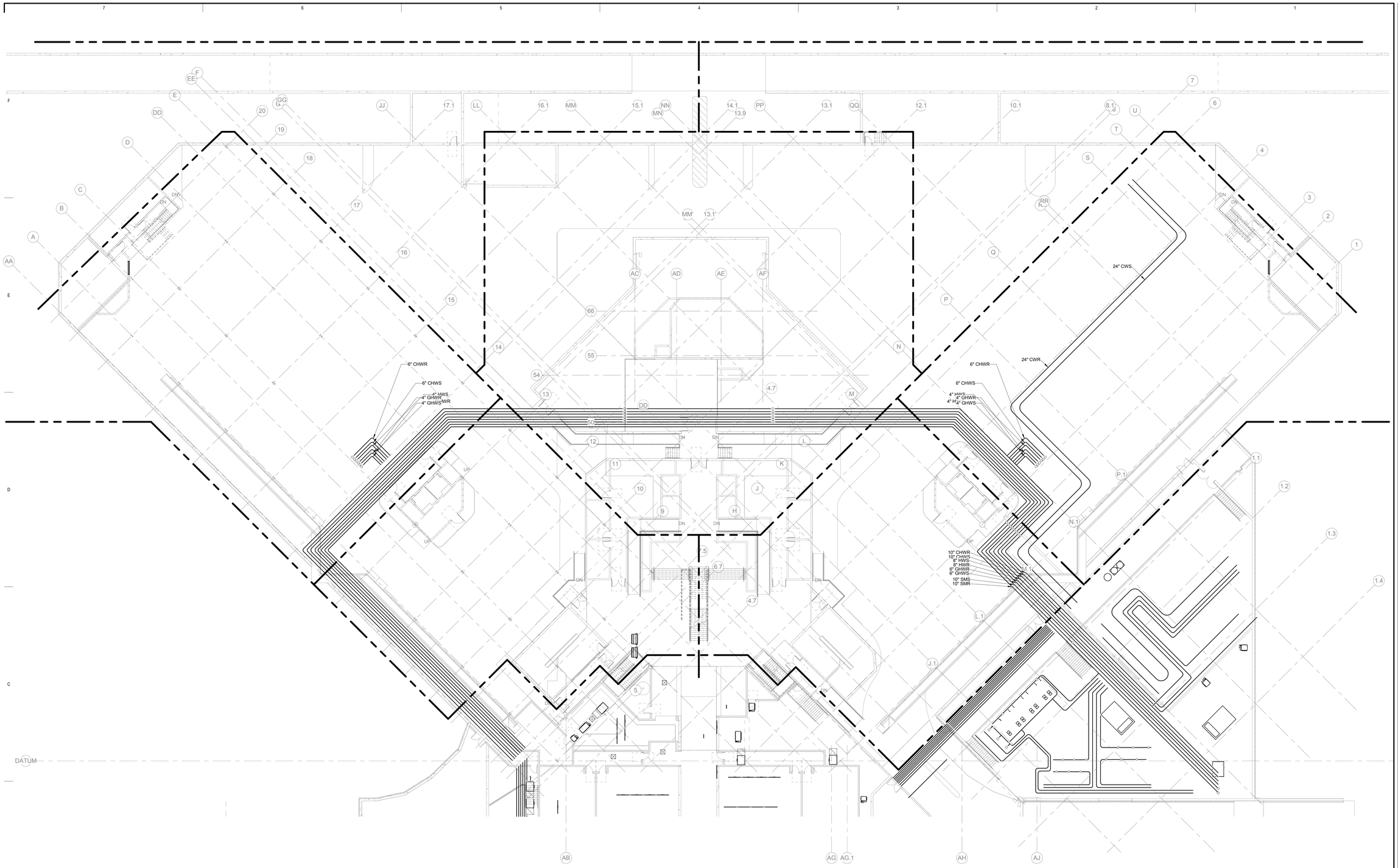


1 HVAC PIPING - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

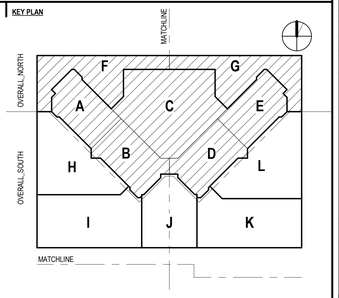
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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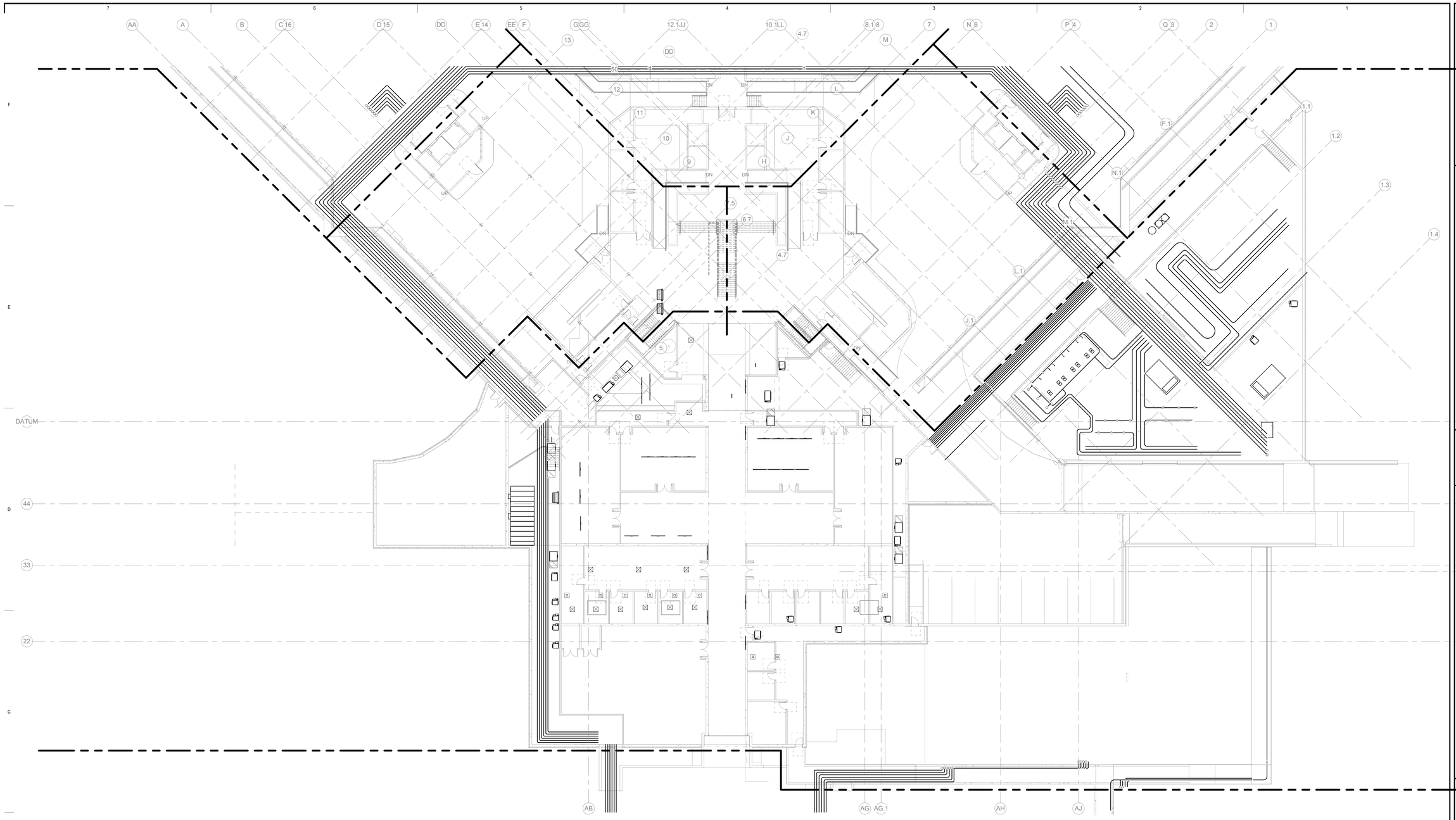
PKG. IDENTIFIER

OVERALL PLAN - LOWER LEVEL 1 - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP100

Schematic Design



1 HVAC PIPING - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

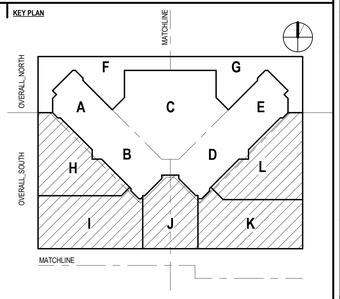
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LOWER LEVEL 1 - SOUTH - PIPING

SCALE 1/16" = 1'-0"

3MP101

Schematic Design

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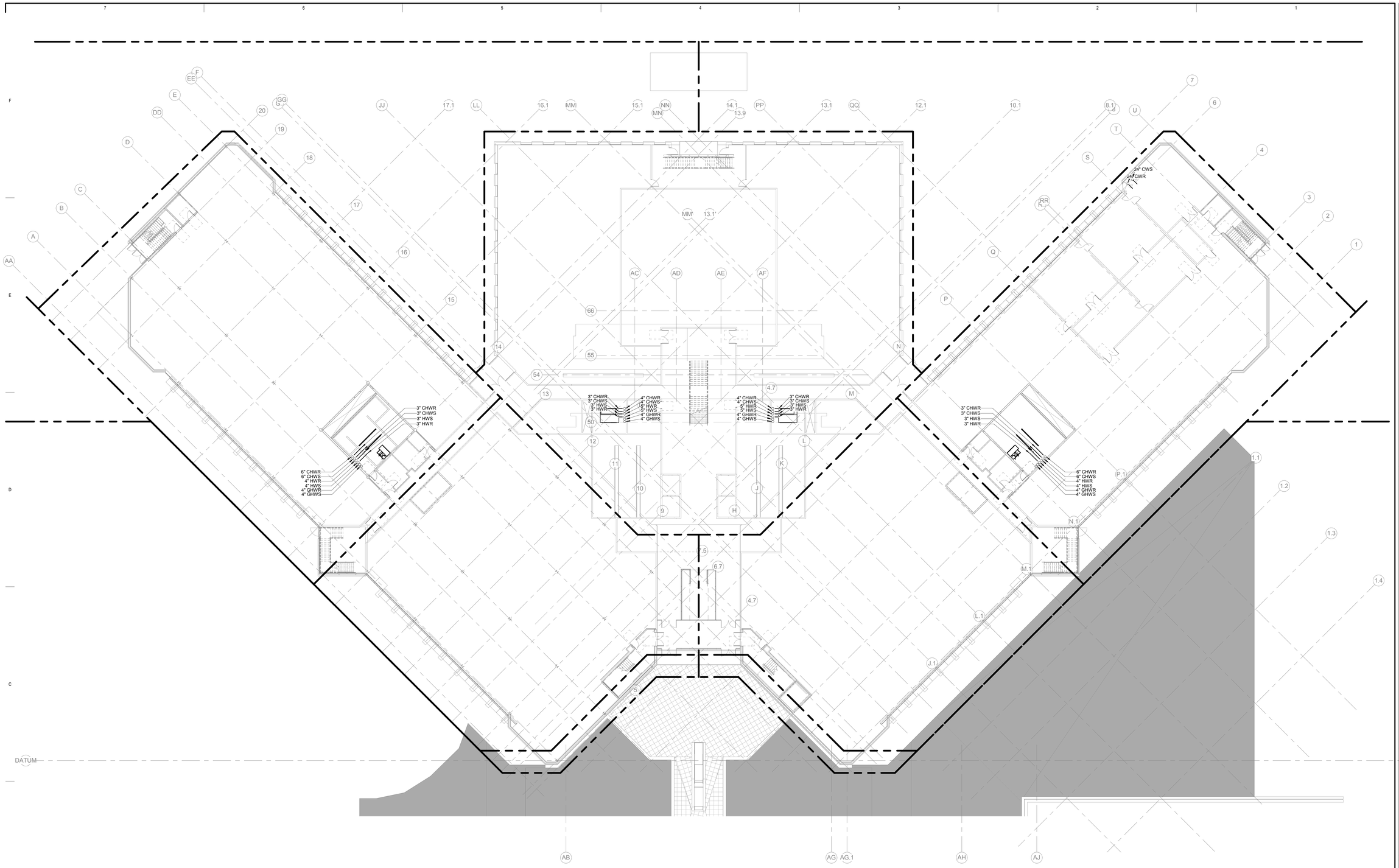


1 HVAC PIPING - HERSCHLER FIRST FLOOR - OVERALL NORTH
1/16" = 1'-0"

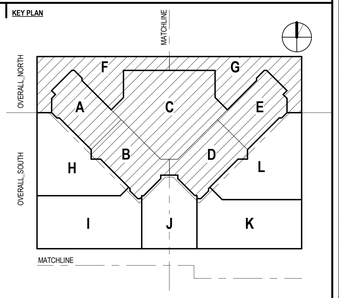
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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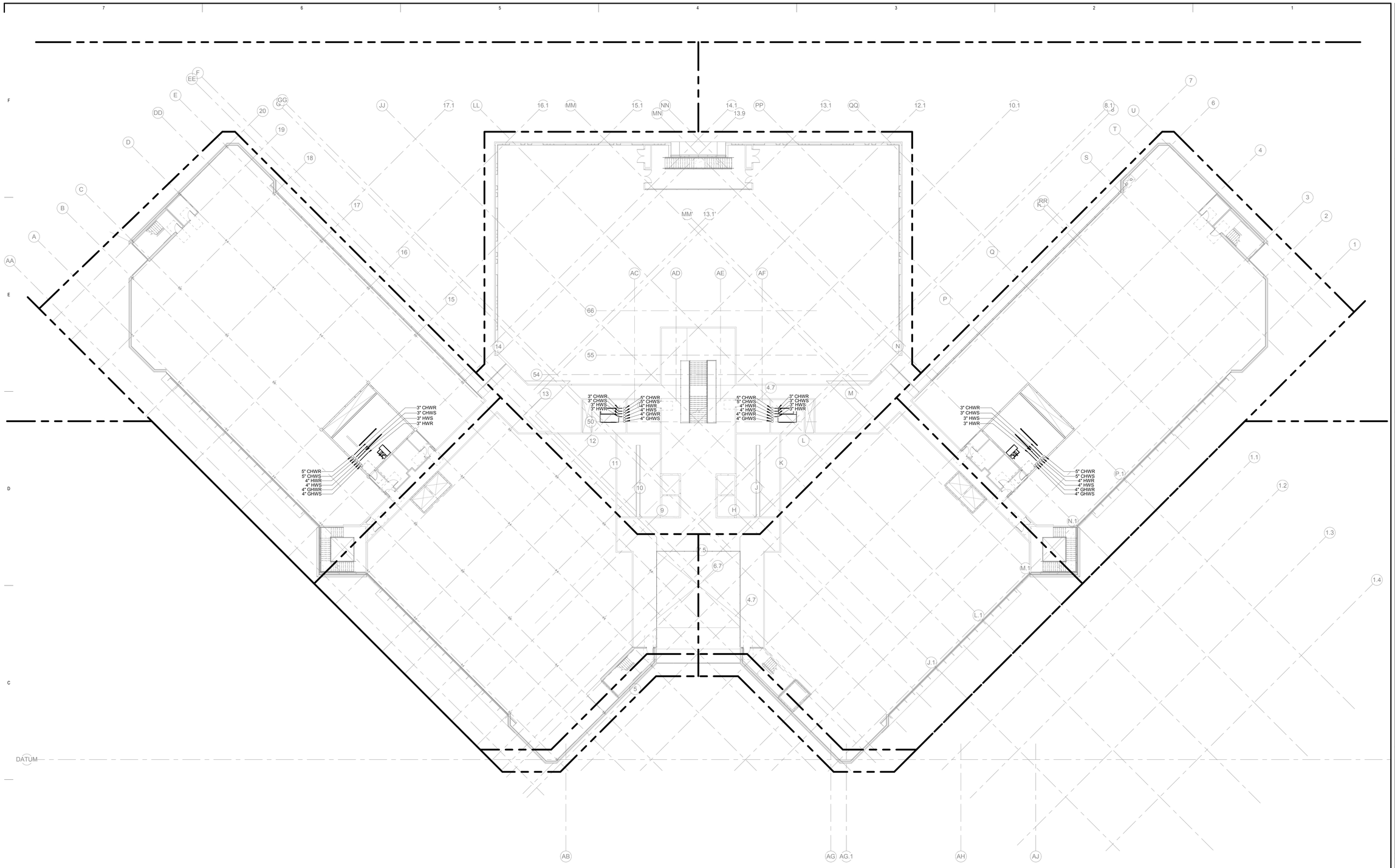
OVERALL PLAN - LEVEL 1 - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP110

Schematic Design



1 HVAC PIPING - HERSCHLER SECOND FLOOR - OVERALL NORTH
1/16" = 1'-0"

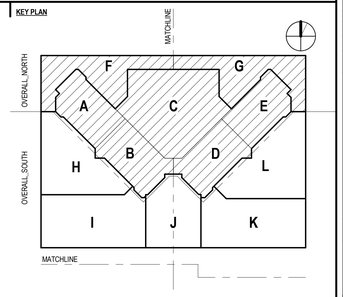
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 2 - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP120

Schematic Design

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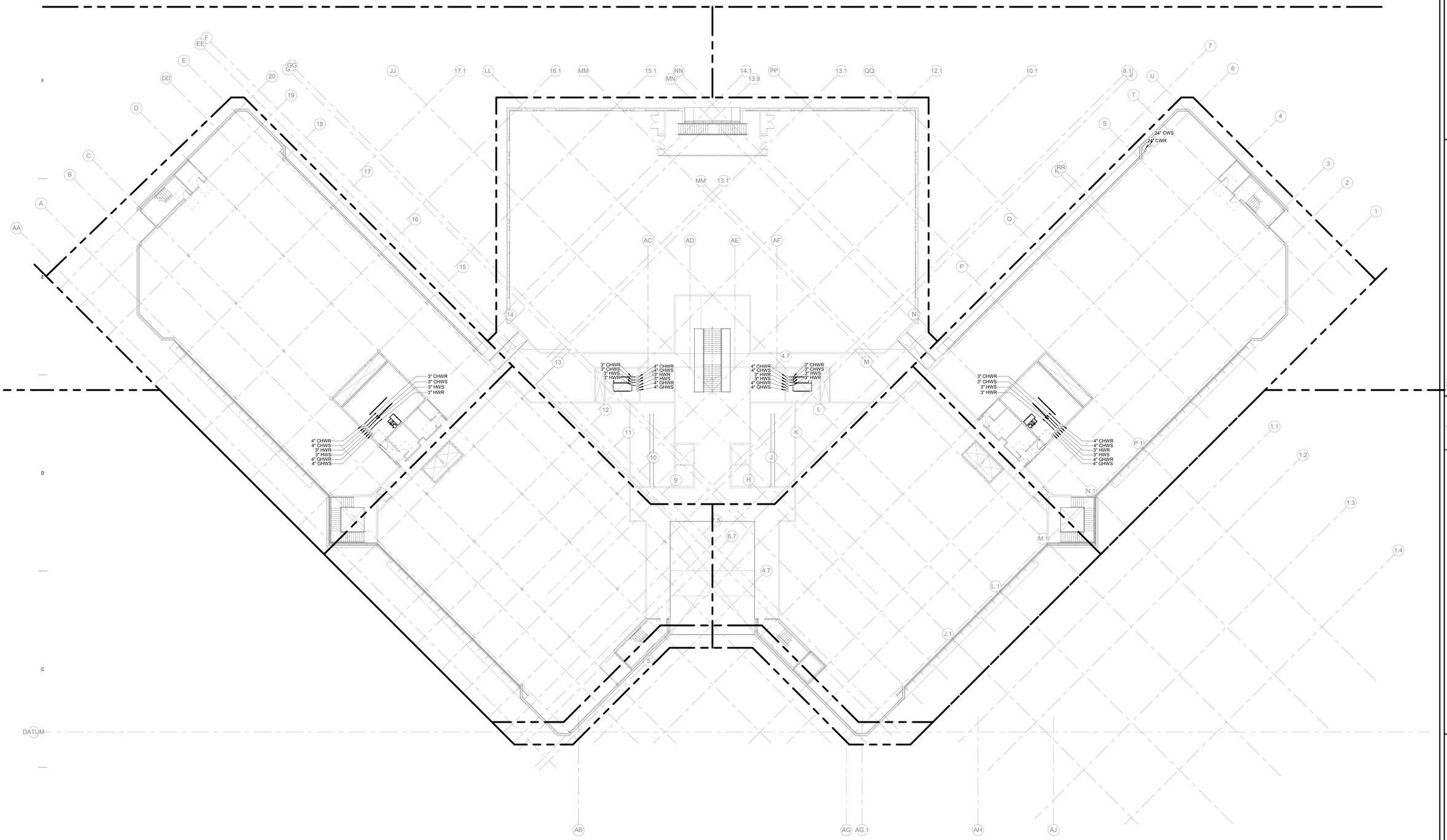
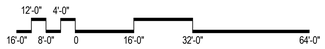


1 HVAC PIPING - HERSCHLER THIRD FLOOR - OVERALL NORTH
1/16" = 1'-0"



GENERAL NOTES

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GRAPHIC LEGEND

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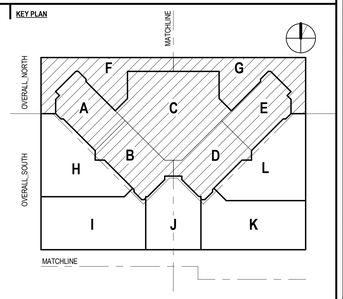

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OVERALL PLAN - LEVEL 3 - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP130

Schematic Design

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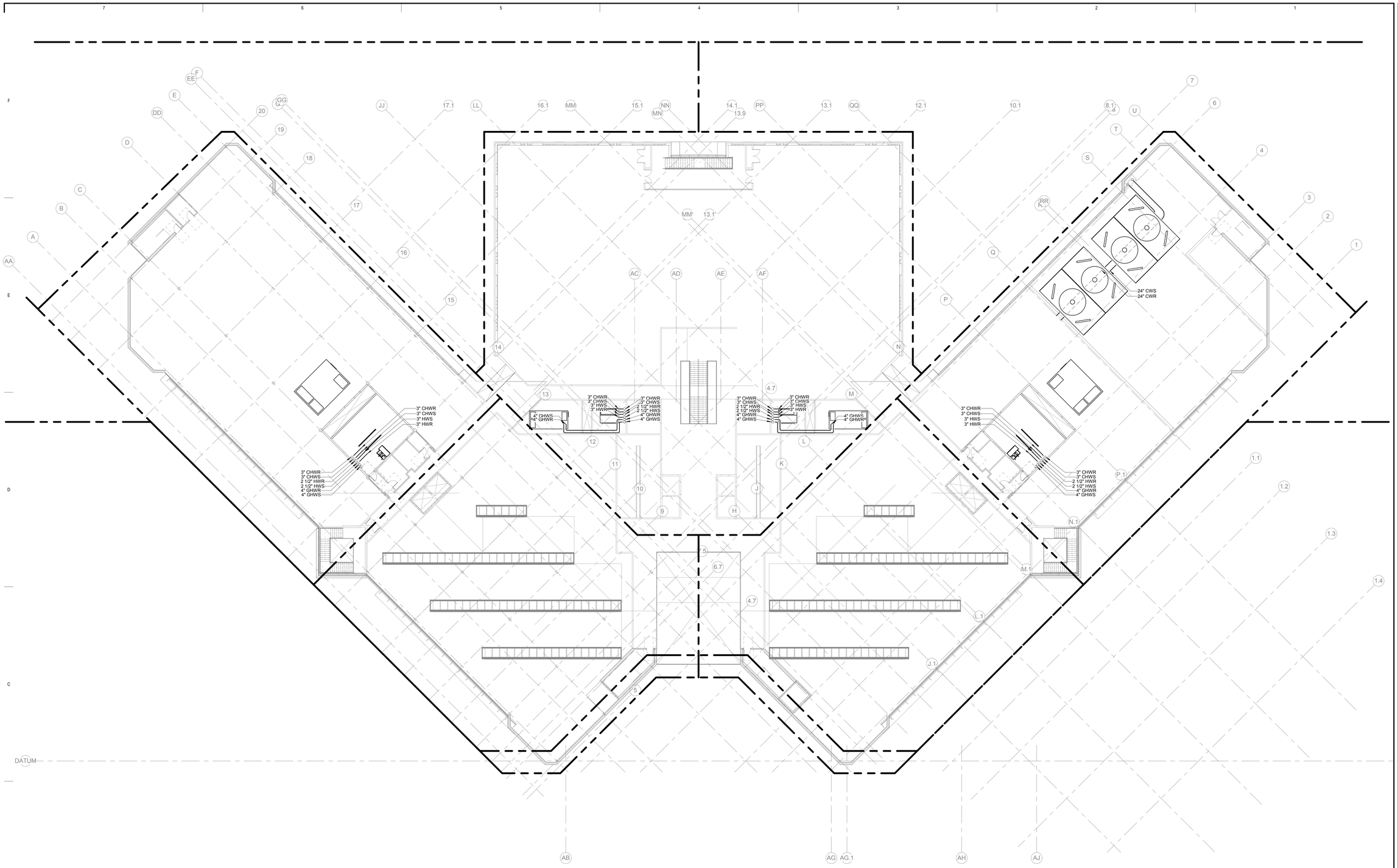

1 HVAC PIPING - HERSCHLER FOURTH FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

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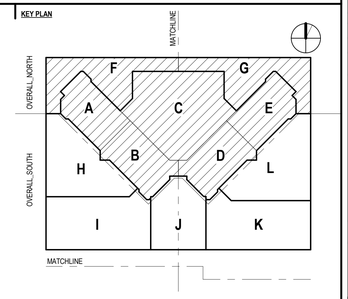

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OVERALL PLAN - LEVEL 4 - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP140

Schematic Design

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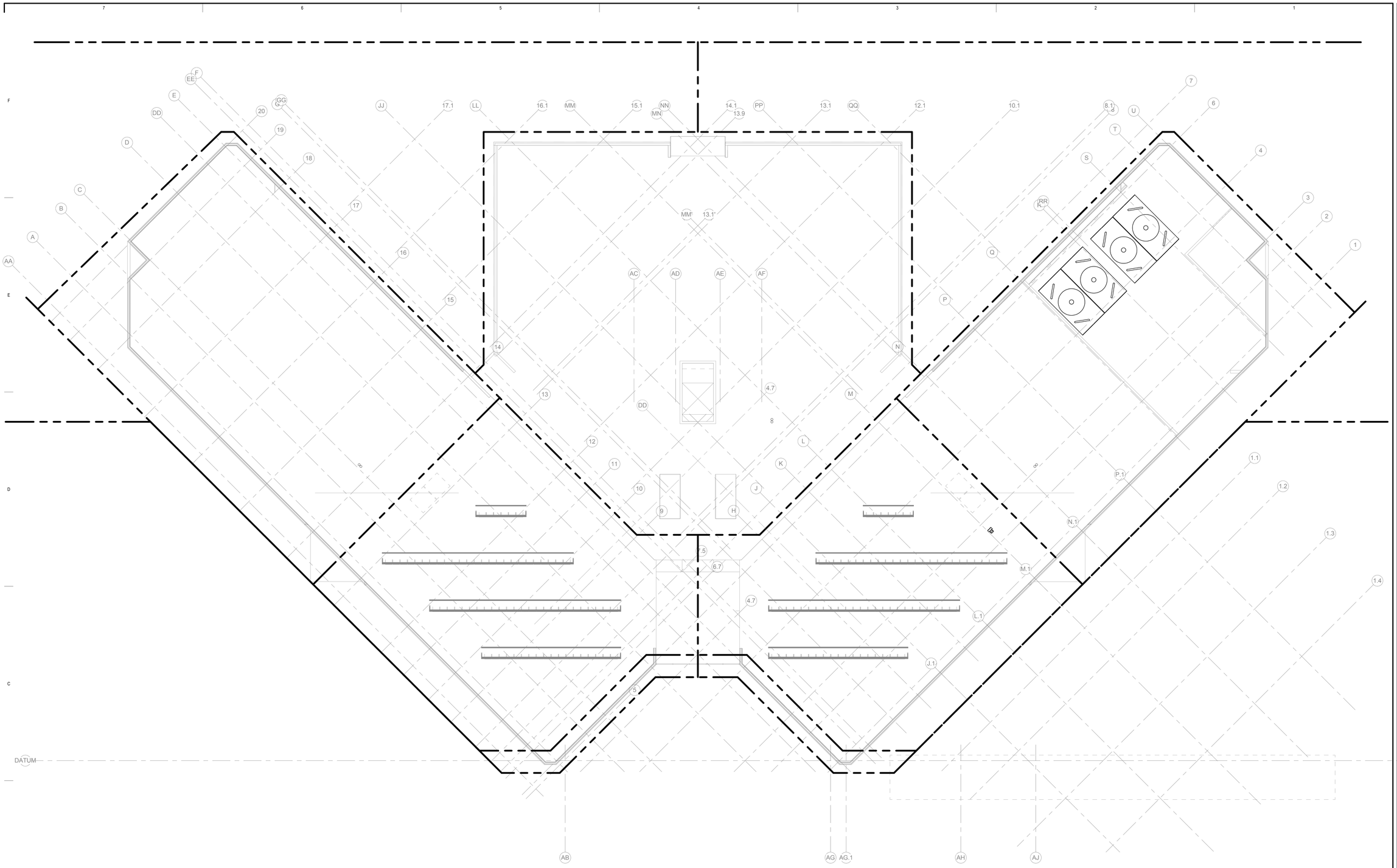

1 HVAC PIPING - HERSHLER ROOF - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

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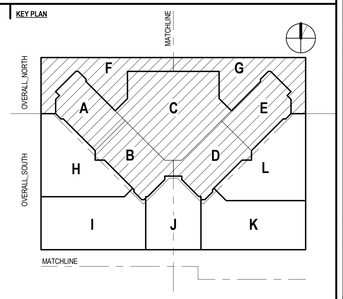
KEY PLAN



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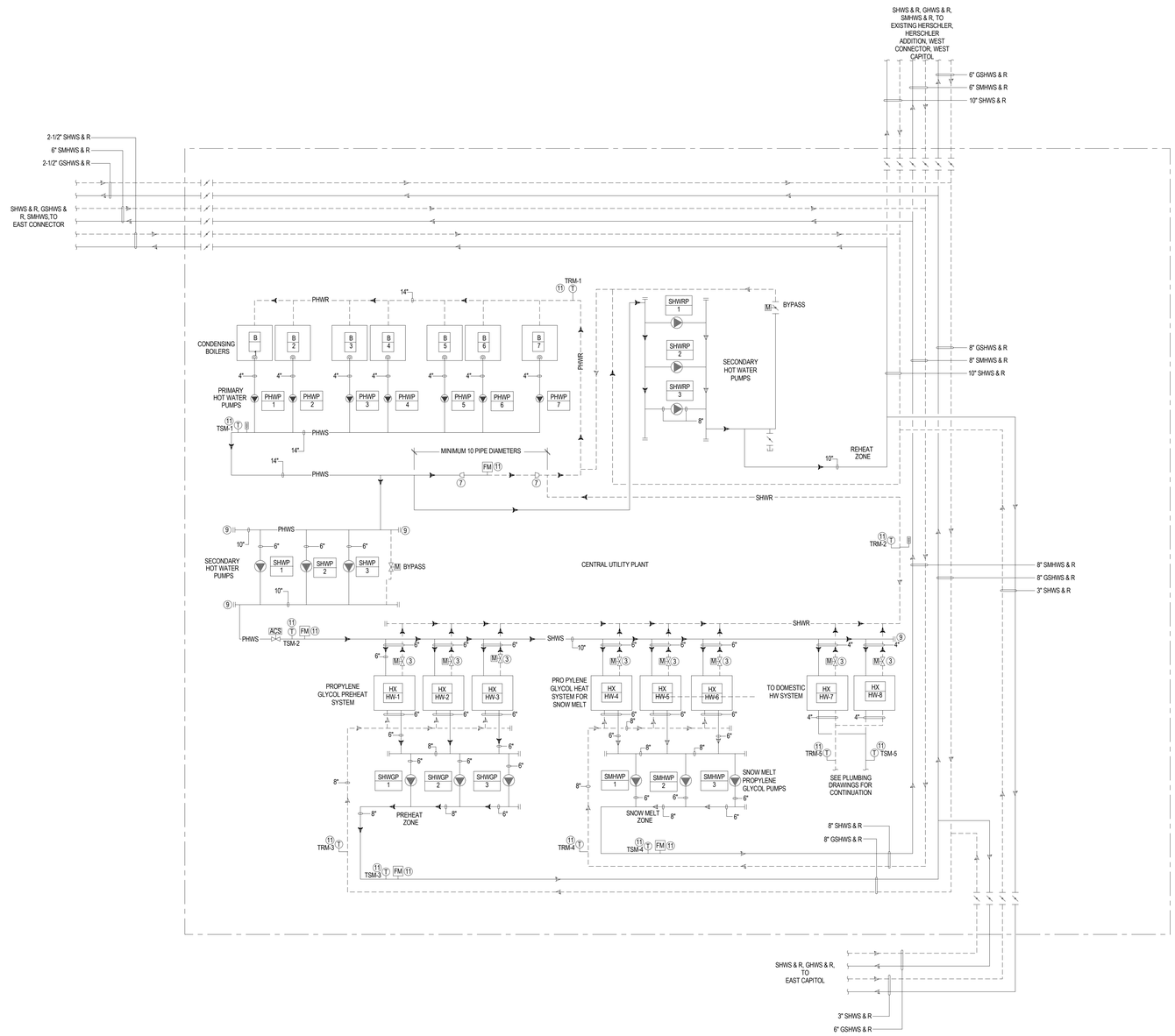
OVERALL PLAN - ROOF - NORTH - PIPING

SCALE 1/16" = 1'-0"

3MP150

Schematic Design



GENERAL NOTES

1. FOR ALL BOILER PIPING THAT IS NOT SHOWN ON CURRENT DRAWING PROVIDE PIPING AND PIPING CONNECTIONS ACCORDING TO BOILER PIPING DIAGRAM AND EQUIPMENT MANUFACTURER REQUIREMENTS.
2. FOR MORE INFORMATION FOR GAS AND FUEL OIL SYSTEMS SEE DETAILS.
3. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS AT ALL LOW POINTS OF PPING SYSTEM FOR DRAINS.
4. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS AT ALL HIGH POINTS IN PIPING SYSTEM FOR AIR VENTS. DRAINS SHALL BE MINIMUM 3/4" MINIMUM. VENTS SHALL BE 1/2" MINIMUM.
5. ALL VALVES, SPECIALTIES, ETC. SHOWN ON THIS DIAGRAM SHALL BE "LINE SIZE" UNLESS NOTED OTHERWISE. IF THE SIZE OF THE PIPING NEEDS TO BE REDUCED OR INCREASED TO FACILITATE A CONNECTION TO THE EQUIPMENT VALVE OR SPECIALTY. THE CHANGE IN SIZE SHALL OCCUR AS CLOSE TO THE EQUIPMENT VALVE OR SPECIALTY AS IS PRACTICAL.
6. SEE HOT WATER SYSTEM PIPING FOR DETAILED INSTRUMENTATION, VALVE AND PIPING ARRANGEMENT AT EQUIPMENT. TYPICAL.
7. THE SIZING OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 1/2" UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES

KEY NOTES: (SYMBOLS' 1, 2 ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 LUG-TYPE BUTTERFLY VALVE. VALVE SHALL BE INSTALLED SO THAT THE VALVE SHAFT IS PARALLEL TO THE FLUID FLOW IN THE MAIN. THE VALVE SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE MANUAL OPERATOR. TYPICAL.

2 FOR MINIMUM SYSTEM FLOW REQUIREMENTS, 3-WAY VALVES ARE TO BE PROVIDED IN THESE AREAS. REFER TO EQUIPMENT SCHEDULES FOR 3-WAY VALVES.

3 MOTOR-OPERATED BUTTERFLY VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPE BUTTERFLY VALVE AND SHALL BE INSTALLED SO THAT THE VALVE SHAFT IS PARALLEL TO THE FLUID FLOW IN THE MAIN. THE VALVE SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

4 DIFFERENTIAL PRESSURE TRANSMITTER. SEE FLOOR PLAN FOR ACTUAL QUANTITIES AND LOCATIONS.

5 AERCO CONTROL SYSTEM (ACS) SENSOR INSTALLED IN HEADER DOWNSTREAM OF SECONDARY PUMPS. THE BOILER MANUFACTURER SHALL PROVIDE A COMMUNICATIONS INTERFACE BETWEEN THE BOILER CONTROL SYSTEM AND THE EMS SYSTEM THAT IS COMPATIBLE WITH THE EMS SYSTEM. ALL DETAILS OF THIS INTERFACE, INCLUDING WIRING AND FIELD-MOUNTED SENSORS, SHALL BE COORDINATED BETWEEN THE BOILER MANUFACTURER AND THE EMS CONTRACTOR. ALL MONITORING AND STATUS POINTS FROM THE BOILER CONTROL SYSTEM SHALL BE AVAILABLE AT THE EMS WORKSTATION. ALL TROUBLES AND ALARMS GENERATED BY THE BOILER CONTROL PANEL SHALL BE ANNUNCIATED AT THE EMS WORKSTATION. THE EMS CONTRACTOR SHALL ALSO PROVIDE AND TERMINATE ALL FIELD WIRING THAT IS RUN BETWEEN THE COMPONENTS OF THE BOILER CONTROL SYSTEM.

6 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

7 FLAT TOP REDUCER

8 THE SECTION OF PIPE BETWEEN THE TAKE OFFS SHALL BE STRAIGHT PIPE WITHOUT ANY FITTINGS.

9 BLIND FLANGE.

10 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

11 FLOW METER AND / OR TEMPERATURE SENSOR AND WELL PROVIDED AS PART OF A 'BTU' METER

GRAPHIC LEGEND

PARTIAL ABBREVIATION LIST

AHU	AIR HANDLER UNIT
CHI	CHILLER
FCU	FAN COIL UNIT
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HRU	HEAT RECOVERY UNIT
N+1	STAND-BY UNIT
PHWP	PRIMARY HOT WATER PUMP
PHWR	PRIMARY HOT WATER RETURN
PHWS	PRIMARY HOT WATER SUPPLY
SMHWP	SNOW MELT HOT WATER PUMP
SHWGP	SECONDARY HOT WATER GYLCOL PUMP
SHWRP	SECONDARY HOT WATER REHEAT PUMP
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- SECONDARY HOT WATER RETURN
- SECONDARY HOT WATER SUPPLY
- GLYCOL SECONDARY HOT WATER RETURNM
- GLYCOL SECONDARY HOT WATER SUPPLY
- SNOW MELT SECONDARY HOT WATER RETURN
- SNOW MELT SECONDARY HOT WATER SUPPLY
- COMPRESSED AIR
- PRIMARY HOT WATER SUPPLY
- PRIMARY HOT WATER RETURN

PARTIAL ABBREVIATION LIST

CHWS & R	CHILLED WATER SUPPLY AND RETURN
SHWS & R	SECONDARY HOT WATER SUPPLY AND RETURN
GSHWS & R	GLYCOL SECONDARY HOT WATER SUPPLY AND RETURN
SMSHWS & R	SNOW MELT SECONDARY HOT WATER SUPPLY AND RETURN
PHWS & R	PRIMARY HOT WATER SUPPLY AND RETURN

KEY PLAN

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State of Wyoming

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Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

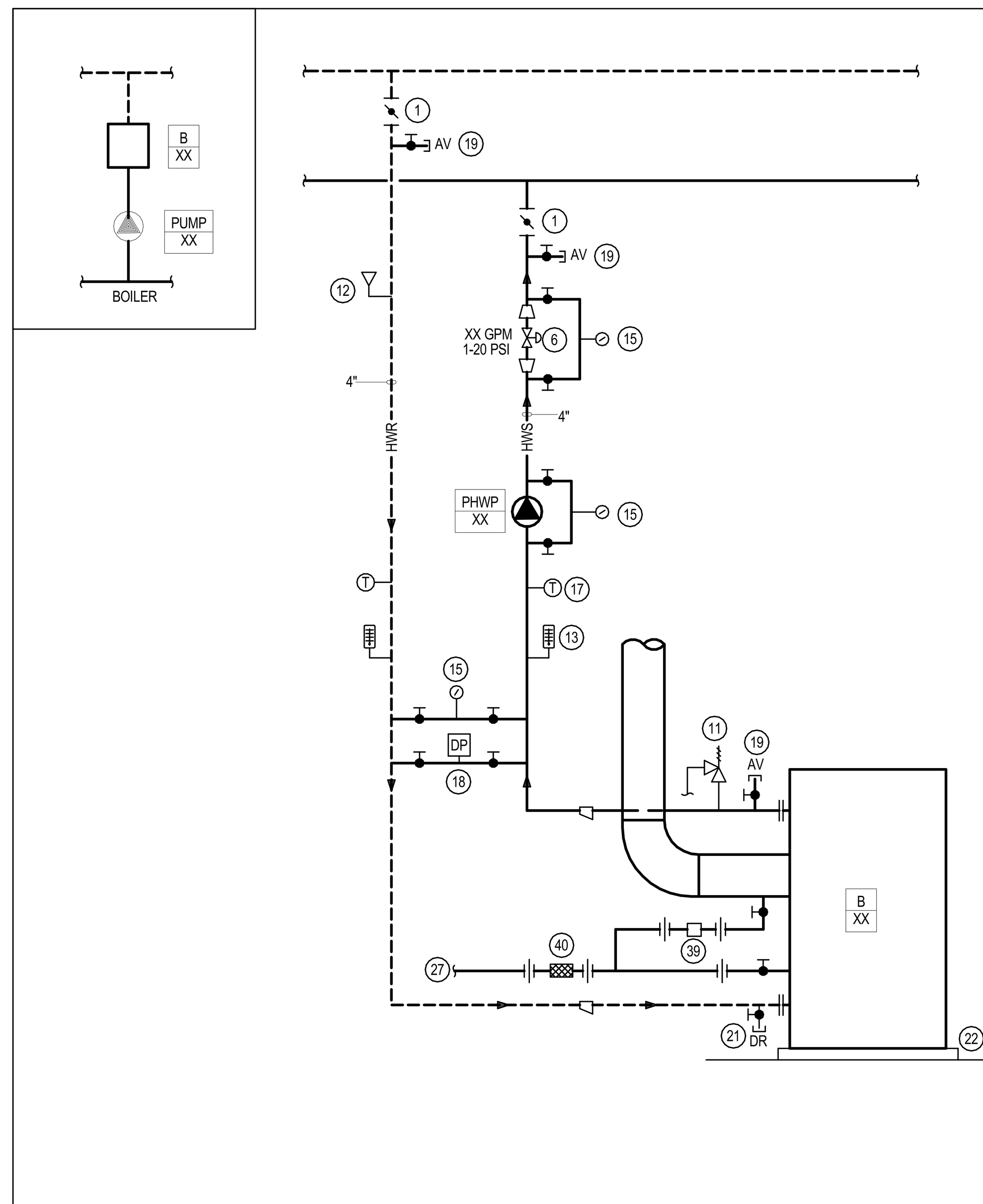
PROJECT NUMBER	
ORIGINAL ISSUE	07/10/14 -
PKG. IDENTIFIER	

MECHANICAL - HOT WATER SYSTEM FLOW DIAGRAM - CUP

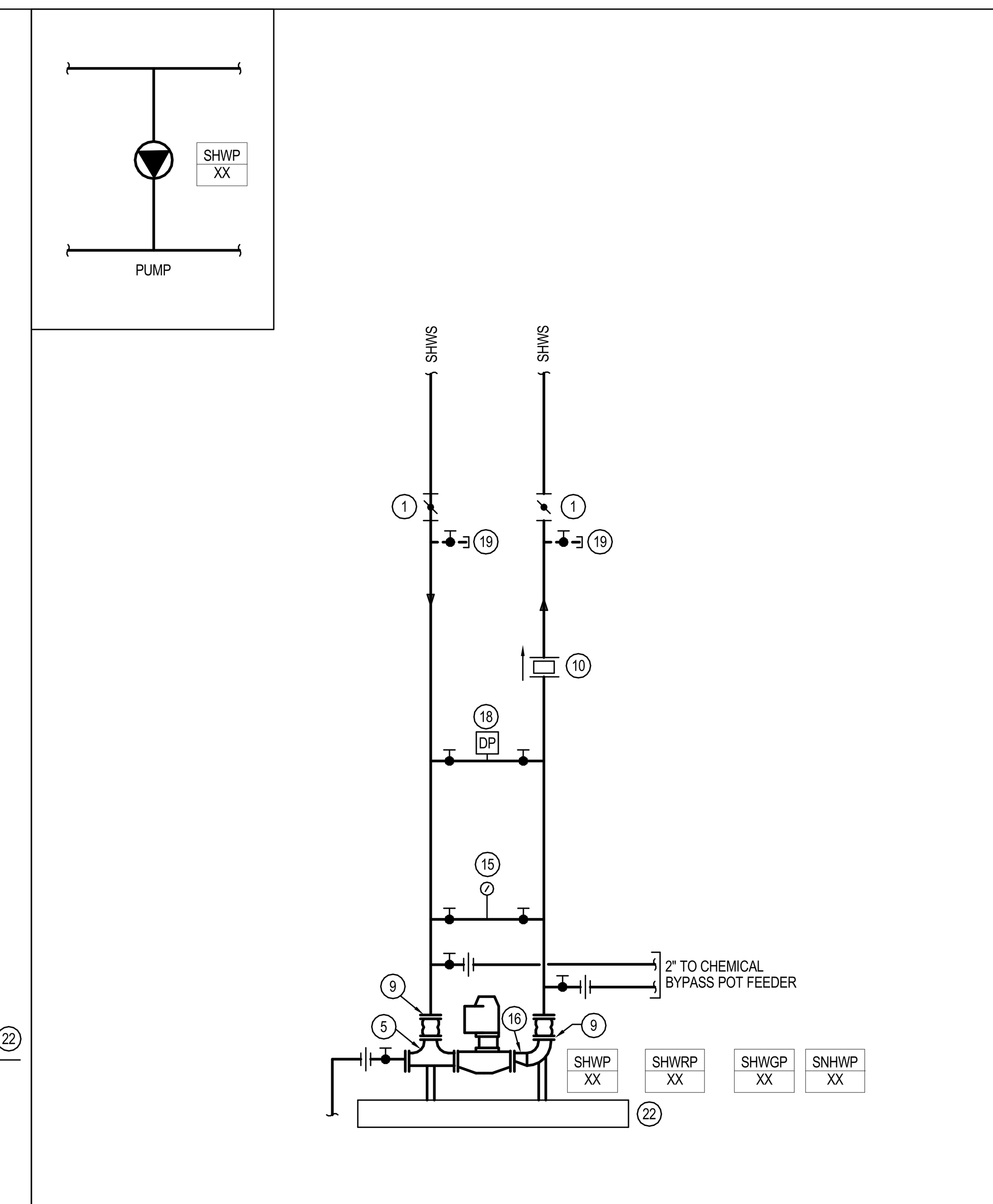
SCALE 12" = 1'-0"

3MX601

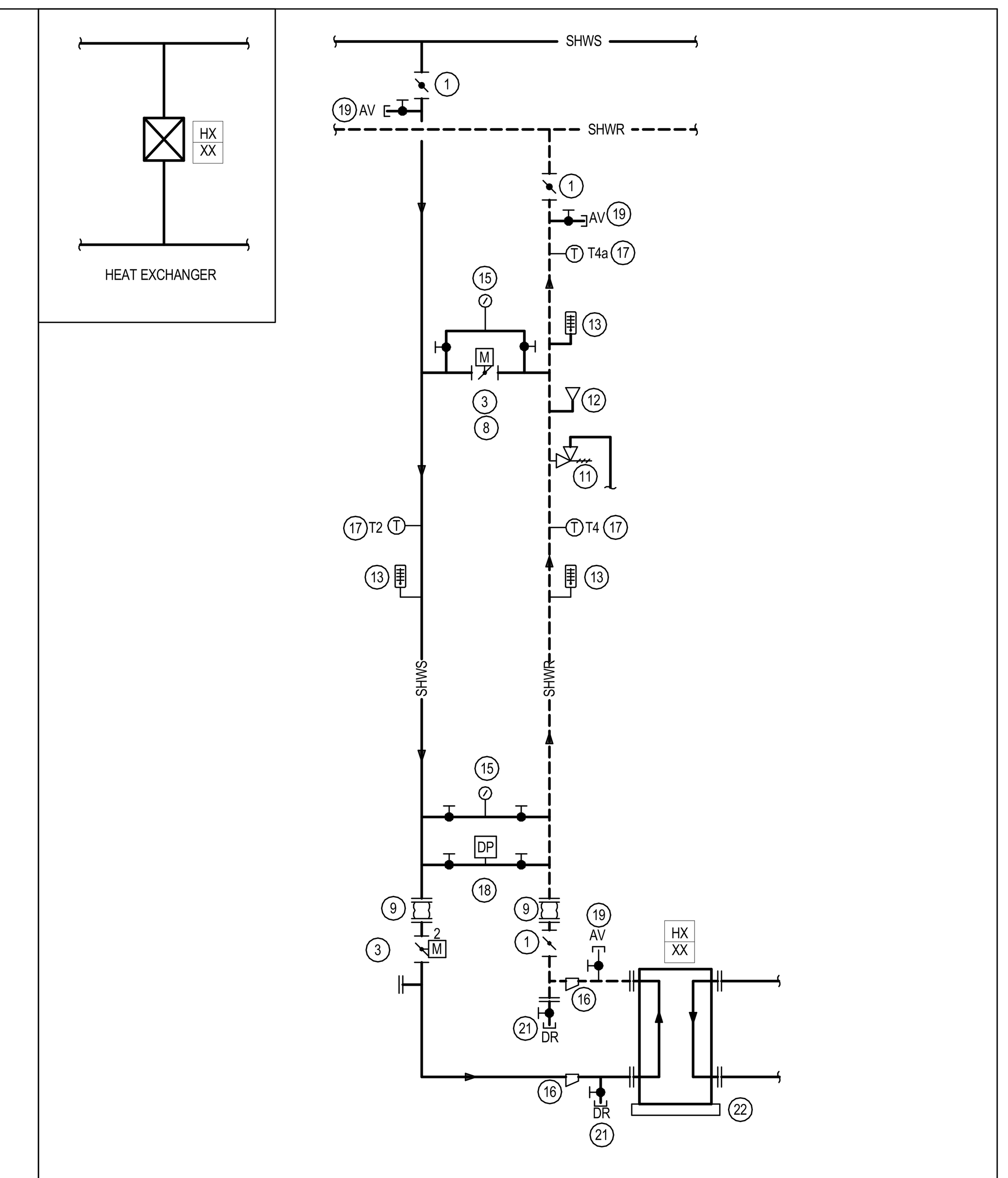
Schematic Design



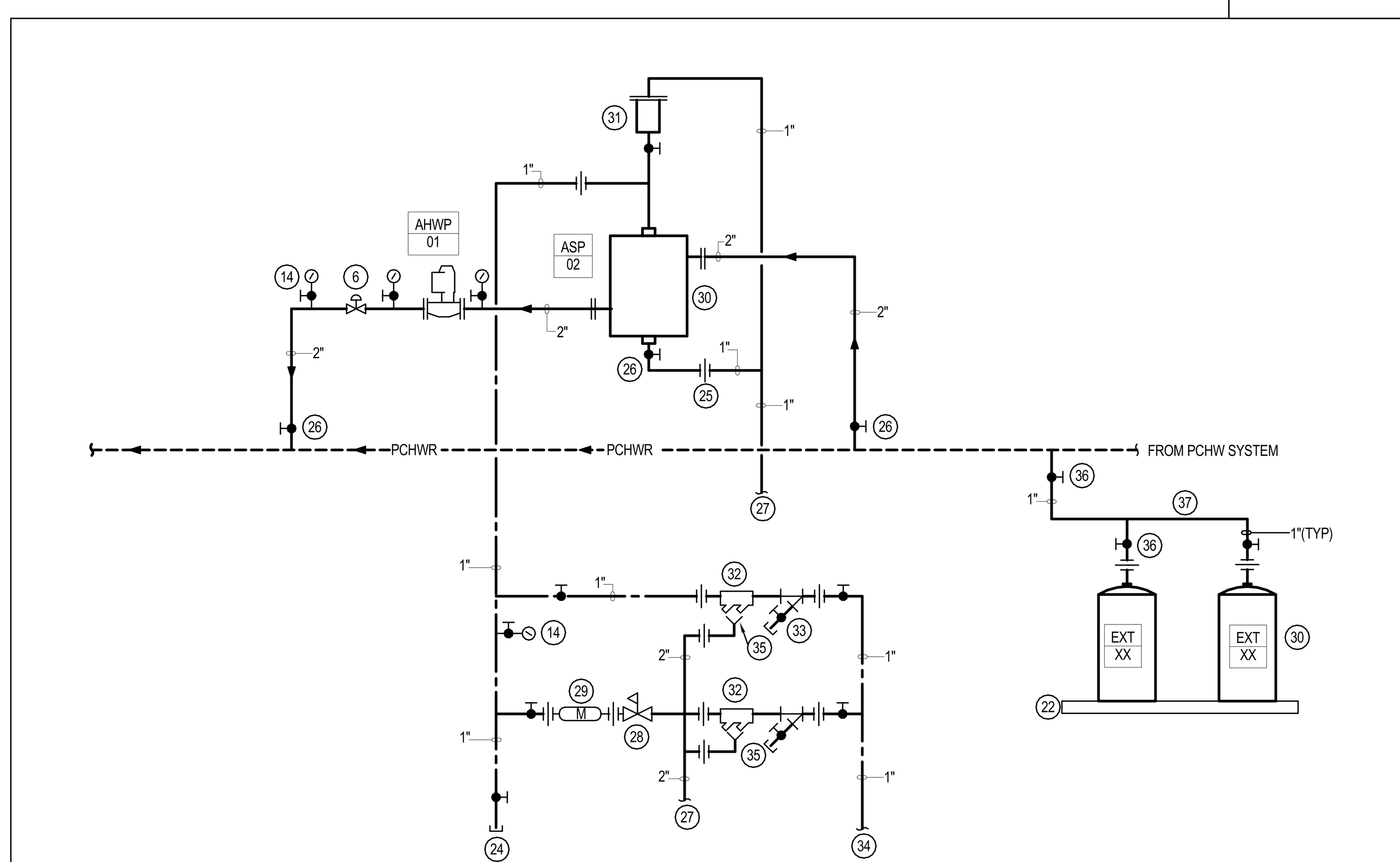
1 BOILER PIPING DETAIL
NOT TO SCALE



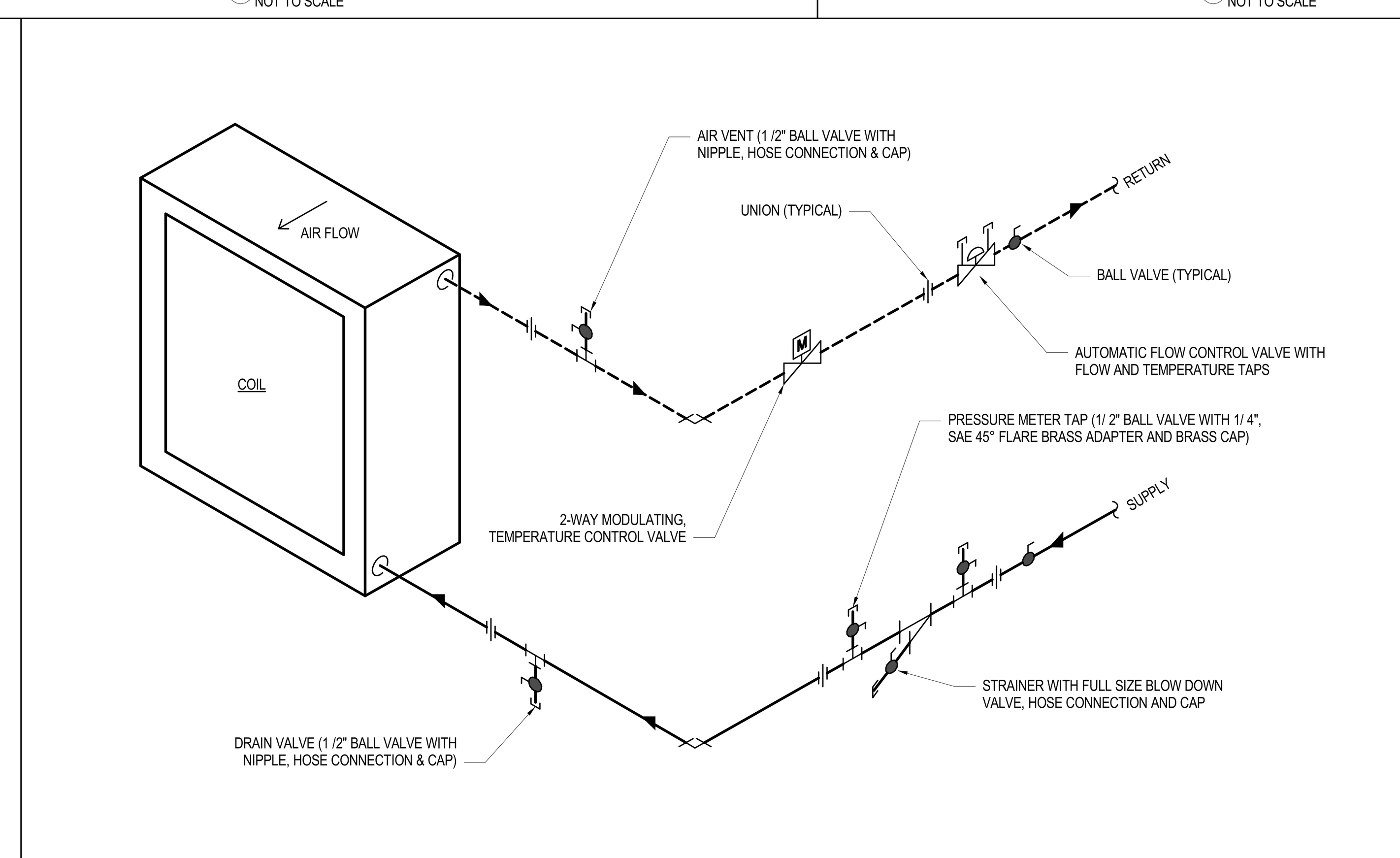
2 PUMP PIPING DETAIL
NOT TO SCALE



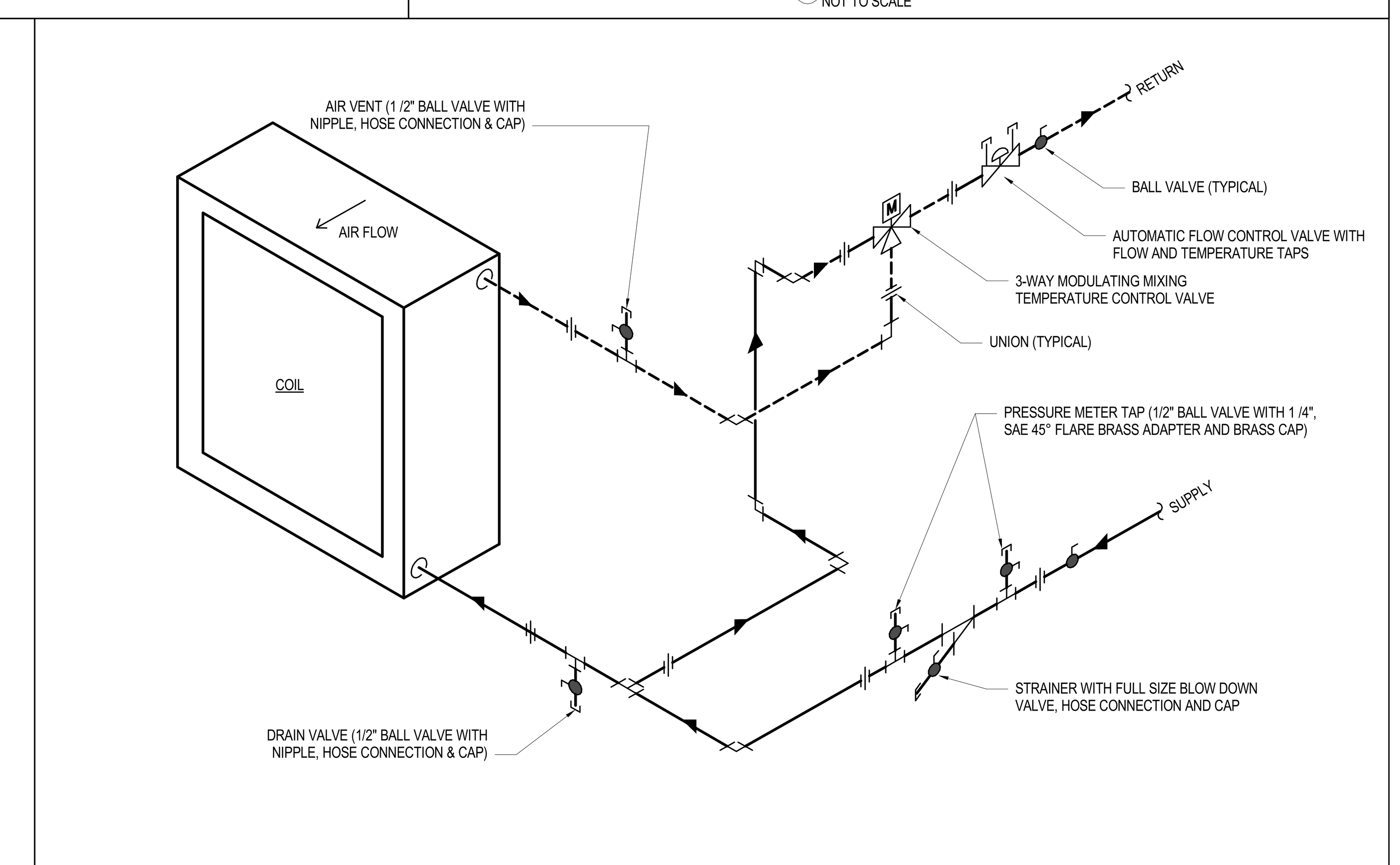
3 HEAT EXCHANGER PIPING DETAIL
NOT TO SCALE



4 AIR SEPARATOR, COLD WATER MAKE-UP AND EXPANSION TANK PIPING DETAIL
NOT TO SCALE



5 FAN COIL, AHU, HRU AND DOAS UNIT WITH 3-WAY CONTROL VALVE PIPING DETAIL
NOT TO SCALE



6 FAN COIL, AHU AND HRU UNIT WITH 3-WAY CONTROL VALVE PIPING DETAIL
NOT TO SCALE

GENERAL NOTES

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS (DRAINS) AT ALL LOW POINTS OF THE PIPING SYSTEM.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS (AIR VENTS) AT ALL HIGH POINTS OF THE PIPING SYSTEM.
3. ALL MANUAL VALVE OPERATORS HIGHER THAN 7'-0" AFF SHALL BE PROVIDED WITH CHAIN WHEELS AND CHAINS.
4. ALL REDUCERS OR INCREASERS INSTALLED IN HORIZONTAL PIPING SHALL BE "FLAT TOP", ECCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
5. ALL REDUCERS OR INCREASERS INSTALLED IN VERTICAL PIPING SHALL BE CONCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
6. A WELD NECK FLANGES SHALL BE USED AT ALL FITTINGS. SLIP ON FLANGES MAY BE USED FOR STRAIGHT PIPE.
7. PROVIDE UNIONS OR FLANGE SETS (AS APPROPRIATE) TO FACILITATE THE EASY INSTALLATION AND REMOVAL OF SECTIONS OF THE PIPING SYSTEM. UNIONS OR FLANGE SETS (AS APPROPRIATE) SHALL ALSO BE INSTALLED IN LOCATIONS TO ASSIST IN THE MAINTENANCE OF THE SYSTEMS.
8. PIPE ALL BLOWDOWNS AND RELIEFS TO THE NEAREST FLOOR DRAIN. BLOWDOWN (BALL) VALVES AND PIPING SHALL MATCH THE SIZE OF THE BLOWDOWN CONNECTION ON THE PIPING SPECIALTY. RELIEF PIPING SHALL MATCH THE SIZE OF THE CONNECTION ON THE RELIEF VALVE. ALL BLOWDOWN AND RELIEF PIPING SHALL BE PITCHED DOWN TOWARDS THE FLOOR DRAIN SO THAT THE PIPING DRAINS COMPLETELY.
9. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 12" UNLESS NOTED OTHERWISE.

KEY NOTES: (SYMBOLS (1),(2) ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 LUG-TYPE BUTTERFLY VALVE. VALVE SHALL BE INSTALLED SO THAT THE VALVE SHAFT IS PARALLEL TO THE FLUID FLOW IN THE MAIN. THE VALVE SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE MANUAL OPERATOR.

2 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

3 MOTOR-OPERATED BUTTERFLY VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPE BUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

4 PROVIDE FLANGE SETS OR RIGID, MECHANICAL GROOVED COUPLINGS SO THE PIPING BETWEEN THIS POINT AND THE EQUIPMENT CAN BE EASILY REMOVED TO CLEAR TUBE PULL SPACE AT EVAPORATOR AND CONDENSER BUNDLES IF A MARINE BOX IS NOT USED.

5 SUCTION DIFFUSER. THE SIZE OF THE INLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. THE SIZE OF THE OUTLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION CONNECTION ON THE PUMP. IF A SUCTION DIFFUSER WITH THIS EXACT CONFIGURATION IS NOT AVAILABLE, THEN THE SIZE OF BOTH THE SYSTEM SIDE (INLET) AND PUMP SIDE (OUTLET) OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. IF THE SIZE OF THE SUCTION CONNECTION ON THE PUMP DOES NOT MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP, THEN PROVIDE WELD NECK FLANGES AND A FLAT TOP, ECCENTRIC REDUCER / INCREASER TO JOIN THE SUCTION DIFFUSER TO THE PUMP. THE SIZE OF THE BLOW DOWN (BALL) VALVE AND PIPING SHALL MATCH THAT OF THE BLOW DOWN CONNECTION ON THE SUCTION DIFFUSER. TERMINATE THE BLOW DOWN PIPING AT THE NEAREST FLOOR DRAIN.

CONSTRUCTION NOTES

6 AUTOMATIC FLOW CONTROL VALVE (AFV). VALVE SHALL BE SIZED BY THE MANUFACTURER TAKING INTO ACCOUNT THE FLUID IN THE SYSTEM AS WELL AS THE TEMPERATURE RANGE OF THAT FLUID UNDER NORMAL OPERATING CONDITIONS. THE VALUES SHOWN ADJACENT TO THE SYMBOL ARE THE REQUIRED FLOW OF THE VALVE (IN GPM) AND THE REQUIRED CONTROL RANGE OF THE VALVE (DIFFERENTIAL PRESSURE IN PSI). ALL VALVES SHALL BE PROVIDED WITH THE REQUIRED FLANGE SET AND A "DIRECT-MOUNT METER KIT". THE AUTOMATIC FLOW CONTROL VALVE (AFV) WILL, MOST PROBABLY, NOT BE "LINE SIZE". IF IT IS NOT "LINE SIZE", PROVIDE REDUCERS OR INCREASERS (AS REQUIRED) TO MATE THE AUTOMATIC FLOW CONTROL VALVE (AFV) WITH THE SIZE OF THE PIPE SHOWN ON THE DRAWINGS.

7 BYPASS VALVE TO MAINTAIN FULL FLOW ACROSS THE HEAT EXCHANGER (HX). THE ACTUAL SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

8 BYPASS VALVE TO REDUCE THE PRESSURE DROP OF THE SYSTEM WHEN WATER DOES NOT NEED TO FLOW THROUGH THIS PIECE OF EQUIPMENT.

9 STAINLESS STEEL BELLOWS-TYPE VIBRATION ISOLATOR WITH DOUBLE BRAIDED REINFORCING AND "RANGE LIMITING" (CONTROL) RODS. PROVIDE FLANGED OR THREADED CONNECTIONS AS APPROPRIATE.

10 SILENT, SPRING-LOADED, GLOBE-TYPE CHECK VALVE.

11 2" ADJUSTABLE, PRESSURE RELIEF VALVE. SET AT 75 PSI.

12 VACUUM BREAKER.

13 THERMOMETER AND WELL.

14 PRESSURE GAUGE AND BALL VALVE.

15 PRESSURE GAUGE BRIDGE WITH BALL VALVES.

16 INCREASER / REDUCER IF REQUIRED.

17 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

18 DIFFERENTIAL PRESSURE TRANSDUCER AND "5 VALVE MANIFOLD" PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

19 PROVIDE AN AIR VENT AS CLOSE TO THE VALVE OR EQUIPMENT AS POSSIBLE.

20 FLANGE SET.

21 DRAIN VALVE ASSEMBLY.

22 6" HIGH, REINFORCED HOUSEKEEPING PAD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND ANCHORING OF THESE PADS.

23 16" X 6" LONG SPOOL PIECE TO CONNECT CONDENSER WATER SUPPLY MAIN TO CONCENTRIC REDUCER.

24 BALL VALVE WITH HOSE CONNECTION AND CAP. SIZE TO MATCH EQUIPMENT CONNECTION OR AS REQUIRED.

25 UNION OR FLANGE SET, AS APPROPRIATE.

26 BALL VALVE.

27 PIPE TO FLOOR DRAIN. PITCH DOWN AT A RATE OF 1/4" PER FOOT TOWARDS DRAIN.

28 ADJUSTABLE PRESSURE REDUCING VALVE. SET AT 25 PSI.

29 WATER METER WITH REMOTE DIGITAL READOUT. COORDINATE FORMAT OF READOUT WITH EMS CONTRACTOR.

30 B&G MODEL RL-2N. SUPPORT FROM SUPPLEMENTAL STEEL ABOVE AND AS CLOSE TO THE PIPING CONNECTION FLANGES, AS POSSIBLE.

31 B&G MODEL 107A HIGH CAPACITY AIR VENT.

32 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. PIPE RELIEF TO FLOOR DRAIN.

GRAPHIC LEGEND

33 STRAINER WITH BALL VALVE.

34 CONNECT TO VALVED COLD WATER CONNECTION PROVIDED BY PLUMBING CONTRACTOR.

35 AIR GAP FITTING.

36 BALL VALVE WITH LOCK SHIELD.

37 PITCH PIPING UP TOWARDS MAIN AT A RATE OF 1/4" PER FOOT.

38 DIAPHRAGM-TYPE EXPANSION TANK.

39 AERCO INDIRECT CONDENSATE TRAP.

40 AERCO CONDENSATE NEUTRALIZER KIT.

PARTIAL SYMBOL LIST

- RETURN PIPE
- SUPPLY PIPE
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- MOTORIZED CONTROL VALVE
- THREE-WAY CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- TEMPERATURE SENSOR AND WELL
- PRESSURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL
- PIPE VIBRATION ISOLATOR
- PRESSURE RELIEF VALVE

PARTIAL ABBREVIATION LIST

AHU	AIR HANDLER UNIT
CHI	CHILLER
FCU	FAN COIL UNIT
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HRU	HEAT RECOVERY UNIT
N+1	STAND-BY UNIT
PHWP	PRIMARY HOT WATER PUMP
PHWR	PRIMARY HOT WATER RETURN
PHWS	PRIMARY HOT WATER SUPPLY
SMHWP	SNOW MELT HOT WATER PUMP
SHWGP	SECONDARY HOT WATER GYLCOL PUMP
SHWR	SECONDARY HOT WATER RETURN
SHWRP	SECONDARY HOT WATER REHEAT PUMP
SHWS	SECONDARY HOT WATER SUPPLY
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

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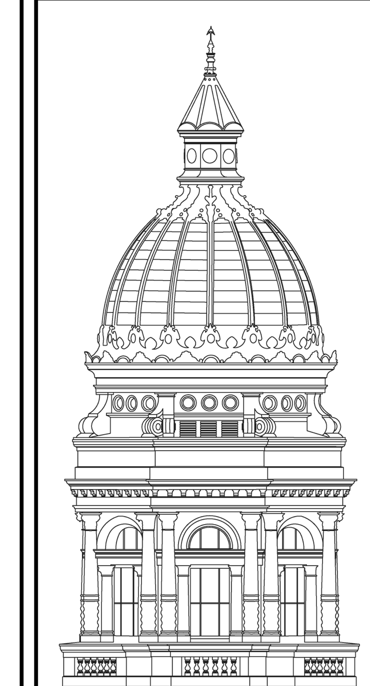

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

LORING CONSULTING ENGINEERS

PRELIMINARY
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

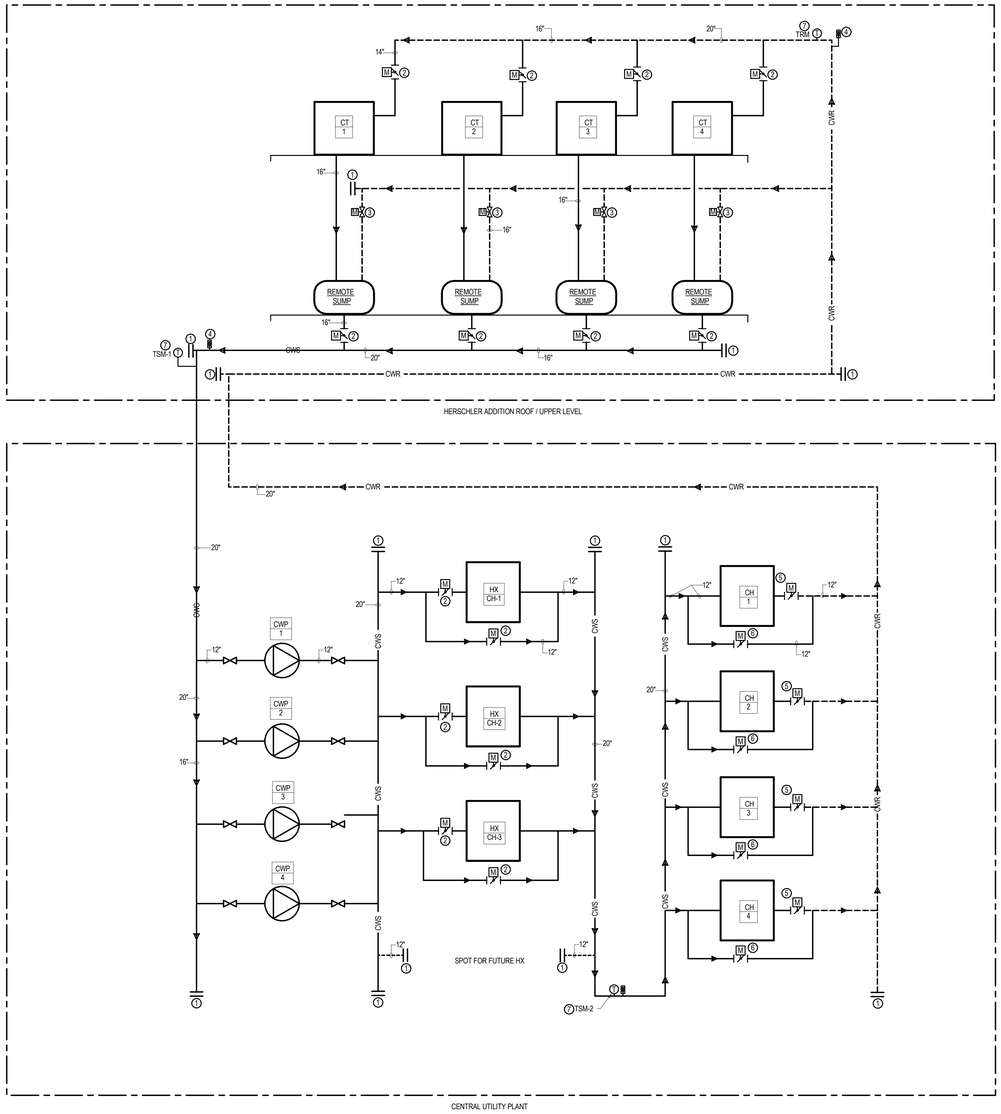
PROJECT NUMBER	
ORIGINAL ISSUE	07/10/14 -
PKG. IDENTIFIER	

MECHANICAL - HOT WATER SYSTEM PIPING DETAILS - CUP

SCALE 12" = 1'-0"

3MX602

Schematic Design



GENERAL NOTES

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS AT ALL LOW POINTS OF PIPING SYSTEM FOR DRAINS.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS AT ALL HIGH POINTS IN PIPING SYSTEM FOR AIR VENTS. ALL VALVES, SPECIALTIES, ETC. SHOWN ON THIS DIAGRAM SHALL BE "LINE SIZE" UNLESS NOTED OTHERWISE. IF THE SIZE OF THE PIPING NEEDS TO BE REDUCED OR INCREASED TO FACILITATE A CONNECTION TO THE EQUIPMENT VALVE OR SPECIALTY, THE CHANGE IN SIZE SHALL OCCUR AS CLOSE TO THE EQUIPMENT VALVE OR SPECIALTY AS IS PRACTICAL.
3. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR DETAILED INSTRUMENTATION, VALVE AND PIPING ARRANGEMENT AT EQUIPMENT. TYPICAL.
4. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 12" UNLESS NOTED OTHERWISE.
5. ALL COOLING TOWER PIPING FOR OUTSIDE OF THE CHILLER PLANT SHALL BE HEAT TRACED AND INSULATED WITH 2" THICK FIBERGLASS INSULATION WITH AN ALUMINUM JACKET. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

KEY NOTES: (SYMBOLS 1, 2 ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 BLIND FLANGE.

2 CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPEBUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

3 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR. TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

4 THERMOMETER AND WELL.

5 MODULATING HEAD PRESSURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

6 MODULATING BYPASS VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

7 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

GRAPHIC LEGEND

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- MOTORIZED CONTROL VALVE
- THREE-WAY CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- TEMPERATURE SENSOR AND WELL
- PRESSURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL

PARTIAL ABBREVIATION LIST

CH	CHILLER
CWP	CONDENSER WATER PUMP
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
NOV	MOTORIZED DAMPER
N+1	STAND-BY UNIT
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

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State of Wyoming

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Construction Management

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LORING CONSULTING ENGINEERS

PRELIMINARY
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

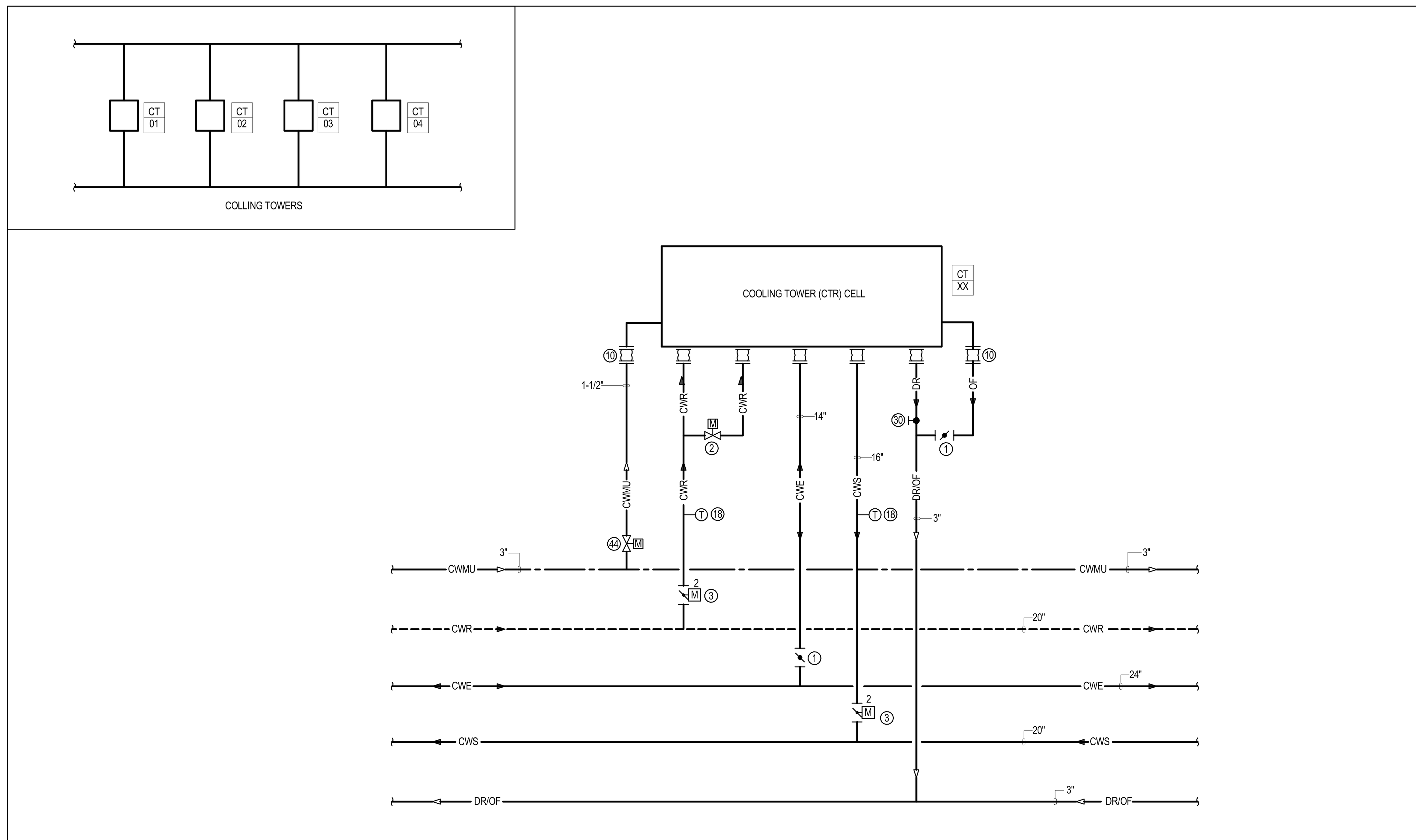
PROJECT NUMBER	
ORIGINAL ISSUE	07/10/14 -
PKG. IDENTIFIER	

MECHANICAL - CONDENSER WATER SYSTEM FLOW DIAGRAM- CUP

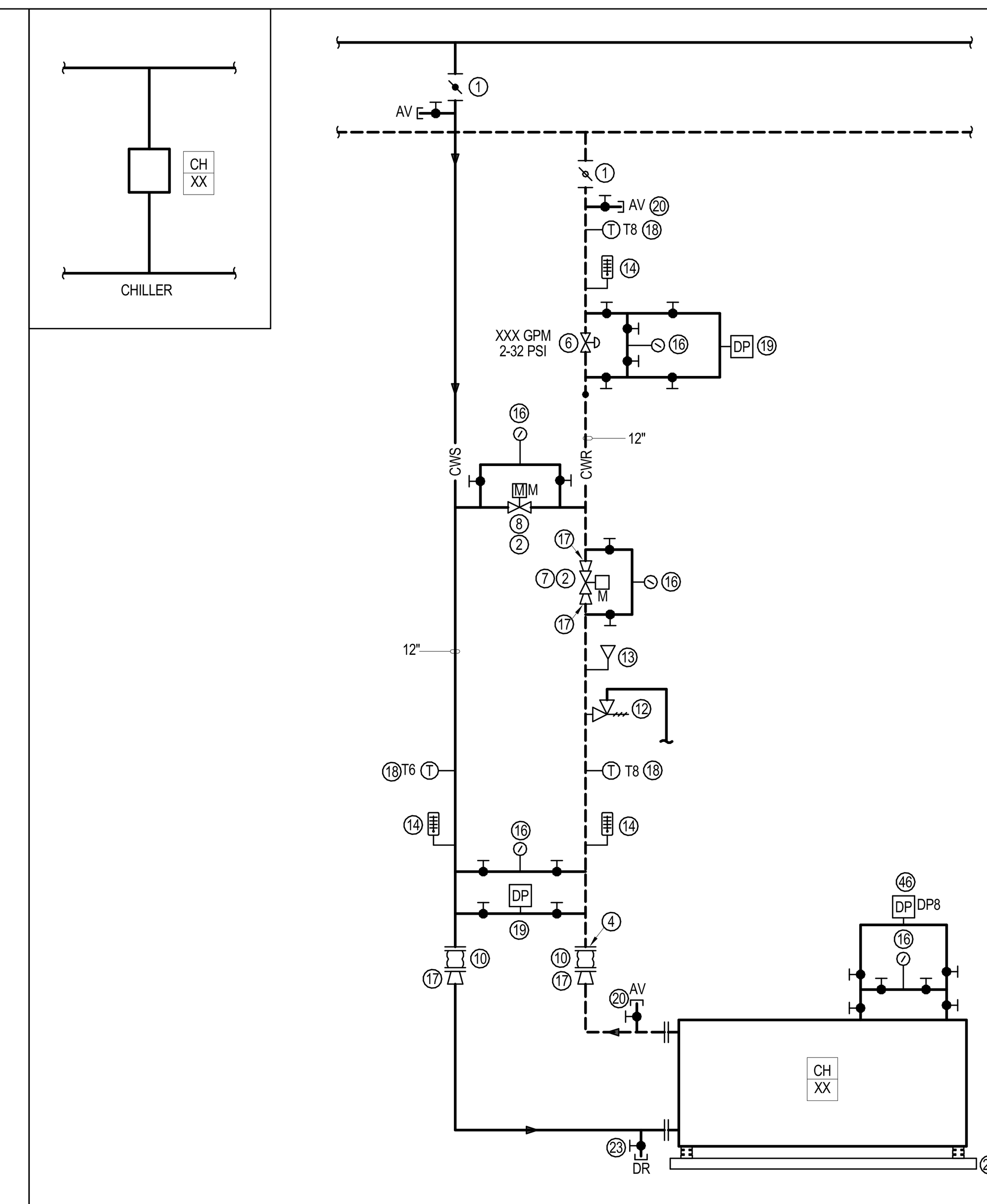
SCALE 12" = 1'-0"

3MX611

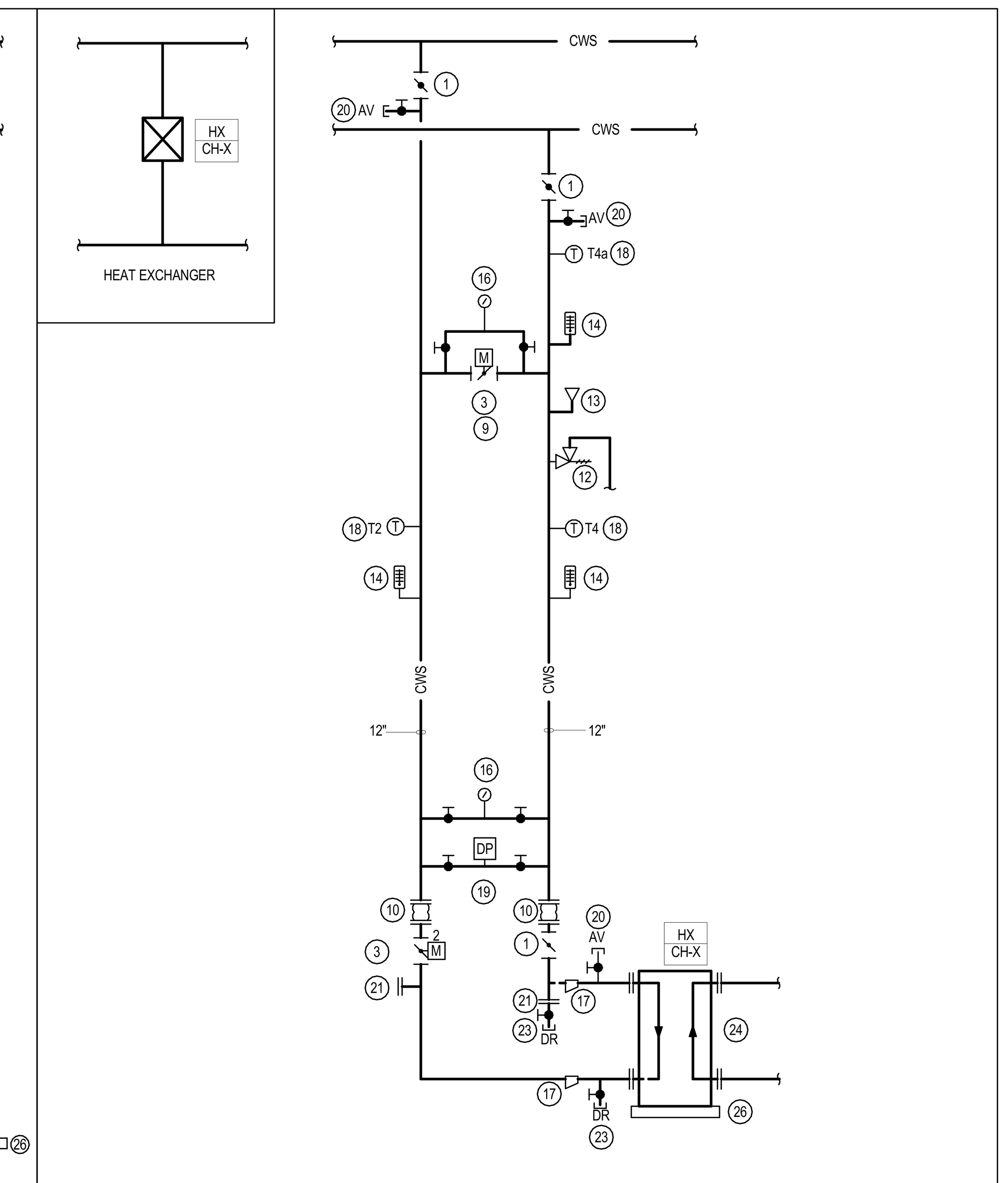
Schematic Design



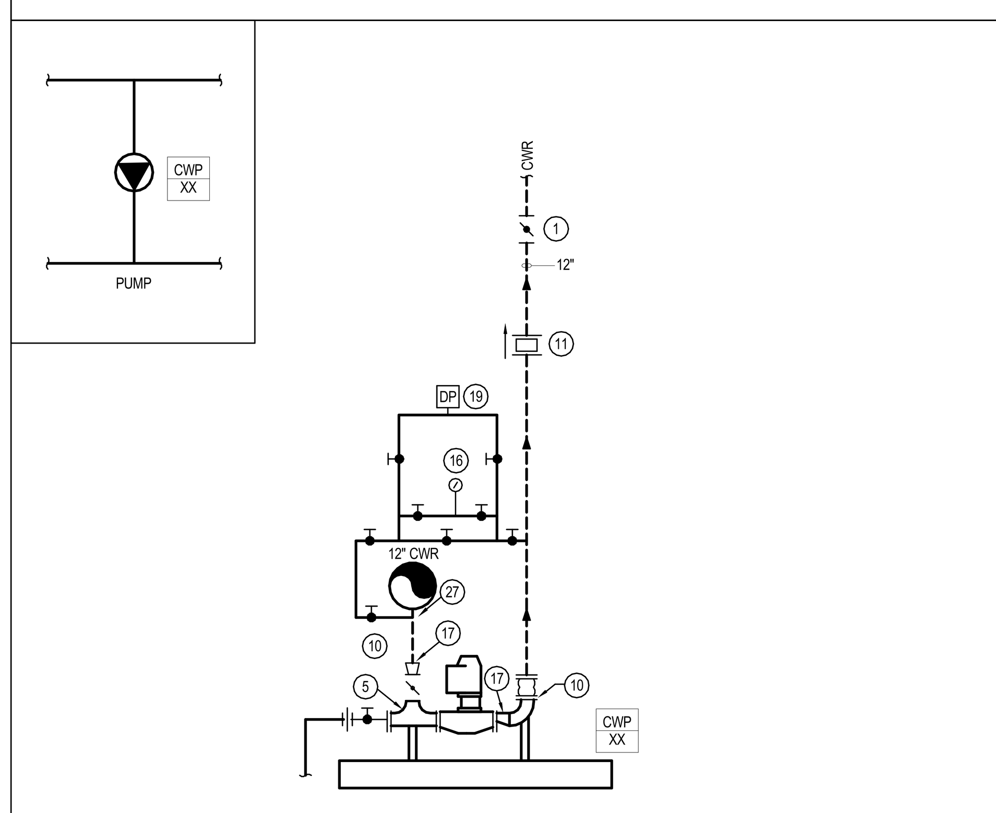
1 COOLING TOWER CELL PIPING DETAIL
NOT TO SCALE



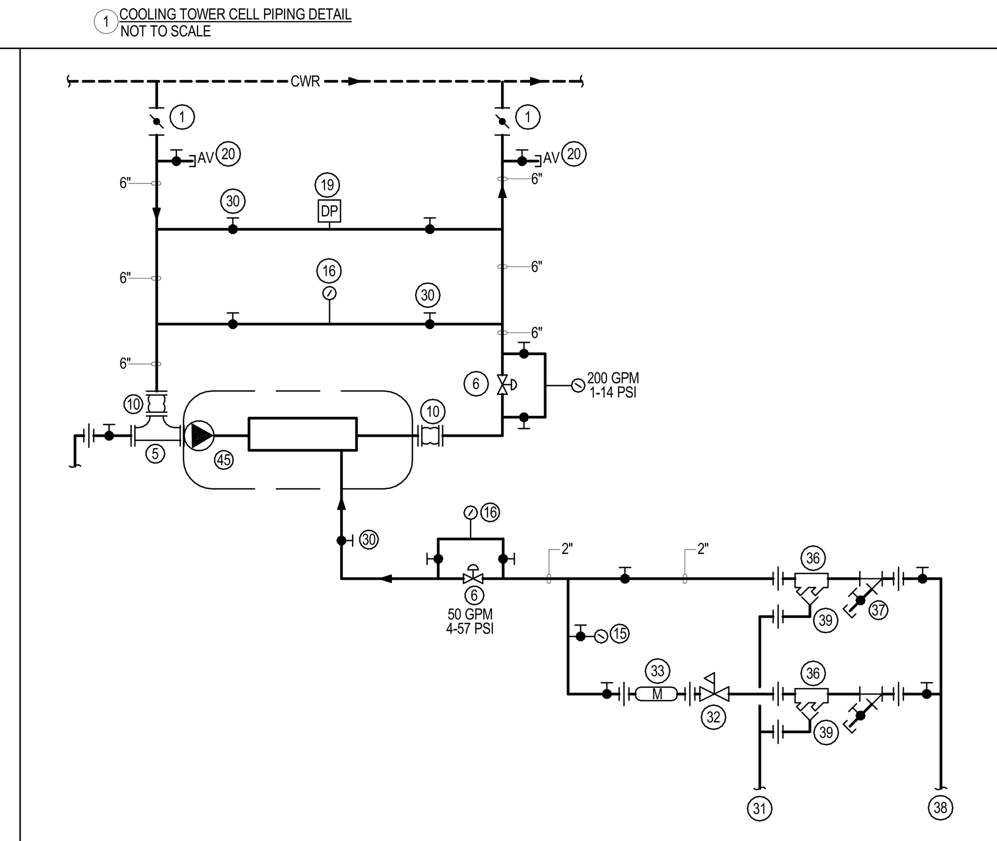
2 CHILLER PIPING DETAIL
NOT TO SCALE



3 HEAT EXCHANGER PIPING DETAIL
NOT TO SCALE



4 PUMP PIPING DETAIL
NOT TO SCALE



5 CONDENSER WATER FILTRATION INSTALLATION DETAIL
NOT TO SCALE

GENERAL NOTES

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS (DRAINS) AT ALL LOW POINTS OF THE PIPING SYSTEM.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS (AIR VENTS) AT ALL HIGH POINTS OF THE PIPING SYSTEM.
3. ALL MANUAL VALVE OPERATORS HIGHER THAN 7'-0" AFF SHALL BE PROVIDED WITH CHAIN WHEELS AND CHAINS.
4. ALL REDUCERS OR INCREASERS INSTALLED IN HORIZONTAL PIPING SHALL BE "FLAT TOP", ECCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
5. ALL REDUCERS OR INCREASERS INSTALLED IN VERTICAL PIPING SHALL BE CONCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
6. WELD NECK FLANGES SHALL BE USED AT ALL FITTINGS. SLIP ON FLANGES MAY BE USED FOR STRAIGHT PIPE.
7. PROVIDE UNIONS OR FLANGE SETS (AS APPROPRIATE) TO FACILITATE THE EASY INSTALLATION AND REMOVAL OF SECTIONS OF THE PIPING SYSTEM. UNIONS OR FLANGE SETS (AS APPROPRIATE) SHALL ALSO BE INSTALLED IN LOCATIONS TO ASSIST IN THE MAINTENANCE OF THE SYSTEMS.
8. PIPE ALL BLOWDOWNS AND RELIEFS TO THE NEAREST FLOOR DRAIN. BLOWDOWN (BALL) VALVES AND PIPING SHALL MATCH THE SIZE OF THE BLOWDOWN CONNECTION ON THE PIPING SPECIALTY. RELIEF PIPING SHALL MATCH THE SIZE OF THE CONNECTION ON THE RELIEF VALVE. ALL BLOWDOWN AND RELIEF PIPING SHALL BE PITCHED DOWN TOWARDS THE FLOOR DRAIN SO THAT THE PIPING DRAINS COMPLETELY.
9. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 1/2" UNLESS NOTED OTHERWISE.

KEY NOTES: (SYMBOLS ①, ② ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 LUG-TYPE BUTTERFLY VALVE. VALVE SHALL BE INSTALLED SO THAT THE VALVE SHAFT IS PARALLEL TO THE FLUID FLOW IN THE MAIN. THE VALVE SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE MANUAL OPERATOR.

2 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

3 MOTOR-OPERATED BUTTERFLY VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPE BUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

4 PROVIDE FLANGE SETS OR RIGID, MECHANICAL GROOVED COUPLINGS SO THE PIPING BETWEEN THIS POINT AND THE EQUIPMENT CAN BE EASILY REMOVED TO CLEAR TUBE PULL SPACE AT EVAPORATOR AND CONDENSER BUNDLES IF A MARINE BOX IS NOT USED.

5 SUCTION DIFFUSER. THE SIZE OF THE INLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. THE SIZE OF THE OUTLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION CONNECTION ON THE PUMP. IF A SUCTION DIFFUSER WITH THIS EXACT CONFIGURATION IS NOT AVAILABLE, THEN THE SIZE OF BOTH THE SYSTEM SIDE (INLET) AND PUMP SIDE (OUTLET) OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. IF THE SIZE OF THE SUCTION CONNECTION ON THE PUMP DOES NOT MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP, THEN PROVIDE WELD NECK FLANGES AND A FLAT TOP, ECCENTRIC REDUCER / INCREASER TO JOIN THE SUCTION DIFFUSER TO THE PUMP. THE SIZE OF THE BLOW DOWN (BALL) VALVE AND PIPING SHALL MATCH THAT OF THE BLOW DOWN CONNECTION ON THE SUCTION DIFFUSER. TERMINATE THE BLOW DOWN PIPING AT THE NEAREST FLOOR DRAIN.

6 AUTOMATIC FLOW CONTROL VALVE (AFV). VALVE SHALL BE SIZED BY THE MANUFACTURER TAKING INTO ACCOUNT THE FLUID IN THE SYSTEM AS WELL AS THE TEMPERATURE RANGE OF THAT FLUID UNDER NORMAL OPERATING CONDITIONS. THE VALUES SHOWN ADJACENT TO THE SYMBOL ARE THE REQUIRED FLOW OF THE VALVE (IN GPM) AND THE REQUIRED CONTROL RANGE OF THE VALVE (DIFFERENTIAL PRESSURE IN PSI). ALL VALVES SHALL BE

CONSTRUCTION NOTES

PROVIDED WITH THE REQUIRED FLANGE SET AND A "DIRECT-MOUNT METER KIT". THE AUTOMATIC FLOW CONTROL VALVE (AFV) WILL, MOST PROBABLY, NOT BE "LINE SIZE". IF IT IS NOT "LINE SIZE", PROVIDE REDUCERS OR INCREASERS (AS REQUIRED) TO MATE THE AUTOMATIC FLOW CONTROL VALVE (AFV) WITH THE SIZE OF THE PIPE SHOWN ON THE DRAWINGS.

7 HEAD PRESSURE CONTROL VALVE TO MAINTAIN A PREDETERMINED DIFFERENTIAL PRESSURE ACROSS THE REFRIGERANT SIDE OF THE EVAPORATOR AND CONDENSER BUNDLES IN THE CHILLER. THE ACTUAL SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

8 CONDENSER WATER BYPASS VALVE TO MAINTAIN FULL FLOW ACROSS THE CONDENSER BUNDLES OF THE CHILLER. THE ACTUAL SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

9 BYPASS VALVE TO REDUCE THE PRESSURE DROP OF THE SYSTEM WHEN WATER DOES NOT NEED TO FLOW THROUGH THIS PIECE OF EQUIPMENT.

10 STAINLESS STEEL BELLOWS-TYPE VIBRATION ISOLATOR WITH DOUBLE BRAIDED REINFORCING AND "RANGE LIMITING" (CONTROL) RODS. PROVIDE FLANGED OR THREADED CONNECTIONS AS APPROPRIATE.

11 SILENT, SPRING-LOADED, GLOBE-TYPE CHECK VALVE.

12 2" ADJUSTABLE, PRESSURE RELIEF VALVE. SET AT 75 PSI.

13 VACUUM BREAKER.

14 THERMOMETER AND WELL.

15 PRESSURE GAUGE AND BALL VALVE.

16 PRESSURE GAUGE BRIDGE WITH BALL VALVES.

17 INCREASER / REDUCER IF REQUIRED.

18 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

19 DIFFERENTIAL PRESSURE TRANSDUCER AND "5 VALVE MANIFOLD" PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

20 PROVIDE AN AIR VENT AS CLOSE TO THE VALVE OR EQUIPMENT AS POSSIBLE.

21 FLANGED TAP FOR CONNECTION TO "CLEAN-IN-PLACE" (CIP) SKID.

22 FLANGE SET.

23 DRAIN VALVE ASSEMBLY.

24 SEE "HEAT EXCHANGER EVAPORATOR WATER PIPING DIAGRAM" FOR CONTINUATION.

25 SEE "HEAT EXCHANGER CONDENSER WATER PIPING DIAGRAM" FOR CONTINUATION.

26 6" HIGH, REINFORCED HOUSEKEEPING PAD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND ANCHORING OF THESE PADS.

27 16" X 6" LONG SPOOL PIECE TO CONNECT CONDENSER WATER SUPPLY MAIN TO CONCENTRIC REDUCER.

28 BALL VALVE WITH HOSE CONNECTION AND CAP. SIZE TO MATCH EQUIPMENT CONNECTION OR AS REQUIRED.

29 UNION OR FLANGE SET, AS APPROPRIATE.

30 BALL VALVE.

31 PIPE TO FLOOR DRAIN

32 ADJUSTABLE PRESSURE REDUCING VALVE. SET AT 30 PSI.

33 WATER METER WITH REMOTE DIGITAL READOUT. COORDINATE FORMAT OF READOUT WITH EMS CONTRACTOR.

34 B&G MODEL RL-4F. SUPPORT FROM SUPPLEMENTAL STEEL ABOVE AND AS CLOSE TO THE PIPING CONNECTION FLANGES, AS POSSIBLE.

35 B&G MODEL 107A HIGH CAPACITY AIR VENT.

36 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. PIPE RELIEF TO FLOOR DRAIN.

37 STRAINER WITH BALL VALVE.

38 CONNECT TO VALVED COLD WATER CONNECTION PROVIDED BY PLUMBING CONTRACTOR.

39 AIR GAP FITTING. 40. BALL VALVE WITH LOCK SHIELD.

40 PITCH PIPING UP TOWARDS MAIN AT A RATE OF 1/4" PER FOOT.

41 DIAPHRAGM-TYPE EXPANSION TANK.

42 ALL OUTDOOR PIPING SHALL BE ELECTRICALLY TRACED BY DIVISION 27. HEAT TRACING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR AND POWERED BY ELECTRICAL CONTRACTOR AS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO ELECTRICAL DRAWINGS FOR FURTHER INFORMATION. PROVIDE ALL CONNECTION KITS AND ACCESSORIES REQUIRED TO COMPLETE A PROPER INSTALLATION, INCLUDING BUT NOT LIMITED TO MOUNTING BRACKETS, END SEAL KITS. PROVIDE DISTRIBUTION PANEL AS INDICATED ON DRAWINGS. DISTRIBUTION PANEL SHALL INCLUDE BELL ALARM, FAILURE LIGHT, PANEL POWER ON LIGHT, CIRCUIT BREAKER TRIP LIGHTS, HEAT TRACE ENERGIZED LIGHTS. COORDINATE ALL ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. DESIGN HAS BEEN BASED ON RAYCHEM MODEL BTV-2 SELF-REGULATING HEATING CABLES, 5 WATTS PER FOOT, 277V/1Ø/60HZ. THE MANUFACTURER OF THE HEAT TRACING SYSTEM SHALL PROVIDE DETAILED DRAWINGS, SCHEDULES AND INSTALLATION INSTRUCTIONS AS PART OF THE SHOP DRAWING PHASE OF THIS PROJECT. THESE DOCUMENTS SHALL CLEARLY INDICATE THE ACTUAL LENGTH OF HEAT TRACING FOR EACH SECTION OF PIPE ALONG WITH DETAILS THAT REFLECT THE NUANCES OF THIS PARTICULAR INSTALLATION.

43 "SLOW - OPENING" MOTORIZED, COLD WATER MAKE-UP CONTROL VALVE.

44 ALL COMPONENTS INSIDE THIS BOUNDARY ARE FURNISHED AS PART OF THE CONDENSER WATER FILTRATION SKID.

45 DIFFERENTIAL PRESSURE TRANSDUCER FOR MEASURING THE DIFFERENTIAL PRESSURE ACROSS THE EVAPORATOR AND CONDENSER BUNDLES OF THE CHILLER. THE SIGNAL FROM THIS DEVICE SHALL BE USED IN CONJUNCTION WITH THE HEAD PRESSURE CONTROL SYSTEM.

GRAPHIC LEGEND

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- MOTORIZED CONTROL VALVE
- THREE-WAY CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- TEMPERATURE SENSOR AND WELL
- PRESSURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL
- PIPE VIBRATION ISOLATOR
- PRESSURE RELIEF VALVE

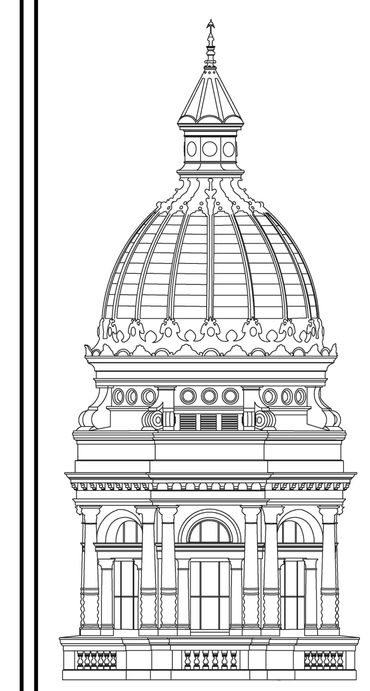
PARTIAL ABBREVIATION LIST

AV	AIR VENT
CH	CHILLER
CWE	CONDENSER WATER EQUALIZER
CWMP	COLD WATER MAKE UP
CWP	CONDENSER WATER PUMP
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
DP	DIFFERENTIAL PRESSURE
DR	DRAIN
DR / OF	DRAIN VALVE / OVERFLOW
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
MOV	MOTORIZED DAMPER
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

State of Wyoming

Administration & Information
Construction Management



Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	
ORIGINAL ISSUE	07/10/14 -
PKG. IDENTIFIER	

MECHANICAL - CONDENSER WATER SYSTEM PIPING DETAILS-CUP

SCALE 12" = 1'-0"

3MX612

Schematic Design

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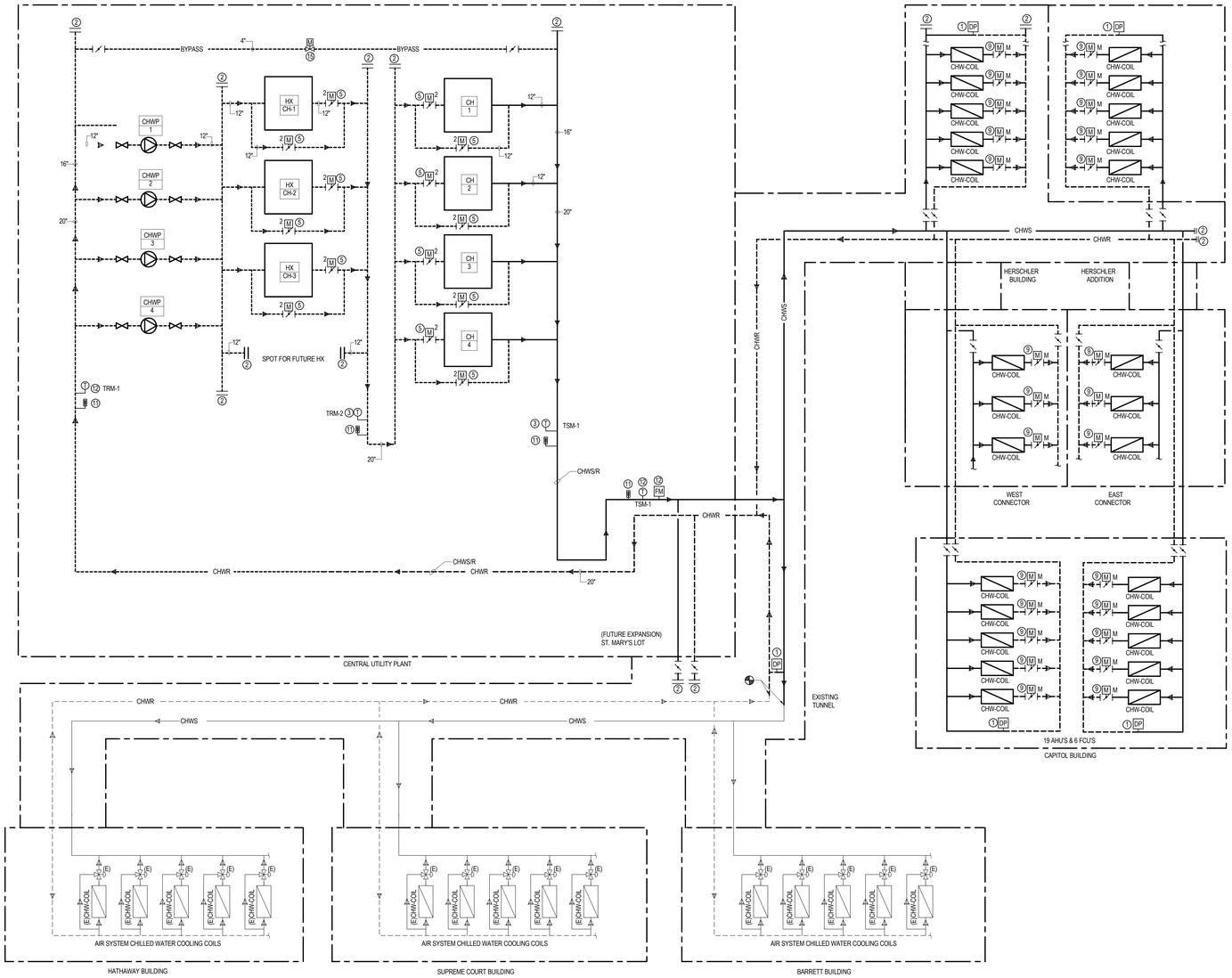

1 CHILLED WATER SYSTEM FLOW DIAGRAM- CUP
NOT TO SCALE

GENERAL NOTES

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS AT ALL LOW POINTS OF PIPING SYSTEM FOR DRAINS.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS AT ALL HIGH POINTS IN PIPING SYSTEM FOR AIR VENTS.
3. ALL VALVES, SPECIALTIES, ETC. SHOWN ON THIS DIAGRAM SHALL BE "LINE SIZE" UNLESS NOTED OTHERWISE. IF THE SIZE OF THE PIPING NEEDS TO BE REDUCED OR INCREASED TO FACILITATE A CONNECTION TO THE EQUIPMENT VALVE OR SPECIALTY, THE CHANGE IN SIZE SHALL OCCUR AS CLOSE TO THE EQUIPMENT VALVE OR SPECIALTY AS IS PRACTICAL.
4. SEE CHILLED WATER SYSTEM PIPING DETAILS FOR DETAILED INSTRUMENTATION, VALVE AND PIPING ARRANGEMENT AT EQUIPMENT. TYPICAL.
5. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 12" UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTES

KEY NOTES: (SYMBOL3.5.1) (2) ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 DIFFERENTIAL PRESSURE TRANSMITTER. SEE FLOOR PLAN FOR ACTUAL QUANTITIES AND LOCATIONS.

2 BLIND FLANGE.

3 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

4 FLOW METER (TYP).

5 MOTOR-OPERATED BUTTERFLY VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPE BUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

6 MINIMIZE THE QUANTITY OF OFFSETS IN THIS PIPING SO THAT THE PRESSURE DROP IN THIS RUN IS AS LOW AS PRACTICAL.

7 THE SECTION OF PIPE BETWEEN THE TAKE OFFS SHALL BE STRAIGHT PIPE WITHOUT ANY FITTINGS.

8 AUTOMATIC FLOW CONTROL VALVE (AFV). VALVE SHALL BE SIZED BY THE MANUFACTURER TAKING INTO ACCOUNT THE FLUID IN THE SYSTEM AS WELL AS THE TEMPERATURE RANGE OF THAT FLUID UNDER NORMAL OPERATING CONDITIONS. THE VALUES SHOWN ADJACENT TO THE SYMBOL ARE THE REQUIRED FLOW OF THE VALVE (IN GPM) AND THE REQUIRED CONTROL RANGE OF THE VALVE (DIFFERENTIAL PRESSURE IN PSI). ALL VALVES SHALL BE PROVIDED WITH THE REQUIRED FLANGE SET AND A "DIRECT-MOUNT METER KIT". THE AUTOMATIC FLOW CONTROL VALVE (AFV) WILL MOST PROBABLY, NOT BE "LINE SIZE". IF IT IS NOT "LINE SIZE", PROVIDE REDUCERS OR INCREASERS (AS REQUIRED) TO MATE THE AUTOMATIC FLOW CONTROL VALVE (AFV) WITH THE SIZE OF THE PIPE SHOWN ON THE DRAWINGS. AFV SHALL FLOW 30 GPM OVER A CONTROL RANGE OF 1-14 PSID.

9 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

10 FOR MINIMUM SYSTEM FLOW REQUIREMENTS, 3-WAY VALVES ARE TO BE PROVIDED IN THESE AREAS. REFER TO EQUIPMENT SCHEDULES FOR 3-WAY VALVES.

11 THERMOMETER AND WELL.

12 FLOW METER AND / OR TEMPERATURE SENSOR AND WELL PROVIDED AS PART OF A 'BTU METER.'

GRAPHIC LEGEND

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- MOTORIZED CONTROL VALVE
- THREE-WAY CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- TEMPERATURE SENSOR AND WELL
- PRESSURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL

PARTIAL ABBREVIATION LIST

AHU	AIR HANDLER UNIT
CHI	CHILLER
FCU	FAN COIL UNIT
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HRU	HEAT RECOVERY UNIT
N+1	STAND-BY UNIT
CHWP	CHILLED WATER PUMP
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

LORING CONSULTING ENGINEERS

PRELIMINARY
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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER	
ORIGINAL ISSUE	07/10/14 -
PKG. IDENTIFIER	

MECHANICAL - CHILLED WATER SYSTEM FLOW DIAGRAM- CUP

SCALE NOT TO SCALE

3MX621

Schematic Design

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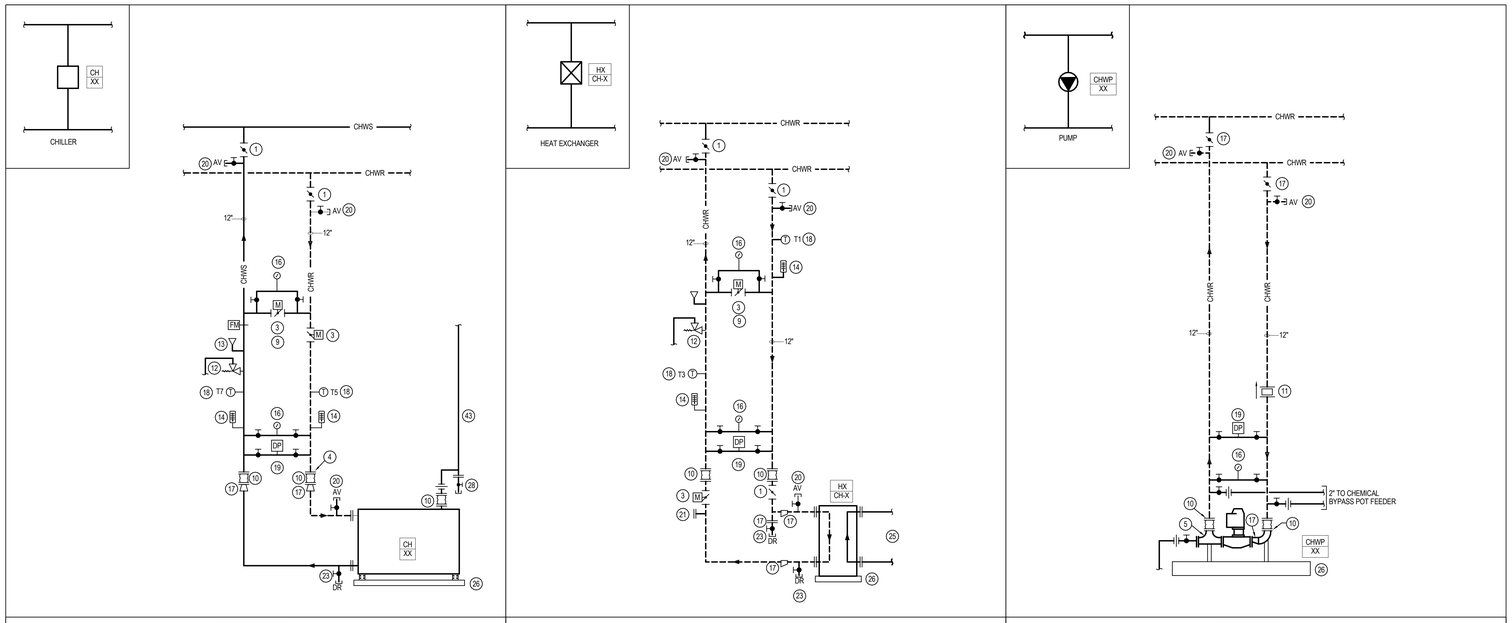
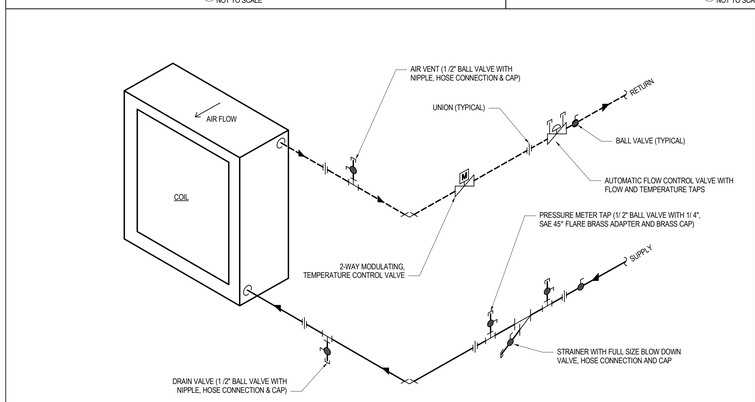


1 CHILLER PIPING DETAIL
NOT TO SCALE

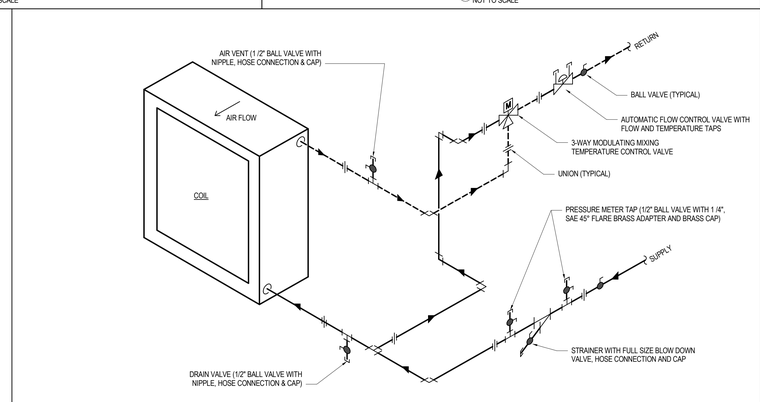
2 HEAT EXCHANGER PIPING DETAIL
NOT TO SCALE

3 PUMP PIPING DETAIL
NOT TO SCALE



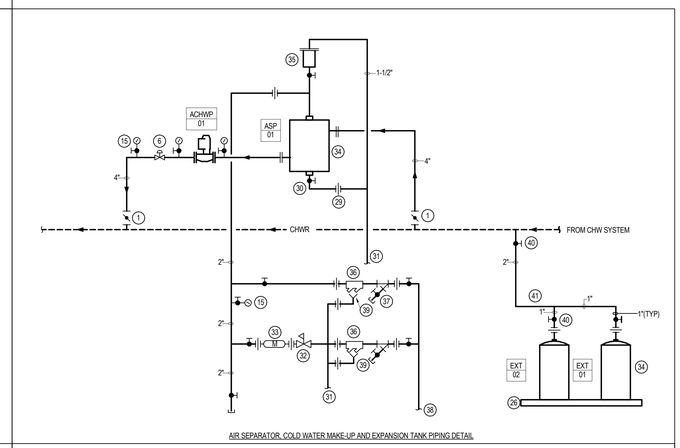
NOTES:
1. IF AN AHU OR HR HAS MORE THAN ONE COIL IN A SINGLE POSITION, THEN THIS DETAIL SHALL APPLY TO EACH COIL. IN OTHER WORDS, IF THE COOLING COIL IN AN AHU OR HRU UNIT WAS SPLIT INTO 3 SELECTIONS OR PARTS, THEN THE CONTRACTOR SHALL PROVIDE 3 STRAINERS, 3 CONTROL VALVES, 3 CALIBRATED ORIFICE . BALANCING VALVES, 3 AUTOMATIC FLOW CONTROL VALVES, ETC. FOR THIS UNIT.

4 FAN COIL, AHU AND HRU UNITS WITH 2-WAY CONTROL VALVE PIPING DETAIL
NOT TO SCALE



NOTES:
1. IF AN AHU OR HR HAS MORE THAN ONE COIL IN A SINGLE POSITION, THEN THIS DETAIL SHALL APPLY TO EACH COIL. IN OTHER WORDS, IF THE COOLING COIL IN AN AH OR HRU UNIT WAS SPLIT INTO 3 SECTIONS OR PARTS, THEN THE CONTRACTOR SHALL PROVIDE 3 STRAINERS, 3 CONTROL VALVES, 3 CALIBRATED ORIFICE . BALANCING VALVES, 3 AUTOMATIC FLOW CONTROL VALVES, ETC. FOR THIS UNIT.

5 FAN COIL, AHU, HRU AND DOAS UNIT WITH 3-WAY CONTROL VALVE PIPING DETAIL
NOT TO SCALE



AIR SEPARATOR, COLD WATER MAKE-UP AND EXPANSION TANK PIPING DETAIL

6 AIR SEPARATOR, COLD WATER MAKE-UP AND EXPANSION TANK PIPING DETAIL
NOT TO SCALE

GENERAL NOTES

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS (DRAINS) AT ALL LOW POINTS OF THE PIPING SYSTEM.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS (AIR VENTS) AT ALL HIGH POINTS OF THE PIPING SYSTEM.
3. ALL MANUAL VALVE OPERATORS HIGHER THAN 7'-0" AFF SHALL BE PROVIDED WITH CHAIN WHEELS AND CHAINS.
4. ALL REDUCERS OR INCREASERS INSTALLED IN HORIZONTAL PIPING SHALL BE "FLAT TOP", ECCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
5. ALL REDUCERS OR INCREASERS INSTALLED IN VERTICAL PIPING SHALL BE CONCENTRIC FITTINGS, UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
6. WELD NECK FLANGES SHALL BE USED AT ALL FITTINGS. SLIP ON FLANGES MAY BE USED FOR STRAIGHT PIPE.
7. PROVIDE UNIONS OR FLANGE SETS (AS APPROPRIATE) TO FACILITATE THE EASY INSTALLATION AND REMOVAL OF SECTIONS OF THE PIPING SYSTEM. UNIONS OR FLANGE SETS (AS APPROPRIATE) SHALL ALSO BE INSTALLED IN LOCATIONS TO ASSIST IN THE MAINTENANCE OF THE SYSTEMS.
8. PIPE ALL BLOWDOWNS AND RELIEFS TO THE NEAREST FLOOR DRAIN. BLOWDOWN (BALL) VALVES AND PIPING SHALL MATCH THE SIZE OF THE BLOWDOWN CONNECTION ON THE PIPING SPECIALTY. RELIEF PIPING SHALL MATCH THE SIZE OF THE CONNECTION ON THE RELIEF VALVE. ALL BLOWDOWN AND RELIEF PIPING SHALL BE PITCHED DOWN TOWARDS THE FLOOR DRAIN SO THAT THE PIPING DRAINS COMPLETELY.
9. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 1/2" UNLESS NOTED OTHERWISE.

KEY NOTES: (SYMBOLS 1 2 ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 LUG-TYPE BUTTERFLY VALVE. VALVE SHALL BE INSTALLED SO THAT THE VALVE SHAFT IS PARALLEL TO THE FLUID FLOW IN THE MAIN. THE VALVE SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. PROVIDE MANUAL OPERATOR.

2 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "Z" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

3 MOTOR-OPERATED BUTTERFLY VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "Z" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPE BUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

4 PROVIDE FLANGE SETS OR RIGID, MECHANICAL GROOVED COUPLINGS SO THE PIPING BETWEEN THIS POINT AND THE EQUIPMENT CAN BE EASILY REMOVED TO CLEAR TUBE PULL SPACE AT EVAPORATOR AND CONDENSER BUNDLES IF A MARINE BOX IS NOT USED.

5 SUCTION DIFFUSER. THE SIZE OF THE INLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. THE SIZE OF THE OUTLET OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION CONNECTION ON THE PUMP. IF A SUCTION DIFFUSER WITH THIS EXACT CONFIGURATION IS NOT AVAILABLE, THEN THE SIZE OF BOTH THE SYSTEM SIDE (INLET) AND PUMP SIDE (OUTLET) OF THE SUCTION DIFFUSER SHALL MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP. IF THE SIZE OF THE SUCTION CONNECTION ON THE PUMP DOES NOT MATCH THE SIZE OF THE SUCTION PIPING DROP TO THE PUMP, THEN PROVIDE WELD NECK FLANGES AND A FLAT TOP, ECCENTRIC REDUCER / INCREASER TO JOIN THE SUCTION DIFFUSER TO THE PUMP. THE SIZE OF THE BLOW DOWN (BALL) VALVE AND PIPING SHALL MATCH THAT OF THE BLOW DOWN CONNECTION ON THE SUCTION DIFFUSER. TERMINATE THE BLOW DOWN PIPING AT THE NEAREST FLOOR DRAIN.

CONSTRUCTION NOTES

6 AUTOMATIC FLOW CONTROL VALVE (AFV). VALVE SHALL BE SIZED BY THE MANUFACTURER TAKING INTO ACCOUNT THE FLUID IN THE SYSTEM AS WELL AS THE TEMPERATURE RANGE OF THAT FLUID UNDER NORMAL OPERATING CONDITIONS. THE VALUES SHOWN ADJACENT TO THE SYMBOL ARE THE REQUIRED FLOW OF THE VALVE (IN GPM) AND THE REQUIRED CONTROL RANGE OF THE VALVE (DIFFERENTIAL PRESSURE IN PSI) ALL VALVES SHALL BE PROVIDED WITH THE REQUIRED FLANGE SET AND A "DIRECT-MOUNT METER KIT". THE AUTOMATIC FLOW CONTROL VALVE (AFV) WILL, MOST PROBABLY, NOT BE "LINE SIZE". IF IT IS NOT "LINE SIZE", PROVIDE REDUCERS OR INCREASERS (AS REQUIRED) TO MATE THE AUTOMATIC FLOW CONTROL VALVE (AFV) WITH THE SIZE OF THE PIPE SHOWN ON THE DRAWINGS.

7 HEAD PRESSURE CONTROL VALVE TO MAINTAIN A PREDETERMINED DIFFERENTIAL PRESSURE ACROSS THE REFRIGERANT SIDE OF THE EVAPORATOR AND CONDENSER BUNDLES IN THE CHILLER. THE ACTUAL SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

8 BYPASS VALVE TO MAINTAIN FULL FLOW ACROSS THE HEAT EXCHANGER (HEX). THE ACTUAL SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

9 BYPASS VALVE TO REDUCE THE PRESSURE DROP OF THE SYSTEM WHEN WATER DOES NOT NEED TO FLOW THROUGH THIS PIECE OF EQUIPMENT.

10 STAINLESS STEEL BELLOWS-TYPE VIBRATION ISOLATOR WITH DOUBLE BRAIDED REINFORCING AND "RANGE LIMITING" (CONTROL) RODS. PROVIDE FLANGED OR THREADED CONNECTIONS AS APPROPRIATE.

11 SILENT, SPRING-LOADED, GLOBE-TYPE CHECK VALVE.

12 2" ADJUSTABLE, PRESSURE RELIEF VALVE. SET AT 75 PSI.

13 VACUUM BREAKER.

14 THERMOMETER AND WELL.

15 PRESSURE GAUGE AND BALL VALVE.

16 PRESSURE GAUGE BRIDGE WITH BALL VALVES.

17 INCREASER / REDUCER IF REQUIRED.

18 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

19 DIFFERENTIAL PRESSURE TRANSDUCER AND "5 VALVE MANIFOLD" PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

20 PROVIDE AN AIR VENT AS CLOSE TO THE VALVE OR EQUIPMENT AS POSSIBLE.

21 FLANGED TAP FOR CONNECTION TO "CLEAN-IN-PLACE" (CIP) SKID.

22 FLANGE SET.

23 DRAIN VALVE ASSEMBLY.

24 SEE "HEAT EXCHANGER EVAPORATOR WATER PIPING DIAGRAM" FOR CONTINUATION

25 SEE "HEAT EXCHANGER CONDENSER WATER PIPING DIAGRAM" FOR CONTINUATION.

26 6" HIGH, REINFORCED HOUSEKEEPING PAD. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION CONCERNING THE CONSTRUCTION AND ANCHORING OF THESE PADS.

27 16" X 6" LONG SPOOL PIECE TO CONNECT CONDENSER WATER SUPPLY MAIN TO CONCENTRIC REDUCER.

28 BALL VALVE WITH HOSE CONNECTION AND CAP. SIZE TO MATCH EQUIPMENT CONNECTION OR AS REQUIRED.

29 UNION OR FLANGE SET, AS APPROPRIATE.

30 BALL VALVE.

31 PIPE TO FLOOR DRAIN.

32 ADJUSTABLE PRESSURE REDUCING VALVE. SET AT 25 PSI.

GRAPHIC LEGEND

33 WATER METER WITH REMOTE DIGITAL READOUT. COORDINATE FORMAT OF READOUT WITH EMS CONTRACTOR.

34 B&G MODEL RL-4F. SUPPORT FROM SUPPLEMENTAL STEEL ABOVE AND AS CLOSE TO THE PIPING CONNECTION FLANGES, AS POSSIBLE.

35 B&G MODEL 107A HIGH CAPACITY AIR VENT.

36 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR. PIPE RELIEF TO FLOOR DRAIN.

37 STRAINER WITH BALL VALVE.

38 CONNECT TO VALVED COLD WATER CONNECTION PROVIDED BY PLUMBING CONTRACTOR.

39 AIR GAP FITTING.

40 BALL VALVE WITH LOCK SHIELD.

41 PITCH PIPING UP TOWARDS MAIN AT A RATE OF 1/4" PER FOOT.

42 DIAPHRAGM-TYPE EXPANSION TANK.

43 REFRIGERANT RELIEF LINE. ROUTE THE RELIEF FOR EACH CHILLER TO THE OUTDOORS. DO NOT COMBINE THE RELIEF FROM MULTIPLE CHILLERS INTO A COMMON LINE.

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- MOTORIZED CONTROL VALVE
- AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- TEMPERATURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL
- PIPE VIBRATION ISOLATOR
- PRESSURE RELIEF VALVE
- SILENT SPRINT LOADED GLOBE TYPE CHECK VALVE
- VACUUM BREAKER WITH LOCK-SHIELD BALL VALVE

PARTIAL ABBREVIATION LIST

ACHWP	AIR SEPARATOR CHILLED WATER PUMP
ASP	AIR SEPARATOR
AV	AIR VENT
CHI	CHILLER
CHWP	CHILLED WATER PUMP
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DR	DRAIN
EXT	EXPANSION TANK
FCU	FAN COIL UNIT
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HRU	HEAT RECOVERY UNIT
N+1	STAND-BY UNIT
OF	OVERFLOW
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

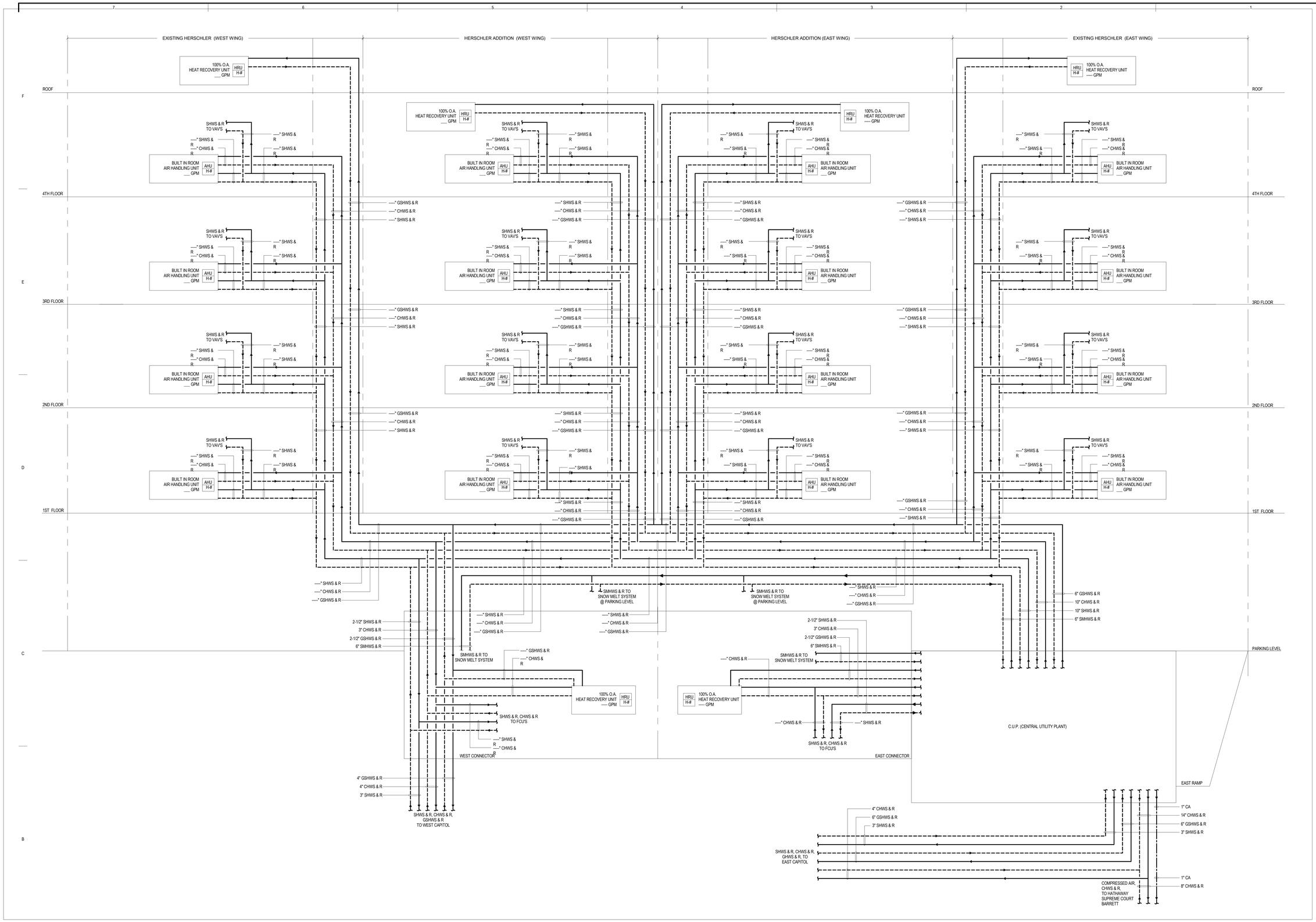
PROJECT NUMBER
ORIGINAL ISSUE 08/28/14 -
PKG. IDENTIFIER

MECHANICAL - CHILLED WATER SYSTEM PIPING DETAILS- CUP

SCALE 12" = 1'-0"

3MX622

Schematic Design



GENERAL NOTES

CONSTRUCTION NOTES

- DP — DIFFERENTIAL PRESS TRANSMITTER
- M — MOTORIZED BUTTERFLY VALVE
- BUTTERFLY VALVE
- M — MOTORIZED CONTROL VALVE
- 3-W — THREE-WAY CONTROL VALVE
- FCV — AUTOMATIC FLOW CONTROL VALVE
- MANUAL SHUT-OFF VALVE
- DIRECTION OF FLOW
- ALTERNATE OR EMERGENCY DIRECTION OF FLOW
- T — TEMPERATURE SENSOR AND WELL
- P — PRESSURE SENSOR AND WELL
- BALL VALVE
- FM — FLOW METER
- THERMOMETER AND WELL

1. PROVIDE BALL VALVES WITH HOSE CONNECTIONS AND CAPS AT ALL LOW POINTS OF PIPING SYSTEM FOR DRAINS.
2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS AT ALL HIGH POINTS IN PIPING SYSTEM FOR AIR VENTS. ALL VALVES, SPECIALTIES, ETC. SHOWN ON THIS DIAGRAM SHALL BE "LINE SIZE" UNLESS NOTED OTHERWISE. IF THE SIZE OF THE PIPING NEEDS TO BE REDUCED OR INCRESASED TO FACILITATE A CONNECTION TO THE EQUIPMENT VALVE OR SPECIALTY, THE CHANGE IN SIZE SHALL OCCUR AS CLOSE TO THE EQUIPMENT VALVE OR SPECIALTY AS IS PRACTICAL.
3. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR DETAILED INSTRUMENTATION, VALVE AND PIPING ARRANGEMENT AT EQUIPMENT. TYPICAL.
4. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 12" UNLESS NOTED OTHERWISE.
5. ALL COOLING TOWER PIPING FOR OUTSIDE OF THE CHILLER PLANT SHALL BE HEAT TRACED AND INSULATED WITH 2" THICK FIBERGLASS INSULATION WITH AN ALUMINUM JACKET. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR ADDITIONAL INFORMATION.

GRAPHIC LEGEND

KEY NOTES: (SYMBOLS① / ②ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 BLIND FLANGE.

2 CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPEBUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

3 TEMPERATURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2-POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR. TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

4 THERMOMETER AND WELL.

5 MODULATING HEAD PRESSURE CONTROL VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

6 MODULATING BYPASS VALVE PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. THE ACTUAL TYPE AND SIZE OF THIS VALVE SHALL BE DETERMINED BY THE EMS CONTRACTOR.

7 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- SECONDARY HOT WATER RETURN
- SECONDARY HOT WATER SUPPLY
- GLYCOL SECONDARY HOT WATER RETURNM
- GLYCOL SECONDARY HOT WATER SUPPLY
- SNOW MELT SECONDARY HOT WATER RETURN
- SNOW MELT SECONDARY HOT WATER SUPPLY
- COMPRESSED AIR

PARTIAL ABBREVIATION LIST

CHWS & R	CHILLED WATER SUPPLY AND RETURN
SHWS & R	SECONDARY HOT WATER SUPPLY AND RETURN
GSHWS & R	GLYCOL SECONDARY HOT WATER SUPPLY AND RETURN
SMSHWS & R	SNOW MELT SECONDARY HOT WATER SUPPLY AND RETURN

KEY PLAN

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MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

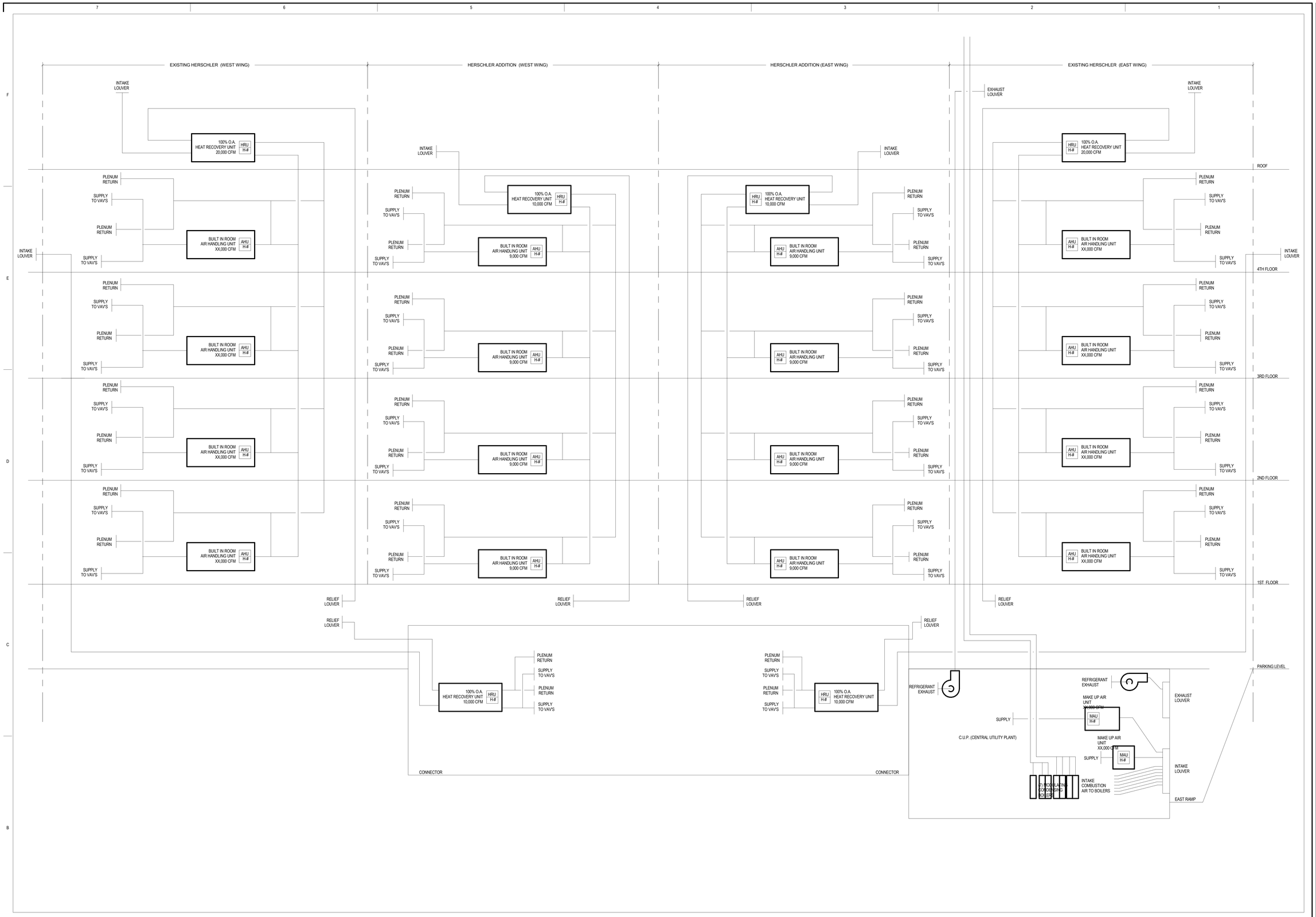
PROJECT NUMBER	
ORIGINAL ISSUE	08/28/14 -
PKG. IDENTIFIER	

MECHANICAL - WATER FLOW DIAGRAM - HERSCHLER

SCALE 1/2" = 1'-0"

3MX631

Schematic Design



GENERAL NOTES

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2. PROVIDE BALL VALVES WITH "U" BENDS, HOSE CONNECTIONS AND CAPS AT ALL HIGH POINTS IN PIPING SYSTEM FOR AIR VENTS. ALL VALVES, SPECIALTIES, ETC. SHOWN ON THIS DIAGRAM SHALL BE "LINE SIZE" UNLESS NOTED OTHERWISE. IF THE SIZE OF THE PIPING NEEDS TO BE REDUCED OR INCREASED TO FACILITATE A CONNECTION TO THE EQUIPMENT VALVE OR SPECIALTY, THE CHANGE IN SIZE SHALL OCCUR AS CLOSE TO THE EQUIPMENT VALVE OR SPECIALTY AS IS PRACTICAL.
3. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR DETAILED INSTRUMENTATION, VALVE AND PIPING ARRANGEMENT AT EQUIPMENT. TYPICAL.
4. THE SIZE OF ALL PIPING AND / OR TUBING ASSOCIATED WITH PRESSURE GAUGES, PRESSURE GAUGE BRIDGES OR DIFFERENTIAL PRESSURE TRANSMITTERS, DIFFERENTIAL PRESSURE SENSORS OR DIFFERENTIAL PRESSURE SWITCHES SHALL BE 12" UNLESS NOTED OTHERWISE.
5. ALL COOLING TOWER PIPING FOR OUTSIDE OF THE CHILLER PLANT SHALL BE HEAT TRACED AND INSULATED WITH 2" THICK FIBERGLASS INSULATION WITH AN ALUMINUM JACKET. SEE CONDENSER WATER SYSTEM PIPING DETAILS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

KEY NOTES: (SYMBOLS: 1, 2 ETC.)
(ALL KEY NOTES SHOWN BELOW MAY NOT BE USED FOR THIS PARTICULAR DRAWING.)

1 BLIND FLANGE.

2 CONTRACTOR, A "2" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A 2 POSITION ACTUATOR WHILE AN "M" ADJACENT TO THE VALVE INDICATES THAT THE VALVE SHALL BE PROVIDED WITH A MODULATING ACTUATOR. VALVE SHALL BE A LUG-TYPEBUTTERFLY VALVE. PROVIDE A MANUAL OPERATOR IN ADDITION TO THE MOTOR OPERATOR.

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7 TEMPERATURE SENSOR AND WELL PROVIDED BY THE EMS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.

GRAPHIC LEGEND

PARTIAL SYMBOL LIST

- CHILLED WATER RETURN
- CHILLED WATER SUPPLY
- DIFFERENTIAL PRESS TRANSMITTER
- MOTORIZED BUTTERFLY VALVE
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- PRESSURE SENSOR AND WELL
- BALL VALVE
- FLOW METER
- THERMOMETER AND WELL

PARTIAL ABBREVIATION LIST

CH	CHILLER
CWP	CONDENSER WATER PUMP
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
NOV	MOTORIZED DAMPER
N+1	STAND-BY UNIT
TRM	TEMPERATURE SENSOR RETURN MASTER
TSM	TEMPERATURE SENSOR SUPPLY MASTER

KEY PLAN

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER

ORIGINAL ISSUE 10/23/14 -

PKG. IDENTIFIER

MECHANICAL - AIR FLOW DIAGRAM - HERSCHLER

SCALE 12" = 1'-0"

3MX633

Schematic Design

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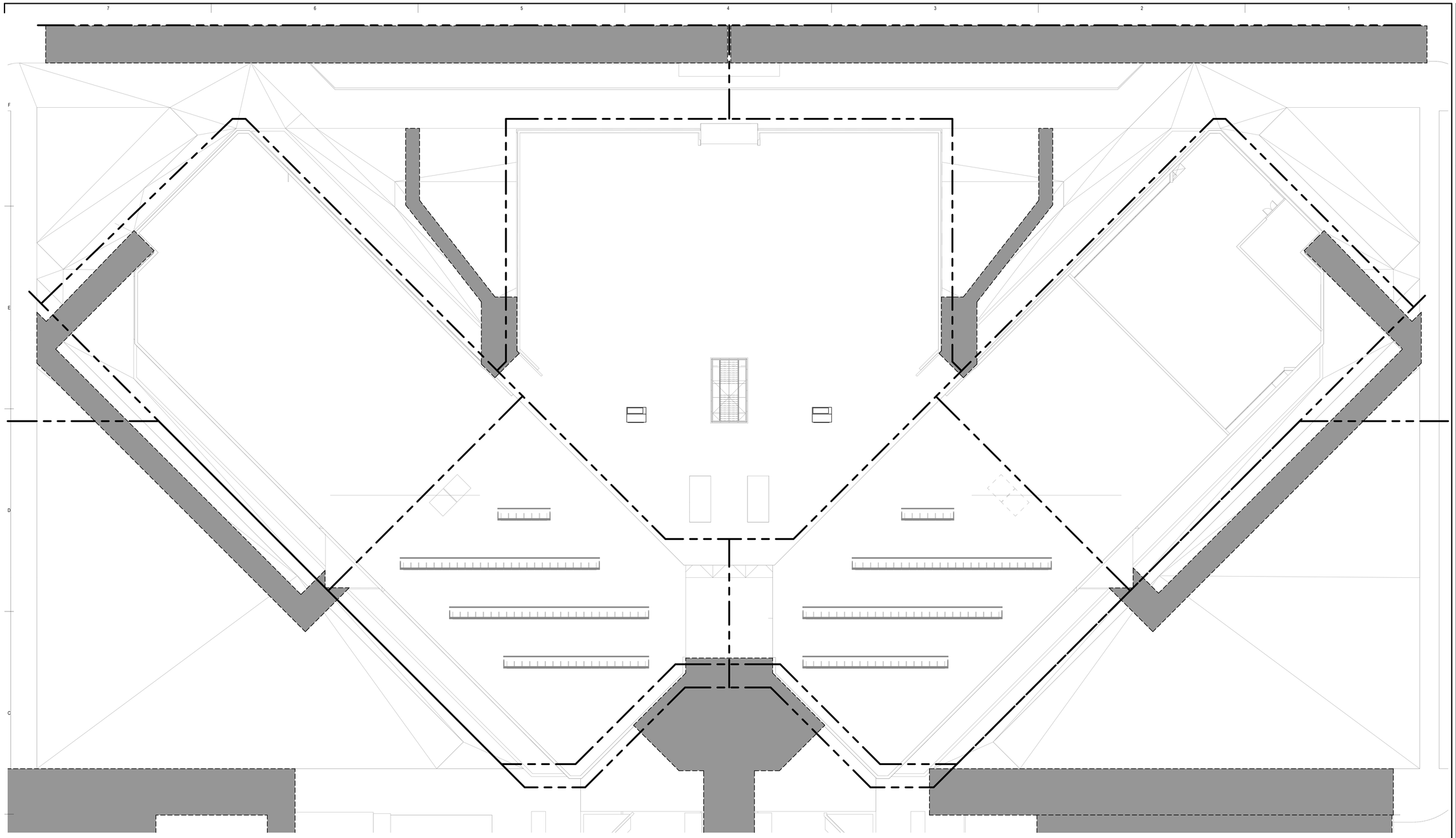
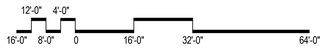


1 HVAC - SNOW MELT NORTH
1/16" = 1'-0"



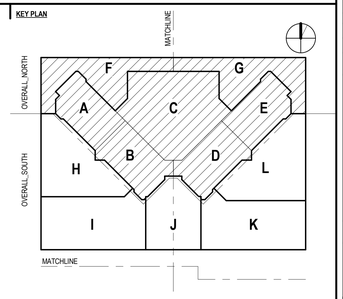
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

SNOWMELT AREA

KEY PLAN



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ORIGINAL ISSUE	10/15/14 -
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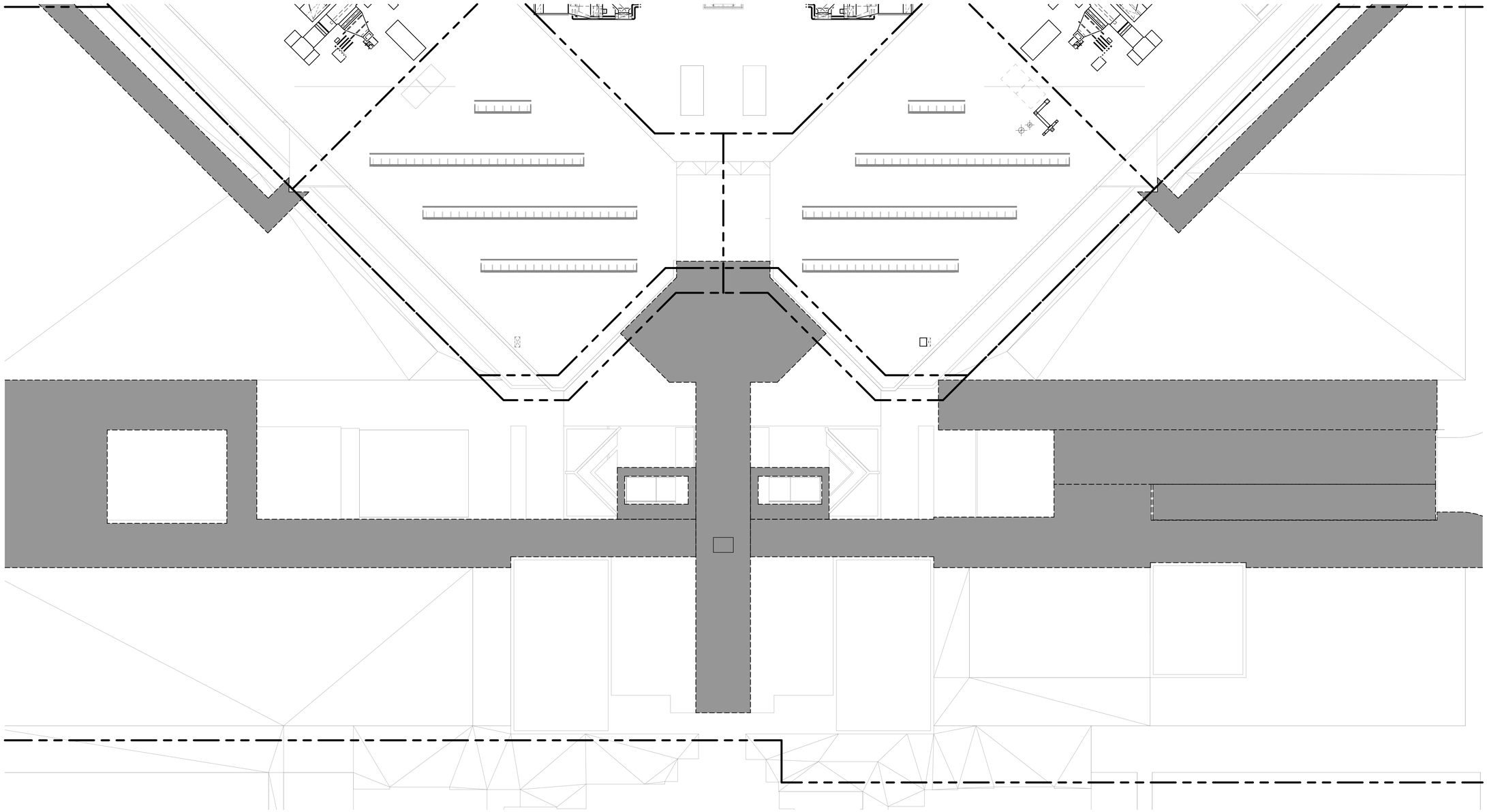
MECHANICAL - LOWER LEVEL 1 - NORTH - SNOW MELT

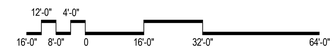
SCALE As indicated

3MX641

Schematic Design



1 HVAC - SNOW MELT SOUTH
1/16" = 1'-0"



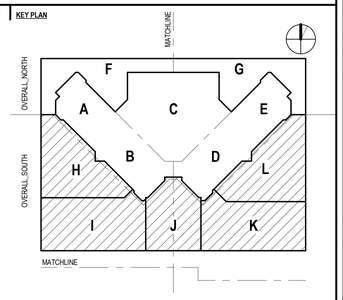
GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

SNOWMELT AREA

KEY PLAN



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MECHANICAL - LOWER LEVEL 1 - SOUTH - SNOW MELT

SCALE As indicated

3MX642

Schematic Design

CHILLER

BASIS OF DESIGN: JCI

UNIT ID.	MODEL NO.	TYPE	LOCATION	CAPACITY (TONS)	KW	FULL LOAD (KW / TON)	NPLV	EVAPORATOR MIN FLOW (GPM)	EVAPORATOR NOMINAL FLOW	EVAPORATOR MAX FLOW (GPM)	EVAPORATOR WPD (FT H2O)	EVAPORATOR EWT (°F)	EVAPORATOR LWT (°F)	COMPRESSOR MOTOR POWER (KW)	COMPRESSOR MOTOR FLA (AMPS)	COMPRESSOR MOTOR LRA (AMPS)	ELECTRICAL VOLTAGE (V)	ELECTRICAL PHASE (Ø)	ELECTRICAL FREQ (HZ)	ELECTRICAL MCA (AMPS)	ELECTRICAL MOCP (AMPS)	CONDENSER FLOW NOMINAL (GPM)	CONDENSER FLOW MIN (GPM)	CONDENSER WPD (FT H2O)	CONDENSER EWT (°F)	CONDENSER LWT (°F)	POWER TYPE	OPERATING WEIGHT (LBS)	NOTES
CH-1	YMC2-S1934AB	WATER COOLED, CENTRIFUGAL	CUP	550	269	0.48	0.316	350	941		14.4	59	45	264	348		460	3	60	436	700	1008		14.1	75	90	S	21736	1 THRU 6
CH-2	YMC2-S1934AB	WATER COOLED, CENTRIFUGAL	CUP	550	269	0.48	0.316	350	941		14.4	59	45	264	348		460	3	60	436	700	1008		14.1	75	90	S	21736	1 THRU 6
CH-3	YMC2-S1934AB	WATER COOLED, CENTRIFUGAL	CUP	550	269	0.48	0.316	350	941		14.4	59	45	264	348		460	3	60	436	700	1008		14.1	75	90	N	21736	1 THRU 6
CH-4	YMC2-S1934AB	WATER COOLED, CENTRIFUGAL	CUP	550	269	0.48	0.316	350	941		14.4	59	45	264	348		460	3	60	436	700	1008		14.1	75	90	N	21736	1 THRU 6
CH-5		WATER COOLED, CENTRIFUGAL	CUP	150					360			65	55				460								75	90	S		1 THRU 7

NOTES:
1. Primary Specification Reference Section 236400.
2. Chiller Has A Two Pass Evaporator And Two Pass Condenser Configuration. Evaporator Water Volume is XXX Gallons.
3. Refrigerant Type Is R-134a. (1354 Pounds Of Refrigerant).
4. Unit Shall Be Complete With Its Own Integral Control And Shall Be Suitable For Connecting To A Building Management System.
5. Unit Shall Be Complete With A Unit Mounted Variable Frequency Drive.
6. Mount On 6" Concrete Pad With Bolts Designed To Withstand Any Chiller Movement Including Seismic Movement. Extend Pad Minimum 4" From Edge Of Equipment.
7. Taps Shall Be Provided In Both The Evaporator And Condenser Bundles For The Condenser Water Head Pressure Control System. The EMS Contractor Shall Provide The Condenser Water Head Pressure Control System. The EMS Contractor Shall Coordinate All Requirements Of This System With The Chiller Manufacturer.
8. Unit Is An Oilless Magnetic Bearing Chiller.
9. While two units are indicated to be on standby, only one unit will run at one time.

POWER TYPE
E = EMERGENCY
S = STAND BY
N = NORMAL

COOLING TOWER SCHEDULE

BASIS OF DESIGN: BAC

UNIT ID	MODEL NO.	LOCATION	CELLS (#)	EWT (°F)	LWT (°F)	FLOW NOMINAL (GPM)	FLOW MAX (GPM)	FLOW MIN (GPM)	TOWER PUMPING HD (psi)	FAN QTY (#)	FAN TOTAL AIRFLOW (CFM)	MOTOR QTY (#)	SPEED (RPM)	POWER (HP)	VOLTAGE (V)	PHASE (Ø)	FREQ (HZ)	SUMP SIZE (GPM)	POWER TYPE	OPERATING WEIGHT (LBS)	NOTES
CT-1	XES3E-1424-07N	ROOF OF HERSCHLER BUILDING ADDITION	1	89.12	75	1,500	2,000	1,050	4.91	1	146,000	1	1750	25	460	3	60		S	34,450	1 THRU 11
CT-2	XES3E-1424-07N	ROOF OF HERSCHLER BUILDING ADDITION	1	89.12	75	1,500	2,000	1,050	4.91	1	146,000	1	1750	25	460	3	60		S	34,450	1 THRU 11
CT-3	XES3E-1424-07N	ROOF OF HERSCHLER BUILDING ADDITION	1	89.12	75	1,500	2,000	1,050	4.91	1	146,000	1	1750	25	460	3	60		N	34,450	1 THRU 11
CT-4	XES3E-1424-07N	ROOF OF HERSCHLER BUILDING ADDITION	1	89.12	75	1,500	2,000	1,050	4.91	1	146,000	1	1750	25	460	3	60		N	34,450	1 THRU 11

NOTES:
1. Primary Specification Reference Section Number 236500.
2. Cooling Tower Configuration Shall Be Induced Draft Counterflow.
3. The Fan Motor Shall Be Invertor Duty Rated and Shall Be Controlled By A Variable Frequency Drive.
4. Performance Is Based On 64°F WB.
5. Unit Shall Include Electric Immersion Heaters Controlled By A Thermostat With Bulb In The Pan.
6. The Tower Shall Be Arranged For Independent Cell Operation By Including Two Flanged Inlet Per Cell (One High and One Low for "Bypass" Operation, One Flanged Bottom Outlet Per Cell, With Full 12 Inch Pipe Size Equalizing Pipe Between All Cells.
7. Unit Shall Be Complete With A Control Panel (Furnished By Unit Manufacturer) Incorporating Main Fused Disconnect Switch, Fused Sub Circuits, One Variable Frequency Drive Per Unit, Heater Contactors, Control Transformer And Necessary Contactor For Electric Water Level Controller.
8. Tower To Be Provided With A Single Power And Control Panel Suitable For Outdoor Installation In NEMA 4 (Stainless Steel) Enclosure. Control Will Consist Of H-O-A Switches, Run Lights, Relays, Manual High / Low Speed Selector Switches, 5 Stage Temperature Controller With Remote Sensing Bulb. Control Circuit To Include Vibration Switch, Sump Heater Control, Electric Water Level Control, Etc.
9. Provide Service Ladder With Protective Cage, OSHA Approved Ladder, Safety Cage, Stairs From The Ground Up To A Landing To Access The Cooling Tower Entranceway.
10. Provide Internal Walkway And Safety Railings For Each Cell. All Safety Railings To Include Four Inch Galvanized Steel Toe Plates.
11. Provide Vibration Isolators With Seismic Restraints.
12. While two units are indicated to be on standby, only one unit will run at one time.

POWER TYPE
E = EMERGENCY
S = STAND BY
N = NORMAL
SEE NOTE 12

PUMP SCHEDULE

BASIS OF DESIGN: ARMSTRONG

UNIT ID	MODEL NO.	APPROXIMATE DIAMETER OF IMPELLER	TYPE	MANUFACTURER	SERVICE	FLOW (GPM)	FLOW MIN (GPM)	TDH (FT. W.G.)	MOTOR SPEED (RPM)	EFFICIENCY (%)	NPSH REQUIRED (FT. W.G.)	MOTOR BHP	MOTOR POWER (HP)	MOTOR VOLTAGE (V)	MOTOR PHASE (Ø)	MOTOR FREQ (HZ)	MOTOR VFD	POWER TYPE	NOTES
CHWP-01	SERIES 4300 0815-060.0		IN-LINE	ARMSTRONG	PRIMARY VARIABL FLOW CHILLED WATER	1200	350	125	1800	69	6		75.0	460	3	60	YES	S	
CHWP-02	SERIES 4300 0815-060.0		IN-LINE	ARMSTRONG	PRIMARY VARIABL FLOW CHILLED WATER	1200	350	125	1800	69	6		75.0	460	3	60	YES	S	
CHWP-03	SERIES 4300 0815-060.0		IN-LINE	ARMSTRONG	PRIMARY VARIABL FLOW CHILLED WATER	1200	350	125	1800	69	6		75.0	460	3	60	YES	S	STAND BY PUMP
CHWP-03	SERIES 4300 0815-060.0		IN-LINE	ARMSTRONG	PRIMARY VARIABL FLOW CHILLED WATER	1200	350	125	1800	69	6		75.0	460	3	60	YES	S	
ACHWP-01	SERIES 4380 4x4x6	6.2"	IN-LINE	ARMSTRONG	CHW AIR SEPERATOR (SIDESTREAM)	240	240	10.5	1200	81	9		1.0	460	3	60	NO	N	
AHWP-01	SERIES 4380 1.5x1.5x6	5.25"	IN-LINE	ARMSTRONG	HW AIR SEPERATOR (SIDESTREAM)	32	32	16	1800	38	6		0.5	460	3	60	NO	N	
CWP-01	SERIES 4300 8x8x15		IN-LINE	ARMSTRONG	CONDENSER WATER	1500	1000	110	1800	79	9		60	460	3	60	YES	S	
CWP-02	SERIES 4300 8x8x15		IN-LINE	ARMSTRONG	CONDENSER WATER	1500	1000	110	1800	79	9		60	460	3	60	YES	S	NOTE 2
CWP-03	SERIES 4300 8x8x15		IN-LINE	ARMSTRONG	CONDENSER WATER	1500	1000	110	1800	79	9		60	460	3	60	YES	S	
CWP-04	SERIES 4300 8x8x15		IN-LINE	ARMSTRONG	CONDENSER WATER	1500	1000	110	1800	79	9		60	460	3	60	YES	S	
PHWP-1	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-2	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-3	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-4	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-5	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-6	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	DUTY
PHWP-7	4300 0408-005.0	8.03	IN-LINE	ARMSTRONG	PRIMARY HOT WATER	378	75	25		79			5	460	3	60	NO	S	STANDBY
SHWP-1	4300 0408-007.5	7.74	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO HX	555		35	1800	74			7.5	460	3	60	YES	S	DUTY
SHWP-2	4300 0408-007.5	7.74	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO HX	555		35	1800	74			7.5	460	3	60	YES	S	DUTY
SHWP-3	4300 0408-007.5	7.74	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO HX	555		35	1800	74			7.5	460	3	60	YES	S	STANDBY
SHWRP-1	4300 0611-025.0	10.65	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO REHEAT	670		85		83			25	460	3	60	YES	S	DUTY
SHWRP-2	4300 0611-025.0	10.65	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO REHEAT	670		85		83			25	460	3	60	YES	S	DUTY
SHWRP-3	4300 0611-025.0	10.65	IN-LINE	ARMSTRONG	SECONDARY HOT WATER TO REHEAT	670		85		83			25	460	3	60	YES	S	STANDBY
SHWGP-1	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	PREHEAT HOT WATER 40% P. G.	315		75		75			15	460	3	60	YES	S	DUTY
SHWGP-2	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	PREHEAT HOT WATER 40% P. G.	315		75		75			15	460	3	60	YES	S	DUTY
SHWGP-3	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	PREHEAT HOT WATER 40% P. G.	315		75		75			15	460	3	60	YES	S	STANDBY
SMHWP-1	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	SNOW MELT SYSTEM 40% P.G.	350		95		76			15	460	3	60	YES	S	DUTY
SMHWP-2	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	SNOW MELT SYSTEM 40% P.G.	350		95		76			15	460	3	60	YES	S	DUTY
SMHWP-3	4300 0306-015.0	6.19	IN-LINE	ARMSTRONG	SNOW MELT SYSTEM 40% P.G.	350		95		76			15	460	3	60	YES	S	STANDBY

NOTES:
1. Primary Specification Reference Section is 232123.
2. While Pump is Indicated To Be On Stand By Power, It will Not Run Unless the Other Similar Pump Has Failed.

POWER TYPE
E = EMERGENCY
S = STAND BY
N = NORMAL

AIR SEPARATOR SCHEDULE

BASIS OF DESIGN: BELL & GOSSETT

UNIT ID	MODEL NO.	SERVICE	TYPE	FLOW (GPM)	W.P.D. (FT.)	FITTING TYPE	SHIP WEIGHT (LBS)	OPER. WEIGHT (LBS)	NOTES
ASP-01	R-4F	CHILLED WATER	TANGENTIAL	240	1.0	FLANGE	155	265	1
ASP-02	R-2N	HOT WATER	TANGENTIAL	32	0.3	THREADED	50	65	1

NOTES:
1 Primary Specification Reference Number 232116.

EXPANSION TANK SCHEDULE

BASIS OF DESIGN: TACO

UNIT ID	MODEL NO.	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	TANK DIMENSIONS DIAMETER (IN)	TANK DIMENSIONS HEIGHT (IN)	WEIGHT (LBS)	NOTES
EXT-1	CA-500	CHILLED WATER	132	132	24	86	420	1 THRU 5
EXT-2	CA-500	CHILLED WATER	132	132	24	86	420	1 THRU 5
EXT-3	CA-450	HOT WATER	119	119	24	78	400	1 THRU 5
EXT-4	CA-450	HOT WATER	119	119	24	78	400	1 THRU 5
EXT-5	CBX-15	GLYCOL HW SYSTEM	4	2	14	15	45	1 THRU 4

NOTES:
1. PRIMARY SPECIFICATION REFERENCE SECTION NUMBER 232116.
2. UNIT SHALL BE PRE-CHARGED TO 20 PSI (ADJUSTABLE).
3. PROVIDE SEISMIC RESTRAINTS OPTION.
4. EXPANSION TANK SHALL BE BUTYL RUBBER BLADDER TYPE.
5. MOUNT UNIT ON HOUSEKEEPING PAD

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP PLAN ARCHITECTS

LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER
ORIGINAL ISSUE 07/10/14 -
PKG. IDENTIFIER

MECHANICAL SCHEDULES 1

SCALE 12" = 1'-0"

3MX651

Schematic Design

HYDRONIC UNIT HEATER SCHEDULE

UNIT ID	MODEL NUMBER	UNIT SIZE	TYPE	BTUH 180 EWT	GPM	CFM HI/LO	RPM HI/LO	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MOTOR HZ	ACCESSORIES	REMARKS

NOTES:

1. Selections Based On Sterling, 180 Deg EWT, 160 Deg LWT.
2. Coils Shall Be Constructed Of 0.008" Thick Aluminum Fins Mechanically Bonded To 5/8" OD Expanded Copper Tubes.
3. Cabinets Shall Be Constructed Of Minimum 18 Gauge Steel. Finish And Color Shall Be As Selected By Architect.
4. Motors Shall Be Permanent Split Capacitor Type. Provide Disconnect.
5. Units Shall Have Built-In Thermal Overload Protection.

Accessories

1. Filters
2. Return Air Thermostat
3. Remote Thermostat
4. Variable Speed Switch

HOT WATER BOILER SCHEDULE

BASIS OF DESIGN: AERCO

UNIT ID	MODEL NO.	RATING (BHP)	HEATING CAPACITY INPUT (MBH)	HEATING CAPACITY OUTPUT (MBH)	HEATING CAPACITY FUEL	FLOW DESIGN (GPM)	EWT (°F)	LWT (°F)	P.D. (FT W.G.)	WATER CONTENT (GALLONS)	FLUE DIAM (IN)	COMB. AIR DIAMETER (IN)	ELECTRICAL VOLTAGE (V)	ELECTRICAL PHASE ()	ELECTRICAL FREQ (HZ)	ELECTRICAL POWER TYPE	WEIGHT SHIP / OPER. (LBS)	NOTES
B-1	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-2	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-3	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-4	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-5	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-6	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10
B-7	BMK 6000	154.2	6,000	5,670	NATURAL GAS	378	120	150	5.6	110	14	14	460	3	60	S	3000 / 3920	1 THRU 10

NOTES:

1. Primary Specification Reference Section No. 235216.
2. Boilers System Shall Fire Additional Boiler Modules To Maintain The Constant Discharge Water Temperature Specified Above.
3. Provide Control Modules On Each Boiler For DDC Compatibility.
4. Boiler System Shall Operate On Boiler Modules Operating With A Lead / Lag Controller.
5. Install Sucurely to Floor With Bracing. Refer to the Specifications For Further Details.
6. Install As Per Manufacturer's Recommendation And As Shown In Boiler Piping Diagram. Provide Disconnect Switch. Coordinate With Electrical Contractor For Wiring.
7. Provide Condensate Trap At Floor Level And Pipe To Floor Drain.
8. Boilers Shall Be Sealed Combustion. Provide Interlock To Motor Operated Damper On Combustion Air Intake Damper.
9. Provide Wall Mounted Boiler Control Panel.
10. Provide 4" High Concrete Housekeeping Pad.
11.

POWER TYPE
E = EMERGENCY
S = STAND BY
N = NORMAL

PLATE & FRAME HEAT EXCHANGER

BASIS OF DESIGN: ALFA LAVAL

UNIT ID	MODEL NO.	SERVICE	LOCATION	SYSTEM AFFECTED	COLD SIDE FLOW (GPM)	COLD SIDE MIN FLOW (GPM)	COLD SIDE FLUID	COLD SIDE EWT (°F)	COLD SIDE LWT (°F)	COLD SIDE TAU	COLD SIDE P.D. (FT. WG.)	HOT SIDE FLOW (GPM)	HOT SIDE MIN FLOW (GPM)	HOT SIDE FLUID	HOT SIDE EWT (°F)	HOT SIDE LWT (°F)	HOT SIDE TAU	HOT SIDE P.D. (FT. W.G.)	# OF PLATES (ACTUAL/MAX)	APPROACH TEMP. (DEGREE F)	SURFACE AREA SQ. FT.	GASKET MATERIAL	PLATE MATERIAL	PLATE THICKNESS (MM)	NOZZLE DIA. (INCHES)	WEIGHT (LBS) (EMPTY/OPER.)	NOTES
HX CH-1	AQ6-FG	FREE WINTER COOLING	CUP	CHILLED WATER / COND. WATER	1,500	1,100	WATER	44	52.3	40	20.6	1,200	325	WATER	60	48	31	10.4	297 / 334	4	1969	NBRB	AISI 304	0.4	12	3760/4770	1-3
HX CH-2	AQ6-FG	FREE WINTER COOLING	CUP	CHILLED WATER / COND. WATER	1,500	1,100	WATER	44	52.3	40	20.6	1,200	325	WATER	60	48	31	10.4	297 / 334	4	1969	NBRB	AISI 304	0.4	12	3760/4770	1-3
HX CH-3	AQ6-FG	FREE WINTER COOLING	CUP	CHILLED WATER / COND. WATER	1,500	1,100	WATER	44	52.3	40	20.6	1,200	325	WATER	60	48	31	10.4	297 / 334	4	1969	NBRB	AISI 304	0.4	12	3760/4770	1-3
HX HW-1	M15-BFG	PREHEAT HOT WATER	CUP	PREHEAT / HOT WATER	840		40% PG	110	140		17.3	800		WATER	150	120		15	221 / 260	10	1461.5	NBRP	AISI 304	0.4	6	3280 / 4030	
HX HW-2	M15-BFG	PREHEAT HOT WATER	CUP	PREHEAT / HOT WATER	840		40% PG	110	140		17.3	800		WATER	150	120		15	221 / 260	10	1461.5	NBRP	AISI 304	0.4	6	3280 / 4030	
HX HW-3	M15-BFG	PREHEAT HOT WATER	CUP	PREHEAT / HOT WATER	840		40% PG	110	140		17.3	800		WATER	150	120		15	221 / 260	10	1461.5	NBRP	AISI 304	0.4	6	3280 / 4030	
HX HW-4	M10-MFG	SNOW MELT HOT WATER	CUP	SNOW MELT / HOT WATER	400		40% PG	70	100		17.1	380		WATER	150	120		13.7	55 / 86	50	125.5	NBRP	AISI 304	0.4	4	875 / 994	
HX-HW-5	M10-MFG	SNOW MELT HOT WATER	CUP	SNOW MELT / HOT WATER	400		40% PG	70	100		17.1	380		WATER	150	120		13.7	55 / 86	50	125.5	NBRP	AISI 304	0.4	4	875 / 994	
HX HW-6	M10-MFG	SNOW MELT HOT WATER	CUP	SNOW MELT / HOT WATER	400		40% PG	70	100		17.1	380		WATER	150	120		13.7	55 / 86	50	125.5	NBRP	AISI 304	0.4	4	875 / 994	
HX HW-7	AQ2-FG	DOMESTIC HOT WATER	CUP	DOM HW / HOT WATER	110		WATER	100	140		16.9	150		WATER	150	120		9.5	85 / 95	14	134	NBRP	AISI 316	0.5	2	433 / 488	
HX HW-8	AQ2-FG	DOMESTIC HOT WATER	CUP	DOM HW / HOT WATER	110		WATER	100	140		16.9	150		WATER	150	120		9.5	85 / 95	14	134	NBRP	AISI 316	0.5	2	433 / 488	

NOTES:

1. Primary Specification Reference Number 235700.
2. Unit Shall Be Provided With Structural Framing For Floor Mounting. Unit Shall Be Supported From The Floor In Accordance With Vibration And Seismic Specification Section.
3. Provide Stainless Steel Drip Pan Beneath Each Unit. Pan To Be Continuous Under The Unit And Have 2 Inch Upturned Welded Sides With 3/4" Threaded Drain Connection.
4. Unit To Be AHRI Rated, Commercial Units Are Not Acceptable

WATER FILTRATION SYSTEM SCHEDULE

BASIS OF DESIGN: SONITEC

UNIT ID.	MODEL NO.	PROCESS STREAM	QUANITY OF VESSELS	FLOW RATE (GPM)	FLOW RATE (GPH)	PUMP (HP)	SYSTEM CAPACITY (GALS)	TURN-OVER TIME (HRS)	NOMINAL EXTRACTION	TOTAL SUSPENED SOLIDS REDUCTION	BACKWASH WATER DATA: WATER SOURCE	BACKWASH WATER DATA: FLOW RATE PER VESSEL (GPM)	BACKWASH WATER DATA: DURATION (MIN.)	BACKWASH WATER DATA: MINIMUM PRESSURE (PSIG)	BACKWASH WATER DATA: MAXIMUM PRESSURE (PSIG)	ELECTRICAL DATA: VOLTAGE (V)	ELECTRICAL DATA: PHASE ()	ELECTRICAL DATA: FLA (AMPS)	OVERALL DIMENSIONS: LENGTH (FT.-IN.)	OVERALL DIMENSIONS: WIDTH (FT.-IN.)	OVERALL DIMENSIONS: HEIGHT (FT.-IN.)	WEIGHT (LBS.) (OPERATING)	NOTES
CWF-CP-01	VORTISAND AWT 3-30-SP (SKID MOUNTED)	CONDENSER WATER	3	300	18000	10	42000	1.1	0.45	90% / Pass	DOM. WATER	50	8	30	70	460	3		9'-4"	4'-0"	6'-4"	9378	1 THRU 9

NOTES:

1. Primary Specification Reference Number 232500.
2. Unit Shall Be Furnished With The Following:
   - A) Type 304, Stainless Steel Filter Vessels Built According To ASME Standards.
   - B) Water Circulation Pump, Cast Iron Body-Centrifugal Type @ 50 Ft. Head.
   - C) An Automatic Flow Controller (Griswold) To Control The Backwash Flow Rate.
   - D) An Automatic Control Panel.
   - E) One Day Of On-Site Assembly Supervision.
   - F) Two Days Of Start-Up And Personnel Training.
   - G) Two, 3" Sand Traps.
3. The Automatic Control Panel Shall Include The Following:
   - A) NEMA 12 Enclosure.
   - B) Programmable Logic Controller (Omron PLC And Cimrex - Compatible With and Interfacing With Johnson Controls EMS Virtual Network).
   - C) Differential Pressure Switch.
   - D) Low Voltage Electric Actuated Ball Valves Controlling Backwash Water Flow.
   - E) Backwash Counter.
   - F) Motor Starter Package For Condenser Water Circulation Pump.
   - G) An Alarm For Pump And Valve Malfunction (2 N.O. 'Dry' Contacts).
   - H) Sand Trap Alarms.
4. Under Normal Conditions, The Backwash Cycle Shall Be Started / Stopped By The Differential Pressure Sensor. This Sensor Sends A Signal The Stager That Operates The Valve Sequence. If The System Has Not Stored Enough Contaminants To Activate The Pressure Sensor, The PLC Will Force The System Into Backwash Cycle, Minimizing The Possibility Of Bacteria And Algae Build-Up Within The Vessel.
5. The Backwash Cycle For Each Vessel Shall Be Staggered By The PLC So That All Vessels Do Not Backwash Simultaneously. A Minimum Of 30 Minutes Shall Elapse Between The Backwash Cycles OF Each Vessel. This Interval Shall Be Adjustable In The Field.
6. Vendor Shall Coordinate With The Contractor The Extent Of Field Assembly Required For The Complete Installation Of The Condenser Water Filter assembly. This Condition Shall Take Place Before The Submittal Of The Contractors Quote.
7. Vendor Shall Provide Adjustable Pressure Reducing Valve On Cold Water Make-Up Line.
8. Unit Shall Be Provided With A Main Disconnect Switch.
9. Filtration Unit Scheduled Is Located Inside the Chilled Water Mechanical Room of the Central Plant.

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

State of Wyoming

Administration & Information
Construction Management

Capitol Square
Rehabilitation and Restoration

HDR PDP

LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER
ORIGINAL ISSUE 07/10/14 -
PKG. IDENTIFIER

MECHANICAL SCHEDULES 2

SCALE 12" = 1'-0"

3MX652

Schematic Design

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FAN COIL UNIT SCHEDULE

BASIS OF DESIGN: JOHNSON CONTROLS

UNIT ID	AREA SERVED	MODEL NO.	SIZE	TOTAL AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	E.S.P. IN. WG.	VENTILATION			CHILLED WATER COOLING COIL												HYDRONIC HEATING COIL							ELECTRICAL						NOTES
							AIRFLOW (CFM)	DB (°F)	WB (°F)	TOTAL (MBH)	SENS (MBH)	TOTAL CAP (MBH. ACTUAL)	SENS CAP (MBH. ACTUAL)	EAT (DB) (°F)	EAT (WB) (°F)	LAT (DB) (°F)	LAT (WB) (°F)	A.P.D. (In. W.G.)	ROWS	CONTROL VALVE	FLOW (GPM)	TOTAL (MBH)	EAT (°F)	LAT (°F)	A.P.D. (In. W.G.)	ROWS	CONTROL VALVE	FLOW (GPM)	MOTOR QTY	MOTOR (HP)	VOLTAGE (V)	PHASE (/)	FREQ (HZ)	WEIGHT (LBS)	
FCU-CP-01	Cup Connector Room	AVI	20	2,000	2,000	0.75	300	65	54	43.0	40.0	49.2	39.3	75.0	63.0	57.2	54.7	0.3	4		7.0	65.1	65	95	0.1	2		4.0	1	1	460	3	60	327	1 THRU 8
FCU-CN-01	Connector Catering Kitchen	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-02	Connector Service Corridor	FNP		500										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-03	Connector Committee Room 135	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-04	Connector Committee Room 134	AVI		2,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-05	Connector West Breakout Area	FNP		1,400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-06	Connector Session Staff West 136	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-07	Connector Central Corridor	FNP		1,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-08	Connector Offices 148, 149, 150	FNP		600										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-09	Connector Offices 145, 146, 147	FNP		600										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-10	Connector Offices 142, 143	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-11	Connector Security 210, 211	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-12	Connector Offices 140, 141	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-13	Connector Security 212, 213	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-14	Connector Offices 139, 144	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-15	Connector Security 214	FNP		400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-16	Connector Session Staff East 137	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-17	Connector East Break Out Area	FNP		1,400										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-18	Connector Committee Room 2	AVI		2,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-19	Connector Committee Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-20	Connector Maintenance Work Room	FNP		1,600										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-21	Connector Corridor Middle Area	FNP		1,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-22	Connector West Toilet	FNP		900										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-23	Connector East Toilet	FNP		900										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-24	Connector Elevator Lobby	FNP		1,100										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-25	Connector Elevator Lobby	FNP		1,100										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-26	Connector Capitol Club	FNP		1,500										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-27	Connector Capitol Club	FNP		1,500										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-28	Connector Media Room	FNP		1,500										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-29	Connector Media Room	FNP		1,500										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-30	Connector North Corridor	FNP		1,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-31	Connector Vending Sitting	FNP		1,800										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-32	Connector Corridor South Area	FNP		1,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-33	Service Corridors 154 # 216	FNP		750										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-CN-34	Connector Corridor North Area	FNP		1,200										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-1	High Voltage Main Electrical Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-2	High Voltage Main Electrical Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-3	High Voltage Main Electrical Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-4	Low Voltage Main Electrical Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-5	Low Voltage Main Electrical Room	AVI		2,000										75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-6	HERSCHLER WEST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-1-7	HERSCHLER WEST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-1-8	HERSCHLER ADDITION AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-1-9	HERSCHLER ADDITION ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-1-10	HERSCHLER ADDITION CLOSET WEST	FNP		1,000			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-11	HERSCHLER ADDITION CLOSET EAST	FNP		1,000			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4				65	95	0.1	2									
FCU-H-1-12	HERSCHLER EAST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-1-13	HERSCHLER EAST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-1	HERSCHLER WEST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-2	HERSCHLER WEST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-3	HERSCHLER ADDITION AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-4	HERSCHLER ADDITION ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-5	HERSCHLER EAST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-2-6	HERSCHLER EAST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-1	HERSCHLER WEST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-2	HERSCHLER WEST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-3	HERSCHLER ADDITION AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-4	HERSCHLER ADDITION ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-5	HERSCHLER EAST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-3-6	HERSCHLER EAST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-1	HERSCHLER WEST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-2	HERSCHLER WEST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-3	HERSCHLER ADDITION AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-4	HERSCHLER ADDITION ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-5	HERSCHLER EAST AV ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							
FCU-H-4-6	HERSCHLER EAST ELECT ROOM	FNP		600			N / A	N / A	N / A					75.0	63.0	57.2	54.7	0.3	4			N / A	N / A	N / A	N / A	N / A	N / A	N / A							

NOTES:

1. Primary Specification Reference Section 238219.
2. Hot Water - 160 Deg. F EWT, 120 Deg. F LWT, Chilled Water - 42 Deg. F EWT, 58 Deg. F LWT.
3. Space Temperature: 75 Deg. F For All Spaces
4. All Heating Coils Are To Be Placed In The Reheat Position.
5. All Fan Coil Unit Motors to Be ECM Type (Variable Speed Capable) Except For Model AVI Units Which Shall Have A VFD.
6. Model AHI And AVI Fan Coil Units. These Units Shall ALL Be Single Zone VAV Systems And Be Controlled As Such.
7. All Units Are To Be Controlled By The Energy Management System (DDC System).
8. All CHW And HW Control Valves Are To Be 2-Way Unless Scheduled Above.
9. Unit To Be Provided With VFD That Shall Be Field Mounted And Wired Into FCU. Unit Shall Be A Single Zone VAV System And Be Controlled As Such.

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1	10/30/2014	SD OWNER REVIEW

PROJECT NUMBER
ORIGINAL ISSUE 07/10/14 -
PKG. IDENTIFIER

MECHANICAL SCHEDULES 3

SCALE 1/2" = 1'-0"

3MX653

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HEAT RECOVERY UNIT SCHEDULE

UNIT ID	MODEL NO.	AREA SERVED	SUPPLY FAN					EXHAUST FAN					COOLING COIL													HEATING COIL										ELECTRICAL					WEIGHT	NOTES
			SUPPLY AIR (CFM)	SUPPLY AIR INCL. PURGE AIR	E.S.P. (IN. W.G.)	T.S.P. (IN. W.G.)	MOTOR (IN. W.G.)	EXH. AIR (CFM)	EXH.AIR INCL. PURGE AIR	E.S.P. (IN. W.G.)	T.S.P. (IN. W.G.)	MOTOR (HP)	TOTAL (MBH)	SENS (MBH)	FLOW (GPM)	CONTROL VALVE	WPD (FT)	APD (IN. W.G.)	VELOCITY (FPM)	ROWS	FPI	EAT DB	EAT WB	LAT DB	LAT WB	TOTAL (MBH)	FLOW (GPM)	CONTROL VALVE	WPD (FT)	APD (IN)	ROWS	FPI	EAT (°F)	LAT (°F)	VOLTAGE (V)	PHASE (I)	FREQ (HZ)	MCA (A)	MOCP (A)	(LBS)	
																TYPE						(°F)	(°F)	(°F)	(°F)			TYPE													
HRU-H-01	VPH - 18	Connector West Offices	10,000	10,425	1.5	4.1	10	9,000	9,425	1.5	3.4	10				2-WAY			369.7	6	10	77.5	63.1	55.7	55.1			2-WAY					51.5	72	460	3	60				1 THRU 11
HRU-H-02	VPH - 09	Connector East Offices	6,000	6,740	1.5	3.4	7.5	5,000	5,740	1.5	2.9	7.5				2-WAY			293.3	6	10	78.4	63	55	54.4			2-WAY					48.5	72	460	3	60				1 THRU 11
HRU-H-03	EPH-43	Herschler West Offices	40,000		2.0					1.75			N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									460	3	60				
HRU-H-04	EPH-13	Herschler Addition West Offices	10,000		2.0					1.75			N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									460	3	60				
HRU-H-05	EPH-13	Herschler Addition East Offices	10,000		2.0					1.75			N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									460	3	60				
HRU-H-06	EPH-43	Herschler East Offices	40,000		2.0					1.75			N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									460	3	60				

NOTES:

1	Selection Is Based On Package Dual Energy Recovery Wheel Indoor Units As Manufactured By SEMCO.
2	Unit To Be Complete Package Including Microprocessor Based DDC Controls And Shall Be Suitable To Interface With Centralized Building Automation System.
3	Provide Variable Frequency Drive On Supply, Exhaust Fans and Both Energy Recovery Wheels.
6	Units Shall Be Of Double Wall Construction. Units Shall Be Complete With Side Outlet Drain, Access Doors And Lights.
7	Maximum Air Velocity Thru Cooling Coil Shall Not Exceed 500 Feet Per Minute.

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PKG. IDENTIFIER

MECHANICAL SCHEDULES 4

SCALE 1/2" = 1'-0"

3MX654

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FAN SCHEDULE

UNIT ID	MODEL NO.	TYPE	LOCATION	DRIVE	AIRFLOW MAX (CFM)	AIRFLOW MIN (CFM)	FAN SPEED	S.P. (IN. W.G.)	MOTOR POWER (HP)	VOLTAGE (V)	PHASE ()	FREQ (HZ)	POWER TYPE	VFD	SERVICE
EF-CP-1		CENTRIFUGAL - UTILITY SET	Herschler Roof	BELT	11,400	2,850		2.5		460	3	60	E	YES	CHILLER ROOM REFERIGANT PURGE FAN
EF-CP-2		IN_LINE MIXED FLOW	CUP	BELT	18,000	4,500		1.75		460	3	60	N	YES	BOILER ROOM EXHAUST/RELIEF
EF-CP-3		IN-LINE	CUP	BELT	400	400		1.25		115	1	60	N	NO	MECHANICAL SHOP - CENTRAL PLANT

NOTES:

1. Primary Specification Reference Section .
2. All Motors Under 1/2 HP Shall Be 120V, 1 Phase. All Motors 1/2 HP And Over Shall Be 460V, 3 Phase.
3. All Belt Driven Fans Shall Have Adjustable Sheave / Variable Pitch Motor Pulleys.
4. Motors Shall Be Premium Efficiency.
5.
6. For All Direct Drive Fans With VFD's No VFD Bypass Will Be Permitted.
7.

LEGEND:

TEF = Toilet Exhaust Fan
GEF = General Exhaust Fan
REF = Return Exhaust Fan
SEF = Smoke Exhaust Fan

POWER TYPE

E = EMERGENCY
S = STAND BY
N = NORMAL

FUEL OIL PUMP SCHEDULE

UNIT ID	MODEL NO.	TYPE	SERVICE	GPH (Each Pump)	DISCHARGE PRESS (PSI)	PUMP RPM	MOTOR HP	MOTOR VOLTS	MOTOR PHASE	MOTOR VFD	POWER TYPE	NOTES
FOP-1A & 1B	ATPS-204-208-100	AUTOMATIC FUEL OIL TRANSFER PUMP SET	ELECTRICAL GENERATORS	700	100	1140	1.5	460	3	NO	S	1 THRU 8

NOTES:

1. Unit Selection Based On Preferred Utilities.
2. Pumps are base mounted on a factory fabricated skid in a duplex pumping arrangement complete with control panel
3. Motors are TEFC
4. Connection Sizes: Inlet is 1-1/2 inches, Outlet is 1-1/2 inches and relief valve is 3/4 inch
5. Provide Pump Set Leak Detection Switch
6. Provide Building Automation System (BAS) Discrete Output Contacts
7. System Based Upon No. 2 Fuel Oil

POWER TYPE

E = EMERGENCY
S = STAND BY
N = NORMAL

MAKE UP AIR HANDLING UNIT SCHEDULE — BASIS OF DESIGN: BUFFALO

UNIT ID	SERVICE	AREA SERVED	SUPPLY FAN (Typ. for 2) TOTAL CFM	MIN OA CFM	TYPE	SIZE	TSP IN. W.G.	MOTOR RPM	MOTOR HP	HOT WATER HEATING COIL TOTAL MBH	NO. ROWS	FINS PER INCH	GPM	EAT	LAT	EWT	LWT	VELOCITY (FPM)	APD	ELECTRICAL VOLTS	PHASE	HERTZ	POWER TYPE	REMARKS
MAU-1	BOILER COMBUSTION AIR	CHILLER ROOM	18,000	1,000	PLENUM		1.75	1800		936			50	0	65	160	120			460	3	60	S	1 THRU 8
MAU-2	CHILLER ROOM VENTILATION	BOILER ROOM	11,400	1,000	PLENUM		1.75	1800		593			30	0	65	160	120			460	3	60	S	1 THRU 8

NOTES:

1. Unit Selection Dimensions 63" H, 132" W, 84" long (hot water coil and fan)
2. Fan motor to have VFD control
3. Units Shall Be Supplied As Double Wall Construction
4. Units Shall Be Supplied With VFD, Disconnect Switch And DDC Control Interface Capability.
5. Unit Will Be Conctructed (In The Path Of Airflow) Of The Following Sections: Intake / Mixing Box, Filter Section (2 inch thick MERV 8 and 6 Inch Cartridge MERV 13), Hot Water - Glycol - Heating Coil Section, Fan Section.
6. Provide 6 inch Base Rail Under Entire Length Of Unit. Base Rail Shall Be Supported On Spring Type Vibration Isolators and supported from roof rafters
7. Provide Duct Mounted Smoke Detector at inlet to the unit.
8. Installation Shall Provide For Required Access To Maintain Unit.

POWER TYPE

E = EMERGENCY
S = STAND BY
N = NORMAL

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MECHANICAL SCHEDULES 5

SCALE 12" = 1'-0"

3MX655

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VARIABLE AIR VOLUME UNIT SCHEDULE

UNIT ID	MODEL NO.	LOCATION	INLET (IN)	AIR FLOW MAX (CFM)	AIR FLOW MIN (CFM)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	HOT WATER COIL CAPACITY (MBH)	HOT WATER COIL FLOW (GPM)	HOT WATER COIL APD (FT. W.G.)	HOT WATER COIL WPD (FT. W.G.)	HOT WATER COIL ROWS QTY	WEIGHT (LBS)	NOTES
VAV-H-1-1	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-2	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-3	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-4	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-5	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-6	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-7	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-8	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-9	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-10	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-11	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-12	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-13	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-14	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-15	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VQV-H-1-16	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-17	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-18	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-19	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-20	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-21	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-22	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-23	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							
VAV-H-1-24	DESV	1st Floor Addition Conf. Rm.		500		55	105	160	130							

NOTES:

1. Selection Based On Equipment Manufactured By Titus.
2. Unless Otherwise Noted, Box Minimum CFM Shall Be At 30% Of The Maximum CFM Indicated.
3. Indicated Terminal Boxes Shall Be Complete With Hot Water Coil, Furnished And Installed By The Box Manufacturer At The Factory.
4. Boxes Shall Be Pressure Independent Type, Suitable For Direct Digital Control And Complete With Disconnect Switch, Cross Flow Sensors, Factory Mounted And Wired 24V AC Transformer.
5. Maximum Water P.D. Through Coil Shall Be 5'-0".
6. The Automatic Temperature Control Contractor Will Supply The Direct Digital Control Package (Including Actuator) To The Box Manufacturer's Factory For Factory Mounting.
7. VAV Boxes Shall Be Single Duct Type.

GENERAL NOTES | CONSTRUCTION NOTES | GRAPHIC LEGEND | KEY PLAN

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MECHANICAL SCHEDULES 6

SCALE 12" = 1'-0"

3MX656

Schematic Design

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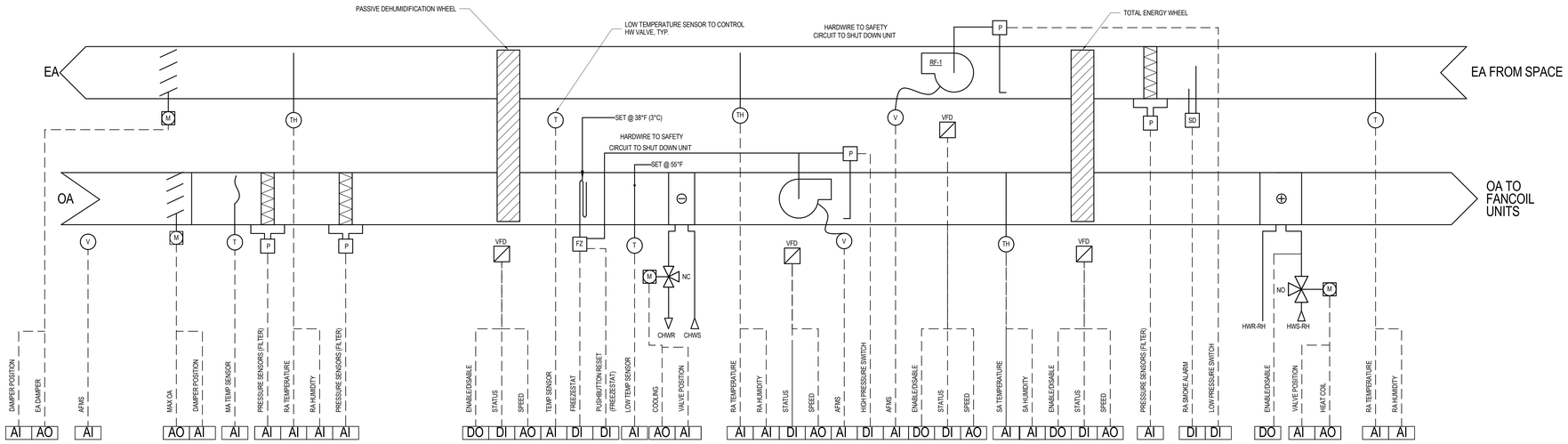
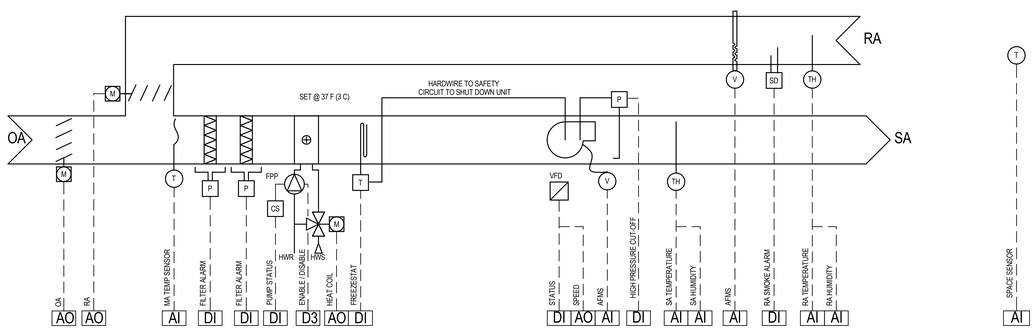


1 HRU-1
NOT TO SCALE

NOTE:
1. EQUIPMENT WITH VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED
2. CONFIRM POINTS AVAILABLE AS PART OF THE FACTORY CONTROLS, IF NOT AVAILABLE THE PROVIDE.
3. PROVIDE INTERFACE TO BUILDING MANAGEMENT SYSTEM.



1 HV FOR BOILER ROOM & CHILLER ROOM
NOT TO SCALE

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CONTROLS DIAGRAMS 1

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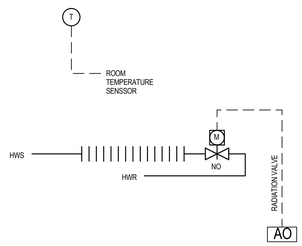
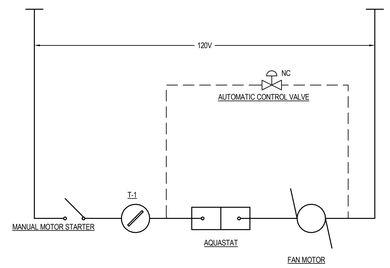
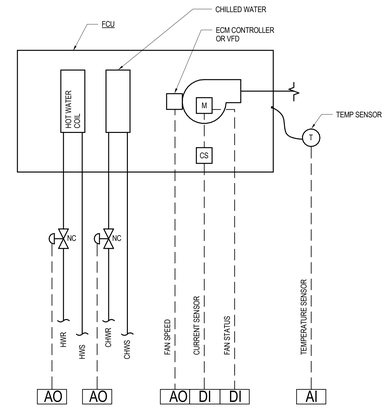


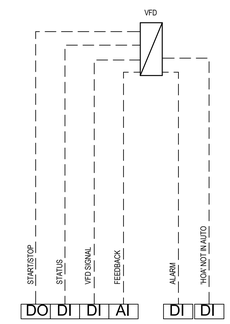
1 FIN TUBE RADIATION
NOT TO SCALE



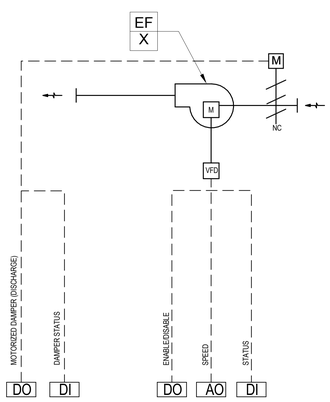
2 UNIT HEATER CONTROL
NOT TO SCALE



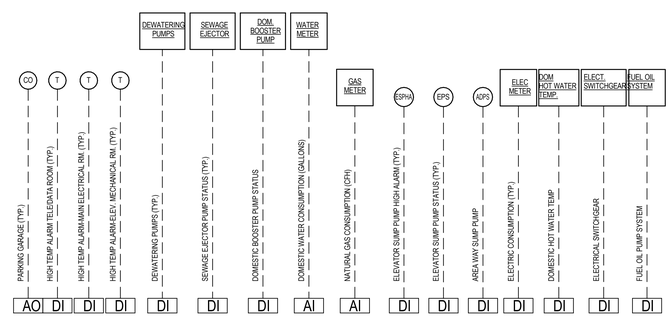
3 FAN COIL UNIT
NOT TO SCALE



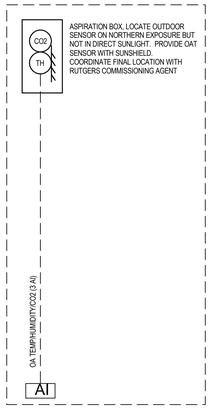
4 VFD UNIT
NOT TO SCALE



5 EXHAUST FAN
NOT TO SCALE



6 ADDITIONAL BMS POINTS
NOT TO SCALE
NOTE:
1. GAS METER BY PLUMBING CONTRACTOR
2. WATER METER BY PLUMBING CONTRACTOR
3. ELECTRIC METERS BY ELECTRICAL CONTRACTOR



7 GLOBAL O.A. TEMP / HUMID DETAIL
NOT TO SCALE

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CONTROLS DIAGRAMS 2

SCALE 12" = 1'-0"

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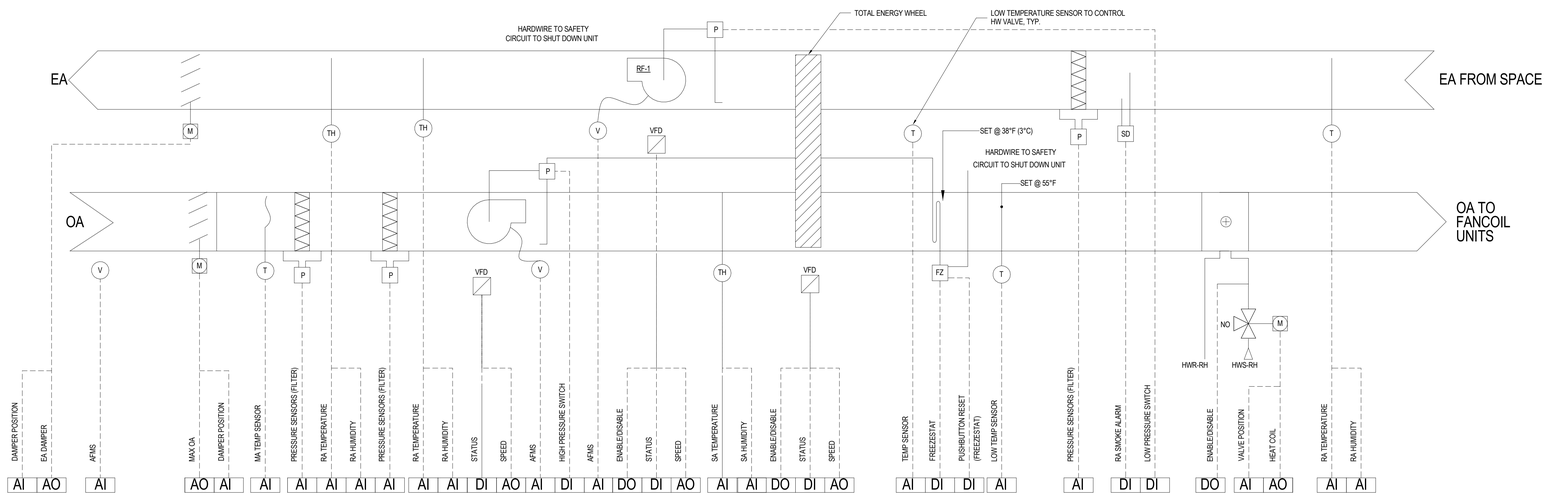
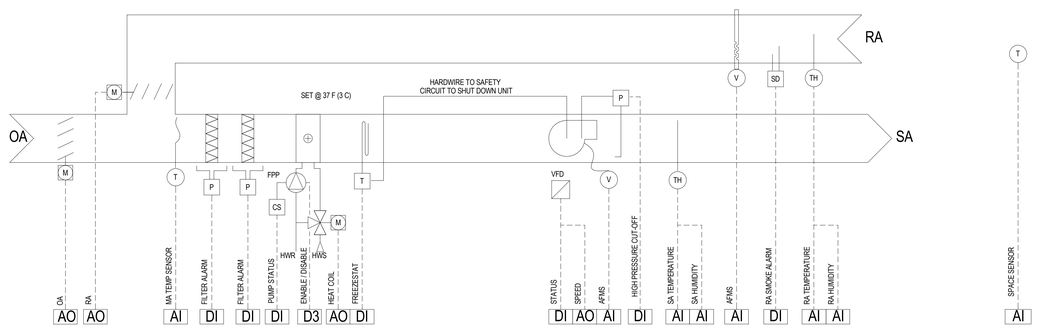


1 HRU-1
NOT TO SCALE

NOTE:
1. EQUIPMENT WITH VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED
2. CONFIRM POINTS AVAILABLE AS PART OF THE FACTORY CONTROLS, IF NOT AVAILABLE THE PROVIDE.
3. PROVIDE INTERFACE TO BUILDING MANAGEMENT SYSTEM.



1 HV FOR BOILER ROOM & CHILLER ROOM
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CONTROLS DIAGRAMS 3

SCALE 12" = 1'-0"

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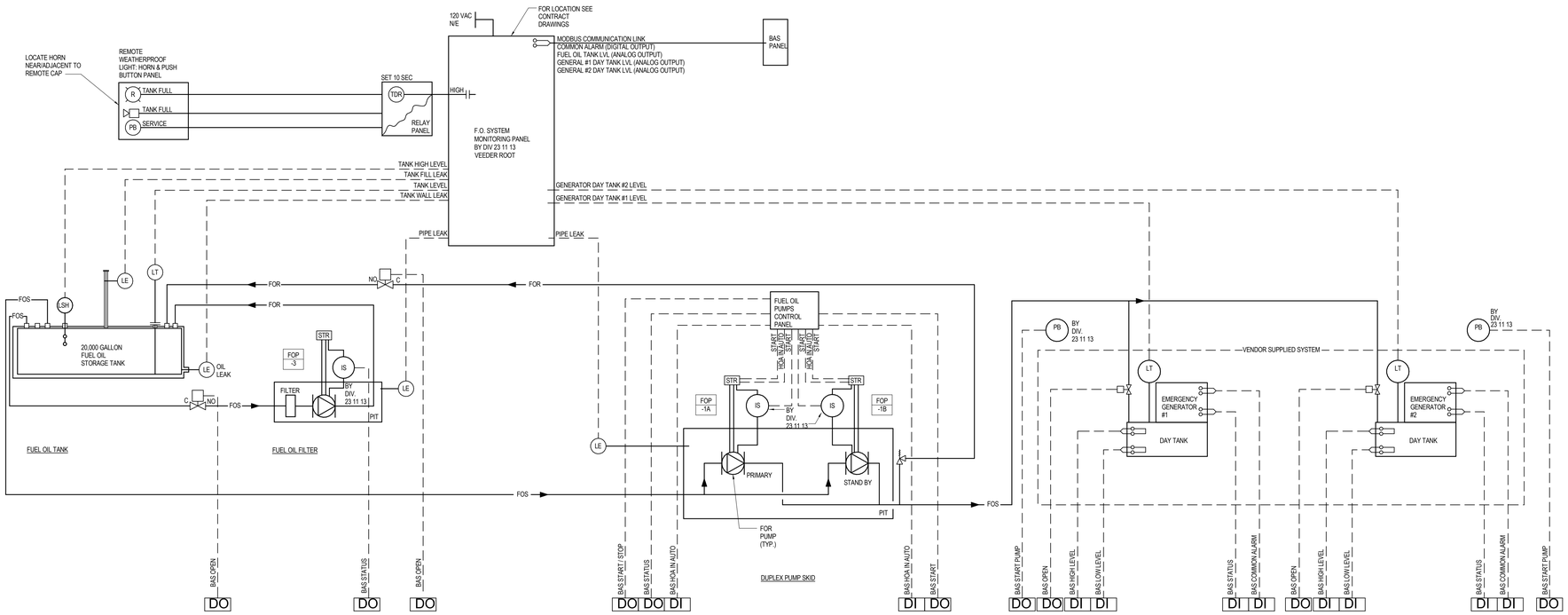
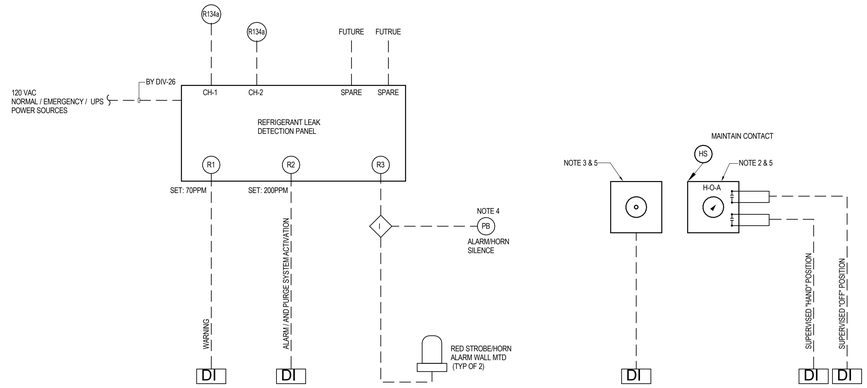


1 FUEL OIL SYSTEM CONTROL DETAIL
NOT TO SCALE

NOTES:
1. ALL WIRING AND CONDUIT BY SECTION 26.
2. FOR CONCEPT ONLY, REFER TO PLANS AND DETAILS FOR ACTUAL CONFIGURATION.



2 MER VENTILATION / EMERGENCY PURGE CONTROL DIAGRAM
NOT TO SCALE

NOTES:
1. REFER TO MECHANICAL PLAN FOR EXACT LOCATION OF SENSORS AND VISIBLE / AUDIBLE ALARMS.
2. LOCAL SELECTOR SWITCH FOR CONTROL OF MER VENTILATION SYSTEM.
3. EMERGENCY SHUTDOWN SWITCH FOR CHILLED WATER SYSTEM. PUSH TO ACTIVATE KEY TO RESET.
4. PUSHBUTTONS SHALL SILENCE HORNS ONLY. STROBE TO REMAIN OPERATIONAL UNTIL ALARM CONDITION CLEARS OR IS MANUAL RESET.
5. PROVIDE A TAMPER-PROOF POLYCARBONATE SHIELD OVER DEVICE TO PREVENT ACCIDENTAL ACTIVATION.
6. REFER TO DRAWING FOR DEVICE LOCATIONS.

SYMBOL LIST

PB	PUSH BOTTON
HS	SELECTOR SWITCH
1	INTERLOCK LOGIC

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CONTROLS DIAGRAMS 4

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ELECTRICAL LEGEND

LIGHTING

CEILING OUTLET BOX AND LIGHT FIXTURE,
'A' - DENOTES FIXTURE TYPE
'2 ' - DENOTES CIRCUIT NUMBER
'2E' - DENOTES EMERGENCY CIRCUIT NUMBER
'a' - DENOTES SWITCH CONTROL
'EM' - DENOTES EMERGENCY
'NL' - DENOTES NIGHT LIGHT (UNSWITCHED)

SLASH WITH SHADING INDICATES FIXTURE ON EMERGENCY CIRCUIT.

DOWNLIGHT, WALLWASHER:

SLASH WITH SHADING INDICATES FIXTURE ON EMERGENCY CIRCUIT

WALL OUTLET BOX AND LIGHT FIXTURE

WALL CLG
EXIT SIGN
(DIRECTIONAL ARROWS AS INDICATED)

WALL CLG
COMBINATION EXIT LIGHT AND EMERGENCY LIGHTING UNIT

EMERGENCY LIGHTING BATTERY UNIT WITH SEALED BEAM HEADS CONNECTED TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT. NUMBER OF HEADS AS SHOWN ON PLAN

REMOTE EMERGENCY SEALED BEAM HEAD

AUXILIARY SYSTEMS

TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FCO	FUSED CUT OUT
TC	TIMECLOCK
R	RELAY
C	CONTACTOR
	CCTV CAMERA
MIC	MICROPHONE OUTLET
S S	SPEAKER
DH	MAGNETIC DOOR HOLDER
ML	MAGNETIC DOOR LOCK
DO	ELECTRIC DOOR OPENER
DO	DOOR OPENER PUSH BUTTON
DS	DOOR SECURITY JUNCTION BOX
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
FACP	FIRE ALARM CONTROL PANEL
T	THERMOSTAT
EPO	EMERGENCY POWER OFF PUSH BUTTON
CB	ENCLOSED CIRCUIT BREAKER

WIRING DEVICES

DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W (GROUNDED)
NEMA CONFIG. 5-20R
'2' - DENOTES CIRCUIT NUMBER
'GFI' - DENOTES GROUND FAULT INTERRUPTER
'CH' - DENOTES MOUNTED AT COUNTER HEIGHT
'IG' - DENOTES ISOLATED GROUND (ORANGE DEVICE)
'ES' - DENOTES EMERGENCY OR STAND-BY SERVICE (RED DEVICE)

SINGLE RECEPTACLE, 20A, 125V, 2P, 3W (GROUNDED) ON A DEDICATED CIRCUIT, NEMA CONFIG. 5-20R

DOUBLE DUPLEX RECEPTACLE IN 2 GANG BOX, 20A, 125V, 2P, 3W (GROUNDED) NEMA CONFIG. 5-20R

DUPLEX RECEPTACLE AND SWITCH IN 2 GANG BOX

DUPLEX RECEPTACLE 20A, 125V, 2P, 3W NEMA CONFIG. 5-20R (DEDICATED APPLIANCE OR DEDICATED EQUIPMENT OUTLET)

6-20R
SPECIAL PURPOSE RECEPTACLE:
'6-20R' - DENOTES NEMA CONFIGURATION

CEILING MOUNTED DUPLEX RECEPTACLE

CONTROL SWITCH:
DENOTES SWITCH CONTROL
'3' - DENOTES 3-WAY SWITCH
'4' - DENOTES 4-WAY SWITCH
'(8)' - DENOTES CIRCUIT NUMBER
'K' - DENOTES KEY OPERATED SWITCH
'P' - DENOTES PILOT LIGHT SWITCH - LIT WHEN ON
'L' - DENOTES LIT HANDLE SWITCH - LIT WHEN OFF
'OC' - DENOTES AUTOMATIC OCCUPANCY SENSOR SWITCH
'A' - DENOTES AUTOMATIC TIMER SWITCH
'MC' - DENOTES MOMENTARY CONTACT SWITCH

WALL MOUNTED COMBINATION AUX./SPECIAL SYSTEM OUTLET:
2-GANG COVER, MIN. 4-11/16" SQ. x 2-1/8"D BOX WITH DEDICATED 1"C STUBBED UP TO ABOVE ACCESSIBLE CEILING OR HOMERUN TO PATHWAY SYSTEM PULL BOX OR HOMERUN TO EQUIPEMNT ROOM. U.O.N. PROVIDE BUSHINGS ON STUB UPS. SPECIFIC DEVICES AS FOLLOWS:

COMBINATION TEL/DATA (TELECOM) OUTLET

WALL DATA OUTLET. PROVIDE BACK BOX AND 1"C STUBBED UP TO 6" ABOVE ACCESSIBLE CEILING.

W
TELEPHONE OUTLET:
'W' - DENOTES FOR WALL MOUNTED TELEPHONE
'P' - DENOTES PUBLIC TELEPHONE

J
FLOOR BOX WITH DEVICES INDICATED, BOX TYPE/STYLE AS NOTED ON PLAN.

EM
EMERGENCY REFUGE AREA CALL STATION

EM-MS
EMERGENCY REFUGE AREA CALL MASTER STATION

GROUND BUS

HR
CEILING, WALL MOUNTED JUNCTION BOX
- TAIL DENOTES CONNECTION TO EQUIPMENT AS REQUIRED
'HR' - DENOTES HOMERUN JUNCTION BOX

PULLBOX

WIREWAY

5
MOTOR WITH JUNCTION BOX AND FLEXIBLE CONDUIT CONNECTION
'5' - DENOTES HORSEPOWER

S_T
MANUAL MOTOR STARTER WITH THERMAL OVERLOADS

S_M
MOTOR RATED SWITCH

A B J
FUSED DISCONNECT SWITCH:
'A' - DENOTES SWITCH SIZE
'B' - DENOTES FUSE SIZE

A J
UNFUSED DISCONNECT SWITCH:
'A' - DENOTES SWITCH SIZE

A B J 2
COMBINATION MOTOR STARTER (WITH FUSED DISCONNECT SWITCH):
'A' - DENOTES RATING
'B' - DENOTES TRIP
'2' - DENOTES NEMA SIZE

2
MOTOR STARTER:
'2' - DENOTES NEMA SIZE

N S_N =E L_L
AUTOMATIC TRANSFER SWITCH

VFD
VARIABLE FREQUENCY DRIVE

VSD
VARIABLE SPEED DRIVE

A
AMMETER

V
VOLTMETER

T
TRANSFORMER

WIRING SYSTEM

C
CONDUIT RUN CONCEALED:
- TICK MARKS INDICATE NUMBER OF WIRES CONTAINED IN CONDUIT
- TICK WITH 'G' INDICATES SEPARATE INSULATED GROUND WIRE
(PROVIDE IN ALL CONDUITS WHETHER SHOWN OR NOT)

CONDUIT RUN EXPOSED ON CEILING AND WALLS

CONDUIT RUN CONCEALED AT FLOOR BELOW

CONDUIT RUN CONCEALED IN SLAB

LP-3A
#1,3,5(R)
CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS INDICATED
- ARROWS DENOTE NUMBER OF CIRCUITS
(R) - DENOTES CIRCUIT VIA RELAY FOR CONTROL
(PC) - DENOTES VIA PHOTOCELL FOR CONTROL

DP-A #2
MULTI-POLE CIRCUIT HOMERUN TO PANELBOARD AND CIRCUITS INDICATED

CONDUIT TURNING UP

CONDUIT TURNING DOWN

CONDUIT OR CONDUIT SLEEVE WITH BUSHINGS

PULL/SPLICE BOX WITH FEEDER TAP

PULL/BOX WITH CABLE SUPPORT

C
MI
CABLE IN CONDUIT ('C') TO MI CABLE ('MI') TRANSITION BOX

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

PT

EM
INTEGRAL ELECTRONIC CUSTOMER METERING

GROUND

LIGHTNING ARRESTER

CIRCUIT BREAKER

UNFUSED SWITCH

FUSED SWITCH

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SYMBOL LIST

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GENERAL REMOVAL NOTES

1. NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE CONTRACTING OFFICER.
2. ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
3. EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK.
4. WHERE SPECIFIC DEVICES ARE INDICATED:
   `EX' - DENOTES EXISTING TO REMAIN.
   `ER' - DENOTES EXISTING TO BE REMOVED.
   `R' - RELOCATED (SHOWN IN RELOCATED LOCATION)
   `RR' - EXISTING TO BE REMOVED AND RELOCATED.
5. UNLESS OTHERWISE INDICATED, EXISTING SERVICES, SYSTEMS AND WIRING SERVING EXISTING AREAS OUTSIDE OF DEMOLITION AREA SHALL REMAIN OR BE RELOCATED AS REQUIRED TO MAINTAIN OPERATION OF EXISTING SYSTEMS AND AVOID CONFLICT WITH NEW CONSTRUCTION.
6. IN PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO THE ARCHITECTURAL SURFACES AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR ANY MATERIAL DEEMED BY THE OWNER TO HAVE BEEN UNDULY DAMAGED BY CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY CONTRACTOR AND NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED TO ACCOMMODATE BOTH REMOVAL OF EXISTING AND INSTALLATION OF NEW WORK.
8. FEEDERS AND BRANCH CIRCUITS TO BE REMOVED (ONE IS ASSUMED FOR EACH DEVICE, U.O.N.) - CONDUIT AND SUPPORTS SHALL BE REMOVED TO THE PANEL OF ORIGIN OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS. (ONE IS ASSUMED FOR EACH DEVICE, U.O.N.) ONLY WHERE INACCESSIBLE, ENCASED IN CONCRETE, IN WALLS, CEILINGS, FLOORS OR BELOW SLABS NOT SCHEDULED FOR REMOVAL CUT CONDUIT FLUSH WITH CONCRETE SURFACES AND PATCH.
9. FEEDER AND BRANCH CIRCUIT CONDUITS MAY BE ABANDONED ONLY WHERE INACCESSIBLE, ENCASED IN CONCRETE WALLS, CEILINGS OR FLOORS NOT SCHEDULED FOR REMOVAL. CUT CONDUIT FLUSH WITH CONCRETE SURFACES AND PATCH. DISCONNECT AND REMOVE EXISTING CONDUCTORS IN THEIR ENTIRETY FROM LOAD TO SOURCE OF POWER.
10. PROVIDE BLANK PLATES AT ALL OPEN BOXES WHERE DEVICES ARE REMOVED AND SURFACE IS NOT SCHEDULED TO BE PATCHED AND RE-FINISHED AND PROVIDE BLANK-OFF COVERS WHERE CONDUIT OPENING REMAINS AT PULL BOXES, EQUIPMENT, ETC.
11. ALL CIRCUITS AFFECTED BY THE DEMOLITION WORK SHALL BE DE-ENERGIZED AT THEIR SOURCE PRIOR TO BEGINNING ANY DEMOLITION WORK.
12. COORDINATE WITH OWNER WHICH FIXTURES, DEVICES AND EQUIPMENT, IF ANY, ARE TO BE REMOVED, KEPT INTACT AND RETURNED TO THE OWNER. IN GENERAL, ALL DEVICES, WIRING, RACEWAYS, BOXES, SUPPORTS AND OTHER APPURTENANCES WHICH ARE TO BE REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED.
13. A EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. PROVIDE CERTIFICATE TO OWNER INDICATING PROPER DISPOSAL AS REQUIRED. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION.

GENERAL NOTES

1. ALL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF LIGHTING FIXTURES, FLUSH MOUNTED SPEAKERS AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. ALL NOTATIONS OF "SCALE" ARE INTENDED AS APPROXIMATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE EXACT LOCATIONS OF ALL EQUIPMENT AND CHECKING THE REQUIRED CLEARANCES.
4. CONDUIT RUNS OVER BOILERS AND HEAT RADIATING EQUIPMENT SHALL BE AVOIDED. WHERE RUNS ADJACENT TO EQUIPMENT OPERATING AT HIGH TEMPERATURE ARE SHOWN OR REQUIRED BY FIELD CONDITIONS, USE TYPE XHHW INSULATION FOR CONDUCTORS; INCREASE CONDUCTOR SIZE FOR ELEVATED AMBIENT TEMPERATURE PER NEC AMPACITY CORRECTION FACTOR.
5. ALL MOUNTING HEIGHTS GIVEN FOR LIGHTING FIXTURES SHALL BE FROM FINISHED FLOOR TO BOTTOM OF LIGHTING FIXTURES.
6. PULL AND JUNCTION BOXES SHALL BE SURFACE TYPE IN ULTIMATELY UNFINISHED AREAS UNLESS OTHERWISE NOTED. LOCATE APPROXIMATELY WHERE INDICATED, ON WALLS, CEILINGS, BEAMS OR SUSPENDED FROM CEILINGS, TO SUIT CONDUIT ENTRANCE, TO AVOID INTERFERENCE WITH EQUIPMENT OF OTHER TRADES AND TO LEAVE COVERS READILY ACCESSIBLE.
7. PULL BOXES WHETHER SIZED OR NOT SHALL BE MODIFIED BY THIS CONTRACTOR TO MEET FIELD CONDITIONS AND CODE REQUIREMENTS. ADDITIONAL PULL BOXES, IF REQUIRED TO SATISFY FIELD CONDITIONS AND CODE REQUIREMENTS, SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR AT NO EXTRA COST.
8. THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTIVE DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH.
9. FOR EXACT LOCATIONS OF ELECTRICAL DEVICES SEE ARCHITECTURAL DRAWINGS.
10. NUMBER SHOWN AT LIGHTING FIXTURES, DEVICES AND EQUIPMENT INDICATES CIRCUIT NUMBER IN PANEL. PROVIDE WIRE AND CONDUIT TO INTERCONNECT THE AFOREMENTIONED AND ASSOCIATED EQUIPMENT AND CONTROL DEVICES WITH SAME CIRCUIT NUMBERS AND RUN TO PANEL.
11. CONDUIT RUNS SHALL BE NEATLY INSTALLED. WHERE MULTIPLE RUNS FROM THE SAME PANEL ARE MADE, THE RUNS SHALL BE PARALLEL WITH EACH OTHER AND FASTENED WITH A COMMON SUPPORT, SPACED AND SECURED AT THE REQUIRED INTERVALS. BRANCHES SHALL TURN OFF TO THEIR OUTLETS IN AN ORGANIZED MANNER WITHOUT CROSSING EACH OTHER.
12. ALL BRANCH CIRCUITS SHALL BE CLEARLY MARKED IN THE PANEL AS TO LOCATION AND PURPOSE. PROVIDE LAMINATED TYPE WRITTEN CIRCUIT DIRECTORIES FOR ALL PANELS THAT ARE PROVIDED, REPLACED, MODIFIED, OR AFFECTED BY ANY WORK PERFORMED UNDER THIS CONTRACT. INDICATE ALL EXISTING, REVISED AND NEW LOADS IN SCHEDULE. PROVIDE INDIVIDUAL LABELS FOR EACH CIRCUIT BREAKER ON SWITCHBOARD/SWICHGEAR FRONTS.
13. CIRCUITING FOR LIGHTING IN ROOMS WITH TOGGLE SWITCHES SHALL BE CONTROLLED BY DESIGNATED SWITCHES. IF SPECIFIC DESIGNATION IS NOT INDICATED, ALL LIGHTING IN ROOM SHALL BE CONTROLLED BY THE SWITCH(ES) INDICATED.
14. A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL BRANCH CIRCUIT RACEWAYS.
15. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS LINE VOLTAGE WIRING.
16. COORDINATE WITH OTHER TRADES TO DETERMINE THE EXACT LOCATION OF MOTORS, MOTOR TERMINAL BOXES, AND OTHER EQUIPMENT TO BE INSTALLED BY OTHER TRADES BEFORE CONDUIT WORK IS STARTED.
17. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE ARCHITECTURAL DRAWINGS, UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX):
    A. RECEPTACLES (WALL MOUNTED) - 18" A.F.F.
    B. RECEPTACLES (COUNTER HEIGHT) - HORIZONTAL 8" ABOVE COUNTER
    C. RECEPTACLES (EXTERIOR) - 18" ABOVE FINISHED GRADE
    D. TELEPHONE/DATA OUTLETS - SAME AS RECEPTACLES
    E. WALL MOUNTED TELEPHONES - 48" A.F.F.
    F. LIGHTING FIXTURES - PER ARCH. DWGS.
    G. PANELBOARDS - 77" TO TOP OF PANEL
    H. LIGHT SWITCHES - 48" A.F.F.
18. WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH CIRCUIT NUMBERS ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS:
    A. LIGHTING FIXTURES - 2#12, #12 GRD, 3/4"C
    B. RECEPTACLES - 2#12, #12 GRD, 3/4"C
    C. BRANCH CIRCUIT BREAKERS (120 VOLT) - 1P, 20A
    D. HOMERUNS TO PANELBOARDS SHALL CONTAIN NO MORE THAN (3) CIRCUITS.
19. WIRE SIZES SHALL BE INCREASED TO COMPENSATE FOR VOLTAGE DROP AS FOLLOWS:
    A. 120V AND 208V CIRCUITS LONGER THAN 100'-0" SHALL UTILIZE MIN. #10 AWG.
    B. 277V AND 480V CIRCUITS LONGER THAN 200'-0" SHALL UTILIZE MIN. #10 AWG.
20. ALL CONDUITS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS/AV CABLING, SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENGTH AND AT EACH OUTLET AND PULL BOX WITH PANEL AND CIRCUIT NUMBER OR SYSTEM NAME.
21. WHERE MULTIPLE SWITCHES (LIGHTING AND EXHAUST FAN) AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION, THEY SHALL BE MOUNTED BEHIND A COMMON FACEPLATE AND BE GANGED IN ONE BOX. SWITCH FOR FANS SHALL BE LOCATED FURTHEST FROM DOOR JAMB.
22. EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
23. PANELBOARDS LOCATED ON OTHER THAN MASONRY WALLS SHALL BE MOUNTED WITH MODULAR CHANNEL SUPPORTS SECURED TO THE BUILDING STRUCTURE. FLUSH MOUNTED PANELBOARDS SHALL BE PROVIDED WITH (3) 1" EMPTY CONDUITS TERMINATED ABOVE THE FINISHED CEILING.

ABBREVIATIONS

#C	# DENOTES QUANTITY OF CONDUCTORS IN SINGLE CABLE
A	AMPERES
AF	AMPERE FRAME/AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AS	AMPERE SWITCH
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BAS/BMS	BUILDING AUTOMATION SYSTEM/BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CB	CIRCUIT BREAKER
CFL	COMPACT FLUORESCENT LAMP
CLG	CEILING
CT	CURRENT TRANSFORMER
D	DATA
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
DP, EDP, SDP	DISTRIBUTION PANELBOARD, 'E' - DENOTES EMERGENCY, 'S' - DENOTES STAND-BY
DP,LP,ELP,PP, SLP, RP, ERP, SRP , PP, SPP, RLP, EDRP	PANELBOARD: 'E' - DENOTES EMERGENCY, 'S' - DENOTES STAND-BY, 'LP' - DENOTES LIGHTING PANEL, 'PP' - DENOTES POWER PANEL, 'RP' - DENOTES RECEPTACLE PANEL, 'DP' - DENOTES DISTRIBUTION PANEL
EC	EMPTY CONDUIT WITH PULL LINE
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ER	EXISTING TO BE REMOVED
EX	EXISTING TO REMAIN
EXIST	EXISTING
F/SW	FUSED SWITCH
FAS	FIRE ALARM SYSTEM
FDR	FEEDER
FSD	FIRE SMOKE DAMPER
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HD	HAND DRYER
HH	HANDHOLE
HR	HOME RUN/HOUR
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
L	LOAD
LA	LIGHTNING ARRESTER
LCP	LOCAL CONTROL PANEL /LIGHTING CONTROL PANEL
LT,LTG	LIGHTING
LVR / LVRC	LOW VOLTAGE RELAY /LOW VOLTAGE RELAY CABINET
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANELBOARD
MH	MANHOLE
MI	MINERAL INSULATED CABLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NORMAL
NAC	NOTIFICATION APPLIANCE CABINET (FAS)
NACB	NON-AUTOMATIC CIRCUIT BREAKER
NTS	NOT TO SCALE
OC	ON CENTER
P	POLES/PHASE
PNL. PNLBD	PANEL, PANELBOARD
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
R	RELOCATED
RGS	RIGID GALVANIZED STEEL
RR	REMOVE AND RELOCATE
SD	SMOKE DAMPER
SEC	SECONDARY, SECURITY
SST	SOLID STATE TRIP UNIT (FOR CB'S)
T, TR, XFMR	TRANSFORMER
TEL./TELCOM	TELECOMMUNICATIONS
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS/VOICE
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE FREQUENCY DRIVE
W	WATTS/WIRE
WP	WEATHERPROOF
WT	WIRE TROUGH

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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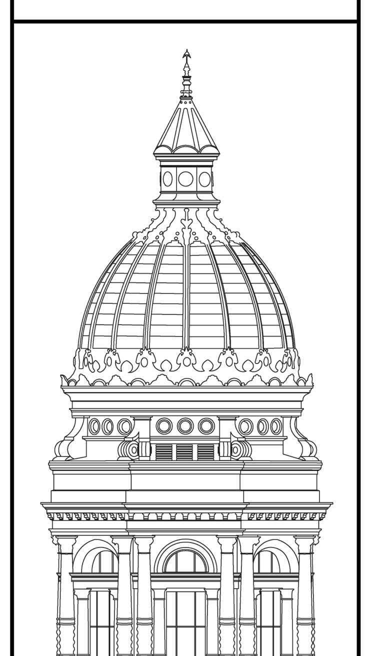

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HDR PDP PLAN ARCHITECTS

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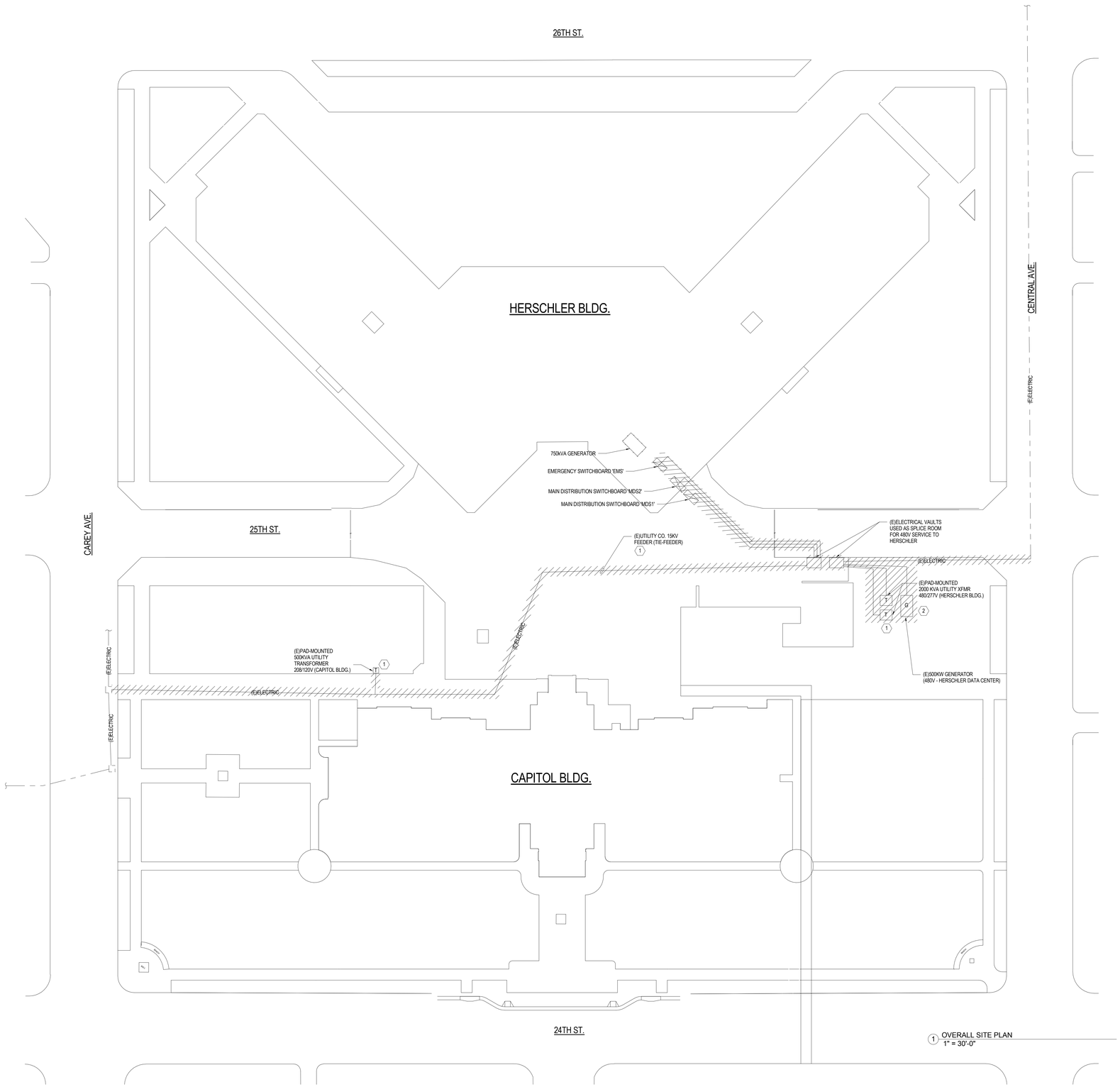
PKG. IDENTIFIER	

ELECTRICAL NOTES AND ABBREVIATIONS

SCALE 12" = 1'-0"

3EI002

Schematic Design



1 OVERALL SITE PLAN
1" = 30'-0"

GENERAL NOTES

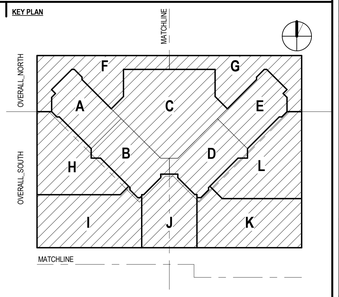
1. EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE / CIVIL ENGINEER.
2. WORK SHOWN ON THIS DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO PLANS AND DIAGRAMS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	COORDINATE ALL WORK WITH UTILITY COMPANY.
2.	DATA CENTER GENERATOR TO BE REMOVED BY OTHERS.

GRAPHIC LEGEND

KEY PLAN



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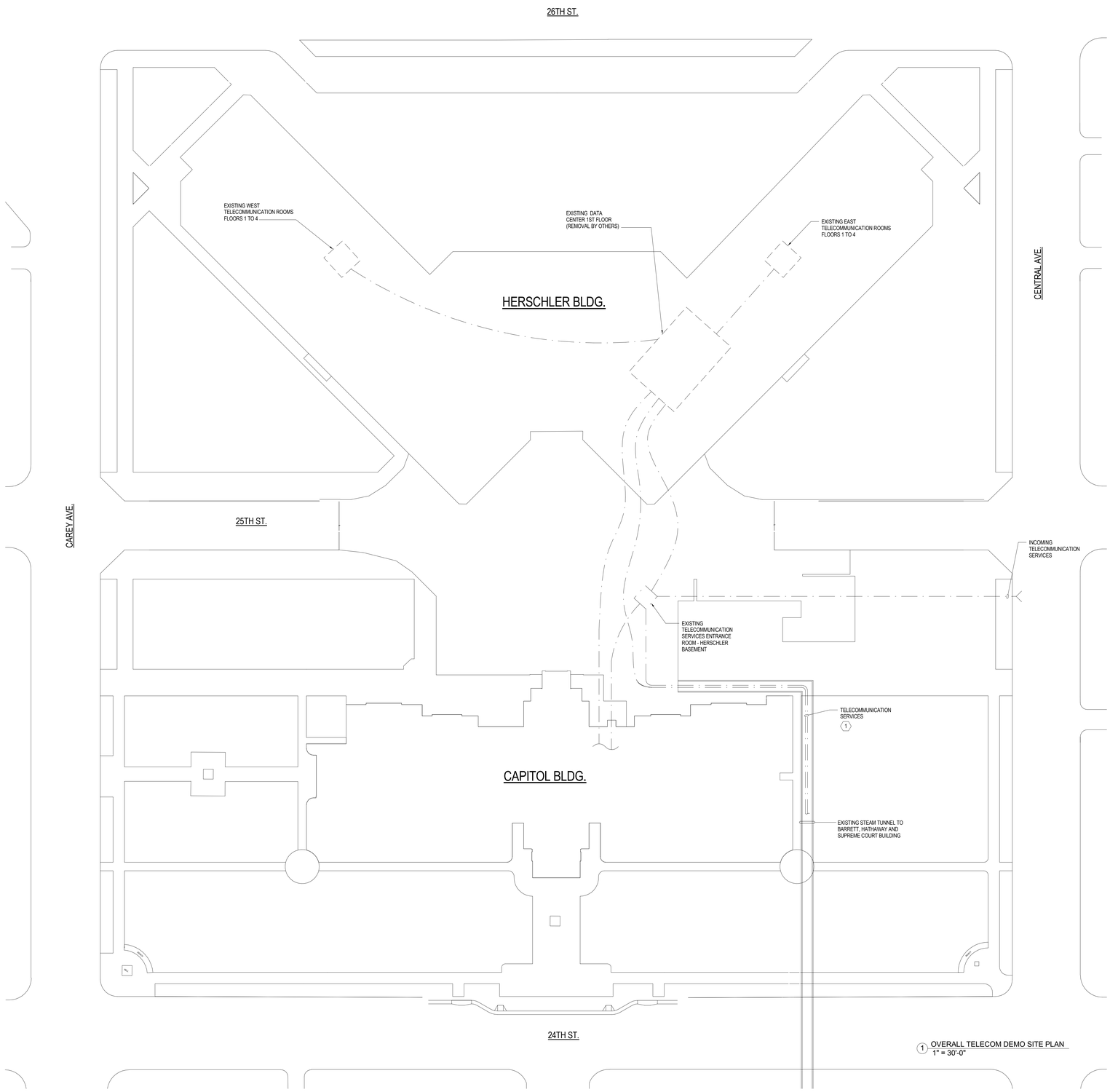
OVERALL SITE POWER DEMOLITION PLAN

SCALE: As indicated

3ED010

Schematic Design



1 OVERALL TELECOM DEMO SITE PLAN
1" = 30'-0"

GENERAL NOTES

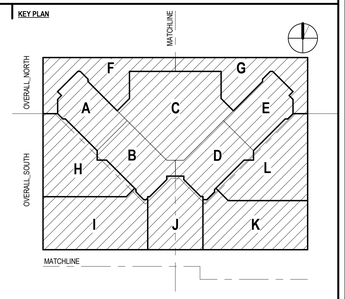
1. EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE / CIVIL ENGINEER.
2. WORK SHOWN ON THIS DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO PLANS AND DIAGRAMS FOR ADDITIONAL INFORMATION.
3. UNLESS OTHERWISE NOTED, ALL EXISTING TELECOM CABLING AND EQUIPMENT SHALL BE REMOVED. COORDINATE SCOPE OF WORK AND PHASING WITH OWNER IT PERSONNEL.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	EXISTING CABLING TO BARRETT, HATHAWAY AND SUPREME COURT BUILDINGS SHALL REMAIN AND BE INTERCEPTED IN TUNNEL AND EXTENDED TO NEW SERVICES IN HERSCHLER BUILDING. SEE 3EC010 FOR ADDITIONAL INFORMATION.

GRAPHIC LEGEND

KEY PLAN



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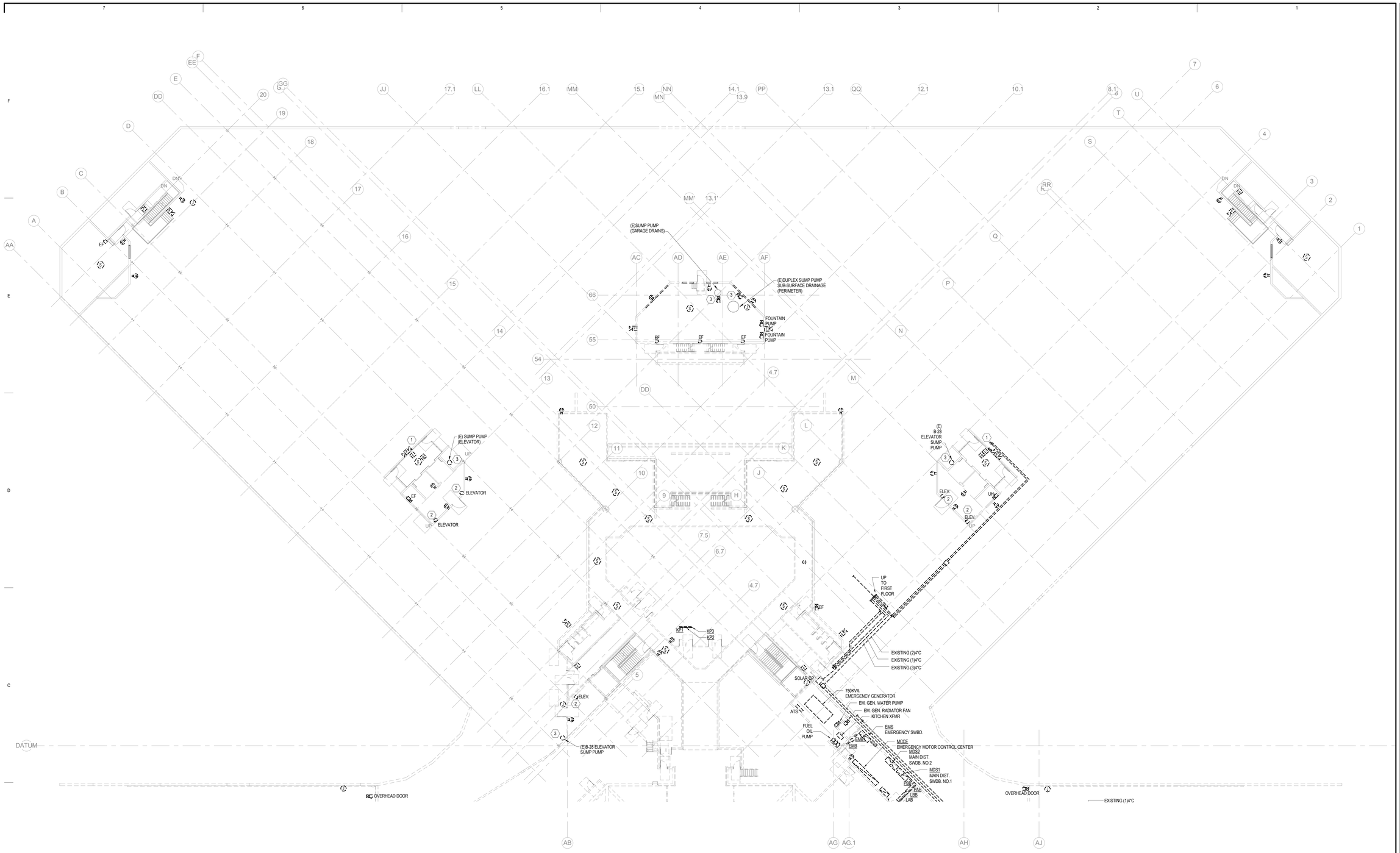
OVERALL SITE TELECOM DEMOLITION PLAN

SCALE: As indicated

3ED011

Schematic Design



1 DEMO - POWER - CUP LOWER LEVEL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

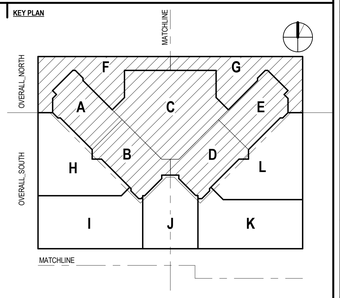
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL SERVICE EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	EXISTING BUSDUCT CABLE TAP BOX AT CEILING AND BUSDUCT RISER ABOVE AT FLOORS 1-4 SHALL REMAIN TO BE RE-FED. EXISTING FEEDER FROM MAIN SWITCHBOARD TO BE REMOVED.
2.	EXISTING ELEVATOR TO REMAIN AND BE REFED. EXISTING FEEDER FROM MAIN ELECTRIC ROOM TO BE REMOVED.
3.	EXISTING SUMP PUMPS AND CONTROLS TO BE REMOVED AND REPLACED BY OTHERS. REMOVE ALL ASSOCIATED WIRE AND CONDUIT. NEW CIRCUITING AND ALARM WIRING SHALL BE PROVIDED FROM STANDBY EMERGENCY POWER IN NEW WORK.

GRAPHIC LEGEND

KEY PLAN



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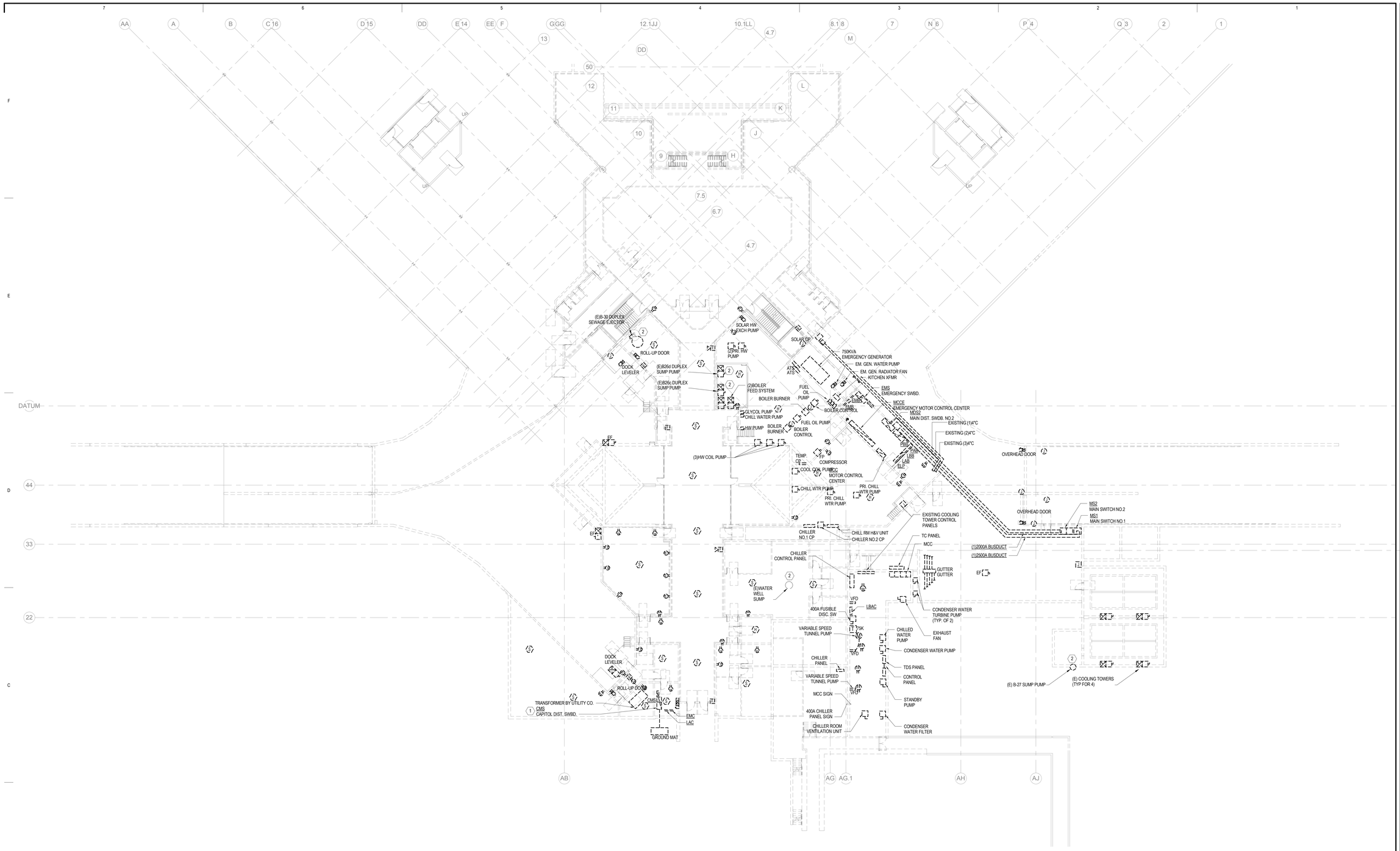
OVERALL DEMOLITION POWER PLAN LOWER LEVEL 1 NORTH

SCALE: As indicated

3ED100

Schematic Design



1 DEMO - POWER - CUP LOWER LEVEL SOUTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

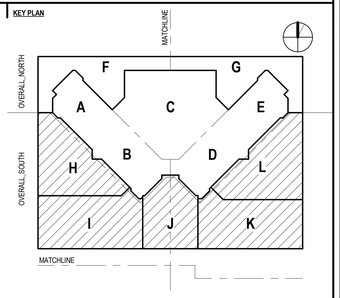
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL SERVICE EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	SEE CAPITOL BUILDING 2-SERIES DRAWINGS FOR WORK ASSOCIATED WITH THE CAPITOL BUILDING.
2.	EXISTING SUMP PUMPS AND CONTROLS TO BE REMOVED AND REPLACED BY OTHERS. REMOVE ALL ASSOCIATED WIRE AND CONDUIT. NEW CIRCUITING AND ALARM WIRING SHALL BE PROVIDED FROM STANDBY EMERGENCY POWER IN NEW WORK.

GRAPHIC LEGEND

KEY PLAN



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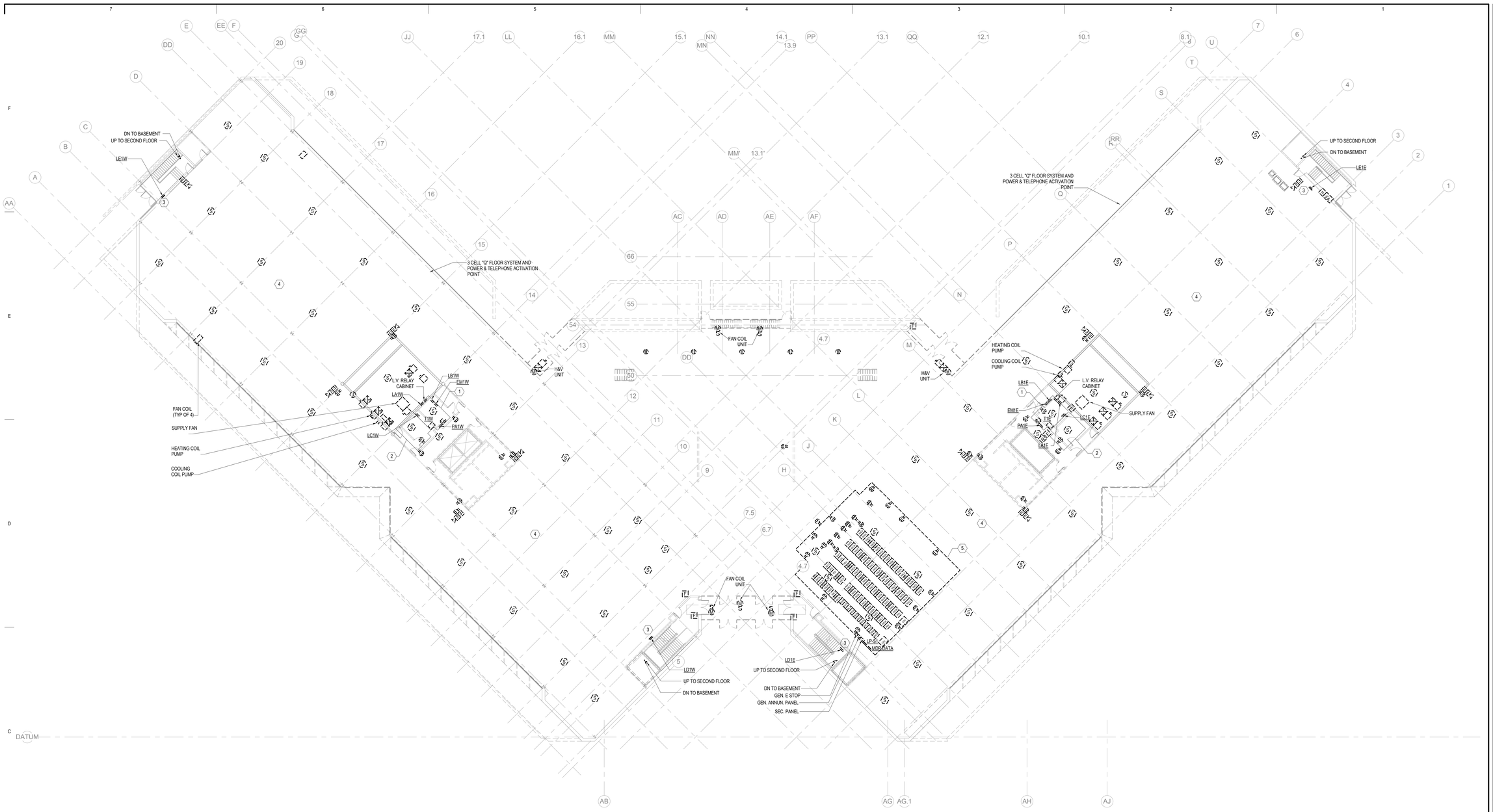
OVERALL DEMOLITION POWER PLAN LOWER LEVEL 1 SOUTH

SCALE As indicated

3ED101

Schematic Design



1 DEMO - POWER - HERSCHLER FIRST FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

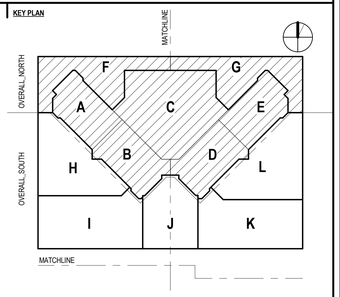
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	EXISTING CORE ELECTRIC ROOM TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK.
2.	EXISTING CORE TELECOM ROOM TO REMAIN. ALL EXISTING EQUIPMENT AND CABLING TO BE REMOVED.
3.	SATELLITE ELECTRIC AND TELECOM CLOSETS TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK. EXISTING TELECOM EQUIPMENT AND CABLING TO BE REMOVED.
4.	EXISTING ELECTRICAL / TELECOM FLOOR CELL SYSTEM SERVED VIA ELEC / TELECOM ROOMS AND SATELLITE ELEC / TELECOM CLOSETS SHALL BE ABANDONED IN PLACE. ALL DEVICES AND CABLING SHALL BE REMOVED AND ACCESS LOCATIONS SHALL BE CAPPED AND SEALED.
5.	EXISTING DATA CENTER TO BE REMOVED BY OTHERS. SCOPE OF WORK FOR THIS AREA TO BE DETERMINED.

GRAPHIC LEGEND

KEY PLAN



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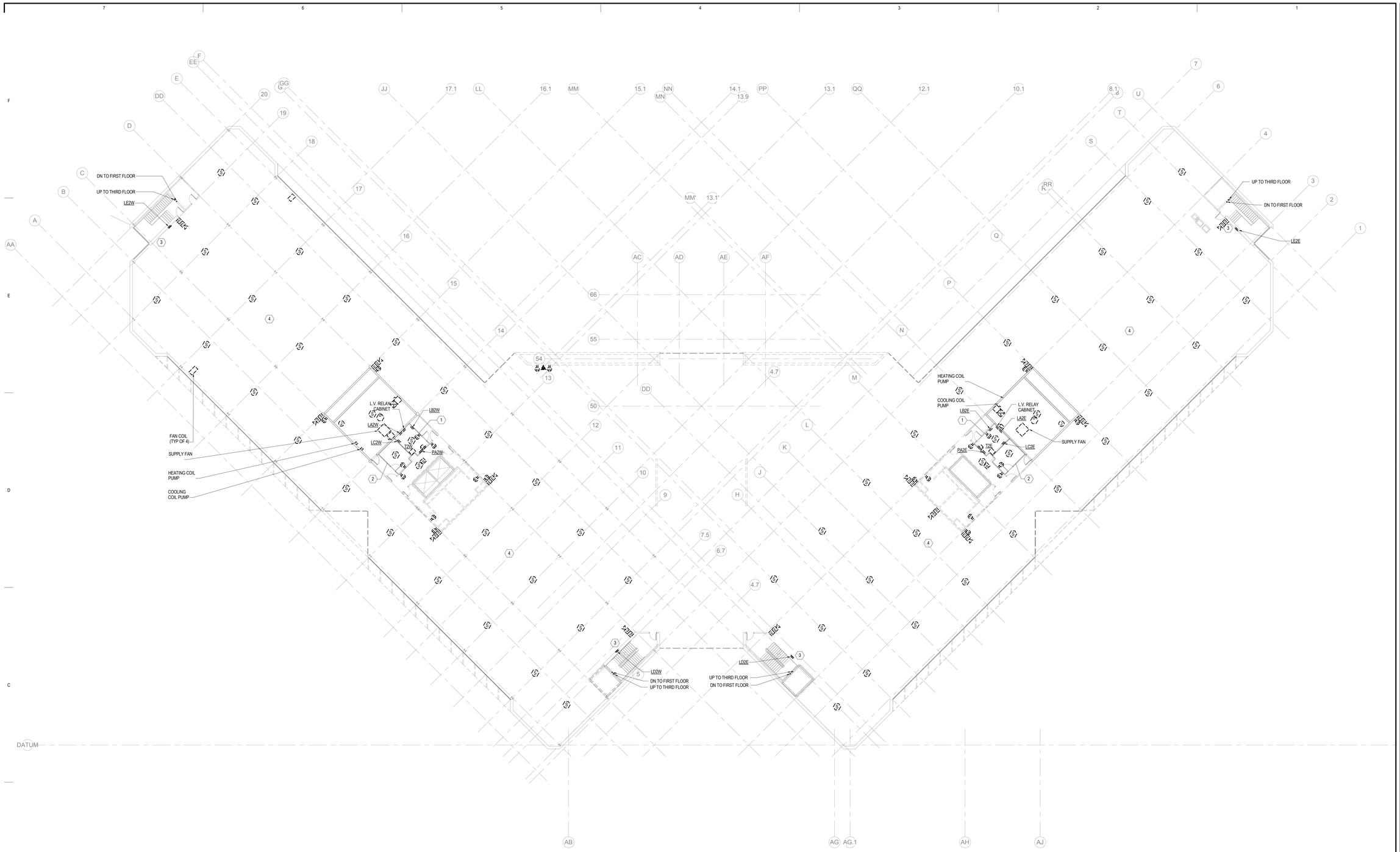
OVERALL DEMOLITION POWER PLAN LEVEL 1 NORTH

SCALE As indicated

3ED110

Schematic Design



1 DEMO - POWER - HERSCHLER SECOND FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

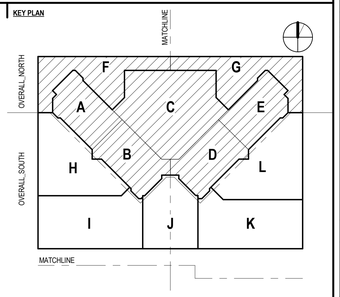
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	EXISTING CORE ELECTRIC ROOM TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK.
2.	EXISTING CORE TELECOM ROOM TO REMAIN. ALL EXISTING EQUIPMENT AND CABLING TO BE REMOVED.
3.	SATELLITE ELECTRIC AND TELECOM CLOSETS TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK. EXISTING TELECOM EQUIPMENT AND CABLING TO BE REMOVED.
4.	EXISTING ELECTRICAL / TELECOM FLOOR CELL SYSTEM SERVED VIA ELEC / TELECOM ROOMS AND SATELLITE ELEC / TELECOM CLOSETS SHALL BE ABANDONED IN PLACE. ALL DEVICES AND CABLING SHALL BE REMOVED AND ACCESS LOCATIONS SHALL BE CAPPED AND SEALED.
5.	EXISTING DATA CENTER TO BE REMOVED BY OTHERS. SCOPE OF WORK FOR THIS AREA TO BE DETERMINED.

GRAPHIC LEGEND

KEY PLAN



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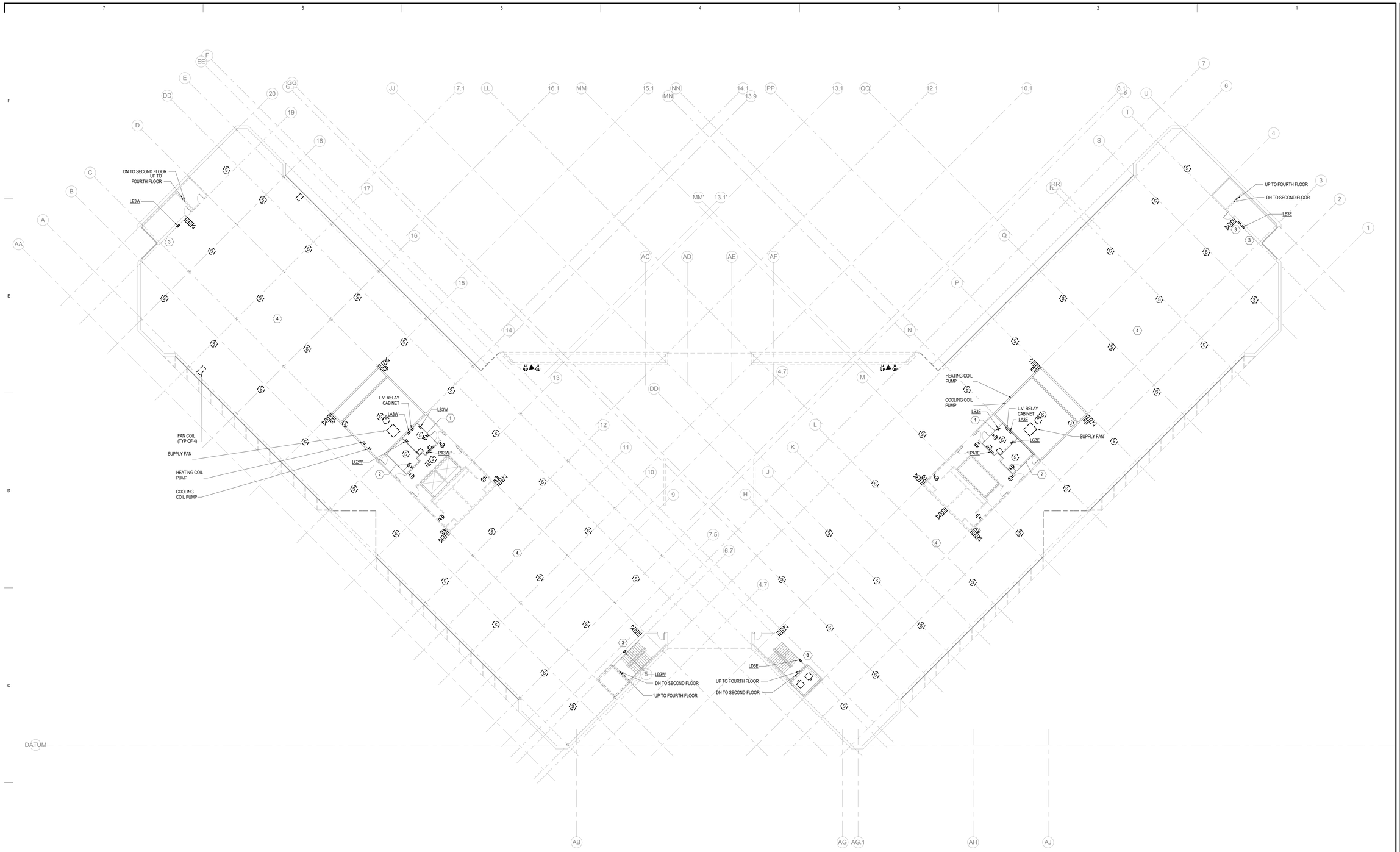
OVERALL DEMOLITION POWER PLAN LEVEL 2 NORTH

SCALE: As indicated

3ED120

Schematic Design



1 DEMO - POWER - HERSCHLER THIRD FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

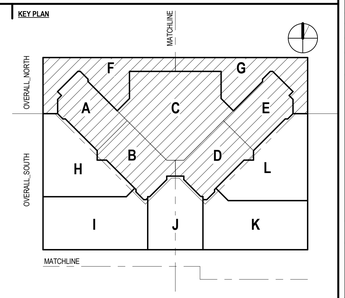
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	EXISTING CORE ELECTRIC ROOM TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK.
2.	EXISTING CORE TELECOM ROOM TO REMAIN. ALL EXISTING EQUIPMENT AND CABLING TO BE REMOVED.
3.	SATELLITE ELECTRIC AND TELECOM CLOSETS TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK. EXISTING TELECOM EQUIPMENT AND CABLING TO BE REMOVED.
4.	EXISTING ELECTRICAL / TELECOM FLOOR CELL SYSTEM SERVED VIA ELEC / TELECOM ROOMS AND SATELLITE ELEC / TELECOM CLOSETS SHALL BE ABANDONED IN PLACE. ALL DEVICES AND CABLING SHALL BE REMOVED AND ACCESS LOCATIONS SHALL BE CAPPED AND SEALED.
5.	EXISTING DATA CENTER TO BE REMOVED BY OTHERS. SCOPE OF WORK FOR THIS AREA TO BE DETERMINED.

GRAPHIC LEGEND

KEY PLAN



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LORING CONSULTING ENGINEERS

PRELIMINARY
NOT FOR CONSTRUCTION

MARK	DATE	DESCRIPTION
1	10/30/2014	SD OWNER REVIEW

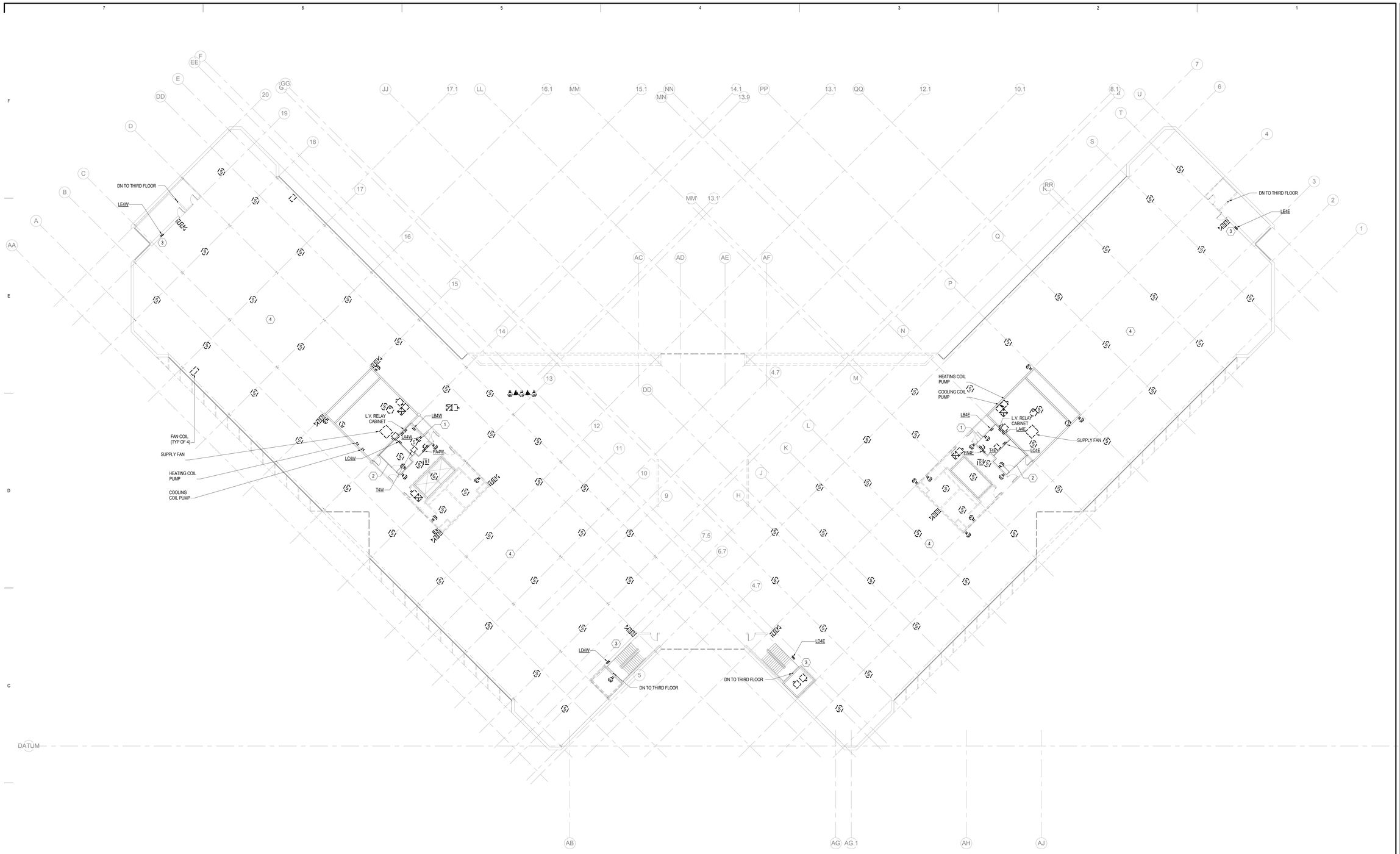
PROJECT NUMBER	
ORIGINAL ISSUE	08/28/14 -
PKG. IDENTIFIER	

OVERALL DEMOLITION POWER PLAN LEVEL 3 NORTH

SCALE As indicated

3ED130

Schematic Design



1 DEMO - POWER - HERSCHLER FOURTH FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

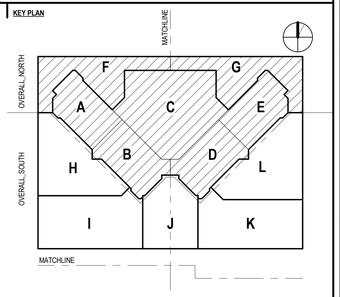
1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

# NUMBER	KEYNOTE
1.	EXISTING CORE ELECTRIC ROOM TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK.
2.	EXISTING CORE TELECOM ROOM TO REMAIN. ALL EXISTING EQUIPMENT AND CABLING TO BE REMOVED.
3.	SATELLITE ELECTRIC AND TELECOM CLOSETS TO REMAIN. REFER TO DIAGRAMS FOR ELECTRICAL DISTRIBUTION SYSTEM SCOPE OF WORK. EXISTING TELECOM EQUIPMENT AND CABLING TO BE REMOVED.
4.	EXISTING ELECTRICAL / TELECOM FLOOR CELL SYSTEM SERVED VIA ELEC / TELECOM ROOMS AND SATELLITE ELEC / TELECOM CLOSETS SHALL BE ABANDONED IN PLACE. ALL DEVICES AND CABLING SHALL BE REMOVED AND ACCESS LOCATIONS SHALL BE CAPPED AND SEALED.
5.	EXISTING DATA CENTER TO BE REMOVED BY OTHERS. SCOPE OF WORK FOR THIS AREA TO BE DETERMINED.

GRAPHIC LEGEND

KEY PLAN



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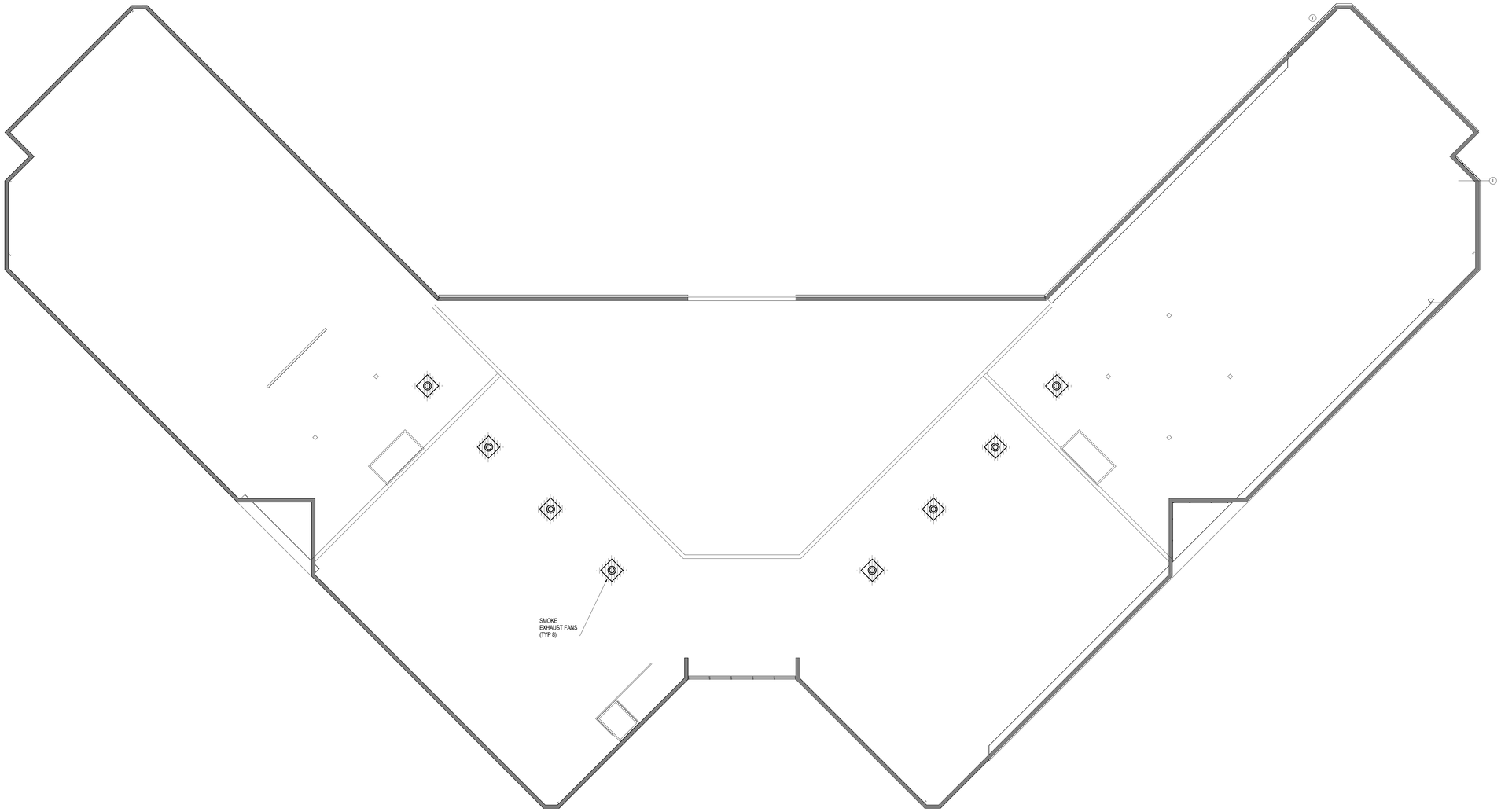
OVERALL DEMOLITION POWER PLAN LEVEL 4 NORTH

SCALE As indicated

3ED140

Schematic Design



1 OVERALL DEMOLITION POWER PLAN ROOF NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

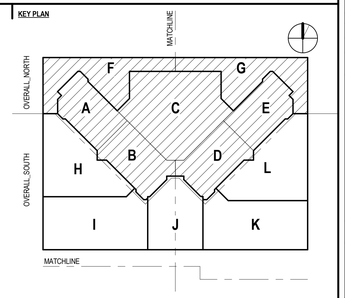
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING ELECTRICAL EQUIPMENT, FEEDERS, PANELS, CIRCUITING, DEVICES AND FIXTURES THROUGHOUT THE ENTIRE AREA OF WORK.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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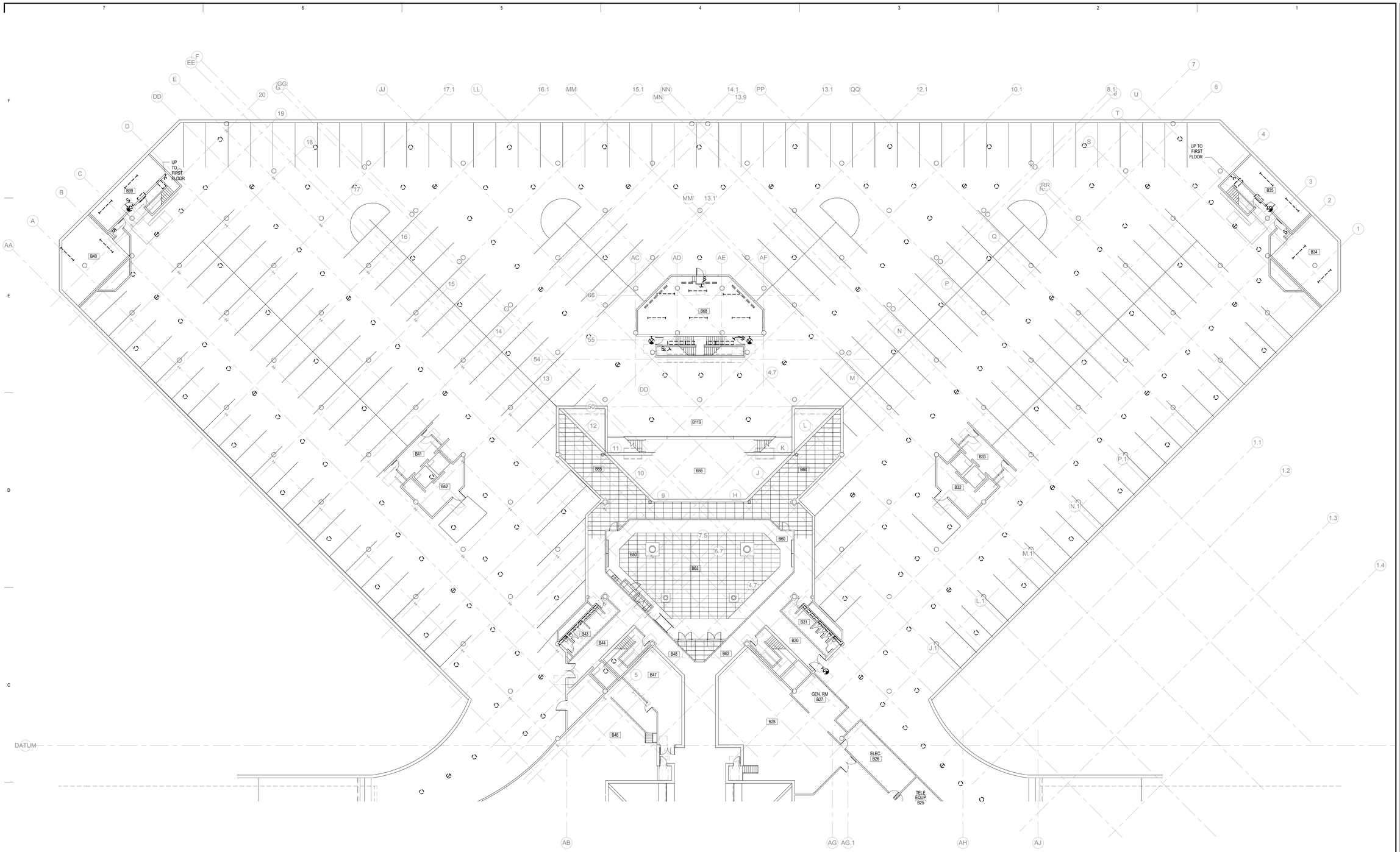
PKG. IDENTIFIER

OVERALL DEMOLITION POWER PLAN ROOF NORTH

SCALE 1/16" = 1'-0"

3ED150

Schematic Design



1 DEMO - LIGHTING- HERSCHLER LL1 - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

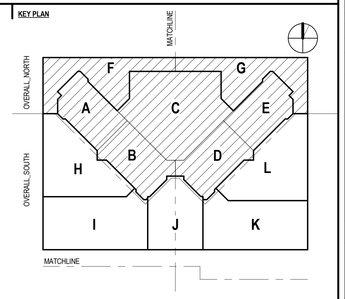
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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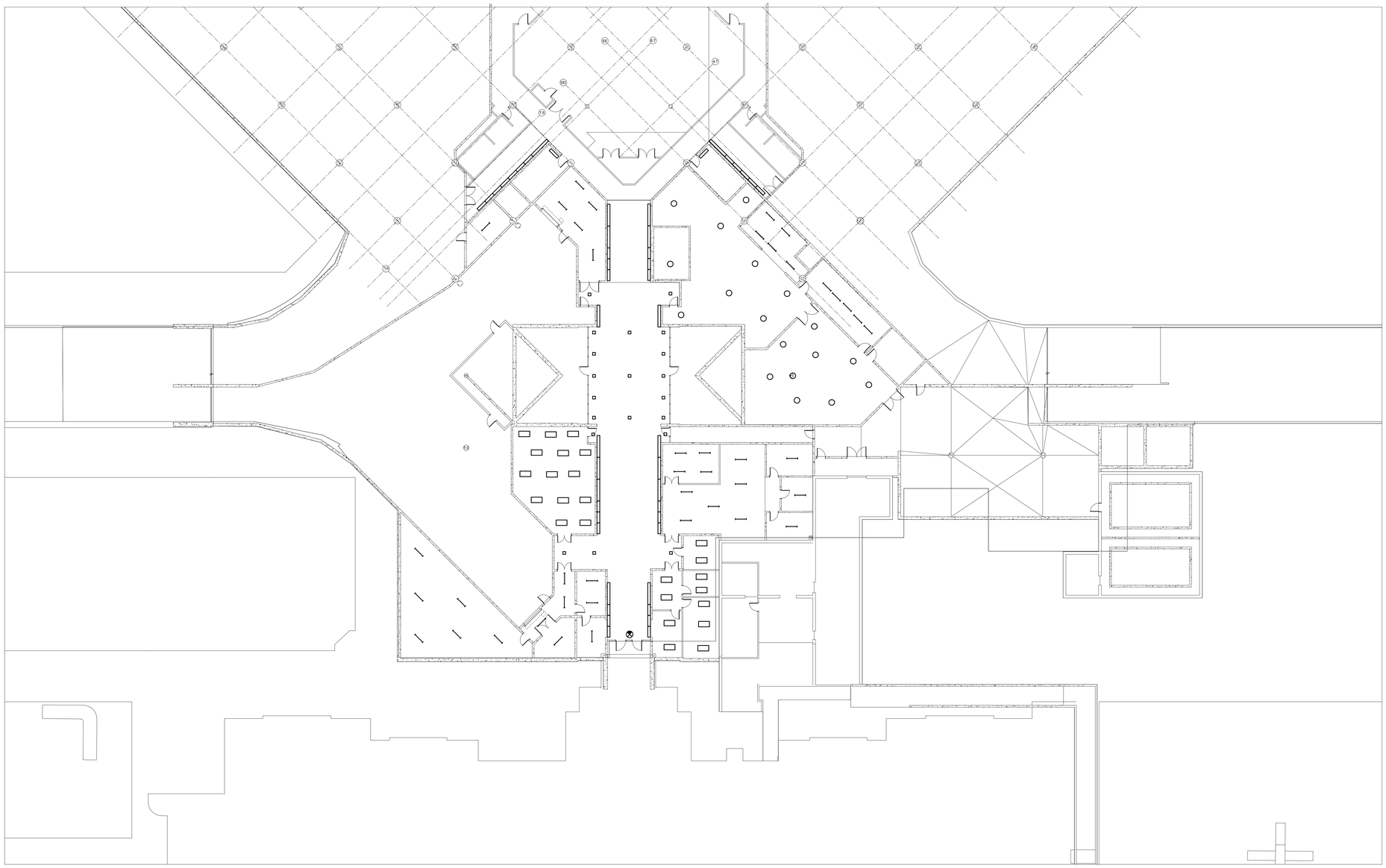
OVERALL DEMOLITION LIGHTING PLAN LOWER LEVEL 1 NORTH

SCALE 1/16" = 1'-0"

3ED200

Schematic Design



1 OVERALL DEMOLITION LIGHTING PLAN LOWER LEVEL 1 SOUTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

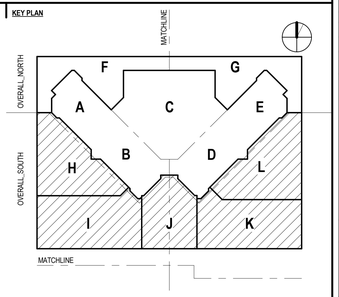
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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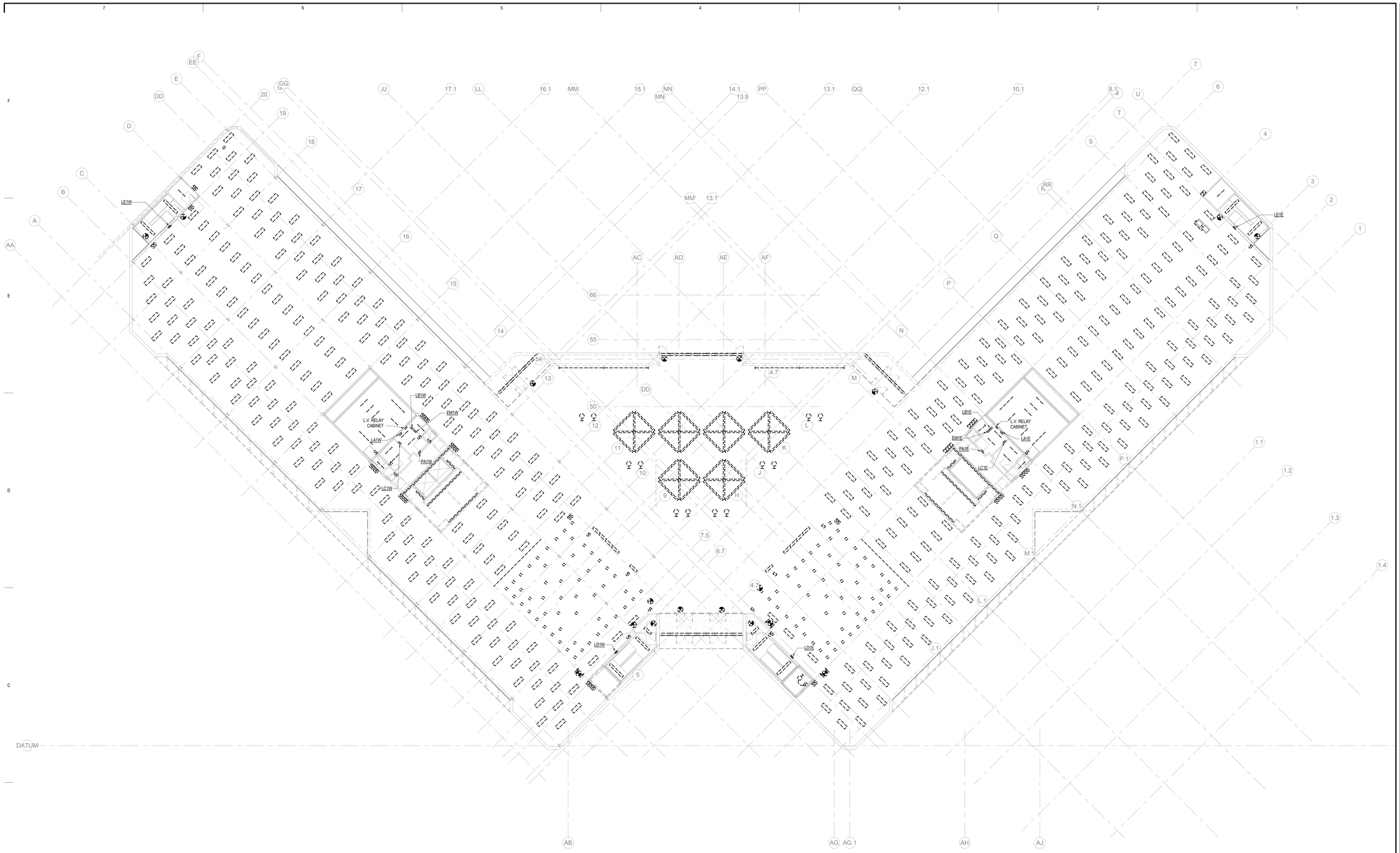
OVERALL DEMOLITION LIGHTING PLAN LOWER LEVEL 1 SOUTH

SCALE 1/16" = 1'-0"

3ED201

Schematic Design



1 DEMO - LIGHTING- HERSCHLER FIRST FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

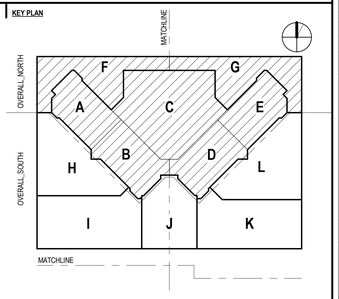
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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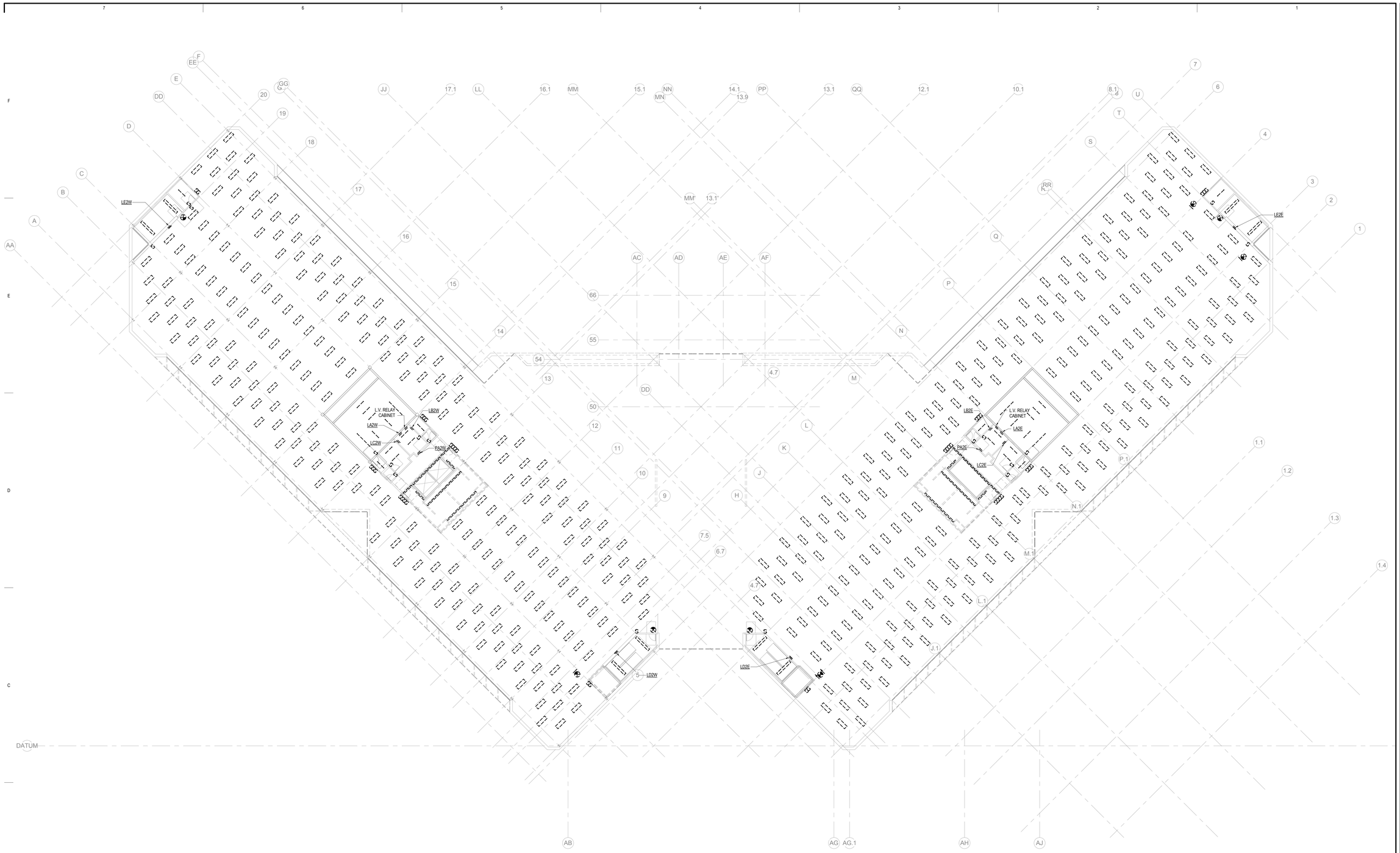
OVERALL DEMOLITION LIGHTING PLAN LEVEL 1 NORTH

SCALE 1/16" = 1'-0"

3ED210

Schematic Design



1 DEMO - LIGHTING- HERSCHLER SECOND FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

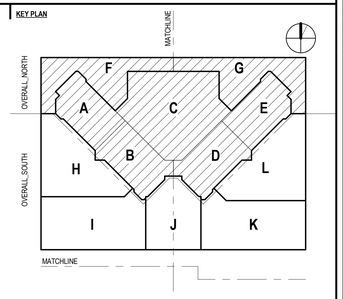
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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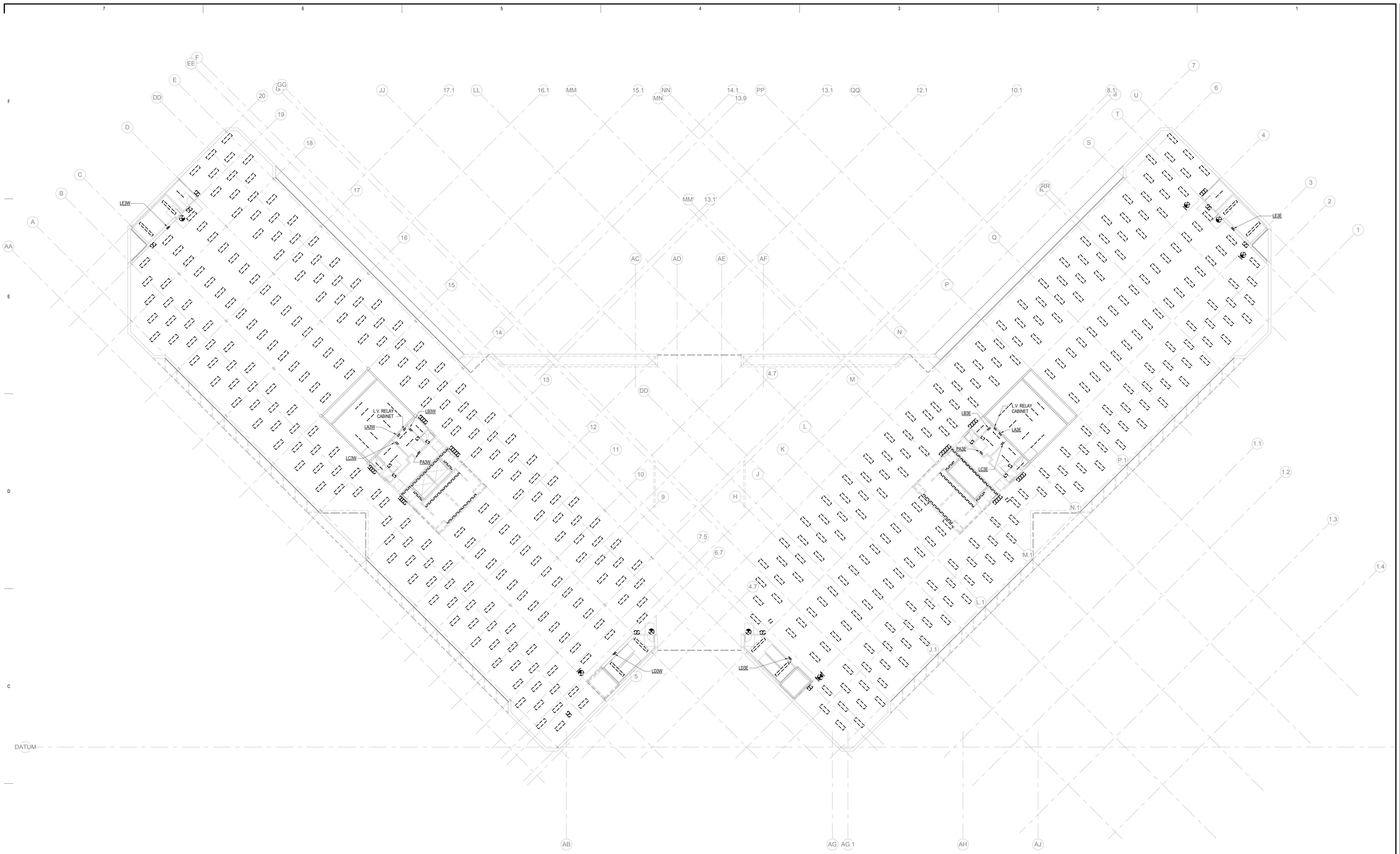
OVERALL DEMOLITION LIGHTING PLAN LEVEL 2 NORTH

SCALE 1/16" = 1'-0"

3ED220

Schematic Design



1 DEMO - LIGHTING- HERSCHLER THIRD FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

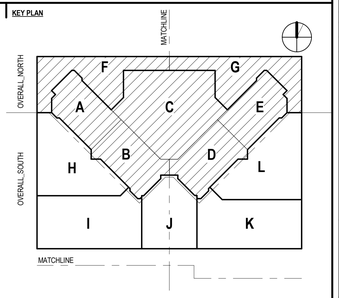
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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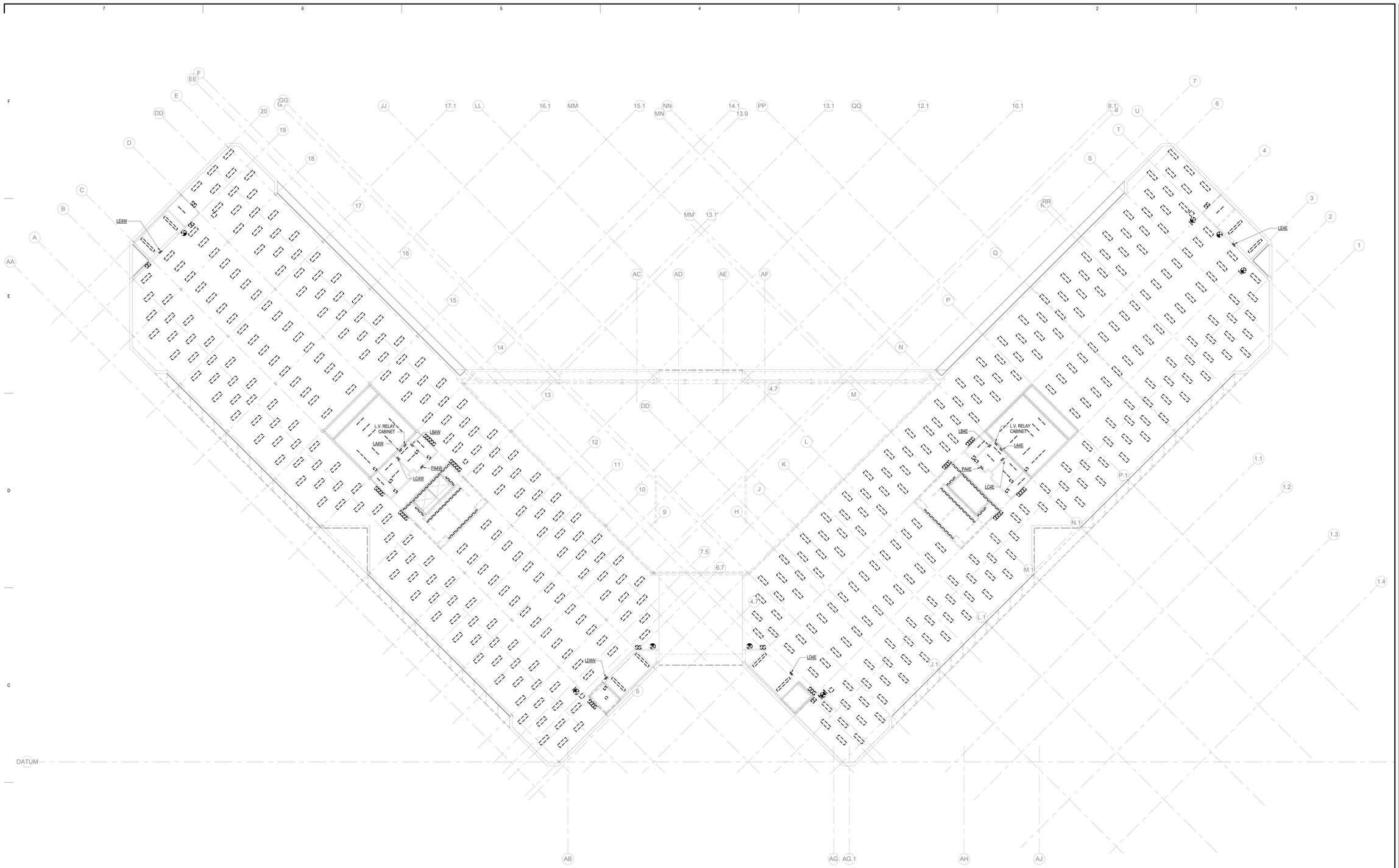
PKG. IDENTIFIER	

OVERALL DEMOLITION LIGHTING PLAN LEVEL 3 NORTH

SCALE 1/16" = 1'-0"

3ED230

Schematic Design



1 DEMO - LIGHTING- HERSCHLER FOURTH FLOOR - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

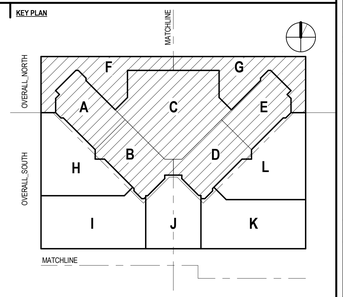
GENERAL NOTES

1. REFER TO DRAWING 3EI002 FOR GENERAL DEMOLITION NOTES.
2. UNLESS OTHERWISE NOTED, THE ELECTRICAL DEMOLITION SCOPE OF WORK SHALL INCLUDE THE REMOVAL OF ALL EXISTING LIGHTING FIXTURES, CONTROLS, AND ALL ASSOCIATED WIRING AND CONDUIT.
3. THE EXISTING CONDITIONS SHOWN ARE FOR SCOPE REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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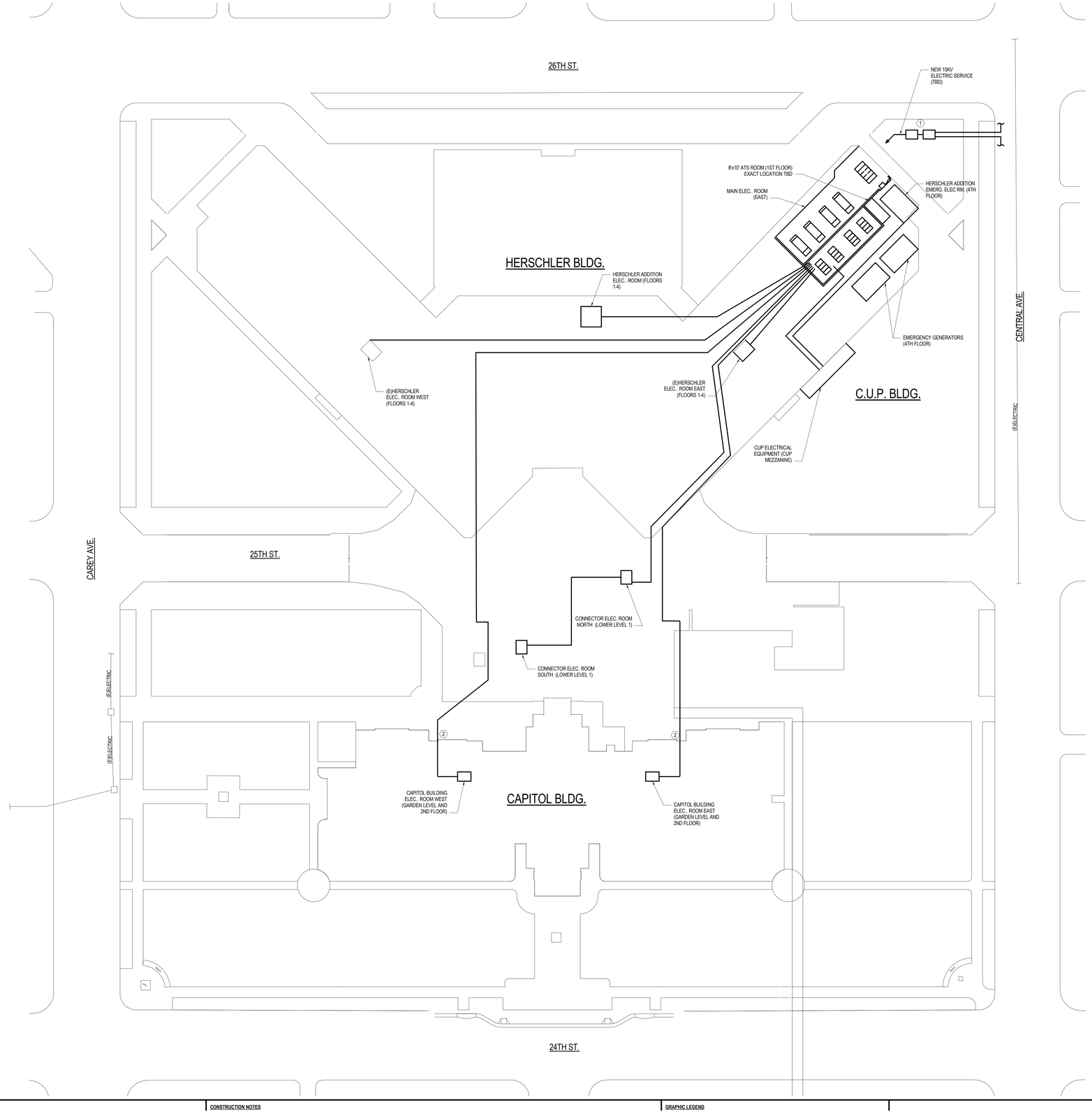
OVERALL DEMOLITION LIGHTING PLAN LEVEL 4 NORTH

SCALE 1/16" = 1'-0"

3ED240

Schematic Design



GENERAL NOTES

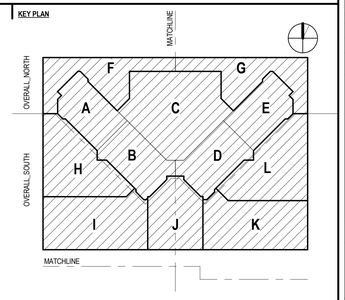
1. EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE / CIVIL ENGINEER.
2. ROUTINGS SHOWN ON THE DRAWING ARE FOR DIAGRAMMATIC PURPOSES ONLY AND REPRESENT GENERAL FEEDER CONNECTIONS TO MAIN ELECTRICAL DISTRIBUTION EQUIPMENT AT THE COMPLEX. REFER TO PLANS AND DIAGRAMS FOR FEEDER QUANTITIES, TYPES AND RATINGS.

CONSTRUCTION NOTES

NUMBER	KEYNOTE
1.	NEW 15kV ELECTRIC UTILITY SERVICE. LOCATION AND PHYSICAL PROTECTION FOR (2) APPROX. 6'X8'X4' PAD MOUNTED UTILITY COMPANY EQUIPMENT ENCLOSURES TO BE DETERMINED.
2.	REFER TO CAPITOL BUILDING 2-SERIES DRAWINGS FOR WORK ASSOCIATED WITH CAPITOL BUILDING.

GRAPHIC LEGEND

KEY PLAN



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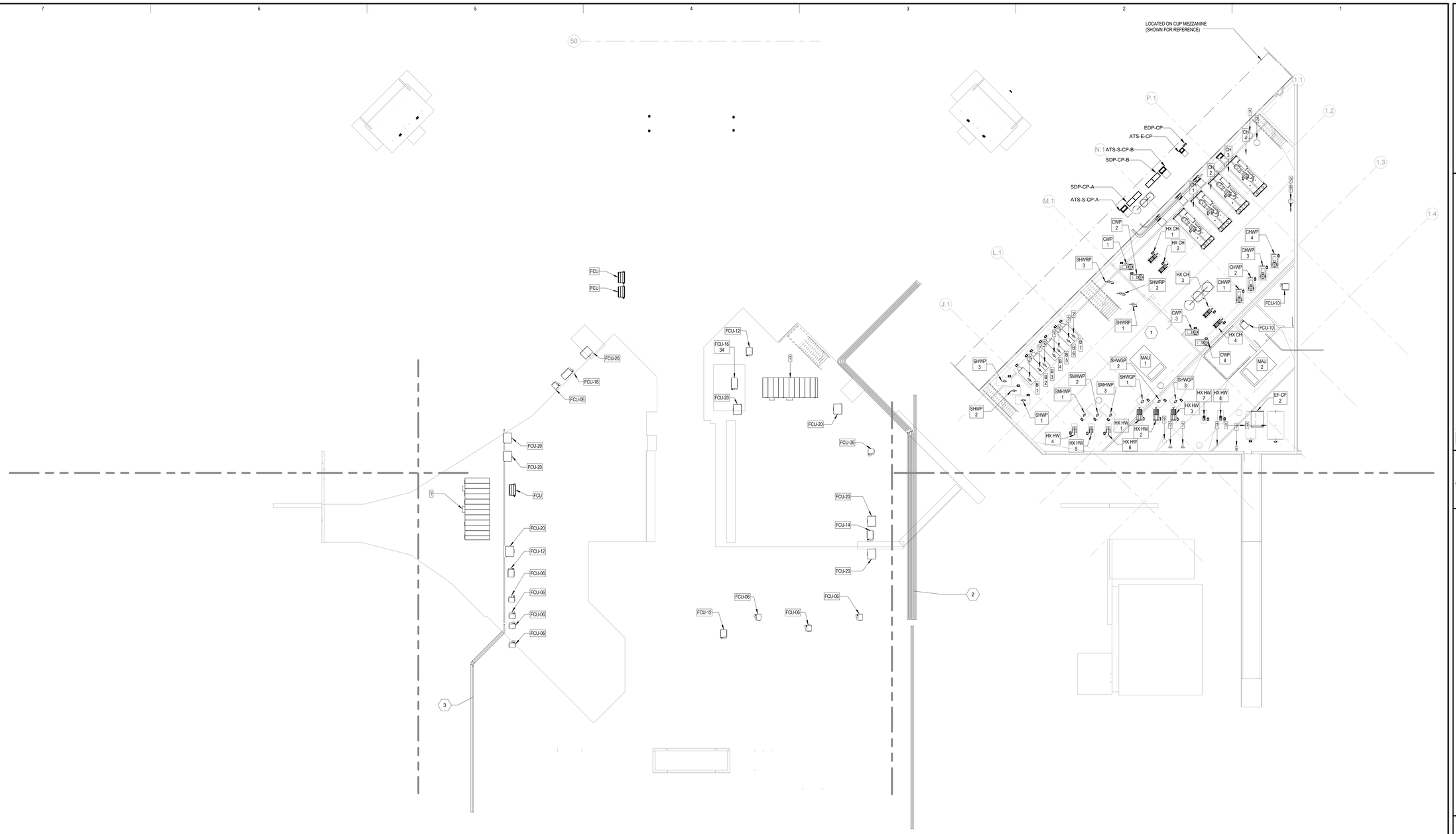
OVERALL PLAN - SITE

SCALE As indicated

3EP010

Schematic Design



1 POWER - CUP LOWER LEVEL 2 - OVERALL SOUTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

1. EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE / CIVIL ENGINEER.
2. ROUTINGS SHOWN ON THE DRAWING ARE FOR DIAGRAMMATIC PURPOSES ONLY AND REPRESENT GENERAL FEEDER CONNECTIONS TO MAIN ELECTRICAL DISTRIBUTION EQUIPMENT AT THE COMPLEX. REFER TO PLANS AND DIAGRAMS FOR FEEDER QUANTITIES, TYPES AND RATINGS.

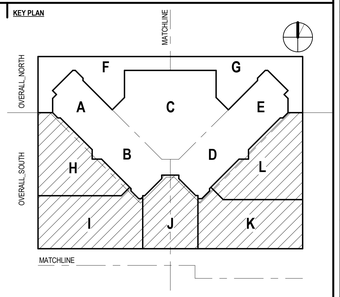
CONSTRUCTION NOTES

(#)

NUMBER	KEYNOTE
1	ALL MECHANICAL EQUIPMENT TO BE SERVED FROM ELECTRICAL EQUIPMENT AT CUP MEZZANINE.
2	TO CAPITOL BUILDING EAST
3	TO CAPITOL BUILDING WEST

GRAPHIC LEGEND

KEY PLAN



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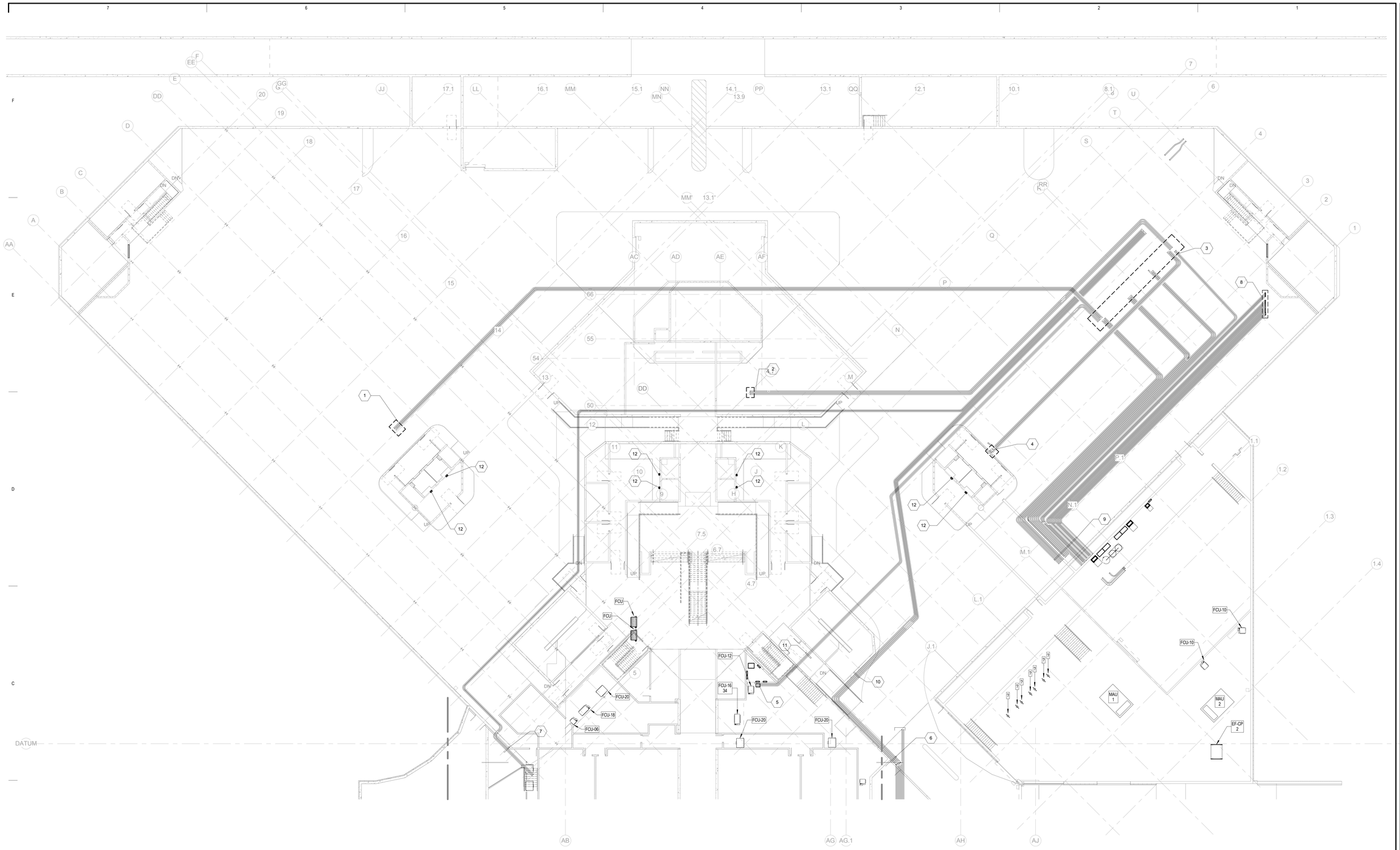
OVERALL PLAN - LOWER LEVEL 2 - SOUTH

SCALE As indicated

3EP10L

Schematic Design



1 POWER - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

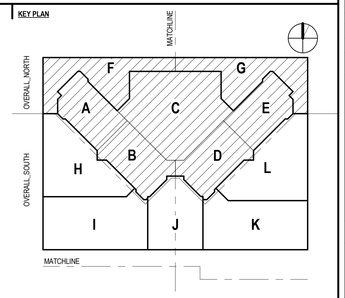
CONSTRUCTION NOTES

#

NUMBER	KEYNOTE
1	EXISTING HERSCHLER WEST BUS DUCT
2	HERSCHLER ADDITION BUS DUCT
3	UP TO SUBSTATIONS ON FIRST FLOOR
4	EXISTING HERSCHLER EAST BUS DUCT
5	HERSCHLER CONNECTOR
6	TO CAPITOL BUILDING EAST
7	TO CAPITOL BUILDING WEST
8	UP TO FOURTH FLOOR EMERGENCY EQUIPMENT ROOM
9	TO CUP ELECTRICAL EQUIPMENT
10	TO CAPITOL BUILDING
11	TO CONNECTOR ELECTRICAL EQUIPMENT
12	ELEVATOR CONTROLLER

GRAPHIC LEGEND

KEY PLAN



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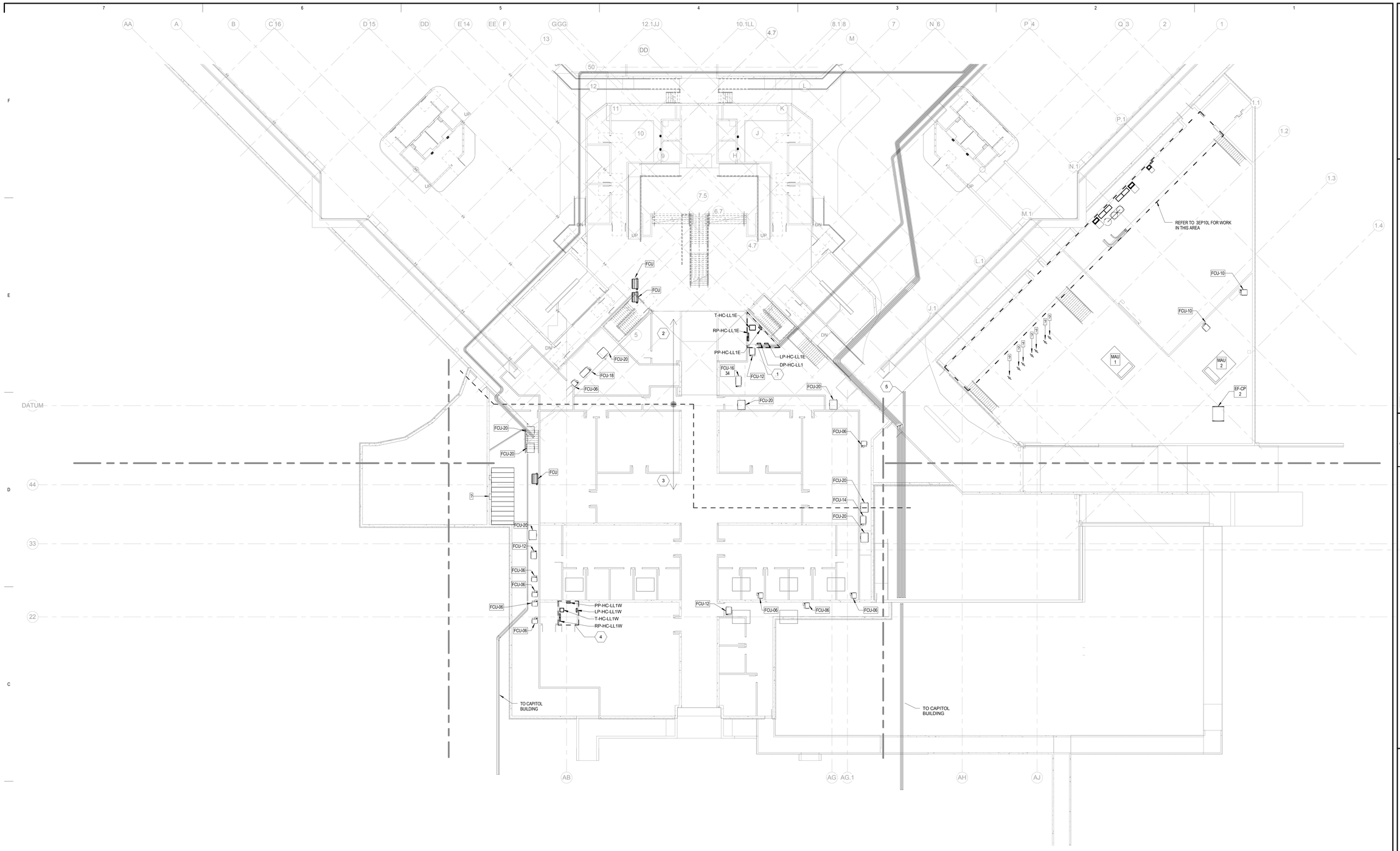
ORIGINAL ISSUE	08/28/14 -
PKG. IDENTIFIER	

OVERALL PLAN - LOWER LEVEL 1 - NORTH

SCALE As indicated

3EP100

Schematic Design



1 POWER - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

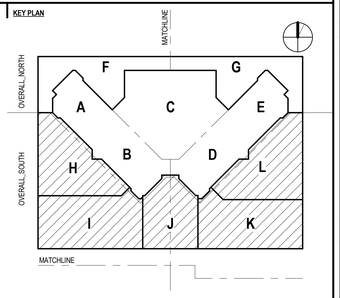
CONSTRUCTION NOTES

#

NUMBER	KEYNOTE
1	CONNECTOR ELECTRIC ROOM
2	ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, AND MECHANICAL EQUIPMENT WITHIN THIS AREA SHALL BE FED FROM CONNECTOR SOUTH ELECTICAL ROOM
3	ALL ELECTRICAL DEVICES, LIGHTING FIXTURES, AND MECHANICAL EQUIPMENT WITHIN THIS AREA SHALL BE FED FROM CONNECTOR NORTH ELECTICAL ROOM
4	CONNECTOR SOUTH ELECTRIC ROOM
5	TO MAIN ELECTRICAL ROOM

GRAPHIC LEGEND

KEY PLAN



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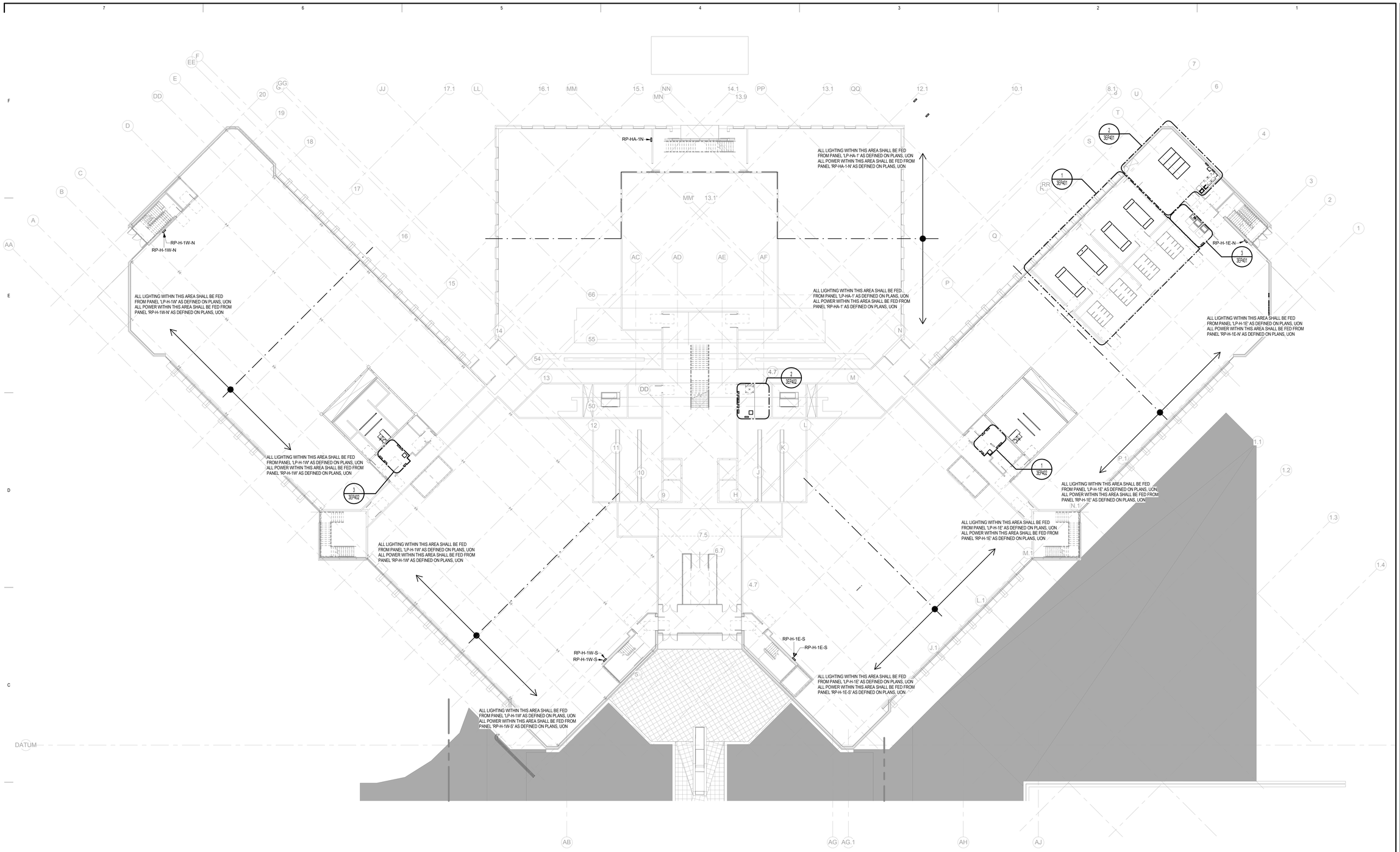
OVERALL PLAN - LOWER LEVEL 1 - SOUTH

SCALE As indicated

3EP101

Schematic Design



1 POWER - HERSCHLER FIRST FLOOR - OVEARLL NORTH
1/16" = 1'-0"

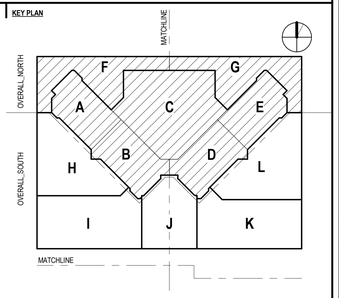
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3EP110

Schematic Design

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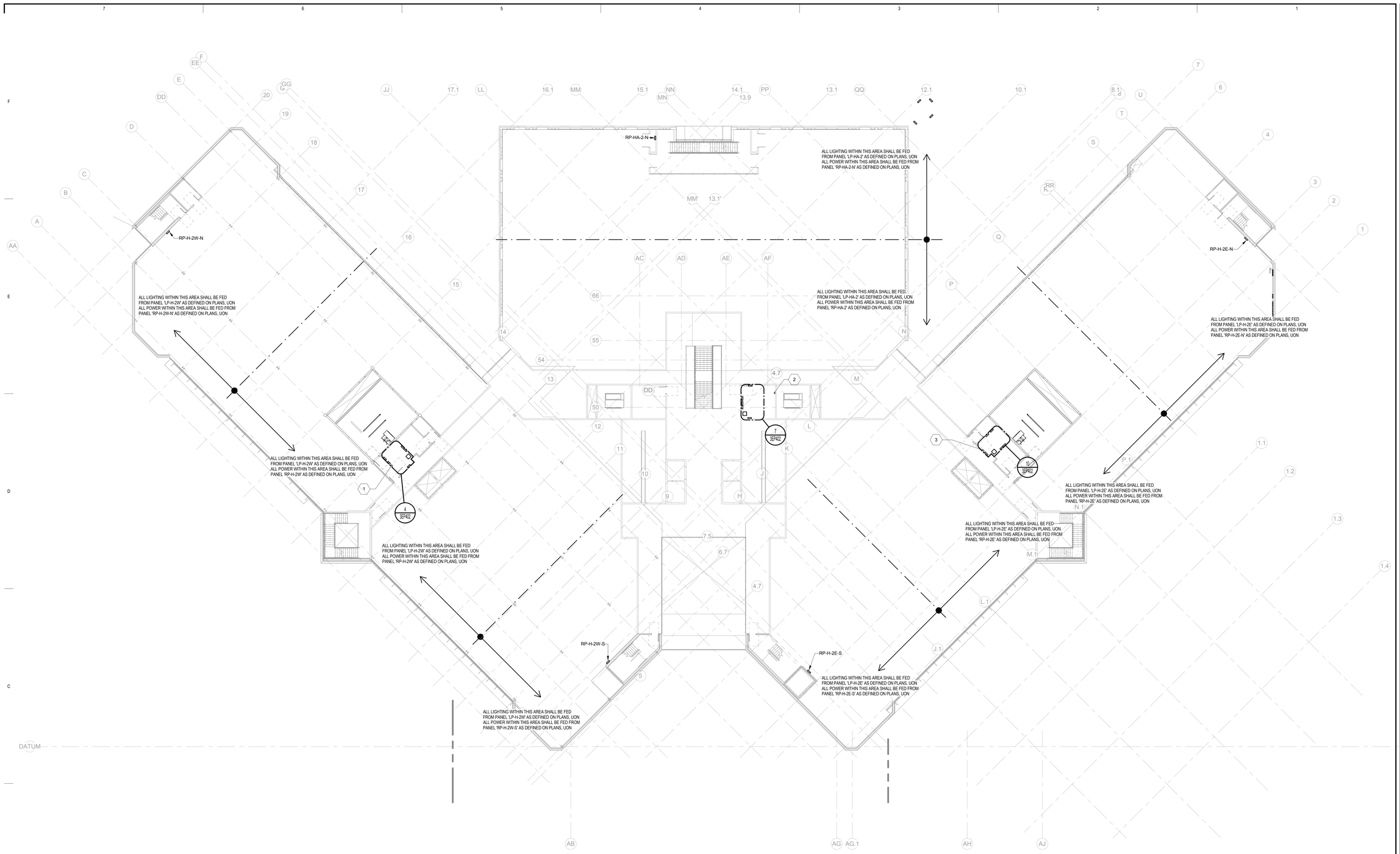


1 POWER - HERSCHLER SECOND FLOOR - OVEARLL NORTH
1/16" = 1'-0"

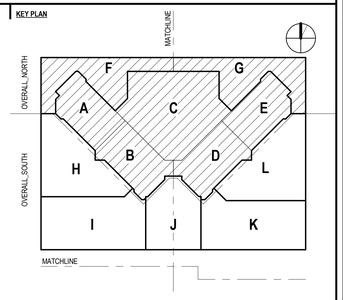
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 2 - NORTH

SCALE 1/16" = 1'-0"

3EP120

Schematic Design

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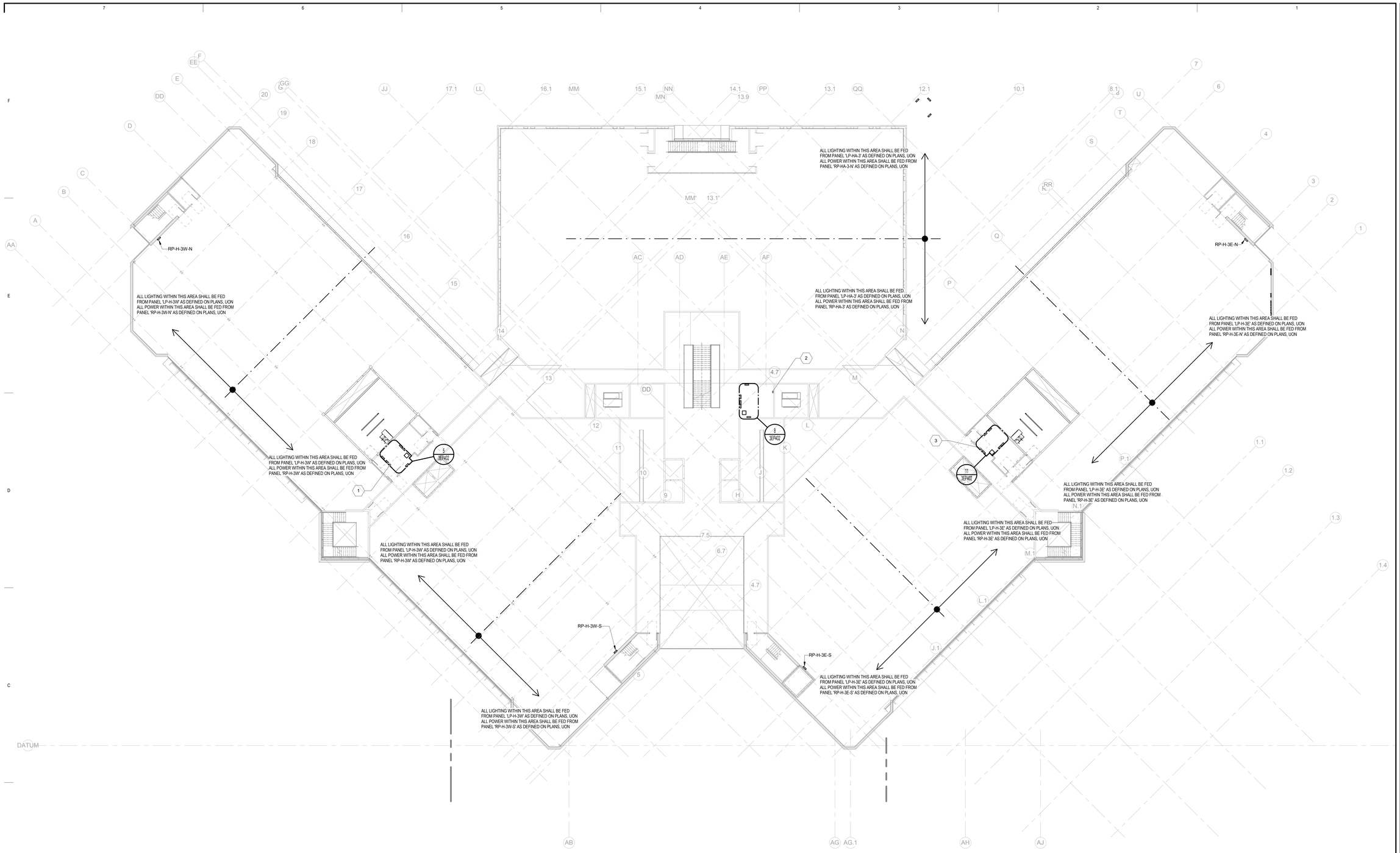


1 POWER - HERSCHLER THIRD FLOOR - OVEARLL NORTH
1/16" = 1'-0"

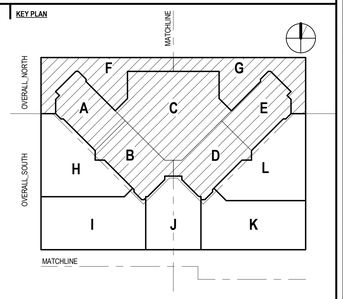
12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 3 - NORTH

SCALE 1/16" = 1'-0"

3EP130

Schematic Design

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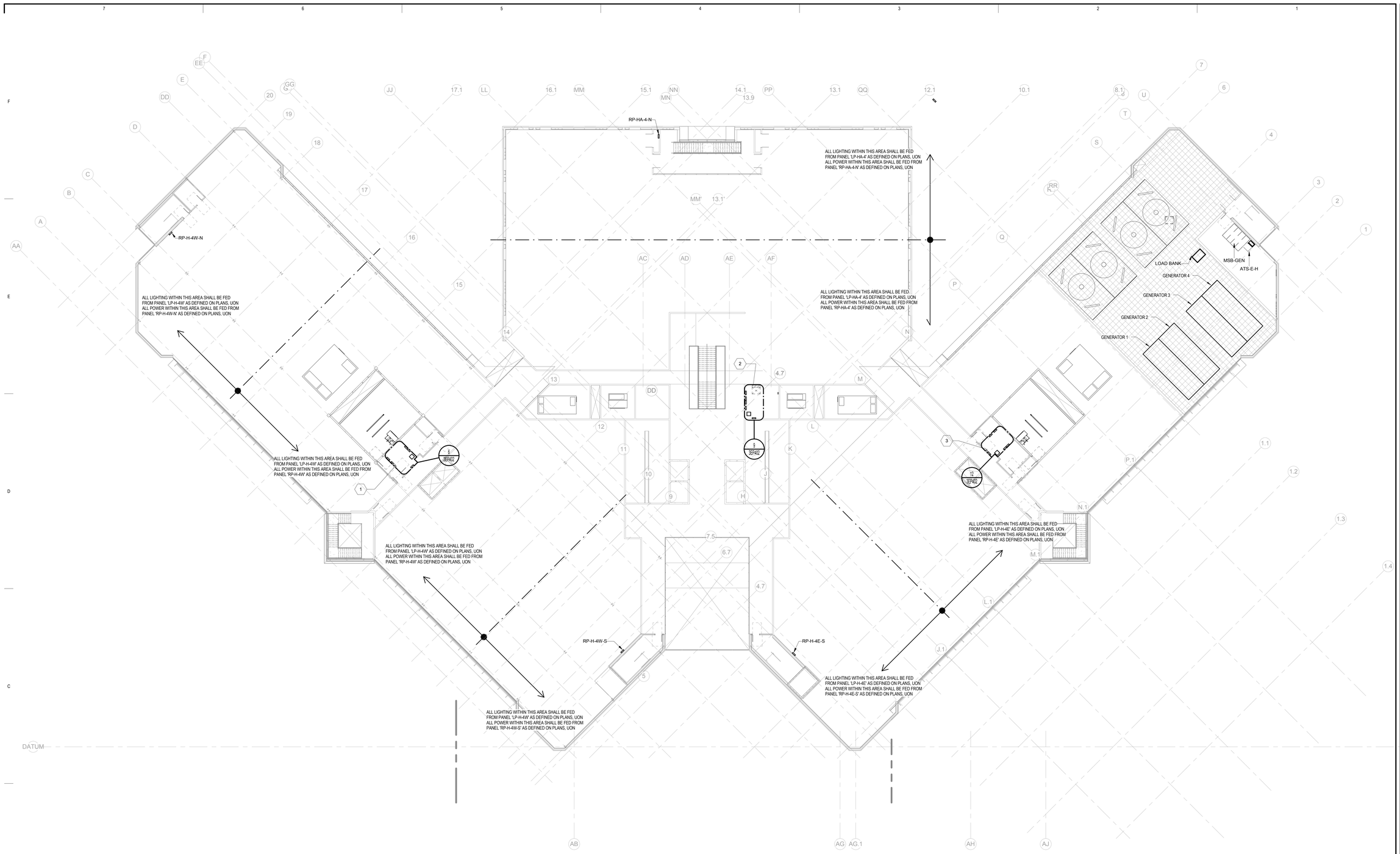


1 POWER - HERSCHLER FOURTH FLOOR - OVEARLL NORTH
1/16" = 1'-0"

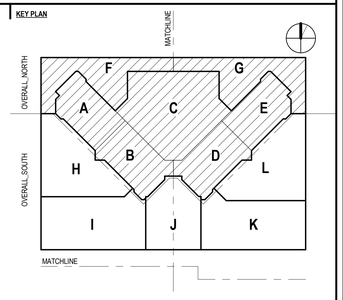
12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - LEVEL 4 - NORTH

SCALE 1/16" = 1'-0"

3EP140

Schematic Design

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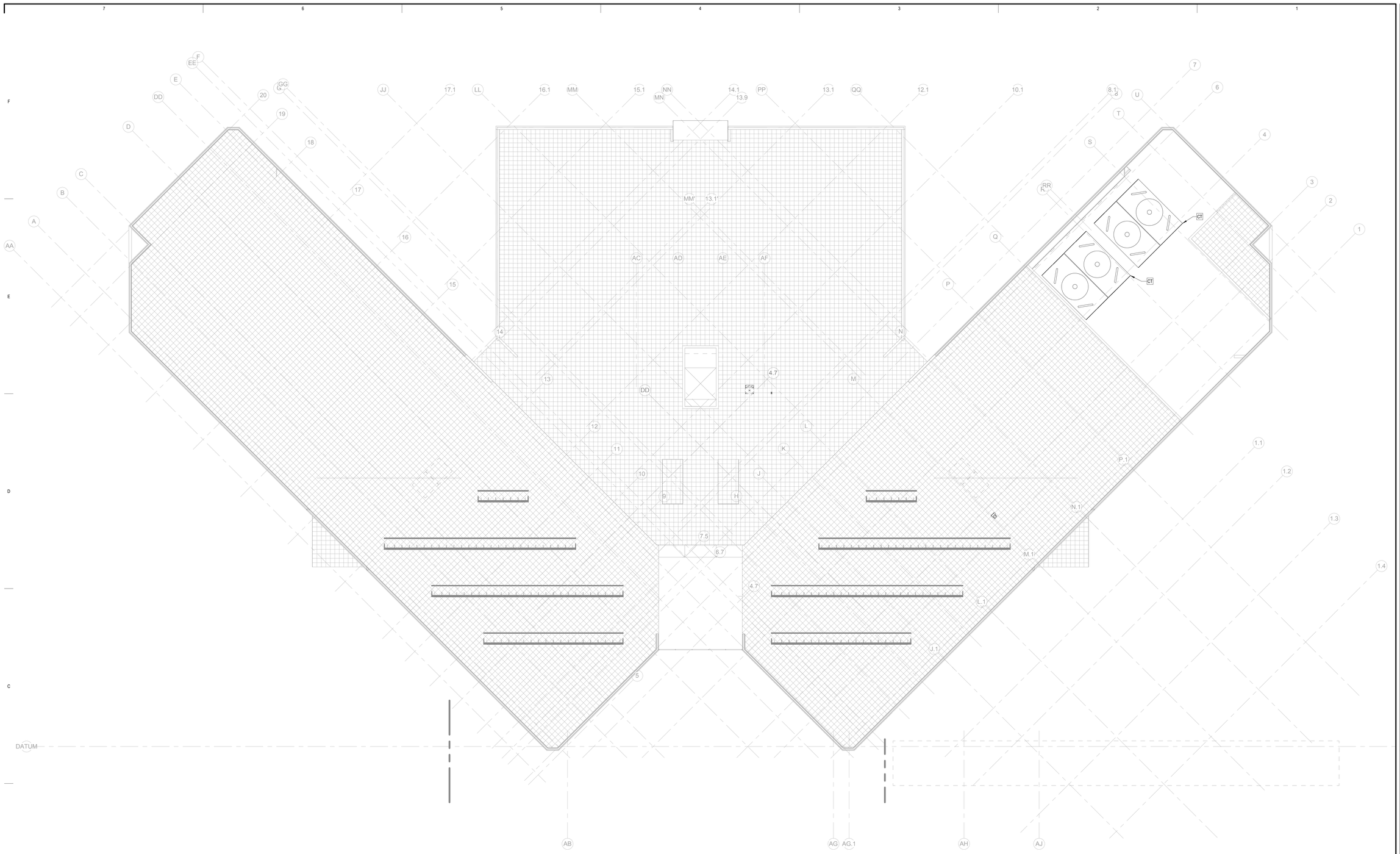


1 POWER - HERSCHLER ROOF - OVEARLL NORTH
1/16" = 1'-0"

12'-0" 4'-0" 16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

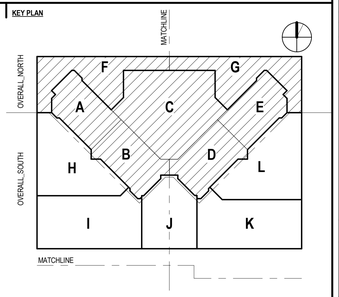
GENERAL NOTES

1. ALL LIGHTING WITHIN THIS AREA SHALL BE FED FROM PANEL 'LX' AS DEFINED ON PLANS, UNLESS OTHERWISE NOTED.
2. ALL POWER WITHIN THIS AREA SHALL BE FED FROM PANEL 'RX' AS DEFINED ON PLANS, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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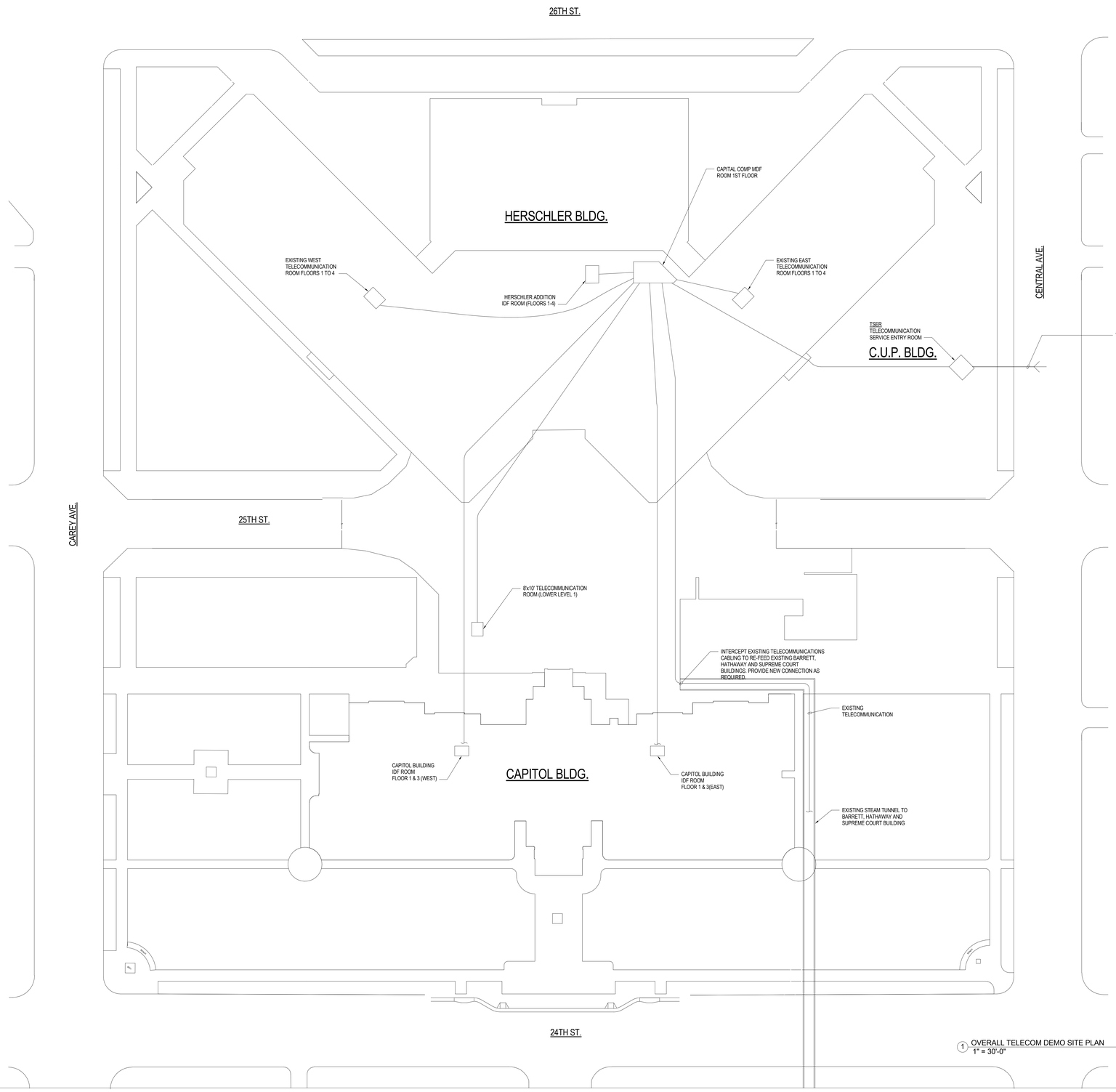
OVERALL PLAN - ROOF - NORTH

SCALE 1/16" = 1'-0"

3EP150

Schematic Design



1 OVERALL TELECOM DEMO SITE PLAN
1" = 30'-0"

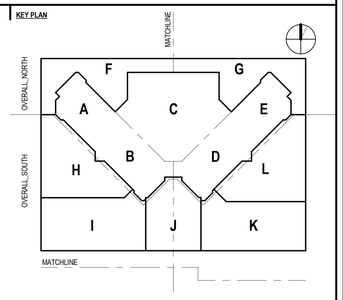
GENERAL NOTES

1. EXISTING UTILITIES ON THE PROJECT SITE AND IN THE STREETS INCLUDING SIZES AND INVERT ELEVATION NOTATIONS ARE REFERENCED FROM EXISTING DOCUMENTS AND SHALL BE VERIFIED AND CONFIRMED BY THE SITE / CIVIL ENGINEER.
2. WORK SHOWN ON THIS DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. REFER TO PLANS AND DIAGRAMS FOR ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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OVERALL PLAN - SITE

SCALE 1" = 30'-0"

3EC010

Schematic Design

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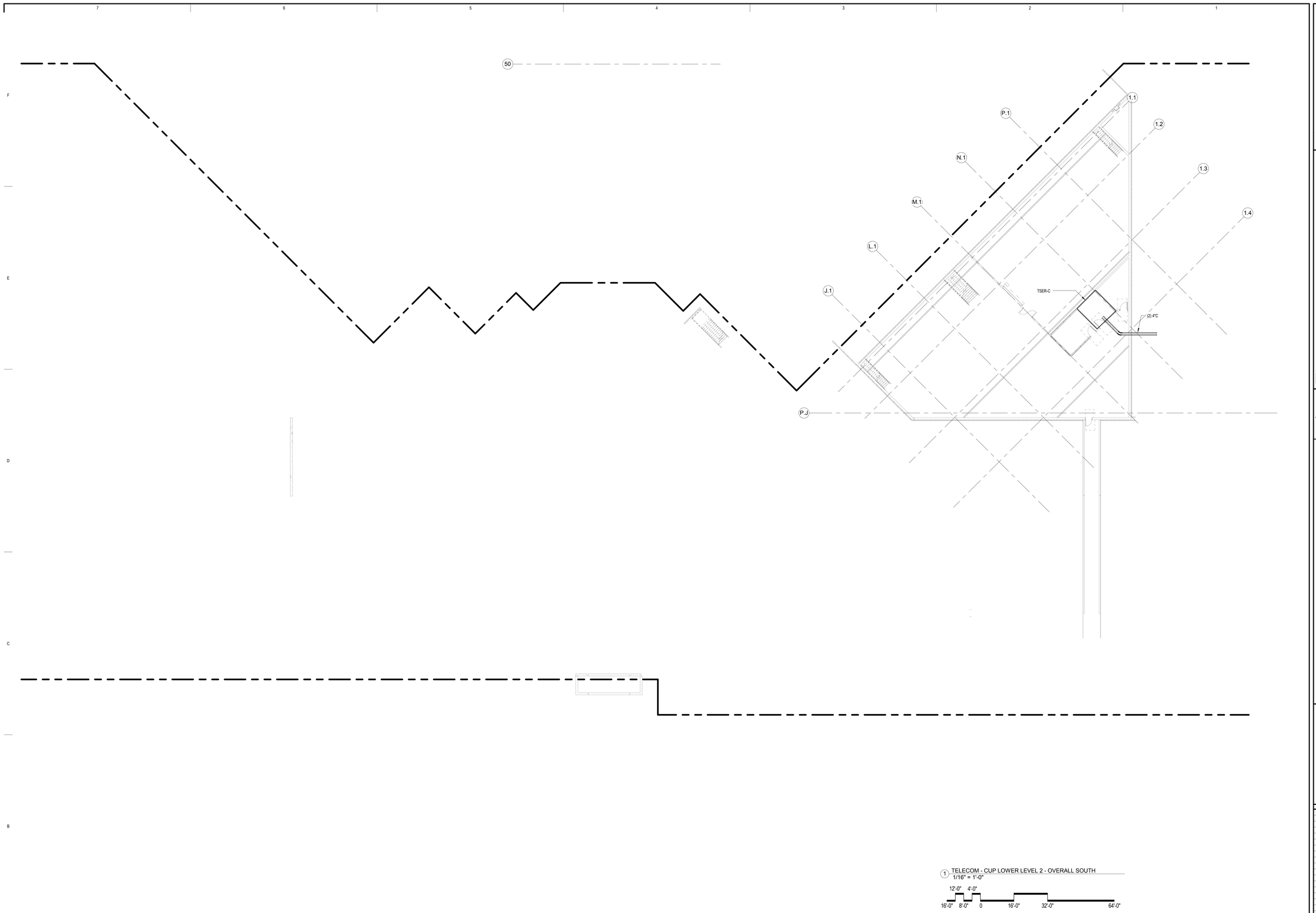


1 TELECOM - CUP LOWER LEVEL 2 - OVERALL SOUTH
1/16" = 1'-0"

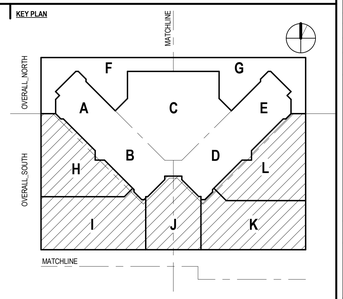
GENERAL NOTES

1. REFER TO DRAWINGS 3EC010 & 3EX621 FOR CONNECTIONS BETWEEN TSER, MDF, AND IDF ROOMS.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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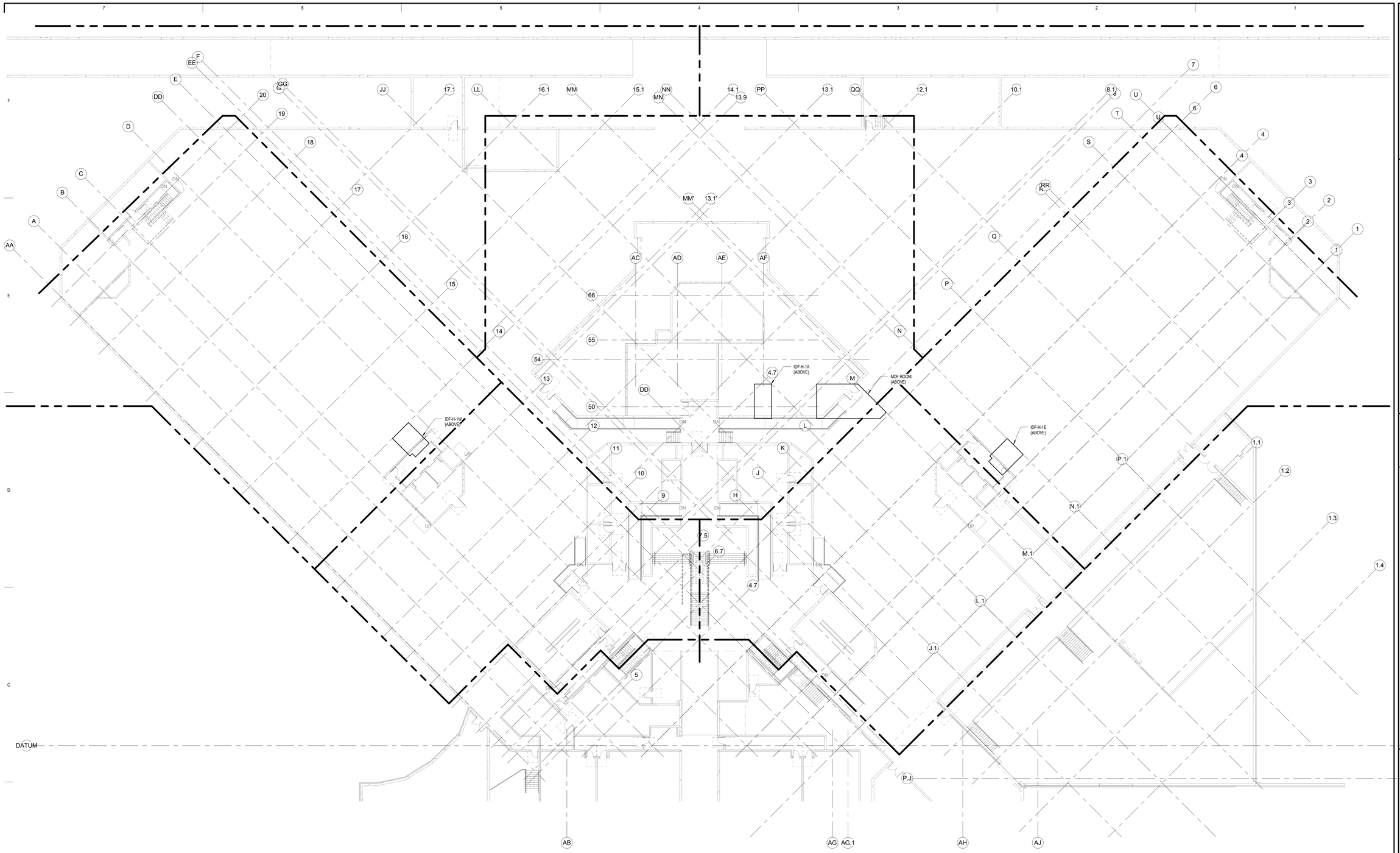
OVERALL COMMUNICATION PLAN - LOWER LEVEL 2 - SOUTH

SCALE 1/16" = 1'-0"

3EC10L

Schematic Design



1 TELECOM - CUP LOWER LEVEL - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

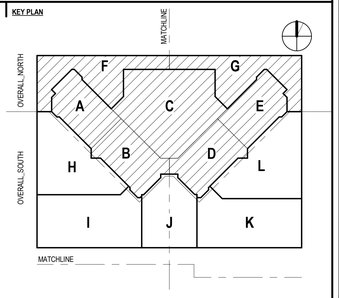
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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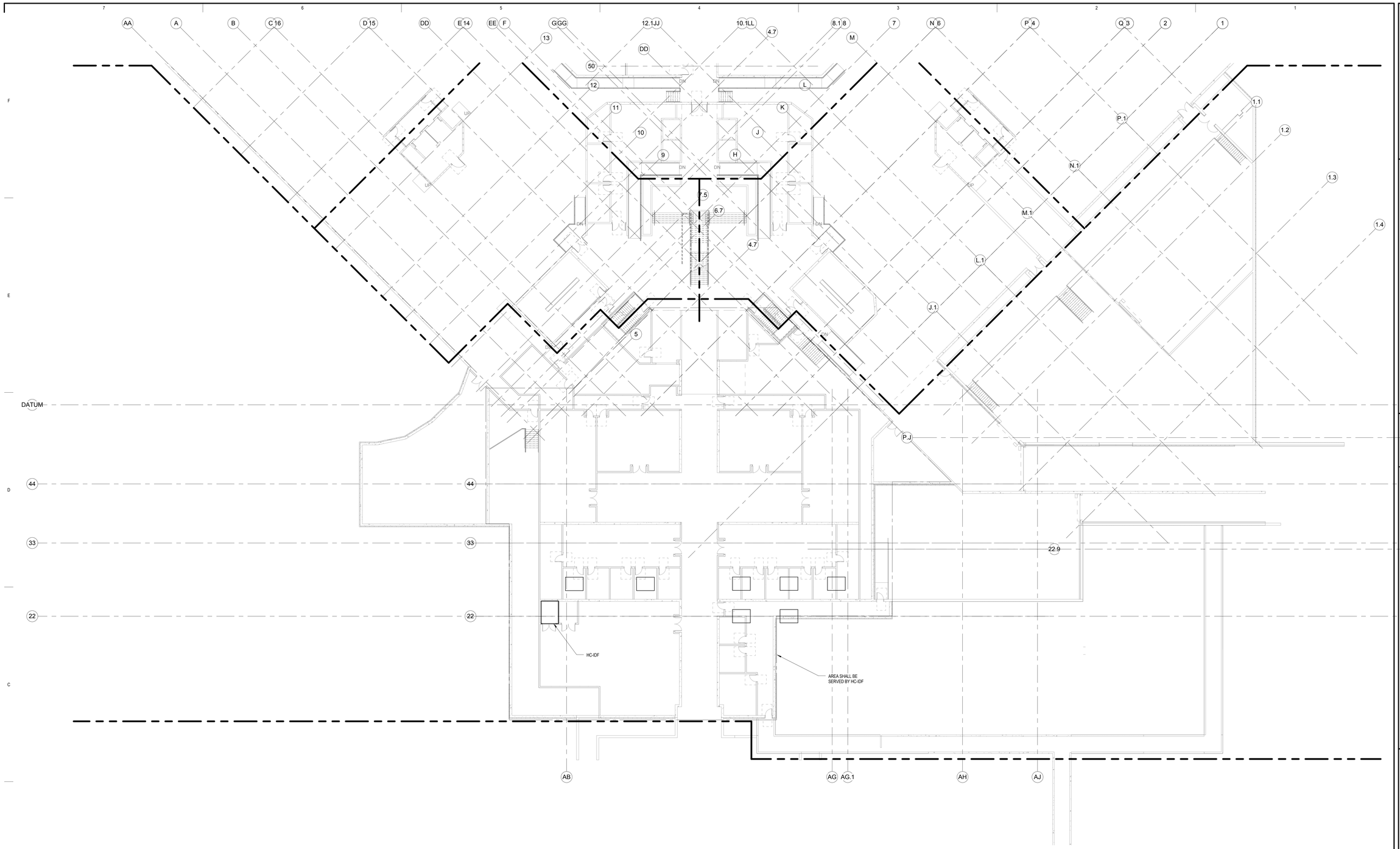
OVERALL COMMUNICATION PLAN - LOWER LEVEL 1 - NORTH

SCALE 1/16" = 1'-0"

3EC100

Schematic Design



1 TELECOM - CUP LOWER LEVEL - OVERALL SOUTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

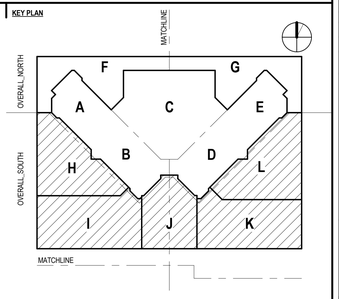
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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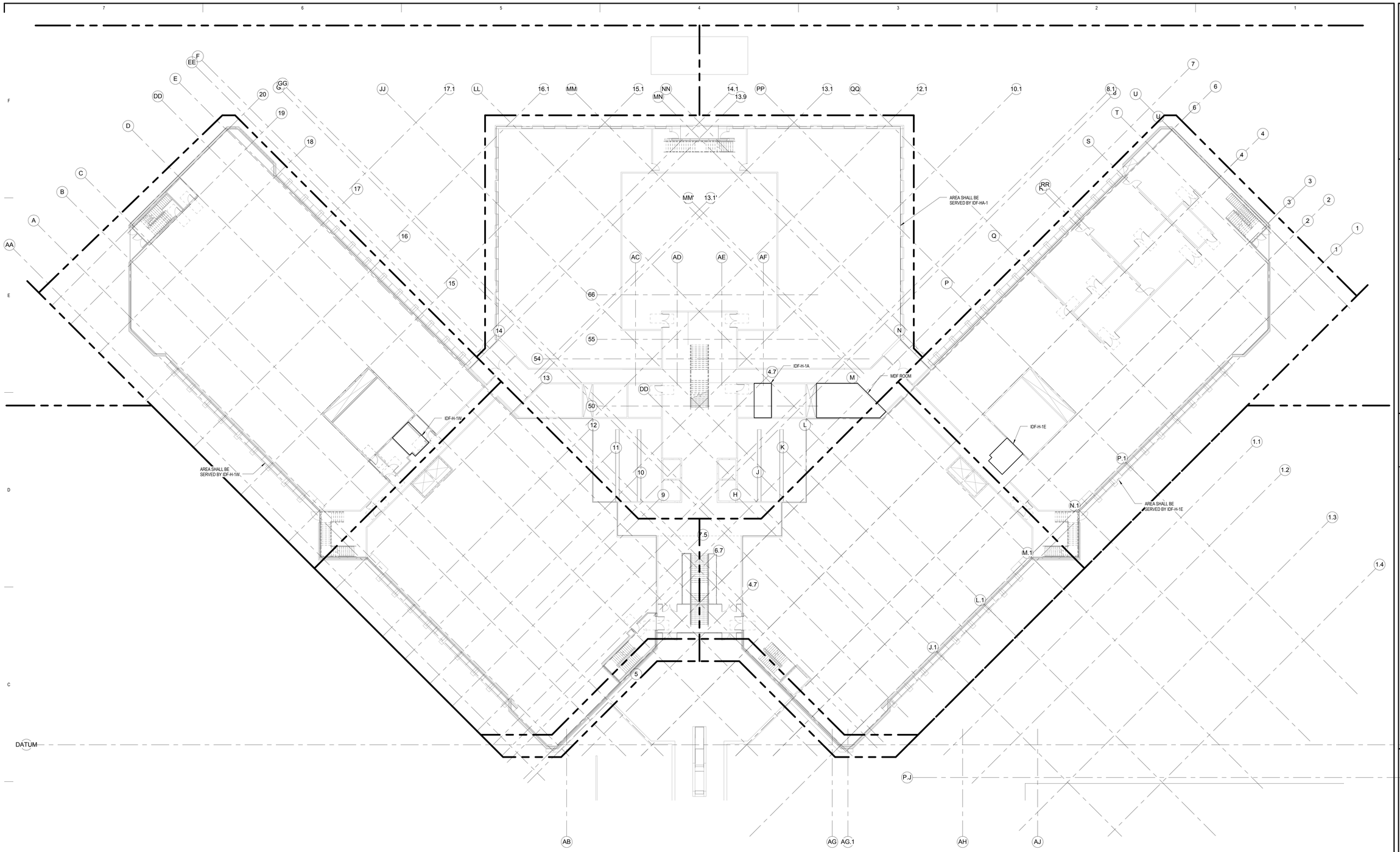
OVERALL COMMUNICATION PLAN - LOWER LEVEL 1 - SOUTH

SCALE 1/16" = 1'-0"

3EC101

Schematic Design



1 TELECOM - HERSCHLER FIRST FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

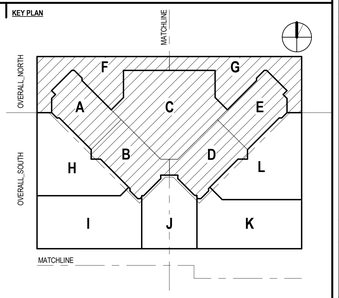
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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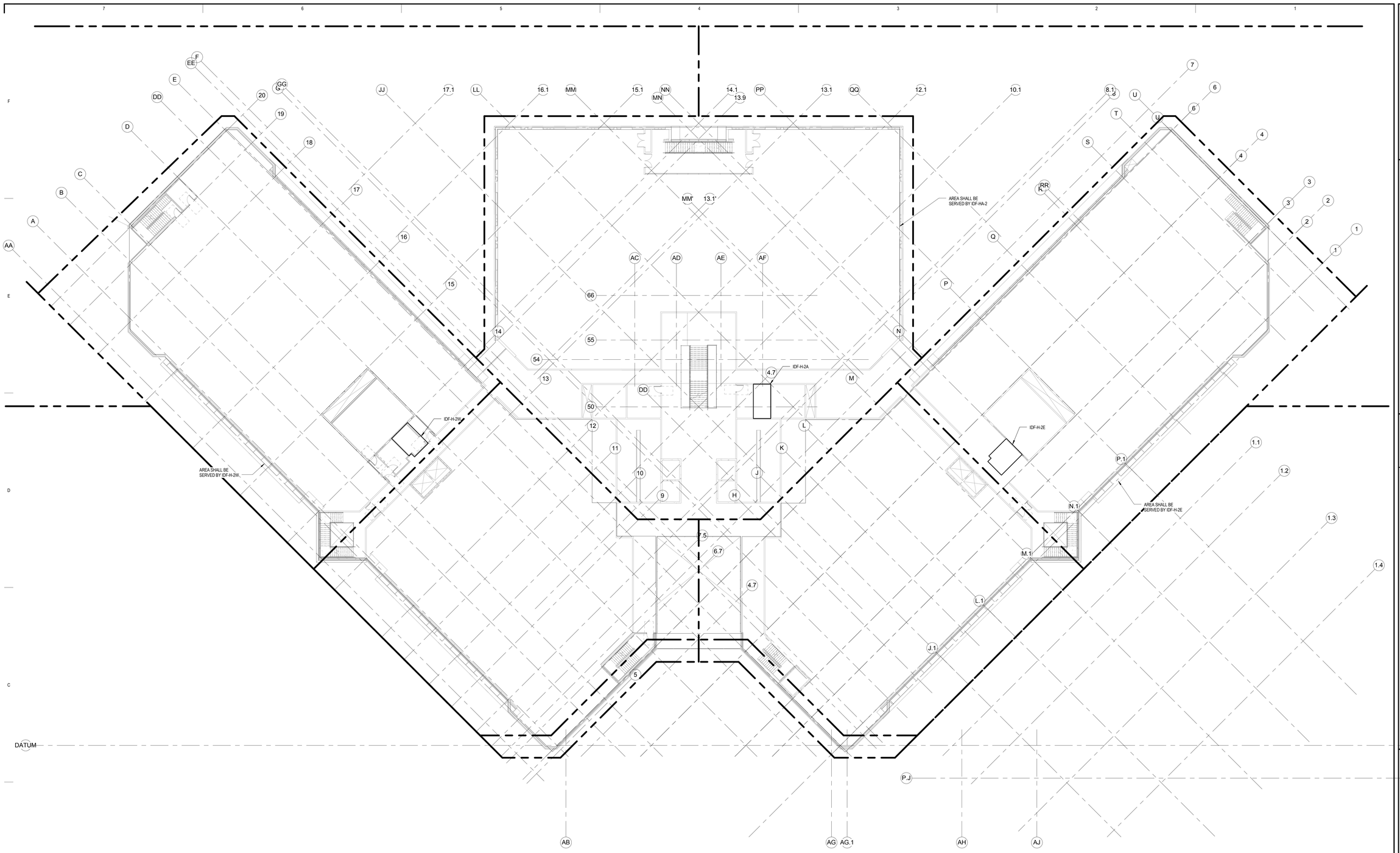
OVERALL COMMUNICATION PLAN - LEVEL 1 - NORTH

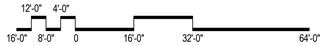
SCALE 1/16" = 1'-0"

3EC110

Schematic Design



1 TELECOM - HERSCHLER SECOND FLOOR - OVERALL NORTH
1/16" = 1'-0"



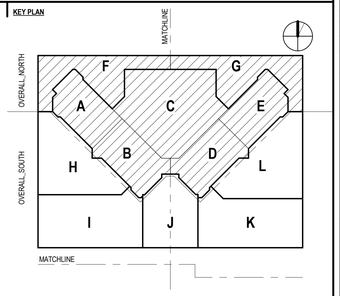
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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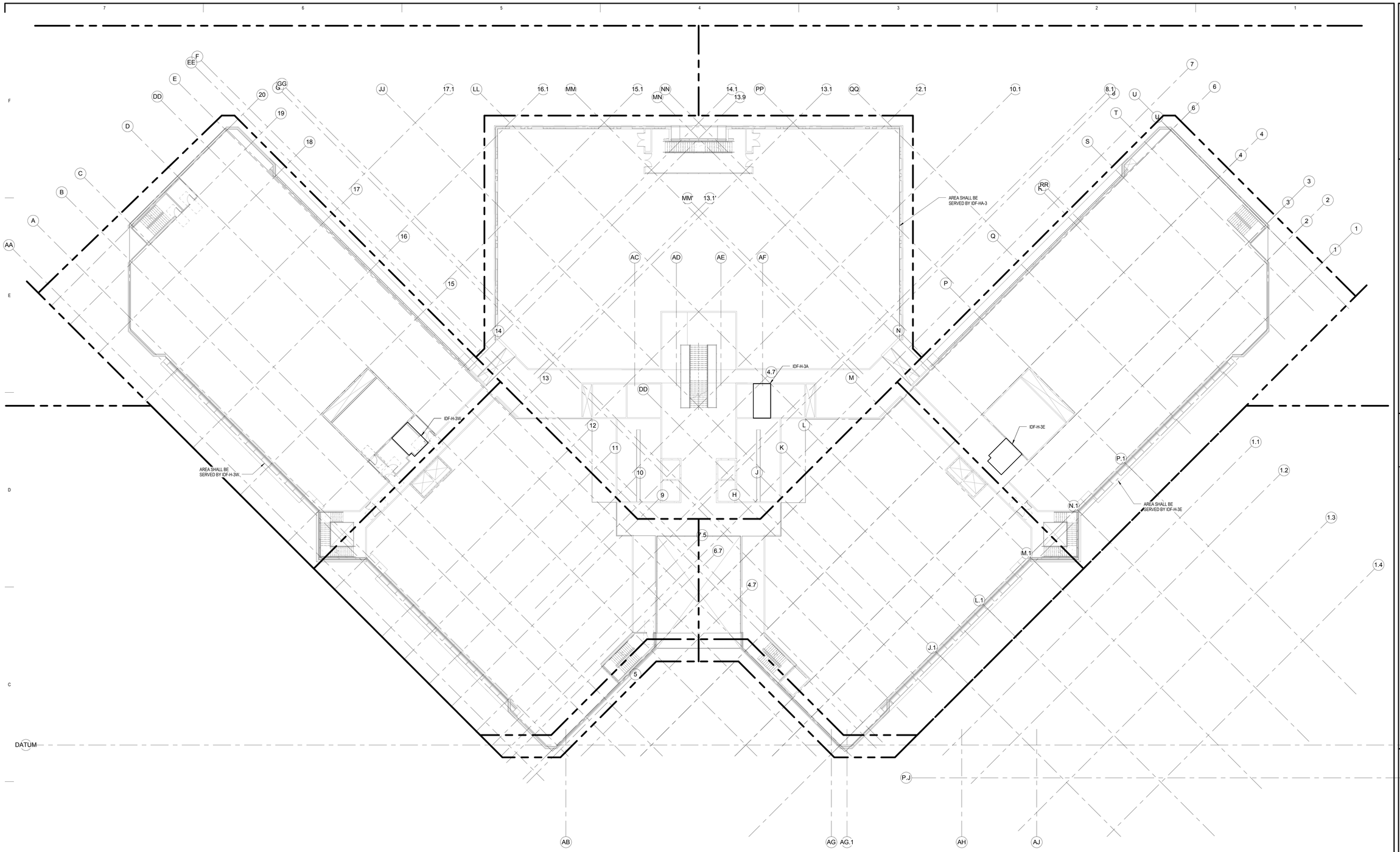
OVERALL COMMUNICATION PLAN - LEVEL 2 - NORTH

SCALE 1/16" = 1'-0"

3EC120

Schematic Design



1 TELECOM - HERSCHLER THIRD FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

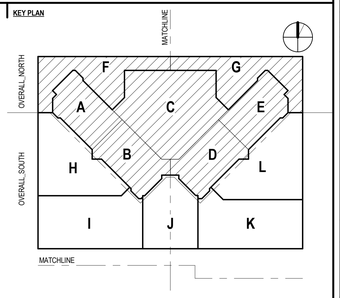
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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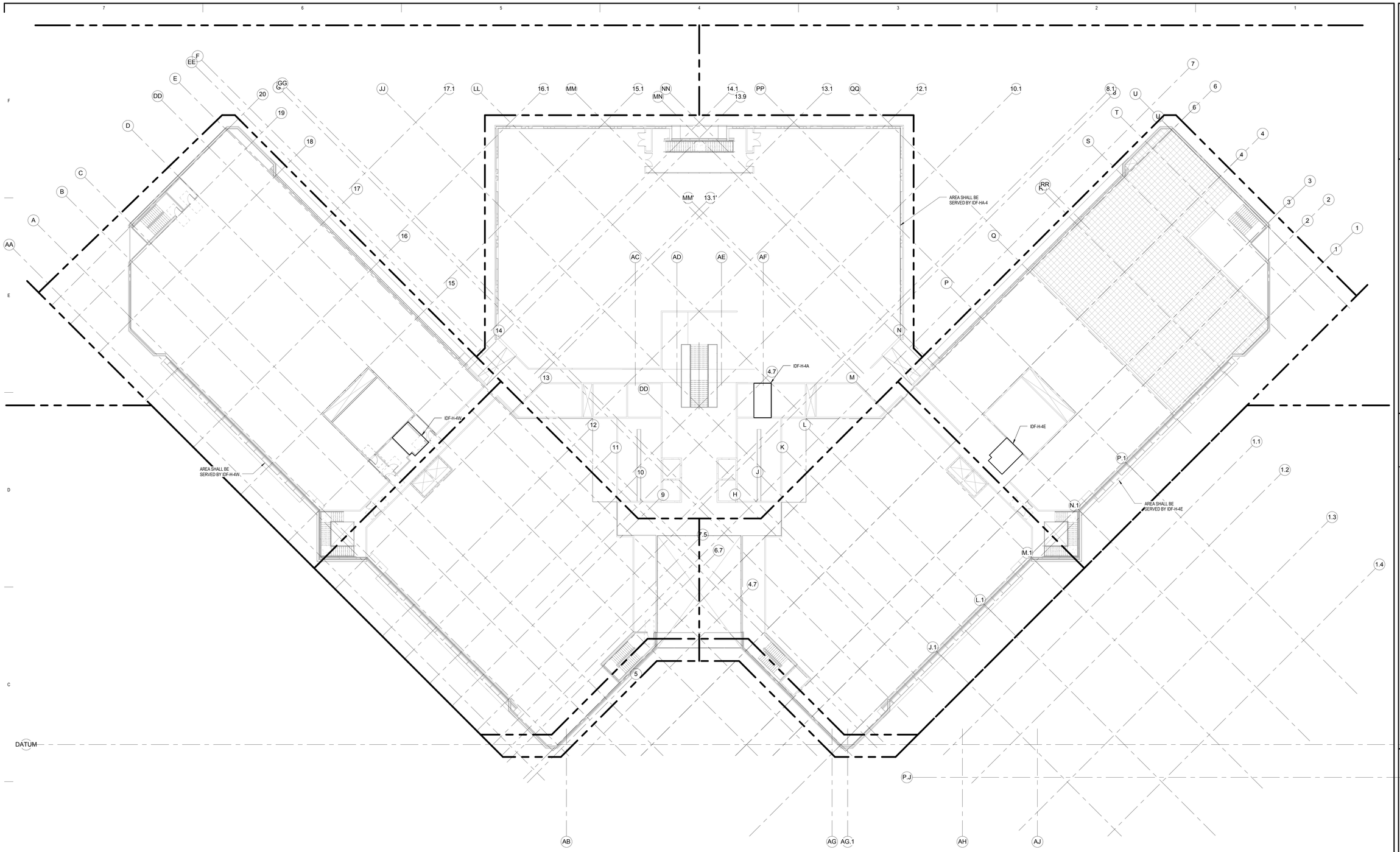
OVERALL COMMUNICATION PLAN - LEVEL 3 - NORTH

SCALE 1/16" = 1'-0"

3EC130

Schematic Design



1 TELECOM - HERSCHLER FOURTH FLOOR - OVERALL NORTH
1/16" = 1'-0"

12'-0" 4'-0"
16'-0" 8'-0" 0 16'-0" 32'-0" 64'-0"

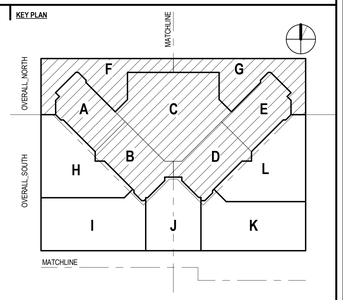
GENERAL NOTES

1. REFER TO DRAWINGS 3EX621 FOR CABLE ROUTINGS AND ADDITIONAL INFORMATION.

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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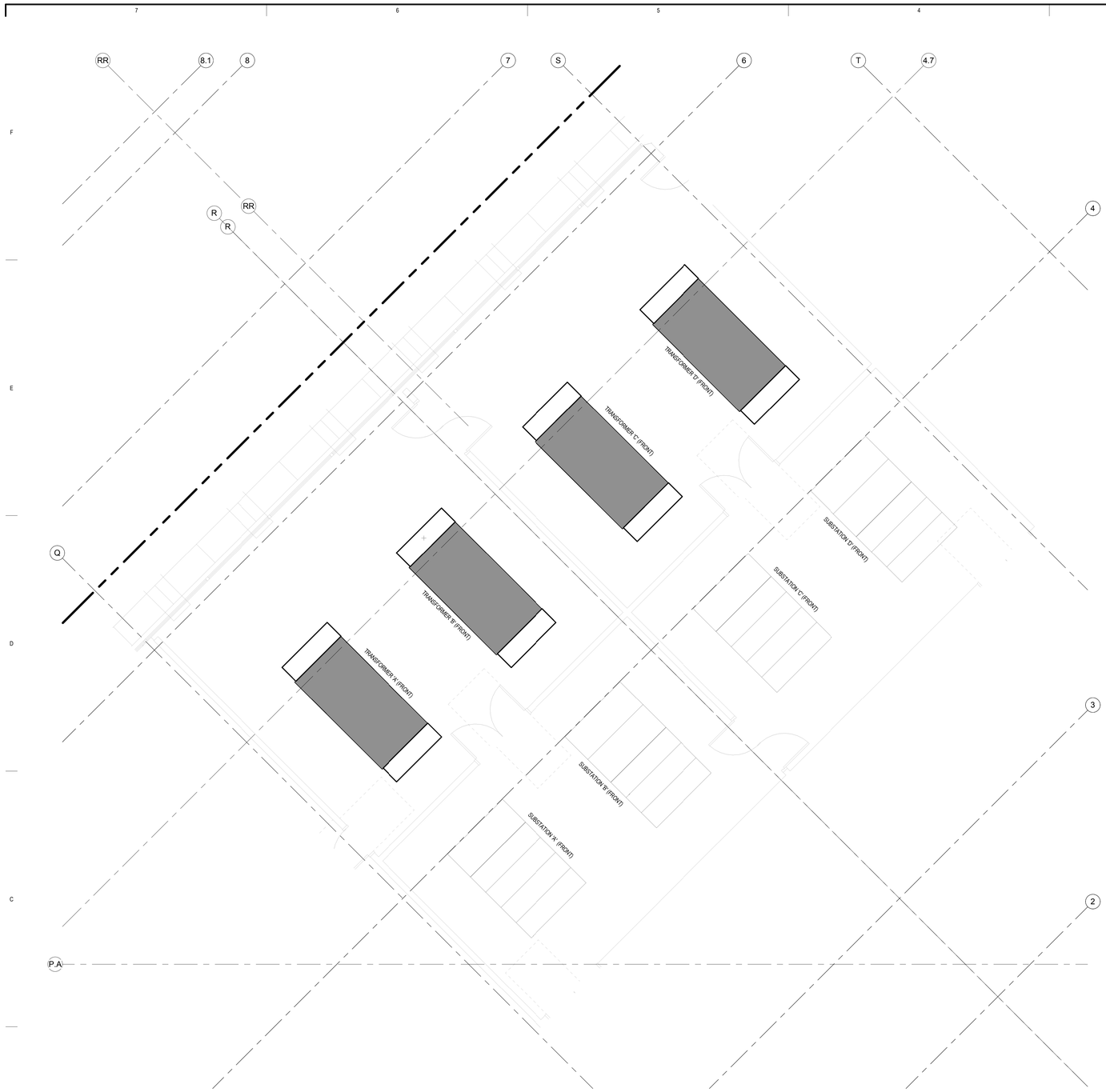
OVERALL COMMUNICATION PLAN - LEVEL 4 - NORTH

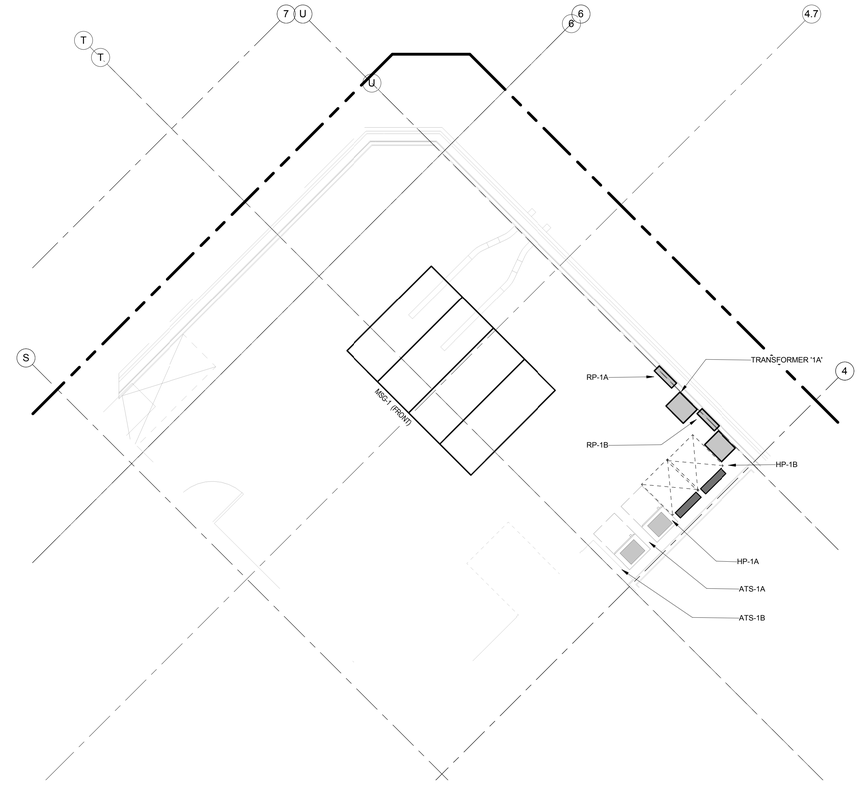
SCALE 1/16" = 1'-0"

3EC140

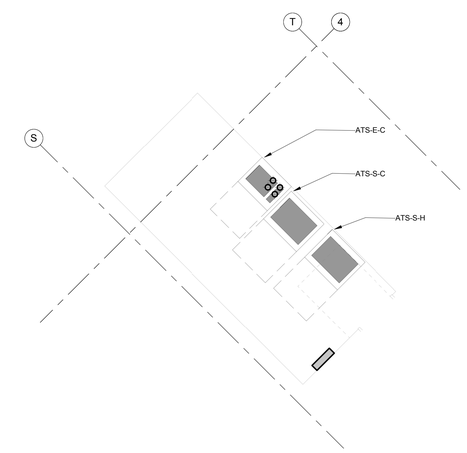
Schematic Design



1 LOW VOLTAGE SWITCHGEAR AND TRANSFORMER ROOMS
1/4" = 1'-0"



2 MEDIUM VOLTAGE SWITCHGEAR ROOM
1/4" = 1'-0"



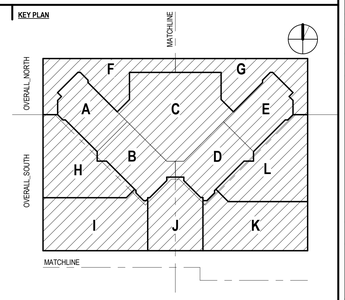
3 ATS ROOM
1/4" = 1'-0"

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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ELECTRICAL PART PLANS / ELEVATIONS SHEET NO. 1

SCALE 1/4" = 1'-0"

3EP401

Schematic Design

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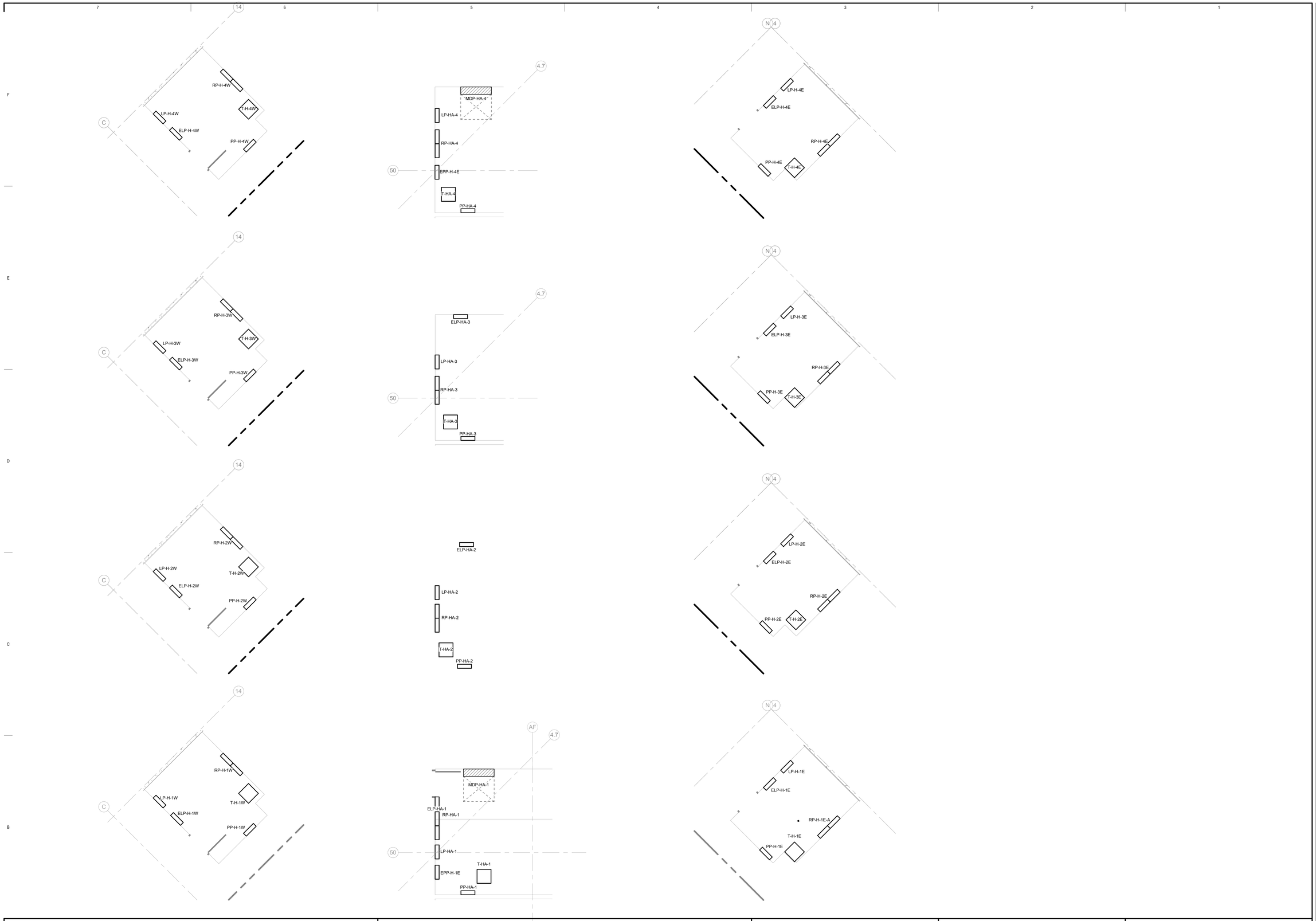
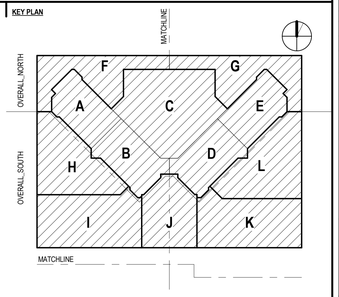


GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN



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ELECTRICAL PART PLANS / ELEVATIONS SHEET NO. 2

SCALE 1/4" = 1'-0"

3EP402

Schematic Design

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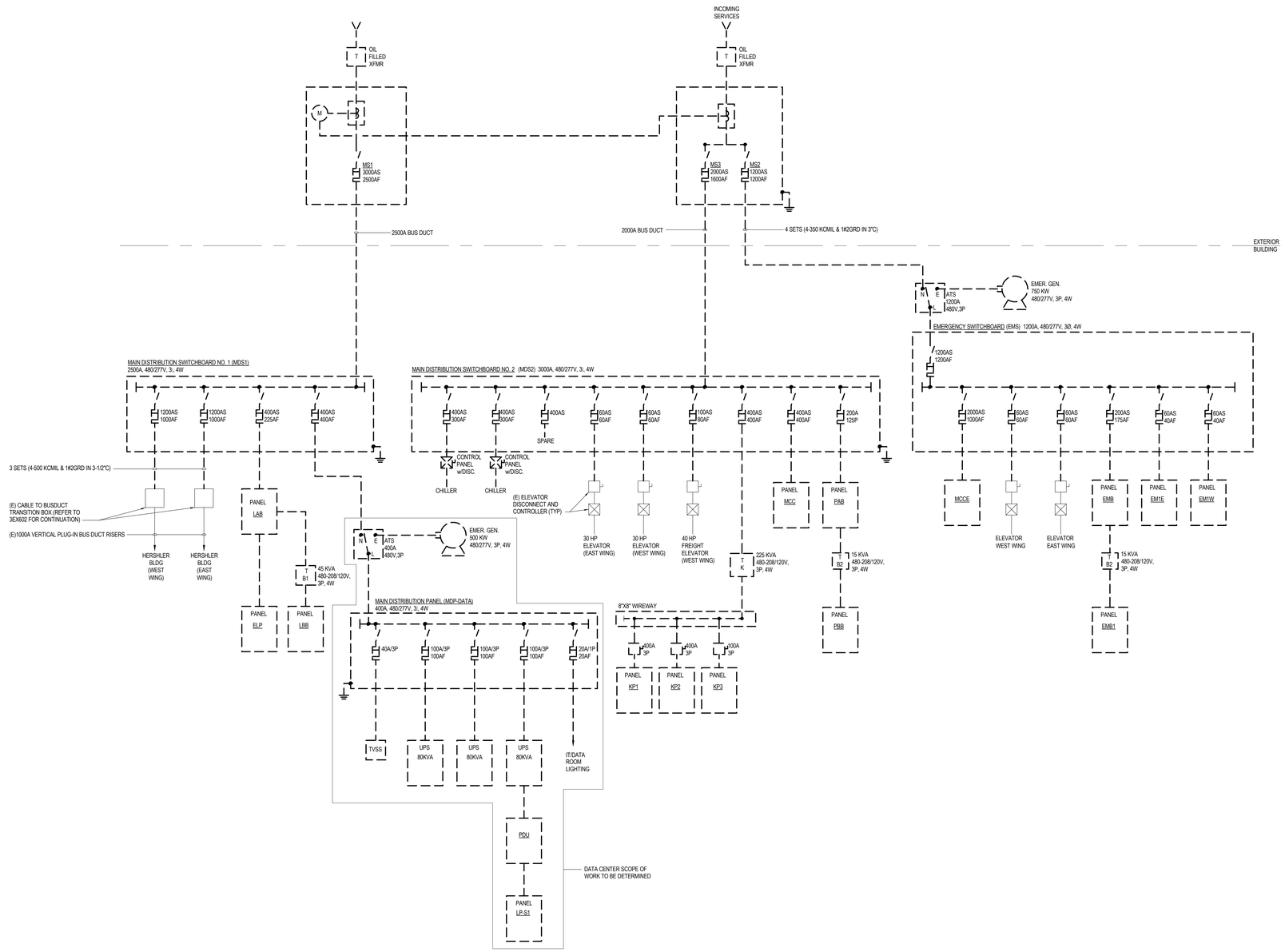

GENERAL NOTES

CONSTRUCTION NOTES

GRAPHIC LEGEND

KEY PLAN

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ELECTRICAL DIAGRAMS SHEET NO. 1

SCALE 1/2" = 1'-0"

3EX601

Schematic Design

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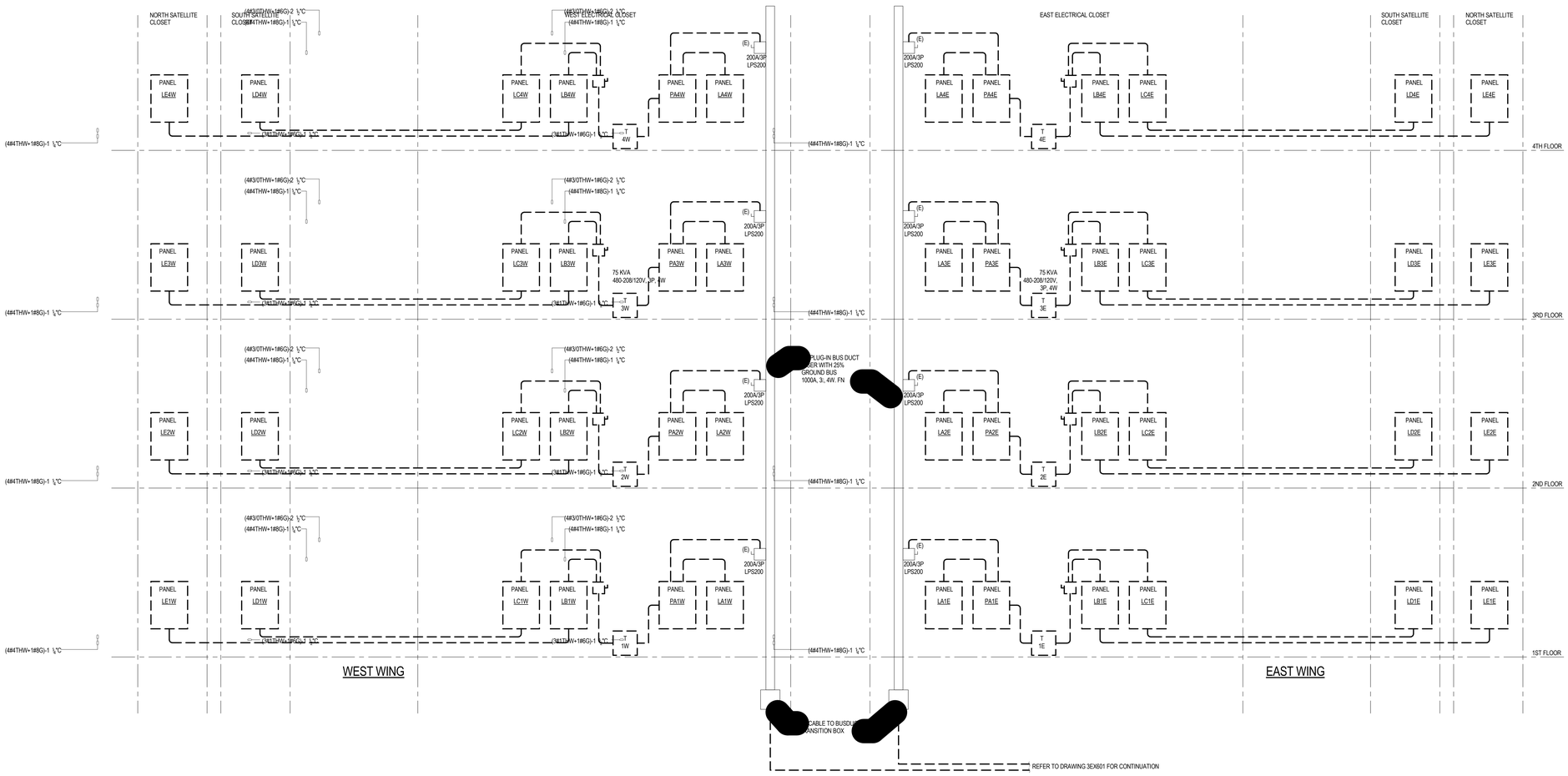

GENERAL NOTES

CONSTRUCTION NOTES

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ELECTRICAL DIAGRAMS SHEET NO. 2

SCALE 1/2" = 1'-0"

3EX602

Schematic Design

SYMBOL LEGEND

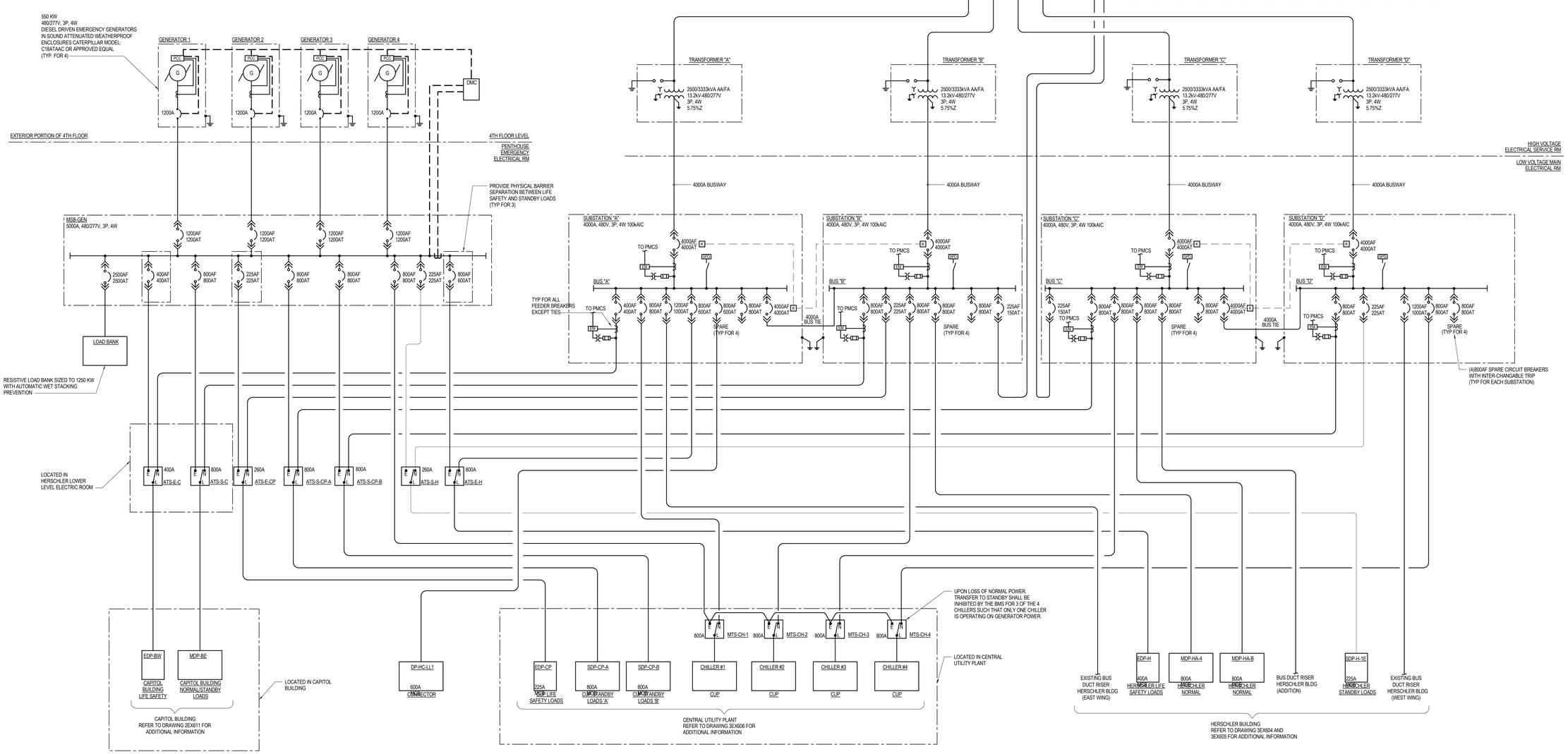
	LOW VOLTAGE CIRCUIT BREAKER
	DRAW-OUT TYPE POWER CIRCUIT BREAKER WITH LSIG ADJUSTMENTS
	GROUND INDICATOR
	CURRENT TRANSFORMER (CT)
	ZERO SEQUENCE CURRENT TRANSFORMER (CT)
K	KIRK KEY MECHANICAL INTERLOCK
52	MEDIUM VOLTAGE DRAWOUT VACUUM CIRCUIT BREAKER "52" DESIGNATES IEEE DEVICE NUMBER FOR AC CIRCUIT BREAKER
(3) LA	LIGHTNING ARRESTORS (TYP ON EACH PHASE)
	POTENTIAL TRANSFORMER (PT)
EM	NETWORKED ELECTRONIC CUSTOMER METERING PACKAGE WITH ANSI C12.50 REVENUE GRADE METERING.
#	MEDIUM VOLTAGE PROTECTIVE RELAY; "#" DENOTES IEEE DEVICE NUMBERS
	BATTERY CHARGER
	BATTERY STRINGS IN RACK ENCLOSURE
	BOND, SPLICE OR CONNECTION POINT
DMC	POWER COMMAND DIGITAL MASTER CONTROL (CUMMINS DMC 1500 OR APPROVED EQUAL)
PCC	POWER COMMAND DIGITAL GENSET CONTROL (CUMMINS PCC 3300 OR APPROVED EQUAL)
SPD	SURGE PROTECTION DEVICE
E N L	AUTOMATIC TRANSFER SWITCH (ATS)

ABBREVIATIONS

A	- AMPERES
AA	- DRY TYPE SELF-COOLED
AF	- AMPERE FRAME
AFG	- ABOVE FINISHED GRADE
AH	- AMPERE HOURS
AIC	- AMPERES INTERRUPTING CURRENT
AT	- AMPERE TRIP
ATS	- AUTOMATIC TRANSFER SWITCH
AWG	- AMERICAN WIRE GAUGE
BIL	- BASIC IMPULSE LEVEL
BLDG	- BUILDING
C	- CONDUIT / DEGREES CELSIUS
CB	- CIRCUIT BREAKER
℄	- CENTERLINE
CT	- CURRENT TRANSFORMER
CU	- COPPER
DIA	- DIAMETER
DP	- DISTRIBUTION PANELBOARD
DWG	- DRAWING
E, EM	- EMERGENCY
EC	- EMPTY CONDUIT
ER	- EXISTING TO BE REMOVED
EX	- EXISTING
F	- FUSE / DEGREES FAHRENHEIT
FA	- FORCED AIR (FAN) COOLED
G/GRD/GND	- GROUND
GFI/GFP	- GROUND FAULT INTERRUPTER
HP	- HORSEPOWER/HVAC PANEL
HZ	- HERTZ
ICCB	- INSULATED CASE CIRCUIT BREAKER
JJB	- JUNCTION BOX
kAIC	- KILO AMPS INTERRUPTING CURRENT
kCMIL	- THOUSAND CIRCULAR MILS
kVA	- KILO VOLT-AMPERES
KW	- KILO WATTS
LP	- LIGHTING PANELBOARD
LV	- LOW VOLTAGE
MCB	- MAIN CIRCUIT BREAKER
MCCB	- MOLDED CASE CIRCUIT BREAKER
MLO	- MAIN LUGS ONLY
MV	- MEDIUM VOLTAGE
MVA	- MEGA VOLT-AMPERES
MW	- MEGA WATTS
N	- NEUTRAL
N.C.	- NORMALLY CLOSED
N/C	- NOT IN CONTRACT
N.O.	- NORMALLY OPEN
NTS	- NOT TO SCALE
OC	- ON CENTER
P	- POLES/PHASE
PMCS	- POWER MONITORING AND CONTROL SYSTEM
PNL	- PANEL
PT	- POTENTIAL TRANSFORMER
RGS/GRS	- RIGID GALVANIZED STEEL
RP	- RECEPTACLE PANELBOARD
SSCR	- SHORT CIRCUIT CURRENT RATING
SST	- SOLID STATE TRIP
T/XFMR	- TRANSFORMER
TYP.	- TYPICAL
UON	- UNLESS OTHERWISE NOTED
VA	- VOLT-AMPERES
W	- WIRE
WP	- WEATHERPROOF

STATION BATTERY SYSTEM NOTES:

1. BATTERIES SHALL BE VALVE REGULATED NICKEL CADMIUM, ALCAD MODEL: "VANTAGE" OR APPROVED EQUAL.
2. ONE STATION BATTERY SYSTEM SHALL BE SIZED FOR ALL 38kV AND 15kV METAL CLAD SWITCHGEAR LINEUPS.
3. "A" AND "B" SYSTEMS MUST EACH BE SIZED TO OPERATE THE ENTIRE SYSTEM. VENDOR TO CONFIRM SIZING, BUT EACH SHALL BE NO LESS THAN 360AH.
4. FOR EACH DC PANEL PROVIDE (11) 30A/2P CB'S EACH WIRED WITH 2#10 & 1#10GRD IN 3/4"C TO SWITCHGEAR LINEUPS FOR CB OPERATION AND TRIP AND (1) 20A/2P CB WIRED WITH 2#12 & 2#12GRD IN 3/4"C TO EACH BREAKER TEST CABINET.
5. SYSTEM SHALL MEET ALL REQUIREMENTS OF CON EDISON SPECIFICATION EO-2022 FOR PARALLEL SERVICES. CONTRACTOR SHALL SUBMIT FINAL DC STATION BATTERY SYSTEM RISER DIAGRAMS, EQUIPMENT DETAILS, SCHEDULES, ETC. TO ENGINEER AND CON EDISON FOR APPROVAL.



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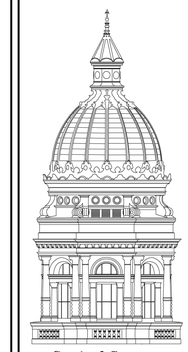

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ELECTRICAL DIAGRAMS SHEET NO. 3

SCALE 12" = 1'-0"

3EX603

Schematic Design

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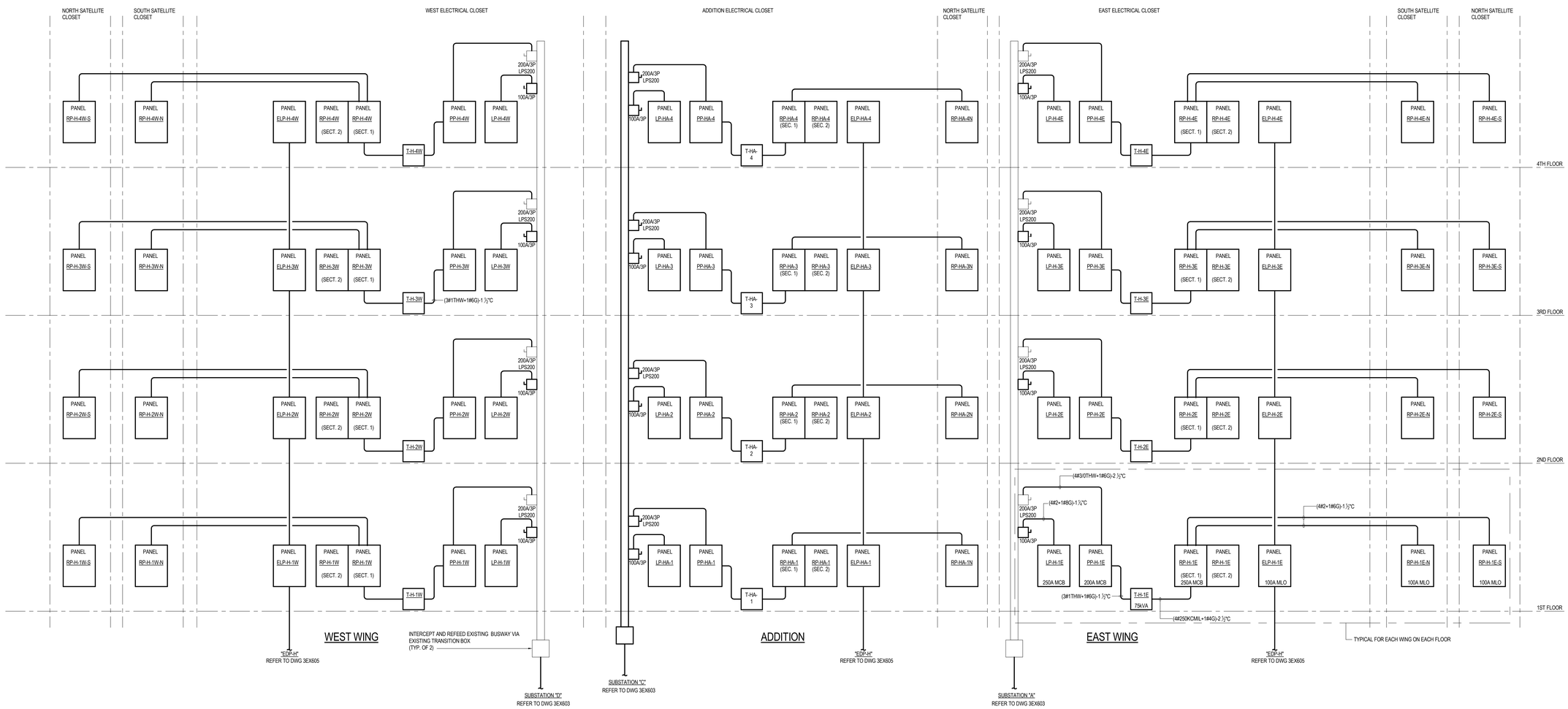

GENERAL NOTES

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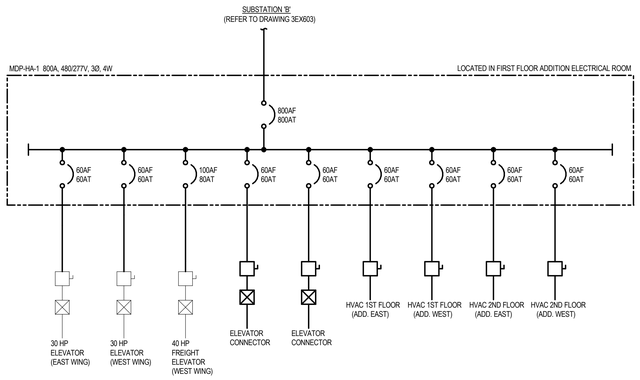
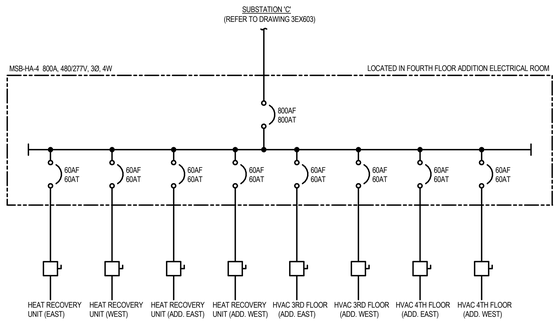
ELECTRICAL DIAGRAMS SHEET NO. 4

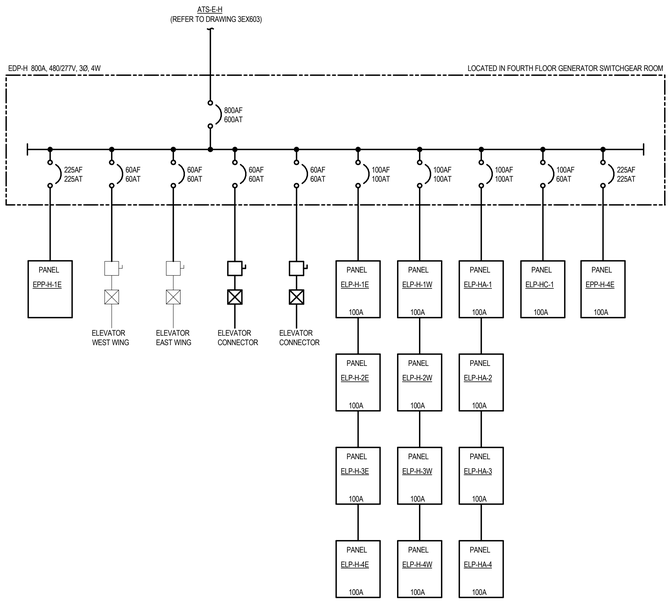
SCALE 12" = 1'-0"

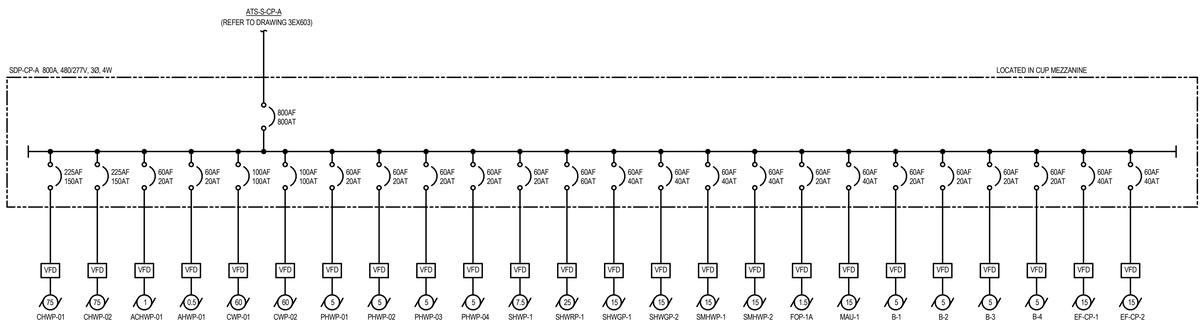
3EX604

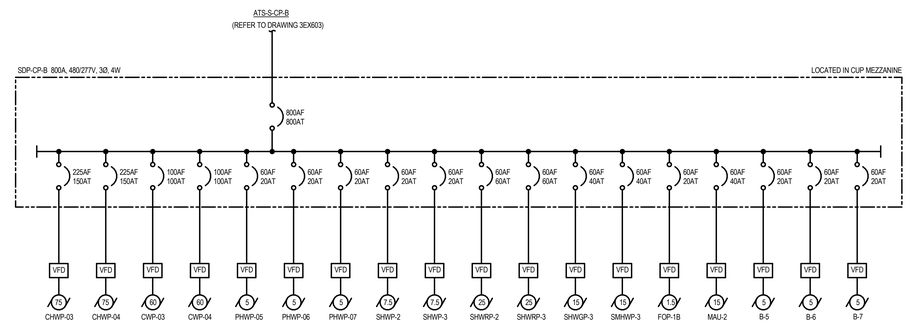
Schematic Design

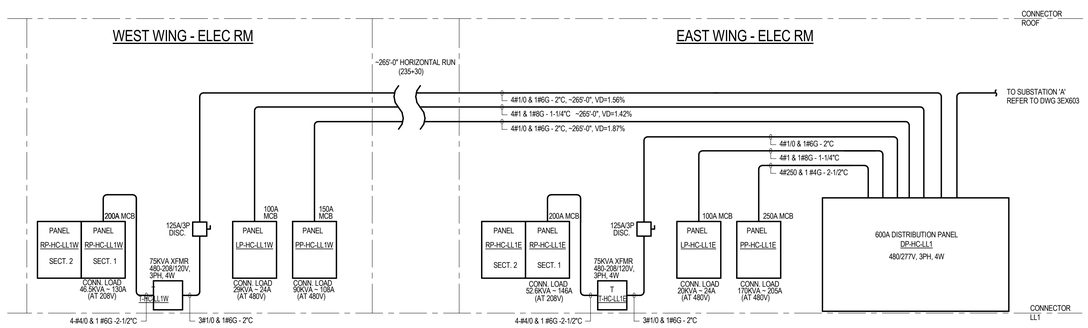












GENERAL NOTES

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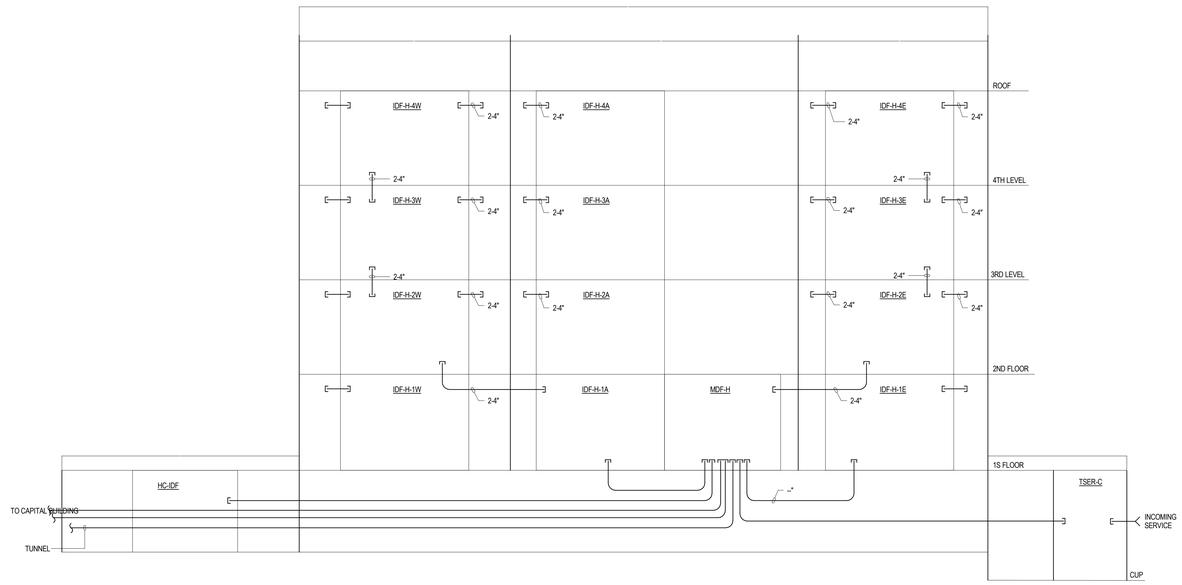
ELECTRICAL DIAGRAMS SHEET NO. 5

SCALE 12" = 1'-0"

3EX605

Schematic Design



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ELECTRICAL DIAGRAMS SHEET NO. 6

SCALE 1/8" = 1'-0"

3EX606

Schematic Design