OREGON TECH STUDENT RECREATION CENTER

INTERIOR RENOVATION

CONFORMANCE

ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADA	AMERICANS WITH DISABILITIES ACT	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MFG	MANUFACTURING
AFP	ACOUSTICAL FIBERBOARD PANEL	MFR	MANUFACTURER
AL /ALUM	ALUMINUM	MIN	MINIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MTL	METAL
APPROX	APPROXIMATELY	MP	METAL PANEL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	NA	NOT APPLICABLE
ARCH	ARCHITECTURAL	NIC	NOT IN CONTRACT
@	AT	NO	NUMBER
AWC	ACOUSTIC WALL COVERING	NTS	NOT TO SCALE
BD	BOARD	OC	ON CENTER
BLDG	BUILDING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CB	CATCH BASIN	OFOI	OWNER FURNISHED OWNER INSTALLED
CJ	CONTROL JOINT	OH	OVERHEAD
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	OSSC	OREGON STRUCTURAL SPECIALTY CODE
CONC	CONCRETE	P	PAINT
CONT	CONTINUOUS	PB	PUSH BUTTON
COORD	COORDINATE	PL	PLASTIC LAMINATE
CPT	CARPET TILE	PLAM	PLASTIC LAMINATE
CT	CERAMIC TILE	PLYWD	PLYWOOD
℄	CENTER LINE	PS	PAINT SYSTEM
DEG	DEGREE	PR	PAIR
DIA OR Ø	DIAMETER	PT	PRESSURE TREATED
DIM	DIMENSION	PVC	POLYVINYL CHLORIDE
DN	DOWN	RAF	RUBBER ATHLETIC FLOORING
DR	DOOR	RB	RUBBER BASE
DS	DOWNSPOUT	RD	ROOF DRAIN
DTL	DETAIL	REF	REFERENCE
(E)	EXISTING	REQD	REQUIRED
EL / ELEV	ELEVATION	RF	RUBBER FLOORING
EMT	ELECTRICAL METAL TUBING	RM	ROOM
EPP	EPOXY FLOOR PAINT	RO	ROUGH OPENING
EQ	EQUAL	RR	RESTROOM
EXP JT	EXPANSION JOINT	SAMF	SELF-ADHERING MEMBRANE FLASHING
EXT	EXTERIOR	SC	SEALED CONCRETE
FC	FIBER CEMENT	SDT	STATIC DISSIPATIVE TILE
FD	FLOOR DRAIN	SECT	SECTION
FE	FIRE EXTINGUISHER	SF	SQUARE FEET
FEC	FIRE EXTINGUISHER IN CABINET	SHT	SHEET
FF	FINISH FLOOR	SIM	SIMILAR
FFHB	FROST FREE HOSE BIB	SM	SHEET METAL
FOM	FACE OF MASONRY	SS	STAINLESS STEEL
FOS	FACE OF STUD	STD	STANDARD
FRP	FIBERGLASS-REINFORCED PLASTIC	STF	SEAMLESS TROWELED FLOORING
FT	FOOT, FEET	STL	STEEL
GA	GAUGE	STRUCT	STRUCTURAL
GALV	GALVANIZED	STV	SMART TV
GP	GYM WALL PAD	TB	TACK BOARD
GYP	GYPSUM	TBD	TO BE DETERMINED
GWB	GYPSUM WALL BOARD	TEMP	TEMPERED
GWS	GLASS WRITING SURFACE	TO	TOP OF
HB	HOSE BIBB	TP	TOILET PARTITION
HDWR	HARDWARE	TS	TUBE STEEL
HM	HOLLOW METAL	TWS	VINYL-WRAPPED TACKABLE WALL SURFACE
HS	HOLLOW STEEL	TYP	TYPICAL
HORIZ	HORIZONTAL	UL	UNDERWRITERS LABORATORY
HT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
IN	INCH, INCHES	VCT	VINYL COMPOSITION TILE
INSUL	INSULATION	VERT	VERTICAL
INT	INTERIOR	W/	WITH
JT	JOINT	WD	WOOD
LAM	LAMINATED	WOM	WALK OFF MAT
LVT	LUXURY VINYL TILE	WP	WALL PROTECTION
		WRB	WEATHER RESISTIVE BARRIER

SYMBOLS

- GRID BUBBLE (0)
- ROOM TAG (ROOM / 103)
- OCCUPANCY TAG (1000 | 100 / 10 | 1)
- WALL ASSEMBLY TAG (A1)
- WALL ASSEMBLY TYPE / STUD WIDTH (A2 / 6")
- EXTERIOR/INTERIOR ELEVATION TAG (1 / A1.01)
- SECTION TAG (1 / A4.01)
- KEYNOTE TAG (#)
- WINDOW TAG (11)
- DOOR TAG (101)
- CASEWORK TAG (11)
- TOILET ACCESSORY TAG (A)
- ELEVATION HEIGHT TAG
- DETAIL TAG (10 / A8.10)
- EXIT SIGN TAG
- FLOOR MATERIAL TAG (11)
- PATTERN DIRECTION TAG
- BID ALTERNATE TAG (1)
- REVISION TAG (1)
- CEILING HEIGHT TAG (9'-0")

PROJECT DESCRIPTION

In general, the student recreation center project (SRC) will take place on two floors in the existing gymnasium building, built in 1964, on the Oregon Tech campus.

In the basement level, the SRC renovation involves demolition, removal, and/or capping of equipment and plumbing associated with the now unused swimming pool. The pool will be capped with a new structurally framed floor and finished with a wood sports floor surface. Selected non-structural CMU and framed walls will be removed to create an open plan for new student exercise areas. The locker and toilet rooms on the west side will be demolished to open up the space as an exercise studio. The existing north locker rooms will be partially demolished and renovated to accommodate anticipated use. Mechanical systems will be added and/or modified to provide upgraded heating with added cooling for exercise activities. Power will be reconfigured to support exercise machinery, and new lighting will be installed to support the necessary illumination for various sporting activities.

On the first floor (main level), the work will consist of the interior remodel of the south addition area, where existing cardio equipment is used, to accommodate new athletic staff offices. This will require rezoning the mechanical systems, new electrical, and new low voltage. Other first floor renovations may include alternates for public restroom renovation, new finishes (floor, walls, ceilings, lighting, and casework) in the main lobby.

The existing basement fire sprinklers will also be upgraded or added to, including an alarm system, per the direction of the AHJ. All renovations will involve barrier removal to achieve ADA compliance.

BID ALTERNATES

ALTERNATE #1: FIRST FLOOR LOBBY AND RESTROOM REMODEL, AS INDICATED ON THE DRAWINGS.

ALTERNATE #2: PROVIDE AND INSTALL CEILING FANS IN STUDENT REC CENTER AS INDICATED IN DRAWINGS.

PLANS EXAMINER COMMENTS

PLUMBING CONTRACTOR TO CALL FOR DEMO INSPECTIONS

2

DRAWING INDEX

GENERAL

G0.00	COVER SHEET
G0.01	CODE SHEET - BASEMENT LEVEL
G0.02	CODE SHEET - MAIN LEVEL
G0.03	ASSEMBLIES

ARCHITECTURAL DEMO

AD2.01	POOL LEVEL DEMO FLOOR PLAN
AD2.02	MAIN LEVEL DEMO PLAN
AD5.01	ENLARGED LOBBY DEMO PLAN (APR 01)
AD6.01	POOL LEVEL DEMO RCP
AD6.02	MAIN LEVEL DEMO RCP

ARCHITECTURAL

A2.01	REC CENTER FLOOR PLAN
A2.02	MAIN LEVEL FLOOR PLAN
A2.03	ROOF PLAN (NOT USED)
A4.01	BUILDING SECTIONS
A4.02	BUILDING SECTIONS
A4.03	BUILDING SECTIONS
A4.10	WALL SECTIONS
A5.01	ENLARGED PLANS
A5.02	ENLARGED PLANS
A5.03	ENLARGED PLANS
A5.04	ENLARGE LOBBY PLANS (APR 01)
A5.11	INTERIOR ELEVATIONS
A5.12	INTERIOR ELEVATIONS
A5.13	INTERIOR ELEVATIONS (APR 01)
A6.01	SRC RCP
A6.02	MAIN LEVEL RCP
A6.03	ENLARGED LOBBY RCP (APR 01)
A8.01	SCHEDULES
A8.21	INTERIOR DETAILS
A8.22	INTERIOR DETAILS
A8.31	CASEWORK DETAILS
A8.32	CASEWORK DETAILS (APR 01)
A9.01	BASEMENT FINISH FLOOR PLAN
A9.02	MAIN LEVEL FINISH FLOOR PLAN
A9.03	LOBBY FINISH FLOOR PLAN (APR 01)

STRUCTURAL

S1.00	STRUCTURAL PLANS & NOTES
S1.01	STRUCTURAL DETAILS

MECHANICAL DEMO

M0.01	SYMBOLS LIST AND GENERAL NOTES - MECHANICAL
M0.02	SCHEDULES - MECHANICAL
M0.03	SCHEDULES - MECHANICAL
MD2.01	POOL LEVEL DEMO FLOOR PLAN - MECHANICAL
MD2.02	ENLARGED LOBBY LEVEL DEMO PLAN - MECHANICAL

MECHANICAL

M2.01	REC CENTER FLOOR PLAN - MECHANICAL
M2.02	MAIN LEVEL FLOOR PLAN - MECHANICAL
M2.03	ENLARGED LOBBY PLAN - MECHANICAL
M3.01	REC CENTER FLOOR PLAN - MECHANICAL PIPING
M4.01	SCHEMATICS - MECHANICAL
M5.01	DETAILS - MECHANICAL

PLUMBING DEMO

P0.01	SYMBOLS AND GENERAL NOTES - PLUMBING
P0.02	SCHEDULES & DETAILS - PLUMBING
PD2.00	UNDERFLOOR DEMO PLAN
PD2.01	POOL LEVEL DEMO FLOORING PLAN - PLUMBING
PD2.02	ENLARGED LOBBY LEVEL DEMO PLAN - PLUMBING

PLUMBING

P2.00	UNDERFLOOR PLAN - PLUMBING
P2.01	REC CENTER FLOOR PLAN - PLUMBING
P2.02	MAIN LEVEL FLOOR PLAN - PLUMBING
P2.03	ENLARGED LOBBY PLAN - PLUMBING

ELECTRICAL DEMO

E0.01	SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL
E0.02	LUMINAIRE SCHEDULE - LIGHTING
ED2.01	POOL LEVEL DEMO FLOOR PLAN - LIGHTING
ED2.02	MAIN LEVEL DEMO PLAN - LIGHTING
ED3.01	POOL LEVEL DEMO FLOOR PLAN - POWER/SIGNAL
ED3.02	MAIN LEVEL DEMO PLAN - POWER/SIGNAL
ED5.01	ONE-LINE DIAGRAM - DEMO
ED5.02	ONE-LINE DIAGRAM - DEMO - BID ALTERNATE #5

ELECTRICAL

E2.01	REC CENTER FLOOR PLAN - LIGHTING
E2.02	MAIN LEVEL FLOOR PLAN - LIGHTING
E2.03	ENLARGED LOBBY PLAN - LIGHTING
E3.01	REC CENTER FLOOR PLAN - POWER/SIGNAL
E3.02	MAIN LEVEL FLOOR PLAN - POWER/SIGNAL
E3.03	ENLARGED LOBBY PLAN - POWER/SIGNAL
E4.01	ENLARGED PLANS - ELECTRICAL
E5.01	ONE-LINE DIAGRAM - REVISED
E5.02	ONE-LINE DIAGRAM - REVISED - BID ALTERNATE #5
E6.01	SCHEDULES - ELECTRICAL
E6.02	PANEL SCHEDULES - ELECTRICAL
E7.01	DETAILS - ELECTRICAL

PROJECT TEAM

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REGISTERED ARCHITECT
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RENEE P. ALEXANDER
BEND, OREGON
STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR 97601

No.	Description	Date
1	ADDENDUM 01	5.20.2019
2	CONFORMANCE	8.12.2019
1	APR 01	6.11.2019

Project Number 1820
Date 8.13.2019

CONFORMANCE

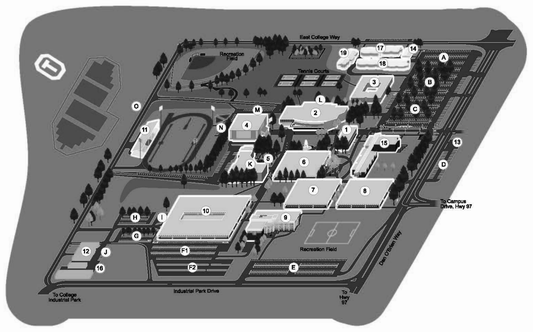
COVER SHEET

G0.00

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Oregon TECH

Oregon Tech
3201 Campus Dr.
Klamath Falls, OR 97601



Designated Parking Area

- A. Residence Hall Lot
- B. Residence Hall Lot
- C. Snell Hall Lot
- D. Information Booth Lot
- E. Purvine Hall Lot
- F1. Cornett West Lot
- F2. Cornett West Lot (Gravel)
- G. Cornett North Lot
- H. Cornett North Lot
- I. Cornett North Annex
- J. Facilities Services Lot
- K. Learning Resources Center Lot
- L. College Union East Lot
- M. College Union North Lot
- N. Tech Fit Lot
- O. Stadium Lot (Gravel)

Map Legend

A-B Resident Parking
C-O General Parking
Handicap
Visitor

Office of Admissions

800.422.2017
541.885.1150
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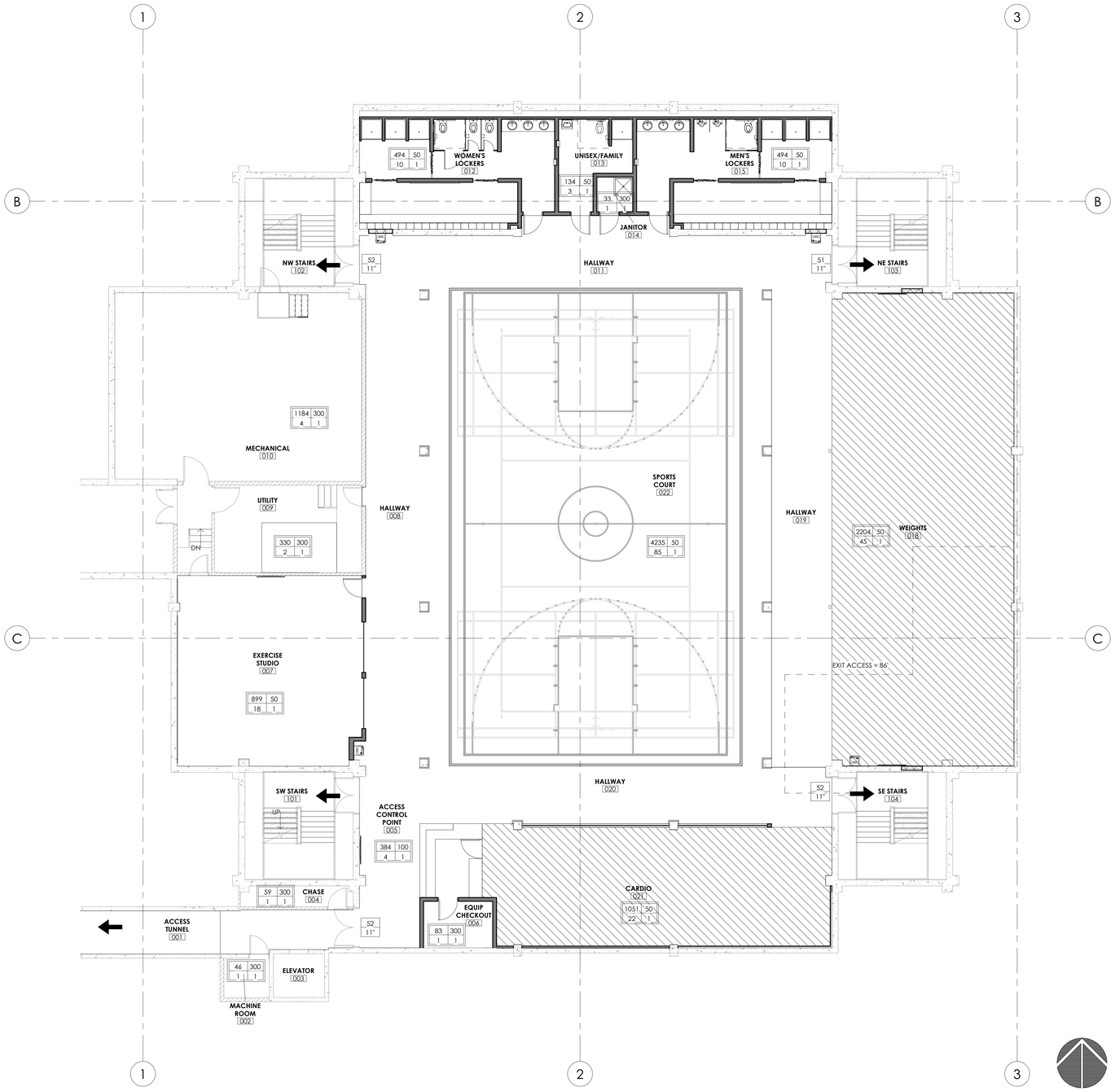
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Campus Map

1. **Snell Hall**
   Administrative Offices, Alumni Relations, Cashier, Human Resources, Oregon Tech Foundation, Registrar
2. **College Union**
   Admissions, ASOIT, Bookstore, Campus Dining, Financial Aid, Information, KTEC, Meeting Rooms, Student Affairs
3. **Residence Hall**
4. **Athletics**
   Gymnasium, Fitness Center
5. **Learning Resource Center**
   Career Services, Library, Offices, Shaw Historical Library, Student Success Center
6. **Owens Hall**
   Classrooms, Laboratories, Offices
7. **Semon Hall**
   Classrooms, Dental Clinic, Laboratories
8. **Boivin Hall**
   Classrooms, Information Technology Services, Geo-Heat Center, Offices, Small Business Development Center
9. **Purvine Hall**
   Classrooms, Laboratories, Offices, Oregon Renewable Energy Center
10. **Cornett Hall**
    Campus Safety, Classrooms, Laboratories, Offices
11. **John F. Moehl Stadium and Track Facility**
12. **Facilities Services**
    Central Receiving
13. **Information Center**
    Disabled Parking Information, Temporary and Visitor Parking Permits, Campus Security
14. **Integrated Student Health Center**
15. **Martha Anne Dow Center for Health Professionals**
    Classrooms, Laboratories, Offices
17. **Sustainable Village A**
18. **Sustainable Village B**
19. **Sustainable Village C**

VICINITY MAP





1 / G0.01 **CODE SHEET - BASEMENT LEVEL**

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

1. GENERAL INFORMATION

IN GENERAL, THIS PROJECT CONSISTS OF AN ALTERATION OF THE BASEMENT ATHLETIC AREAS WITH NO CHANGES OF USE. ADDITIONAL WORK ON THE FIRST FLOOR (MAIN LEVEL) CONVERTING A-3 EXISTING WORKOUT AREAS TO BUSINESS OFFICES, PER 3404, THE HAZARDS WILL NOT BE INCREASED.

APPLICABLE CODES: 2014 OSSC / 2014 OFC / 2014 OMSC / 2014 OPSC / 2014 NEC / 2014 OEEC / ICC/ANSI A117.1-2009
BUILDING DEPT. JURISDICTION: KLAMATH COUNTY, OREGON
PROJECT DESCRIPTION: THE BUILDING IS AN EXISTING 51,000 SQUARE FOOT GYMNASIUM.

OCCUPANCY CLASSIFICATION: A-3 GYMNASIUMS (WITHOUT SPECTATOR SEATING)
OCCUPANCY SEPARATION: NONE REQUIRED PER OSSC SECTION 508.4 FOR NON-SEPARATED OCCUPANCIES

CONSTRUCTION TYPE: TYPE III-B (NON-RATED) (ASSIGNED)
FIRE PROTECTION: AUTOMATIC SPRINKLER (NFPA13) & ALARM SYSTEMS ARE TO BE UPGRADED ON BASEMENT LEVEL
SIZE / DISTRIBUTION OF PORTABLE FIRE EXTINGUISHERS PER OFC, SECTION 906. MAXIMUM TRAVEL DISTANCE = 75 FEET.
CHAPTER 34: 3404.1 - ALTERATIONS

SEISMIC DESIGN CATEGORY: SEE STRUCTURAL
EARTHQUAKE SITE CLASSIFICATION: SEE STRUCTURAL
BASIC WIND SPEED: SEE STRUCTURAL

2. ALLOWABLE BUILDING HEIGHT AND AREA

ALLOWABLE HEIGHT AND # OF STORIES: DOES NOT APPLY (OSSC CH. 34)
ALLOWABLE AREA: BASEMENT NOT INCLUDED IN ALLOWABLE AREA
BUILDING AREA MODIFICATIONS: DOES NOT APPLY (OSSC CH. 34)

FRONTAGE INCREASE (506.2)
If = (F/P-0.25)W/30 F = 655' P =655' W = 30'
If = (655'/655' - 0.25)(30/30)
If = 0.75
SPRINKLER INCREASE (506.3)
Is = N/A (ZERO)

ALLOWABLE AREA PER STORY (506.1)
Aa = [Af + (Af x If) + (Af x Is)] Af = 9000
Aa = [9500+(9500x0.75)+(9500x0)]
Aa = (9500+7125+0)
ACTUAL AREA = 37,692 SF

BASEMENT LEVEL AREA:	13,412 SF
MAIN LEVEL AREA:	23,174 SF
GYMNASIUM LEVEL AREA:	14,186 SF
EXISTING TOTAL BUILDING AREA:	51,072 SF
BASEMENT LEVEL AREA OF IMPROVEMENTS:	13,412 SF
MAIN LEVEL AREA OF IMPROVEMENTS:	2,386 SF
GYMNASIUM AREA OF IMPROVEMENTS:	0 SF
TOTAL AREA OF IMPROVEMENTS:	15,798 SF

3. FIRE-RESISTANCE RATING - BUILDING ELEMENTS (OSSC TABLE 601)

PRIMARY STRUCTURE FRAME	0 HOURS
BEARING WALLS EXTERIOR	0 HOURS
BEARING WALLS INTERIOR	0 HOURS
BEARING WALLS EXTERIOR	0 HOURS
BEARING WALLS INTERIOR	0 HOURS
FLOOR CONSTRUCTION	0 HOURS
ROOF CONSTRUCTION	0 HOURS

4. FIRE-RESISTANCE RATINGS / SEPARATION DISTANCE (OSSC TABLE 602)

EXTERIOR WALLS OF NEW BUILDING ARE GREATER THAN 10 FEET FROM EXISTING BUILDINGS. FIRE PROTECTION FROM EXTERIOR NOT REQUIRED.

5. FIRE-RESISTANCE RATED ASSEMBLIES (OSSC SECTION 705)

EXTERIOR WALLS AND PROJECTIONS: SEE ABOVE
OPENINGS - 30 FT & GREATER: UNPROTECTED, SPRINKLED - NOT REQUIRED

INTERIOR WALLS: NON-RATED, TYPICAL U.N.O.
MECHANICAL ROOM: WALL CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE OSSC 509.4.2 & TABLE 509
CORRIDORS: NON-RATED IN 'A' OCCUPANCY WITH AUTOMATIC FIRE SPRINKLER SYSTEM PER OSSC TABLE 1018.1

HORIZONTAL ASSEMBLIES - OSSC SECTION 711
ROOF ASSEMBLIES: NON-RATED
FLOOR ASSEMBLIES: NON-RATED
FLOOR / CEILING ASSEMBLIES: NON-RATED

OPENING PROTECTIVES - DOOR: NON-RATED

DUCT PROTECTIVES: PROTECTED WHERE REQUIRED BY OSSC SECTION 713 & MECHANICAL & ELECTRICAL CODE

FIRE BLOCKING - OSSC SECTION 718.2.2
PROVIDE APPROVED FIRE BLOCKING AS REQUIRED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS AT CEILING AND FLOOR LEVELS. NONE REQUIRED AT FULLY INSULATED WALL CAVITIES.

DRAFT STOPPING IN FLOORS / ATTICS - OSSC SECTION 718.3
NOT REQUIRED IN BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, PER OSSC 717.3.3 & 717.4.3 EXCEPTIONS

6. FIRE ALARM & DETECTION SYSTEM (OSSC CHAPTER 9)

NFPA 72 FIRE ALARM SYSTEM WHERE OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.

7. OCCUPANT LOADS (OSSC TABLE 1004.1.2)

GYMNASIUM AND EXERCISE AREAS = 50 NET
BUSINESS AREAS = 100 NET
REFER TO CODE ANALYSIS FLOOR PLANS FOR ROOM OCCUPANCY AND TRAVEL DISTANCE REQUIREMENTS

8. EGRESS (OSSC CHAPTER 10)

MEANS OF EGRESS WIDTHS PER OSSC SECTION 1005.1
0.3" PER OCCUPANT FOR STAIRWAYS
0.2" PER OCCUPANT FOR OTHER EGRESS COMPONENTS
COMMON PATH OF EGRESS TRAVEL PER OSSC TABLE 1014.3 = 100 FEET MAX
EXIT ACCESS TRAVEL DISTANCE PER OSSC TABLE 1016.2 = 300 FEET MAX
ACTUAL MAX. TRAVEL DISTANCE = 100'-0" FEET
CORRIDOR WIDTH PER OSSC SECTION 1018.2 = 44 INCH MIN

DEAD END CORRIDOR LENGTH PER OSSC SECTION 1018.4 =
50 FEET IN B OCCUPANCY EQUIPPED WITH AUTOMATIC FIRE SPRINKLER PER EXCEPTION 2

9. PLUMBING FIXTURE COUNT CHAPTER 29 & TABLE 29-A

NOTE: FOR PURPOSES OF PLUMBING FIXTURE COUNT, THE FOLLOWING ROOMS WHICH ARE NOT TYPICALLY OCCUPIED OR WHOSE OCCUPANTS COME FROM OTHER ROOMS THROUGHOUT THE DAY ARE NOT INCLUDED:

CUSTODIAL AND MECHANICAL ROOMS
TOILET ROOMS
STORAGE

GROUP A-3 - GYMNASIUMS WITHOUT SPECTATOR SEATING (BASEMENT)
TOTAL OCCUPANTS = 198 (99 M, 99 F)

WATER CLOSET CALCULATION:
1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY CALCULATION:
1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

PLUMBING FIXTURE	MALE	FEMALE
TOTAL REQUIRED		
WATER CLOSETS	3	3
LAVATORIES	3	3
TOTAL PROVIDED		
WATER CLOSETS	3	3
LAVATORIES	3	3

DRINKING FOUNTAINS: 1 PER FLOOR REQUIRED (2)

CODE ANALYSIS LEGEND

- * — DENOTES ACCESSORY USE SPACE NOT NORMALLY OCCUPIED. OCCUPANTS COUNTED ELSEWHERE FOR EXITING REQUIREMENTS
- 1000 / 100 — OCCUPIABLE AREA OF ROOM IN SQUARE FEET
- 10 — OCCUPANT LOAD FACTOR
- 1 — MIN NUMBER OF EXITS REQUIRED
- RESULATANT OCCUPANT LOAD
- 28 — OCCUPANT LOAD AT EXIT DISCHARGE
- 6" — EXIT DISCHARGE WIDTH IN INCHES
- #### — OCCUPANT LOAD
- TRAVEL DISTANCE
- LIGHTED EXIT SIGN AT ALL EXITS w/ DIRECTIONAL ARROW WHERE OCCURS
- AREAS NOT IN SCOPE OF WORK
- EXIT

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1140 sw Simpson Ave. - Suite 200
Bend, Oregon 97702
t 541.382.5535 | f 541.389.8033

REGISTERED ARCHITECT 5499 RENEE P. ALEXANDER BEND, OREGON STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
1	ADDENDUM 01	5.20.2019
2	CONFORMANCE	8.12.2019

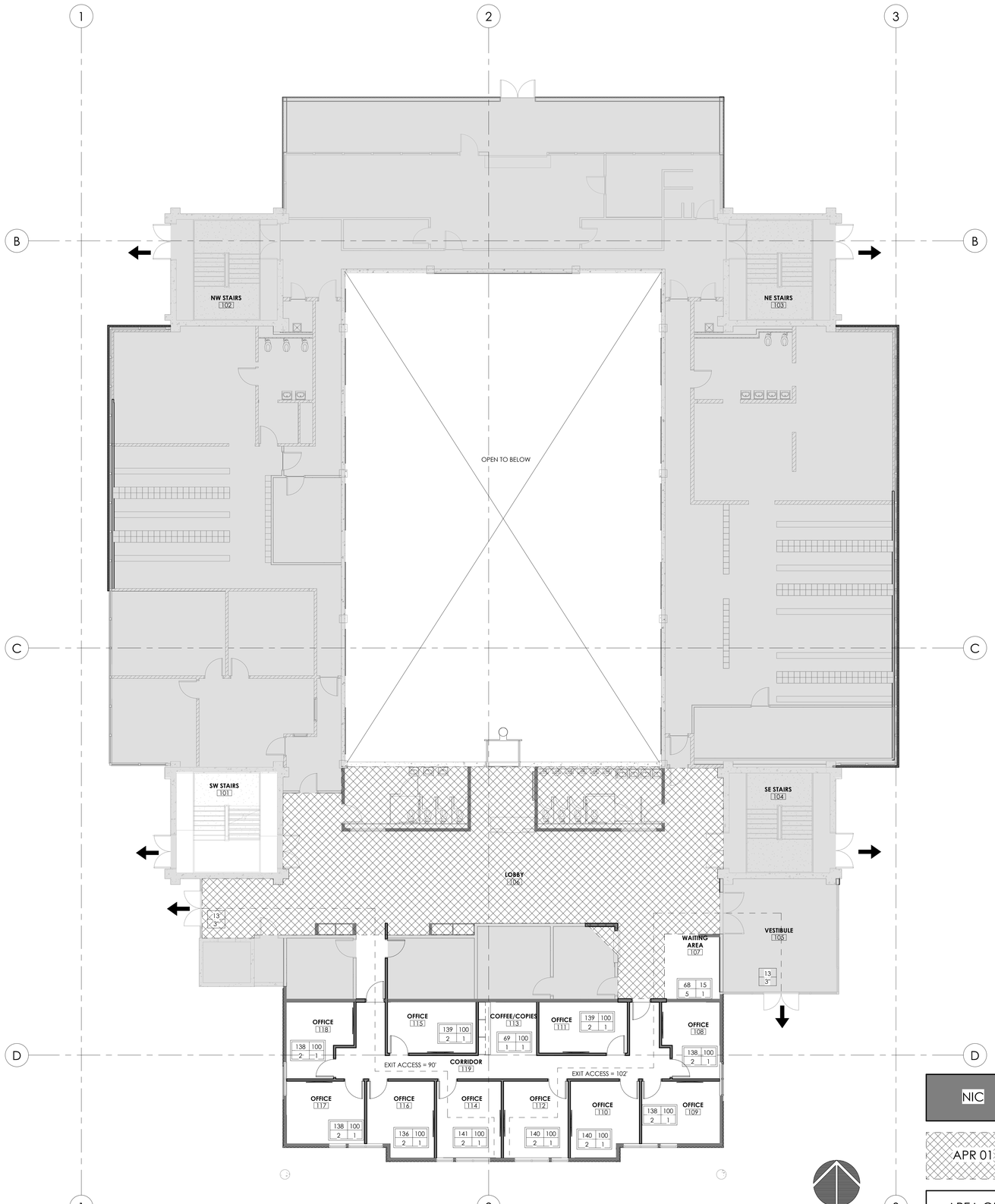
Project Number 1820
Date 8.13.2019

CONFORMANCE

CODE SHEET - BASEMENT LEVEL

G0.01

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1 G0.02 **MAIN LEVEL**
SCALE: 1/8" = 1'-0"

NIC

APR 01

AREA OF WORK

1. GENERAL INFORMATION

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If = (655'/655' - 0.25)(30/30)
If = 0.75
SPRINKLER INCREASE (506.3)
Is = N/A (ZERO)

ALLOWABLE AREA PER STORY (506.1)
Aa = [Af + (Af x If) + (Af x Is)] Af = 9000
Aa = [9500+(9500x0.75)+(9500x0)]
Aa = [9500+7125+0]
ACTUAL AREA = 37,692 SF

BASEMENT LEVEL AREA: 13,412 SF
MAIN LEVEL AREA: 23,174 SF
GYMNASIUM LEVEL AREA: 14,186 SF
EXISTING TOTAL BUILDING AREA: 51,072 SF

BASEMENT LEVEL AREA OF IMPROVEMENTS: 13,412 SF
MAIN LEVEL AREA OF IMPROVEMENTS: 2,386 SF
GYMNASIUM AREA OF IMPROVEMENTS: 0 SF
TOTAL AREA OF IMPROVEMENTS: 15,798 SF

3. FIRE-RESISTANCE RATING - BUILDING ELEMENTS (OSSC TABLE 601)

PRIMARY STRUCTURE FRAME 0 HOURS
BEARING WALLS
EXTERIOR 0 HOURS
INTERIOR 0 HOURS
BEARING WALLS
EXTERIOR 0 HOURS
INTERIOR 0 HOURS
FLOOR CONSTRUCTION 0 HOURS
ROOF CONSTRUCTION 0 HOURS

4. FIRE-RESISTANCE RATINGS / SEPARATION DISTANCE (OSSC TABLE 602)

EXTERIOR WALLS OF NEW BUILDING ARE GREATER THAN 10 FEET FROM EXISTING BUILDINGS. FIRE PROTECTION FROM EXTERIOR NOT REQUIRED.

5. FIRE-RESISTANCE RATED ASSEMBLIES (OSSC SECTION 705)

EXTERIOR WALLS AND PROJECTIONS SEE ABOVE
OPENINGS - 30 FT & GREATER: UNPROTECTED, SPRINKLED - NOT REQUIRED

INTERIOR WALLS NON-RATED, TYPICAL U.N.O.
MECHANICAL ROOM: WALL CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE OSSC 509.4.2 & TABLE 509
CORRIDORS: NON-RATED IN 'A' OCCUPANCY WITH AUTOMATIC FIRE SPRINKLER SYSTEM PER OSSC TABLE 1018.1

HORIZONTAL ASSEMBLIES - OSSC SECTION 711
ROOF ASSEMBLIES: NON-RATED
FLOOR ASSEMBLIES: NON-RATED
FLOOR / CEILING ASSEMBLIES: NON-RATED

OPENING PROTECTIVES -
DOOR: NON-RATED

DUCT PROTECTIVES PROTECTED WHERE REQUIRED BY OSSC SECTION 713 & MECHANICAL & ELECTRICAL CODE

FIRE BLOCKING - OSSC SECTION 718.2.2
PROVIDE APPROVED FIRE BLOCKING AS REQUIRED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS AT CEILING AND FLOOR LEVELS. NONE REQUIRED AT FULLY INSULATED WALL CAVITIES.

DRAFT STOPPING IN FLOORS / ATTICS - OSSC SECTION 718.3
NOT REQUIRED IN BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM, PER OSSC 717.3.3 & 717.4.3 EXCEPTIONS

6. FIRE ALARM & DETECTION SYSTEM (OSSC CHAPTER 9)

NFPA 72 FIRE ALARM SYSTEM WHERE OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.

7. OCCUPANT LOADS (OSSC TABLE 1004.1.2)

GYMNASIUM AND EXERCISE AREAS = 50 NET
BUSINESS AREAS = 100 NET
REFER TO CODE ANALYSIS FLOOR PLANS FOR ROOM OCCUPANCY AND TRAVEL DISTANCE REQUIREMENTS

8. EGRESS (OSSC CHAPTER 10)

MEANS OF EGRESS WIDTHS PER OSSC SECTION 1005.1
0.3" PER OCCUPANT FOR STAIRWAYS
0.2" PER OCCUPANT FOR OTHER EGRESS COMPONENTS
COMMON PATH OF EGRESS TRAVEL PER OSSC TABLE 1014.3 = 100 FEET MAX
EXIT ACCESS TRAVEL DISTANCE PER OSSC TABLE 1016.2 = 300 FEET MAX
ACTUAL MAX. TRAVEL DISTANCE = 100'-0" FEET
CORRIDOR WIDTH PER OSSC SECTION 1018.2 = 44 INCH MIN

DEAD END CORRIDOR LENGTH PER OSSC SECTION 1018.4 =
50 FEET IN B OCCUPANCY EQUIPPED WITH AUTOMATIC FIRE SPRINKLER PER EXCEPTION 2

9. PLUMBING FIXTURE COUNT CHAPTER 29 & TABLE 29-A

NOTE: FOR PURPOSES OF PLUMBING FIXTURE COUNT, THE FOLLOWING ROOMS WHICH ARE NOT TYPICALLY OCCUPIED OR WHOSE OCCUPANTS COME FROM OTHER ROOMS THROUGHOUT THE DAY ARE NOT INCLUDED:

CUSTODIAL AND MECHANICAL ROOMS
TOILET ROOMS
STORAGE

GROUP A-3 - GYMNASIUMS WITHOUT SPECTATOR SEATING (BASEMENT)
TOTAL OCCUPANTS = 198 (99 M, 99 F)

WATER CLOSET CALCULATION:
1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50

LAVATORY CALCULATION:
1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80

PLUMBING FIXTURE	MALE	FEMALE
TOTAL REQUIRED		
WATER CLOSETS	3	3
LAVATORIES	3	3
TOTAL PROVIDED		
WATER CLOSETS	3	3
LAVATORIES	3	3

DRINKING FOUNTAINS: 1 PER FLOOR REQUIRED

CODE ANALYSIS LEGEND

* DENOTES ACCESSORY USE SPACE NOT NORMALLY OCCUPIED. OCCUPANTS COUNTED ELSEWHERE FOR EXITING REQUIREMENTS
1000 / 100 — OCCUPIABLE AREA OF ROOM IN SQUARE FEET
OCCUPANT LOAD FACTOR
10 / 1 — MIN NUMBER OF EXITS REQUIRED
RESULATANT OCCUPANT LOAD
28 — OCCUPANT LOAD AT EXIT DISCHARGE
6" — EXIT DISCHARGE WIDTH IN INCHES
— OCCUPANT LOAD
TRAVEL DISTANCE
LIGHTED EXIT SIGN AT ALL EXITS w/ DIRECTIONAL ARROW WHERE OCCURS
AREAS NOT IN SCOPE OF WORK
EXIT

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No.	Description	Date
1	ADDENDUM 01	5.20.2019
2	CONFORMANCE	8.12.2019

Project Number 1820
Date 8.13.2019

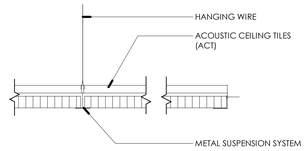
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CODE SHEET - MAIN LEVEL

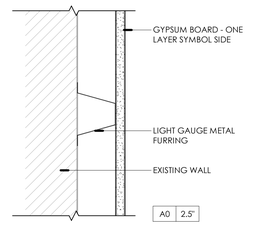
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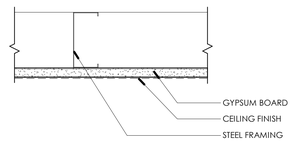
NOTES:
1. SEE DETAILS FOR SESMIC BRACING
2. PROVIDE APPROPRIATE BRACING FOR SLOPED APPLICATIONS PER SECTIONS & CEILING PLANS



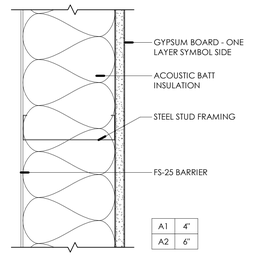
1 G0.03 **CEILING ASSEMBLY, ACT**
SCALE: 3" = 1'-0"



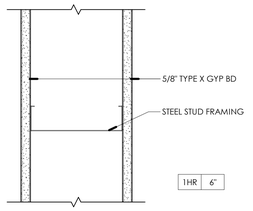
2 G0.03 **INT. MTL FURRING - GYP 1 SD**
SCALE: 3" = 1'-0"



3 G0.03 **CEILING ASSEMBLY, GWB ON FRAMING**
SCALE: 3" = 1'-0"

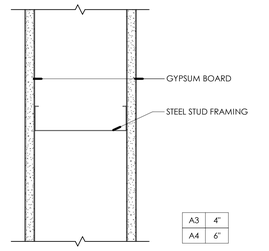


4 G0.03 **INT. MTL STUD - GYP 1 SD**
SCALE: 3" = 1'-0"

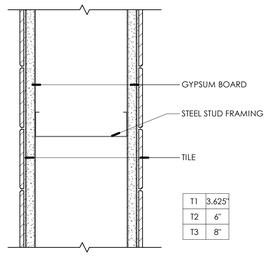


1 HOUR FIRE RATED ASSEMBLY PER **UL U419.**
STEEL STUDS BASED ON 3 5/8" DEEP, 25 GA. SPACED 24" O.C. (MINIMUM).

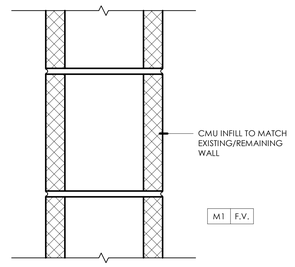
5 G0.03 **1 HR RATED WALL (UL U419)**
SCALE: 3" = 1'-0"



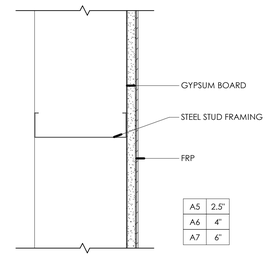
6 G0.03 **INT. MTL STUD - GYP 2 SD**
SCALE: 3" = 1'-0"



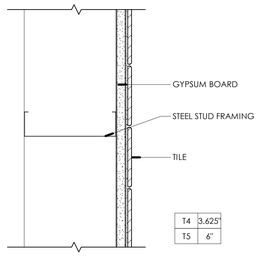
7 G0.03 **INT. MTL STUD W/ TILE 2 SIDES**
SCALE: 3" = 1'-0"



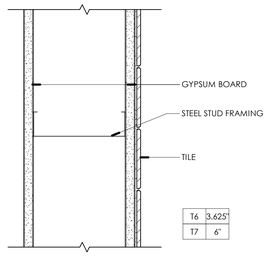
8 G0.03 **CMU INFILL WALL (To Match)**
SCALE: 3" = 1'-0"



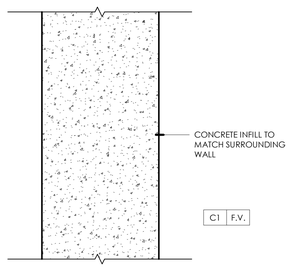
9 G0.03 **INT. MTL STUD W/ FRP 1 SIDE**
SCALE: 3" = 1'-0"



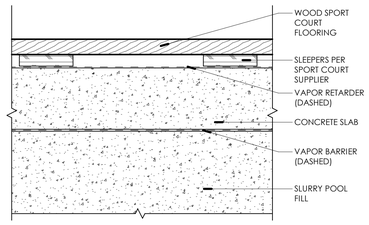
12 G0.03 **INT. MTL STUD W/ TILE 1 SIDE**
SCALE: 3" = 1'-0"



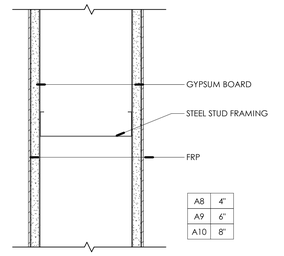
13 G0.03 **INT. MTL STUD - TILE 1 SIDE & GYP 1 SD**
SCALE: 3" = 1'-0"



14 G0.03 **CONCRETE INFILL WALL (To Match)**
SCALE: 3" = 1'-0"



10 G0.03 **SPORT FLOOR ASSEMBLY**
SCALE: 3" = 1'-0"



11 G0.03 **INT. MTL STUD W/ FRP 2 SIDES**
SCALE: 3" = 1'-0"

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No.	Description	Date
1	ADDENDUM 01	5.20.2019
1	APR 01	6.11.2019

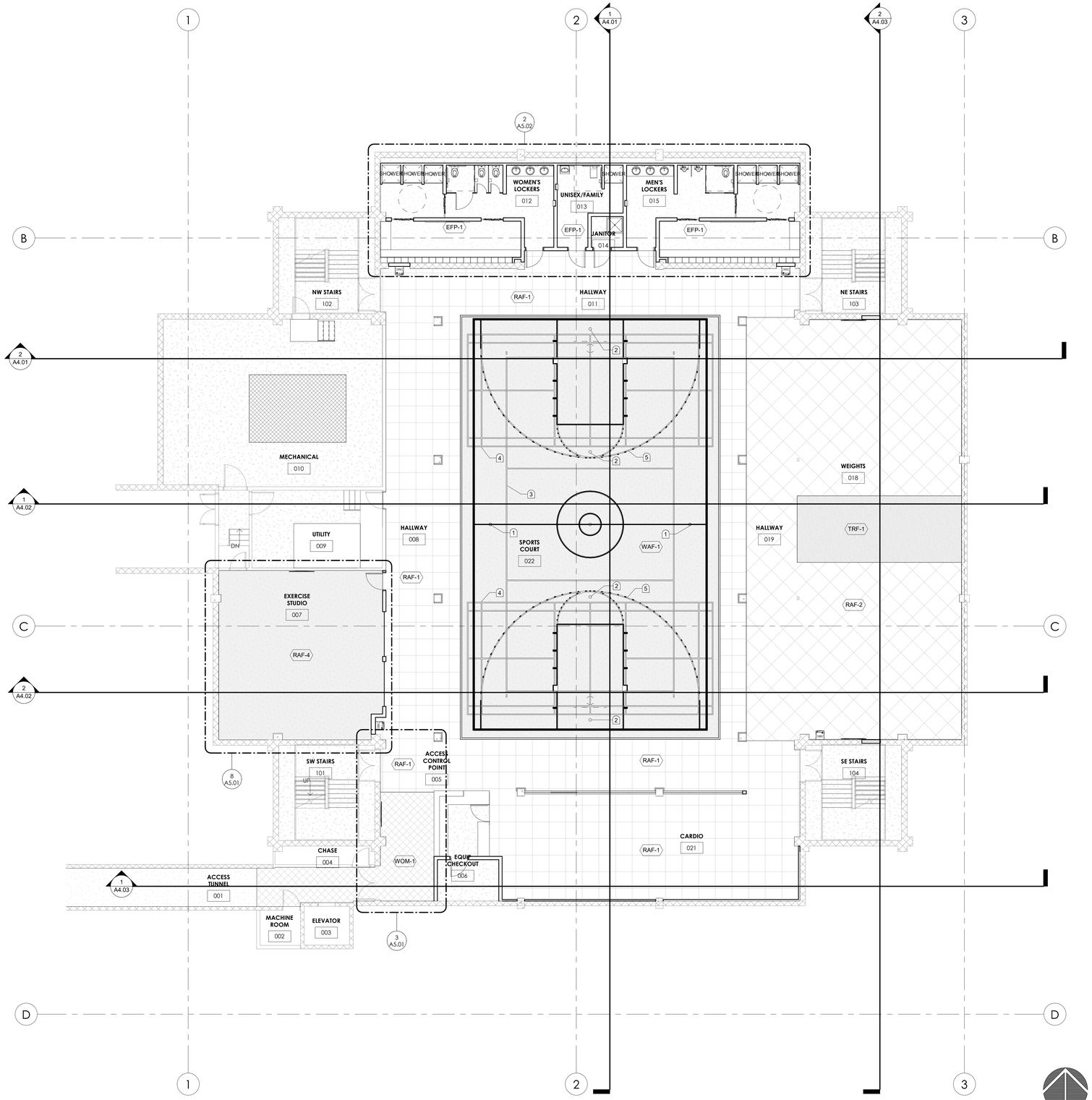
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ASSEMBLIES

G0.03

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FINISH PLAN KEYNOTES

1 VOLLEYBALL NET POST SOCKET (SEE DETAIL A2/8.22)
2 BADMINTON NET POST SOCKET (SEE DETAIL A2/8.22)
3 VOLLEYBALL COURT LINES (COLOR: GOLD)
4 BADMINTON COURT LINES (COLOR: NAVY)
5 BASKETBALL COURT LINES (COLOR: WHITE)

1 A9.01 **BASEMENT FINISH FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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1	ADDENDUM 01	5.20.2019

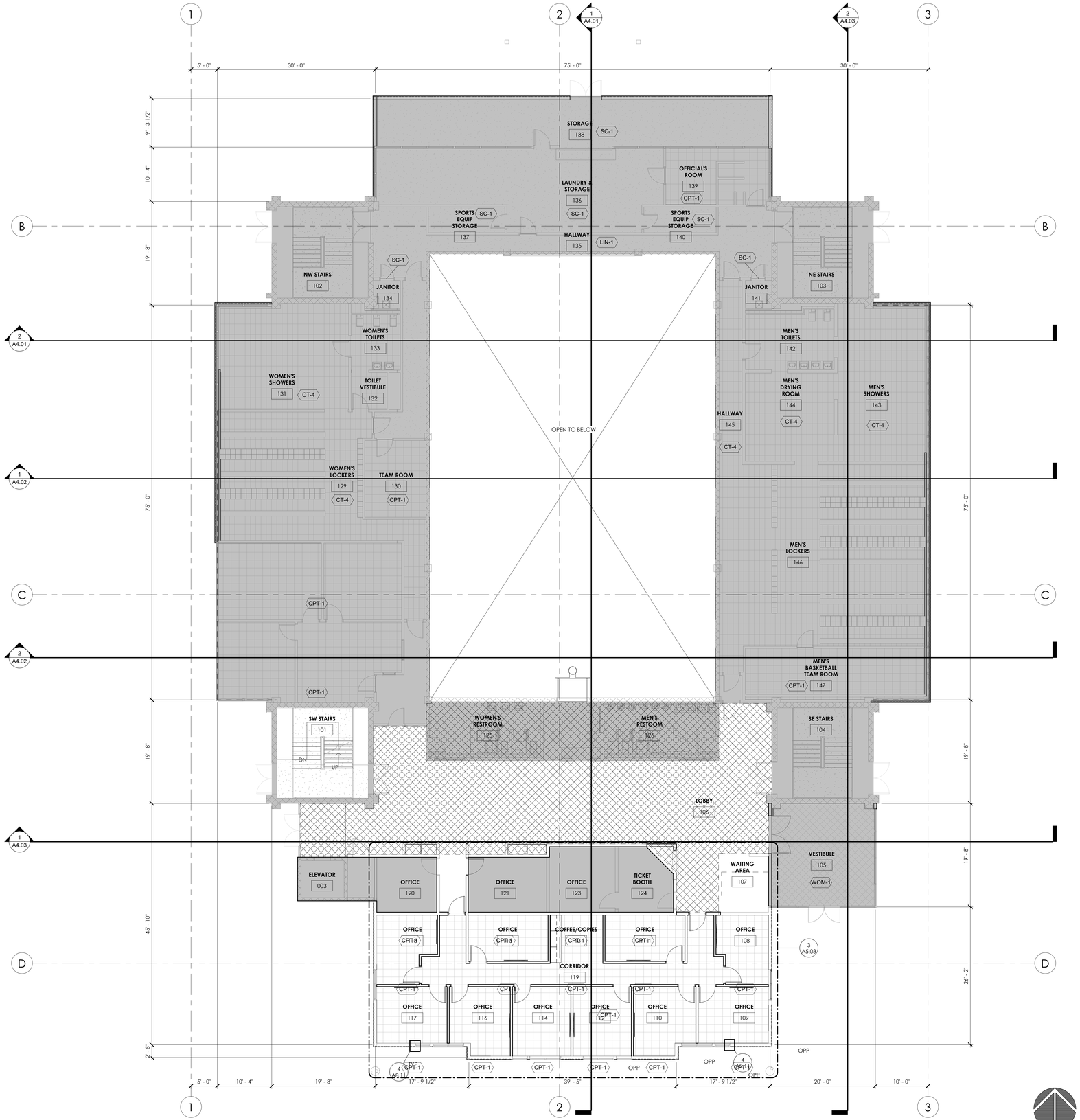
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BASEMENT FINISH FLOOR PLAN

A9.01

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PROJECT NORTH

NIC

APR 01

AREA OF WORK

1 A9.02 **MAIN LEVEL FINISH FLOOR PLAN**
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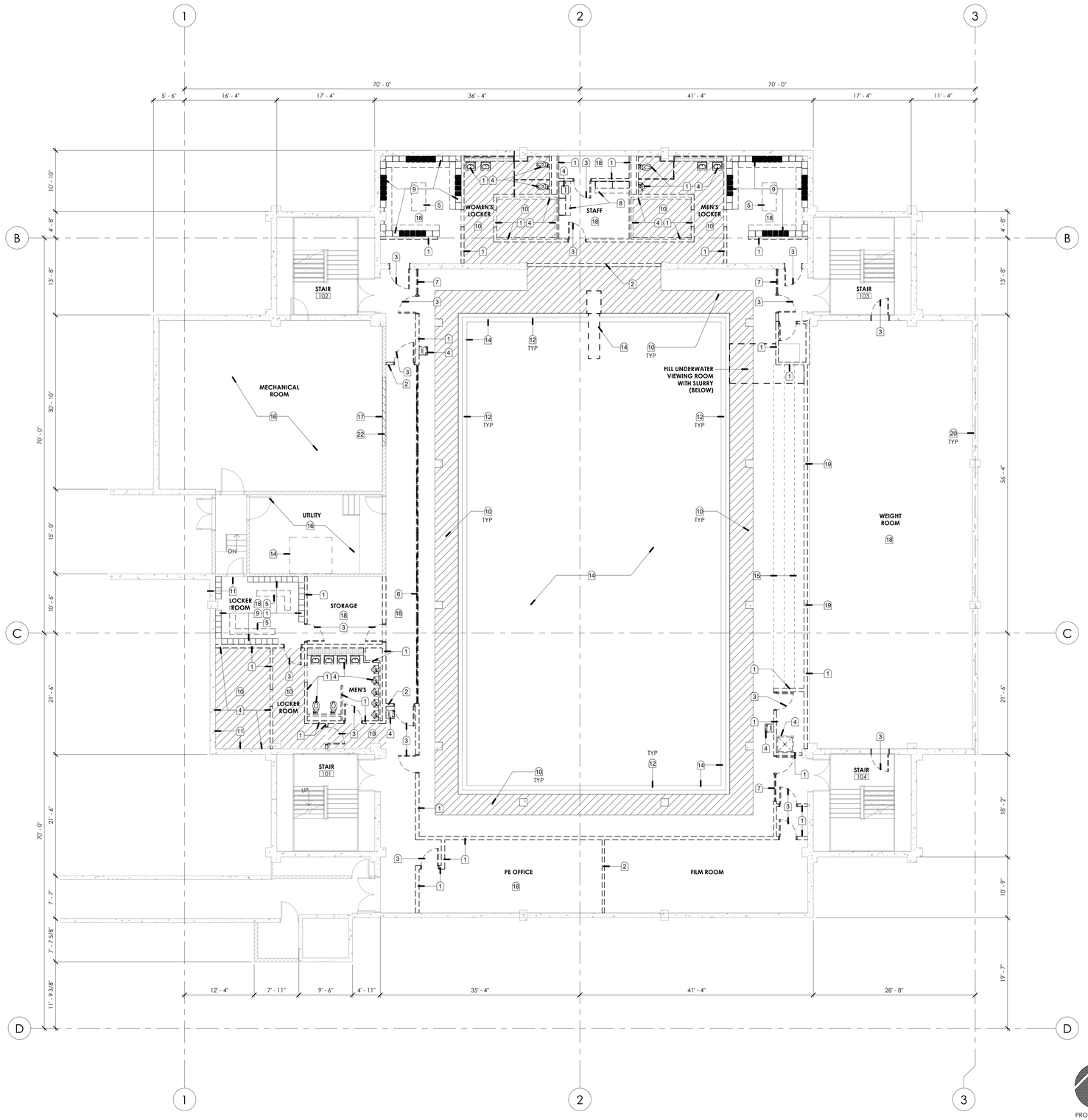
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MAIN LEVEL FINISH FLOOR PLAN

A9.02

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1 AD2.01 **POOL LEVEL DEMO PLAN**
SCALE: 1/8" = 1'-0"

DEMO PLAN GENERAL NOTES

A. SEE SHEET G0.00 FOR ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
B. VERIFY SALVAGE OF MATERIALS WITH CAMPUS FACILITIES PRIOR TO PROCEEDING WITH DEMOLITION
C. HAZARDOUS MATERIAL ABATEMENT TO BE COMPLETED BY OIT AND IS NOT PART OF THE WORK UNDER THIS CONTRACT
D. DEMO PLANS ARE GENERAL IN NATURE TO PROVIDE AN OVERALL SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND INCLUDE ALL DEMO WORK NECESSARY FOR A COMPLETE, FINISHED PROJECT
E. VERIFY ADDITIONAL DEMOLITION REQUIREMENTS WITH M/E/P DRAWINGS
F. CONTRACTOR TO VERIFY ALL SHORING AND TEMPORARY SUPPORT REQUIREMENTS AT AREAS OF DEMOLITION
G. DEMO PLANS SHOW ROOM NAMES OF EXISTING SPACES

DEMO PLAN KEYNOTES

1 REMOVE EXISTING NON- REINFORCED CMU WALL (PARTITION), RELATED EQUIPMENT MOUNTED TO IT, INCLUDING ALL FLOOR, CEILING TRANSITION ATTACHMENT & PREPARE FOR NEW FINISHES
2 REMOVE EXISTING FRAMED PARTITION WALL INCLUDING RELATED FIXTURES & MEP ITEMS
3 REMOVE EXISTING DOOR, FRAME & HARDWARE
4 REMOVE EXISTING PLUMBING FIXTURES, EQUIPMENT & ACCESSORIES
5 REMOVE EXISTING LOCKER BENCH
6 REMOVE EXISTING ALUMINUM FRAMED GLAZING WALL SYSTEM
7 REMOVE EXISTING WINDOW
8 REMOVE EXISTING CASEWORK
9 REMOVE EXISTING LOCKER ROOM FIXTURES & EQUIPMENT, INCLUDING FLOOR DRAINS
10 REMOVE EXISTING TILE FLOOR TO SLAB, INCLUDING BASE
11 REMOVE EXISTING WALL TILE TO FACE OF FINISH WALL
12 REMOVE TILE AND GRIND LIP AT POOL EDGE SMOOTH AND FLUSH WITH SURROUNDING FLOOR IN PREPARATION FOR NEW INFILL FLOOR
14 REMOVE EXISTING POOL FILTRATION, PUMP & POOL RELATED FIXTURES & EQUIPMENT
15 REMOVE EXISTING TELESCOPING BLEACHERS
16 SEE MECHANICAL DRAWINGS
17 SEE ELECTRICAL DRAWINGS
18 REMOVE EXISTING FLOOR FINISH TO SLAB, INCLUDING BASE, THROUGHOUT ROOM
19 EXISTING STEEL COLUMN TO REMAIN
20 REMOVE ANY WALL MOUNTED EQUIPMENT
21 REMOVE EXISTING OVERHEAD DOOR
22 DEMO PORTION OF WALL (SHOWN HATCHED) TO ACCOMMODATE NEW MECHANICAL EQUIPMENT. EXACT LOCATION AND EXTENTS TO BE FIELD VERIFIED AND COORDINATED WITH EXISTING AND NEW ELECTRICAL EQUIPMENT
23 REMOVE EXISTING FRAMED PARTITION WALL INCLUDING ROLLUP TICKET WINDOW. COORDINATE SALVAGE OF TICKET WINDOW WITH OREGON TECH
24 REMOVE EXISTING CASEWORK
25 REMOVE EXISTING ALUMINUM AND GLASS TROPHY CASE

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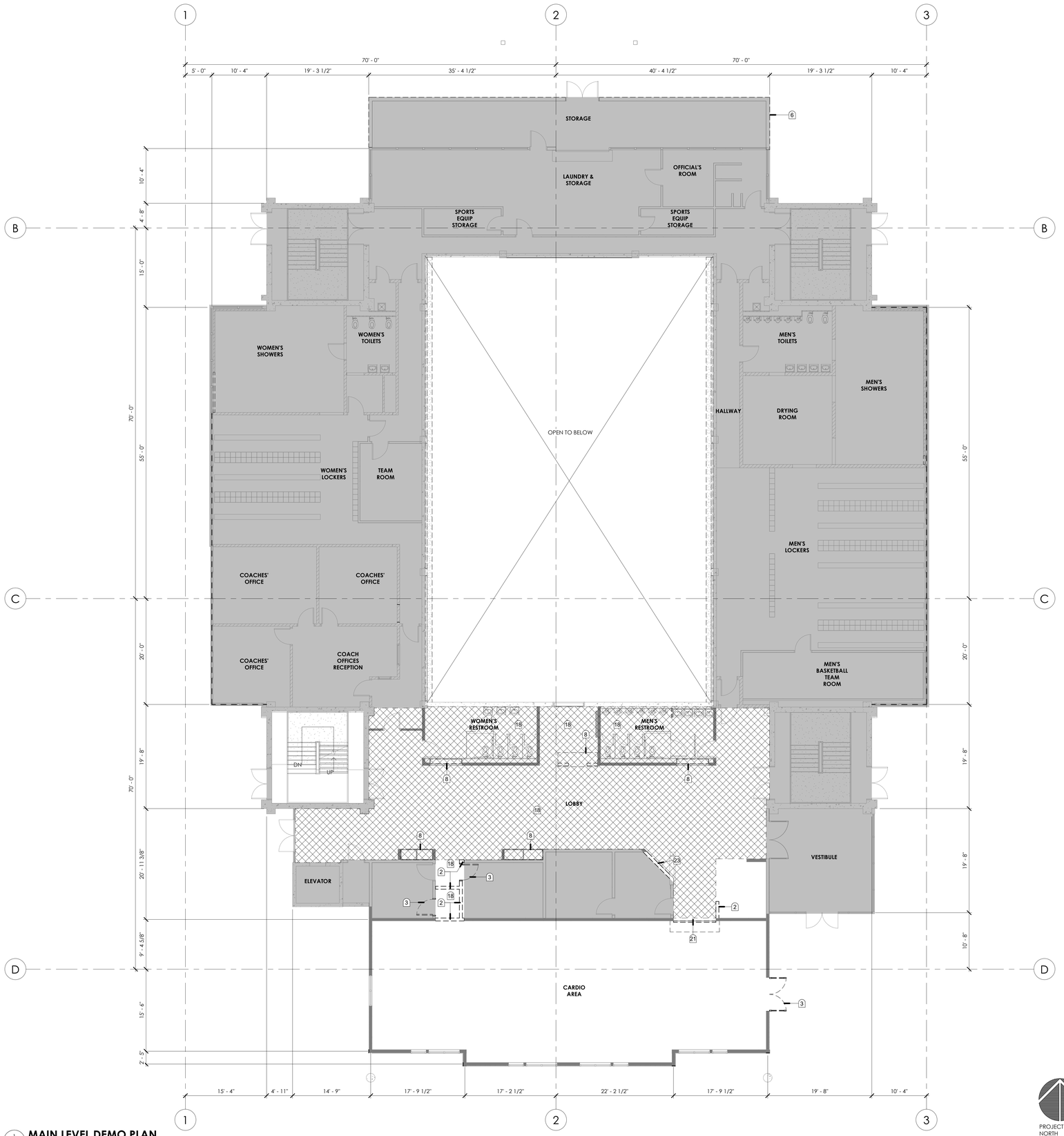
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POOL LEVEL DEMO FLOOR PLAN

AD2.01

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1 AD2.02 **MAIN LEVEL DEMO PLAN**
SCALE: 1/8" = 1'-0"

PROJECT NORTH

NIC

APR 01

AREA OF WORK

DEMO PLAN GENERAL NOTES

A. SEE SHEET G0.00 FOR ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
B. VERIFY SALVAGE OF MATERIALS WITH CAMPUS FACILITIES PRIOR TO PROCEEDING WITH DEMOLITION
C. HAZARDOUS MATERIAL ABATEMENT TO BE COMPLETED BY OIT AND IS NOT PART OF THE WORK UNDER THIS CONTRACT
D. DEMO PLANS ARE GENERAL IN NATURE TO PROVIDE AN OVERALL SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND INCLUDE ALL DEMO WORK NECESSARY FOR A COMPLETE, FINISHED PROJECT
E. VERIFY ADDITIONAL DEMOLITION REQUIREMENTS WITH M/E/P DRAWINGS
F. CONTRACTOR TO VERIFY ALL SHORING AND TEMPORARY SUPPORT REQUIREMENTS AT AREAS OF DEMOLITION
G. DEMO PLANS SHOW ROOM NAMES OF EXISTING SPACES

DEMO PLAN KEYNOTES

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3 REMOVE EXISTING DOOR, FRAME & HARDWARE
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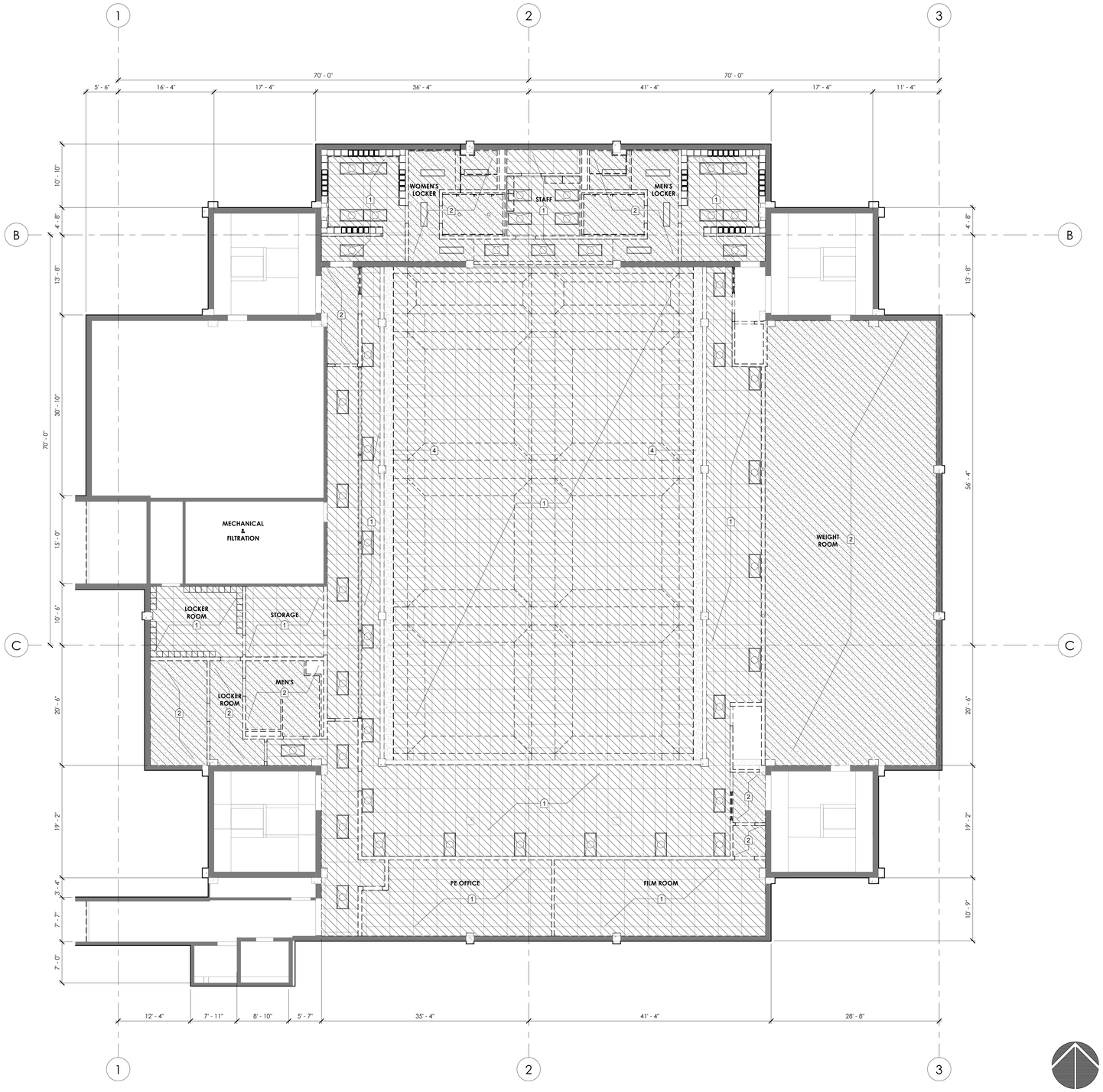
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CONFORMANCE

MAIN LEVEL DEMO PLAN

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1 AD6.01 **SRC RCP (DEMO)**
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DEMO PLAN GENERAL NOTES

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B. VERIFY SALVAGE OF MATERIALS WITH CAMPUS FACILITIES PRIOR TO PROCEEDING WITH DEMOLITION
C. HAZARDOUS MATERIAL ABATEMENT TO BE COMPLETED BY OIT AND IS NOT PART OF THE WORK UNDER THIS CONTRACT
D. DEMO PLANS ARE GENERAL IN NATURE TO PROVIDE AN OVERALL SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND INCLUDE ALL DEMO WORK NECESSARY FOR A COMPLETE, FINISHED PROJECT
E. VERIFY ADDITIONAL DEMOLITION REQUIREMENTS WITH M/E/P DRAWINGS
F. CONTRACTOR TO VERIFY ALL SHORING AND TEMPORARY SUPPORT REQUIREMENTS AT AREAS OF DEMOLITION
G. DEMO PLANS SHOW ROOM NAMES OF EXISTING SPACES

DEMO RCP KEYNOTES

1 DEMO EXISTING ACT CEILING AND RELATED EQUIPMENT MOUNTED TO IT, INCUDING ALL FIXTURES AND EQUIPMENT
2 DEMO EXISTING GYPSUM BOARD CEILING AND RELATED EQUIPMENT MOUNTED TO IT, INCUDING ALL FIXTURES AND EQUIPMENT
3 SALVAGE EXISTING FIXTURE. VERIFY WITH OWNER
4 REMOVE EXISTING SOFFIT UP LIGHTING

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REGISTERED ARCHITECT
5499
RENEE P. ALEXANDER
BEND, OREGON
STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

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Klamath Falls, OR
97601

No.	Description	Date

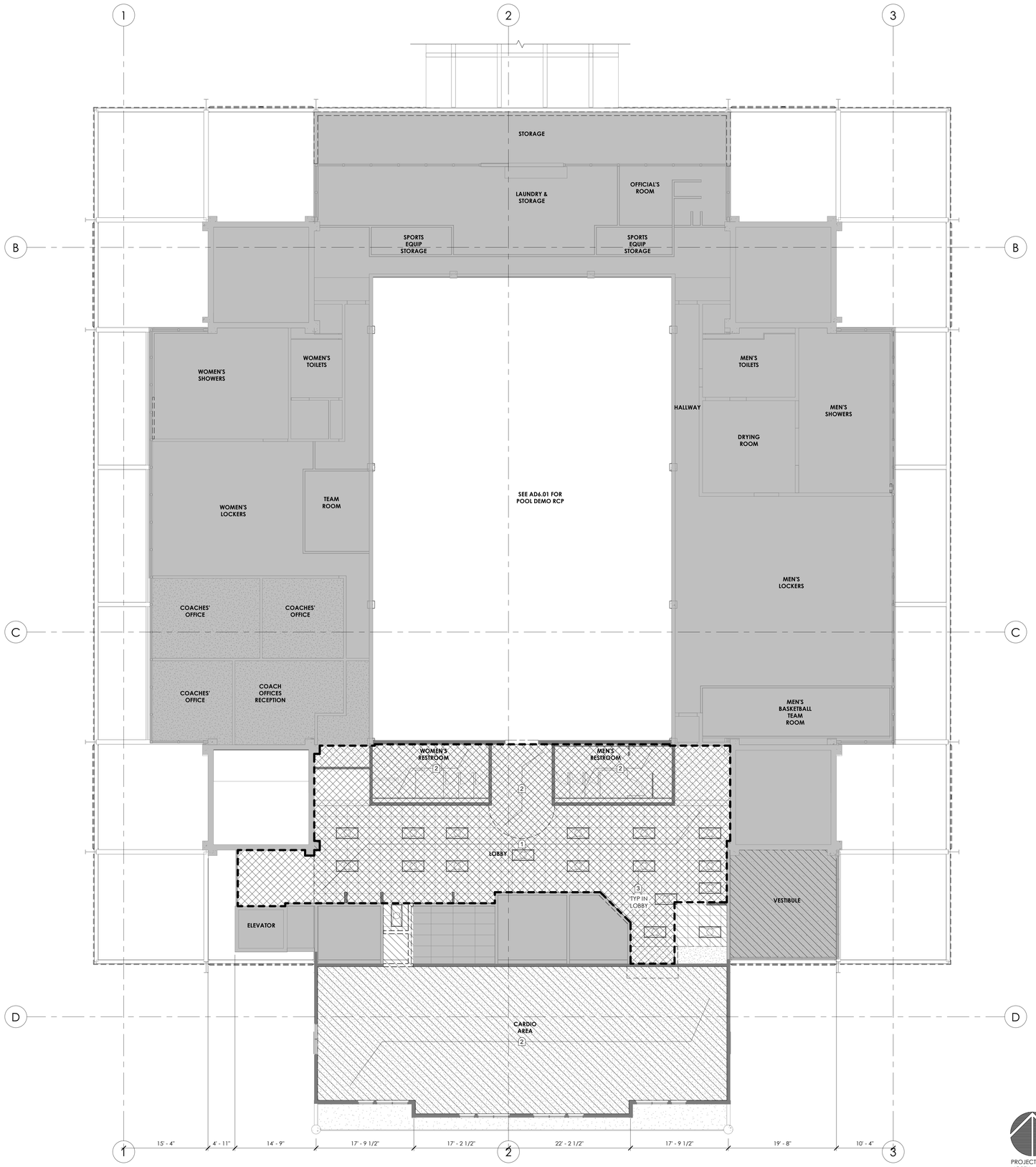
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CONFORMANCE

POOL LEVEL DEMO RCP

AD6.01

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1 AD6.02 **MAIN LEVEL RCP (DEMO)**
SCALE: 1/8" = 1'-0"

DEMO PLAN GENERAL NOTES

A. SEE SHEET G0.00 FOR ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
B. VERIFY SALVAGE OF MATERIALS WITH CAMPUS FACILITIES PRIOR TO PROCEEDING WITH DEMOLITION
C. HAZARDOUS MATERIAL ABATEMENT TO BE COMPLETED BY OIT AND IS NOT PART OF THE WORK UNDER THIS CONTRACT
D. DEMO PLANS ARE GENERAL IN NATURE TO PROVIDE AN OVERALL SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND INCLUDE ALL DEMO WORK NECESSARY FOR A COMPLETE, FINISHED PROJECT
E. VERIFY ADDITIONAL DEMOLITION REQUIREMENTS WITH M/E/P DRAWINGS
F. CONTRACTOR TO VERIFY ALL SHORING AND TEMPORARY SUPPORT REQUIREMENTS AT AREAS OF DEMOLITION
G. DEMO PLANS SHOW ROOM NAMES OF EXISTING SPACES

DEMO RCP KEYNOTES

1 DEMO EXISTING ACT CEILING AND RELATED EQUIPMENT MOUNTED TO IT, INCUDING ALL FIXTURES AND EQUIPMENT
2 DEMO EXISTING GYPSUM BOARD CEILING AND RELATED EQUIPMENT MOUNTED TO IT, INCUDING ALL FIXTURES AND EQUIPMENT
3 SALVAGE EXISTING FIXTURE. VERIFY WITH OWNER
4 REMOVE EXISTING SOFFIT UP LIGHTING

NIC

APR 01

AREA OF WORK

PROJECT NORTH

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No.	Description	Date
1	ADDENDUM 01	5.20.2019
1	APR 01	6.11.2019

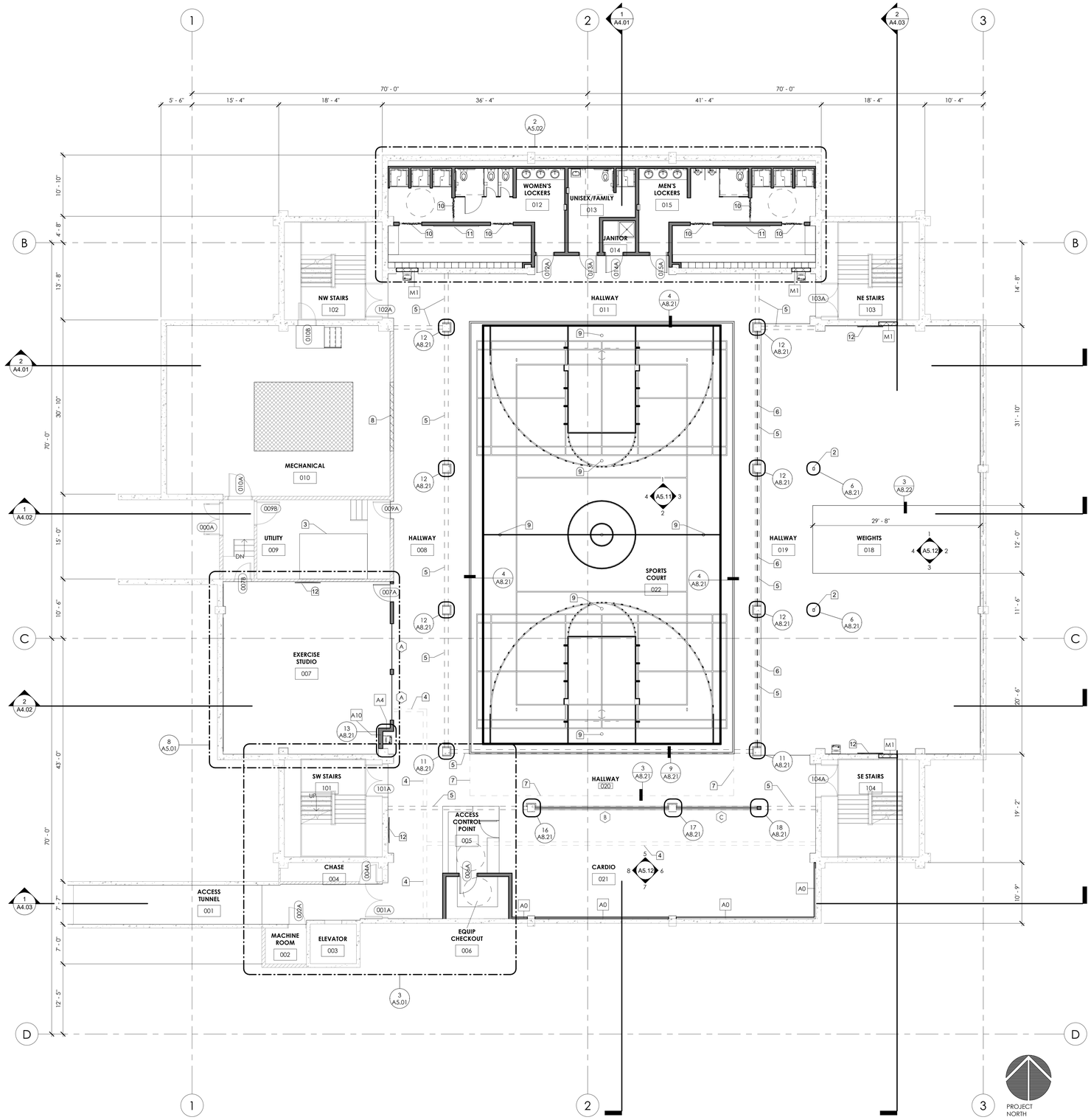
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Date 8.13.2019

CONFORMANCE

MAIN LEVEL DEMO RCP

AD6.02

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1 A2.01 **BASEMENT FLOOR PLAN**
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. SEE SHEET G0.01 FOR ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
B. SEE SHEET G0.04 FOR WALL TYPES
C. SEE SHEET A8.01 FOR DOOR SCHEDULE
D. PLAN DIMENSIONS ARE MEASURED FROM THE OUTSIDE FACE OF STUDS / FACE OF CONCRETE ON EXTERIOR WALLS TO THE CENTER LINES OF INTERIOR WALLS AND OPENINGS U.N.O.
E. GRID LINES ALIGN WITH FACE OF STUD U.N.O.

FLOOR PLAN KEYNOTES

1 (REMOVED)
2 EXISTING STEEL COLUMNS TO RECEIVE PADDING
3 NEW STEEL PLATFORM EXTENSION OF EXISTING PLATFORM FOR STORAGE
4 LIGHT GRAY DASHED LINES REPRESENT WHERE, AFTER REMOVING CMU WALLS, GROUT SHALL INFILL RECESSED PORTIONS OF SLAB FLUSH WITH EXISTING SLAB
5 CONCRETE SOFFIT WALL ABOVE SHOWN DASHED
6 GYM DIVIDER NET, PARTY RESPONSIBLE FOR INSTALLATION TBD
7 LIGHT GRAY DASHED LINES REPRESENTS INSIDE POOL EDGE BELOW FINISHED FLOORING
8 NEW INFILL WALL - WALL TYPE M1 (SHOWN HATCHED) - EXACT LOCATION AND EXTENTS TO BE FIELD VERIFIED AND COORDINATED WITH EXISTING AND NEW ELECTRICAL EQUIPMENT
9 SLEEVE IN FLOOR TO RECEIVE VOLLEYBALL/BADMINTON NET POLES (SEE DETAIL A2/A8.11)
10 PRIVACY CURTAIN
11 MARKER BOARD, OFOI
12 PROVIDE POWER AND SIGNAL TO OFOI TV
13 EXISTING FLOOR DRAINS TO BE RETAINED TO SERVE RENOVATED RESTROOMS

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REC CENTER FLOOR PLAN

A2.01

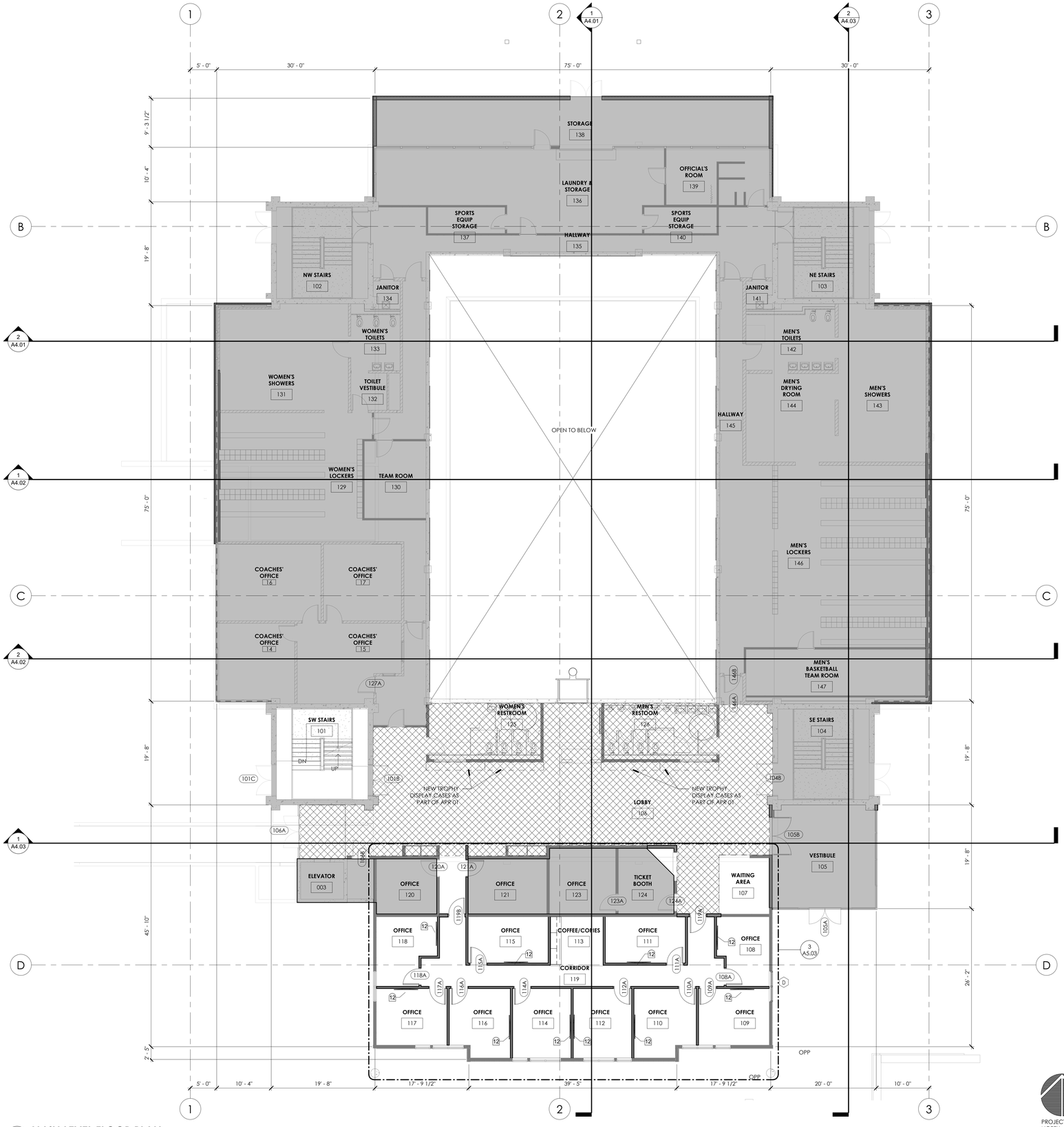
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GENERAL NOTES

A. SEE SHEET G0.01 FOR ARCHITECTURAL ABBREVIATIONS AND SYMBOLS
B. SEE SHEET G0.04 FOR WALL TYPES
C. SEE SHEET A8.01 FOR DOOR SCHEDULE
D. PLAN DIMENSIONS ARE MEASURED FROM THE OUTSIDE FACE OF STUDS / FACE OF CONCRETE ON EXTERIOR WALLS TO THE CENTER LINES OF INTERIOR WALLS AND OPENINGS U.N.O.
E. GRID LINES ALIGN WITH FACE OF STUD U.N.O.

FLOOR PLAN KEYNOTES

1 (REMOVED)
2 EXISTING STEEL COLUMNS TO RECEIVE PADDING
3 NEW STEEL PLATFORM EXTENSION OF EXISTING PLATFORM FOR STORAGE
4 LIGHT GRAY DASHED LINES REPRESENT WHERE, AFTER REMOVING CMU WALLS, GROUT SHALL INFILL RECESSED PORTIONS OF SLAB FLUSH WITH EXISTING SLAB
5 CONCRETE SOFFIT WALL ABOVE SHOWN DASHED
6 GYM DIVIDER NET. PARTY RESPONSIBLE FOR INSTALLATION TBD
7 LIGHT GRAY DASHED LINES REPRESENTS INSIDE POOL EDGE BELOW FINISHED FLOORING
8 NEW INFILL WALL - WALL TYPE M1 (SHOWN HATCHED) - EXACT LOCATION AND EXTENTS TO BE FIELD VERIFIED AND COORDINATED WITH EXISTING AND NEW ELECTRICAL EQUIPMENT
9 SLEEVE IN FLOOR TO RECEIVE VOLLEYBALL/BADMINTON NET POLES (SEE DETAIL A2/A8.11)
10 PRIVACY CURTAIN
11 MARKER BOARD, OFOI
12 PROVIDE POWER AND SIGNAL TO OFOI TV
13 EXISTING FLOOR DRAINS TO BE RETAINED TO SERVE RENOVATED RESTROOMS



NIC

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AREA OF WORK

PROJECT NORTH

1 A2.02 **MAIN LEVEL FLOOR PLAN**
SCALE: 1/8" = 1'-0"

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No.	Description	Date
1	ADDENDUM 01	5.20.2019
1	APR 01	6.11.2019

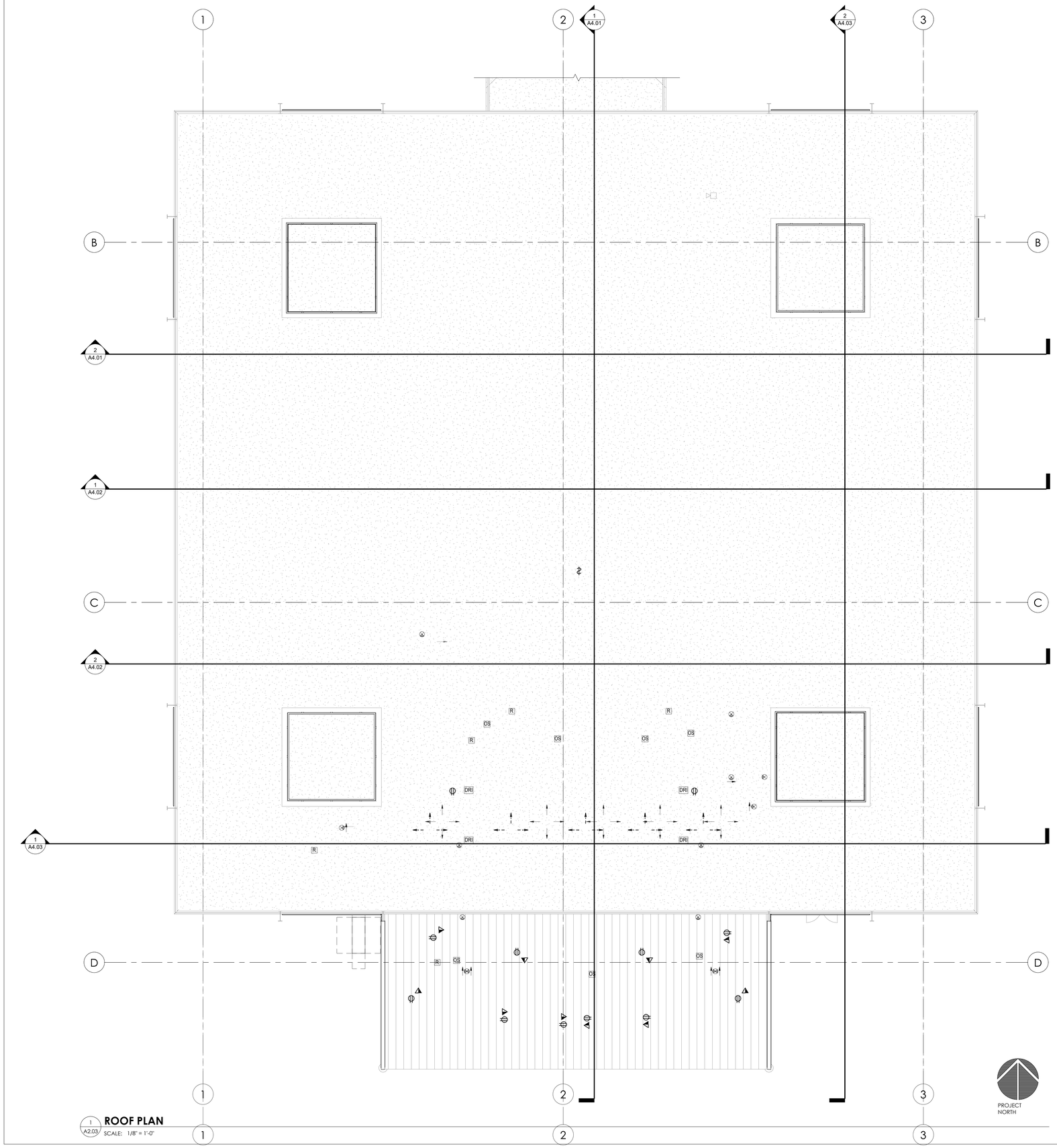
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CONFORMANCE

MAIN LEVEL FLOOR PLAN

A2.02

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1 A2.03 **ROOF PLAN**
SCALE: 1/8" = 1'-0"

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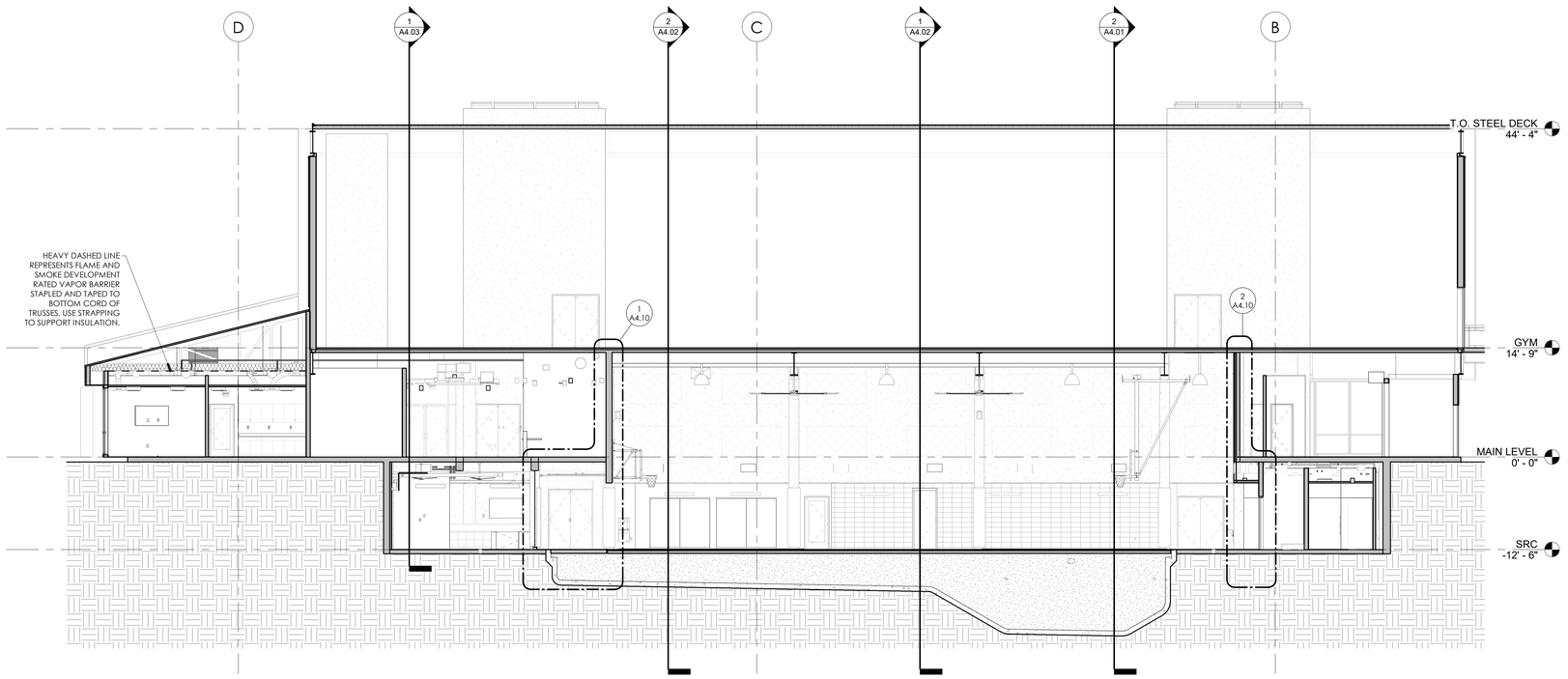
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ROOF PLAN (NOT USED)

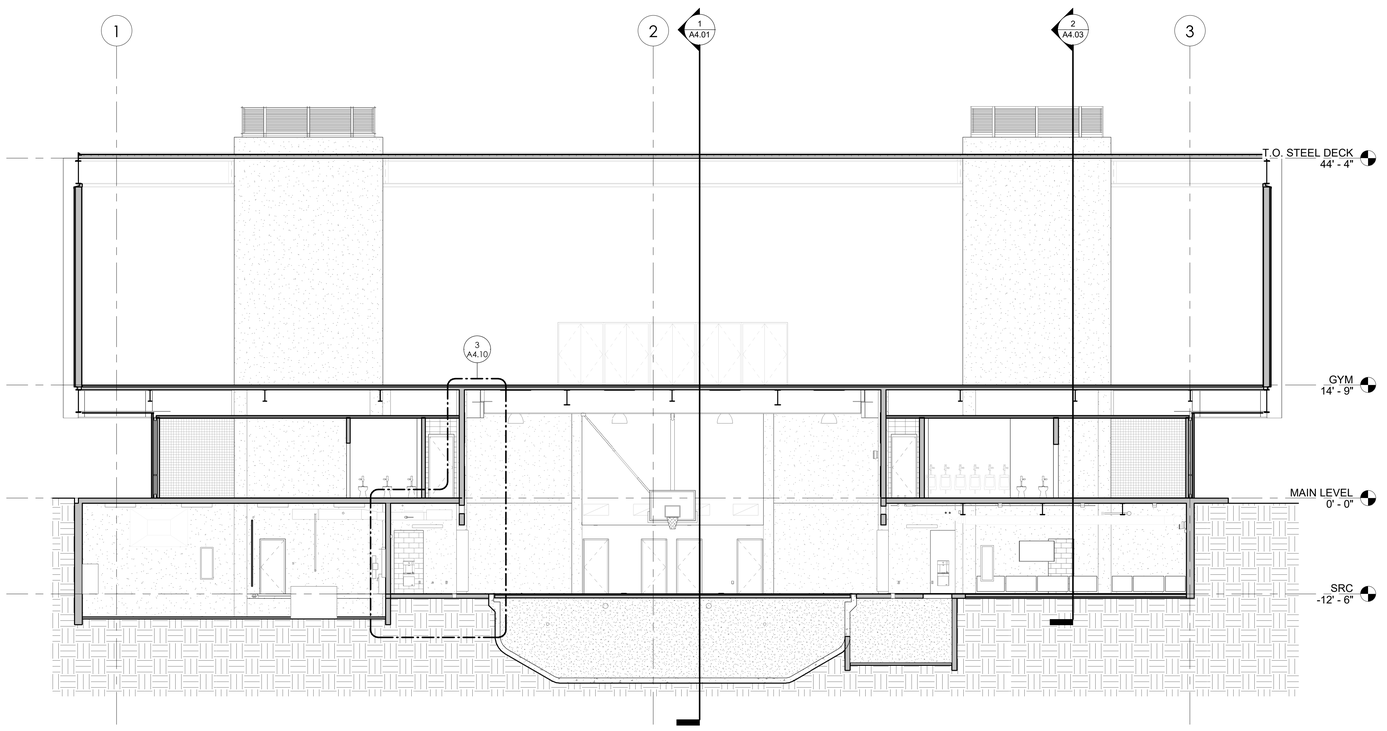
A2.03

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1 A4.01 **LONGITUDINAL SECTION THROUGH POOL**

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



2 A4.01 **TRANSVERSE SECTION THROUGH POOL**

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

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No.	Description	Date
3	RFI #3	7.31.2019

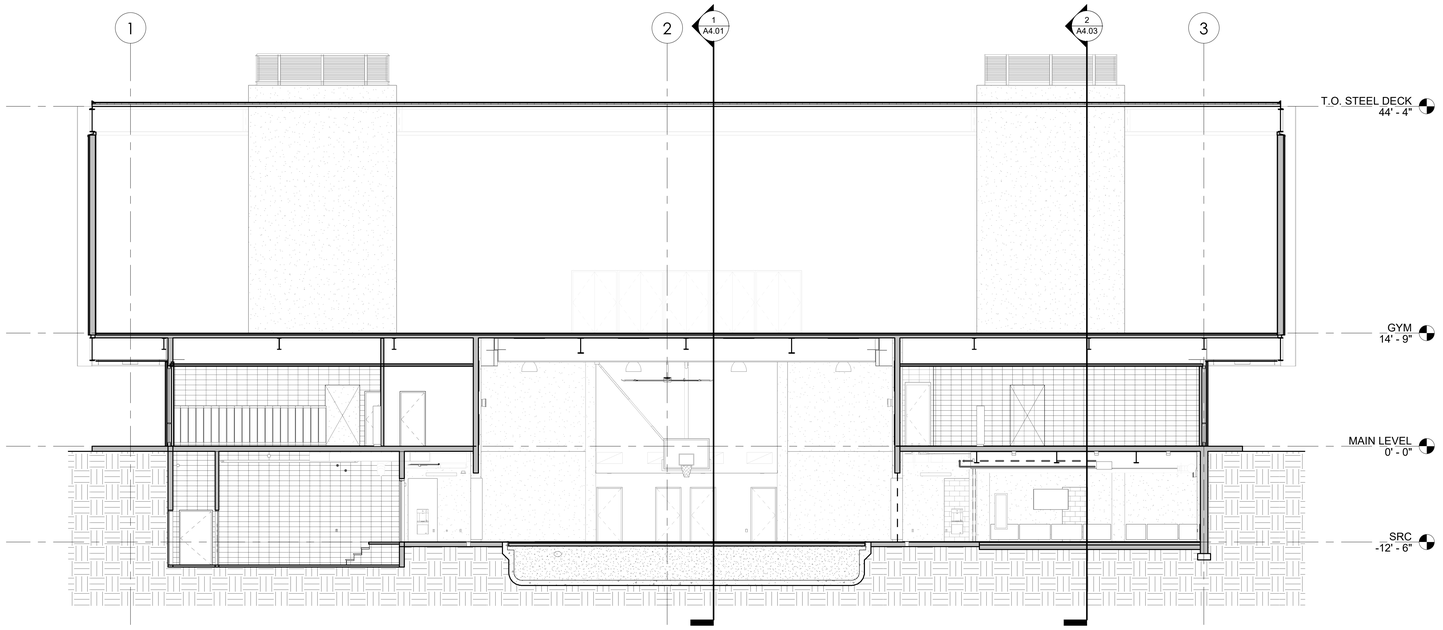
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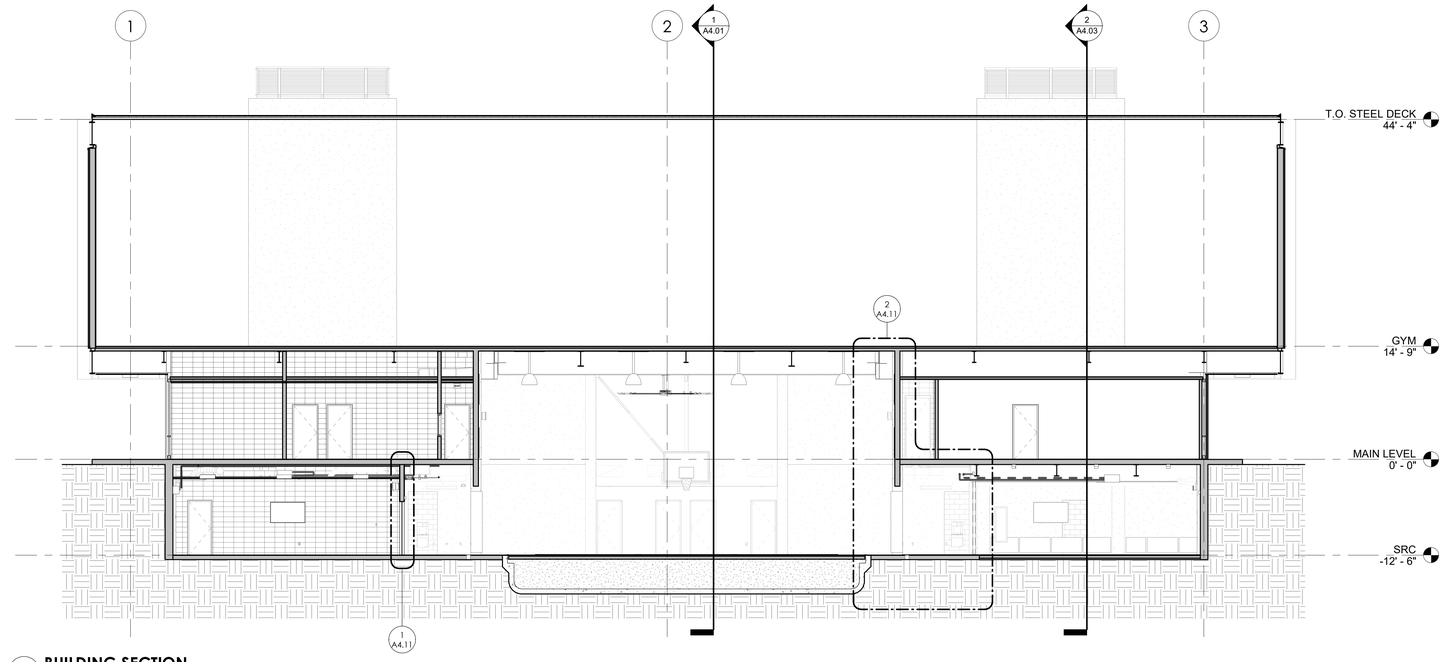
BUILDING SECTIONS

A4.01

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1 A4.02 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"



2 A4.02 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"

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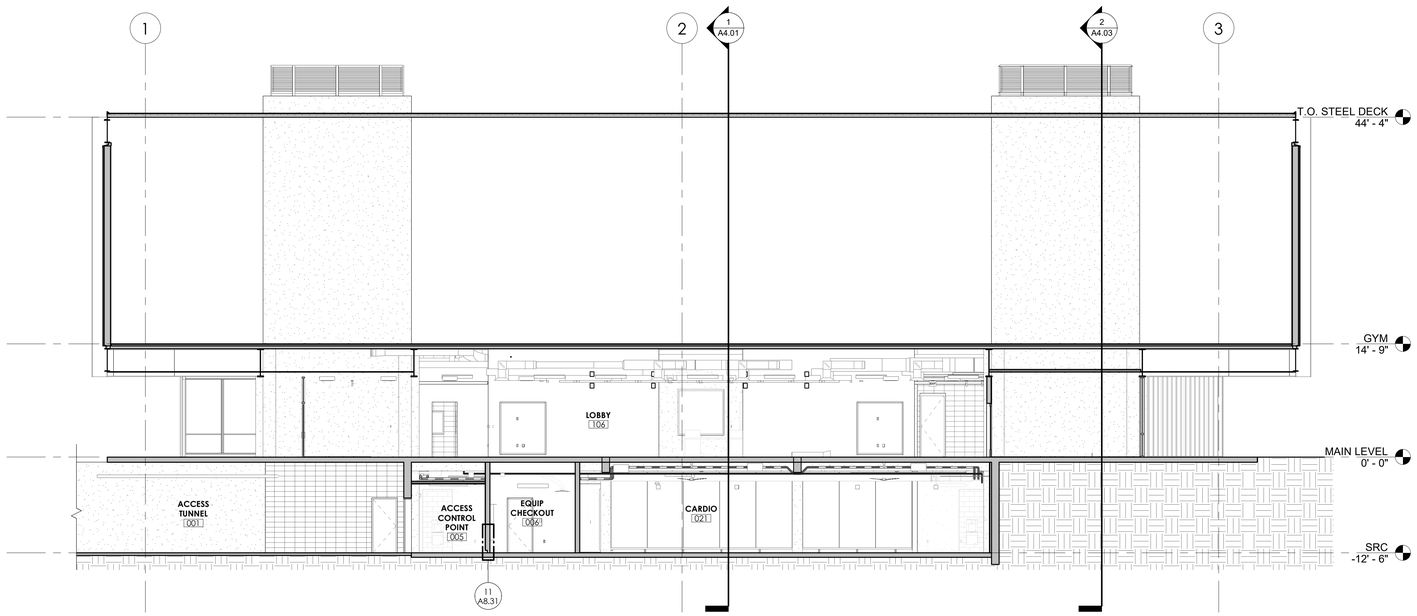
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BUILDING SECTIONS

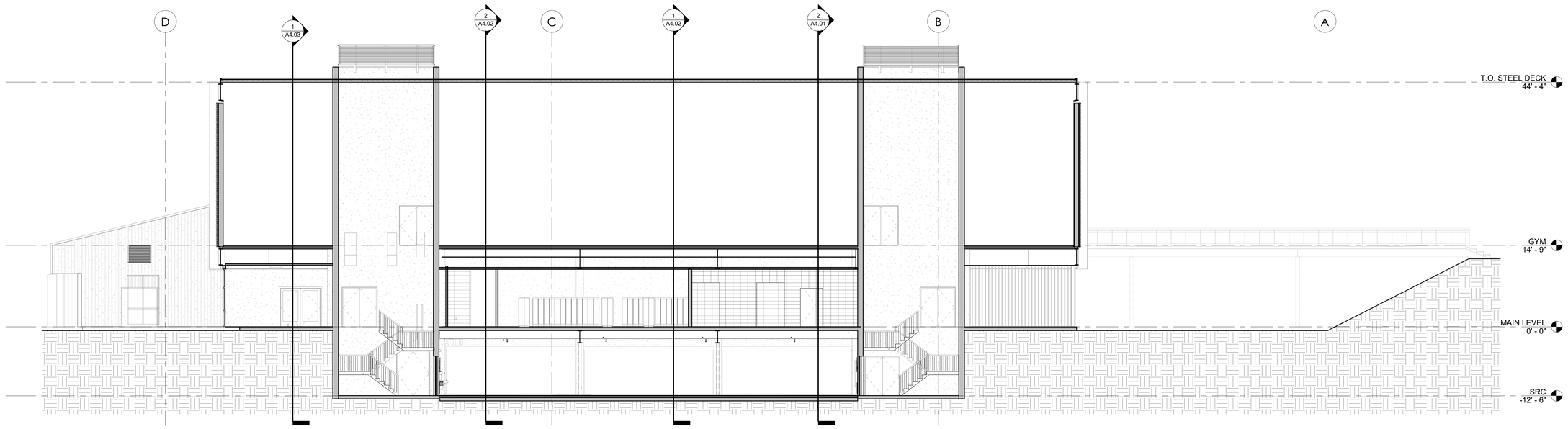
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1 A4.03 **BUILDING SECTION**

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



2 A4.03 **BUILDING SECTION**

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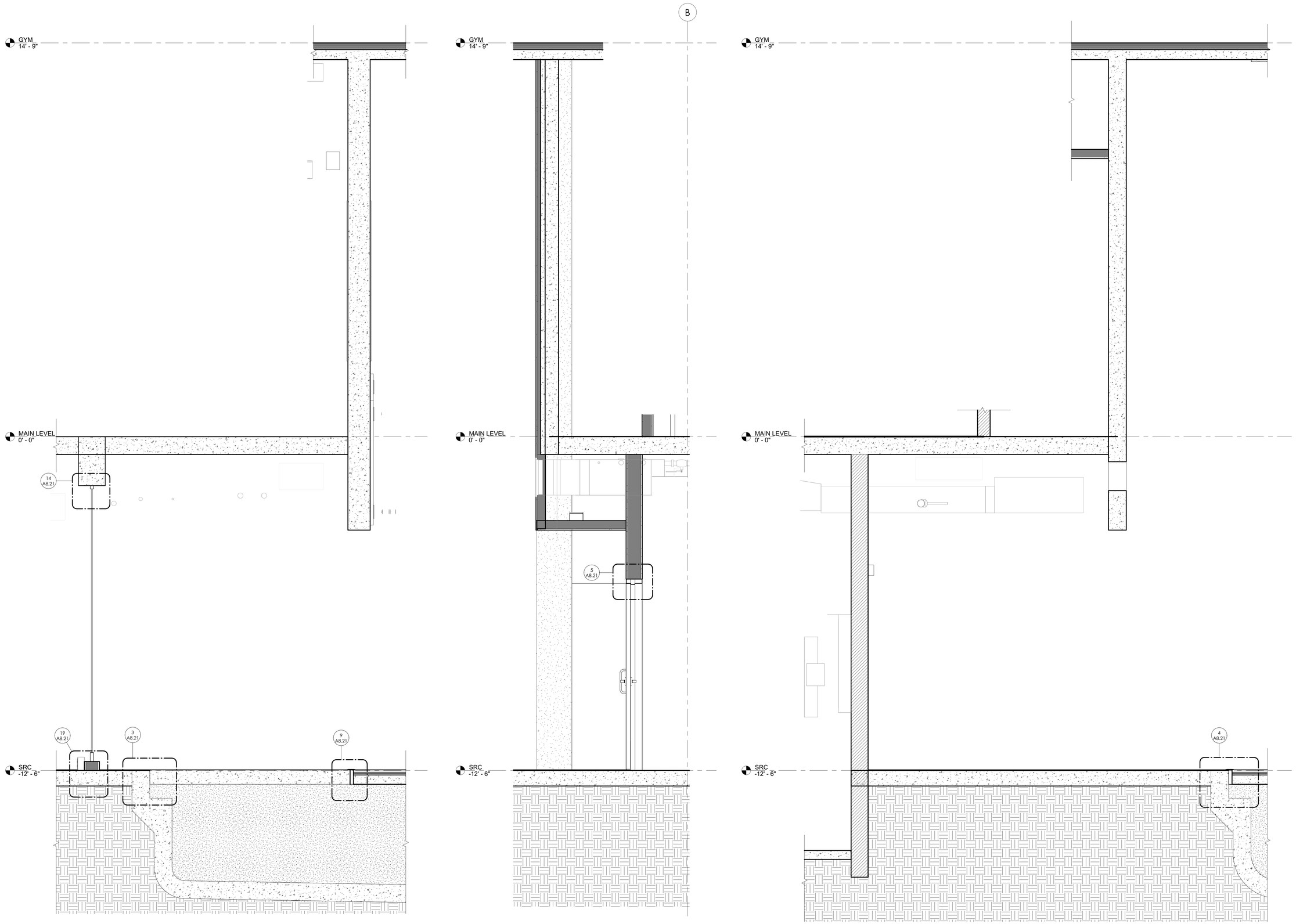
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BUILDING SECTIONS

A4.03

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1 A4.10 **WALL SECTION @ CARDIO**
SCALE: 3/4" = 1'-0"

2 A4.10 **WALL SECTION @ LOCKER ROOMS**
SCALE: 3/4" = 1'-0"

3 A4.10 **WALL SECTION @ MECHANICAL ROOM**
SCALE: 3/4" = 1'-0"

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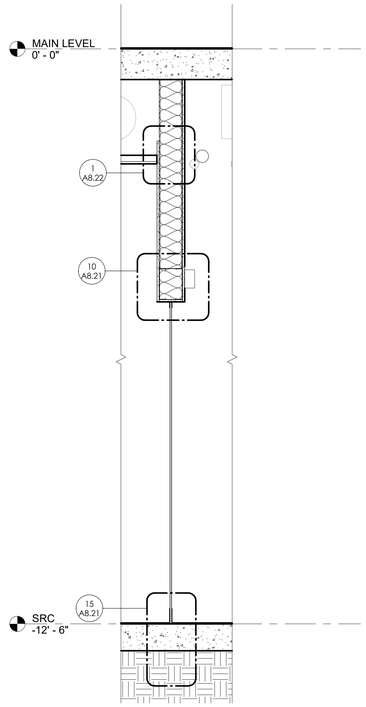
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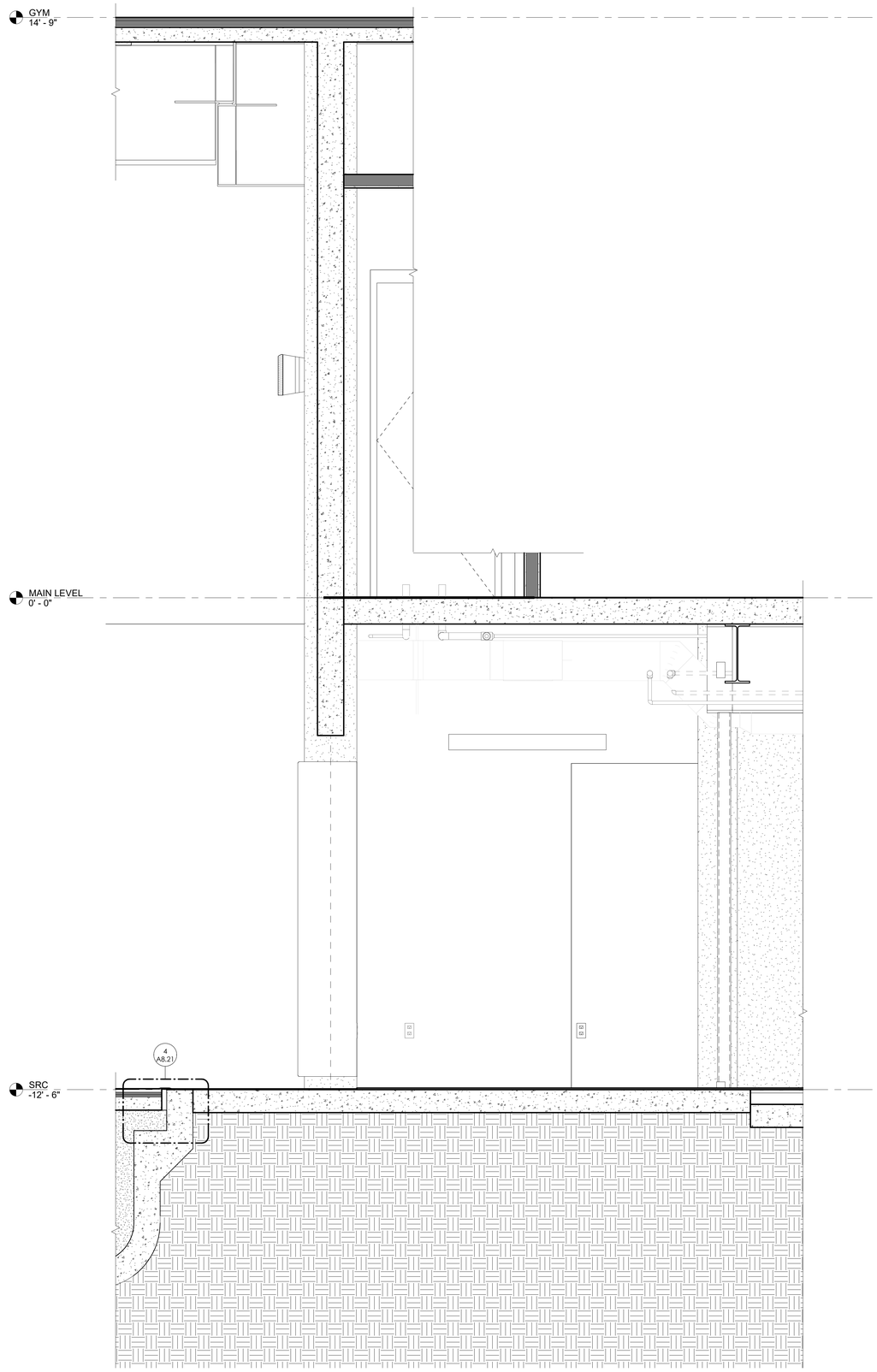
WALL SECTIONS

A4.10

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1 A4.11 **WALL SECTION @ EXERCISE STUDIO GLAZING**
SCALE: 3/4" = 1'-0"



2 A4.11 **WALL SECTION @ WEIGHT ROOM**
SCALE: 3/4" = 1'-0"

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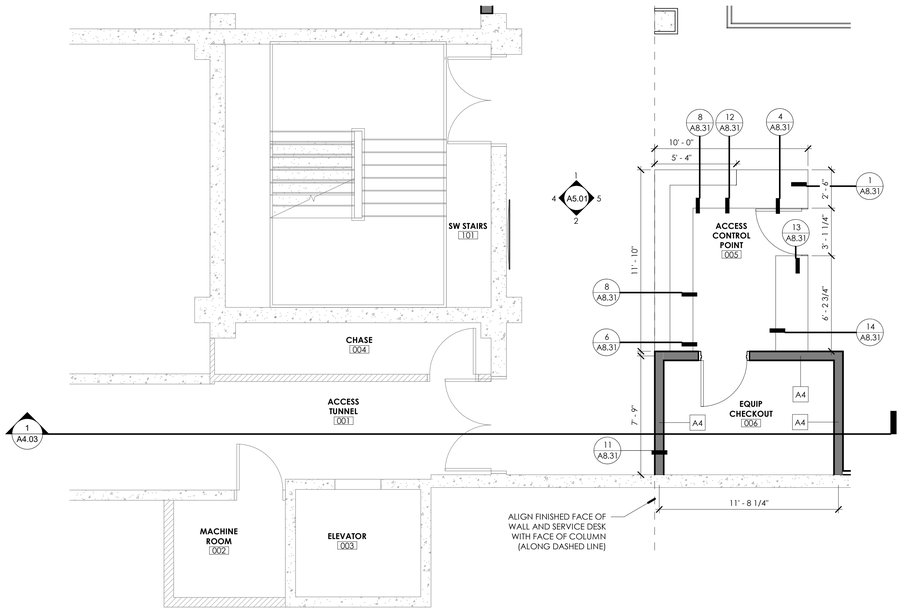
WALL SECTIONS

A4.11

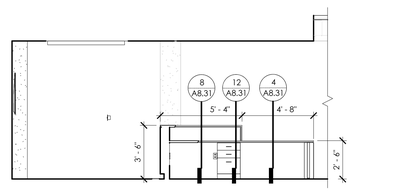
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INTERIOR KEYNOTES

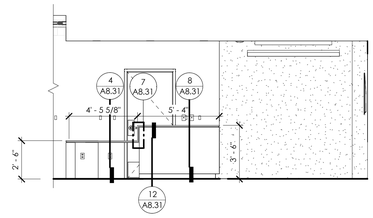
1 PROVIDE POWER AND DATA TO OFOI SCORE BOARD
2 PROVIDE POWER AND SIGNAL FOR OFOI TV
3 HDPE OR UHMW WALL PROTECTION
4 MIRROR ADHERED TO WALL
5 SOUND ATTENUATING PANEL
6 PARTITION NET CLIPPED TO ANCHORS AT COLUMNS AND SOFFIT WALL, OFOI
7 PROVIDE POWER AND SINGNAL TO OFOI SPEAKER



3 A5.01 **ENLARGED ACCESS CONTROL**
SCALE: 1/4" = 1'-0"

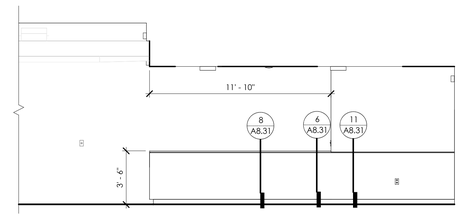


1 A5.01 **ACCESS CONTROL**
SCALE: 1/4" = 1'-0"



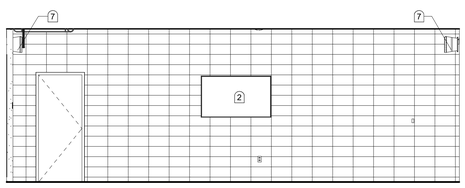
2 A5.01 **ACCESS CONTROL**
SCALE: 1/4" = 1'-0"

4 A5.01 **ACCESS CONTROL**
SCALE: 1/4" = 1'-0"

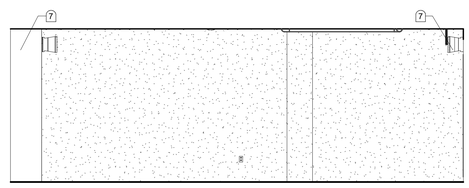


5 A5.01 **ACCESS CONTROL**
SCALE: 1/4" = 1'-0"

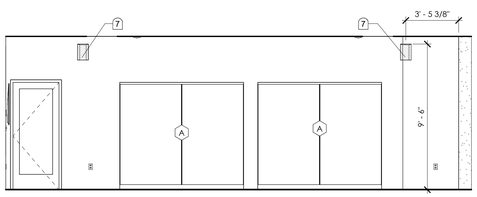
8 A5.01 **ENLARGED EXERCISE STUDIO**
SCALE: 1/4" = 1'-0"



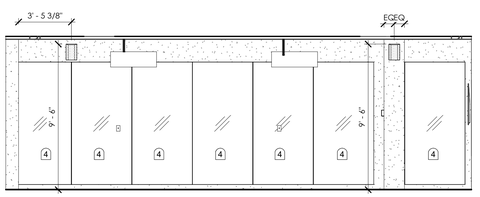
6 A5.01 **EXERCISE STUDIO**
SCALE: 1/4" = 1'-0"



7 A5.01 **EXERCISE STUDIO**
SCALE: 1/4" = 1'-0"



9 A5.01 **EXERCISE STUDIO**
SCALE: 1/4" = 1'-0"



10 A5.01 **EXERCISE STUDIO**
SCALE: 1/4" = 1'-0"

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No.	Description	Date
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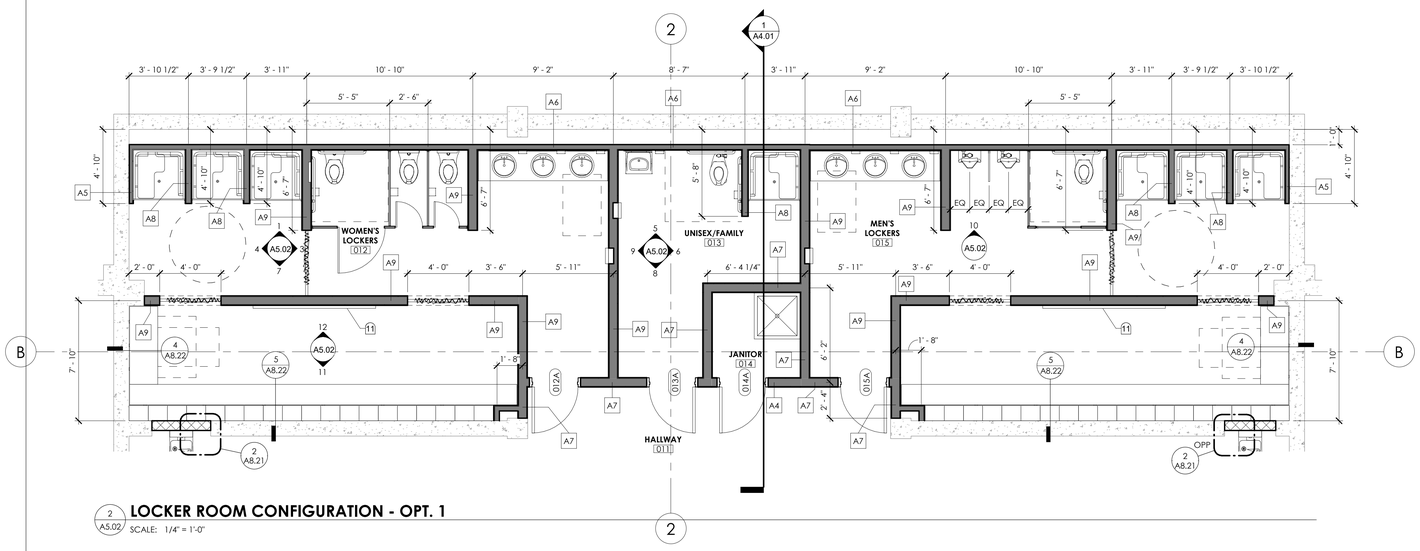
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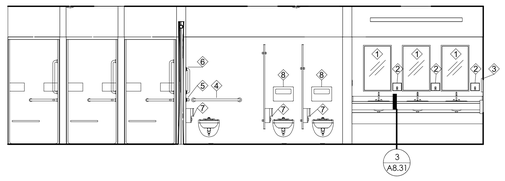
ENLARGED PLANS

A5.01

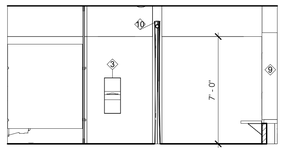
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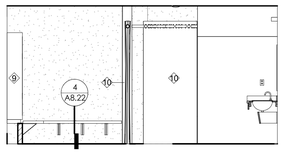
2 A5.02 **LOCKER ROOM CONFIGURATION - OPT. 1**
SCALE: 1/4" = 1'-0"



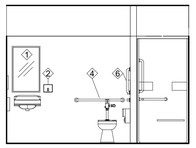
1 A5.02 **WOMEN'S LOCKERS**
SCALE: 1/4" = 1'-0"



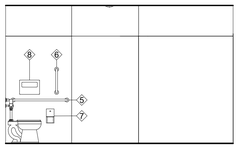
3 A5.02 **WOMEN'S LOCKERS**
SCALE: 1/4" = 1'-0"



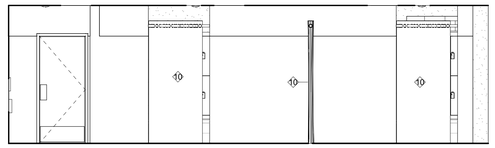
4 A5.02 **WOMEN'S LOCKERS**
SCALE: 1/4" = 1'-0"



5 A5.02 **UNISEX/FAMILY**
SCALE: 1/4" = 1'-0"

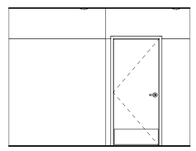


6 A5.02 **UNISEX/FAMILY**
SCALE: 1/4" = 1'-0"

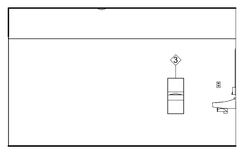


7 A5.02 **WOMEN'S LOCKERS**
SCALE: 1/4" = 1'-0"

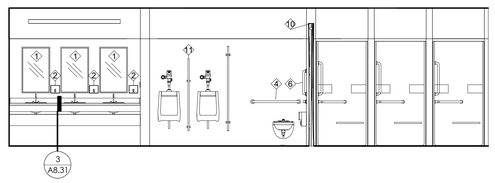
TOILET ACCESSORY		
TYPE MARK	DESCRIPTION	Comments
1	Glass Mirror with Stainless Steel Angle Frame	
2	Contura Series Surface Mounted Soap Dispenser	
3	Recessed Paper Towel Dispenser And Waste Receptacle	
4	Grab Bars	
5	Grab Bars	
6	Grab Bars	
7	Surface-Mounted Multi-Roll Toilet Tissue Dispenser	
8	Surface-Mounted Seat Cover Dispenser	
9	2-tier HDPE locker	
10	Privacy curtain	
11	Wall Hung Urinal Screen	
12	MARKER BOARD (OFOI)	
13	SURFACE MOUNTED PAPER TOWEL DISPENSER	
14	RECESSED SANITARY NAPKIN DISPENSER	
15	SURFACE MOUNTED BABY CHANGING STATION	
16	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	
17	RECESSED SEAT COVER DISPENSER	



8 A5.02 **UNISEX/FAMILY**
SCALE: 1/4" = 1'-0"



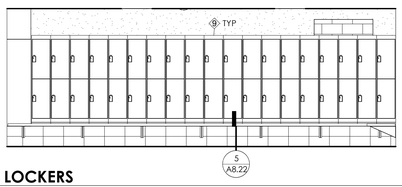
9 A5.02 **UNISEX/FAMILY**
SCALE: 1/4" = 1'-0"



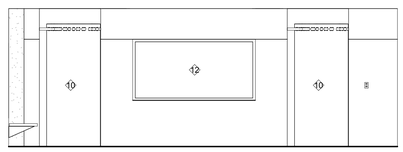
10 A5.02 **MEN'S LOCKERS**
SCALE: 1/4" = 1'-0"

INTERIOR KEYNOTES

1 PROVIDE POWER AND DATA TO OFOI SCORE BOARD
2 PROVIDE POWER AND SIGNAL FOR OFOI TV
3 HDPE OR UHMW WALL PROTECTION
4 MIRROR ADHERED TO WALL
5 SOUND ATTENUATING PANEL
6 PARTITION NET CLIPPED TO ANCHORS AT COLUMNS AND SOFFIT WALL, OFOI
7 PROVIDE POWER AND SINGNAL TO OFOI SPEAKER

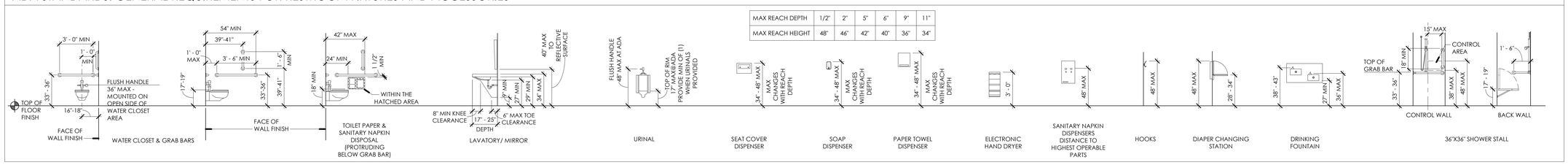


11 A5.02 **LOCKERS**
SCALE: 1/4" = 1'-0"



12 A5.02 **CHALK TALK**
SCALE: 1/4" = 1'-0"

ADA STANDARDS: GENERAL REQUIREMENTS FOR RESTROOM FIXTURES AND ACCESSORIES



13 A5.02 **ADA STANDARDS**
SCALE: 1/4" = 1'-0"

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No.	Description	Date
1	ADDENDUM 01	5.20.2019

Project Number 1820
Date 8.13.2019

CONFORMANCE

ENLARGED PLANS

A5.02

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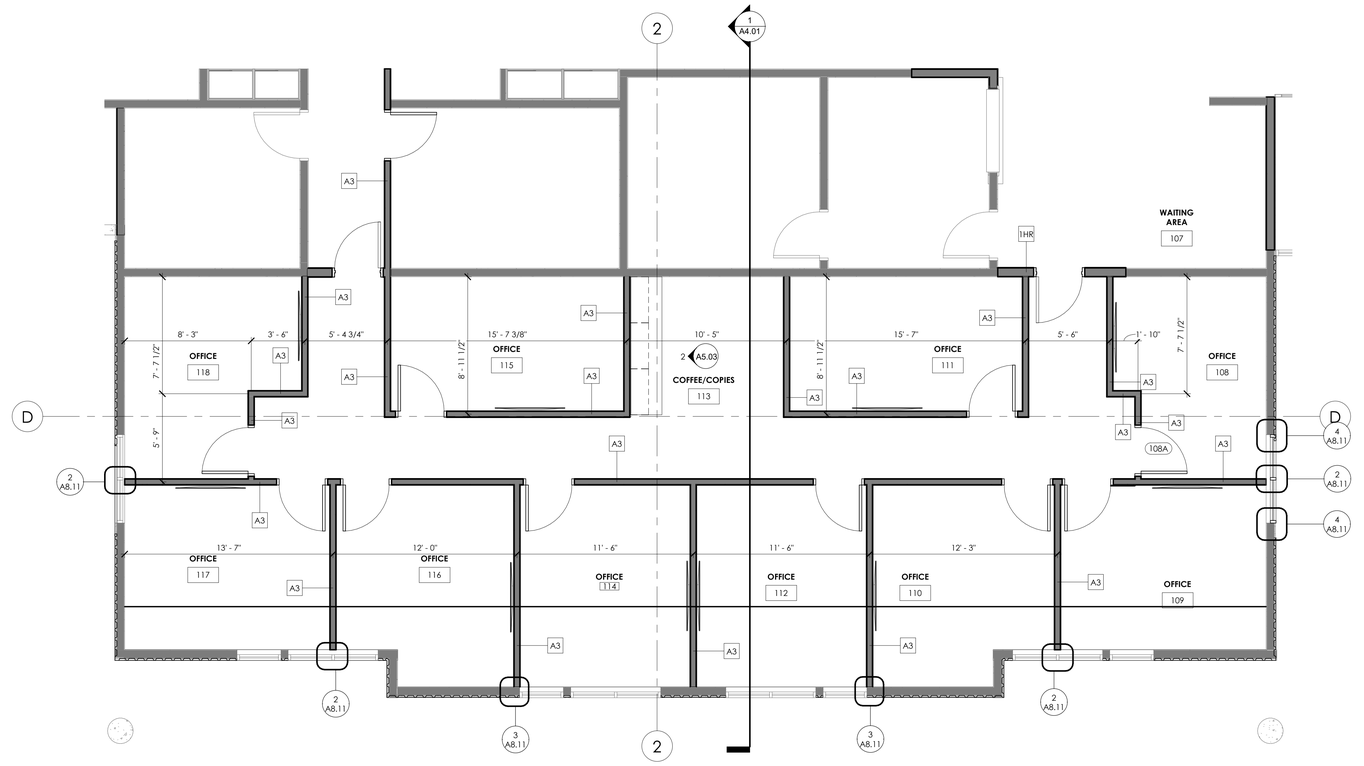
No.	Description	Date
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1	APR 01	6.11.2019
4	RFI #4	8.12.2019

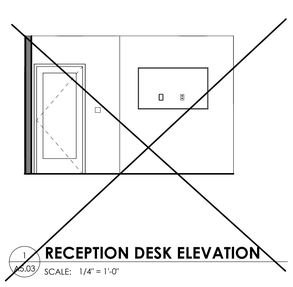
Project Number 1820
Date 8.13.2019

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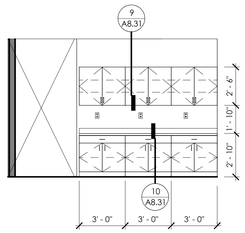
ENLARGED PLANS

A5.03





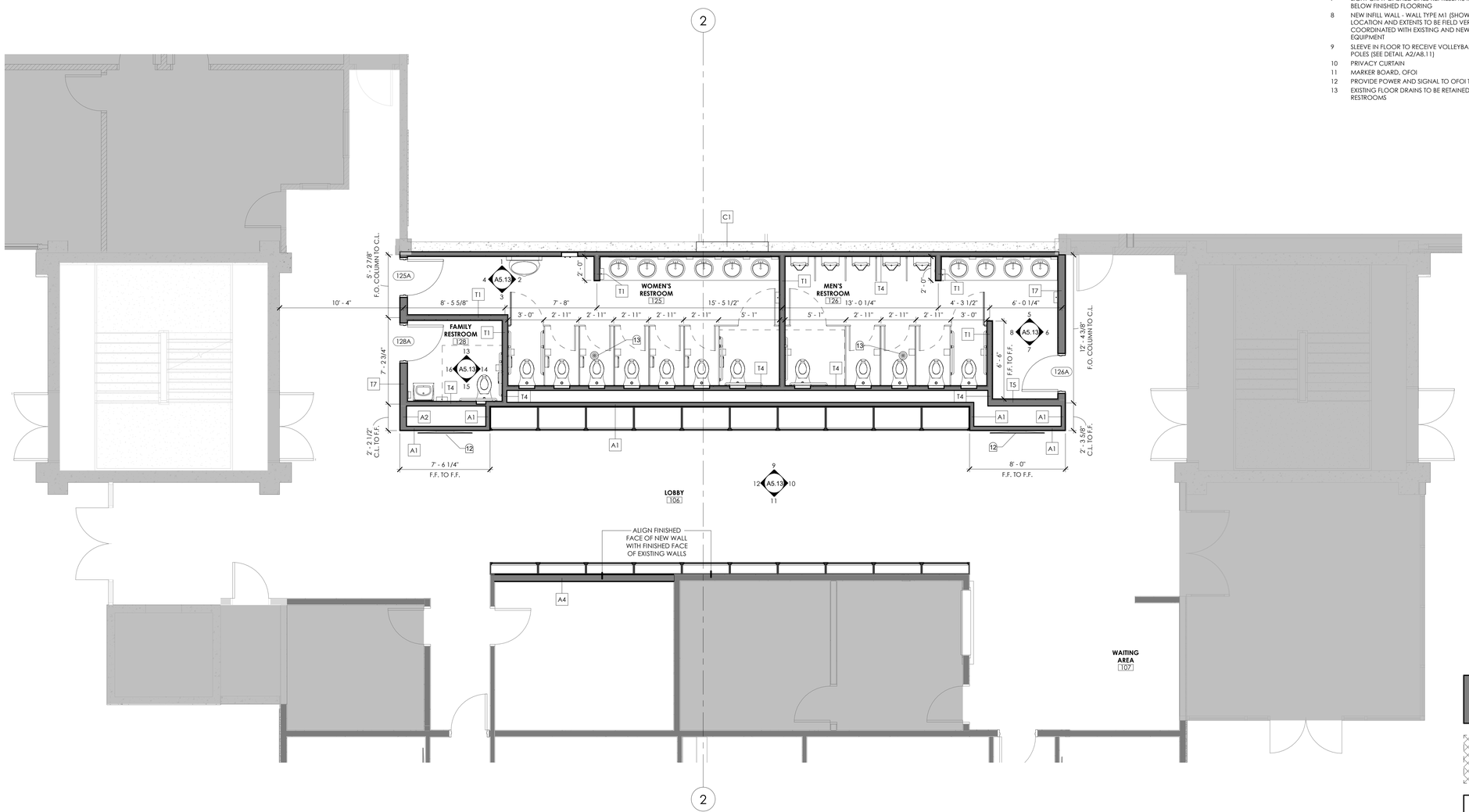
1 A5.03 **RECEPTION DESK ELEVATION**
SCALE: 1/4" = 1'-0"



2 A5.03 **COFFEE/COPIES CASEWORK ELEVATION**
SCALE: 1/4" = 1'-0"

3 A5.03 **ENLARGED COACHES OFFICES**
SCALE: 1/4" = 1'-0"

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1 A5.04 **ENLARGED LOBBY PLAN**
SCALE: 1/4" = 1'-0"

FLOOR PLAN KEYNOTES

1 (REMOVED)
2 EXISTING STEEL COLUMNS TO RECEIVE PADDING
3 NEW STEEL PLATFORM EXTENSION OF EXISTING PLATFORM FOR STORAGE
4 LIGHT GRAY DASHED LINES REPRESENT WHERE, AFTER REMOVING CMU WALLS, GROUT SHALL INFILL RECESSED PORTIONS OF SLAB FLUSH WITH EXISTING SLAB
5 CONCRETE SOFFIT WALL ABOVE SHOWN DASHED
6 GYM DIVIDER NET, PARTY RESPONSIBLE FOR INSTALLATION TBD
7 LIGHT GRAY DASHED LINES REPRESENTS INSIDE POOL EDGE BELOW FINISHED FLOORING
8 NEW INFILL WALL - WALL TYPE M1 (SHOWN HATCHED) - EXACT LOCATION AND EXTENTS TO BE FIELD VERIFIED AND COORDINATED WITH EXISTING AND NEW ELECTRICAL EQUIPMENT
9 SLEEVE IN FLOOR TO RECEIVE VOLLEYBALL/BADMINTON NET POLES (SEE DETAIL A2/A8.11)
10 PRIVACY CURTAIN
11 MARKER BOARD, OFOI
12 PROVIDE POWER AND SIGNAL TO OFOI TV
13 EXISTING FLOOR DRAINS TO BE RETAINED TO SERVE RENOVATED RESTROOMS

NIC

APR 01

AREA OF WORK

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1	APR 01	6.11.2019

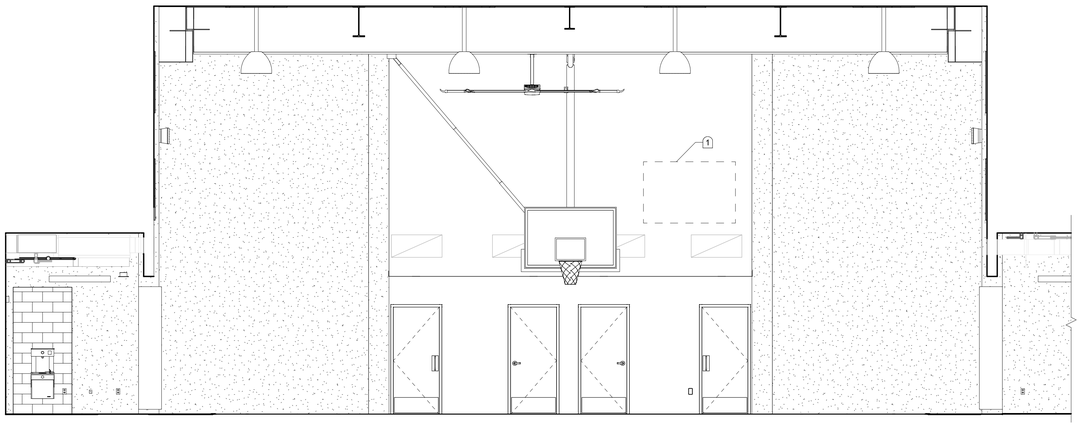
Project Number 1820
Date 8.13.2019

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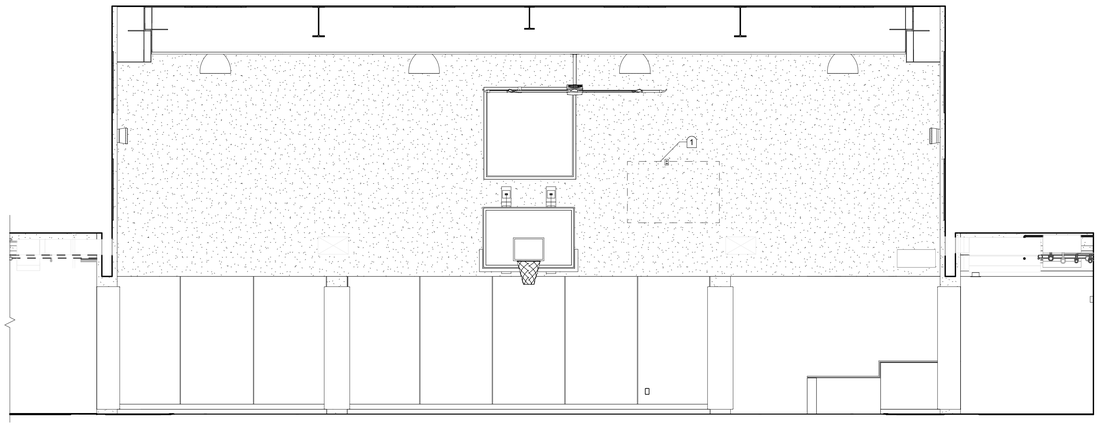
ENLARGE LOBBY PLANS (APR 01)

A5.04

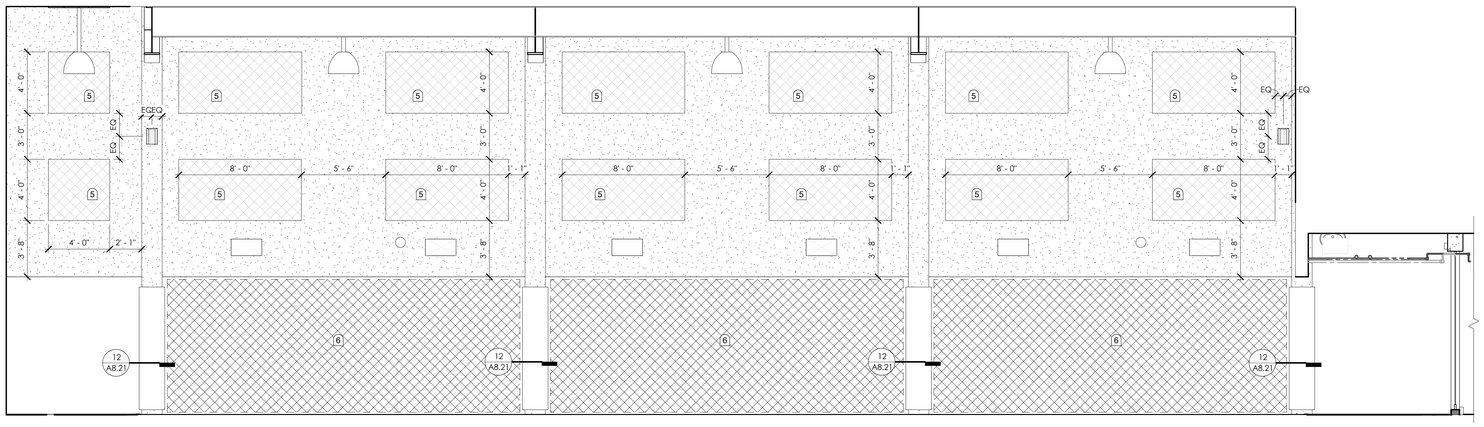
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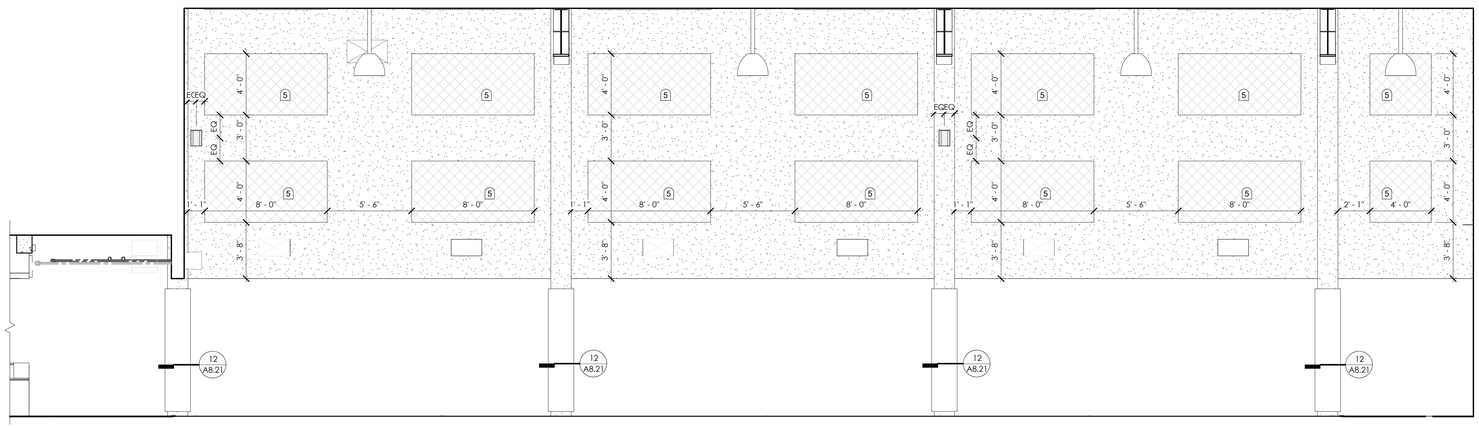
1 A5.11 **BASKETBALL COURT**
SCALE: 1/4" = 1'-0"



2 A5.11 **BASKETBALL COURT**
SCALE: 1/4" = 1'-0"



3 A5.11 **BASKETBALL COURT**
SCALE: 1/4" = 1'-0"



4 A5.11 **BASKETBALL COURT**
SCALE: 1/4" = 1'-0"

INTERIOR KEYNOTES

1 PROVIDE POWER AND DATA TO OFOI SCORE BOARD
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No.	Description	Date
1	ADDENDUM 01	5.20.2019

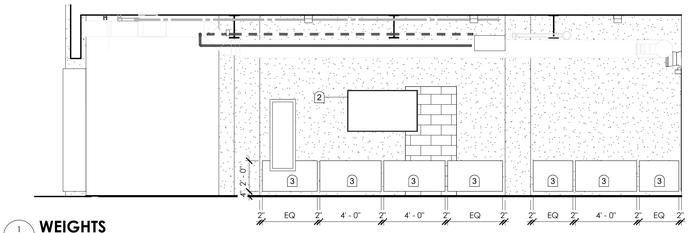
Project Number 1820
Date 8.13.2019

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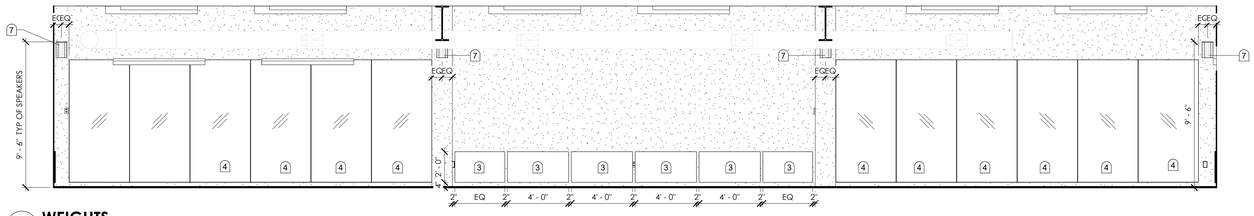
INTERIOR ELEVATIONS

A5.11

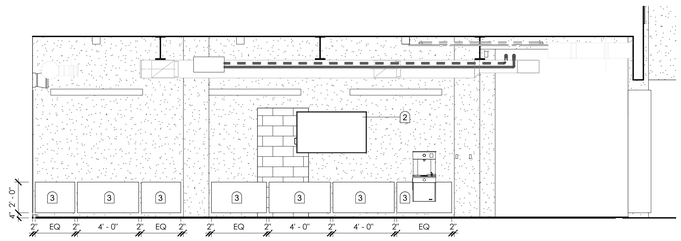
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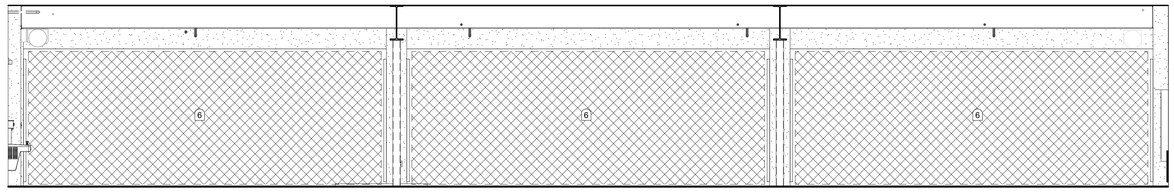
1 A5.12 **WEIGHTS**
SCALE: 1/4" = 1'-0"



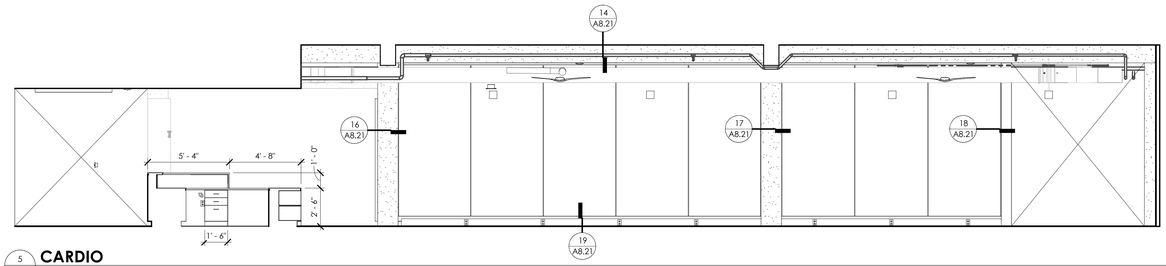
2 A5.12 **WEIGHTS**
SCALE: 1/4" = 1'-0"



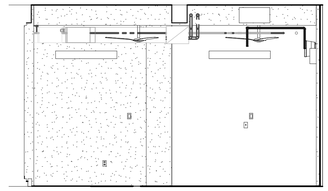
3 A5.12 **WEIGHTS**
SCALE: 1/4" = 1'-0"



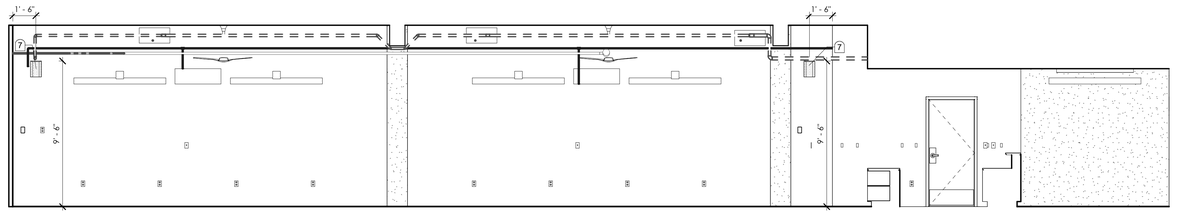
4 A5.12 **WEIGHTS**
SCALE: 1/4" = 1'-0"



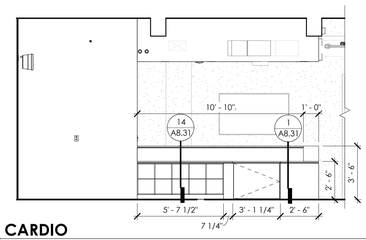
5 A5.12 **CARDIO**
SCALE: 1/4" = 1'-0"



6 A5.12 **CARDIO**
SCALE: 1/4" = 1'-0"



7 A5.12 **CARDIO**
SCALE: 1/4" = 1'-0"



8 A5.12 **CARDIO**
SCALE: 1/4" = 1'-0"

INTERIOR KEYNOTES

1 PROVIDE POWER AND DATA TO OFOI SCORE BOARD
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7 PROVIDE POWER AND SINGNAL TO OFOI SPEAKER

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No.	Description	Date
1	ADDENDUM 01	5.20.2019

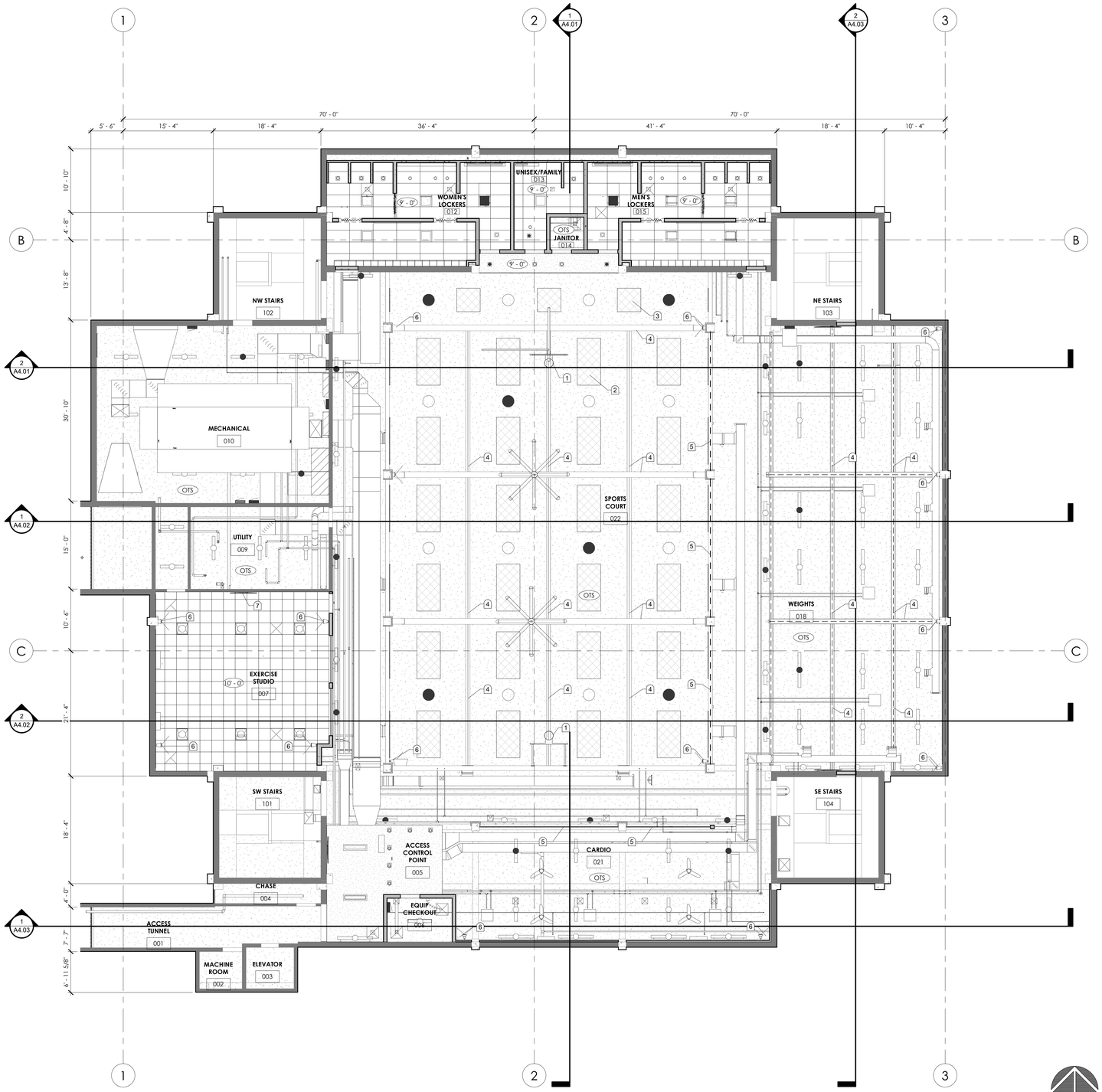
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INTERIOR ELEVATIONS

A5.12

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PROJECT NORTH

1 A6.01 **SRC RCP (N)**
SCALE: 1/8" = 1'-0"

KEYNOTES - RCP

Mark	Keynote Text
1	SIDE STOWING BASKETBALL HOOP
2	4'x8' ACOUSTIC ATENUATION PANELS, TYP.
3	4'x4' ACOUSTIC ATENUATION PANELS, TYP.
4	PAINT EXISTING STRUCTURE
5	
6	PROVIDE POWER AND SINGNAL TO OFOI SPEAKER
7	PROVIDE POWER AND SINGNAL TO OFOI TV

- 2X2 TROFFER LIGHT
- SURFACE MOUNTED LIGHT
- SUSPENDED DIRECT/INDIRECT LIGHT
- WALL MOUNTED LIGHT (SHORT FIXTURE)
- WALL MOUNTED LIGHT (LONG FIXTURE)
- HIGH BAY LUMINAIRE
- RECESSED DOWNLIGHT
- ACOUSTIC ATTENUATION PANEL
- 2'x4' ACT CEILING
- 2'x2' ACT CEILING

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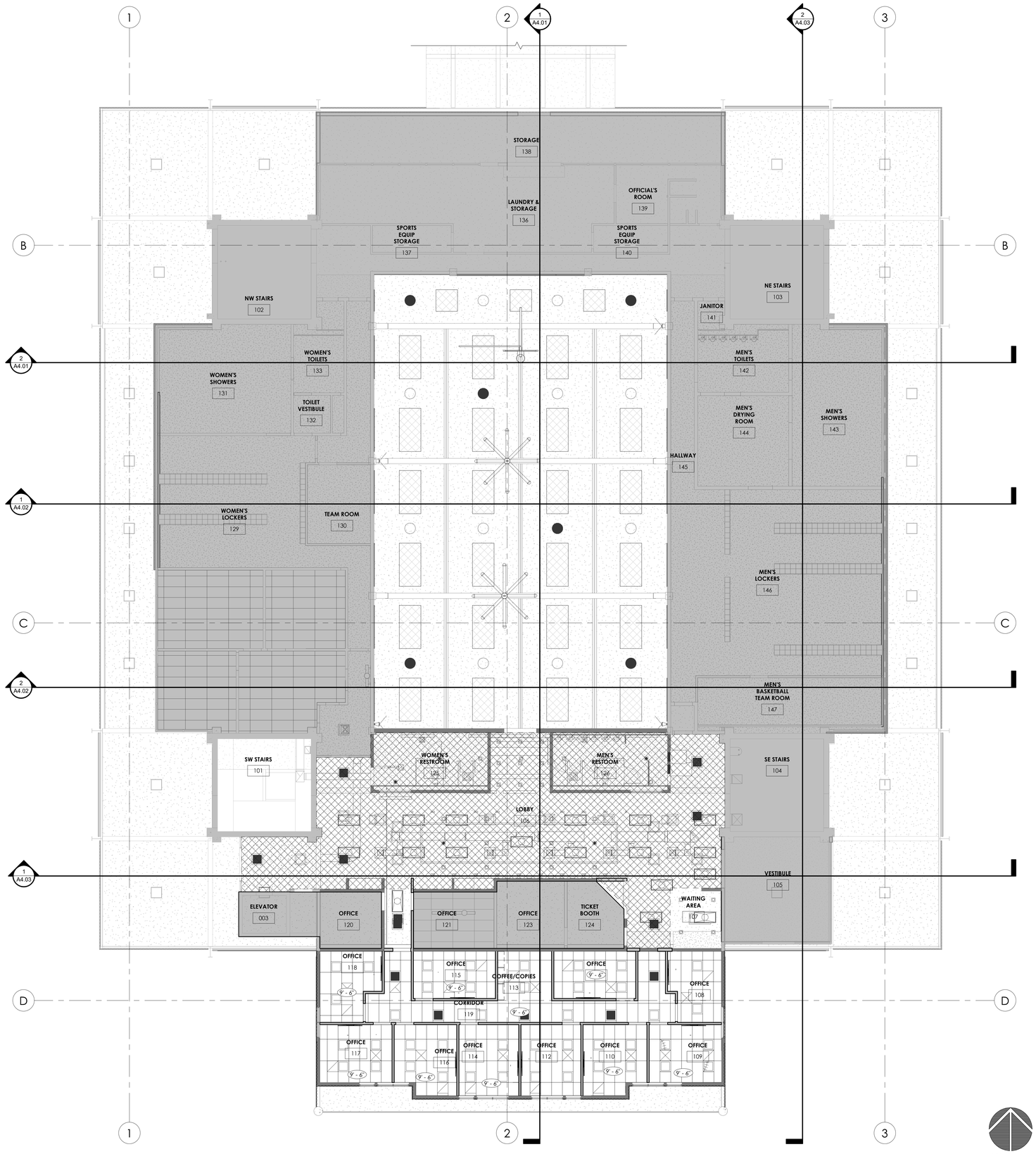
Project Number 1820
Date 8.13.2019

CONFORMANCE

SRC RCP

A6.01

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1 A4.02 **MAIN LEVEL RCP (N)**
SCALE: 1/8" = 1'-0"

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No.	Description	Date
3	RFI #3	7.31.2019

Project Number 1820
Date 8.13.2019

CONFORMANCE

MAIN LEVEL RCP

A6.02

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INTERIOR FINISH SCHEDULE

SECTION	ABBREVIATION	NAME	MANUFACTURER	STYLE / MODEL #	SIZE	COLOR	FINISH	NOTES
06 4100	ARCHITECTURAL WOOD CASEWORK							
	PL-1	PLASTIC LAMINATE	WILSONART	HPL		INDIGO D379-60	MATTE	CASEWORK_VERTICAL
	PL-2		WILSONART	HPL		PEWTER MESH 4678-38	FINE VELVET FINISH	CASEWORK HORIZONTAL
06 5213	FIBERGLASS REINFORCED PLASTIC							
	FRP-1	FIBERGLASS REINFORCED PLASTIC	CRANE COMPOSITES	VARITEX	4X8 SHEET	COTTON WHITE 1130	SANDSTONE TEXTURE	
09 3000	TILING							
	CT-1	CERAMIC WALL TILE	MOSA	GLOBAL	4X12; 1/4" THICKNESS	TBD	GLOSS	
	CT-2		MOSA	GLOBAL	4X12; 1/4" THICKNESS	TBD	GLOSS	
	CT-3		MOSA	GLOBAL	6X12; 1/4" THICKNESS	TBD	GLOSS	COVED BASE TILE
	CT-4	CERAMIC FLOOR TILE	DALTILE	AMBASSADOR	12X24; 3/8" THICKNESS	AM35 GLOBAL GREY		
	GR-1	GROUT	LATICRETE			78 STERLING SILVER		
09 5000	ACOUSTICAL CEILINGS							
	ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA SECOND LOOK II	ANGLED TEGULAR 9/16, 24X48X3/4	WHITE		
	ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG	CIRRUS	ANGLED TEGULAR 15/16, 24X24X3/4	WHITE		
09 6442	WOOD ATHLETIC FLOORING							
	WAF-1	WOOD ATHLETIC FLOORING	CONNOR SPORTS	ALLIANCE	25/32" x 2-1.4" NORTHERN HARD MAPLE			
09 6500	RESILIENT FLOORING							
	RB-1	RUBBER BASE	JOHNSONITE	BASEWORKS THERMOSET RUBBER	4"	20 CHARCOAL WG		
	RB-2		JOHNSONITE	BASEWORKS THERMOSET RUBBER	6"	20 CHARCOAL WG		
	RAF-1	RUBBER ATHLETIC FLOORING	DINOFLEX	SPORTMAT	37" X 37" INTERLOCK TILE, 8MM THICKNESS	METRO GREY 214		
	RAF-2		DINOFLEX	SPORTMAT	37" X 37" INTERLOCK TILE, 12MM THICKNESS	METRO GREY 214		
	~~RAF-3A~~		~~MONDO~~	~~ARMOUR~~	~~20" X 20" INTERLOCK TILE, 8MM THICKNESS~~	~~MELB BLUE~~		
	~~RAF-3B~~		~~MONDO~~	~~ARMOUR~~	~~20" X 20" INTERLOCK TILE, 8MM THICKNESS~~	~~MELT GOLD~~		
	RAF-4		ECORE	ELEVATE BOUNCE 2	SHEET, 7MM THICKNESS	WHEAT, ES203		
	TRF-1	TURF	KOSIAK SPORTS	COLLEGIATE SPORTS TURF	12' WIDE ROLL, 5MM PAD	BLUE, KS36FV8M		
09 6800	CARPET							
	CPT-1	CARPET TILE	SHAW	DIFFUSE ST185	9X36; 0.092THICKNESS	75505 MAGNETIC FIELDS		INSTALL_ASHLAR
	WOM-1	WALK OFF MAT	INTERFACE	STEP REPEAT SR799 13885025000	50CMX50CM	104937 ONYX		INSTALL, 1/4 TURN
	LIN-1	LINOLEUM SHEET	TBD	TBD	TBD	TBD		
	LIN-2	LINOLEUM SHEET	TBD	TBD	TBD	TBD		
09 8400	ACOUSTIC TREATMENT							
	AWP-1	ACOUSTICAL WALL PANELS	FABRICMATE	RECORE 6PCF	4x8 PANEL, 1" THICKNESS	FELT LINE, CAMIRA BLAZER LIGHT, CUDDLE LTH62		
09 9000	PAINTING & COATING							
	P-1	PAINT	SHERWIN WILLIAMS	(PER SPEC SECTION 09 9000)		SW 7757 HIGH REFLECTIVE WHITE		FIELD
	P-2		SHERWIN WILLIAMS	(PER SPEC SECTION 09 9000)		SW 7653 SILVERPOINTE		ACCENT
	~~P-3~~		~~SHERWIN WILLIAMS~~	~~(PER SPEC SECTION 09 9000)~~		~~SW 9620 RAYO DE SOL~~		~~ACCENT~~
	P-4		SHERWIN WILLIAMS	(PER SPEC SECTION 09 9000)		SW 9178 IN THE NAVY		ACCENT
	P-5		SHERWIN WILLIAMS	(PER SPEC SECTION 09 9000)		SW 7674 PEPPERCORN		ACCENT, HM DOORS AND FRAMES
	EFP-1	EPOXY FLOOR PAINT	SHERWIN WILLIAMS	(PER SPEC SECTION 09 9000)		SW 7074 SOFTWARE		
10 0000	SPECIALTIES							
	TP-1	TOILET PARTITIONS	BRADLEY	BRADMAR HDPE		BLACK S205		
	TP-2	TOILET PARTITIONS	BRADLEY	BRADMAR HDPE		GRAY S200		
	LOCKERS	HDPE LOCKERS	BRADLEY	LENOX Z LOCKER Z TIER	12"D, 15"W, 60" H	GRAY S200		
10 2600	WALL AND DOOR PROTECTION							
	CG-1	CORNER GUARD	CONSTRUCTION SPECIALTIES	CO-8 TYPE 304	2" WINGS	STAINLESS STEEL	DIRECTIONAL SATIN 4	
	WP-1	WALL PROTECTION	CONSTRUCTION SPECIALTIES	CS ACROVYN	0.40", 4'X 8'	265 FOG	IRISH LINEN	
11 6623	GYMNASIUM PROTECTION ACCESSORIES							
	GP-1	WALL PADS	DRAPER	ECOVISION WALL PAD		GREY		
11 6653	GYMNASIUM DIVIDERS							
	GD-1	GYM DIVIDER CURTAIN	DRAPER	ROLL-UP		GREY		
					RAF-4			

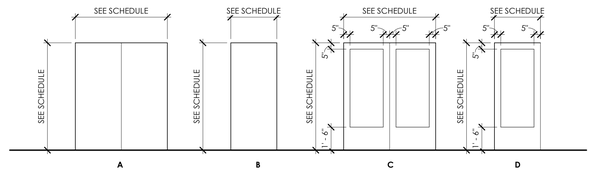
ROOM FINISH SCHEDULE

NUMBER	NAME	CEILING MATERIAL	CEILING FINISH	WALL MATERIAL	WALL SYSTEM	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	FLOOR FINISH	BASE FINISH	COMMENTS
SRC												
001	ACCESS TUNNEL	GYP	P-1	GWB	PS-7	P-1	P-1	P-1	P-1	SC-1	RB-1	
002	MACHINE ROOM	GYP	P-1		PS-7	-	-	-	-	-	-	
003	ELEVATOR	-	-	CONC	-	-	-	-	-	-	-	
004	CHASE	OTS	P-1		PS-7	-	-	-	-	-	-	
005	ACCESS CONTROL POINT	GYP	P-1	GWB	PS-7	P-1	P-1	P-1	P-1	WOM-1	RB-1	
006	EQUIP CHECKOUT	OTS	P-1	GWB	PS-7	P-1	P-1	P-1	P-1	SC-1	RB-1	
007	EXERCISE STUDIO	ACT-2	-	GWB	PS-7	P-2	P-4	P-2	P-2	RAF-4	RB-1	
008	HALLWAY	OTS	-	GWB,CONC,CMU	PS-7	P-2	P-2	P-2	P-2	RAF-1	RB-1	
009	UTILITY	OTS	-	GWB, CMU	PS-7	P-1	P-1	P-1	P-1	SC-1	-	
010	MECHANICAL	OTS	-	CONC, CMU	PS-7	P-1	P-1	P-1	P-1	SC-1	-	
011	HALLWAY	AWP-1	P-1	GWB,CONC	PS-7	P-1	P-1	P-1	P-1	RAF-1	RB-1	
012	WOMEN'S LOCKERS	ACT-1	-	GWB, WP-1	PS-8	WP-1, P-2	WP-1, P-2	WP-1, P-2	WP-1,P-2	EFP-1	RB-1	
013	UNISEX/FAMILY	ACT-1	-	GWB	PS-8	WP-1, P-2	WP-1, P-2	WP-1, P-2	WP-1,P-2	EFP-1	RB-1	
014	JANITOR	GYP	P-1	GWB, FRP-1	PS-8	P-1, FRP-1	P-1, FRP-1	P-1	P-1	SC-1	RB-2	
015	MEN'S LOCKERS	ACT-1	-	GWB	PS-8	WP-1, P-2	WP-1, P-2	WP-1, P-2	WP-1,P-2	EFP-1	RB-1	
018	WEIGHTS	OTS	P-1	CONC	PS-7	P-2	P-2, P-4	P-2	P-2	RAF-2,TRF-1	-	
019	HALLWAY	OTS	-	GWB	PS-7	P-2	P-2	P-2	P-2	LIN-1	RB-1	
020	HALLWAY	OTS	-	-	PS-7	P-2				LIN-1	RB-1	
021	CARDIO	OTS	-	GWB	PS-7	P-2	P-2	P-2	P-2	RAF-1	RB-1	
022	SPORTS COURT	AWP-1	P-1	GWB	PS-7	P-2, AWP-1	P-2, AWP-1	P-2, AWP-1	P-2, AWP-1	WAF-1	INTEGRAL	
MAIN LEVEL												
106	LOBBY	GYP, ACT-2	P-1	GWB	PS-7	TBD	TBD	TBD	TBD	LIN-1, LIN-2	RB-2	APR 01
107	WAITING AREA	GYP	P-1	GWB	PS-7	TBD	TBD	TBD	TBD	LIN-1	RB-2	
108	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-5	P-2	P-2	CPT-1	RB-1	
109	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
110	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
111	OFFICE	ACT-2	-	GWB	PS-7	P-4	P-2	P-2	P-2	CPT-1	RB-1	
112	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
113	COFFEE/COPIES	ACT-2	-	GWB	PS-7	P-5	P-2	-	P-2	CPT-1	RB-1	
114	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
115	OFFICE	ACT-2	-	GWB	PS-7	P-4	P-2	P-2	P-2	CPT-1	RB-1	
116	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
117	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-2	P-4	P-2	CPT-1	RB-1	
118	OFFICE	ACT-2	-	GWB	PS-7	P-1	P-1	P-1	P-4	CPT-1	RB-1	
119	CORRIDOR	ACT-2	-	GWB	PS-7	P-2	P-2	P-2	P-2	CPT-1	RB-1	
120	OFFICE	ACT-2	-	GWB	PS-7	NIC	NIC	NIC	NIC	CPT-1	RB-1	
121	OFFICE	ACT-2	-	GWB	PS-7	P-2	P-4	P-2	P-2	CPT-1	RB-1	
123	OFFICE	ACT-2	-	GWB	PS-7	NIC	NIC	NIC	NIC	CPT-1	RB-1	
124	TICKET BOOTH	ACT-2	-	GWB	PS-7	P-2	P-2	P-2	P-4	CPT-1	RB-1	
125	WOMEN'S RESTROOM	GYP	P-1	GWB	PS-8	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-4	CT-3	APR 01
126	MEN'S RESTOOM	GYP	P-1	GWB	PS-8	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-4	CT-3	APR 01
128	FAMILY RESTROOM	GYP	P-1	GWB	PS-8	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-1, CT-2, P-1	CT-4	CT-3	APR 01

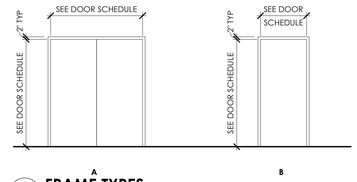
DOOR SCHEDULE

MARK	WIDTH	HEIGHT	PANEL TYPE	PANEL MATERIAL	PANEL FINISH	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	Fire Rating	COMMENTS	Phase Created
SRC													
001A	6' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
002A	3' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
004A	3' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
006A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
007A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
007B	2' - 10"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
009A	3' - 0"	8' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
012A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
013A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
014A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
015A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
101A	5' - 8"	8' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
102A	6' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
103A	6' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
104A	5' - 8"	8' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
106E	3' - 0"	2' - 4 1/2"											New Construction
MAIN LEVEL													
101B	5' - 8"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT			ADD MAG HOLD	Existing
104B	6' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT			ADD MAG HOLD	Existing
106A	6' - 0"	7' - 0"	(E)	(E)	(E)		(E)	(E)	(E)				Existing
106B	3' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
108A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
109A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
110A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
111A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
112A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
114A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
115A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
116A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
117A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
118A	3' - 0"	7' - 0"	D	WD	FF	T	B	HM	PT				New Construction
119A	3' - 0"	7' - 0"	B	WD	FF		B	HM	PT		1 HR	ADD MAG HOLD	New Construction
119B	3' - 0"	7' - 0"	B	WD	FF		B	HM	PT		1 HR	ADD MAG HOLD	New Construction
120A	3' - 0"	7' - 0"	(E)	(E)	PT								Existing
121A	3' - 0"	7' - 0"	B	HM	PT		B	HM	PT				New Construction
124A	3' - 0"	7' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing
124B	5' - 6"	6' - 10 23/32"	(E)	(E)	(E)		(E)	(E)	(E)			SALVAGED/REUSED	Existing
125A	3' - 0"	7' - 0"	B	WD	FF		B	HM	PT				APR 01
126A	3' - 0"	7' - 0"	B	WD	FF		B	HM	PT				APR 01
128A	3' - 0"	7' - 0"	B	WD	FF		B	HM	PT				APR 01
146A	3' - 0"	8' - 0"	(E)	(E)	PT		(E)	(E)	PT				Existing

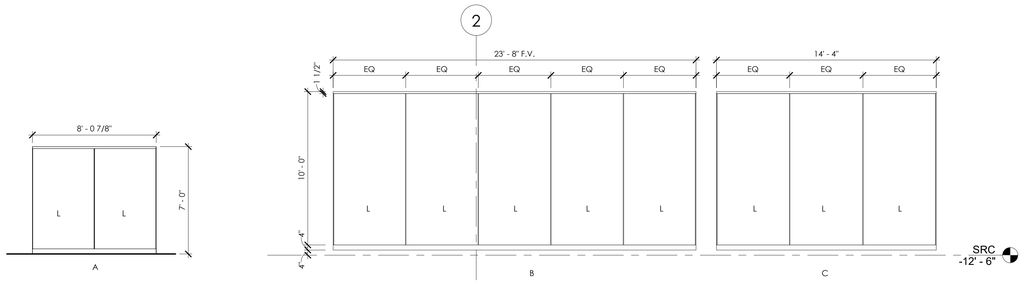
GENERAL NOTES	ABBREVIATIONS	REMARKS
1. SEE A8.01 FOR DOOR FRAME AND TYPES	AL - ALUMINUM FF - FACTORY FINISH PT - PAINT WD - WOOD HM - HOLLOW METAL L - LAMINATED GLAZING I - INSULATED GLAZING T - TEMPERED GLAZING F - FIRE RATED GLAZING	1. 2.

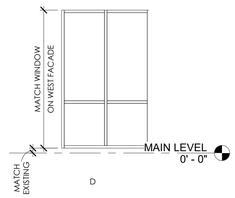


DOOR TYPES
SCALE: 1/4" = 1'-0"



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





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

BBT ARCHITECTS
1140 sw Simpson Ave. - Suite 200
Bend, Oregon 97702
t 541.382.5535 | f 541.389.8033

REGISTERED ARCHITECT
5499
RENEE P. ALEXANDER
BEND, OREGON
STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
1	APR 01	6.11.2019

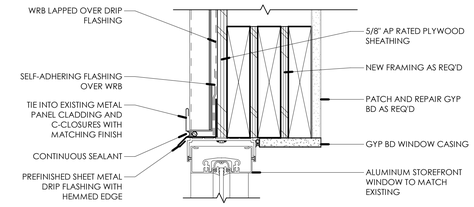
Project Number 1820
Date 8.13.2019

CONFORMANCE

SCHEDULES

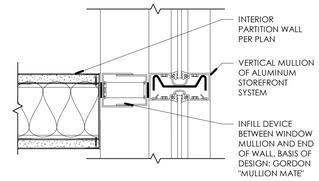
A8.01

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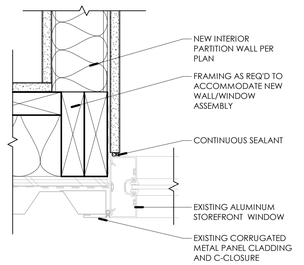
1 / A8.11 **ALUMINUM WINDOW HEAD**

SCALE: 3" = 1'-0"



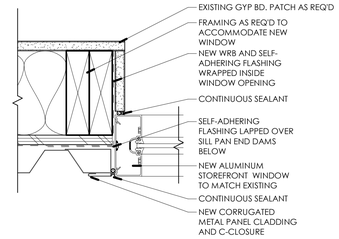
2 / A8.11 **MULLION TO WALL CLOSURE**

SCALE: 3" = 1'-0"



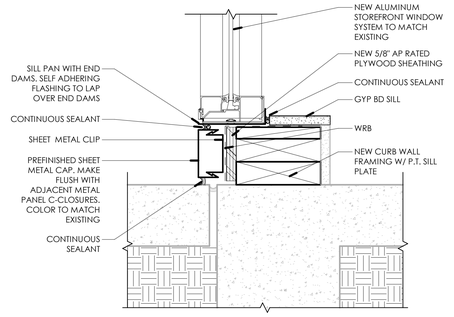
3 / A8.11 **ALUMINUM WINDOW JAMB @ INT. PARTITION**

SCALE: 3" = 1'-0"



4 / A8.11 **ALUMINUM WINDOW JAMB (TYP)**

SCALE: 3" = 1'-0"



5 / A8.11 **ALUMINUM WINDOW SILL**

SCALE: 3" = 1'-0"

BBT ARCHITECTS
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REGISTERED ARCHITECT
5499
RENEE P. ALEXANDER
BEND, OREGON
STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
4	RFI #4	8.12.2019

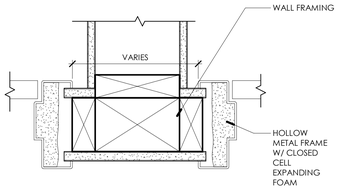
Project Number 1820
Date 8.13.2019

CONFORMANCE

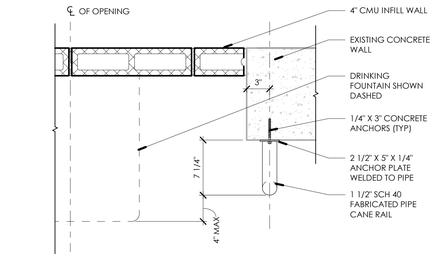
EXTERIOR DETAILS

A8.11

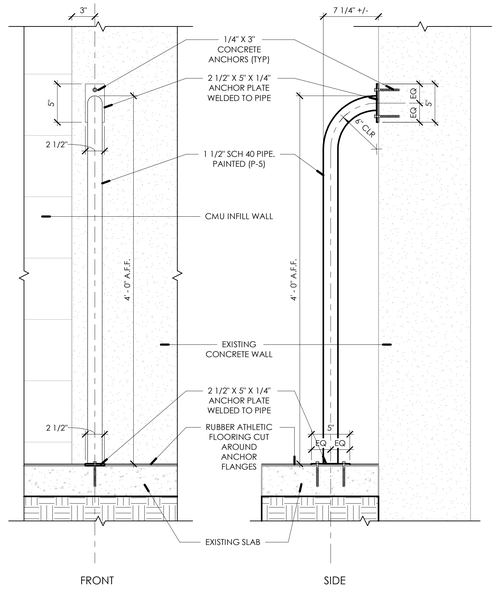
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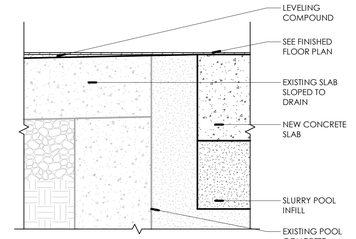
1 A8.21 HM DOOR JAMB
SCALE: 3" = 1'-0"



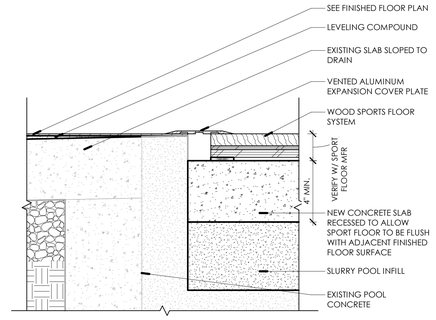
2 A8.21 CMU INFILL @ CONCRETE WALL
SCALE: 1 1/2" = 1'-0"



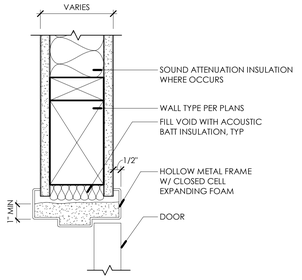
7 A8.21 DRINKING FOUNTAIN CANE RAIL ELEVATIONS
SCALE: 1 1/2" = 1'-0"



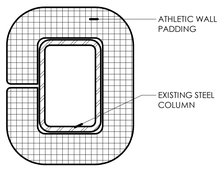
3 A8.21 FLOORING @ S. POOL EDGE
SCALE: 3" = 1'-0"



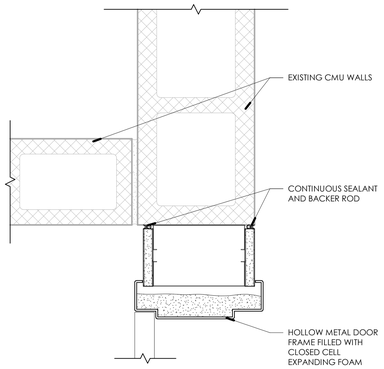
4 A8.21 FLOORING @ E/W POOL EDGE
SCALE: 3" = 1'-0"



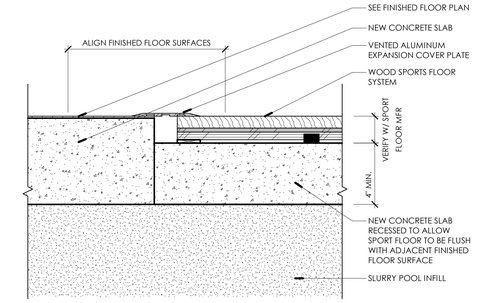
5 A8.21 HM DOOR HEAD
SCALE: 3" = 1'-0"



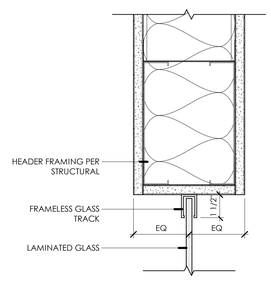
6 A8.21 COLUMN PADDING @ STEEL COLUMNS
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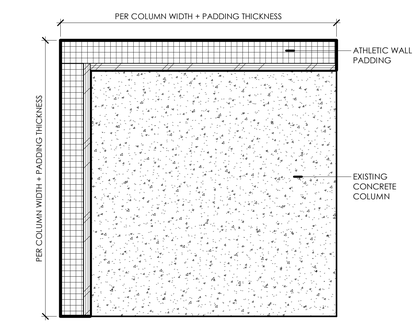
8 A8.21 DOOR JAMB @ EXERCISE STUDIO
SCALE: 3" = 1'-0"



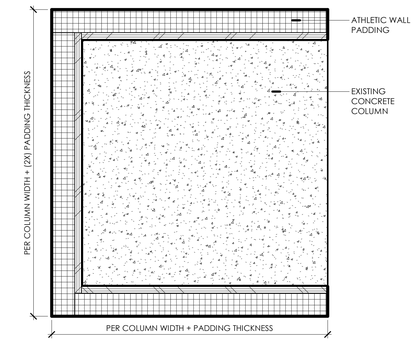
9 A8.21 FLOORING TRANSITION @ S. COURT
SCALE: 3" = 1'-0"



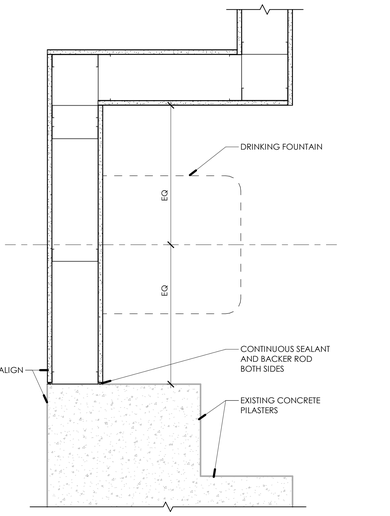
10 A8.21 GLAZING HEAD @ EXERCISE STUDIO
SCALE: 3" = 1'-0"



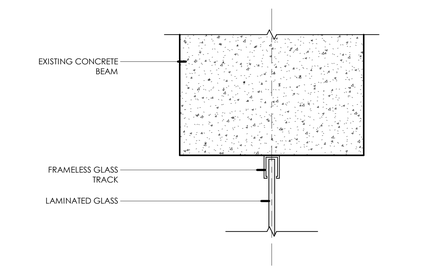
11 A8.21 COLUMN PADDING (2-SIDED)
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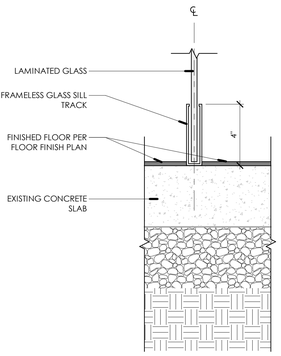
12 A8.21 COLUMN PADDING (3-SIDED)
SCALE: 3" = 1'-0"



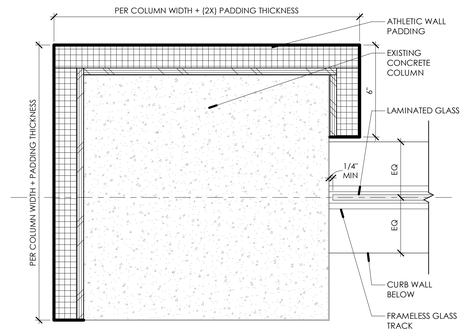
13 A8.21 CORNER DETAIL @ EXERCISE STUDIO
SCALE: 1 1/2" = 1'-0"



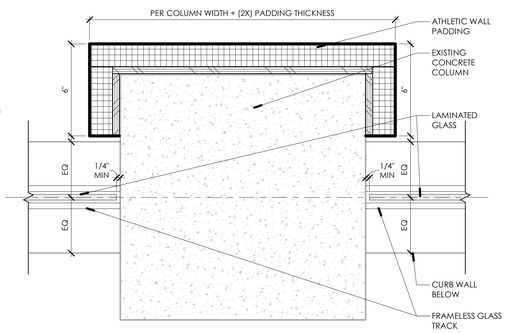
14 A8.21 GLAZING HEAD @ CARDIO
SCALE: 3" = 1'-0"



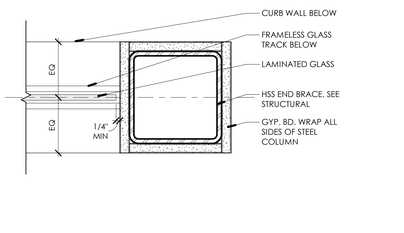
15 A8.21 GLAZING SILL @ EXERCISE STUDIO
SCALE: 3" = 1'-0"



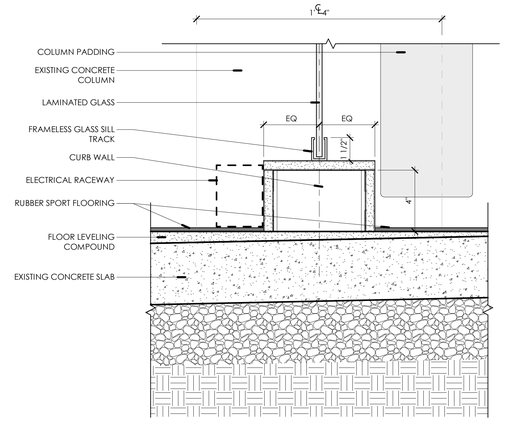
16 A8.21 COLUMNS @ CARDIO GLAZING 1
SCALE: 3" = 1'-0"



17 A8.21 COLUMNS @ CARDIO GLAZING 2
SCALE: 3" = 1'-0"



18 A8.21 COLUMNS @ CARDIO GLAZING 3
SCALE: 3" = 1'-0"



19 A8.21 GLAZING SILL @ CARDIO
SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
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RENEE P. ALEXANDER
BEND, OREGON
STATE OF OREGON

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
1	ADDENDUM 01	5.20.2019

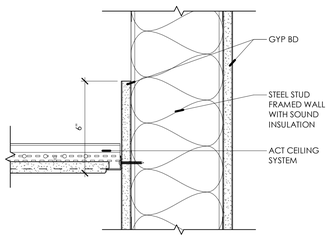
Project Number 1820
Date 8.13.2019

CONFORMANCE

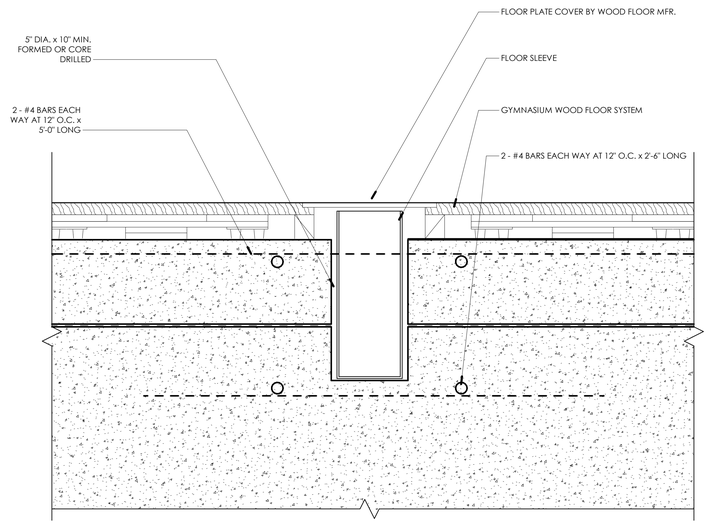
INTERIOR DETAILS

A8.21

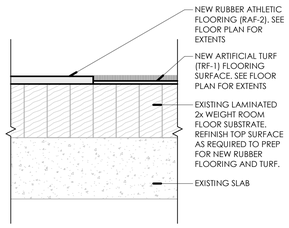
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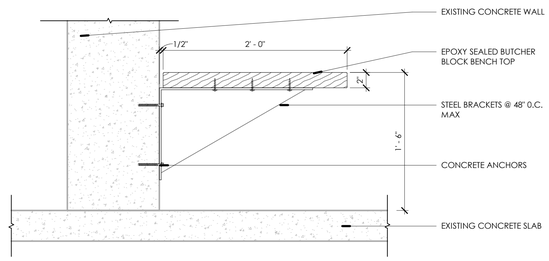
1 A8.22 **ACT TO FRAMED WALL DETAIL**
SCALE: 3" = 1'-0"



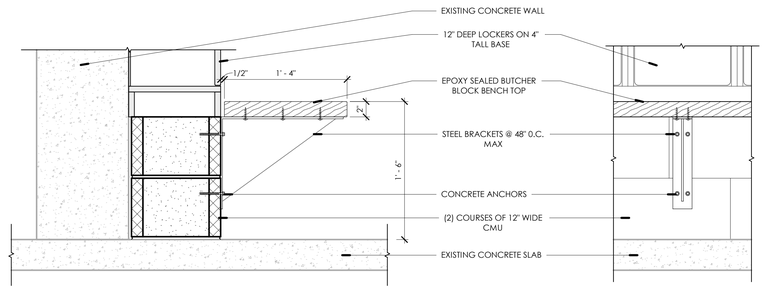
2 A8.22 **NET POST SOCKET**
SCALE: 3" = 1'-0"



3 A8.22 **WEIGHT ROOM FLOORING TRANSITION**
SCALE: 3" = 1'-0"



4 A8.22 **ADA LOCKER BENCH DETAIL**
SCALE: 1 1/2" = 1'-0"



5 A8.22 **LOCKER BENCH DETAIL**
SCALE: 1 1/2" = 1'-0"

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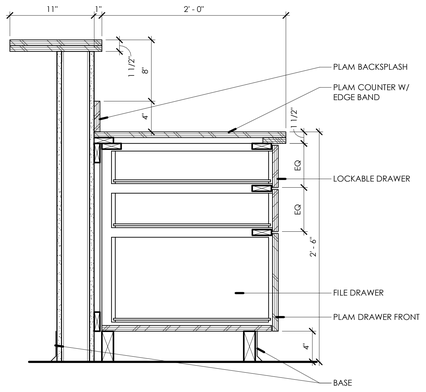
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Date 8.13.2019

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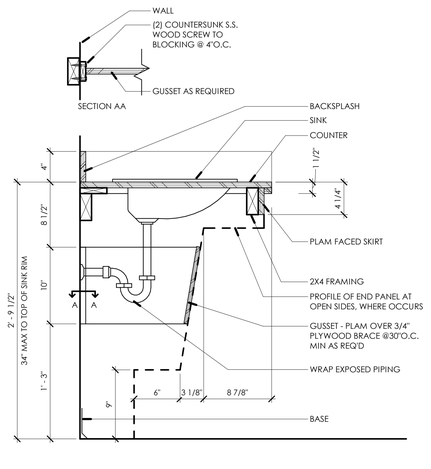
INTERIOR DETAILS

A8.22

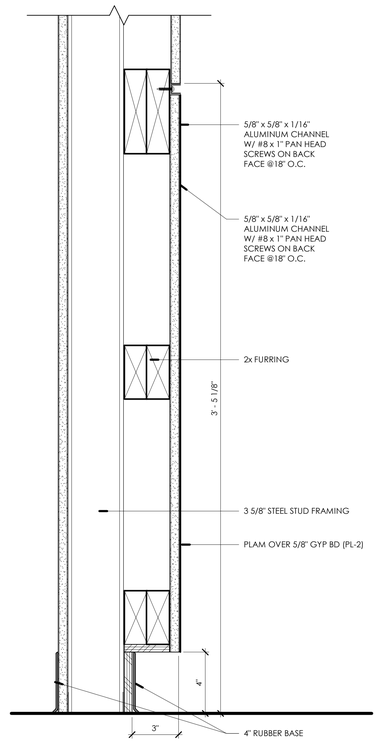
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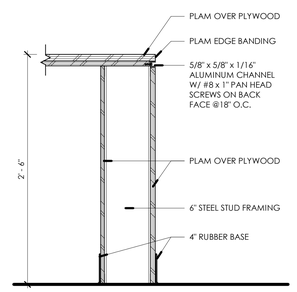
2 A8.31 **3 DWR FILE CABINET W/ TRANSACTION COUNTER**
SCALE: 1 1/2" = 1'-0"



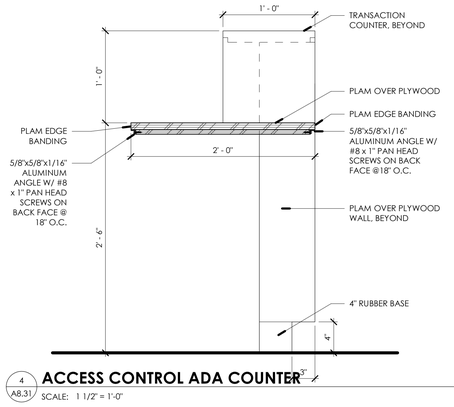
3 A8.31 **FRONT APPROACH SINK COUNTER**
SCALE: 1 1/2" = 1'-0"



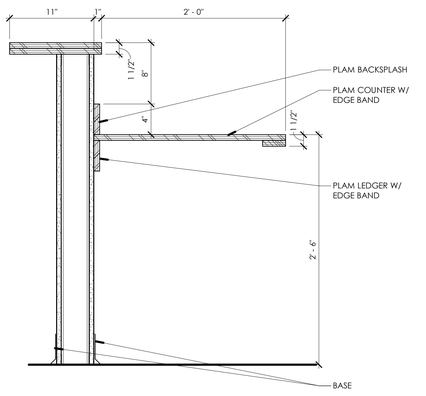
11 A8.31 **REVEALS @ EQUIPMENT CHECKOUT WALL**
SCALE: 3" = 1'-0"



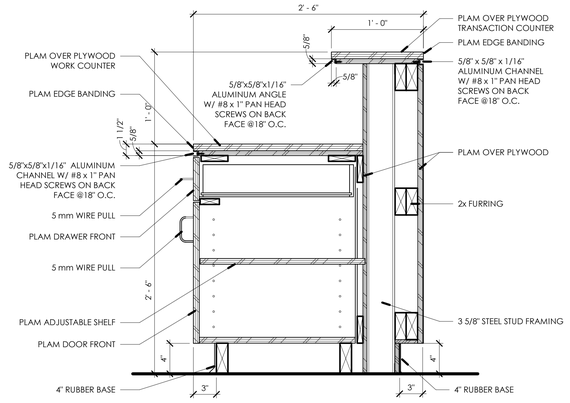
1 A8.31 **END WALL @ ADA COUNTER**
SCALE: 1 1/2" = 1'-0"



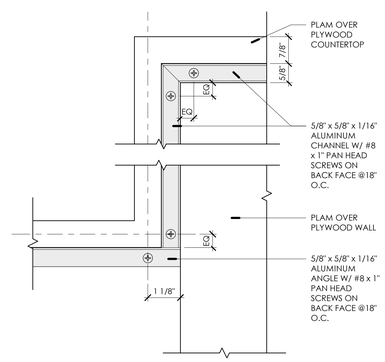
4 A8.31 **ACCESS CONTROL ADA COUNTER**
SCALE: 1 1/2" = 1'-0"



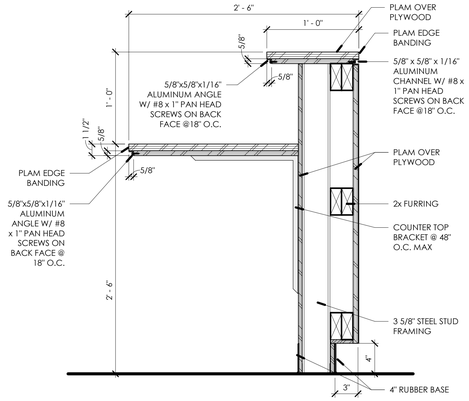
5 A8.31 **RECEPTION DESK W/ TRANSACTION COUNTER**
SCALE: 1 1/2" = 1'-0"



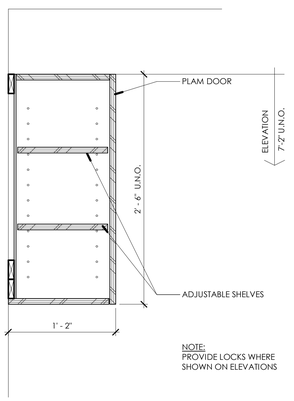
6 A8.31 **CASEWORK - ACCESS CONTROL DESK @ 1 DR + 1 DWR**
SCALE: 1 1/2" = 1'-0"



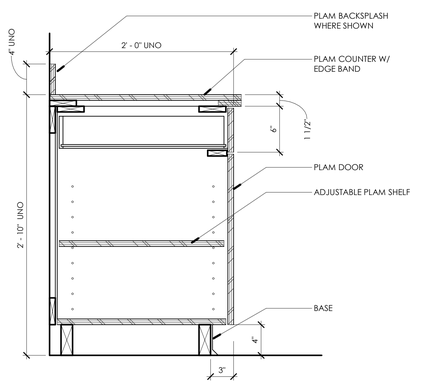
7 A8.31 **ADA COUNTER TRANSITION**
SCALE: 6" = 1'-0"



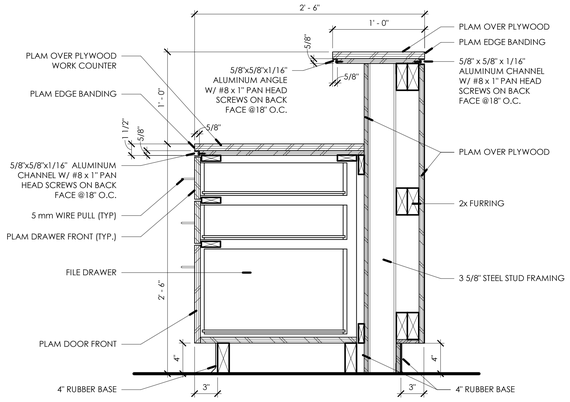
8 A8.31 **CASEWORK - ACCESS CONTROL DESK**
SCALE: 1 1/2" = 1'-0"



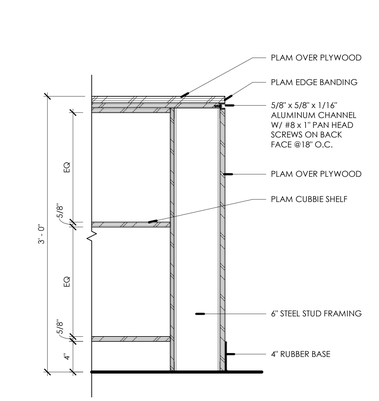
9 A8.31 **UPPER, TYP**
SCALE: 1 1/2" = 1'-0"



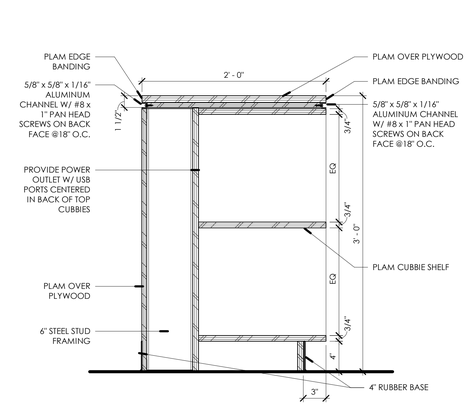
10 A8.31 **CASEWORK - BASE 1 DRAWER**
SCALE: 1 1/2" = 1'-0"



12 A8.31 **CASEWORK - ACCESS CONTROL DESK @ FILE DRAWER**
SCALE: 1 1/2" = 1'-0"



13 A8.31 **END WALL @ CARDIO CUBBIES**
SCALE: 1 1/2" = 1'-0"



14 A8.31 **COUNTER @ CARDIO CUBBIES**
SCALE: 1 1/2" = 1'-0"

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OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
1	ADDENDUM 01	5.20.2019

Project Number 1820
Date 8.13.2019

CONFORMANCE

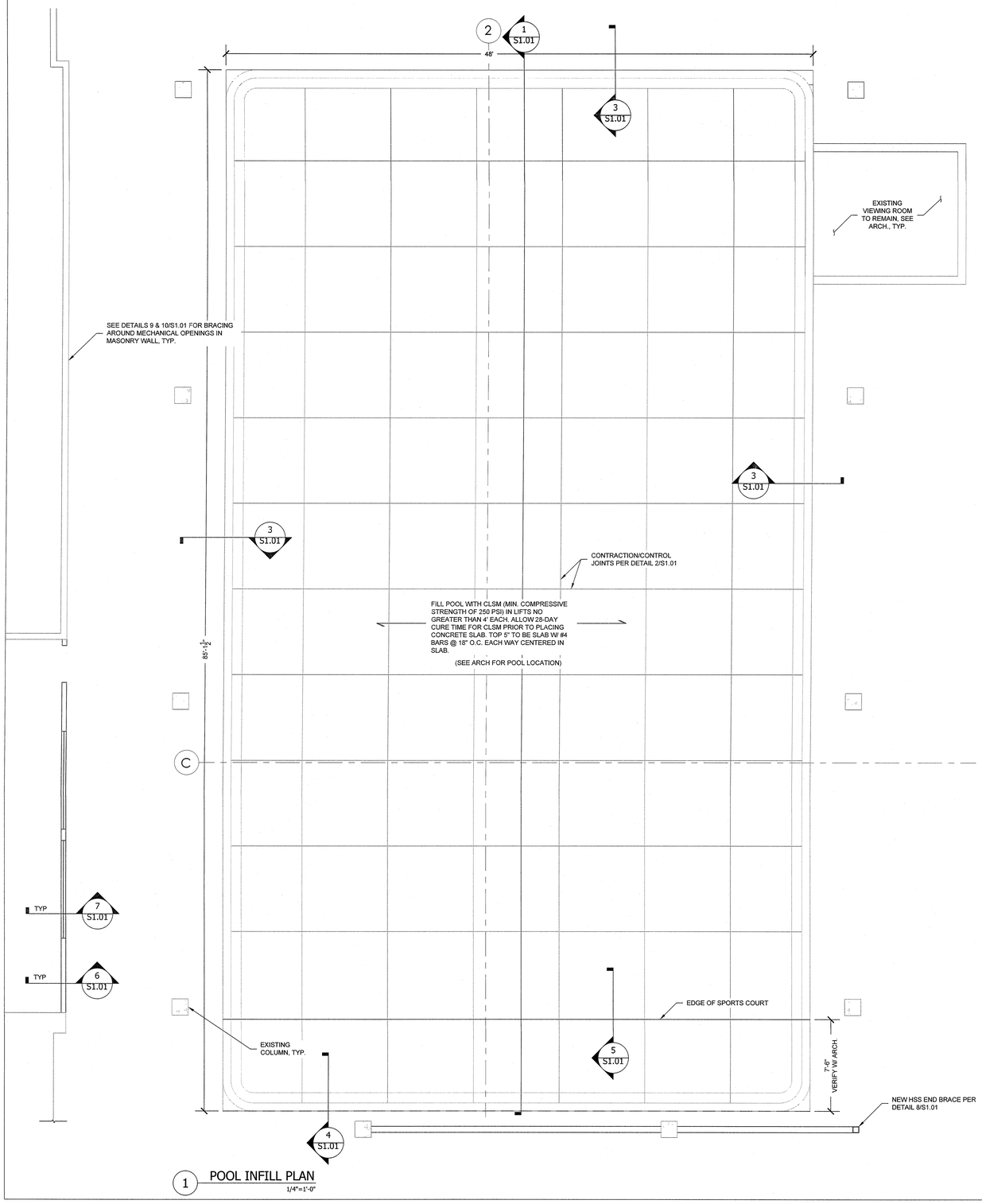
CASEWORK DETAILS

A8.31

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NOTES:

2. ALL DIMENSIONS ARE APPROXIMATE AND BASED ON AS-BUILT DRAWINGS.
3. APPROXIMATE VOLUME OF CLSM: 830 CY
4. APPROXIMATE VOLUME OF CONCRETE: 60 CY



1 POOL INFILL PLAN
1/4"=1'-0"

STRUCTURAL GENERAL NOTES - APPLICABLE TO ALL CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS

A. DESIGN SCOPE
1. Structural Design shown on drawings S1.00 to S1.01 by Adkins Consulting Engineering, LLP, ACE, includes the following items.
   a. Foundation & framing.
2. Structural design shown on drawings S1.00 to S1.01 does not include:
   a. Architectural items such as but not limited to; windows, doors, moisture barriers, water proofing, mechanical units, plumbing, or electrical items.
3. Typical structural details provided for this project illustrate "nominal" conditions. They are not necessarily drawn to scale. The intent is to show important construction information such as member size, number and size of fasteners ect,. The contractor is solely responsible for verifying specific dimensions/angles and other conditions that may exist.

B. GENERAL REQUIREMENTS
1. All work shall conform to the requirements of the 2014 Oregon Structural Specialty Code and any applicable local ordinances except where other notes are more restrictive.
2. Drawings are not to be scaled. Written dimensions shall govern construction. The contractor shall verify dimensions with the architectural drawings and the the site conditions prior to construction and any discrepancies shall be brought to the attention of the architect and the engineer so that clarification can be made. All dimensions related to existing conditions shall be verified by the contractor.
3. The contractor shall notify the engineer in writing of any discrepancies on the drawings requiring clarification or revisions before commencing with work.
4. At all times the contractor shall be solely responsible for conditions at the jobsite. Neither the owner nor Architect/Engineer will enforce safety measures/regulations. The contractor shall design, construct, and maintain all safety devices and programs. Including safety of persons and property, design, adequacy, and safety of temporary shoring, bracing, formwork, scaffolding, erection sequence and methods etc.
5. The engineer's structural observation and site visits are not intended to include review of the above items.
6. The contractor shall furnish all labor, materials, and equipment necessary to complete the work shown or inferred by these drawings.
7. Where construction details are not shown or noted for any part of the work, such details shall be the same as for similar work shown on the drawings.
8. In case of conflict, notes and details on the drawings take precedence over the general notes and typical details.
9. The contractor shall provide manufacturer's product evaluation reports (ICC - ES Reports) and a list of all proposed substitutions to the Engineer for review and written approval before fabrication. Such review shall be on a time and materials basis with no guarantee approval will be granted.
10. All existing construction is shown schematic only. The contractor is responsible to verify actual conditions and allow for them in his bid.
11. All communication shall be in writing. No verbal communications, decisions, instructions or approvals shall be valid.

C. SUBMITTALS
1. Shop drawings
   a) Shop drawings shall be submitted to the architect/engineer for review prior to fabrication and construction.
   b) Prior to submittal the general contractor shall review all submittals for conformance with the construction documents and shall stamp submittals as being "Reviewed for Conformance".
   c) Any detail on the shop drawing that deviates from the construction documents shall be clouded.
   d) Shop drawings shall be submitted to the Architect/Engineer regarding all structural items including:
      -Concrete reinforcing steel.
2. Concrete and CLSM mix designs.
3. Concrete reinforcing steel mill test reports.
4. Submit seismic anchorage calculations stamped by a licensed professional engineer for all mechanical, electrical, storage racks 8 feet or taller, and architectural components as required by the code.

D. DESIGN CODE & CRITERIA
1. All design, material, and construction for this project shall conform to the 2014 Oregon Structural Specialty Code (OSSC) based on the 2012 International Building Code (IBC).
2. The 2012 International Building Code design criteria.
   a. Floor Live Load = 40 psf.
   b. Floor Dead Load = 15 psf.
   c. Seismic Importance Factor, Ie = 1.0
   d. S_S = 1.19 (Max. 97603)
   e. S_1 = 0.44 (Max. 97603)
   f. Site Class = D
   g. S_{DS} = 0.81 (Max. 97603)
   h. S_{D1} = 0.46 (Max. 97603)
   i. Seismic Design Catagory = D

E. FOUNDATION (Spread Footings)
1. Adkins Consulting Engineering, LLP recommends that the owner/contractor hire a Geotechnical Engineer licensed by the state of Oregon to evaluate the site and prepare a report of their findings. Due to the lack of a current report for this site, the foundation has been designed using a 3,000 lb. allowable soil bearing capacity in accordance with the owner provided geotechnical investigation report prepared by *Shannon & Wilson, Inc.*, 2255 S.W. Canyon Road, Portland, OR 97201, (503)223-6147, Dated August 26, 1981. The contractor shall obtain a copy of this report and follow the recommendation contained there in and report in writing to the Architect, Engineer, Geotechnical Engineer, and the Building Official any condition mitigating the findings of the above referenced report.
2. Reference the project manual (technical specifications) for additional requirements.

F. SPECIAL INSPECTION
Special inspection shall be provided by the owner based on the requirements of the 2012 International Building Code (IBC) as summarized in the table below. The contractor shall provide sufficient notice and access for the special inspector to perform these inspections.

ITEM	CONTINUOUS	PERIODIC	COMMENTS
REINFORCED CONCRETE CONSTRUCTION			
Inspection of reinforcing steel	–	X	IBC 1913.4, ACI 318: 3.5, 7.1 – 7.7
Inspection of reinforcing steel welding	–	X	IBC Tbl. 1704.3, AWS D1.4, ACI 318: 3.5.2
Inspection of cast in place bolts	X	–	IBC 1911.5
Verifying use of required mix design	–	X	IBC 1904.2.2, 1913.2, 1913.3, ACI 318: Ch. 4, 5.2 – 5.4
Insp. at the time fresh concrete is sampled for testing	X	–	IBC 1913.10, ASTM: C172, C31, ACI 318: 5.6, 5.8
Inspection of concrete/shotcrete placement	X	–	IBC: 1913.6, 1913.7, 1913.8, ACI 318: 5.9, 5.10
Inspection of curing temperature and techniques	–	X	IBC 1913.9, ACI 318: 5.11 – 5.13
Inspection of formwork	–	X	ACI 318: 6.1.1
POST INSTALLED ANCHORS			
Epoxy bonded anchor installation	X		IBC 1912.2

PROGRAM FOOTNOTES:
1. The items checked with an x shall be inspected in accordance with IBC chapter 17 by a certified special inspector from an established testing agency. For material sampling and testing requirements, refer to the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the architect, structural engineer, contractor, and building official. Any materials which fail to meet the project specifications shall immediately be brought to the architect/engineer. Special inspection testing requirements apply equally to all bidder designed components.
2. Special inspection is not required for work performed by an approved fabricator per IBC section 1704.2.2.
3. Continuous special inspection means the full-time observation of the work requiring special inspection by an approved special inspector who is present in the area where the work is being performed.
4. Periodic special inspection means the part-time or intermittent observation of work requiring special inspection by an approved special inspector who is present in the area where the work has been or is being performed and at the completion of the work.
5. Architectural component inspection shall comply with IBC section 1707.6.
6. Mechanical and electrical components inspection shall comply with IBC section 1707.7 including sections 1707.1 & 1707.2. Reference mechanical and electrical drawings for a complete list of equipment requiring special inspection of it's bracing and anchorage.
7. See other sections of these notes for additional required inspections.
8. All discrepancies shall be brought to the immediate attention of the contractor for correction; then if not corrected, to the building official and to the Engineer in writing. The inspector shall furnish an inspection report to the building official and to the Engineer/Architect of Record.

G. POST-INSTALLED ANCHORS INTO CONCRETE AND MASONRY
POST-INSTALLED ANCHORS: Install only where specifically shown in drawings or where allowed by EOR. All post-installed anchor types and locations shall be approved by the EOR and shall have a current ICC-ESR that provides relevant design values necessary to validate that the available strength exceeds the the strength required by analysis. Submit current ICC-ESR to EOR for proposed substitutions. Substitutions will be reviewed on a time and materials basis to be paid by the contractor with no guarantee substitution will be approved. All anchors shall be installed and inspected in strict accordance with the ICC-ESR and the manufacturer's instructions. Structural Special Inspection is required and shall be contracted through the owner. Anchor type, size, and embedment shall be per the drawings.

ADHESIVE ANCHORS: Where indicated on the drawings the contractor shall install the following adhesives according to the corresponding ICC-ESR and substrate material. Drilled-in anchor embedment lengths shall be per the drawings but not less than 7 times the nominal diameter (7D).
a. HILTI "HIT-RE 500 SD", ICC-ESR 2322 for concrete.
b. Simpson "SET-XP", ICC-ESR 2508 for concrete.
c. HILTI "HY-150 MAX", ICC-ESR 1967, for masonry.
d. Simpson "SET-22", ICC-ESR 1772 for masonry.
EXPANSION ANCHORS: Where indicated on the drawings the contractor shall install the following expansion anchors according to the corresponding ICC-ESR and substrate material.
a. HILTI "KWIK BOLT 3", ICC-ESR 1385 for masonry.
b. SIMPSON "WEDGE-ALL", ICC-ESR 1396 for masonry.
c. HILTI "KWIK BOLT TZ", ICC-ESR 1917 for concrete and masonry.
d. SIMPSON "STRONG-BOLT", ICC-ESR 1771 for concrete and masonry.
SCREW ANCHORS: Where indicated on the drawings the contractor shall install the following "screw type" anchors according to the corresponding ICC-ESR and substrate material.
a. SIMPSON "TITEN HD", ICC-ESR 1056 for masonry and ICC-ESR 2322 for concrete.

H. CONCRETE
1. All concrete work shall conform to chapter 19 of the 2014 Oregon Structural Specialty Code.
2. MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE f'c (OSSC Table 1904.2.2)

TYPE OR LOCATION OF CONCRETE	MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c @ 28 days, psi) SEVERE
Basement slabs and interior slabs on grade, except garage floor slabs	2,500 PSI

   a. Concrete in these locations that can be subjected to freezing and thawing during construction shall contain the proper admixtures to obtain 7% air entrainment.
   b. Concrete in these locations shall contain the proper admixtures to obtain 7% air entrainment.
   c. For garage floor slabs where a steel trowel finish is used the total air content required by section 1904.2.1 is permitted to be reduced to not less than 3 percent, provided the minimum specified compressive strength of the concrete is increased to 4,000 psi.
   d. 28 day Concrete compressive strength shall be verified by standard 28 day cylinder tests per ASTM C39.
3. Reinforcing Steel:
   a. Shall conform to ASTM A615, Grade 60, for deformed bars unless noted otherwise.
   b. Splices shall be 48 bar diameters with 24" minimum unless noted otherwise.
   c. Where horizontal reinforcing is noted as "continuous" provide 2'-6" X 2'-6" corner bars at corners of bond beams, footings, walls, ect. Corner bars shall be of the same size, spacing, location, and quantity as the continuous reinforcing specified.
4. When air temperature is above 85 degrees Fahrenheit or when wind exceeds 10 mph. place concrete in accordance with ACI 305, Hot Weather Concreting. When the average air temperature is below 40 degree Fahrenheit place concrete in accordance with ACI 306, cold weather concreting.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)
1. CLSM shall be designed to meet the following minimum requirements:
   a. Water cement ratio not to exceed 3.5.
   b. Min. cement content of 50lbs per cubic yard
   c. Compressive strength at 28 days minimum of 250psi as determined by ASTM D 4832
   d. Slump between 6 and 8 inches when tested according to ASTM C143
2. Contractor to allow for 28 day curing period before concrete to be placed over CLSM base unless approved by engineer.

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ENGINEERING - SURVEYING - PLANNING - TESTING

OREGON TECH STUDENT RECREATION CENTER

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Klamath Falls, OR
97601

No.	Description	Date

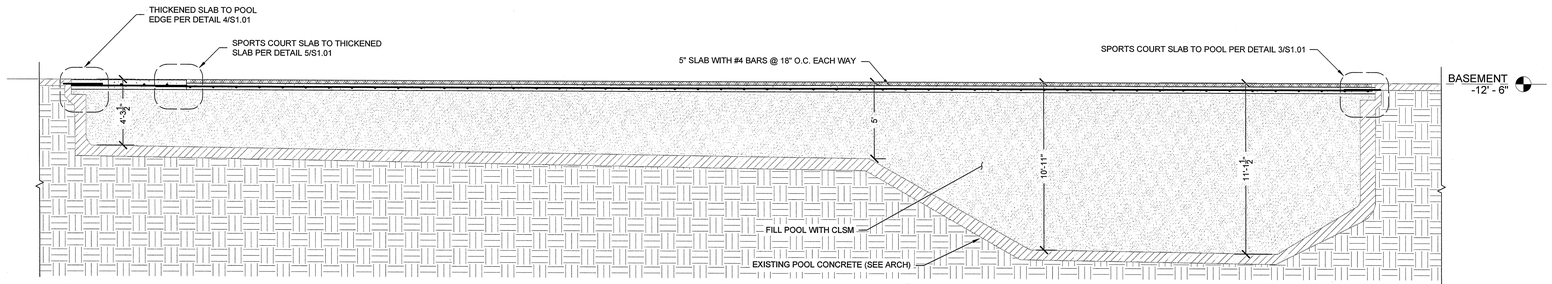
Project Number 1820
Date 08.13.2019
ACE Project Number 3439-0201

CONFORMANCE SET

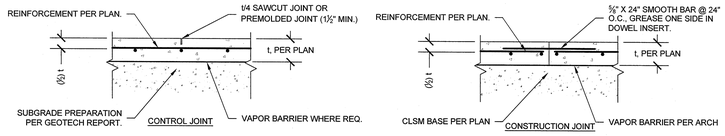
STRUCTURAL PLANS & NOTES

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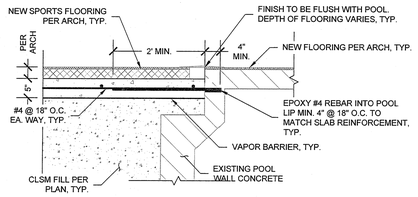


1 POOL INFILL SECTION
1/4"=1'-0"

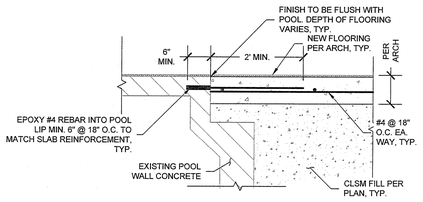


NOTES:
1. CONSTRUCTION OR CONTROL JOINT LOCATIONS PER FOUNDATION/SLAB PLAN.
2. USE "EARLY ENTRY DRY CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELING OF CONCRETE EDGES. SAW CUT SHORT DIRECTION FIRST.
3. PROVIDE CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQ. AREAS OF NO MORE THAN 100 SF, MAX PANEL ASPECT RATIO OF 1.3 TO 1.0.

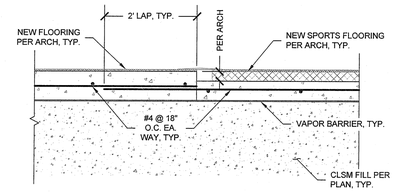
2 SLAB ON GRADE JOINT DETAILS
Scale: 3/4" = 1'-0"



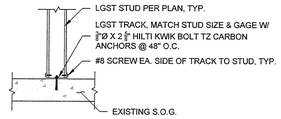
3 SPORTS COURT SLAB TO POOL LIP
3/4" = 1'-0"



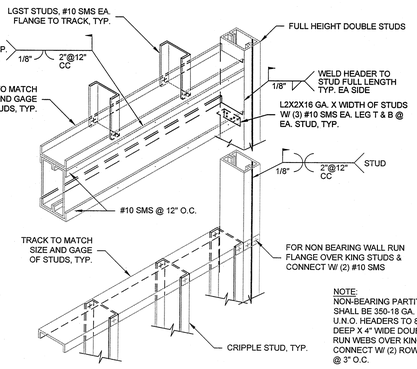
4 THICKENED SLAB TO POOL LIP
3/4" = 1'-0"



5 SPORTS COURT SLAB TO THICKENED SLAB
3/4" = 1'-0"

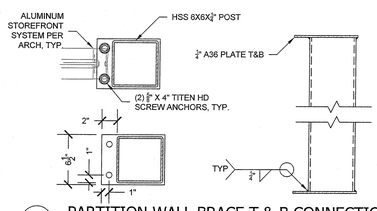


6 WALL/FLOOR CONNECTION
Scale: 3/4" = 1'-0"

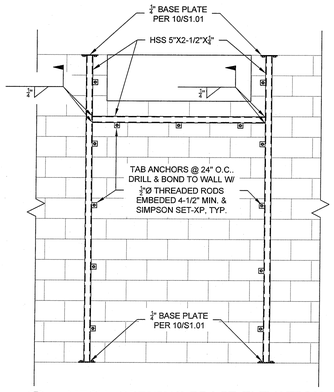


NOTE:
NON-BEARING PARTITION WALLS SHALL BE 350-18 GA. @ 24" O.C. U.N.O. HEADERS TO 8' SHALL BE 4" DEEP X 4" WIDE DOUBLE BOX HDR. RUN WEBS OVER KING STUDS & CONNECT W/ (2) ROWS OF #10 SMS @ 3" O.C.

7 LIGHT GAGE STEEL OPENING DETAIL
Scale: 3/4" = 1'-0"



8 PARTITION WALL BRACE T & B CONNECTION
1-1/2" = 1'-0"



9 MECH. OPENING BRACE ELEVATION
Scale: 1/2" = 1'-0"



10 MECH. OPENING BRACE CONNECTION DETAILS
1-1/2" = 1'-0"

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No.	Description	Date

Project Number 1820
Date 08.13.2019
ACE Project Number 3439-0201

CONFORMANCE SET

STRUCTURAL DETAILS

S1.01

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MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
AHU	AIR HANDLING UNIT
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
B	BOILER
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CL	CENTERLINE
CV	CHECK VALVE
CH	CHILLER
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
CT	COOLING TOWER
DB	DECIBEL
DP	DEW POINT, DIFFERENTIAL PRESSURE
DIA	DIAMETER
DX	DIRECT EXPANSION
DG	DOOR GRILLE
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EL	ELEVATION
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
FA	FACE AREA
F	FAHRENHEIT
FC	FAN COIL
FT	FEET
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPI	FINS PER INCH
FD	FIRE DAMPER
FC	FLEXIBLE CONNECTOR
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HEAT PUMP
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MW	MAKE-UP WATER
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MS	MOTOR STARTER
MD	MOTORIZED DAMPER
MH	MOUNTING HEIGHT
(N)	NEW
NC	NOISE CRITERIA
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
P	PUMP
QTY	QUANTITY
REF	REFRIGERANT
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RH	RELATIVE HUMIDITY
RLD	RELIEF DAMPER
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
UD	UNDERCUT DOOR
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
V	VOLT
VD	VOLUME DAMPER (HAND OPERATOR)
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- 12x12 / 100 CD-1 — DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

Equipment

- CHILLER, AIR COOLED
- CHILLER, WATER COOLED
- COOLING TOWER

General

- LIMIT OF DEMOLITION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- 30X16 — RECTANGULAR DUCT SIZING
- 30"Ø — ROUND DUCT SIZING

Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EXPANSION JOINT
- EXPANSION LOOP
- EXPANSION TANK
- FLOW SWITCH
- HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE BELOW GRADE
- PIPE DROP
- PIPE REMOVED IN DEMOLITION
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- PUMP
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- WATER METER

Piping Systems

- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION

Piping Valves

- BALANCING VALVE
- CHECK VALVE
- CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

GENERAL ELECTRICAL NOTES

A. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

B. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

C. PROVIDE CEILING ACCESS PANELS FOR ALL DUCT DAMPERS OR CONCEALED VOLUME DAMPER REGULATORS LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. MAINTAIN FIRE RATINGS WHERE REQUIRED.

D. PAINT ALL EXPOSED PIPING, COLOR AS DIRECTED BY ARCHITECT.

E. INSTALL THERMOSTATS, HUMIDITY SENSORS, CO2 SENSORS, AND TEMPERATURE SENSORS AT 4'-0" A.F.F. PER ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON DRAWINGS. PROVIDE ONE THERMOSTAT FOR EACH FAN COIL SHOWN ON PLANS.

F. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL INTERIOR ELEVATIONS, LIGHTING, AND STRUCTURAL CONDITIONS. ARCHITECTURAL PLANS TO PROVIDE FINAL GRILLE AND DIFFUSER LOCATIONS IN THE EVENT OF A CONFLICT.

G. ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ALL THEIR APPLICABLE LAWS AND STATE REGULATIONS INCLUDING APPLICABLE SEISMIC ZONE REQUIREMENTS.

I. CONTRACTOR TO TEMPORARILY INSTALL 2" THICK 60% EFFICIENT FILTERS AT ALL RETURN AIR GRILLE LOCATIONS. FILTERS TO BE REMOVED AT CONCLUSION OF CONSTRUCTION.

J. PAINT ALL DIFFUSERS, REGISTERS AND GRILLES PER ARCHITECTURAL INSTRUCTIONS. ANY GRILLES INSTALLED IN GYPSUM BOARD WALLS AND CEILINGS ARE TO BE FURNISHED WITH FACTORY MILL OR PRIMER FINISH, READY FOR PAINTING IN THE FIELD.

K. DIFFUSER/GRILLE RUNOUTS ARE SAME SIZE AS DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED ON PLANS.

L. MAINTAIN REQUIRED CLEARANCES TO COMBUSTABLE CONSTRUCTION AS SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS. EQUIPMENT TO BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION,OTHER EQUIPMENT, VENTING SYSTEMS, PIPING, OR DUCTS CONNECTED TO THE EQUIPMENT BEING SERVICED.

M. MAINTAIN MINIMUM DISTANCE OF 10'-0" BETWEEN ALL OUTSIDE AIR INTAKES AND EXHAUST OUTLETS.

N. TRANSITION DUCTWORK AS REQUIRED TO MATCH UNIT CONNECTION SIZE.

O. PROVIDE DIFFUSERS, REGISTERS AND GRILLES PER DETAIL 12/M6.0, FOR THOSE WITH ROUND NECKS, AND 13/M6.1, FOR THOSE WITH SQUARE NECKS.

P. ALL DIFFUSERS CONFIGURED FOR A 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN.

SHEET INDEX

M0.01	SYMBOLS LIST AND GENERAL NOTES - MECHANICAL
M0.02	SCHEDULES - MECHANICAL
M0.03	SCHEDULES - MECHANICAL
M2D.01	POOL LEVEL DEMO FLOOR PLAN - MECHANICAL
M2.01	REC CENTER FLOOR PLAN - MECHANICAL
M2.02	MAIN LEVEL FLOOR PLAN - MECHANICAL
M3.01	REC CENTER FLOOR PLAN - MECHANICAL PIPING
M4.01	SCHEMATICS - MECHANICAL
M5.01	DETAILS - MECHANICAL

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REGISTERED PROFESSIONAL ENGINEER — 65438PE — OREGON — MAY 10, 2005 — ANDREW LASSE
EXPIRES: 12/31/20

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97601

No.	Description	Date
	APR 01	6/10/19

Project Number 1820
Date 8.13.2019

CONFORMANCE

SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

M0.01

PROJECT 2018-0610
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DOAS SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN									EXHAUST FAN						
					MIN														
				TOTAL	OSA	TSP	ESP	# OF			FAN	VFD	TOTAL	TSP	ESP	# OF			FAN	VFD
SYMBOL	AREA SERVED	MFR	MODEL	CFM	CFM	(IN H2O)	(IN H2O)	FANS	BHP	MHP	RPM	(Y/N)	CFM	(IN H2O)	(IN H2O)	FANS	BHP	MHP	RPM	(Y/N)
DOAS-1	LOWER LEVEL	XETEX	AHR-140-HW	9000	100%	3.7	1.5	2	3.95	5	2411	Y	9000	2.85	1	2	3.64	5	2353	Y

NOTES:
1. TSP INCLUDES FILTER DP
2. PROVIDE SEPARATE 110 V POWER SUPPLY FOR LIGHTING AND RECEPTACLES
3. MAINTAIN 4' CLEARANCE AROUND UNIT FOR MAINTENANCE
4. MOUNT ON 4" CONCRETE HOUSEKEEPING PAD

DOAS SCHEDULE (CONTINUED)

HOT WATER HEATING COIL											HEAT RECOVERY									FILTER			ELECTRICAL						
MIN			WATER					FACE				WINTER					SUMMER					FACE				EMERG.		APPROX.	MAX	
CAP	#		FLOW	EWT	LWT	EAT	LAT	VELOCITY	APD	WPD		SA	SA	EA	EA	SA	SA	EA	EA	EFF	VEL	PD			POWER	CONTROLS	DIMS	WT	
(MBH)	ROWS	FPI	(GPM)	(°F)	(°F)	(°F)	(°F)	(FPM)	(IN H2O)	(FT H2O)	TYPE	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	MERV	(FPM)	(IN H2O)	VOLTS	PH	(Y/N)	REF	(LxWxH)	(LBS)	NOTES
335	3	9	34	120	98	55	90	541	0.28	0.25	WHEEL	6	55	70	36	90	79	75	86	8	550	0.68	460	3	N	DDC	216x108x72	9000	1,2,3,4

NOTES:
1. TSP INCLUDES FILTER DP
2. PROVIDE SEPARATE 110 V POWER SUPPLY FOR LIGHTING AND RECEPTACLES
3. MAINTAIN 4' CLEARANCE AROUND UNIT FOR MAINTENANCE
4. MOUNT ON 4" CONCRETE HOUSEKEEPING PAD

FCU SCHEDULE (HEATING-ONLY)

		BASIS OF DESIGN			HEATING DATA									
SYMBOL	AREA SERVED	MFR	MODEL	AIR FLOW (CFM)	MIN CAP (MBH)	WATER FLOW (GPM)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	WPD (FT H2O)	HW MIN BRANCH PIPE SIZE	CONTROLS REF	WEIGHT (LBS)	NOTES
FCU-1	EXERCISE STUDIO	POLAR AIR	PCG-08	306	15	2.1	120	98	70	85	5	3/4"	T-STAT	70	1
FCU-2	EXERCISE STUDIO	POLAR AIR	PCG-08	306	15	2.1	120	98	70	85	5	3/4"	T-STAT	70	1
FCU-3	CARDIO	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	80	1
FCU-4	CARDIO	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	50	1
FCU-5	CARDIO	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	50	1
FCU-6	WEIGHT	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	60	1
FCU-7	WEIGHT	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	60	1
FCU-8	WEIGHT	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	60	1
FCU-9	WEIGHT	POLAR AIR	PCH-12	482	15	3.2	120	98	70	85	5.4	3/4"	T-STAT	60	1
FCU-10	RESTROOM	POLAR AIR	PCG-08	306	15	2.1	120	98	70	85	5	3/4"	T-STAT	70	1
FCU-11	RESTROOM	POLAR AIR	PCG-08	306	15	2.1	120	98	70	85	5	3/4"	T-STAT	70	1

NOTES:
1. LOCATE HIGH UP NEAR CEILING

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	ELECTRICAL	BASIS OF DESIGN
ET-1	EXPANSION TANK (HOT WATER) 40 GAL TANK VOLUME, 25 PSI FILL PRESSURE	-	WESSELS NLAP-40
ADS-1	AIR DIRT SEPARATOR (HOT WATER) 3" PIPE CONNECTION	-	WESSELS WVA-3

CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN			AIR SOURCE CONDENSER				ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN	NOM TONS	QTY OF COMPRESSORS	COMPRESSOR TYPE	AMBIENT DB (°F)	VOLTS	PH	MCA	MOCP	CONTROLS REF	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
CU-1	CARDIO	MITSUBISHI	PUMY-P48NKMU1	FCU-12,13,14	4	2	SCROLL	92	208	1	31	44	DDC	42x14x53	300	1,2
CU-2	EXERCISE	MITSUBISHI	PUMY-P36NKMU1	FCU-15,16	3	2	SCROLL	92	208	1	31	44	DDC	42x14x53	300	1,2

NOTES:
1. COOLING ONLY
2. R410A REFRIGERANT

PUMP SCHEDULE

		BASIS OF DESIGN							ELECTRICAL									
SYMBOL	AREA SERVED	MFR	MODEL	PUMP TYPE	FLUID TYPE	RPM	EFFICIENCY %	FLOW RATE (GPM)	HEAD (FT. H2O)	VOLTS	PH	BHP	MHP	VFD (Y/N)	STARTER (Y/N)	EMERG. POWER (Y/N)	CONTROLS REF	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
CP-1	BUILDING LOOP	WILO	GIGA 1.5 3-80	INLINE	WATER	3495	60	64	50	480	3	1.56	2.3	Y	N	N	DDC	12x6x22	125	

NOTES:
1. FOR PUMPS WITH VFD MOTORS, DO NOT CUT THE SPECIFIED IMPELLER SIZE FOR SYSTEM BALANCING

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

		BASIS OF DESIGN						HOT SIDE						COLD SIDE						MAX	
SYMBOL	AREA SERVED	MFR	MODEL	CAP (MBH)	PLATE MATERIAL	PLATE QTY	PLATE THICKNESS	FLUID	FLOW RATE (GPM)	WPD (FT H2O)	EWT (°F)	LWT (°F)	CONN SIZE	FLUID	FLOW RATE (GPM)	WPD (FT H2O)	EWT (°F)	LWT (°F)	CONN SIZE	WT (LBS)	NOTES
HX-1	BUILDING LOOP	TRANTZER	GXD-042-L-4	2.85	SS	1	.44mm	WATER	117	2.2	175	117	4"	WATER	116	2.2	110	160	4"	1300	1,2

NOTES:
1. MOUNT ON 4" TALL CONCRETE HOUSEKEEPING PAD
2. PIPED TO EXISTING GEOTHERMAL LOOP

FCU SCHEDULE (COOLING-ONLY)

		BASIS OF DESIGN		COIL DATA		COOLING DATA						ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	PEAK AIRFLOW (CFM)	MAX APD (IN H2O)	NOM (TONS)	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB (°F)	LDB (°F)	CONTROLS REF	VOLTAGE	PH	MCA	MOCP	WEIGHT (LBS)	DIM (LxWxH)	NOTES
FCU-12	CARDIO	MITSUBISHI	PKFY-P15NHMU-E2	413	-	1.25	15	11	75	55	T-STAT	208	1	0.38	15	60	36x10x12	1
FCU-13	CARDIO	MITSUBISHI	PKFY-P15NHMU-E2	413	-	1.25	15	11	75	55	T-STAT	208	1	0.38	15	60	36x10x12	1
FCU-14	CARDIO	MITSUBISHI	PKFY-P15NHMU-E2	413	-	1.25	15	11	75	55	T-STAT	208	1	0.38	15	60	36x10x12	1
FCU-15	EXERCISE	MITSUBISHI	PKFY-P12NHMU-E2	413	-	1	12	9	75	55	T-STAT	208	1	0.38	15	60	36x10x12	1
FCU-16	EXERCISE	MITSUBISHI	PKFY-P12NHMU-E2	413	-	1	12	9	75	55	T-STAT	208	1	0.38	15	60	36x10x12	1

NOTES:
1. PROVIDE CONDENSATE PUMP PACKAGE

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REGISTERED PROFESSIONAL ENGINEER 65438PE OREGON MAY 10, 2005 ANDREW LASSE
EXPIRES: 12/31/20

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date

Project Number 1820
Date 8.13.2019

CONFORMANCE

SCHEDULES - MECHANICAL

M0.02

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LOUVER SCHEDULE

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	AIR FLOW (CFM)	MAX APD (IN H2O)	MIN FREE AREA (SQ FT)	NOTES
L-1	MAIN LEVEL OFFICES	RUSKIN	ELF	INTAKE	200	0.05	1.5	1,2
L-2	MAIN LEVEL OFFICES	RUSKIN	ELF	EXHAUST	200	0.05	1.5	1,2

NOTES:
1. STATIONARY AND DRAINABLE
2. ARCHITECT TO SPECIFY FINISH

HEAT RECOVERY UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN					EXHAUST FAN					HEAT RECOVERY							FILTER	ELECTRICAL						
															WINTER			SUMMER			FACE				EMERG.	APPROX.	MAX	
				TOTAL	ESP	FAN	# OF	VFD	TOTAL	ESP	FAN	# OF	VFD		SA	SA	EA	SA	SA	EA	EFF	VEL			POWER	DIMS	WT	
SYMBOL	AREA SERVED	MFR	MODEL	CFM	(IN H2O)	TYPE	FANS	(Y/N)	CFM	(IN H2O)	TYPE	FANS	(Y/N)	TYPE	EAT (°F)	LAT (°F)	EAT (°F)	EAT (°F)	LAT (°F)	EAT (°F)	MERV	(FPM)	VOLTS	PH	CONSUMPTION	(Y/N)	(LxWxH)	(LBS)	NOTES
HRV-1	MAIN LEVEL - OFFICES	AMERICAN ALDES	H280-SRG	200	0.5	BACKWARD-INCLINE	1	Y	200	0.5	BACKWARD-IBCLINE	1	Y	PLATE	6	19	70	92	87	75	13	<500	120	1	263W	N	36x22x18	80	1,2

NOTES:
1 TO BE HUNG FROM STRUCTURE
2 PROVIDE SEPARATE 110 V POWER SUPPLY FOR LIGHTING AND RECEPTACLES

FAN COIL SCHEDULE (HEATING AND COOLING)

		BASIS OF DESIGN		COIL DATA		COOLING DATA					HEATING DATA			ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	AIR FLOW (CFM)	MAX APD (IN H2O)	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	CAP (MBH)	EAT (°F)	LAT (°F)	VOLTS	PH	MCA	MOCP	CONTROLS REF	DIM LxWxH	WEIGHT (LBS)	NOTES
FCU-17	OFFICES	MITSUBISHI	PEFY-P18NMAU-E3	600	-	18	14	75	67	55	20	70	85	208	1	1.56	15	T-STAT	36x29x10	60	1
FCU-18	OFFICES	MITSUBISHI	PEFY-P18NMAU-E3	600	-	18	14	75	67	55	20	70	85	208	1	1.56	15	T-STAT	36x29x10	60	1
FCU-19	OFFICES	MITSUBISHI	PEFY-P18NMAU-E3	600	-	18	14	75	67	55	20	70	85	208	1	1.56	15	T-STAT	36x29x10	60	1

NOTES:
1. PROVIDE CONDENSATE PUMP PACKAGE

HEAT PUMP SCHEDULE

		BASIS OF DESIGN			AIR SOURCE HEAT PUMP CONDENSER									ELECTRICAL							
								COOLING			HEATING							EMERG.		APPROX.	MAX	
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN	NOM TONS	QTY OF COMPRESSORS	COMPRESSOR TYPE	CAP (MBH)	AMBIENT DB (°F)	EER	CAP (MBH)	AMBIENT WB (°F)	COP	VOLTS	PH	MCA	MOCP	POWER (Y/N)	CONTROLS REF	DIMS (LxWxH)	WT (LBS)	NOTES
HP-1	OFFICES	MITSUBISHI	PUHY-P72TLMU-A	FCU-17,18,19	6	1	SCROLL	72	92	13.7	80	6	3.84	208	3	24	35	N	DDC	30x36x64	450	

NOTES:
1. SINGLE POINT POWER CONNECTION

OUTSIDE AIR VENTILATION SCHEDULE: 100% OA CALCULATION

UNIT TAG	ROOM NAME	ROOM AREA Az (FT2)	PEOPLE OUTDOOR AIRFLOW RATE Rp (CFM/PERSON)	AREA OUTDOOR AIRFLOW RATE Ra (CFM/AREA)	DEFAULT OCCUPANT DENSITY PEOPLE/1000FT2	DEFAULT ZONE POPULATION Pz (# PEOPLE)	ROOM POPULATION OVERRIDE Pz (# PEOPLE)	PEOPLE OUTDOOR AIRFLOW Rp*Pz=___(CFM)	AREA OUTDOOR AIRFLOW Ra*Az=___ (CFM)	BREATHING ZONE OUTDOOR AIRFLOW Vbz=Rp*Pz+Ra*Az (CFM)	CODE EXHAUST AIRFLOW REQUIRED (CFM)	EXHAUST AIRFLOW PROVIDED (CFM)	ROOM AIR DISTRIBUTION EFFECTIVENESS Ez (UNITLESS)	ROOM OUTDOOR AIRFLOW Voz=Vbz/Ez (CFM)	OUTDOOR AIR INTAKE Vot = Vou (CFM)	ZONE OUTDOOR AIR INTAKE PROVIDED (CFM)	NOTES
DOAS-1	CARDIO 020	1233	20	0.06	10	12		247	74	321			0.8	401	400	400	
	WEIGHT 018	2378	20	0.06	10	24		476	143	618			0.8	773	775	900	
	EXERCISE STUDIO 007	893	20	0.06	10	9		179	54	232			0.8	290	290	400	
	WOMENS LOCKER 012	520	50			exh per fixture >>	6	300	0	300	300	400		-	-	400	1
	UNISEX/FAMILY 013	136	50			exh per fixture >>	2	100	0	100	100	150		-	-	150	1
	MENS LOCKER 015	520	50			exh per fixture >>	4	200	0	200	200	400		-	-	400	1
	JANITOR 014	34	50			exh per fixture >>	1	50	0	50	50	75		-	-	75	1
	STORAGE 017	207	5	0.12	2	0		2	25	27			0.8	34	35	50	
	HALL 008	803		0.06		0		0	48	48			0.8	60	60	60	
	HALL 019	521		0.06		0		0	31	31			0.8	39	40	50	
	ACCESS CONTROL POINT 005	207	5	0.06	30	6		31	12	43			0.8	54	55	55	
	SPORTS COURT 022	4755		0.30	30	143		0	1427	1427			0.8	1783	1785	6000	
	SUBTOTAL=	**12207**								**SUBTOTAL =**	**650**	**1025**		**SUBTOTAL =**	**3440**	**8940**	
HRV-1	OFFICE 101	100	5	0.06	5	1		3	6	9			0.8	11	10	15	
	OFFICE 102	130	5	0.06	5	1		3	8	11			0.8	14	15	20	
	OFFICE 103	130	5	0.06	5	1		3	8	11			0.8	14	15	20	
	OFFICE 104	100	5	0.06	5	1		3	6	9			0.8	11	10	15	
	OFFICE 105	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 106	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 107	75	5	0.06	5	0		2	5	6			0.8	8	10	15	
	OFFICE 108	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 109	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 110	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 111	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 112	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 113	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	OFFICE 114	115	5	0.06	5	1		3	7	10			0.8	12	10	15	
	CORRIDOR 119	400		0.06		0		0	24	24			0.8	30	30	35	
	SUBTOTAL=	**1970**								**SUBTOTAL =**	**0**	**0**		**SUBTOTAL =**	**180**	**255**	

NOTES:
1 BASED ON MINIMUM EXHAUST RATE PER FIXTURE (CFM/UNIT)

FAN SCHEDULE (BID ALTERNATIVE)

SYMBOL	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	FAN RPM	ELECTRICAL VOLTS	PH	FLA	CONTROLS REF	APPROX. DIMS (DIAXH)	MAX WT (LBS)	NOTES
CF-1	SPORTS COURT 022	BIG ASS	ESSENCE 12FT	CEILING	75	208	1	10	WALL SWITCH	12'x32"	90	1,2
CF-2	SPORTS COURT 022	BIG ASS	ESSENCE 12FT	CEILING	75	208	1	10	WALL SWITCH	12'x32"	90	1,2
CF-3	CARDIO 021	BIG ASS	HAIKU 52IN	CEILING	200	100-240VAC	1	20.7W	WALL SWITCH	52"x18"	20	1,2
CF-4	CARDIO 021	BIG ASS	HAIKU 52IN	CEILING	200	100-240VAC	1	20.7W	WALL SWITCH	52"x18"	20	1,2
CF-5	CARDIO 021	BIG ASS	HAIKU 52IN	CEILING	200	100-240VAC	1	20.7W	WALL SWITCH	52"x18"	20	1,2
CF-6	CARDIO 021	BIG ASS	HAIKU 52IN	CEILING	200	100-240VAC	1	20.7W	WALL SWITCH	52"x18"	20	1,2

NOTES:
1 PROVIDE WALL MOUNTED MANUAL SPEED CONTROLLER WITH SECURITY CAGE
2 FINISH TO BE SPECIFIED BY ARCHITECTURAL

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	BASIS OF DESIGN	NOTES
CD-1	CEILING DIFFUSER	PLAQUE	Y	Y	TITUS OMNI	1
SD-1	SIDE WALL DIFFUSER	LOUVERED	Y	Y	TITUS 250	1
RG-1	RETURN GRILLE	GRILLE	Y	N	TITUS 350	1
SRG-1	SIDE WALL RETURN GRILLE	GRILLE	N	N	TITUS 350	1
EG-1	EXHAUST GRILLEE	GRILLE	Y	N	TITUS 350	1
SEG-1	SIDEWALL EXHAUST GRILLE	GRILLE	N	N	TITUS 350	1

NOTES:
1. ARCHITECTURAL TO SPECIFY FINISH

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REGISTERED PROFESSIONAL ENGINEER 65438PE OREGON MAY 10, 2005 ANDREW LASSE
EXPIRES: 12/31/20

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date

Project Number 1820
Date 8.13.2019

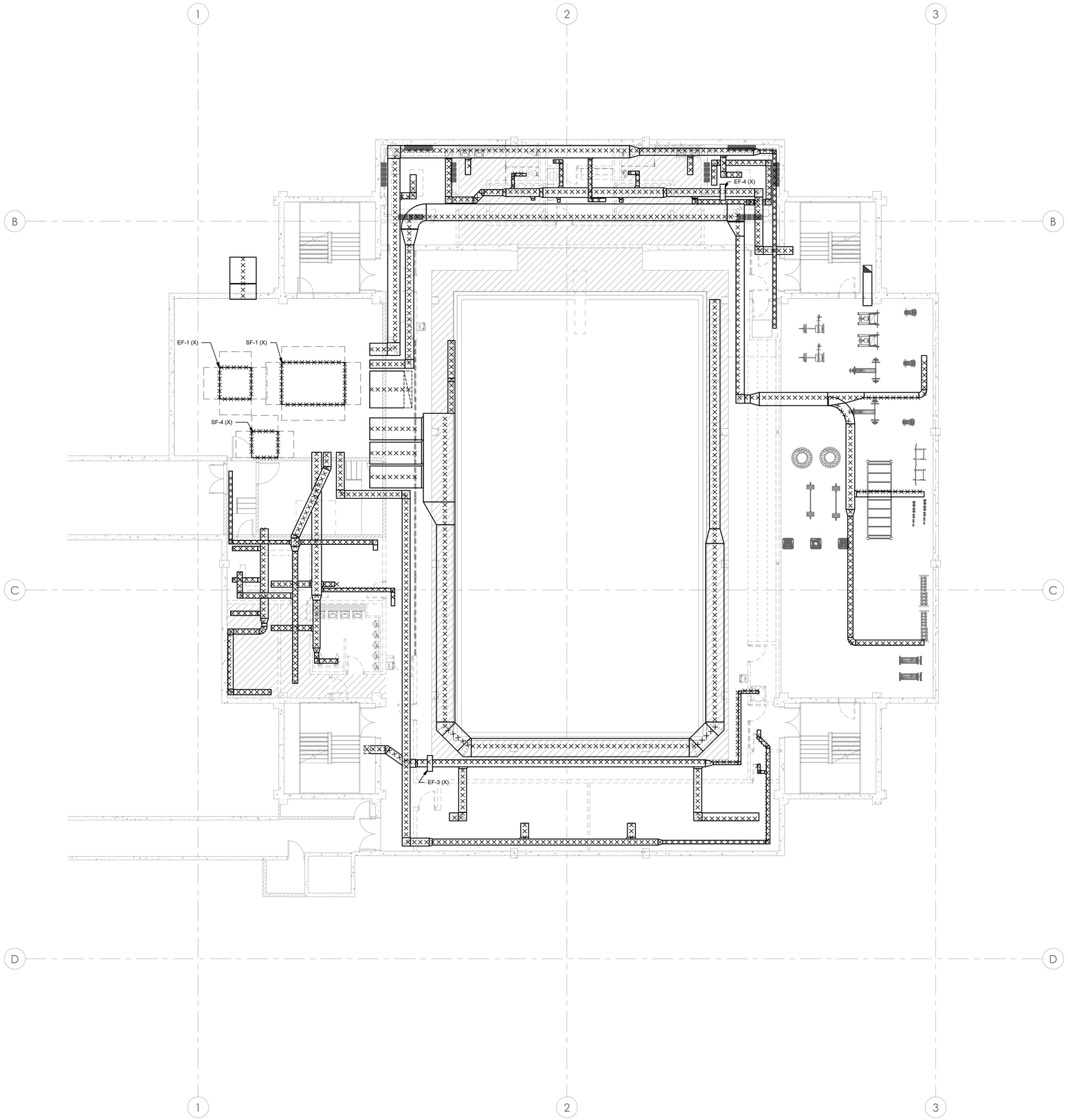
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SCHEDULES - MECHANICAL

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GENERAL SHEET NOTES

1 ALL EXISTING DUCTWORK, HOT WATER PIPING, EXHAUST FANS, AND SUPPLY FANS, AND HEAT EXCHANGERS TO BE DEMOED

1 POOL LEVEL DEMO FLOOR PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
MAY 10, 2005
ANDREW LASSE
EXPIRES: 12/31/20

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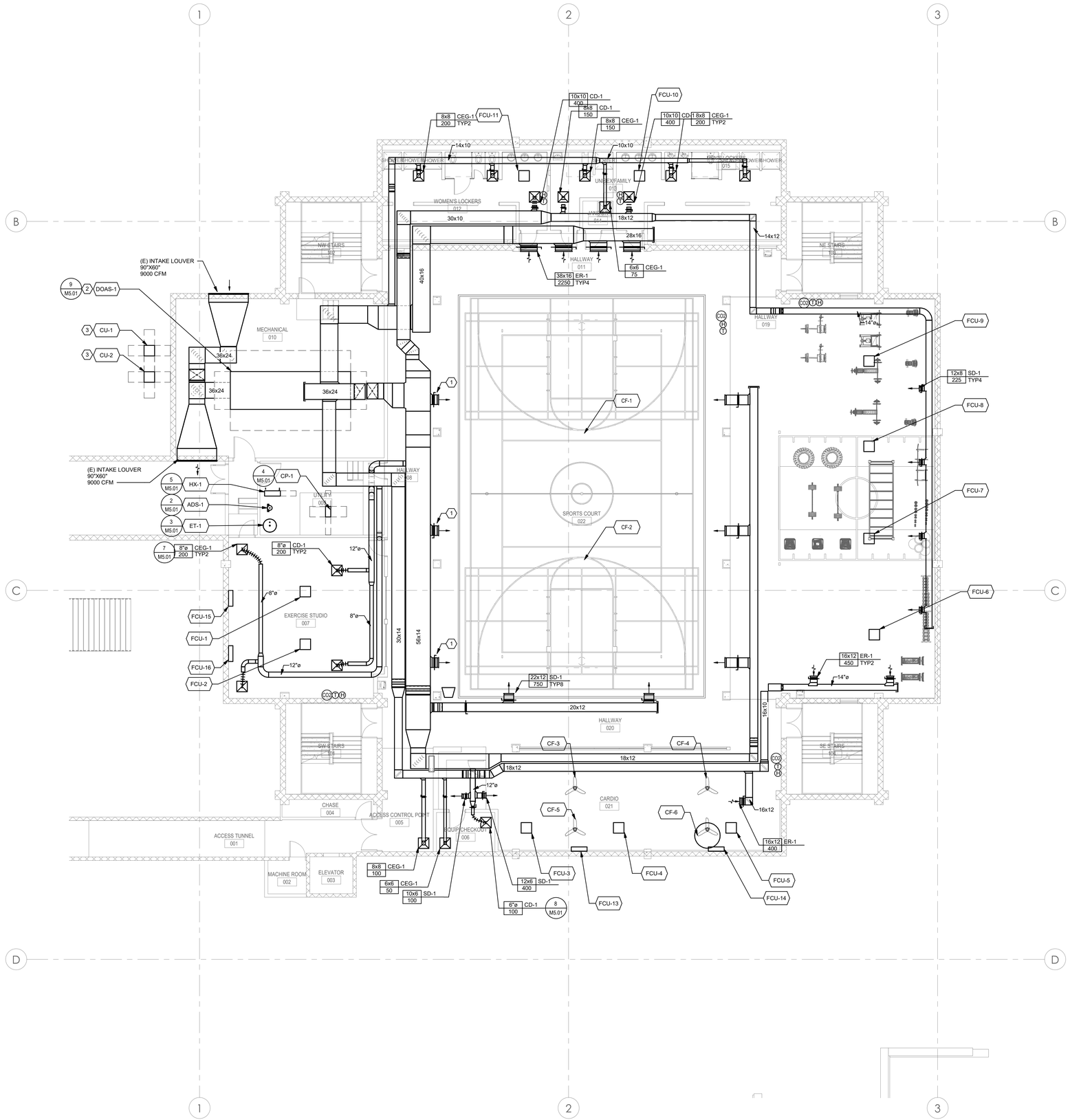
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POOL LEVEL DEMO FLOOR PLAN - MECHANICAL

MD2.01

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SHEET KEYNOTES

1. LOW LEAKAGE, OPPOSED BLADE, MANUAL BALANCING DAMPER AT DICT BRANCH TAKEOFF.
2. DUCT OUTSIDE AIR INTAKE AND EXHAUST TO EXISTING EXTERIOR LOUVERS.
3. INSTALL ON CONCRETE PAD ON GRAVEL BASE AND TAMPED EARTH.

1 REC CENTER FLOOR PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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EXPIRES: 12/31/20

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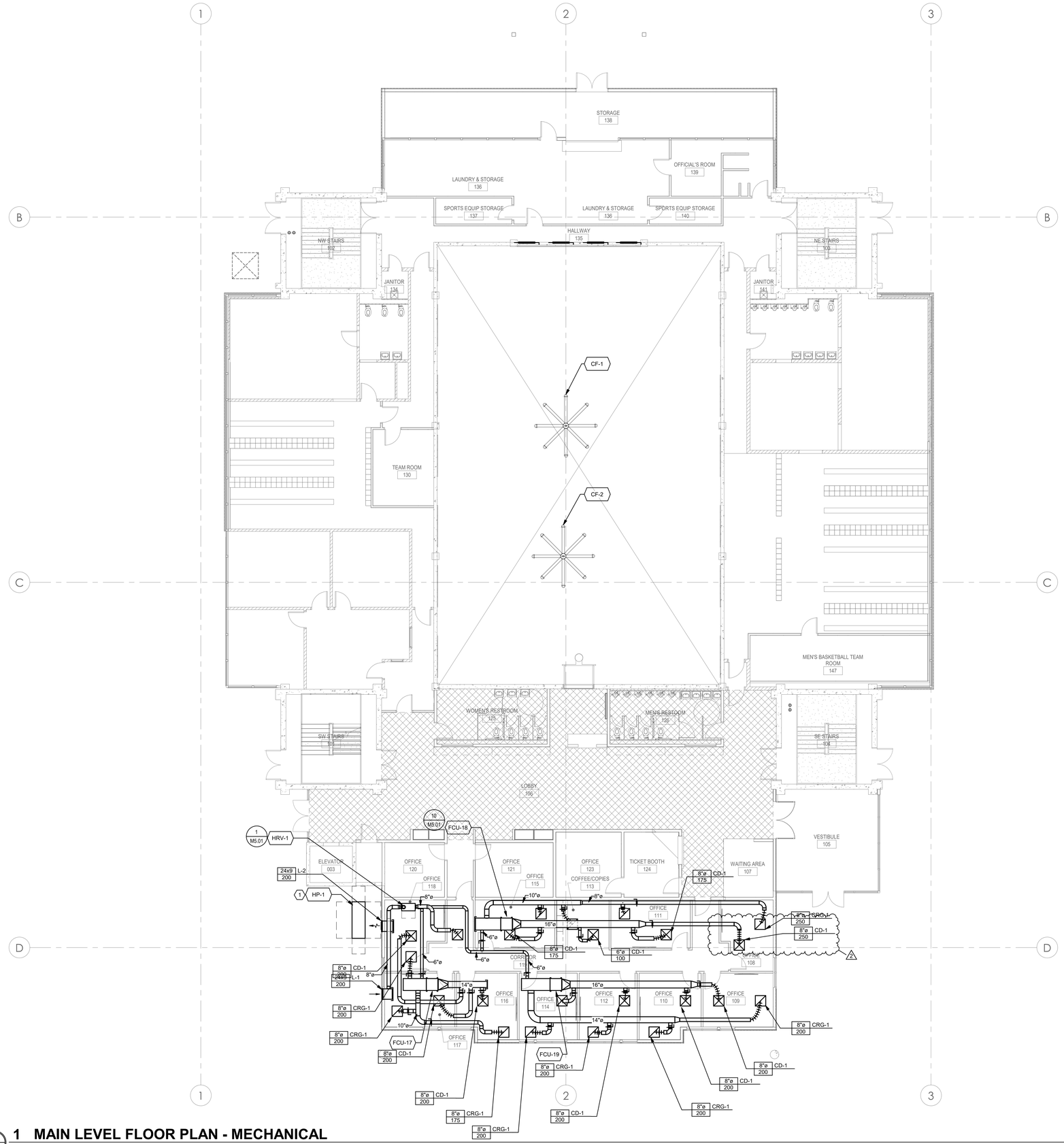
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REC CENTER FLOOR PLAN - MECHANICAL

M2.01

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SHEET KEYNOTES

1 INSTALL ON CONCRETE PAD ON GRAVEL BASE AND TAMPED EARTH.

1 MAIN LEVEL FLOOR PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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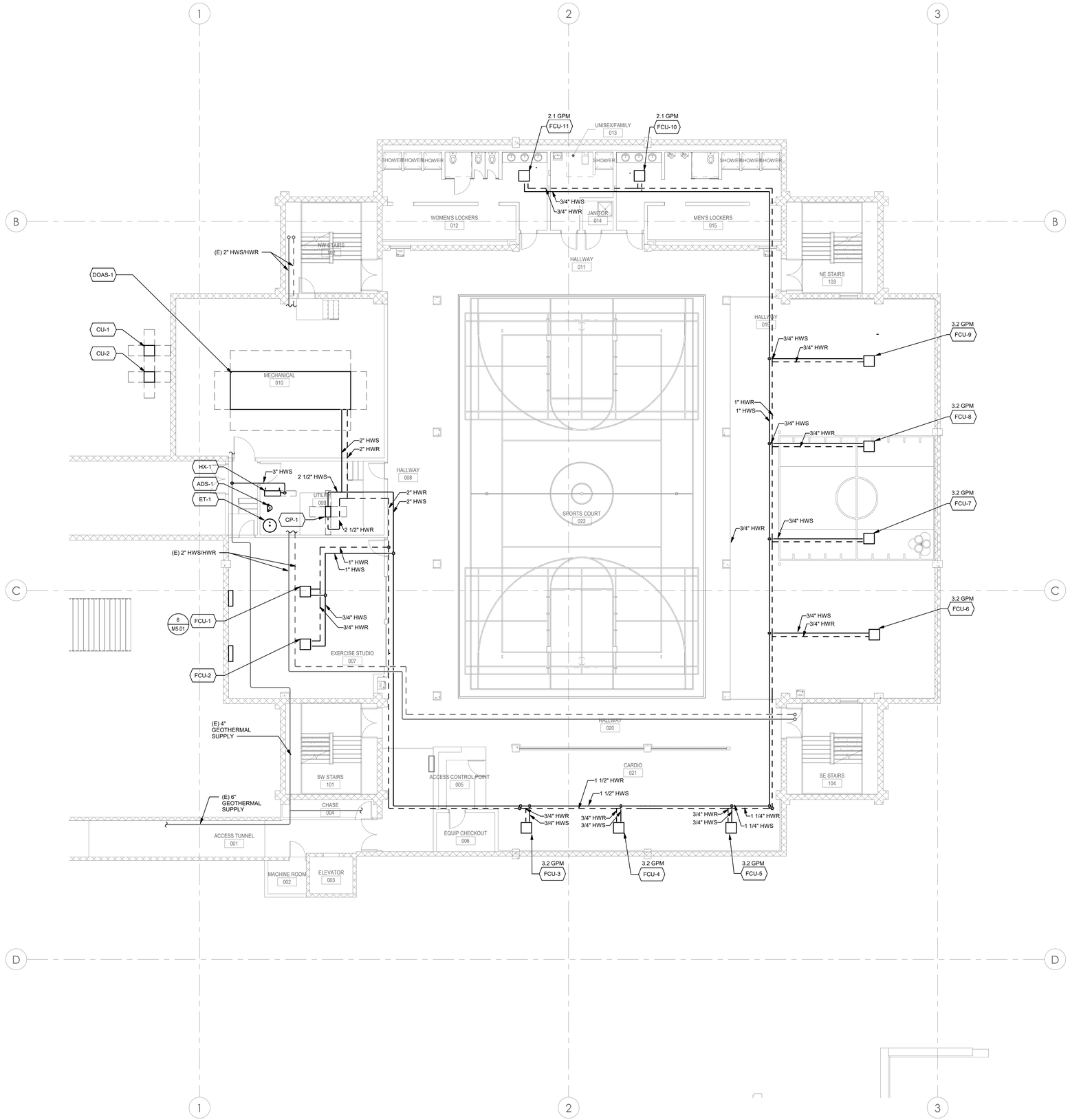
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MAIN LEVEL FLOOR PLAN - MECHANICAL

M2.02

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1 REC CENTER FLOOR PLAN - MECHANICAL PIPING

0' 4' 8' 16'

1/8" = 1'-0"

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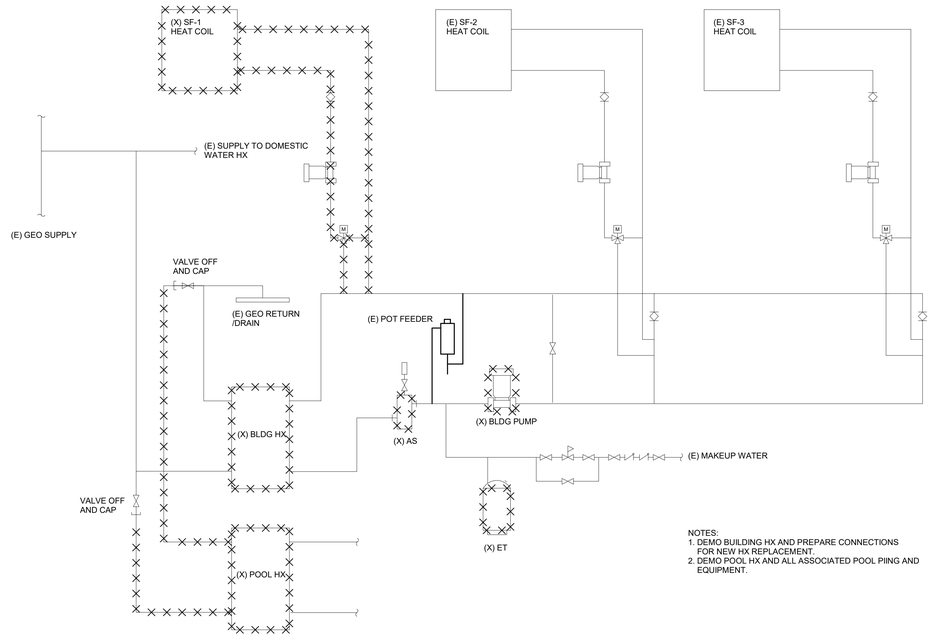
CONFORMANCE

REC CENTER FLOOR PLAN - MECHANICAL PIPING

M3.01

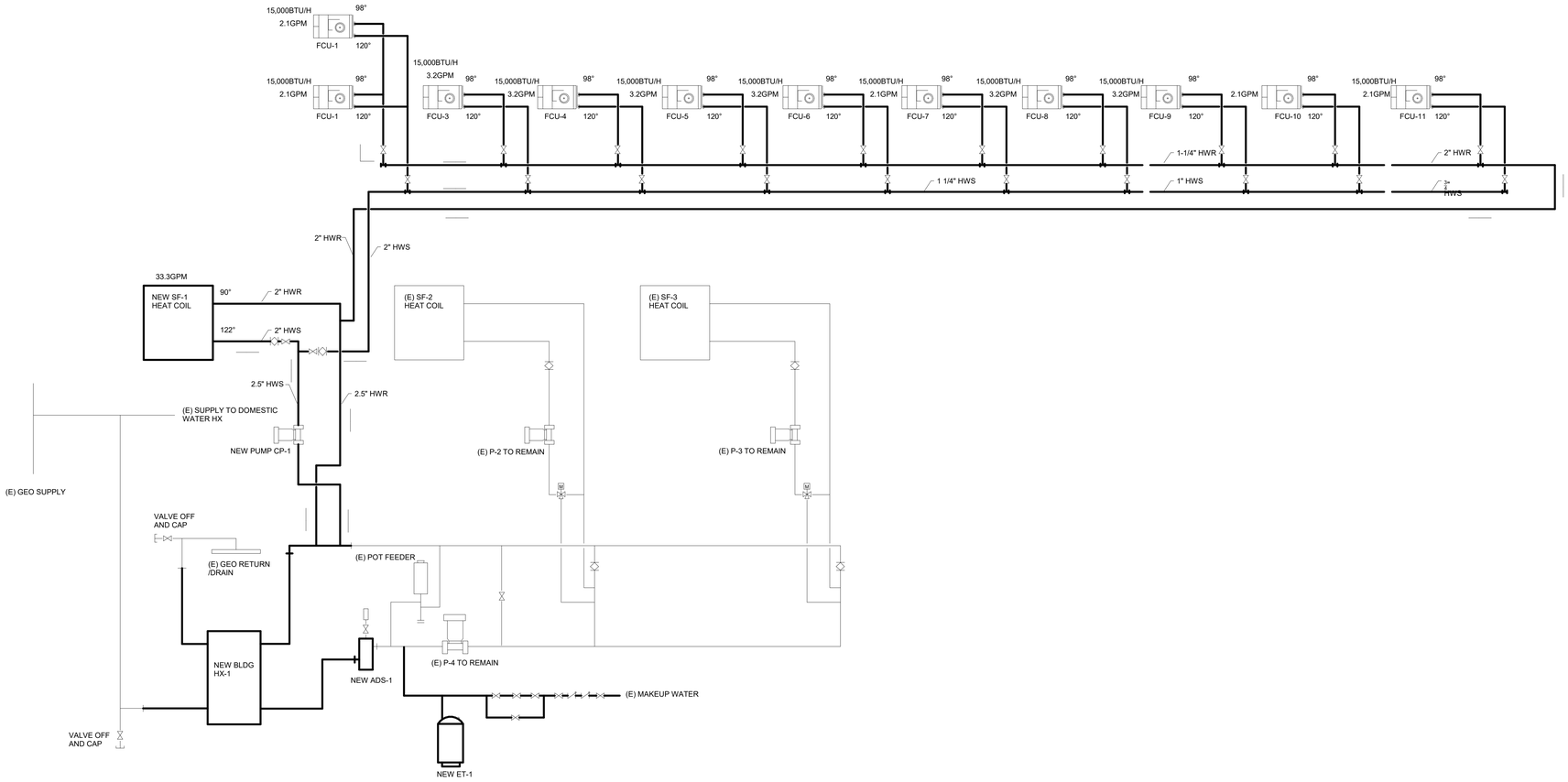
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1 MECHANICAL ROOM SCHEMATIC (DEMO)

NO SCALE



2 MECHANICAL ROOM SCHEMATIC (NEW)

NO SCALE

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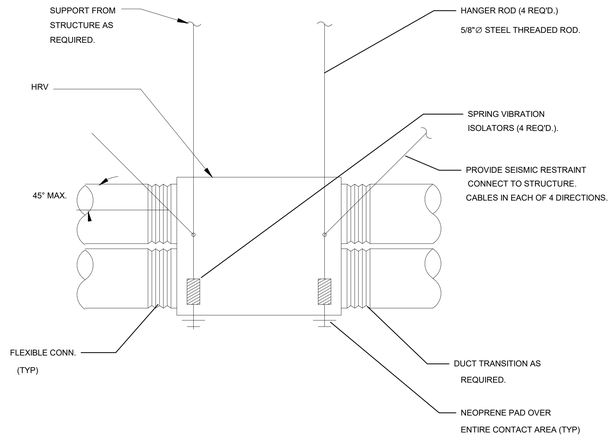
CONFORMANCE

SCHEMATICS - MECHANICAL

M4.01

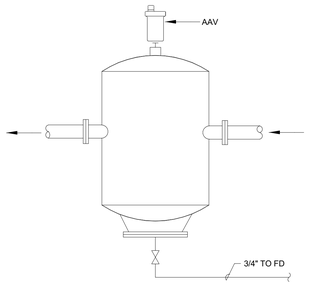
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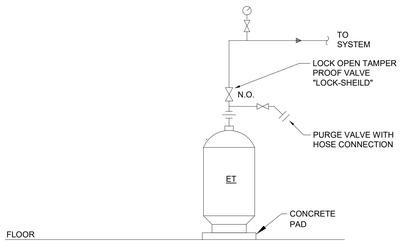
1 HRV-1 DETAIL

NOT TO SCALE



2 AIR SEPARATOR DETAIL

NOT TO SCALE

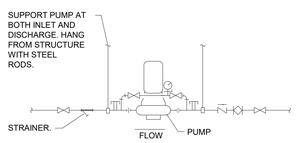


GENERAL NOTE:

A. PRECHARGE TANK TO FILL PRESSURE

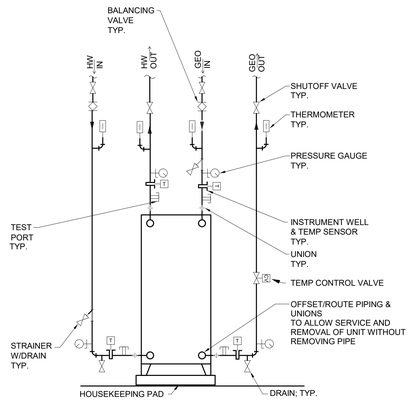
3 EXPANSION TANK DETAIL

NOT TO SCALE



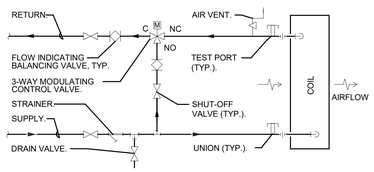
4 INLINE PUMP DETAIL

NOT TO SCALE



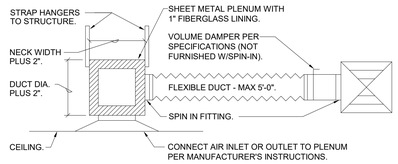
5 HEAT EXCHANGER DETAIL

NOT TO SCALE



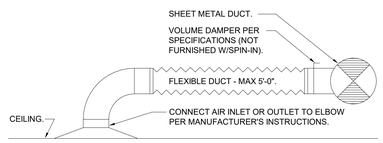
6 3-WAY VALVE DETAIL

NOT TO SCALE



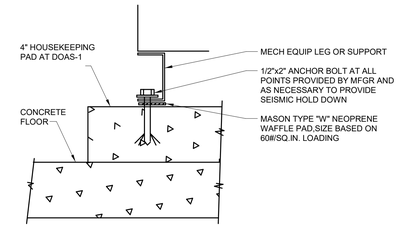
7 RECTANGULAR DIFFUSER DETAIL

NOT TO SCALE



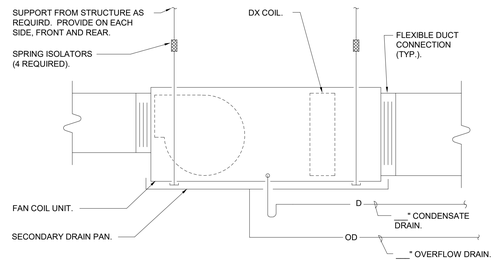
8 ROUND DIFFUSER DETAIL

NOT TO SCALE



9 HOUSEKEEPING PAD

NOT TO SCALE



10 INLINE FCU DETAIL

NOT TO SCALE

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EXPIRES: 12/31/20

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No.	Description	Date

Project Number 1820
Date 8.13.2019

CONFORMANCE

DETAILS - MECHANICAL

M5.01

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PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
@	AT
BFP	BACKFLOW PREVENTER
BV	BALANCING VALVE
BFF	BELOW FINISHED FLOOR
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
D	CONDENSATE DRAIN
CONT.	CONTINUATION
(X)	DEMOLISH
DN	DOWN
EWC	ELECTRIC WATER COOLER
ELECT	ELECTRICAL
(E)	EXISTING
F	FIRE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK, FLOW SWITCH
'	FOOT, FEET
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HP	HORSE POWER
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
HR	HOUR
IN, "	INCHES
INV	INVERT ELEVATION
KW	KILOWATT
L	LAVATORY
MAX	MAXIMUM
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
NPCW	NON-POTABLE COLD WATER
NOP	NORMALLY OPEN
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PH	PHASE
PLBG	PLUMBING
POC	POINT OF CONNECTION
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
(R)	RELOCATE / RELOCATED LOCATION
SAN	SANITARY
SA	SHOCK ARRESTOR
SH	SHOWER
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SD	STORM DRAIN
TEMP	TEMPERATURE
TP	TRAP PRIMER
TD	TRENCH DRAIN
TYP	TYPICAL
U, UR	URINAL
V	VENT
WCO	WALL CLEANOUT
W	WASTE
WC	WATER CLOSET
W/	WITH
W/O	WITHOUT

General

- CONTINUATION
- DETAIL NUMBER AND SHEET LOCATION (X / X)
- EQUIPMENT IDENTIFICATION (XX-X / LOCATION)
- EXTENT OF DEMOLITION
- FIXTURE TAG (LEVEL BELOW FIXTURE) (X)
- KEYED NOTE (X)
- PIPE BELOW GRADE
- POINT OF CONNECTION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

- ACCESS PANEL (AP)
- CAP
- CLEANOUT TO GRADE (COTG)
- FLOOR CLEANOUT (FCO)
- FLOOR DRAIN (FD)
- FLOOR SINK (FS)
- HOSE BIBB / WALL HYDRANT
- PIPE DROP
- PIPE RISE
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TRAP PRIMER MANIFOLD (TP)
- TRENCH DRAIN
- UNION
- WALL CLEANOUT (WCO)

Piping Systems

- COLD WATER PIPING
- CONDENSATE (D)
- FILTERED WATER (FW)
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- NON-POTABLE COLD WATER PIPING (NP)
- NON-POTABLE HOT WATER PIPING (NP)
- PUMPED DISCHARGE (PD)
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR (SD)
- STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR (SD)
- TEMPERED WATER PIPING (TW)
- TRAP PRIMER PIPING (TP)

Valves

- CHECK VALVE
- HOSE END DRAIN VALVE
- SHUTOFF VALVE, GENERAL

DEMOLITION NOTES

A COORDINATE DEMOLITION, CUTTING, PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.

B SAW CUTTING OF ANY FLOOR, AND CORE DRILLING HOLES LARGER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF REQUIRES THE APPROVAL OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS. CONTRACTOR TO RETAIN THE SERVICES OF THE STRUCTURAL ENGINEER AND FORWARD WET STAMPED STRUCTURAL CALCULATIONS TO THE ARCHITECT PRIOR TO BEGINNING WORK. HOLES SMALLER THAN EIGHT INCHES DIAMETER IN STRUCTURAL WALLS, FLOOR OR ROOF SHALL BE REVIEWED BY THE ARCHITECT AND AUTHORIZED IN WRITING PRIOR TO BEGINNING OF WORK.

C REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.

D THE COST OF CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, AND FLOOR AS REQUIRED TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE COST OF THE WORK FOR EACH TRADE. EMPLOY SKILLED WORKMEN TO PERFORM CUTTING AND PATCHING AND RESTORE DISTURBED SURFACES TO ORIGINAL CONDITION. THE MATERIALS AND WORKMANSHIP FOR ALL PATCHING SHALL BE AS SPECIFIED IN THE RESPECTIVE SECTIONS OF THE ARCHITECTURAL SPECIFICATIONS, OR AS DIRECTED BY THE ARCHITECT.

E CONTRACTOR SHALL VERIFY AND COORDINATE ALL EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.

F REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED. COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

GENERAL NOTES

A CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

C COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

D LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

E INSTALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE IN AREAS WITH EXPOSED ROOF STRUCTURE.

F REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS FOR PIPING AND EQUIPMENT.

G PROVIDE CLEANOUTS FOR SANITARY WASTE DRAINAGE SYSTEMS WHERE SHOWN AND AS OTHERWISE REQUIRED BY CODE.

H FURNISH AND INSTALL VALVES, TRAPS, STRAINERS, BACK FLOW PREVENTERS, ETC. NOT FURNISHED BY EQUIPMENT SUPPLIER, BUT REQUIRED FOR PROPER EQUIPMENT OPERATION.

I SHUT-OFF VALVES TO BE INSTALLED IN ALL WATER PIPING AT LOCATIONS SHOWN. PROVIDE ACCESS PANELS IF CEILING AND STRUCTURAL CONDITIONS DO NOT ALLOW NORMAL ACCESS. COORDINATE EXACT TYPE AND LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

J CONTRACTOR TO PROVIDE LOCATE/SCOPING SERVICES FOR EXISTING PIPING BELOW GRADE AND DOCUMENT/RECORD, COORDINATE WITH NEW WORK PRIOR TO START OF CONSTRUCTION.

K SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.

L COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

M REFER TO ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBILITY REQUIREMENTS.

N PROVIDE CEILING ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING. MAINTAIN FIRE RATINGS WHERE REQUIRED.

O SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.

P ENTIRE COLD WATER SYSTEM IS NON-POTABLE. PROVIDE SIGNAGE AT FIXTURES, EXCEPT WATER COOLERS, STATING 'NON-POTABLE WATER DO NOT DRINK'.

SHEET INDEX

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P0.02 SCHEDULES & DETAILS - PLUMBING

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PD2.01 POOL LEVEL DEMO FLOOR PLAN - PLUMBING

P2.00 UNDERFLOOR PLAN - PLUMBING
P2.01 REC CENTER FLOOR PLAN - PLUMBING
P2.02 MAIN LEVEL FLOOR PLAN - PLUMBING

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EXPIRES: 12/31/20

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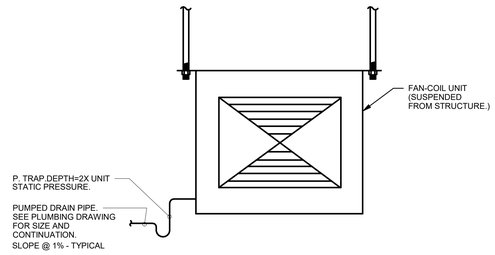
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SYMBOLS LIST AND GENERAL NOTES - PLUMBING

P0.01

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1 CONDENSATE DRAIN PIPING

NO SCALE

PLUMBING FIXTURE SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
EWC-1 & EWC-3 ⚠1	DRINKING FOUNTAIN	RECESSED, CHILLED BOTTLE FILLER, STAINLESS STEEL, SATIN FINISH, ELECTRONIC BOTTLE FILLER SENSOR. PROVIDE WITH WALL MOUNT.	ELKAY	LZWS8PK		1-1/2"	1-1/2"	1/2"	--	CHILLED BOTTLE FILLER INSTALL WITH WF-1
EWC-2	DRINKING FOUNTAIN	RECESSED, CHILLED, SINGLE BOWL, STAINLESS STEEL, SATIN FINISH, VANDAL RESISTANT BUBBLER, FRONT BUSHBUTTON. PROVIDE WITH WALL PLATE	ELKAY	LCRSP8K		1-1/2"	1-1/2"	1/2"	--	INSTALL WITH WF-1
FD-1	FLOOR DRAIN (FINISHED FLOORS / SHOWERS)	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER	JR SMITH	2005Y-A-06-P050-NB		3"*	1-1/2"*	PRIMER CONN.	--	
L-1	LAVATORY	COUNTER MOUNTED, VITREOUS CHINA, 3-HOLE PUNCH, 4-INCH CENTERS, ROUND, FRONT OVERFLOW	AMERICAN STANDARD	0491.019	FAUCET (SINGLE LEVER HANDLE): CHICAGO 420-E2805ABCP	1-1/2"	1-1/2"	1/2"	1/2"	INSTALL WITH LMV-1
L-2	LAVATORY	WALL MOUNTED, VITREOUS CHINA, 3-HOLE PUNCH, 4-INCH CENTERS, FRONT OVERFLOW	AMERICAN STANDARD	355.012	FAUCET (SINGLE LEVER HANDLE): CHICAGO 420-E2805ABCP	1-1/2"	1-1/2"	1/2"	1/2"	INSTALL WITH LMV-1
MS-1	MOP SINK	FLOOR MOUNTED, ONE PIECE MOLDED STRUCTURAL FIBERGLASS, 24-INCHES X 24-INCHES X 10-INCHES	MUSTEE	63M	FAUCET (MOP SINK): CHICAGO 540-LD897SWXFABCP (PROVIDE WITH CHICAGO GCJKABCP INTEGRAL CHECKS)	3"	2"	1/2"	1/2"	
SH-1	SHOWER	ONE PIECE, 37-1/4-INCHES X 36-INCHES X 79-1/4-INCHES, SLIP-RESISTANT TEXTURED BOTTOM	COMFORT DESIGNS	XS1363 CNTAC	SHOWER VALVE (SINGLE HANDLE, 1.5 GPM, INTEGRAL CHECKS): ZURN Z7301-SS-MT-S9	2"	1-1/2"	1/2"	1/2"	
SH-2	SHOWER	BARRIER FREE, ONE PIECE, 38-INCHES X 41-1/2-INCHES X 80-1/2-INCHES, SLIP RESISTANT TEXTURED BOTTOM, CURTAIN ROD, HORIZONTAL L-SHAPED GRAB BAR, L-SHAPED FOLD UP SEAT, 5/8-INCH THRESHOLD	COMFORT DESIGNS	XS38 BFLPAC	SHOWER VALVE (ADA, SINGLE HANDLE, HAND SHOWER, 1.6 GPM, INTEGRAL CHECKS): ZURN Z7300-SS-MT-HW-H9	2"	1-1/2"	1/2"	1/2"	PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION
UR-1	URINAL	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	AMERICAN STANDARD	6590.001	FLUSH VALVE (BATTERY - 0.125 GPF, DIAPHRAGM): SLOAN 8186-0.125	2"	1-1/2"	3/4"	--	
UR-2	URINAL	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, BARRIER FREE MOUNTING HEIGHT	AMERICAN STANDARD	6590.001	FLUSH VALVE (BATTERY - 0.125 GPF, DIAPHRAGM): SLOAN 8186-0.125	2"	1-1/2"	3/4"	--	
⚠1 WC-1	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	AMERICAN STANDARD	2257.001	FLUSH VALVE (BATTERY - 1.28 GPF, DIAPHRAGM): SLOAN 8111-1.28 SEAT (COMMERCIAL WEIGHT, HEAVY-DUTY SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGE): BEMIS 2155SSC-000	4"	2"	1"	--	
WC-2	WATER CLOSET	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, FLUSHOMETER BARRIER FREE, MOUNTING HEIGHT	AMERICAN STANDARD	2257.001	FLUSH VALVE (BATTERY - 1.28 GPF, DIAPHRAGM): SLOAN 8111-1.28 SEAT (BARRIER FREE, COMMERCIAL WEIGHT, EXTRA HEAVY-DUTY SOLID PLASTIC WITH STAINLESS STEEL CHECK HINGE): BEMIS 1655SSC-000	4"	2"	1"	--	

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

PLUMBING DEVICES SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE. ASSE 1070 COMPLIANT. INTEGRAL CHECK VALVES, LEAD FREE: WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	
WF-1	WATER FILTER	POINT-OF-USE, 2.0 GPM, 2,000 GALLON CAPACITY, SINGLE CARTRIDGE FILTER, PRESSURE GAUGE.	CUNO	AQUA PURE AP200		---	---	3/8"	---	

NOTES:

MISCELLANEOUS EQUIPMENT SCHEDULE

			BASIS OF DESIGN			GAS DATA	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	CAPACITY	INPUT (MBH)	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
EWC-1	ELECTRIC WATER COOLER						115	1	1	370	---	SEE PLUMBING FIXTURE CONNECTION SCHEDULE
EWC-2	ELECTRIC WATER COOLER						115	1	---	370	---	SEE PLUMBING FIXTURE CONNECTION SCHEDULE

NOTES:

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	Addendum 1	5/20/19

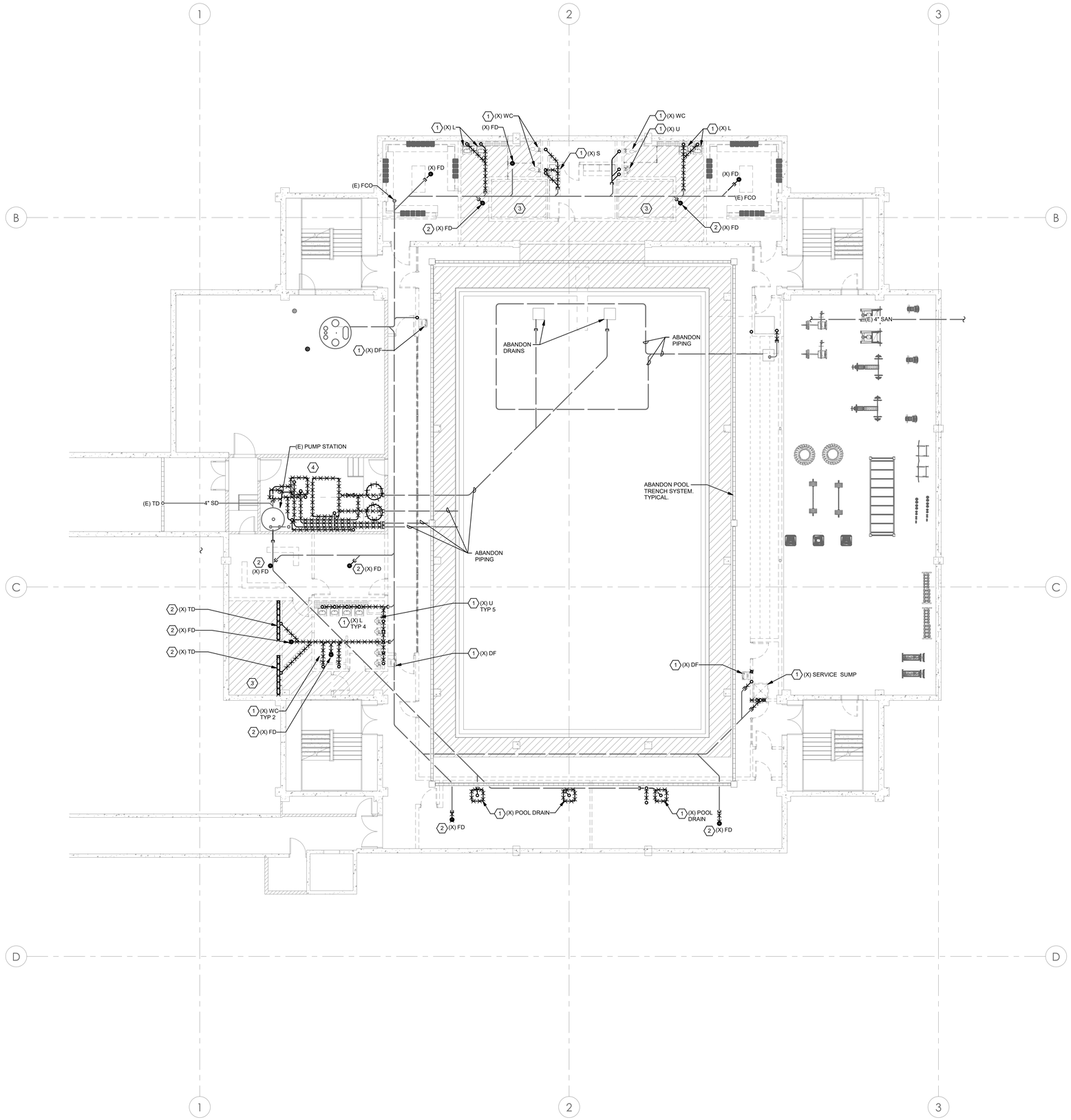
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SCHEDULES & DETAILS - PLUMBING

P0.02

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1 UNDERFLOOR DEMO PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. EXISTING FIXTURE TO BE REMOVED. CAP WASTE PIPING BELOW FLOOR OR IN WALL AND ABANDON. DEMO WATER AND VENT PIPING BACK TO MAIN AND CAP, AND/OR AS SHOWN ON DRAWINGS.
2. EXISTING FIXTURE TO BE REMOVED. CAP WASTE PIPING BELOW FLOOR IN WALL AND ABANDON.
3. REMOVE SHOWER ASSEMBLY FIXTURES AND ALL APPURTENANCES. DEMO WATER PIPING BACK TO MAIN AND CAP AND/OR AS SHOWN ON DRAWINGS.
4. REMOVE POOL SYSTEM PIPING AND EQUIPMENT.

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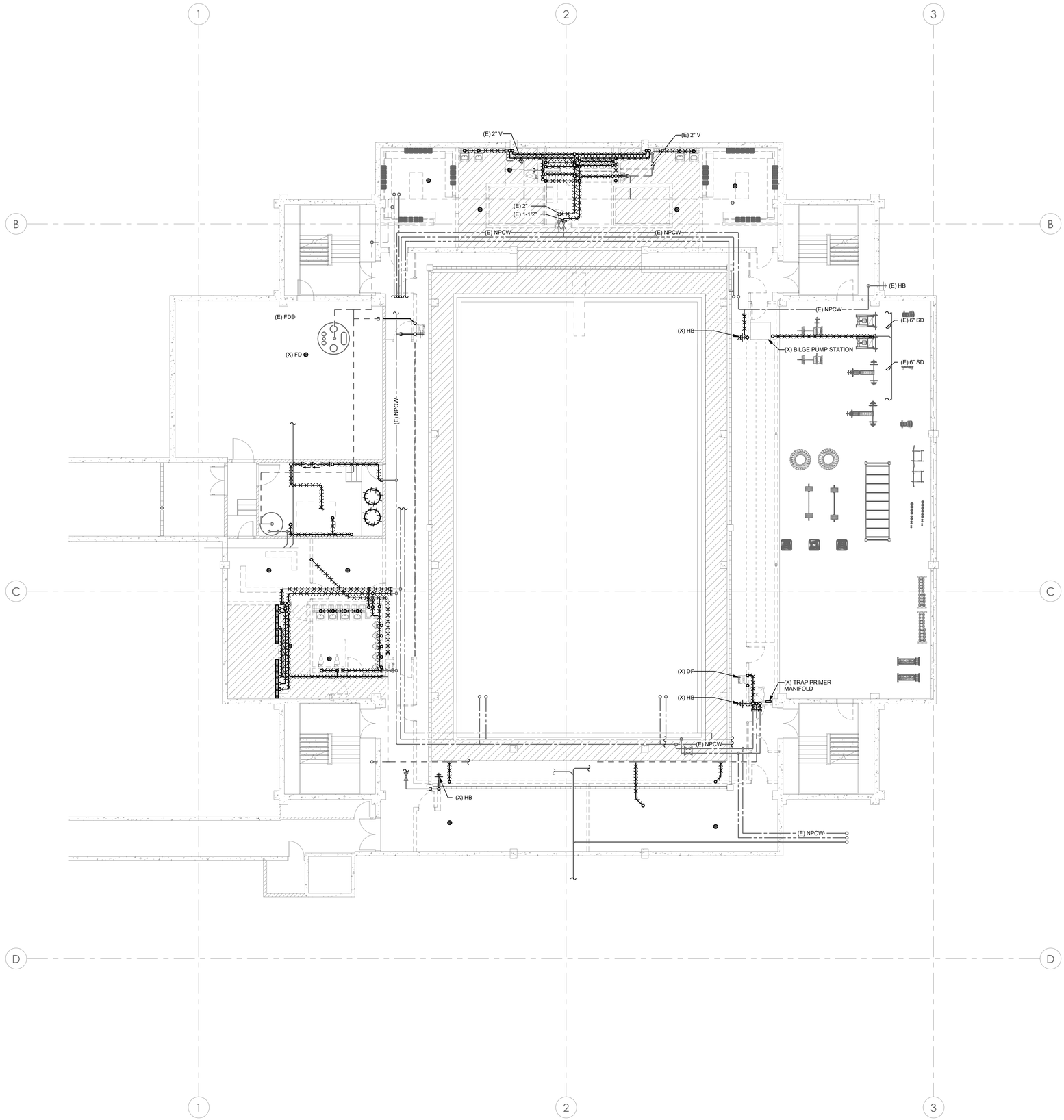
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UNDERFLOOR DEMO PLAN - PLUMBING

PD2.00

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1 POOL LEVEL DEMO FLOOR PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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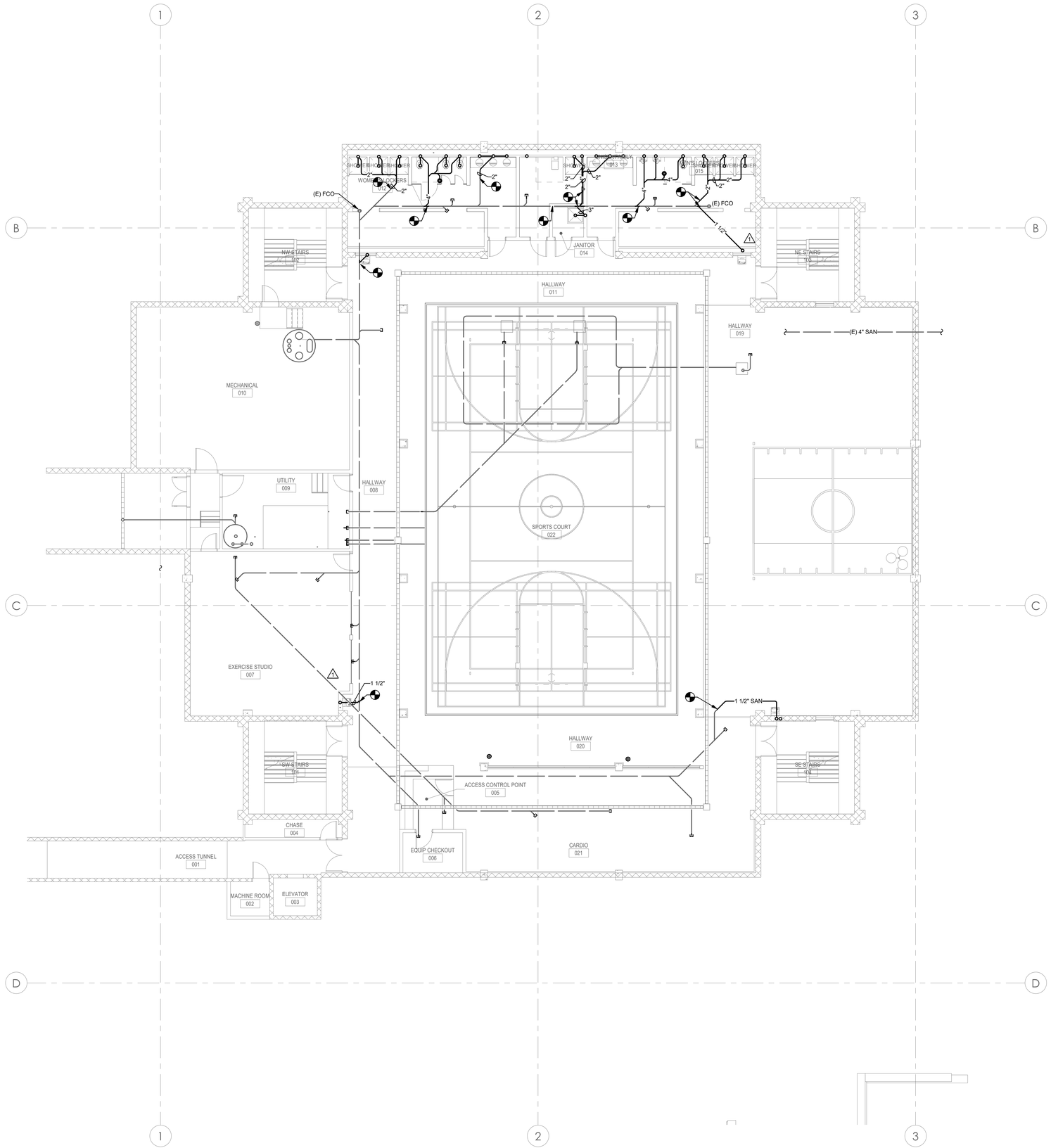
CONFORMANCE

POOL LEVEL DEMO FLOOR PLAN - PLUMBING

PD2.01

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1 UNDERFLOOR PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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No.	Description	Date
	Addendum 1	5/20/19

Project Number 1820
Date 8.13.2019

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UNDERFLOOR PLAN - PLUMBING

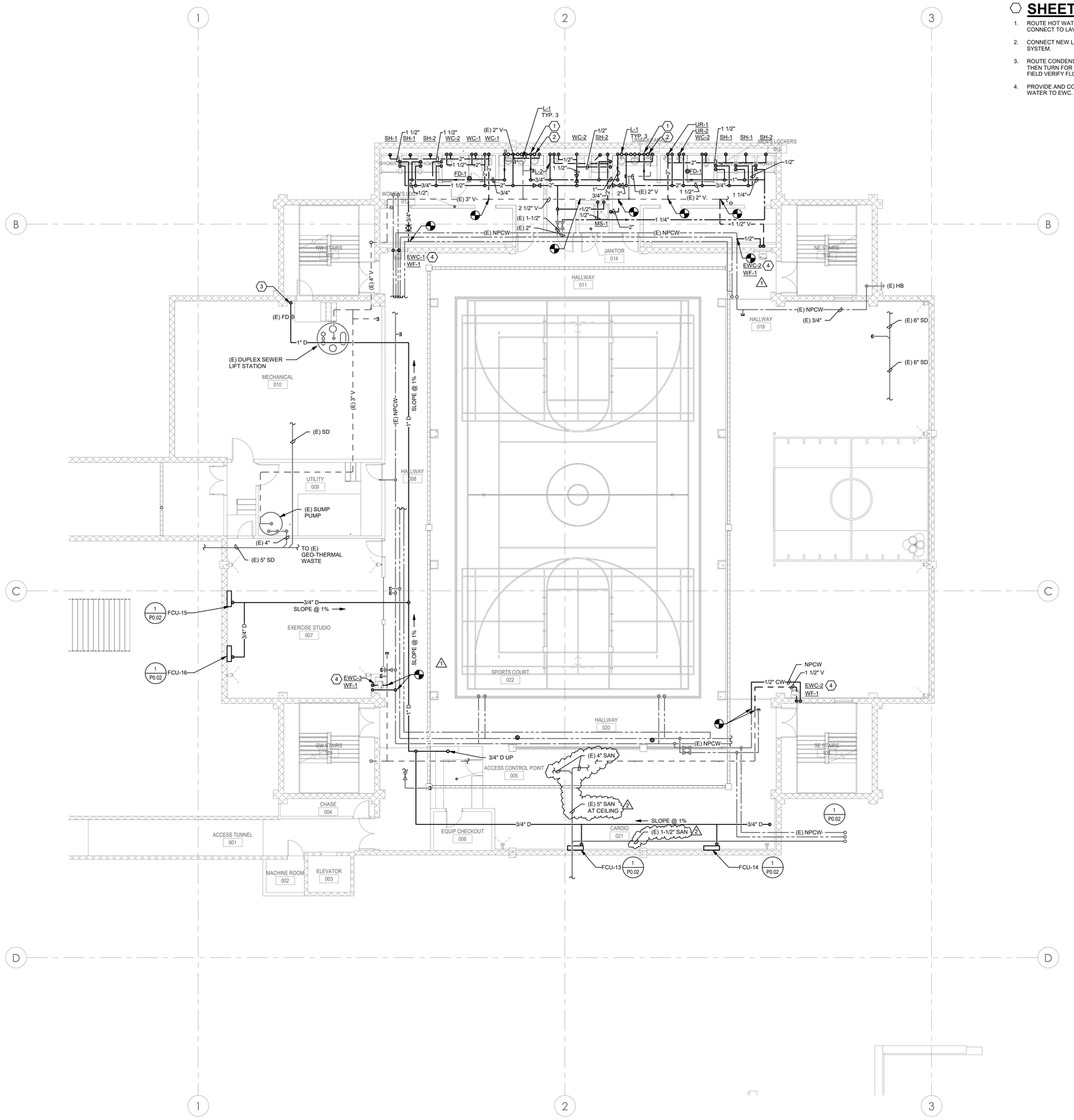
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SHEET KEYNOTES

1. ROUTE HOT WATER DOWN IN WALL. HEADER IN WALL. CONNECT TO LAVATORIES THEN ROUTE UP TO CEILING.
2. CONNECT NEW LAVATORY VENTS TO EXISTING VENT SYSTEM.
3. ROUTE CONDENSATE DOWN AT WALL. JUST ABOVE FLOOR, THEN TURN FOR DISCHARGE TO EXISTING FLOOR DRAIN. FIELD VERIFY FLOOR DRAIN LOCATION PRIOR TO INSTALL.
4. PROVIDE AND CONNECT NEW 1-1/2" V AND 1/2" COLD WATER TO EWC.



1 REC CENTER FLOOR PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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	Addendum 1	5/20/19
	APR 01	6/10/19

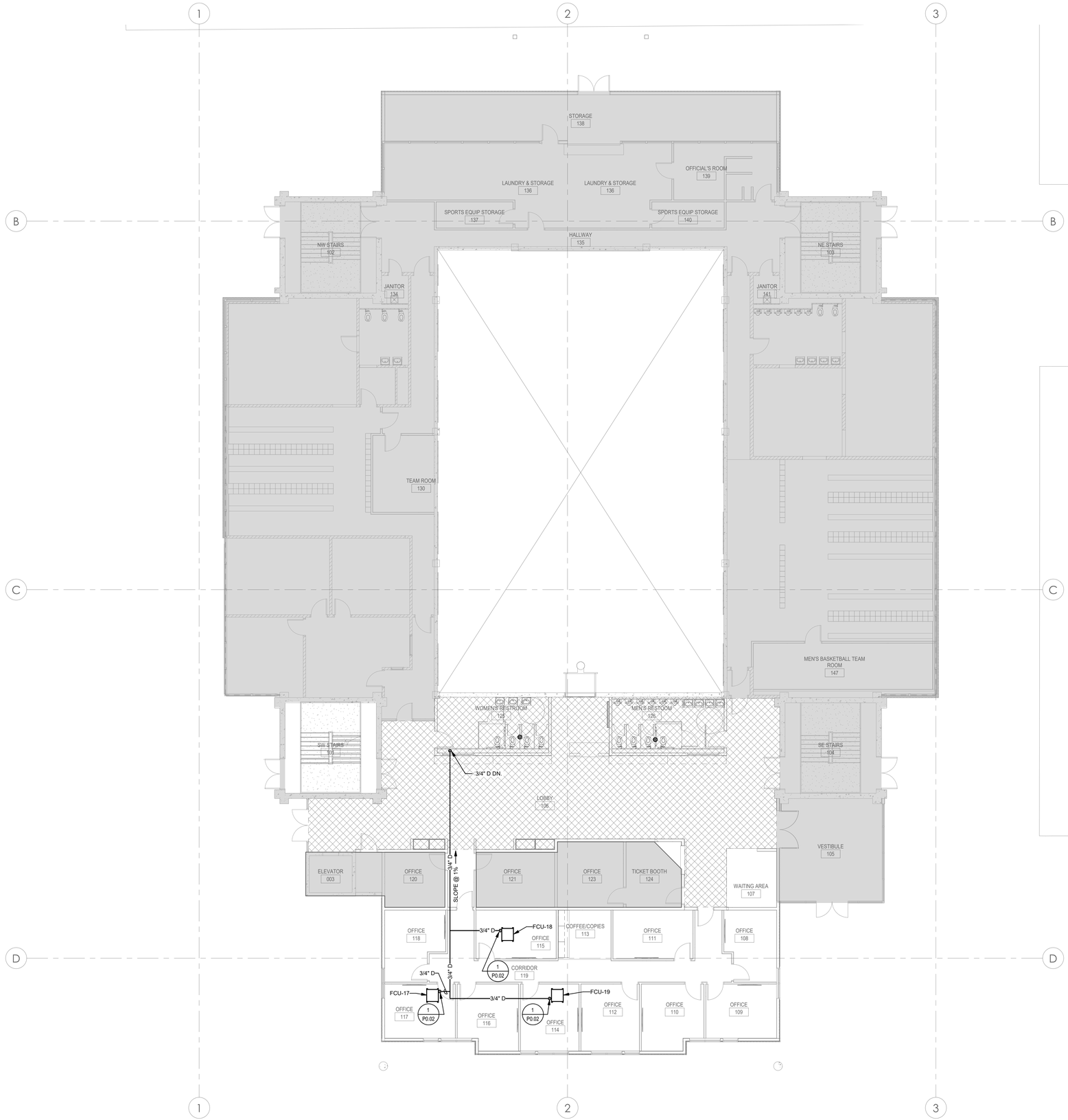
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CONFORMANCE

REC CENTER FLOOR PLAN - PLUMBING

P2.01

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1 MAIN LEVEL FLOOR PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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Project Number 1820
Date 8.13.2019

CONFORMANCE

MAIN LEVEL FLOOR PLAN - PLUMBING

P2.02

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ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ARF	ABOVE RAISED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AV	AUDIO VISUAL
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
CB	CIRCUIT BREAKER
C	CONDUIT, CLOSE, CONTROL
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NON-METALLIC TUBING
ESD	ELECTROSTATIC DISCHARGE
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FMS	FACILITY MANAGEMENT SYSTEMS
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GE	GROUNDING EQUALIZER
HH	HANDHOLE
HT	HEIGHT
HC	HORIZONTAL CROSS CONNECT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MHz	MEGAHERTZ
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
M	MOTOR
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
MDU	MULIT-DWELLING UNIT
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OSP	OUTSIDE PLANT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SPKR	SPEAKER
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TP	TRANSITION POINT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VRFY	VERIFY
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W	WIRE, WHITE
W/	WITH
W/O	WITHOUT
WAO	WORK AREA OUTLET

Connections / Equipment

- VFD — COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH
- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- C — CONTACTOR COIL
- F — HEAVY DUTY FUSED DISCONNECT SWITCH
- J OR J — JUNCTION BOX
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- R — RELAY
- DR — REMOTE DRIVER FOR LED LUMINAIRES
- T — TRANSFORMER
- FSD — FIRE SMOKE DAMPER
- SD — SMOKE DAMPER
- WALL-MOUNTED JUNCTION BOX

Fire Alarm

- RT — REMOTE TEST SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- NAC — NOTIFICATION APPLIANCE CIRCUIT PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X LOCATION — EQUIPMENT IDENTIFICATION
- XX — FOOD SERVICE EQUIPMENT / CALCULATION TAG
- 1 — KEYED NOTE
- POINT OF CONNECTION
- X / XXX — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- COMBINATION EXIT SIGN CEILING MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S) INDICATES DIRECTION IF SHOWN
- COMBINATION EXIT SIGN WALL MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S) INDICATES DIRECTION IF SHOWN
- EMERGENCY LUMINAIRE WITH BATTERY PACK
- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 1' X 4' LUMINAIRE
- RECESSED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 1' X 4' LUMINAIRE ON CRITICAL POWER
- RECESSED 2' X 2' LUMINAIRE
- RECESSED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 2' LUMINAIRE ON CRITICAL POWER
- RECESSED 2' X 4' LUMINAIRE
- RECESSED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 4' LUMINAIRE ON CRITICAL POWER
- RECESSED 2' X 4' LUMINAIRE WITH CENTER LAMP CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
- RECESSED LUMINAIRE ON CRITICAL POWER
- SURFACE MOUNTED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE MOUNTED 2' X 2' LUMINAIRE ON CRITICAL POWER
- SURFACE MOUNTED 2' X 4' LUMINAIRE
- SURFACE MOUNTED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE MOUNTED 2' X 4' LUMINAIRE ON CRITICAL POWER
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE OR PENDANT MOUNTED 1' X 4' LUMINAIRE ON CRITICAL POWER
- SURFACE OR PENDANT MOUNTED 1' X 8' LUMINAIRE
- SURFACE OR PENDANT MOUNTED 6" X 8' LUMINAIRE
- SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- SURFACE OR PENDANT MOUNTED LUMINAIRE ON CRITICAL POWER
- SURFACE OR PENDANT MOUNTED STRIPLIGHT
- WALL MOUNTED 6" WIDE LUMINAIRE
- WALL MOUNTED 6" WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- WALL MOUNTED 6" WIDE LUMINAIRE ON CRITICAL POWER
- WALL MOUNTED 12" WIDE LUMINAIRE
- WALL MOUNTED 12" WIDE LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- WALL MOUNTED 12" WIDE LUMINAIRE ON CRITICAL POWER
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- WALL MOUNTED LUMINAIRE ON CRITICAL POWER
- AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE. NUMBER OF HEADS AND CONFIGURATION INDICATED ON PLANS.

Miscellaneous

- #10 / B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR
- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- GROUNDING POINT
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
- M — METER WITH CONNECTION
- PP — POWER UTILITY POLE
- SUBGRADE VAULT CATV
- SUBGRADE VAULT POWER
- SUBGRADE VAULT TELEPHONE
- SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
- TP — TELEPHONE UTILITY POLE
- UTILITY TRANSFORMER PAD/VAULT

Raceways

- EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE
- EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE
- —OP— OVERHEAD PRIMARY SERVICE
- —OT— OVERHEAD TELEPHONE SERVICE
- —C— UNDERGROUND CABLE TELEVISION SERVICE
- —P— UNDERGROUND PRIMARY SERVICE
- —S— UNDERGROUND SECONDARY SERVICE
- —T— UNDERGROUND TELEPHONE SERVICE
- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT

Switches and Receptacles

- COMBINATION COMMUNICATIONS OUTLET AND DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- COMBINATION COMMUNICATIONS OUTLET AND DUPLEX RECEPTACLE, FLUSH FLOOR
- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- SINGLE RECEPTACLE, FLUSH FLOOR
- SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- EQUIPMENT ELECTRICAL CONNECTION
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- PENDANT RECEPTACLE WITH CORD GRIPS. VERIFY PENDANT LENGTH. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
- SURFACE METAL RECEPTACLE RACEWAY
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- $ — SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

Telecommunications

- RACEWAY ONLY DATA/TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING
  F = FLUSH CEILING MOUNTED
  R = SURFACE MOUNTED ON RACEWAY
- RACEWAY ONLY TELEPHONE OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 3/4" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.

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SYMBOLS LIST AND GENERAL NOTES - ELECTRICAL

E0.01

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LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/ POWER SUPPLY	LIGHT SOURCE	INPUT WATTS	MFG/CATALOG #	NOTES
CL	ADJUSTABLE LED COVE LUMINAIRE WITH ASYMMETRIC INDIRECT DISTRIBUTION	NOMINAL 3-INCH WIDE BY 2.4-INCH HIGH STEEL IN LENGTHS AS SHOWN ON DRAWINGS	SOFT GLOW LENS LENS	COVE	MATTE WHITE		INTEGRAL 0-10 DIMMING DRIVER.	LED, NOMINAL 1000 LUMENS PER FOOT, 4000K, 80+ CRI	8.1 WATTS PER FOOT	LITECONTROL SAE 201, OR APPROVED	
D1	RECESSED LED DOWNLIGHT WITH NARROW DISTRIBUTION	NOMINAL 6-INCH DIAMETER BY 4.5-INCH HIGH DIE-CAST ALUMINUM	CLEAR SEMI-SPECULAR	RECESSED	AS SELECTED BY ARCHITECT		ELECTRONIC DIMMING DRIVER	LED, NOMINAL 3000 LUMENS, 4000K, 80+ CRI	26.9 WATTS	HE WILLIAMS 6DR SERIES , PORTFOLIO, KURT VERSEN, GOTHAM, PEACHTREE, OR APPROVED	2
DW	RECESSED WET LOCATION LED DOWNLIGHT WITH MEDIUM DISTRIBUTION	NOMINAL 9-INCH DIAMETER BY 13.5-INCH HIGH ALUMINUM	CLEAR SEMI-SPECULAR	RECESSED	WHITE	WET	ELECTRONIC DIMMING DRIVER	LED, NOMINAL 3000 LUMENS, 4000K, 80+ CRI	26.9 WATTS	HE WILLIAMS 6DR SERIES , PORTFOLIO, KURT VERSEN, GOTHAM, PEACHTREE, OR APPROVED	PROVIDE WET LOCATION TRIM
H	SURFACE/SUSPENDED MOUNTED LED STRIPLIGHT	NOMINAL 4-FOOT COLD ROLLED STEEL CHANNEL	ACRYLIC LENS	SURFACE OR CHAIN HUNG	WHITE		ELECTRONIC DIMMING DRIVER	NOMINAL5000 LUMENS, 3500K, 80 CRI	42 WATTS	CREE LS4 SERIES, LITHONIA, METALUX, DAYBRITE, COLUMBIA, LIGHTOLIER, HE WILLIAMS OR APPROVED	
HB	LED HIGH BAY PENDANT WITH WIDE DISTRIBUTION	NOMINAL 21-INCH DIAMETER BY 19-INCH TALL CAST ALUMINUM	FROSTED ACRYLIC LENS	PENDANT, COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWING	WHITE		INTEGRAL ELECTRONIC DIMMING DRIVER	NOMINAL 24,000 LUMENS, 4000K, 70+ CRI	170 WATTS	HOLOPHANE PHZ SERIES, H.E. WILLIAMS OR APPROVED	PROVIDE WITH 6-FOOT CORD, PLUG, AND WIREGUARD, DIMMING SETTINGS TO BE FIELD ADJUSTABLE
J	WALL MOUNTED LINEAR DIRECT-INDIRECT LED LUMINAIRE	NOMINAL 5-INCH HIGH BY 2.625-INCH WIDE IN LENGTHS AS SHOWN ON DRAWINGS EXTRUDED ALUMINUM	40/60 RATIO: ASYMMETRICAL ROOM WASH	COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS	AS SELECTED BY ARCHITECT		ELECTRONIC DIMMING DRIVER	LED, NOMINAL 1200 LUMENS PER FOOT, 3500K, 80 CRI	13 WATTS PER FOOT	LUMATO B25-WALL SERIES, LITECONTROL, FINELITE, FOCAL POINT, ZUMTOBEL OR APPROVED	1
P4	PENDANT MOUNTED DIRECT/INDIRECT RECTANGLE LINEAR LED WITH 40 PERCENT DIRECT, 60 PERCENT INDIRECT DISTRIBUTION	NOMINAL 7-INCH WIDE BY 2-INCH HIGH BY 4-FOOT LONG STEEL	DIFFUSED ACRYLIC LENS	SUSPENDED WITH AIRCRAFT CABLE AND WHITE CORD FEED, 10-FEET AFF	AS SELECTED BY ARCHITECT		ELECTRONIC	LED, NOMINAL 800 LUMENS PER FOOT, 4000K, 80+ CRI	45 WATTS	LITECONTROL SAE104 SERIES, GAMMALUX, LITECONTROL, FOCAL POINT, OR APPROVED	
S1	SURFACE LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 1-FOOT BY 4-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 2580 LUMENS, 4000K, 80+ CRI	19 WATTS	HE WILLIAMS PTS SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	
S2	SURFACE LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 2-FOOT BY 2-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 1600 LUMENS, 4000K, 80+ CRI	13 WATTS	HE WILLIAMS PTS SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	
S4	SURFACE LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 2-FOOT BY 4-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 3260 LUMENS, 4000K, 80+ CRI	28 WATTS	HE WILLIAMS PTS SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	
S6	SURFACE LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 1-FOOT BY 6-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 2580 LUMENS, 4000K, 80+ CRI	28 WATTS	HE WILLIAMS PTS SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	
R1	RECESSED LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 1-FOOT BY 4-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 2580 LUMENS, 4000K, 80+ CRI	19 WATTS	COLUMBIA LCAT SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	CENTER BASKET TO BE EVEN WITH THE CEILING PLANE
R2	RECESSED LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 2-FOOT BY 2-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 3260 LUMENS, 4000K, 80+ CRI	28 WATTS	COLUMBIA LCAT SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	CENTER BASKET TO BE EVEN WITH THE CEILING PLANE
R4	RECESSED LED CENTRAL BASKET VOLUMETRIC TROFFER	NOMINAL 2-FOOT BY 4-FOOT COLD ROLLED STEEL	CURVED ACRYLIC LENS		WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 3260 LUMENS, 4000K, 80+ CRI	28 WATTS	COLUMBIA LCAT SERIES, LITHONIA, LIGHTOLIER, METALUX, DAYBRITE, LITECONTROL, HE WILLIAMS, OR APPROVED	CENTER BASKET TO BE EVEN WITH THE CEILING PLANE
RL	RECESSED NARROW APERTURE PERIMETER WALL SLOT LED WITH HIGH REFLECTANCE WHITE REFLECTOR	NOMINAL 4-INCH APERTURE STEEL IN LENGTHS AS SHOWN ON DRAWINGS	DIFFUSE ACRYLIC LENS	RECESSED	WHITE		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 700 LUMENS PER FOOT, 4000K, 80+ CRI	10 WATTS PER FOOT	HE WILLIAMS PX SERIES, GAMMALUX, PINNACLE, OR APPROVED	
RW	RECESSED LED FLAT PANEL	NOMINAL 2-FOOT BY 2-FOOT EXTRUDED ALUMIMUM	ACRYLIC LENS	RECESSED	WHITE	DAMP	INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 4100 LUMENS, 4000K, 80+ CRI	40 WATTS	COLUMBIA CFP OR APPROVED	
SW2	LED WALL MOUNTED INDIRECT/DIRECT WITH ASYMMETRIC DISTRIBUTION LUMINAIRE	NOMINAL 2-INCH WIDE BY 2-FOOT LONG DIE-FORMED STEEL	DIFFUSE ACRYLIC LENS		AS SELECTED BY ARCHITECT		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 50 LUMENS PER FOOT INDIRECT, 100 LUMENS PER FOOT DIRECT, 4000K, 80+ CRI	18 WATTS PER FOOT	LITECONTROL MOD2 SERIES OR APPROVED	COORDINATE MOUNTING
SW6	LED WALL MOUNTED INDIRECT/DIRECT WITH ASYMMETRIC DISTRIBUTION LUMINAIRE	NOMINAL 2-INCH WIDE BY 6-FOOT LONG DIE-FORMED STEEL	DIFFUSE ACRYLIC LENS		AS SELECTED BY ARCHITECT		INTEGRAL 0-10V DIMMING DRIVER	LED, NOMINAL 50 LUMENS PER FOOT INDIRECT, 100 LUMENS PER FOOT DIRECT, 4000K, 80+ CRI	18 WATTS PER FOOT	LITECONTROL MOD2 SERIES OR APPROVED	COORDINATE MOUNTING
TC	LINEAR LED TAPE LIGHT	EXTRUDED ALUMINUM CORNER MOUNTING CHANNEL AT LENGTHS SHOWN ON DRAWINGS	FROSTED LENS LENS	SURFACE	WHITE		REMOTE DRIVER, 96W	LED, NOMINAL440 LUMENS / FOOT, 4100K, 90+ CRI	3.3 WATTS PER FOOT	KELVIX DIRECT VIEW 400, OR APPROVED	COORDINATE MOUNTING WITH ARCHITECTURAL DRAWINGS
X	UNIVERSAL MOUNTED THIN PROFILE EXIT SIGN	NOMINAL 12-INCH WIDE BY 8.5-INCH HALF-SPHERE DIE-CAST ALUMINUM HOUSING. CONTRACTOR TO VERIFY BACKBOX REQUIREMENTS DURING ROUGH-IN.		COORDINATE MOUNT WITH ARCHITECTURAL DRAWINGS	BRUSHED ALUMINUM		RED LED		NOMINAL 2 WATTS	DUAL-LITE SE SERIES, EVENLITE, ISOLITE, PATHWAY, SURE-LITES TFX ON APPROVED	DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS

NOTES:

1	THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2	DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3	PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.
4	COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
5	SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
6	PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND BALLAST/DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
7	REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

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JUNE 5, 2009
THANH T. PHUONG
EXPIRES: 12/31/20

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No.	Description	Date
	Addendum 1	5/20/19
	APR 01	6/10/19

Project Number 1820
Date 8.13.2019

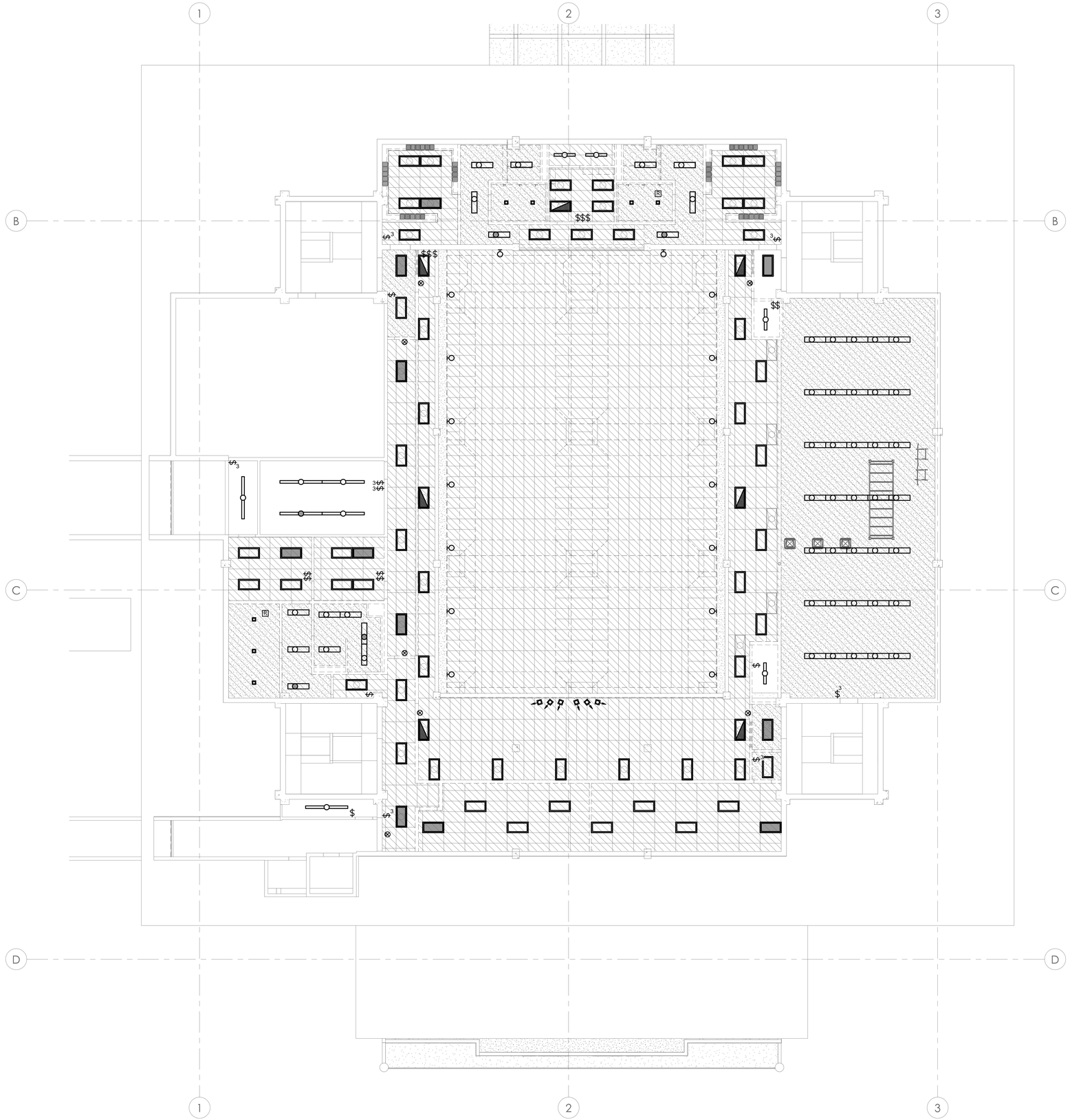
CONFORMANCE

LUMINAIRE SCHEDULE
- LIGHITNG

E0.02

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1 POOL LEVEL DEMO FLOOR PLAN - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"

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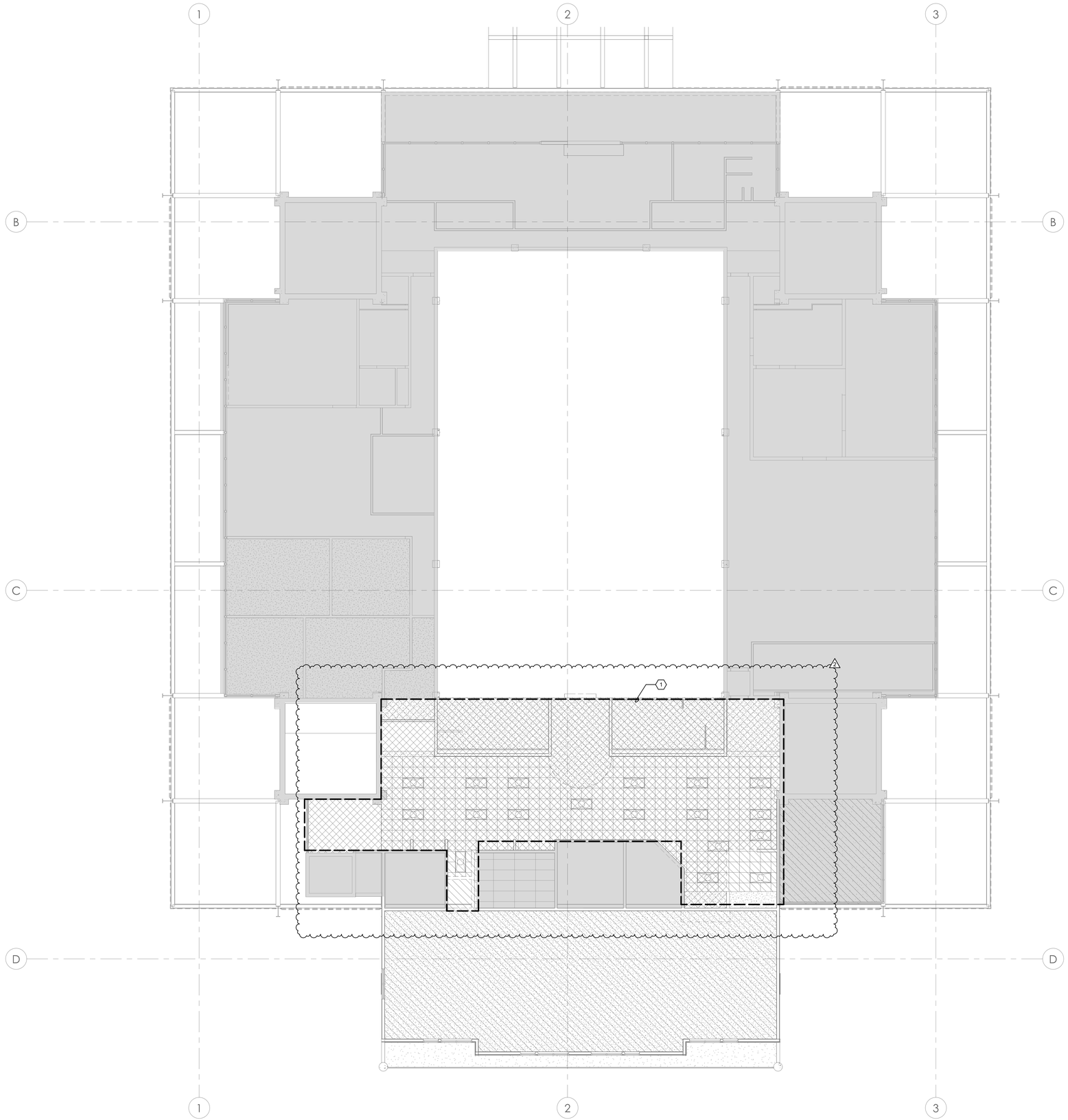
CONFORMANCE

POOL LEVEL DEMO FLOOR PLAN - LIGHTING

ED2.01

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GENERAL SHEET NOTES

A. MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING TO REMAIN LUMINAIRES.

SHEET KEYNOTES

1. REMOVE LUMINAIRE AND LIGHTING CONTROLS IN SPACE. PULL CIRCUIT BACK TO UPSTREAM JUNCTION BOX. PROTECT CIRCUITS FOR CONNECTION TO NEW LUMINAIRES.

1 MAIN LEVEL DEMO PLAN - LIGHTING

0' 4' 8' 16'
1/8" = 1'-0"

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No.	Description	Date
	APR 01	6/10/19

Project Number 1820
Date 8.13.2019

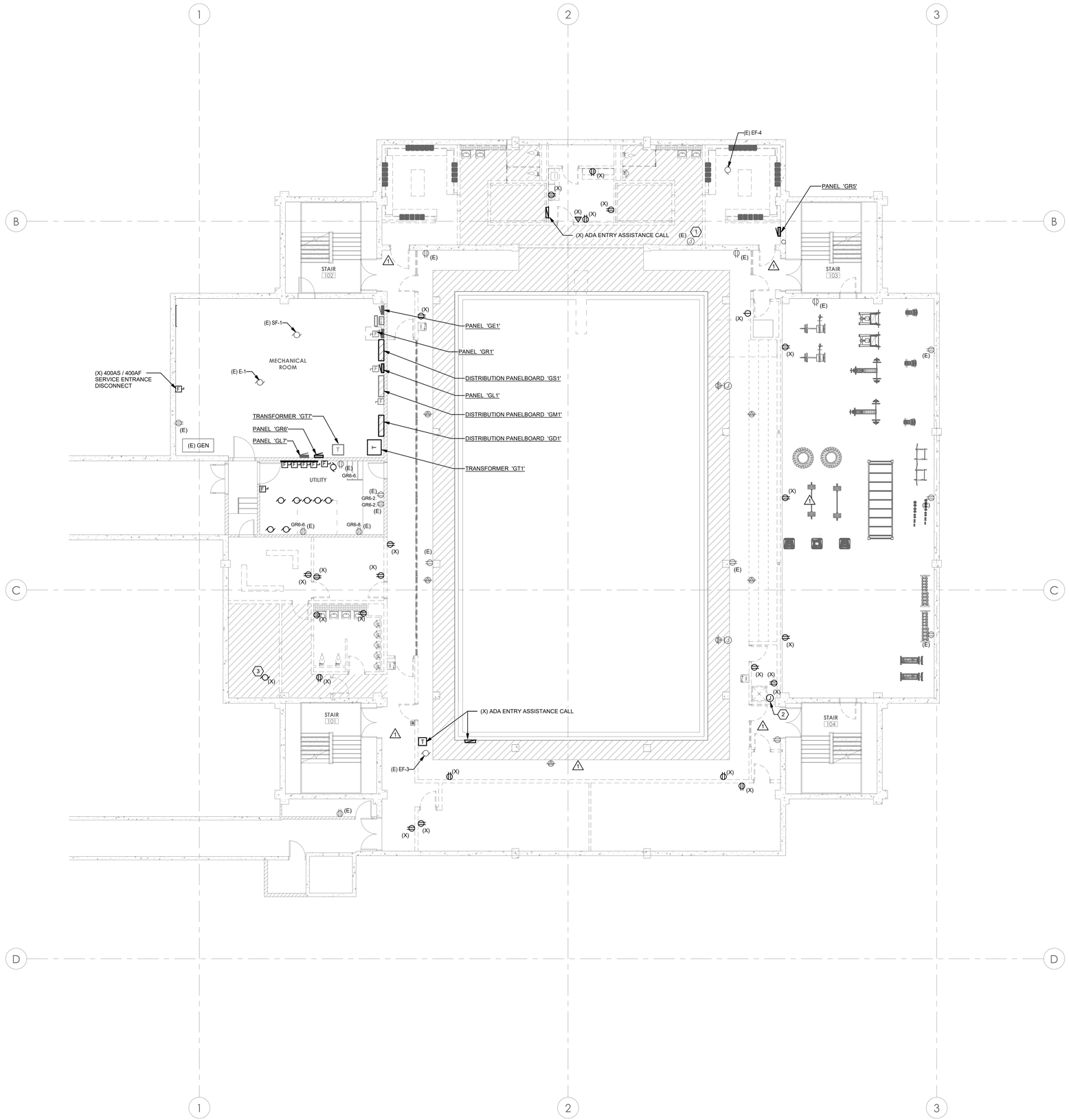
CONFORMANCE

MAIN LEVEL DEMO PLAN - LIGHTING

ED2.02

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SHEET KEYNOTES

1. EXISTING MUSIC SYSTEM.
2. TRAP PRIMER.
3. CIRCULATION PUMP.

1 POOL LEVEL DEMO FLOOR PLAN - POWER/SIGNAL

0' 4' 8' 16'

1/8" = 1'-0"

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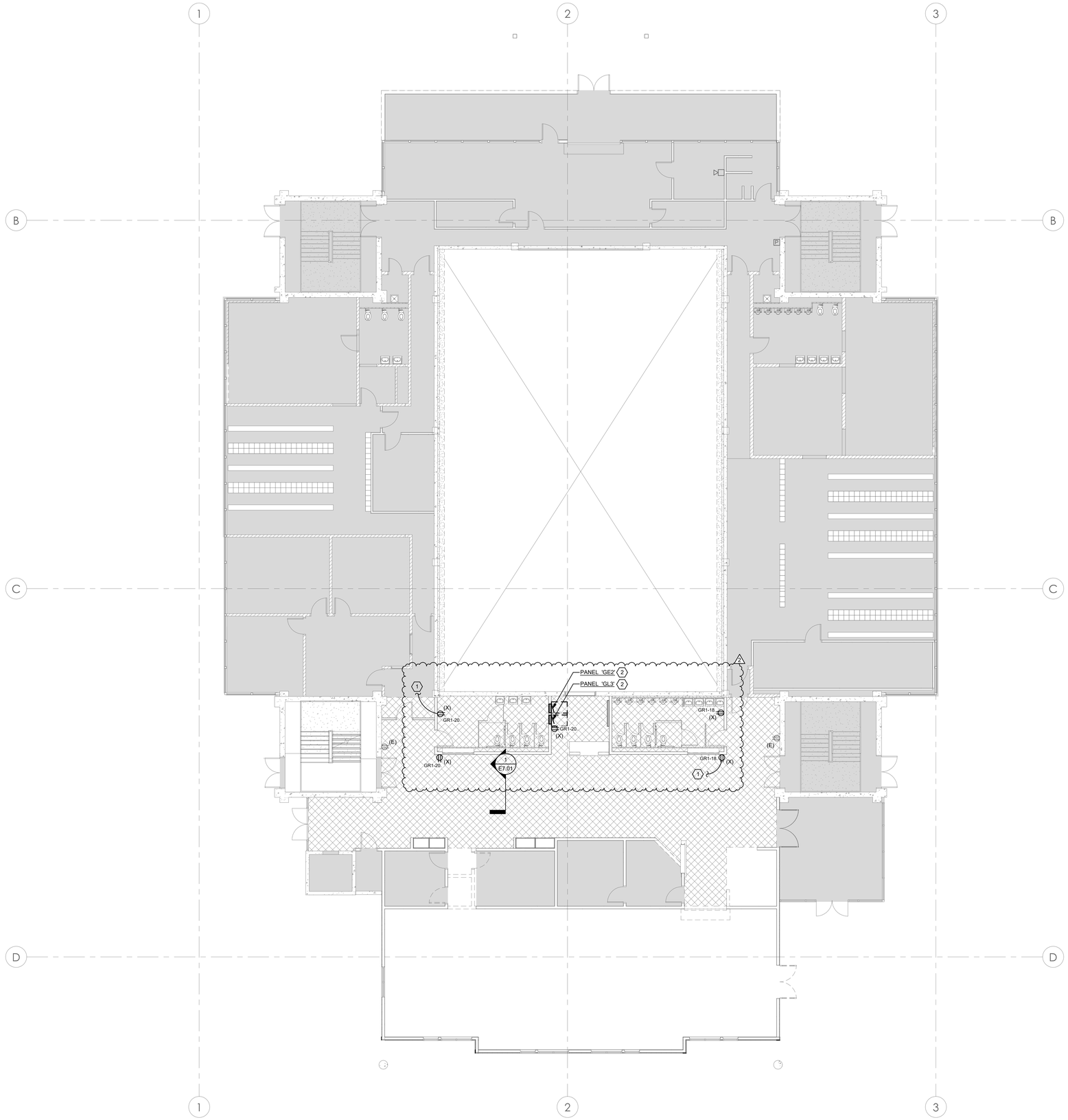
CONFORMANCE

POOL LEVEL DEMO FLOOR PLAN - POWER/SIGNAL

ED3.01

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1 MAIN LEVEL DEMO PLAN - POWER/SIGNAL

0' 4' 8' 16'

1/8" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING TO REMAIN DEVICES.

SHEET KEYNOTES

1. PULL CIRCUIT FEEDING DEMO RECEPTACLES BACK TO NEXT JUNCTION BOX OUTSIDE OF AREA OF WORK AND PROTECT TO EXTENTION TO NEW RECEPTACLES.
2. PANEL TO BE DEMOLISHED.
   BASE BID: PULL BRANCH CIRCUITS OUTSIDE AREA OF DEMOLITION AND PROTECT FOR RECONNECTION TO NEW PANEL. PULL FEEDER BACK TO SOURCE, PROTECT RACEWAY FOR REUSE.
   BID ALTERNATE: PULL BRANCH CIRCUITS OUTSIDE AREA OF DEMOLITION AND PROTECT FOR RECONNECTION TO NEW PANEL. PULL EXISTING FEEDER OUTSIDE AREA OF DEMOLITION FOR EXTENTION AND RECONNECTION TO NEW PANEL.

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CONFORMANCE

MAIN LEVEL DEMO PLAN - POWER/SIGNAL

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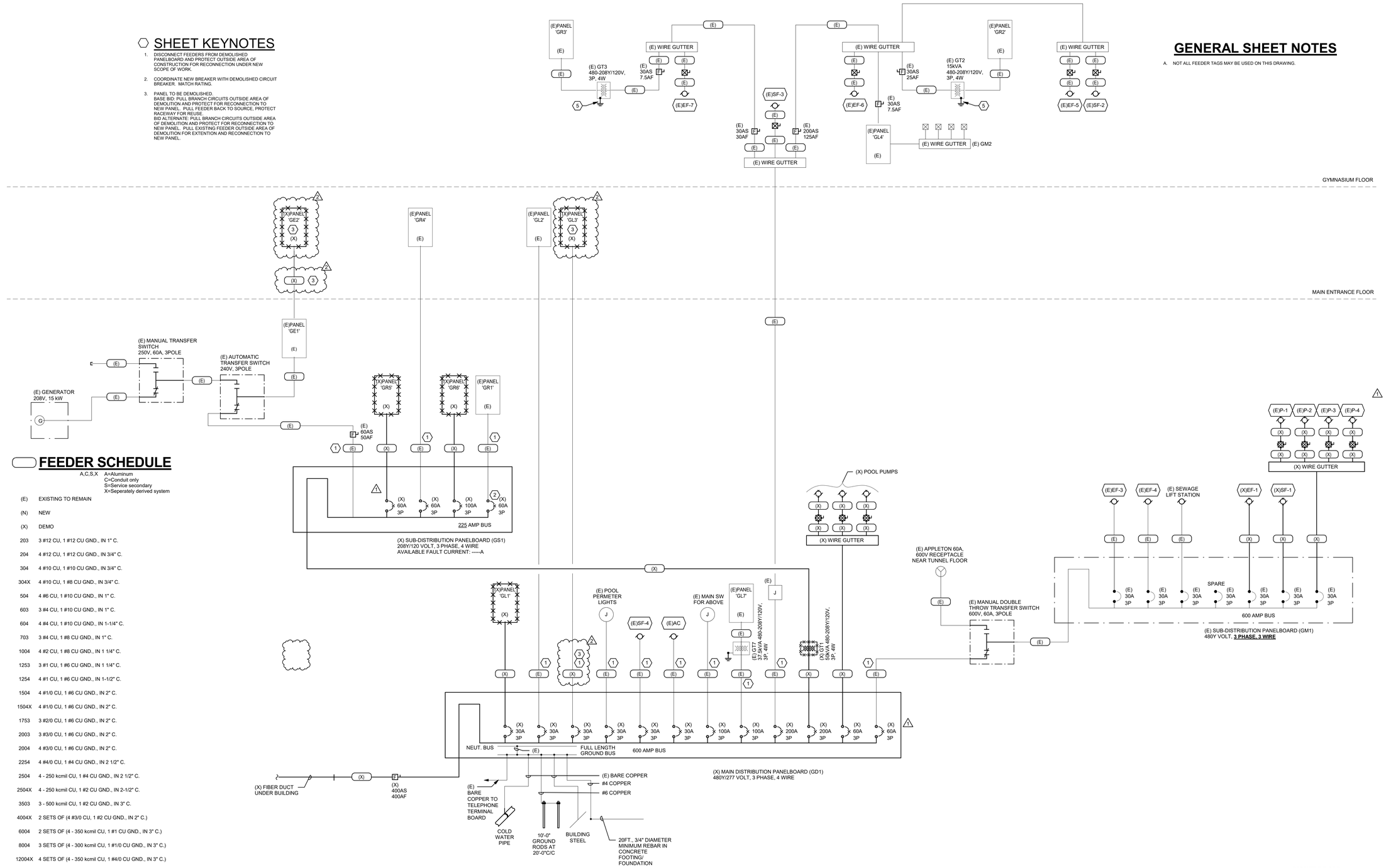
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SHEET KEYNOTES

1. DISCONNECT FEEDERS FROM DEMOLISHED PANELBOARD AND PROTECT OUTSIDE AREA OF CONSTRUCTION FOR RECONNECTION UNDER NEW SCOPE OF WORK.
2. COORDINATE NEW BREAKER WITH DEMOLISHED CIRCUIT BREAKER. MATCH RATING.
3. PANEL TO BE DEMOLISHED.
   BASE BID: PULL BRANCH CIRCUITS OUTSIDE AREA OF DEMOLITION AND PROTECT FOR RECONNECTION TO NEW PANEL. PULL FEEDER BACK TO SOURCE. PROTECT RACEWAY FOR REUSE.
   BID ALTERNATE: PULL BRANCH CIRCUITS OUTSIDE AREA OF DEMOLITION AND PROTECT FOR RECONNECTION TO NEW PANEL. PULL EXISTING FEEDER OUTSIDE AREA OF DEMOLITION FOR EXTENTION AND RECONNECTION TO NEW PANEL.

GENERAL SHEET NOTES

A. NOT ALL FEEDER TAGS MAY BE USED ON THIS DRAWING.



FEEDER SCHEDULE

A,C,S,X A=Aluminum
C=Conduit only
S=Service secondary
X=Seperately derived system

(E)	EXISTING TO REMAIN
(N)	NEW
(X)	DEMO
203	3 #12 CU, 1 #12 CU GND., IN 1" C.
204	4 #12 CU, 1 #12 CU GND., IN 3/4" C.
304	4 #10 CU, 1 #10 CU GND., IN 3/4" C.
304X	4 #10 CU, 1 #8 CU GND., IN 3/4" C.
504	4 #6 CU, 1 #10 CU GND., IN 1" C.
603	3 #4 CU, 1 #10 CU GND., IN 1" C.
604	4 #4 CU, 1 #10 CU GND., IN 1-1/4" C.
703	3 #4 CU, 1 #8 CU GND., IN 1" C.
1004	4 #2 CU, 1 #8 CU GND., IN 1 1/4" C.
1253	3 #1 CU, 1 #6 CU GND., IN 1 1/4" C.
1254	4 #1 CU, 1 #6 CU GND., IN 1-1/2" C.
1504	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
1504X	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
1753	3 #2/0 CU, 1 #6 CU GND., IN 2" C.
2003	3 #3/0 CU, 1 #6 CU GND., IN 2" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2 1/2" C.
2504	4 - 250 kcmil CU, 1 #4 CU GND., IN 2 1/2" C.
2504X	4 - 250 kcmil CU, 1 #2 CU GND., IN 2-1/2" C.
3503	3 - 500 kcmil CU, 1 #2 CU GND., IN 3" C.
4004X	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
6004	2 SETS OF (4 - 350 kcmil CU, 1 #1 CU GND., IN 3" C.)
8004	3 SETS OF (4 - 300 kcmil CU, 1 #1/0 CU GND., IN 3" C.)
12004X	4 SETS OF (4 - 350 kcmil CU, 1 #4/0 CU GND., IN 3" C.)

1 ONE-LINE POWER DIAGRAM - DEMO

NO SCALE

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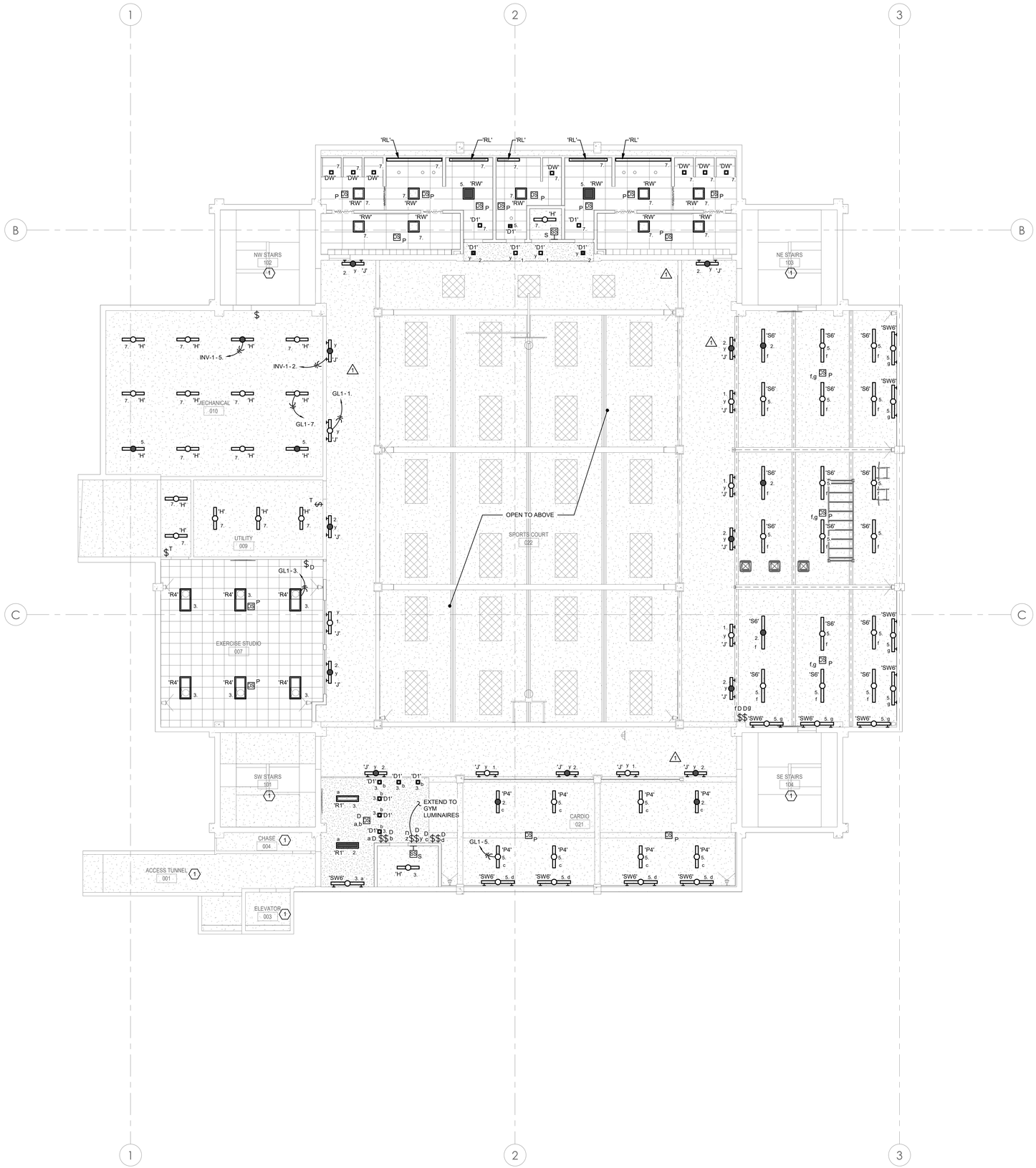
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ONE-LINE DIAGRAM - DEMO

ED5.01

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1 REC CENTER FLOOR PLAN - LIGHTING

0 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. SPACE N.I.C. MAINTAIN CIRCUIT CONTINUITY OF EXISTING CONNECTIONS.

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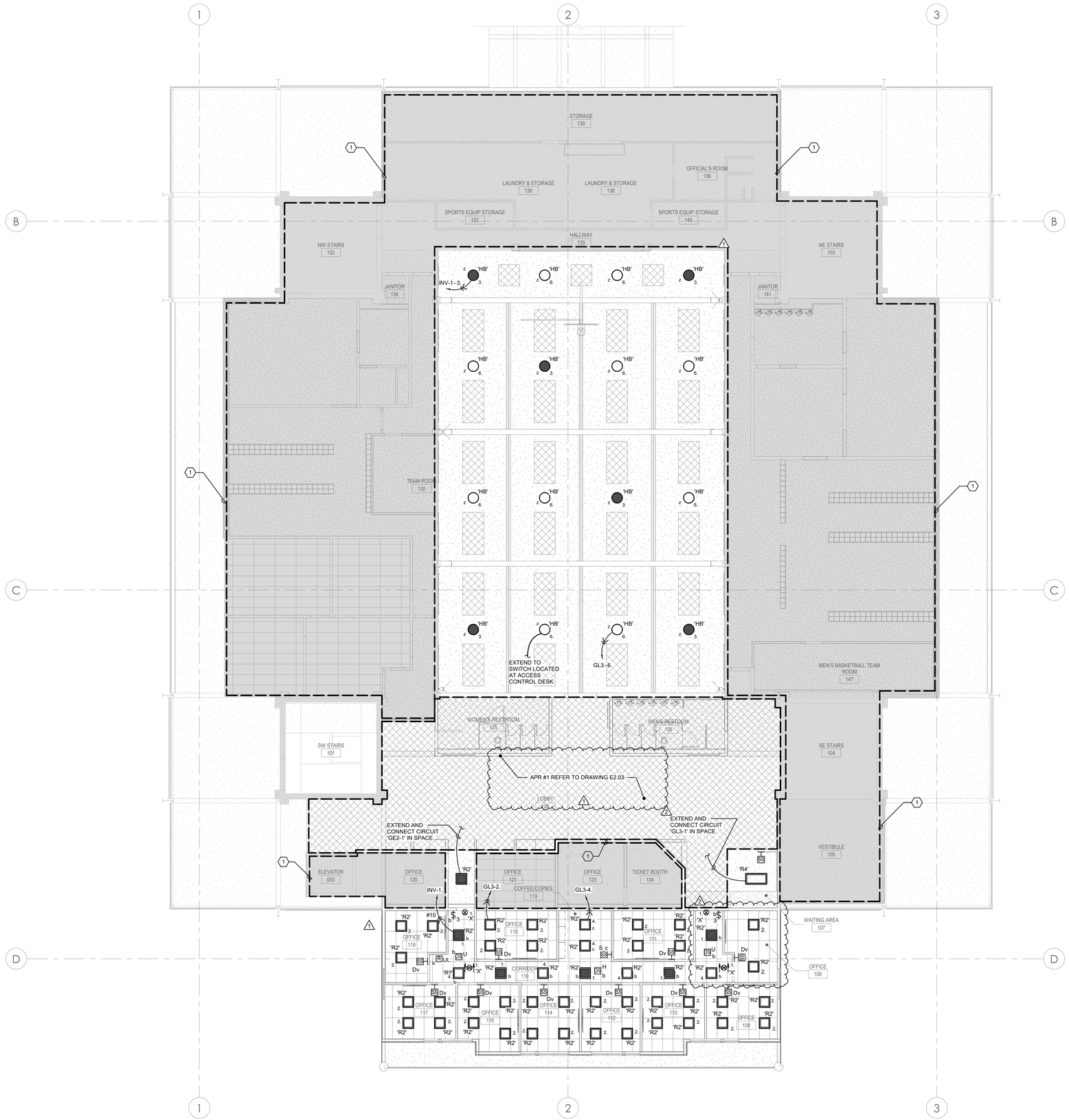
CONFORMANCE

REC CENTER FLOOR PLAN - LIGHTING

E2.01

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SHEET KEYNOTES

1. SPACE N.I.C. MAINTAIN CIRCUIT CONTINUITY OF EXISTING CONNECTIONS.

1 MAIN LEVEL FLOOR PLAN - LIGHTING

0' 4' 8' 16'

1/8" = 1'-0"

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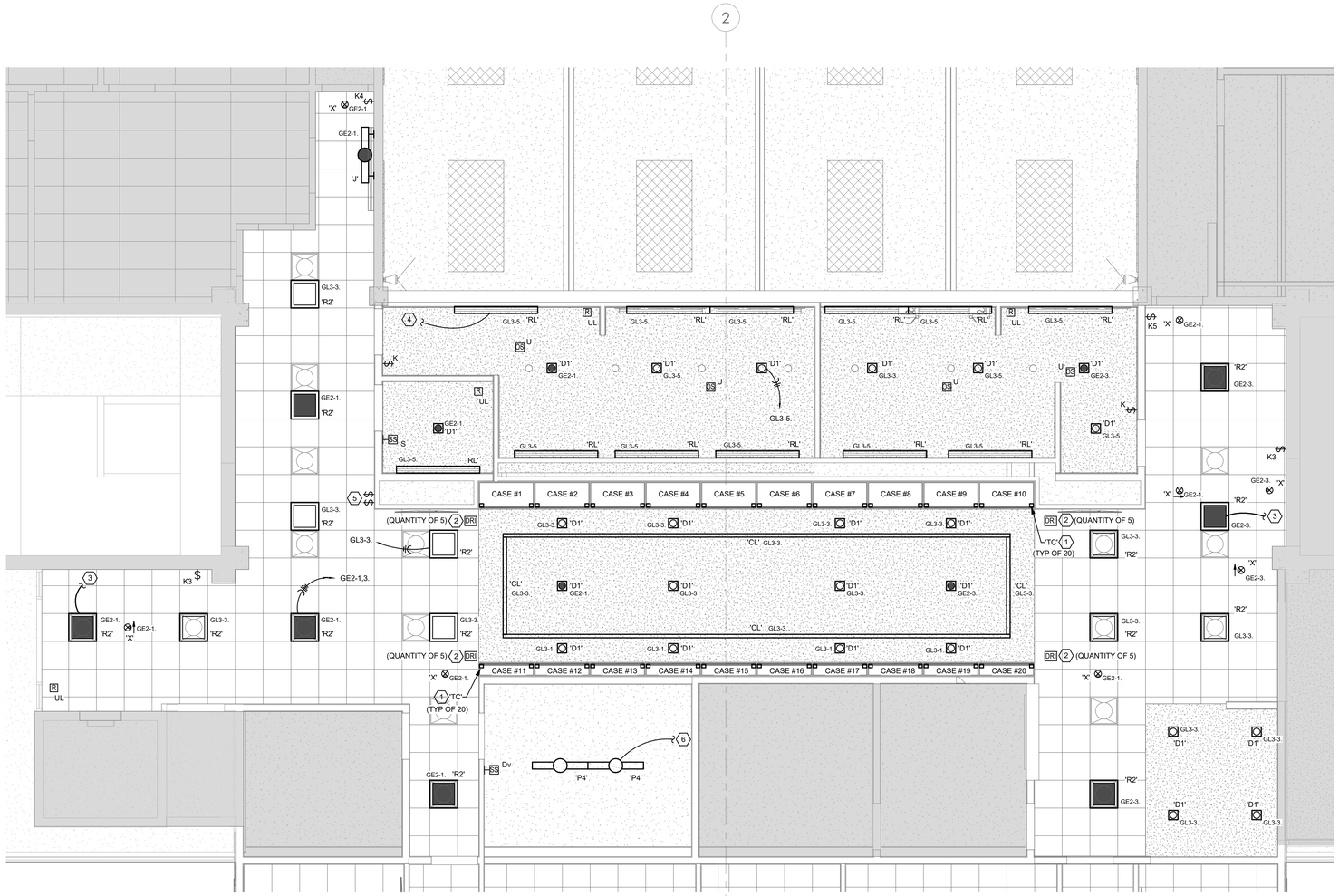
CONFORMANCE

MAIN LEVEL FLOOR PLAN - LIGHTING

E2.02

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1 ENLARGED LOBBY PLAN - LIGHTING

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING TO REMAIN LUMINAIRES.

SHEET KEYNOTES

1. PROVIDE TAPE LIGHT ON BOTH SIDES OF TROPHY CASE FOR FULL HEIGHT OF CASE. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND DETAILS FOR LENGTH OF TAPE LIGHT.
2. PROVIDE REMOTE DRIVER FOR TAPE LIGHT ABOVE ACCESSIBLE CEILING. PROVIDE (1) DRIVER PER TROPHY CASE, LABEL WITH CASE NUMBER. REFER TO CHART FOR CIRCUIT INFORMATION.
3. EXTEND CIRCUIT TO EXISTING TO REMAIN LUMINAIRES IN STAIR. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING DEVICES.
4. EXTEND CIRCUIT TO EXISTING TO REMAIN LUMINAIRES. MAINTAIN CIRCUIT CONTINUITY FOR EXISTING DEVICES.
5. PROVIDE KEYED SWITCHED FOR TROPHY CASE LIGHTING.
6. EXTEND CIRCUIT FROM ADJACENT OFFICE.

TROPHY CASE LIGHTING	
CASE #	CIRCUIT
1	GL3-1.
2	GL3-1.
3	GL3-1.
4	GL3-1.
5	GL3-1.
6	GL3-1.
7	GL3-1.
8	GL3-1.
9	GL3-1.
10	GL3-1.
11	GL3-2.
12	GL3-2.
13	GL3-2.
14	GL3-2.
15	GL3-2.
16	GL3-2.
17	GL3-2.
18	GL3-2.
19	GL3-2.
20	GL3-2.

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OREGON
JUNE 5, 2008
THANH T. PHUONG
EXPIRES: 12/31/20

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
	APR 01	6/10/19

Project Number 1820
Date 8.13.2019

CONFORMANCE

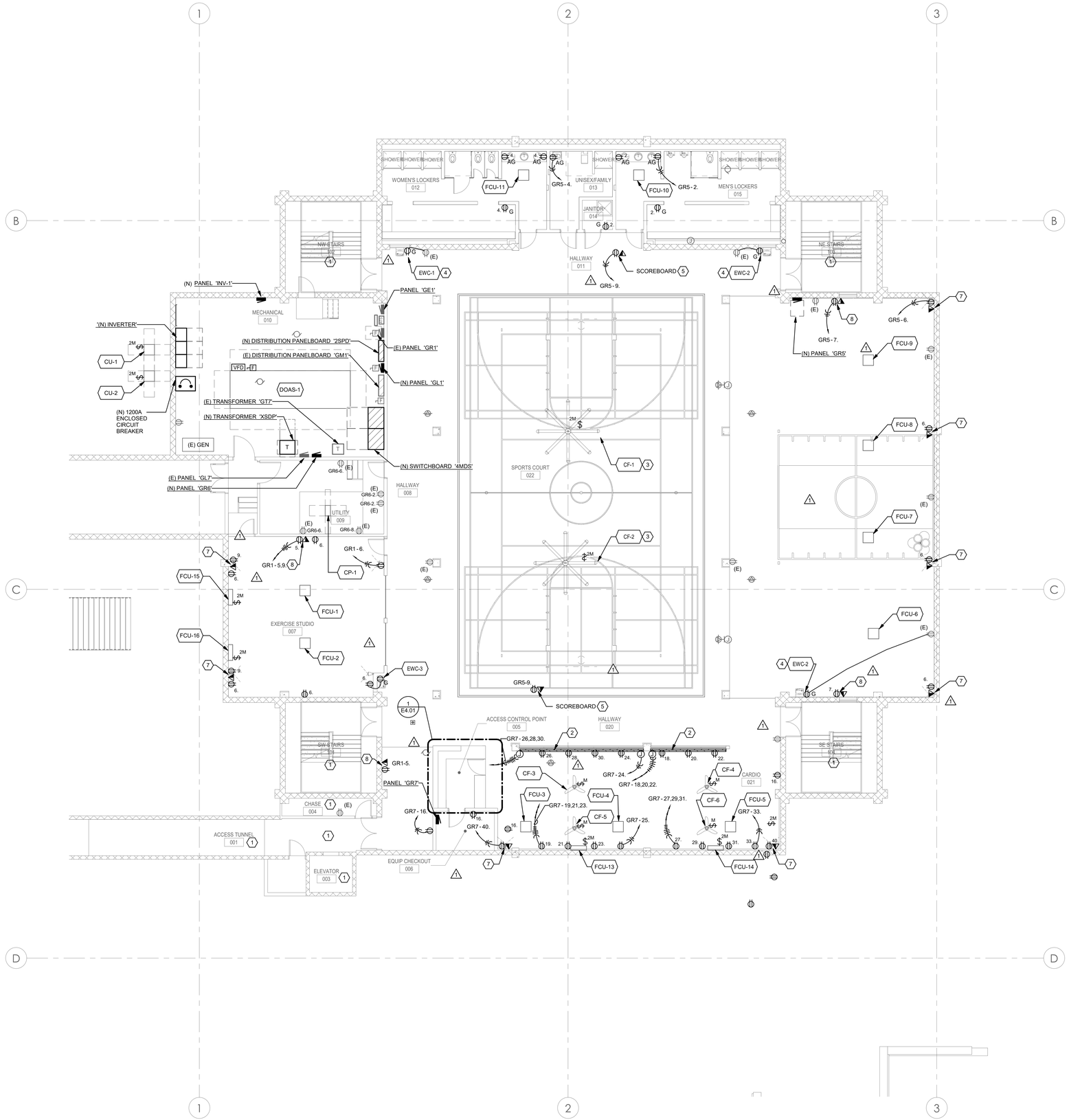
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ENLARGED LOBBY PLAN - LIGHTING

E2.03

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SHEET KEYNOTES

1. SPACE N.I.C. MAINTAIN CIRCUIT CONTINUITY OF EXISTING CONNECTIONS.
2. PROVIDE DUAL, SPLIT CHANNEL METAL SURFACE RACEWAY MOUNTED LOW ON WALLS. COORDINATE WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. PROVIDE DUPLEX RECEPTACLES AND DATA DEVICES EVERY 5-FEET ON CENTER. ROUTE POWER AND LOW-VOLTAGE WIRING IN SEPARATE CHANNELS. RECEPTACLES TO BE CONNECTED TO POWER CIRCUITS AS SHOWN. COORDINATE WITH ARCHITECT FOR FACTORY FINISH COLOR. BASIS OF DESIGN: WIREMOLD. RECEPTACLES SHOWN FOR CIRCUIT INFORMATION ONLY.
3. BASE BID: PROVIDE ALL REQUIRED COMPONENTS (RACEWAY, WIRES, JUNCTION BOX AT FAN AND CONTROLS LOCATION, ETC) FOR FUTURE CONNECTION. COORDINATE WALL LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. BID ALTERNATE: COORDINATE WALL CONTROL LOCATION WITH ARCHITECT/OWNER & DIVISION 23 PRIOR TO ROUGH-IN.
4. EXTEND EXISTING CIRCUIT IN SPACE AND CONNECT.
5. PROVIDE POWER AND DATA FOR SCOREBOARD. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE CONTROLS AT ACCESS COUNTER.
6. CONTROLS FOR SCOREBOARD. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
7. PROVIDE POWER AND 1-INCH EMPTY RACEWAY WITH PULLSTRING FOR SPEAKER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
8. PROVIDE POWER AND 1-INCH EMPTY RACEWAY WITH PULLSTRING FOR OFOI TV. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

1 REC CENTER FLOOR PLAN - POWER/SIGNAL

0' 4' 8' 16'
1/8" = 1'-0"

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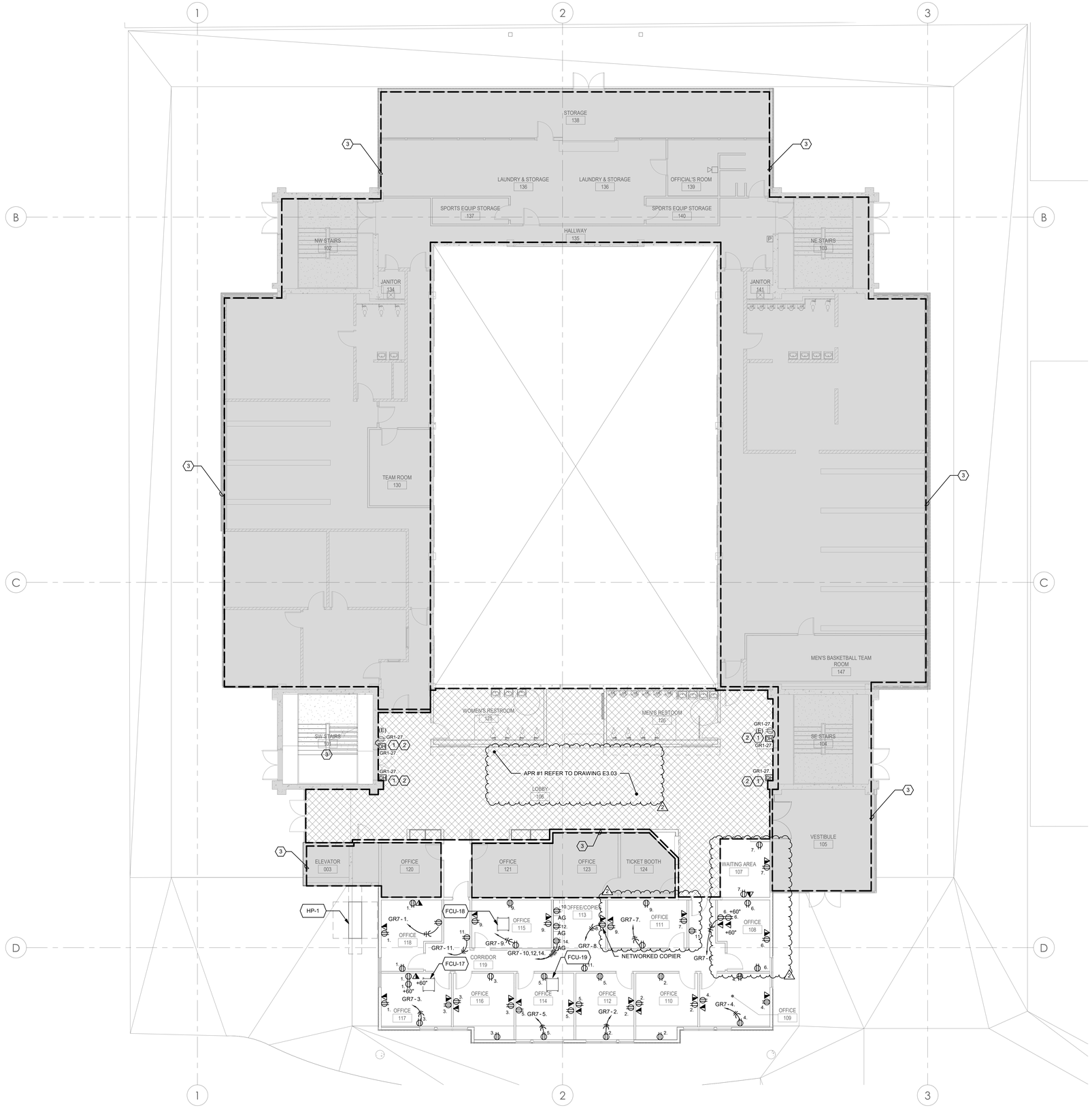
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REC CENTER FLOOR PLAN - POWER/SIGNAL

E3.01

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1 MAIN LEVEL FLOOR PLAN - POWER/SIGNAL

0' 4' 8' 16'

1/8" = 1'-0"

SHEET KEYNOTES

1. BASE BID SCOPE: MAGNETIC DOOR HOLD OPENS. COORS TO CLOSE WHEN SIGNALED BY FIRE ALARM SYSTEM OR UPON LOSS OF NORMAL POWER. COORDINATE WITH DIVISION 28.
2. EXTEND EXISTING CIRCUIT IN SPACE AND CONNECT.
3. SPACE N.I.C. MAINTAIN CIRCUIT CONTINUITY OF EXISTING CONNECTIONS.

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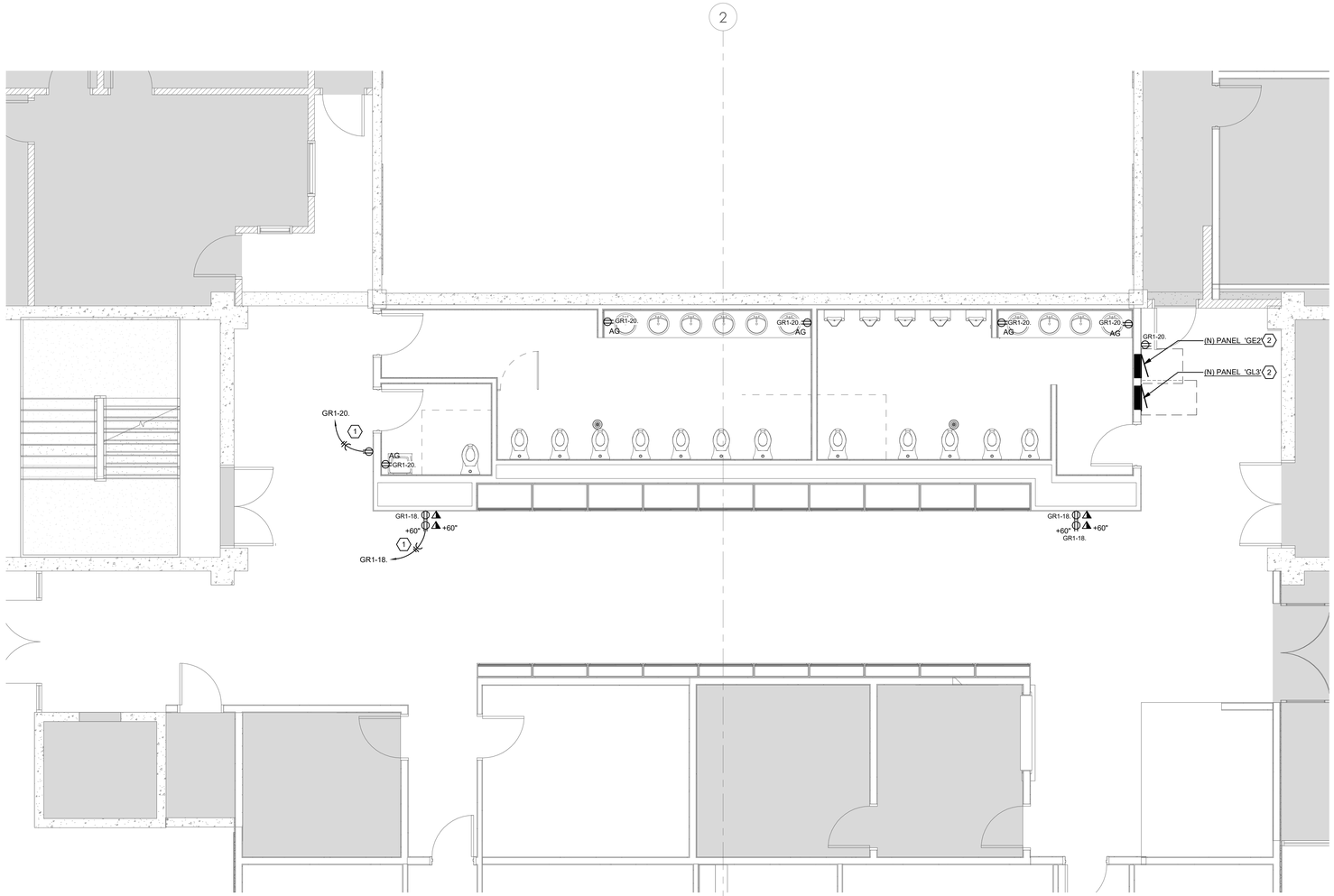
CONFORMANCE

MAIN LEVEL FLOOR PLAN - POWER/SIGNAL

E3.02

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1 ENLARGED LOBBY PLAN - POWER/SIGNAL

0' 2' 4' 8'

1/4" = 1'-0"

GENERAL SHEET NOTES

A. MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING TO REMAIN DEVICES.

SHEET KEYNOTES

1. EXTEND PROTECTED CIRCUITS TO NEW RECEPTACLES.
2. PROVIDE NEW BRANCH PANEL.
   BASE BID: EXTEND PROTECTED BRANCH CIRCUITS TO NEW PANEL AND RECONNECT. SPLICE PER NEC AS REQUIRED. PROVIDE NEW FEEDER FROM UPSTREAM PANEL, UTILIZE PROTECTED RACEWAY. SPLICING OF FEEDER NOT PERMITTED UNDER BASE BID.
   BID ALTERNATE: EXTEND PROTECTED BRANCH CIRCUITS TO NEW PANEL AND RECONNECT. SPLICE PER NEC AS REQUIRED. EXTED PROTECT FEEDER TO NEW LOCATION. SPLICE FEEDER PER NEC AS REQUIRED.

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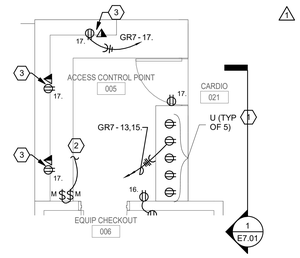
ENLARGED LOBBY PLAN - POWER/SIGNAL

E3.03

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1

1 ENLARGED ACCESS CONTROL POINT ROOM 005 - POWER

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. CIRCUIT USB TYPE RECEPTACLES TO CIRCUITS 'GR7-13,15'. REFER TO ELEVATION DETAIL FOR CIRCUIT DESIGNATIONS PER RECEPTACLE.
2. EXTEND TO SCOREBOARD, DRAWING E301. COORDINATE EXACT LOCATION REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN.
3. MOUNT FLUSH IN CASEWORK.

1

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ENLARGED PLANS - ELECTRICAL

E4.01

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SHEET KEYNOTES

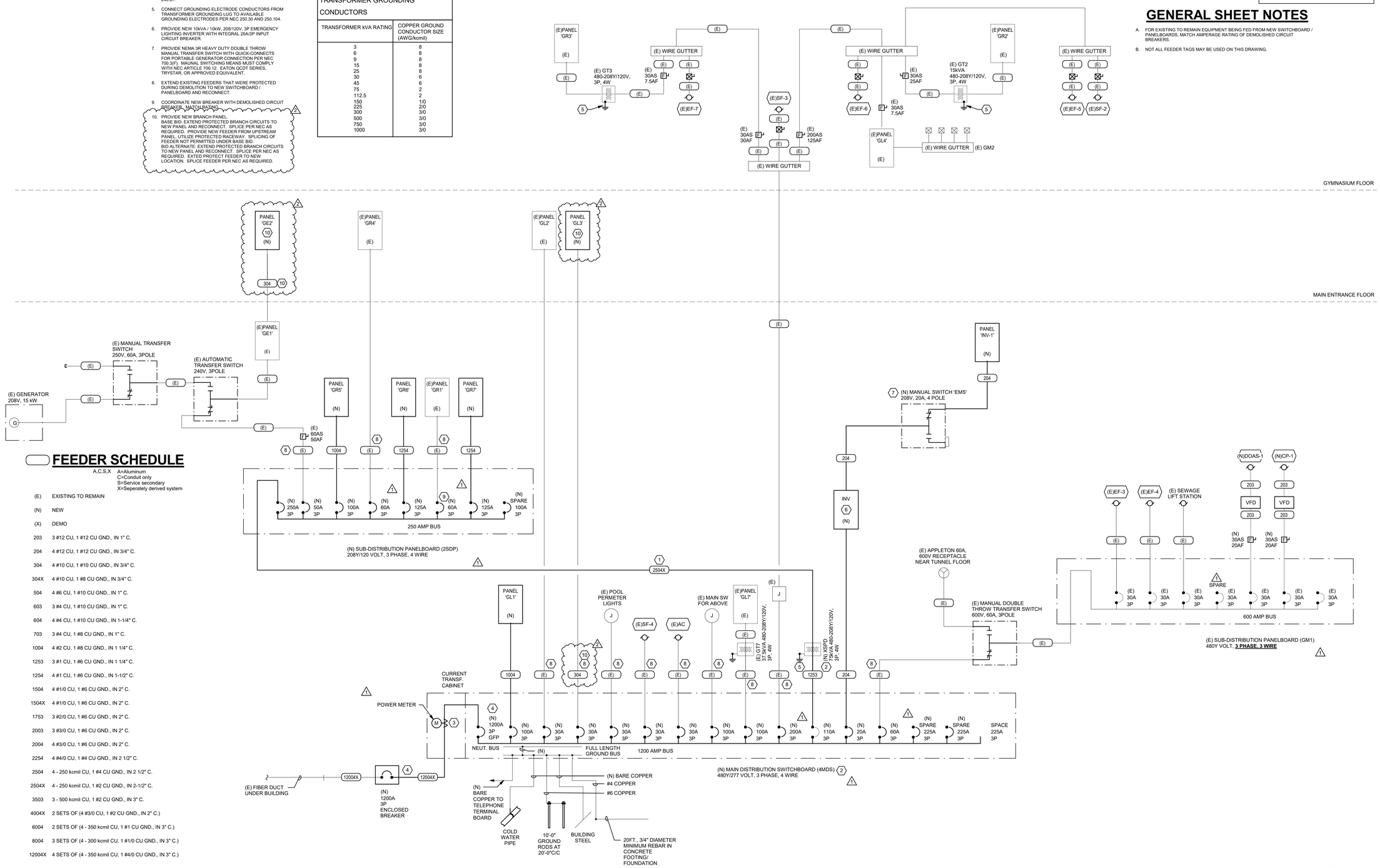
1. INSTALL FEEDER FROM TRANSFORMER SECONDARY TO MAIN BREAKER IN SWITCHBOARD / PANEL, NOT TO EXCEED 25 FEET PER NEC 240.21(C)(6).
2. PROVIDE 3-1/2 INCH HIGH CONCRETE HOUSEKEEPING PAD UNDER TRANSFORMER / SWITCHBOARD.
3. CURRENT TRANSFORMER / TERMINAL CABINET.
4. 1200 AMP FRAME AND LARGER BREAKERS: PROVIDE ARC FLASH ENERGY REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR PER NEC ARTICLE 240.87.
5. CONNECT GROUNDING ELECTRODE CONDUCTORS FROM TRANSFORMER GROUNDING LUG TO AVAILABLE GROUNDING ELECTRODES PER NEC 250.30 AND 250.104.
6. PROVIDE NEW 10kVA / 10kW, 208/120V, 3P EMERGENCY LIGHTING INVERTER WITH INTEGRAL 20A/3P INPUT CIRCUIT BREAKER.
7. PROVIDE NEMA 3R HEAVY DUTY DOUBLE THROW MANUAL TRANSFER SWITCH WITH QUICK-CONNECTS FOR PORTABLE GENERATOR CONNECTION PER NEC 700.3(F). MAUNAL SWITCHING MEANS MUST COMPLY WITH NEC ARTICLE 700.12. EATON QCDT SERIES, TRYSTAR, OR APPROVED EQUIVALENT.
8. EXTEND EXISTING FEEDERS THAT WERE PROTECTED DURING DEMOLITION TO NEW SWITCHBOARD / PANELBOARD AND RECONNECT.
9. COORDINATE NEW BREAKER WITH DEMOLISHED CIRCUIT BREAKER. MATCH RATING.
10. PROVIDE NEW BRANCH PANEL.
    BASE BID: EXTEND PROTECTED BRANCH CIRCUITS TO NEW PANEL AND RECONNECT. SPLICE PER NEC AS REQUIRED. PROVIDE NEW FEEDER FROM UPSTREAM PANEL, UTILIZE PROTECTED RACEWAY. SPLICING OF FEEDER NOT PERMITTED UNDER BASE BID.
    BID ALTERNATE: EXTEND PROTECTED BRANCH CIRCUITS TO NEW PANEL AND RECONNECT. SPLICE PER NEC AS REQUIRED. EXTED PROTECT FEEDER TO NEW LOCATION. SPLICE FEEDER PER NEC AS REQUIRED.

TRANSFORMER GROUNDING CONDUCTORS	
TRANSFORMER kVA RATING	COPPER GROUND CONDUCTOR SIZE (AWG/kcmil)
3	8
6	8
9	8
15	8
25	8
30	6
45	6
75	2
112.5	2
150	1/0
225	2/0
300	3/0
500	3/0
750	3/0
1000	3/0

GENERAL SHEET NOTES

A. FOR EXISTING TO REMAIN EQUIPMENT BEING FED FROM NEW SWITCHBOARD / PANELBOARDS, MATCH AMPERAGE RATING OF DEMOLISHED CIRCUIT BREAKERS.

B. NOT ALL FEEDER TAGS MAY BE USED ON THIS DRAWING.



FEEDER SCHEDULE

A,C,S,X A=Aluminum
C=Conduit only
S=Service secondary
X=Seperately derived system

(E)	EXISTING TO REMAIN
(N)	NEW
(X)	DEMO
203	3 #12 CU, 1 #12 CU GND., IN 1" C.
204	4 #12 CU, 1 #12 CU GND., IN 3/4" C.
304	4 #10 CU, 1 #10 CU GND., IN 3/4" C.
304X	4 #10 CU, 1 #8 CU GND., IN 3/4" C.
504	4 #6 CU, 1 #10 CU GND., IN 1" C.
603	3 #4 CU, 1 #10 CU GND., IN 1" C.
604	4 #4 CU, 1 #10 CU GND., IN 1-1/4" C.
703	3 #4 CU, 1 #8 CU GND., IN 1" C.
1004	4 #2 CU, 1 #8 CU GND., IN 1 1/4" C.
1253	3 #1 CU, 1 #6 CU GND., IN 1 1/4" C.
1254	4 #1 CU, 1 #6 CU GND., IN 1-1/2" C.
1504	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
1504X	4 #1/0 CU, 1 #6 CU GND., IN 2" C.
1753	3 #2/0 CU, 1 #6 CU GND., IN 2" C.
2003	3 #3/0 CU, 1 #6 CU GND., IN 2" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
2254	4 #4/0 CU, 1 #4 CU GND., IN 2 1/2" C.
2504	4 - 250 kcmil CU, 1 #4 CU GND., IN 2 1/2" C.
2504X	4 - 250 kcmil CU, 1 #2 CU GND., IN 2-1/2" C.
3503	3 - 500 kcmil CU, 1 #2 CU GND., IN 3" C.
4004X	2 SETS OF (4 #3/0 CU, 1 #2 CU GND., IN 2" C.)
6004	2 SETS OF (4 - 350 kcmil CU, 1 #1 CU GND., IN 3" C.)
8004	3 SETS OF (4 - 300 kcmil CU, 1 #1/0 CU GND., IN 3" C.)
12004X	4 SETS OF (4 - 350 kcmil CU, 1 #4/0 CU GND., IN 3" C.)

1 ONE-LINE POWER DIAGRAM - REVISED

NO SCALE

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No.	Description	Date
	Addendum 1	5/20/19
	APR 01	6/10/19

Project Number 1820
Date 8.13.2019

CONFORMANCE

ONE-LINE DIAGRAM - REVISED

E5.01

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
DOAS-1	DEDICATED OUTDOOR AIR UNIT	MECHANICAL 010	480/3	5.0 HP		15	203	SEE ONE-LINE	1,2
FCU-1	FAN COIL UNIT (HEATING ONLY)	EXERCISE STUDIO 007							
FCU-2	FAN COIL UNIT (HEATING ONLY)	EXERCISE STUDIO 007							
FCU-3	FAN COIL UNIT (HEATING ONLY)	CARDIO 021							
FCU-4	FAN COIL UNIT (HEATING ONLY)	CARDIO 021							
FCU-5	FAN COIL UNIT (HEATING ONLY)	CARDIO 021							
FCU-6	FAN COIL UNIT (HEATING ONLY)	WEIGHTS							
FCU-7	FAN COIL UNIT (HEATING ONLY)	WEIGHTS							
FCU-8	FAN COIL UNIT (HEATING ONLY)	WEIGHTS							
FCU-9	FAN COIL UNIT (HEATING ONLY)	WEIGHTS							
FCU-10	FAN COIL UNIT (HEATING ONLY)	MENS LOCKER 015							
FCU-11	FAN COIL UNIT (HEATING ONLY)	WOMENS LOCKER 012							
FCU-12	FAN COIL UNIT (COOLING ONLY)	CARDIO 021	208/1		0.38	15	202	GR7-32,34.	
FCU-13	FAN COIL UNIT (COOLING ONLY)	CARDIO 021	208/1		0.38	15	202	GR7-32,34.	
FCU-14	FAN COIL UNIT (COOLING ONLY)	CARDIO 021	208/1		0.38	15	202	GR7-32,34.	
FCU-15	FAN COIL UNIT (COOLING ONLY)	EXERCISE STUDIO 007	208/1		0.38	15	202	GR6-9,11.	
FCU-16	FAN COIL UNIT (COOLING ONLY)	EXERCISE STUDIO 007	208/1		0.38	15	202	GR6-9,11.	
FCU-17	FAN COIL UNIT (HEATING & COOLING)	OFFICE 117	208/1		1.56	15	202	GR7-36,38.	
FCU-18	FAN COIL UNIT (HEATING & COOLING)	OFFICE 115	208/1		1.56	15	202	GR7-36,38.	
FCU-19	FAN COIL UNIT (HEATING & COOLING)	OFFICE 114	208/1		1.56	15	202	GR7-36,38.	
CP-1	PUMP		480/3					SEE ONE-LINE	1,2
CU-1	CONDENSING UNIT	GRADE	208/3		24	35	303	GR6-1,3.	
CU-2	CONDENSING UNIT	GRADE	208/3		24	35	303	GR6-5,7.	
HRV-1	HEAT RECOVERY UNIT		120/1						3
HP-1	HEAT PUMP	GRADE	208/3		58	90	603	GR6-13,15,17.	
EWC-1	ELECTRIC WATER COOLER	SPORTS COURT 022	120/1	370.0 W		15	202	SEE FLOORPLAN	
EWC-2	ELECTRIC WATER COOLER	SPORTS COURT 022	120/1	370.0 W		15	202	SEE FLOORPLAN	
TP-1	TRAP PRIMER		120/1	2.0 A		15	202		
CF-1	CEILING FAN	SPORTS COURT 022	208/1	10.0 FLA		20	202	GR6-2,4.	4
CF-2	CEILING FAN	SPORTS COURT 022	208/1	10.0 FLA		20	202	GR6-6,8.	4
CF-3	CEILING FAN	CARDIO 021	120/1	20.7 W		15	202	GR7-35.	4
CF-4	CEILING FAN	CARDIO 021	120/1	20.7 W		15	202	GR7-35.	4
CF-5	CEILING FAN	CARDIO 021	120/1	20.7 W		15	202	GR7-35.	4
CF-6	CEILING FAN	CARDIO 021	120/1	20.7 W		15	202	GR7-35.	4

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1 SEE ONE LINE POWER DIAGRAM FOR FEEDER SIZE.

2 ROUTE CIRCUIT VIA VFD PROVIDED BY DIVISION 23.

3 PROVIDE SEPARATE 120V CIRCUIT FOR INTEGRAL LIGHTING AND SERVICE RECEPTACLE. REFER TO FLOORPLAN FOR CIRCUIT DESIGNATION.

4 BASE BID: PROVIDE ALL REQUIRED COMPONENTS (RACEWAY, WIRES, JUNCTION BOX AT FAN AND CONTROLS LOCATION, ETC) FOR FUTURE CONNECTION. COORDINATE WALL LOCATION WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
BID ALTERNATE. COORDINATE WALL CONTROL LOCATION WITH ARCHITECT/OWNER & DIVISION 23 PRIOR TO ROUGH-IN.

WIRE / CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
203 3 #12 CU, 1 #12 CU GND., IN 3/4" C.
303 3 #10 CU, 1 #10 CU GND., IN 3/4" C.
603 3 #4 CU, 1 #10 CU GND., IN 1" C.

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CONFORMANCE

SCHEDULES - ELECTRICAL

E6.01

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LOAD SUMMARY AT (N) Switchboard '4MDS'

LOAD TYPE	LOAD DESCRIPTION	UNITS	TOTAL CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND LOAD
G	General (Non-Continuous)	KVA	1023.31	100%	1023.31
L	Lighting	KVA	41.65	125%	52.06
R	Receptacles - to 10 KVA	KVA	10.00	100%	10.00
	over 10 KVA	KVA	19.58	50%	9.79
K	Kitchen	KVA	0.00	100%	0.00
H	Heating	KVA	0.00	100%	0.00
M	Motors	KVA	15.13	100%	15.13
LM	Largest Motor	KVA	16.70	125%	20.88
WH	Water Heater	KVA	0.00	125%	0.00
C	Continuous General Load	KVA	0.00	125%	0.00
	TOTAL LOADS (480V, 3 PHASE):	KVA	1,126.4		1,131.2
		AMPS	1,354.8		1,360.6

201x-0xxx

(N) Panel 'INV-1'

277/480V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	L - MAIN FLOOR OFFICE CORRIDOR	65	L	20/1		A		20/1	818	L	L - REC CENTER	2
3	L - SPORTS COURT	1,050	L	20/1		B		20/1			SPARE BREAKER	4
5	L - RESTROOMS, ELECTRICAL ROOM	107	L	20/1		C		20/1			SPARE BREAKER	6
7	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	8
9	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	10
11	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	12

Total Connected Load:	Ph. A	883	VA	3	Amps	
Total Connected Load:	Ph. B	1,050	VA	4	Amps	
Total Connected Load:	Ph. C	107	VA	0	Amps	
				Panel Connected Load:	2.0 KVA	2.5 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	2.6 **KVA**	3.1 **Amps**

Notes:
1.
2.
3.
4.
5.

Accessories:

2

2018-0610

(N) Panel 'GL3'

277/480V, 3 Ph., 4 W.; 100A Bus with 30A Main Circuit Breaker Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	TROPHY CASE LIGHTS	960	L	20/1		A		20/1	960	L	TROPHY CASE LIGHTS	
3	L - LOBBY	1,040	L	20/1	1	B		20/1	104	L	L - MAIN FLOOR OFFICES	2
5	L - CONCESSION	2,720	L	20/1	1	C		20/1	455	L	L - MAIN FLOOR OFFICE CORRIDOR	4
7	L - OFFICES	3,000	L	20/1	1	A		20/1	1,700	L	SPORTS COURT LIGHTING	6
9	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	8
11	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	10

Total Connected Load:	Ph. A	6,620	VA	24	Amps	
Total Connected Load:	Ph. B	1,144	VA	4	Amps	
Total Connected Load:	Ph. C	3,175	VA	11	Amps	
				Panel Connected Load:	10.9 KVA	13.2 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	13.7 **KVA**	16.4 **Amps**

Notes:
1. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL AND RECONNECT.
2.
3.
4.
5.

Accessories:

201x-0xxx

(E) Panel 'GR1'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) L- ACCENT LIGHT	540	L	20/1	1	A	1	60/2			(E) SPARE BREAKER	2
3	(E) R - POST OFFICE, STUDY RM	540	R	20/1	1	B		--			--	4
5	**EXERCISE & ACCESS CONTROL TV**	**1,000**	**G**	20/1	1	C	1	20/1	**1,080**	**R**	**(N) R - EXERCISE STUDIO 007**	6
7	(E) L - RAMP LITES	1,600	L	20/1	1	A	1	20/1	900	R	(E) R - WEST SIDE SHOWER RM	8
9	**EXERCISE SPEAKERS**	**500**	**G**	20/1	1	B	1	20/1			(E) SPARE BREAKER	10
11	(E) R -ITS OUTLET	1,500	R	20/1	1	C	1	20/1			(E) R - PHY ED. DIRECTORS OFFICE	12
13	(E) SPARE BREAKER			20/1	1	A	1	20/1			(E) R - INTRUCTORS OFFICE	14
15	(E) SPARE BREAKER			20/1	1	B	1	20/1			(E) R - GIRLS LOCKER RM	16
17	(E) SPARE BREAKER			20/1	1	C	1	20/1			(E) R - LOBBY & TICKETS OFFICE	18
19	(E) R - POP MACHINE LOBBY	1,800	R	20/1	1	A	1	20/1	900	R	(E) R - LOBBY AND CONCESSION RM	20
21	(E) SPARE BREAKER			20/1	1	B	1	20/1	900	R	(E) R - GENERAL OFFICE	22
23	(E) SPARE BREAKER			20/1	1	C	1	20/1			(E) SPARE BREAKER	24
25	(E) HOT WATER CIRC. PUMP	264	M	20/1	1	A	1	20/1			(E) SUPPLY FAN 5	26
27	(E) DRINKING FOUNTAIN LOBBY	300	M	20/1	1	B	1	20/1	720	R	(E) R - MECH RM AND TEL. CAB	28
29	(E) SPARE BREAKER			20/1	1	C	1	20/1			(E) SPARE BREAKER	30
31	(E) SPARE BREAKER			20/2	1	A					(E) BUSSED SPACE	32
33	--			--		B	1	20/1	900	R	(E) DOOR MOTOR	34
35	(E) BUSSED SPACE					C					(E) BUSSED SPACE	36
37	(E) SPARE BREAKER			20/3	1	A	1	20/3			(E) BLEACHERS	38
39	--			--		B		--			--	40
41	--			--		C		--			--	42

Total Connected Load:	Ph. A	6,004	VA	50	Amps	
Total Connected Load:	Ph. B	3,860	VA	32	Amps	
Total Connected Load:	Ph. C	3,580	VA	30	Amps	
				Panel Connected Load:	13.4 KVA	37.3 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	14.1 **KVA**	39.0 **Amps**

Notes:
1. FIELD VERIFY BREAKER AMPERAGE.
2. PROVIDE NEW CIRCUIT BREAKER
3.
4.
5.

Accessories:

201x-0xxx

(N) Panel 'GL1'

277/480V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	L - PERIMETER SPORTS COURT	522	L	20/1		A	1	20/1	3,500	L	EXISTING	2
3	L - EXERCISE STUDIO & ACCESS CONTROL	400	L	20/1		B	1	20/1	3,500	L	EXISTING	4
5	L - CARDIO & WEIGHTS	1,357	L	20/1		C	1	20/1	3,500	L	EXISTING	6
7	L - RESTROOMS, ELECTRICAL ROOM	861	L	20/1		A		20/1			SPARE BREAKER	8
9	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	10
11	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	12
13	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	14
15	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	16
17	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	18
19	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	20

Total Connected Load:	Ph. A	4,883	VA	18	Amps	
Total Connected Load:	Ph. B	3,900	VA	14	Amps	
Total Connected Load:	Ph. C	4,857	VA	18	Amps	
				Panel Connected Load:	13.6 KVA	16.4 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	17.1 **KVA**	20.5 **Amps**

Notes:
1. RECONNECT EXISTING CIRCUIT TO NEW PANEL.
2.
3.
4.
5.

Accessories:

1

201x-0xxx

(N) Panel 'GR5'

120/208V, 3 Ph., 4 W.; 100A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	IN USE WEIGHT ROOM G008	540	G	20/1	1	A		20/1	720	R	MEN'S LOCKER 015	2
3	IN USE WEIGHT ROOM G008	720	G	20/1	1	B		20/1	720	R	WOMEN'S LOCKER 012	4
5	IN USE DAY STUDENT STUDY	720	G	20/1	1	C		20/1	1,000	G	WEIGHT ROOM SPEAKERS	6
7	WEIGHT ROOM TV	1,000	G	20/1		A		20/1			SPARE BREAKER	8
9	SCORE BOARD	1,500	G	20/1		B		20/1			SPARE BREAKER	10
11	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	12
13	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	14
15	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	16
17	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	18
19	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	20
21	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	22
23	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	24
25	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	26
27	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	28
29	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	30
31	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	32
33	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	34
35	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	36
37	SPARE BREAKER			20/1		A		20/1			SPARE BREAKER	38
39	SPARE BREAKER			20/1		B		20/1			SPARE BREAKER	40
41	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	42

Total Connected Load:	Ph. A	2,260	VA	19	Amps	
Total Connected Load:	Ph. B	2,940	VA	24	Amps	
Total Connected Load:	Ph. C	1,720	VA	14	Amps	
				Panel Connected Load:	6.9 KVA	19.2 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	6.9 **KVA**	19.2 **Amps**

Notes:
1. RECONNECT EXISTING CIRCUIT TO NEW PANEL.
2.
3.
4.
5.

Accessories:

201x-0xxx

(N) Panel 'GR6'

120/208V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	CU-1	2,304	M	35/2		A		20/2	1,040	M	CF-1	2
3	---	2,304	M	---		B		---	1,040	M	---	4
5	CU-2	2,304	M	35/2		C		20/2	1,040	M	CF-2	6
7	---	2,304	M	---		A		---	1,040	M	---	8
9	FCU-15 & FCU-16	64	M	15/2		B		20/1			SPARE BREAKER	10
11	---	64	M	---		C		20/1			SPARE BREAKER	12
13	HP-1	5,568	M	90/3		A		20/1			SPARE BREAKER	14
15	---	5,568	M	---		B		20/1			SPARE BREAKER	16
17	---	5,568	M	---		C		20/1			SPARE BREAKER	18

Total Connected Load:	Ph. A	12,256	VA	102	Amps	
Total Connected Load:	Ph. B	8,976	VA	75	Amps	
Total Connected Load:	Ph. C	8,976	VA	75	Amps	
				Panel Connected Load:	30.2 KVA	83.8 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	34.4 **KVA**	95.4 **Amps**

Notes:
1.
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4.
5.

Accessories:

201x-0xxx

(N) Panel 'GR7'

120/208V, 3 Ph., 4 W.; 125A Bus with Main Lug Only Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	R - OFFICE 118, 117	1,080	R	20/1		A		20/1	1,080	R	R - OFFICE 112,110	2
3	R - OFFICE 117,116	1,080	R	20/1		B		20/1	720	R	R - OFFICE 109	4
5	R - OFFICE 114,112	1,080	R	20/1		C		20/1	720	R	R - RECEPTION 108	6
7	R - OFFICE 111	720	R	20/1		A		20/1	1,000	G	R - COPIER	8
9	R - OFFICE 115	720	R	20/1		B		20/1	1,000	G	R - COFFEE/COPIES 113	10
11	R - CORRIDOR 119	540	R	20/1		C		20/1	1,000	G	R - COFFEE/COPIES 113	12
13	R - CARDIO CUBBIES	540	R	20/1		A		20/1	1,000	G	R - COFFEE/COPIES 113	14
15	R - CARDIO CUBBIES	540	R	20/1		B		20/1	900	R	R - EQUIP CHECKOUT	16
17	R - ACCESS CONTROL POINT	720	R	20/1		C		20/1	900	G	CARDIO PLUGMOLD	18
19	CARDIO PLUGMOLD	900	G	20/1		A		20/1	900	G	CARDIO PLUGMOLD	20
21	CARDIO PLUGMOLD	900	G	20/1		B		20/1	900	G	CARDIO PLUGMOLD	22
23	CARDIO PLUGMOLD	900	G	20/1		C		20/1	900	G	CARDIO PLUGMOLD	24
25	CARDIO PLUGMOLD	900	G	20/1		A		20/1	900	G	CARDIO PLUGMOLD	26
27	CARDIO PLUGMOLD	900	G	20/1		B		20/1	900	G	CARDIO PLUGMOLD	28
29	CARDIO PLUGMOLD	900	G	20/1		C		20/1	900	G	CARDIO PLUGMOLD	30
31	CARDIO PLUGMOLD	900	G	20/1		A		15/2	96	M	FCU-12, FCU-13, FCU-14	32
33	CARDIO PLUGMOLD	900	G	20/1		B		---	96	M	---	34
35	CF-3, CF-4, CF-5, CF-6	92	M	20/1		C		15/2	390	M	FCU-17, FCU-18, FCU-19	36
37	SPARE BREAKER			20/1		A		---	390	M	---	38
39	SPARE BREAKER			20/1		B		20/1	500	G	CARDIO SPEAKERS	40
41	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	42

Total Connected Load:	Ph. A	#####	VA	87	Amps	
Total Connected Load:	Ph. B	#####	VA	84	Amps	
Total Connected Load:	Ph. C	9,042	VA	75	Amps	
				Panel Connected Load:	29.5 KVA	81.9 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	29.5 **KVA**	81.8 **Amps**

Notes:
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Accessories:

2

2018-0610

(N) Panel 'GE2'

120/208V, 3 Ph., 4 W.; 100A Bus with 30A Main Circuit Breaker Surface Mounted Panelboard

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	L - SW STAIRS AND LOBBY	550	L	20/1	1	A	1	20/1	330	L	L - BOYS LOCKER RM. SE STAIRS	2
3	L - SW EXT AND PHOTOCELL	2,000	L	20/1	1	B	1	20/1	400	L	L - NE EXT AND PHOTOCELL	4
5	L - SE EXT AND PHOTOCELL	600	L	20/1	1	C	1	20/1	1,000	L	L - VIEWING ROOM	6
7	L - EMGRCY LITES ENT	290	L	20/1	1	A		20/1			SPARE BREAKER	8
9	FOLLET	1,000	L	20/1	1	B		20/1			SPARE BREAKER	10
11	SPARE BREAKER			20/1		C		20/1			SPARE BREAKER	12

Total Connected Load:	Ph. A	1,170	VA	10	Amps	
Total Connected Load:	Ph. B	3,400	VA	28	Amps	
Total Connected Load:	Ph. C	1,600	VA	13	Amps	
				Panel Connected Load:	6.2 KVA	17.1 Amps
				Sub-Fed Connected Load:	0.0 KVA	0.0 Amps
				Total Demand Load:	7.7 **KVA**	21.4 **Amps**

Notes:
1. EXTEND EXISTING BRANCH CIRCUITS TO NEW PANEL AND RECONNECT.
2.
3.
4.
5.

Accessories:

PROJECT 2018-0610
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REGISTERED PROFESSIONAL ENGINEER
65590
OREGON
JUNE 6, 2008
THANH T. PHUONG
EXPIRES: 12/31/20

OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date
	Addendum 1	5/20/19
	APR 01	6/10/19

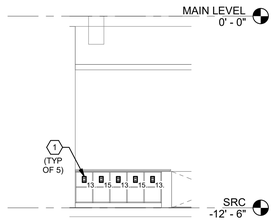
Project Number 1820
Date 8.13.2019

CONFORMANCE

PANEL SCHEDULES-ELECTRICAL

E6.02

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1 CARDIO CUBBIE - POWER ELEVATION

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. MOUNT USB TYPE RECEPTACLES FLUSH IN CUBBIE. CIRCUIT RECEPTACLES TO CIRCUITS 'GR7-13,15'.

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REGISTERED PROFESSIONAL ENGINEER
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JUNE 5, 2008
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OREGON TECH STUDENT RECREATION CENTER

3201 Campus Drive
Klamath Falls, OR
97601

No.	Description	Date

Project Number 1820
Date 8.13.2019

CONFORMANCE

DETAILS - ELECTRICAL

E7.01

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