CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING AND RESTROOM UPGRADE REBID

CIP ID #5218.056
CLMC910A
900 BARTON SPRINGS RD.
AUSTIN, TX 78704

Construction Documents
June 6, 2022

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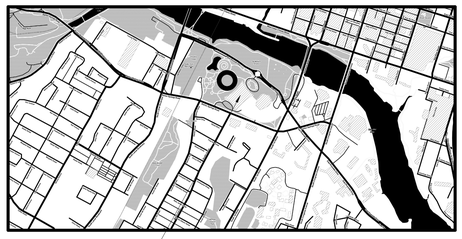
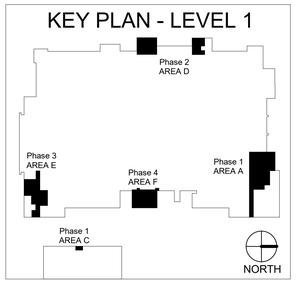
LESLIE POOL	DISTRICT 7
PAIGE ELLIS	DISTRICT 8
KATHIE TOVO	DISTRICT 9
ALISON ALTER	DISTRICT 10

CITY OF AUSTIN PROJECT LOCATION MAP



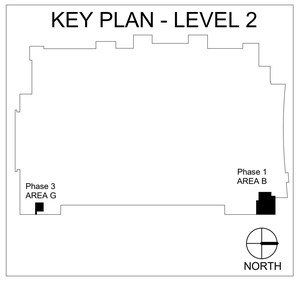
PROJECT LOCATION

PHASING PLAN DIAGRAM



AREA DEFINITION:
AREA A: NORTH RESTROOMS, GREEN ROOMS AND SEWER LINE LVL 1
AREA B: NORTH RESTROOMS LVL 2
AREA C: GARAGE RESTROOM LVL 1
AREA D: WEST RESTROOMS LVL 1
AREA E: SOUTHEAST RESTROOMS LVL 1
AREA F: EAST RESTROOMS AND FIRST AID LVL 1
AREA G: SOUTHEAST RESTROOMS LVL 2

PHASES
PHASE 1: AREA A, B, AND C
PHASE 2: AREA D
PHASE 3: AREA E + G
PHASE 4: AREA F



ABREVIATIONS

A/C	ABOVE COUNTER	GA	GAUGE
AC	AIR CONDITIONING	GALV	GALVANIZED
ACT	ACOUSTIC CEILING TILE	GC	GENERAL CONTRACTOR
ADA	AMERICANS WITH DISABILITIES ACT (Current Standards)	GFI	GROUND FAULT INTERRUPTER
AFF	ABOVE FINISH FLOOR	GND	GROUND
AFG	ABOVE FINISHED GRADE	GWB	GYPSUM WALL BOARD
ALUM	ALUMINUM	GYP	GYPSUM
BD	BOARD	HB	HOSE BIB
BLDG	BUILDING	HVAC	HEATING VENTILATION & AIR CONDITIONING
BOF	BOTTOM OF FOOTING	ID	INTERIOR DIAMETER
BOT	BOTTOM	INSUL	INSULATION
CC	CENTER TO CENTER	IN	INCH, INCHES
CF	CONTRACTOR FURNISHED	INT	INTERIOR
CG	CORNER GUARD	JAN	JANITOR
CI	CONTRACTOR INSTALLED	JT	JOINT
CJ	CONTROL JOINT	LAM	LAMINATE
CL	CENTER LINE	LVT	LUXURY VINYL TILE
CLG	CEILING	MAX	MAXIMUM
CLR	CLEAR	MCJ	MASONRY CONTROL JOINT
CLO	CLOSET	MDF	MEDIUM DENSITY FIBERBOARD
CMU	CONCRETE MASONRY UNIT	MDO	MEDIUM DENSITY OVERLAY
CONC	CONCRETE	MECH	MECHANICAL
CONT	CONTINUOUS	MFGR	MANUFACTURER
COL	COLUMN	MIN	MINIMUM
CORR	CORRIDOR	MO	MASONRY OPENING
CT	CERAMIC TILE	MTD	MOUNTED
CU FT	CUBIC FEET	MTL	METAL
CU YD	CUBIC YARD	NA	NOT APPLICABLE
DBL	DOUBLE	NEC	NATIONAL ELECTRICAL CODE
DIA	DIAMETER	NIC	NOT IN CONTRACT
DN	DOWN	NO	NUMBER
DS	DOWNSPOUT	NTS	NOT TO SCALE
DTL	DETAIL	OC	ON CENTER
DWG	DRAWING	OD	OUTSIDE DIAMETER
DWGS	DRAWINGS	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
EA	EACH	OFOI	OWNER FURNISHED OWNER INSTALLED
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OPP HD	OPPOSITE HAND
EJ	EXPANSION JOINT	PLAM	PLASTIC LAMINATE
ELEC	ELECTRICAL	PLYWD	PLYWOOD
ELEV	ELEVATION	PNT	PAINT
EQ	EQUAL	PSF	POUNDS PER SQUARE FOOT
EQMT	EQUIPMENT	PSI	POUNDS PER SQUARE INCH
EWC	ELECTRIC WATER COOLER	PTD	PAINTED
EXH	EXHAUST	PWR	POWER
EXT	EXTERIOR	RD	ROOF DRAIN
FA	FIRE ALARM	RDL	ROOF DRAIN LEADER
FACP	FIRE ALARM CONTROL PANEL	RO	ROUGH OPENING
FD	FLOOR DRAIN	REF	REFERENCE
FEC	FIRE EXTINGUISHER CABINET	SCHED	SCHEDULED
FF	FINISH FLOOR	SD	SMOKE DETECTOR
FFE	FINISHED FLOOR ELEVATION	SECT	SECTION
FF&E	FURNITURE, FIXTURES & EQUIPMENT	SF	SQUARE FOOT
FIN	FINISH	SHT	SHEET
FL	FLOOR	SIM	SIMILAR
FM	FM GLOBAL (Factory Mutual)	SL	SLOPE
FRP	FIBERGLASS REINFORCED PLASTIC	SPECS	SPECIFICATIONS
FT	FOOT, FEET	SQ FT	SQUARE FEET
FVC	FIRE VALVE CABINET	SS	STAINLESS STEEL
		SSM	SOLID SURFACE MATERIAL
		STL	STEEL
		STRUCT	STRUCTURAL
		SV	SHEET VINYL
		SY	SQUARE YARD
		SYS	SYSTEM
		VCT	VINYL COMPOSITION TILE
		VWC	VINYL WALL COVERING
		VERT	VERTICAL
		T&G	TONGUE AND GROOVE
		TAS	TEXAS ACCESSIBILITY STANDARDS (Current Version)
		TEL	TELEPHONE
		TOB	TOP OF BEAM
		TOC	TOP OF CONCRETE
		TOF	TOP OF FOOTING
		TOJ	TOP OF JOIST
		TOP	TOP OF PARAPET
		TOR	TOP OF ROOF
		TOS	TOP OF STEEL
		TV	TELEVISION
		TYP	TYPICAL
		UL	UNDERWRITERS LABORATORY
		VIF	VERIFY IN FIELD
		W/	WITH
		W/O	WITHOUT
		WD	WOOD
		WH	WATER HEATER

NOTE: THE ABBREVIATIONS ABOVE MAY NOT ALL APPLY TO THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE PROJECT'S SCOPE (FOR BOTH DEMOLITION AND THE NEW CONSTRUCTION) AND FOR RESPECTING & FOLLOWING THESE DIRECTIONS AS THEY APPLY TO THE PROJECT.

REFERENCE SYMBOLS

BUILDING SECTION
WALL SECTION NUMBER
SIM
1
A101
DIRECTION OF VIEW
SHEET WHERE DRAWN

WALL SECTION
WALL SECTION NUMBER
SIM
1
A101
DIRECTION OF VIEW
SHEET WHERE DRAWN

EXTERIOR ELEVATION
ELEVATION NUMBER AND DIRECTION
A101 E1
SHEET WHERE DRAWN

DETAIL REFERENCE
DETAIL NUMBER
SIM
1
A101
SHEET WHERE DRAWN, HYPHEN INDICATES DETAIL ON SAME SHEET.

INTERIOR ELEVATION REFERENCE
ELEVATION NUMBER AND DIRECTION OF VIEW
E1
E1 A101 E1
E1
SHEET WHERE DRAWN

FLOOR REFERENCE
NAME OF LEVEL
LEVEL 1
+10'-0"
INDICATES HEIGHT ABOVE PROJECT DATUM

BASIC DRAWING TITLE
00 View Name
A101 NTS

SYMBOLS & TAGS

REVISION NUMBER AND EXTENT
1
REVISION NUMBER - SEE REVISION HISTORY ON THE TITLE BLOCK OF EACH SHEET
EXTENT OF CURRENT REVISION

MATCH LINE REFERENCE
REF. 1/A101
DRAWING WHERE CONTINUATION IS FOUND
DRAWING SIDE

LAYOUT GRID LINES
NEW GRID IDENTIFICATION
0
0
90.00°
EXISTING GRID IDENTIFICATION
0

NORTH ARROW REFERENCE

TAGS AND SYMBOLS
1 1 1 — KEY NOTE SYMBOLS - SHEET BASED. SEE CORRESPONDING NUMBERED KEY NOTE ON SHEET WHERE REFERENCE OCCURS
1i — SPECIALTY EQUIPMENT TAG
12" / 6" — ROOF PITCH
W1 — WINDOW TAG
101 — DOOR TAG
Room name / 101 — ROOM TAG
A1 — PARTITION TYPE TAG
SEE PARTITION SYMBOL DESCRIPTION ON SHEET I104
GRAPHIC SCALE
0 4' 8' 16'

SHEET INDEX

000	COVER SHEET
I101	TAS ACCESSIBILITY REQUIREMENTS
I102	TAS ACCESSIBILITY REQUIREMENTS
I103	TOILET ACCESSORY SCHEDULE
R101	FIRE PROTECTION ANALYSIS
R102	LEVEL 1 - OVERALL LIFE SAFETY PLAN
R103	LEVEL 2 - OVERALL LIFE SAFETY PLAN
AD101	LEVEL 1 - OVERALL DEMO PLAN
AD102	LEVEL 2 - OVERALL DEMO PLAN
AD401	LEVEL 1 - ENLARGED DEMO PLAN - SOUTH
AD402	LEVEL 1 - ENLARGED DEMO PLAN - EAST & GARAGE
AD403	LEVEL 1 - ENLARGED DEMO PLAN - NORTH
AD404	LEVEL 1 - ENLARGED DEMO PLANS - WEST
AD405	LEVEL 2 - ENLARGED DEMO PLANS
A101	LEVEL 1 OVERALL FLOOR PLAN
A102	LEVEL 2 OVERALL FLOOR PLAN
A105	PARTITION TYPES, PLAN & CEILING DETAILS
A201	DOOR SCHEDULE & DETAILS
A401	LEVEL 1 - ENLARGED FLOOR PLAN - SOUTH
A402	LEVEL 1 - ENLARGED FLOOR PLAN - EAST & GARAGE
A403	LEVEL 1 - ENLARGED FLOOR PLAN - NORTH
A404	LEVEL 1 - ENLARGED FLOOR PLAN - WEST
A405	LEVEL 2 - ENLARGED FLOOR PLAN - NORTH
A406	LEVEL 2 - ENLARGED FLOOR PLAN - STAFF
A501	LEVEL 1 - ENLARGED RCP - SOUTH & EAST
A502	LEVEL 1 - ENLARGED RCP - NORTH AND WEST
A503	LEVEL 2 - ENLARGED RCP - NORTH & STAFF
A801	FINISH SCHEDULE & LEGEND
A802	MILLWORK DETAILS
A820	INTERIOR ELEVATIONS - SOUTH
A821	INTERIOR ELEVATIONS - EAST
A822	INTERIOR ELEVATIONS - NORTH
A823	INTERIOR ELEVATIONS - WEST
A824	INTERIOR ELEVATIONS - FAMILY
A825	LEVEL 2 - INTERIOR ELEVATIONS - NORTH
A826	INT. ELEVATIONS - GREEN ROOM & EXTERIOR ELEV.
A901	LEVEL 1 - ENLARGED FINISH PLANS
A902	LEVEL 1 - ENLARGED FINISH PLANS
A903	LEVEL 2 - ENLARGED FINISH PLAN & PERSPECTIVES

SHEET INDEX

S100	GENERAL NOTES
S101	STRUCTURAL FOUNDATION PLAN - NORTH
S102	STRUCTURAL FOUNDATION PLAN - SOUTH & EAST
S103	STRUCTURAL FOUNDATION PLAN - GARAGE PLAN
M000	MECHANICAL SYMBOLS AND ABBREVIATIONS
MD101	LEVEL 1 - OVERALL DEMO PLAN
MD102	LEVEL 2 - OVERALL DEMO PLAN
MD201	LEVEL 1 - ENLARGED DEMO PLANS - SOUTH, EAST & GARAGE
MD202	LEVEL 1 - ENLARGED DEMO PLANS - NORTH & WEST
MD203	LEVEL 2 - ENLARGED DEMO PLANS
M101	LEVEL 1 OVERALL FLOOR PLAN
M102	LEVEL 2 OVERALL FLOOR PLAN
M201	LEVEL 1 - ENLARGED FLOOR PLANS - SOUTH, EAST & GARAGE
M202	LEVEL 1 - ENLARGED FLOOR PLANS - NORTH & WEST
M203	LEVEL 2 - ENLARGED FLOOR PLANS - NORTH
M401	MECHANICAL DETAILS
M501	MECHANICAL SCHEDULES
P000	PLUMBING SYMBOLS & ABBREVIATIONS
PD101	LEVEL 1 - OVERALL DEMO PLAN
PD102	LEVEL 2 - OVERALL DEMO PLAN
PD201	LEVEL 1 - ENLARGED DEMO PLUMBING FLOOR PLAN
PD202	LEVEL 1 - ENLARGED DEMO PLUMBING FLOOR PLAN
PD203	LEVEL 2 - ENLARGED DEMO PLUMBING FLOOR PLAN
P101	LEVEL 1 - OVERALL FLOOR PLAN
P102	LEVEL 2 OVERALL FLOOR PLAN
P201	LEVEL 1 - ENLARGED PLUMBING FLOOR PLANS
P202	LEVEL 1 - ENLARGED PLUMBING FLOOR PLANS
P203	LEVEL 2 - ENLARGED PLUMBING FLOOR PLANS
P301	PLUMBING RISER DIAGRAMS
P401	PLUMBING DETAILS
P402	PLUMBING DETAILS
P501	PLUMBING SCHEDULES
E000	ELECTRICAL SYMBOLS AND ABBREVIATIONS PAGE
ED101	LEVEL 1 - OVERALL DEMOLITION PLAN
ED201	LEVEL 1 - LIGHTING DEMOLITION PLAN
ED202	LEVEL 1 - LIGHTING DEMOLITION PLAN
ED203	LEVEL 2 - LIGHTING DEMOLITION PLAN
ED301	LEVEL 1 - POWER DEMOLITION PLAN
ED302	LEVEL 1 - POWER DEMOLITION PLAN
ED303	LEVEL 2 - POWER DEMOLITION PLANS
E100	LEVEL 1 - OVERALL ELECTRICAL PLAN
E200	LEVEL 2 - OVERALL ELECTRICAL PLAN
E201	LEVEL 1 - ENLARGED LIGHTING PLANS - SOUTH, EAST & GARAGE
E202	LEVEL 1 - ENLARGED LIGHTING PLANS - NORTH & WEST
E203	LEVEL 2 - ENLARGED LIGHTING PLANS - NORTH & STAFF
E301	LEVEL 1 - ENLARGED POWER PLANS - SOUTH, EAST & GARAGE
E302	LEVEL 1 - ENLARGED POWER PLANS - NORTH & WEST
E303	LEVEL 2 - ENLARGED POWER PLANS - NORTH & STAFF
E501	ELECTRICAL RISER DIAGRAM AND SCHEDULES
E601	ELECTRICAL DETAILS
E801	ELECTRICAL PANEL SCHEDULES
E802	ELECTRICAL PANEL SCHEDULES
Grand total: 91	

Project Number: 20027

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Austin, TX 78744
512.445.2090

ACCESSIBILITY:
Contour Collective
Elaine Anderson
512.415.6000

COMMISSIONING AUTHORITY:
Goodwin Engineering Inc.
115 East Third Street
Taylor, TX 76574
512.349.9667

THE FOLLOWING SECTION OF DETAILS PROVIDES INFORMATION ON REQUIREMENTS FOR DISABLED ACCESSIBILITY. THE REQUIREMENTS COMBINE MINIMUM REQUIREMENTS OF STATE
AND FEDERAL AGENCIES. THE PURPOSE OF THIS SECTION IS TO HELP AVOID INSTALLATION OF MATERIALS ON CONSTRUCTION PROJECTS THAT WOULD LIMIT ACCESSIBILITY. THE SCOPE OF THIS SECTION IS LIMITED AND THE INDIVIDUALS WORKING ON THE PROJECT SHOULD FAMILIARIZE THEMSELVES WITH TEXAS ACCESSIBILITY STANDARD (TAS) AND AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) FOR ADDITIONAL INFORMATION AND REQUIREMENTS. COPIES OF THESE DOCUMENTS MAY BE OBTAINED BY CONTACTING THE FOLLOWING:

TAS:
TEXAS DEPT. OF LICENSING & REGULATION
P.O. BOX 12157
AUSTIN, TEXAS 78711
(800) 803-9202
TDD (800) 735-2989
www.license.state.tx.us

ADAAG:
SOUTHWEST DISABILITY AND BUSINESS TECHNICAL ASSISTANCE CENTER FOR REGION VI.
2323 S. SHEPERD, SUITE 1000
HOUSTON, TEXAS 77019
ADA HOTLINE:
(800) 949-4232
TDD: (713) 520-5136
(713) 520-0232
FAX: (713) 520-5785

IN THE EVENT THE INFORMATION ON THE PLAN SHEETS DOES NOT MEET THE MINIMUM REQUIREMENTS OF THE SECTION, THEN THE INFORMATION SHALL BE PRESENTED TO THE ARCHITECT FOR CLARIFICATION PRIOR TO CONSTRUCTION OF SPECIFIC AREA OF WORK.

ELIMINATION OF ARCHITECTURAL BARRIERS UNIFORM FEDERAL ACCESSIBILITY STANDARDS (ADA)

In accordance with accessibility requirements, the following standards shall be included when bidding on projects involving renovation of or new facilities for public accommodation or commercial facilities. Any items not conforming to these or any other standards, codes, or ordinances shall be brought to the attention of the project architect for this interpretation. In the event the information listed in this document conflicts with any portion of the work described in the Contract Documents, the contractor shall notify the architect, in writing, of his need for a solution to resolve the conflict. The mounting heights indicated are for items that require accessibility by disabled individuals. Where two or more items are grouped in one area (mirrors, sinks, toilets, drinking fountains, urinals, shelves, telephones, etc.) not all items in the area have to be mounted at handicap height.
Contractor to coordinate these installation heights with other materials for neat, trimmed out and finished appearance. Items for disabled individual use shall be mounted at height indicated for age level as noted.

CHAPTER 1: APPLICATION AND ADMINISTRATION

TAS SECTION 104 - CONVENTIONS
A. All dimensions are subject to conventional industry tolerances except where the requirement is stated as a range with specific minimum and maximum points.
B. Unless specifically stated otherwise, figures are provided for informational purposes only.

CHAPTER 2: SCOPING REQUIREMENTS

TAS SECTION 201.1 - SCOPE
A. All areas of newly designed and newly constructed buildings and facilities an altered portions of existing buildings and facilities shall comply with these requirements.

TAS SECTION 202 - EXISTING BUILDINGS AND FACILITIES
A. Each addition to an existing building or facility shall comply with the requirements for new construction. Each addition that affects or could effect the usability of or access to an area containing a primary function shall comply with 202.4
B. Where existing elements, spaces, or common use areas are altered, each altered element, space, or common use area shall comply with the applicable requirements of Chapter 2.
C. An alteration that decreases the accessibility of a building or facility below the requirements for new construction at the time of the alteration is prohibited.
D. An alteration of an existing element, space, or area of a building or facility shall not impose a requirement for accessibility greater than required for new construction.
E. Alterations that affect the usability or access to an area containing a primary function shall be made so as to ensure usage by individuals with disabilities.

TAS SECTION 204 - PROTRUDING OBJECTS
A. Within areas of accessible elements, accessible routes, and in accessible room and space shall comply with 309.
B. Within areas of sports activity, protruding objects on circulation paths shall not be required to comply with 307.
B. Within play areas, protruding objects on circulation paths shall not be required to comply with 307 provided that ground level accessible routes provide vertical clearance in compliance with 1008.2.

TAS SECTION 205 - OPERABLE PARTS
A. Operable parts on accessible elements, accessible routes, and in accessible rooms and spaces shall comply with 309.
B. Operable parts intended for use only by service or maintenance personnel shall not be required to comply with 309.
C. Electrical or communication receptacles serving a dedicated use shall not be required to comply with 309.

TAS SECTION 206 - ACCESSIBLE ROUTES
A. At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve.
B. At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site.
C. At least one accessible route shall connect each story and mezzanine in multi-story buildings and facilities.
D. In restaurants and cafeterias, an accessible route shall be provided to all dining areas, including raised or sunken dining areas, and outdoor dining areas.
E. Where a circulation path directly connects a performance area to an assembly area, an accessible route shall directly connect the assembly seating area with the performance area. An accessible route shall be provided from performance areas to ancillary areas or facilities used by performers.

TAS SECTION 207 - ACCESSIBLE MEANS OF EGRESS
A. Means of egress shall comply with section 1003.2.13 of the International Building Code (2000 edition and 2001 Supplement) or section 1007 of the International Building Code (2003 edition.)
B. Standby power shall be provided for platform lifts permitted by section 1003.2.13.4 of the International Building Code (2000 edition and 2001 supplement) or section 1007.5 of the International Building Code (2003 edition) to serve as a part of an accessible means of egress.

TAS SECTION 208 - PARKING SPACES
A. Parking Spaces shall comply with 502 and shall be provided in accordance with Table 208.2 except required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

Table 208.2 Parking Spaces

TOTAL PARKING IN LOT	MIN. NUMBER OF ACCESSIBLE SPACES REQUIRED	TOTAL PARKING IN LOT	MIN. NUMBER OF ACCESSIBLE SPACES REQUIRED
1 TO 25	1	201 TO 300	7
26 TO 50	2	301 TO 400	8
51 TO 75	3	401 TO 500	9
76 TO 100	4	501 TO 1000	2 PERCENT OF TOTAL
101 TO 150	5	1000 AND OVER	20, PLUS 1 FOR EACH 100, OR FRACTION THEREOF, OVER 1000
151 TO 200	6		

TAS SECTION 208.2.4 - VAN PARKING SPACES
A. For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.

TAS SECTION 208.3 - LOCATION
A. Parking spaces complying with 502 that serve a particular building or facility shall be located on the shortest possible accessible route from parking lot to an entrance. Where parking serves more than one accessible entrance, parking spaces complying with 502 shall be dispersed and located at the shortest accessible route to the accessible entrances.

TAS SECTION 209 - PASSENGER LOADING ZONES AND BUS STOPS
A. Passenger loading zones, except those required to comply with 209.2.2 and 209.2.3, shall provide at least one passenger loading zone complying with 503 in every continuous 100 linear feet (30m) of loading zone space, or fraction thereof.
B. In bus loading zones restricted to use by designated or specified public transportation vehicles,each bus bay, bus stop, or other area designated for lift or ramp deployment shall comply with 810.2

TAS SECTION 210 - STAIRWAYS
A. Interior and exterior stairs that are part of a means of egress shall comply with 504. Although handrails on stairs that are not part of a means of egress, State or local building codes may require handrails or guards.

TAS SECTION 211 - DRINKING FOUNTAINS
A. No fewer than two drinking fountains shall be provided.
B. More than the minimum number of drinking fountains specified in 211.2 are provided, 50 percent of the total number of drinking fountains provided shall comply with 602.1 through 602.6, and 50 percent of the total number of drinking fountains provided shall comply with 602.7

TAS SECTION 212 - KITCHENS, KITCHENETTES, AND SINKS
A. Kitchens and kitchenettes shall comply with 804.
B. Where sinks are provided, at least 5 percent, but no fewer than one, of each type provided in each accessible room or space shall comply with 606.

TAS SECTION 213 - TOILET FACILITIES AND BATHING FACILITIES
A. Where toilet facilities and bathing facilities are provided, they shall comply with 213. Toilet facilities and bathing facilities shall be provided on a story connected by an accessible route to an accessible entrance.
B. Toilet restrooms and bathing rooms shall comply with 603.
C. Where multiple single user toilet rooms are clustered at a single location, no more than 50% of the single user toilet rooms for each use at each cluster shall be required to comply with 603.
D. Unisex toilet rooms and unisex bathing rooms shall contain not more than one lavatory, and two water closets without urinals or one water closet and one urinal. Unisex bathing rooms contain one shower or one shower and one bathtub, one lavatory, and one water closet. Doors to unisex restrooms and bathing rooms shall have privacy latches.

TAS SECTION 214 - WASHING MACHINES AND CLOTHES DRYERS
A. Where three or fewer washing machines are provided, at least one shall comply with 611. Where more than three washing machines are provided, at least two shall comply with 611.
B. Where three or fewer clothes dryers are provided, at least one shall comply with 611. Where more than three clothes dryers are provided, at least two shall comply with 611.

TAS SECTION 215 - FIRE ALARM SYSTEMS
A. Alarms in public use areas and common use areas shall comply with 702.
B. Where employee work areas have audible alarm coverage, the wiring system shall be designed so that the visible alarms complying with 702 can be integrated into the alarm system.

CHAPTER 2: SCOPING REQUIREMENTS (CONTINUED)

TAS SECTION 216 - SIGNS
A. Signs shall comply with 703. Building directories, menus, seat and row designations in assembly areas, occupant names, building addresses, and company names and logos shall not be required to comply with 216.
B. Signs required by section 1003.2.13.5.4 of the International Building Code (2000 edition) or section 1007.6.4 of the International Building Code (2003 edition) to provide instructions in areas of refuge shall comply with 703.5
C. Directional signs required by section 1003.2.13.6 of the International Building Code (2000 edition) or section 707.7 of the International Building Code (2003 edition) to provide directions to accessible means of egress shall comply with 703.5
D. Where not all entrances comply with 404, entrances complying with 404 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1 Directional signs complying with 703.5 that indicate the location of the nearest entrance complying with 404 shall be provided at entrances that do not comply with 404.

TAS SECTION 217 - TELEPHONES
A. Where public telephone are provided, wheelchair accessible telephones complying with 704.2 shall be provided.

TAS SECTION 219 - ASSISTIVE LISTENING SYSTEMS
A. In each assembly area where audible communication is integral to the use of the space, an assistive listening system shall be provided.
B. Where all seats in an assembly area are served by an introduction loop assistive learning system, the minimum number of receivers required by table 219.3 to be hearing-aid compatible shall not be required to be provided.

TAS SECTION 220 - AUTOMATIC TELLER MACHINES AND FARE MACHINES
A. Where automatic teller machines or self-service fare vending, collection, or adjustment machines are provided, at least one of each type provided at each location shall comply with 707. Where bins are provided for envelopes, waste paper, or other purposes, at least one of each shall comply with 811.

TAS SECTION 221 - ASSEMBLY AREAS
A. Assembly areas shall provide wheelchair spaces, companion seats, and designated aisle seats complying with 221 and 802.
B. Wheelchair spaces complying with 802.1 shall be provided in accordance with table 221.2.1.1.
C. Wheelchair spaces shall be an integral part of the seating plan.
D. Wheelchair spaces shall provide lines of sight complying with 802.2. In providing lines of sight, wheelchair spaces shall be dispersed. Wheelchair spaces shall provide spectators with choices of seating locations or viewing angles equal to or better than seating locations and viewing angles of other spectators.
E. At least 5% of the total number of aisle seats provided shall comply with 802.4 and shall be the aisle seats located closest to the accessible routes.

Table 221.2.1 Number of Wheelchair Spaces in Assembly Areas

NUMBER OF SEATS	MIN. NUMBER OF WHEELCHAIR SPACES REQUIRED	NUMBER OF SEATS	MIN. NUMBER OF WHEELCHAIR SPACES REQUIRED
4 TO 25	1	501 TO 5000	6, plus 1 for each 150, or fraction thereof, between 501 through 5000
26 TO 50	2		
51 TO 150	4	5001 AND OVER	36, plus 1 for each 200, or fraction thereof, over 5000
151 TO 300	5		
301 TO 500	6		

TAS SECTION 222 - DRESSING, FITTING, AND LOCKER ROOMS
A. Where dressing rooms, fitting rooms, or locker rooms are provided, at least 5%, but no fewer than one, of each type of use in each cluster provided shall comply with 803.
B. Where coat hooks or shelves are provided in dressing fitting or locker rooms w/o individual compartments, at least one of each type shall comply with 803.5. Where coat hooks or shelves are provided in individual compartments at least one of each type shall be provided in accordance with 223.

TAS SECTION 223 - MEDICAL CARE AND LONG-TERM CARE FACILITIES
A. In licensed medical care facilities and licensed long-term care facilities where the period of stay exceeds twenty-four hours, patient or resident sleeping rooms shall be provided in accordance with 223. Toilet rooms part of critical or intensive care patient sleeping rooms shall not be required to comply with 603.

TAS SECTION 224 - TRANSIENT LODGING FACILITIES AND GUEST ROOMS
A. Transient lodging facilities shall provide guest rooms in accordance with 224. Places of lodging and housing at a place of education shall comply with the provisions applicable to transient lodging,including, but not limited to, the requirements for transient lodging guest rooms in sections 224 and 806.
B. Entrances, doors, and doorways providing user passage into and within the guest rooms that are not required to provide mobility features complying with 806.2 shall comply with 404.2.3.
C. In guest rooms having more than 25 beds, 5% minimum of the beds shall have clear floor space complying with 806.2.3.

TAS SECTION 225 - STORAGE
A. Where storage is provided, at least one of each type shall comply with 811.
B. Where lockers are provided, at least 5%, but no fewer than one of each type, shall comply with 811.

TAS SECTION 226 - DINING SURFACES AND WORK SURFACES
A. Where dining surfaces are provided for the consumption of food or drink, at least 5% of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5% shall comply with 902.

TAS SECTION 227 - SALES AND SERVICE
A. Where provided, check-out aisles, sales counters, service counters, food service lines, queues, and waiting lines shall comply with 227 and 904.
B. Where counters are provided, at least one of each type of sales counter and service counter shall comply with 904.4. Where counters are dispersed throughout the facility, counters complying with 904.4 shall also be dispersed.
C. Queues and waiting lines servicing counters or check-out aisles required to comply with 904.3 or 904.4 shall comply with 403.

TAS SECTION 228 - DEPOSITORIES, VENDING MACHINES, CHANGE MACHINES, MAIL BOXES
A. Where provided, at least one of each type of depository, vending machine, change machine, and fuel dispenser shall comply with 309.
B. Where mail boxes are provided in an interior location, at least 5%, but no fewer than one of each type shall comply with 309.

TAS SECTION 229 - WINDOWS
A. Where glazed openings are provided in accessible rooms or spaces for operation by occupants, at least one must opening shall comply with 309. Each glazed opening required by an administrative authority to be operable shall comply with 309.

TAS SECTION 230 - TWO-WAY COMMUNICATION SYSTEMS
A. Where a two-way communication system is provided to gain admittance to a building or facility or to be restricted areas within a building or facility, the system shall comply with 708.

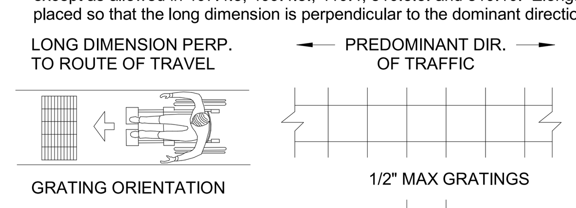
TAS SECTION 240 - PLAY AREAS
A. Where ground level play components are provided, at least one of each type shall be on an accessible route and shall comply with 1008.4.
B. When elevated play components are provided, at least 50% shall be on an accessible route and shall comply with 1008.4

TAS SECTION 242 - SWIMMING POOLS, WADING POOLS, AND SPAS
A. At least two accessible means of entry shall be provided for swimming pools.
B. At least one accessible means for entry for wading pools and spas.

TAS SECTION 243 - SHOOTING FACILITIES WITH FIRING POSITIONS
A. Where shooting facilities with firing positions are designed and constructed at a site, at least 5%,but no fewer than one of each type of firing position shall comply with 1010.

CHAPTER 3: BUILDING BLOCKS

TAS SECTION 302 - FLOOR OR GROUND SURFACES
A. Floor and ground surfaces shall be stable, firm, and slip resistant.
B. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2" maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge.
C. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2" diameter except as allowed in 407.4.3, 409.4.3., 410.4, 810.5.3. and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.



SIDEWALKS & RAMPS (SLOPES, EDGE PROTECTION, HANDRAIL EXTENSIONS, AND GRATING)

TAS SECTION 303 - CHANGES IN LEVEL
A. Changes in level of 1/4" high maximum shall be permitted to be vertical. (Fig. 303)
B. Changes in level between 1/4"-1/2" maximum shall be beveled at a slope not steeper than 1:2 (Fig. 303)
C. Changes in level greater than 1/2" high shall be ramped and comply with 405 or 406

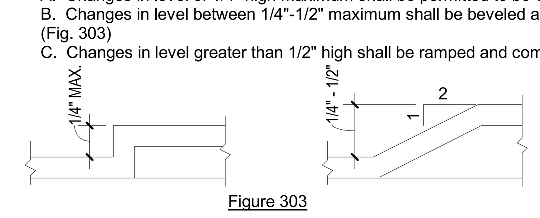


Figure 303

TAS SECTION 304 - TURNING SPACE
A. The turning space shall be a space 60" diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.
B. Slopes steeper than 1:48 are not permitted.
C. Doors shall be permitted to swing into turning spaces.
D. The T-shaped turning space shall be a T-shaped space within a 60" square minimum with arms and base 36" wide minimum. Each arm of the T shall be clear of obstructions 12" minimum in each direction and the base shall be clear of obstructions 24" minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm. (Fig. 304.3.2)

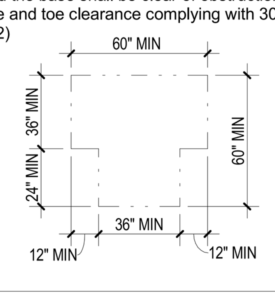


Figure 304.3.2 T-shaped turning space

CHAPTER 3: BUILDING BLOCKS (CONTINUED)

TAS SECTION 305 - CLEAR FLOOR OR GROUND SPACE
A. The clear floor or ground space shall be 30" minimum by 48" minimum.
B. Floor of ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted. Slopes steeper than 1:48 are not permitted.
C. The clear floor or ground space shall be 30" minimum by 48" minimum. (Fig. 305.3)
D. Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearances complying with 306.
E. Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element. (Fig. 305.5)
F. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.
G. Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with below:
1. Alcoves shall be 36" wide minimum where the depth exceeds 24" for forward approach (Fig. 315.7.1)
2. Alcoves shall be 60" wide minimum where the depth exceeds 15" for parallel approach (Fig. 305.7.2)

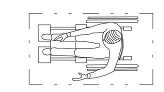


Figure 305.3 Clear floor or ground space

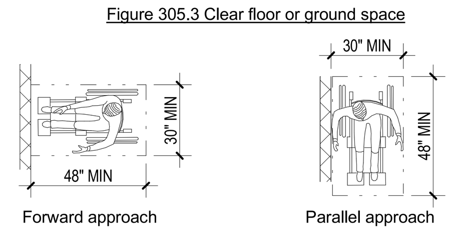


Figure 305.5 Position of clear floor or ground space

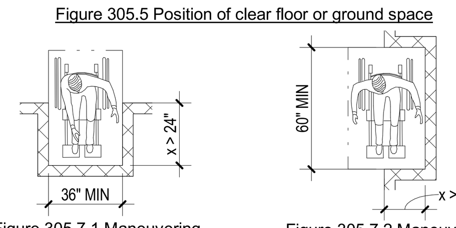


Figure 305.7.1 Maneuvering clearance in an alcove, forward approach

Figure 305.7.2 Maneuvering clearance in an alcove, parallel approach

TAS SECTION 306 - KNEE AND TOE CLEARANCE
A. Where space beneath an element is included as part of clear floor or ground space or turning space, the space shall comply with 306. Additional space shall not be prohibited beneath an element but shall not be considered as part of the clear floor or ground space or turning space.

TAS SECTION 306.2 - TOE CLEARANCE
A. Space under an element between the finish floor or ground and 9" above the finish floor or ground shall be considered toe clearance.
B. Toe clearance shall extend 25" maximum under an element
C. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17" minimum under the element.
D. Space extending greater than 6" beyond the available knee clearance at 9" above the finish floor or ground shall not be considered toe clearance.
E. Toe Clearance shall be 30" wide minimum.

TAS SECTION 306.3 - KNEE CLEARANCE
A. Space under an element 9"-27" above the finish floor shall be considered knee clearance.
B. Knee clearance shall extend 25" maximum under an element at 9" above the finish floor.
C. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11" deep minimum at 9" above the finish floor or ground, and 8" deep minimum at 27" above finish floor or ground.
D. Between 9"-27" above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1" in depth for each 6" in height.
E. Knee clearance shall be 30" wide minimum.

TAS SECTION 307 - PROTRUDING OBJECTS
A. Objects projecting from walls with leading edges more than 27" and not more than 80" above the finish floor shall protrude no more than 4" horizontally into the circulation path.
B. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12" max when located 27"-80" above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12", the lowest edge of such sign or obstruction shall be 27"-80" above the finish floor.
C. Vertical clearance shall be 80" high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80" high. The leading edge of such guardrail or barrier shall be located 27" maximum above the finish floor.

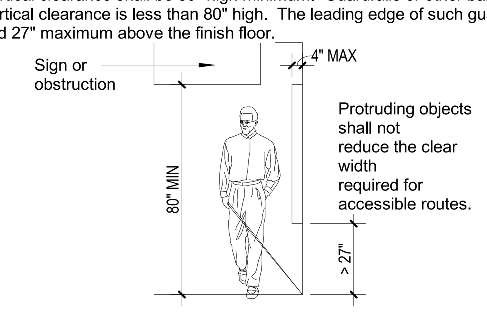


Figure 307.2 Limits of protruding objects

TAS SECTION 308 - REACH RANGES
A. Refer to "Age Based dimensional information" table for children's reach ranges.

TAS SECTION 308.2 - FORWARD REACH
A. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the finish floor or ground. (Fig. 308.2.1)
B. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum. (Fig. 308.2.2)

TAS SECTION 308.3 - SIDE REACH
A. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the finish floor or ground. (Fig. 308.2.1)
1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10" maximum.
B. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall be 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum. (Fig. 308.2.3)
1. The top of washing machines and clothes dryers shall be permitted to be 36" maximum above the finish floor.

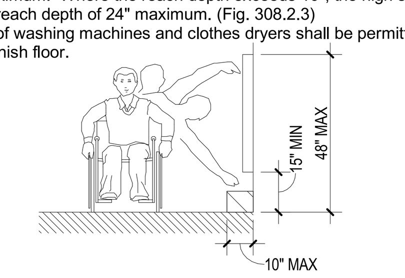


Figure 308.2.1 Unobstructed forward/side reach

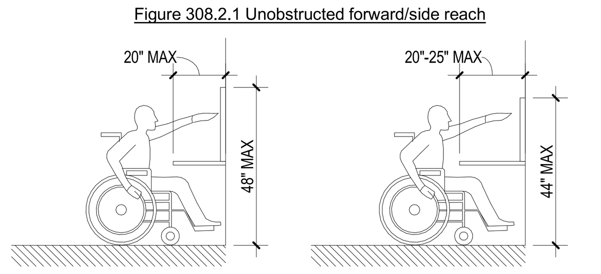


Figure 308.2.2 Obstructed high forward reach

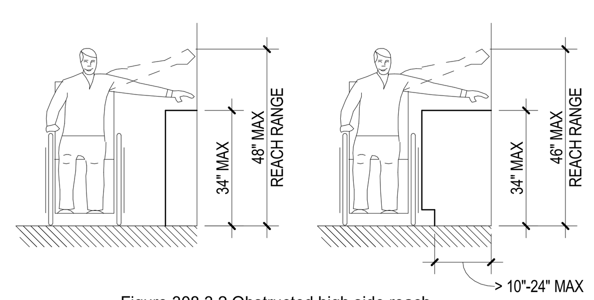


Figure 308.3.2 Obstructed high side reach

TAS SECTION 309 - OPERABLE PARTS
A. A clear floor space complying with 305 shall be provided.
B. Operable parts shall be placed within one or more of the reach ranges specified in 308.
C. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds maximum.

CHAPTER 4: ACCESSIBLE ROUTES

TAS SECTION 402 - ACCESSIBLE ROUTES
A. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts.

TAS SECTION 403 - WALKING SURFACES
A. All surfaces shall comply with 302. Changes in level shall comply with 303.
B. The running slope shall not be steeper than 1:20. The cross slope of the walking surfaces shall not be steeper than 1:48.
C. The clear width of walking surfaces shall be 36" minimum.
1. The clear width shall be permitted to be reduced to 32" minimum for a length of 24" maximum provided that reduced width segments are separated by segments that are 48" long minimum and 36" wide minimum.
D. Where the accessible route makes a 180° turn around an element less than 48" wide, the clear width shall be 42" minimum approaching the turn, 48" minimum at the turn and 42" minimum leaving the turn.
E. Where the accessible route makes a 180° turn around an element less than 48" wide and the clear width at the end of the turn is 60" minimum, the clear width may be 36" approaching and leaving the turn.
F. An accessible route with a clear width less than 60" shall provide passing spaces at intervals of 200' maximum. Passing spaces shall either be 60"x60" or comply with 304.3.2 where the base and arms of the T-shaped space extend 48" minimum beyond the intersection.

TAS SECTION 404 - DOORS, DOORWAYS, AND GATES
A. Doorways shall provide a clear opening of 32" minimum, with the door open 90°. (Fig. 404.2.3)
1. Clear opening shall be measured between the face of the door and opposite stop.
2. Openings more than 24" in depth shall provide a clear opening of 36" minimum.
3. There shall be no projections into the required clear opening width lower than 34" above the finish floor or ground. Projections into the clear opening width between 34"-80" AFF shall not exceed 4".

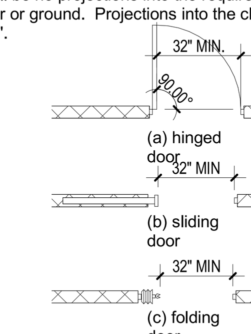
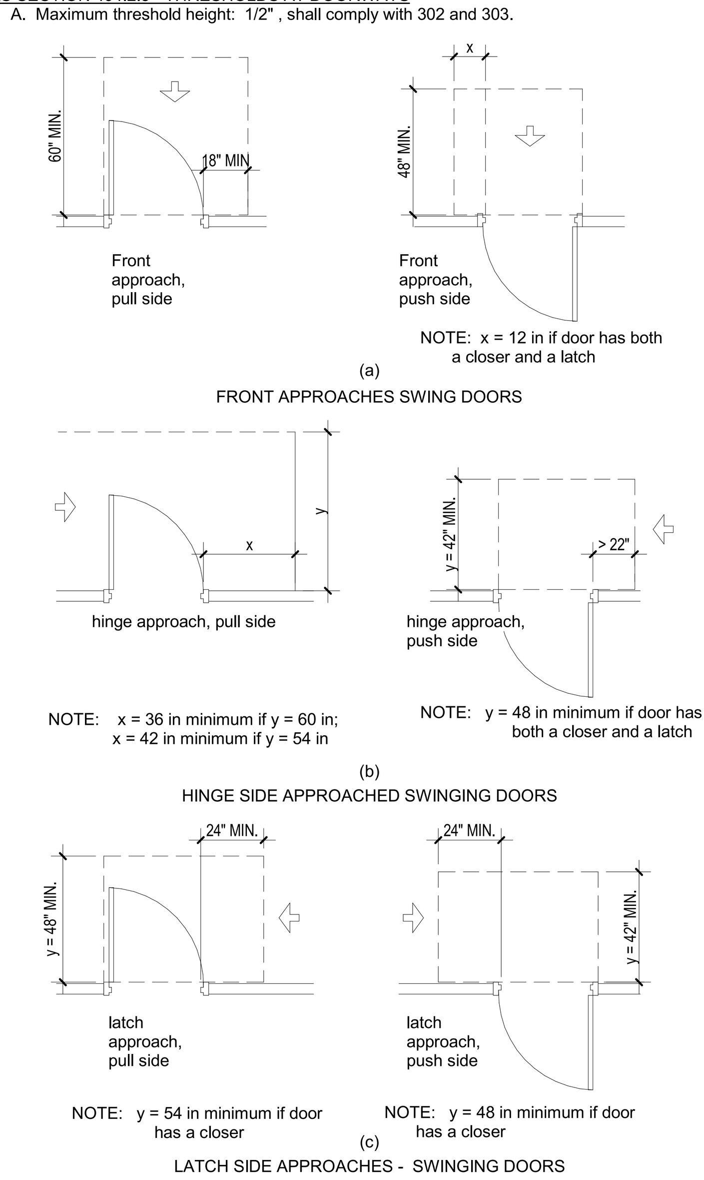


Figure Clear width at doorways

TAS SECTION 404.2 - MANEUVERING CLEARANCES AT DOORS
A. Front approach pull side - 60" min. width & 18" min. beside strike edge . Front approach push side - 48" min. width & 0" beside strike edge. (12" @ strike if door has both a closer and a latch) (Fig. 404.2.4.1 (a))
B. Hinge side approach pull side - 60" min. width, 36" min. beside strike edge; or 54" min. width, 42" min. beside strike edge. Hinge side approach push side - 42" min. width and 22" min. beside hinge edge (48" min. width if door has both a closer and a latch) (Fig. 404.2.4.1 (b))
C. Latch side approach pull side - 48" min. width and 24" min. beside strike edge (54" min. width if door has a closer); Latch side approach push side - 42" min. width and 24" min. beside strike edge (48" min. width if door has a closer) (Fig. 404.2.4.1 (c))

TAS SECTION 404.2.5 - THRESHOLDS AT DOORWAYS
A. Maximum threshold height: 1/2" , shall comply with 302 and 303.



NOTE: all doors in alcoves or recesses shall comply with the clearance for front approaches, per 404.2.4.3

Figure 404.2.4.1 Maneuvering clearances at manual swinging doors and gates

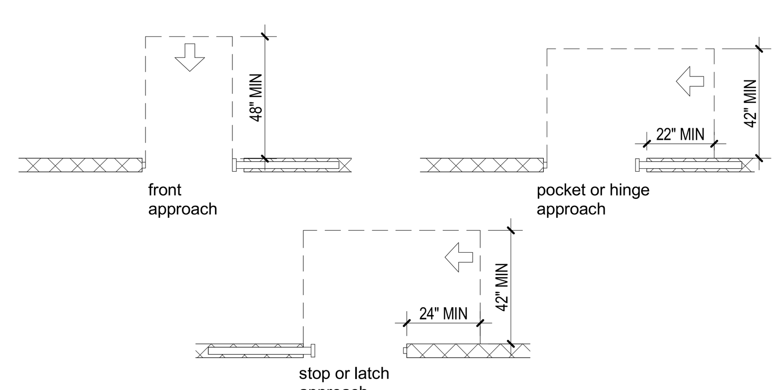


Figure 404.2.4.2 Maneuvering clearances at doorways without doors, sliding doors, gates, and folding doors

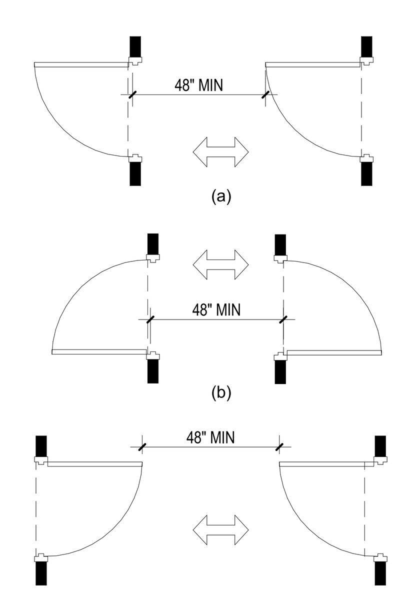


Figure 404.2.6 Doors in series and gates in series

CHAPTER 4: ACCESSIBLE ROUTES (CONTINUED)

TAS SECTION 404.2.7 - DOOR AND GATE HARDWARE
A. Handles, pulls, latches, locks, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Hardware required for accessible door passage shall be mounted 34"-48" above finished floor or ground.

TAS SECTION 404.2.8.1 - DOOR CLOSERS AND GATE CLOSERS
A. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 90°, the door will take at least 5 seconds to move the door 12° from the latch.

TAS SECTION 404.2.9 - DOOR AND GATE OPENING FORCE
A. The maximum force for pushing or pulling open a door shall be as follows:
1. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.
2. Other doors
a. Exterior hinged doors: no requirement.
b. Interior hinged doors: 5.0 lb.
c. Sliding or folding doors: 5.0 lb.
These forces do not apply to the force required to retract latch bolts or disengage other devices that may hold the door in a closed position.

TAS SECTION 404.2.11 - VISION LIGHTS
A. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43" maximum above the floor.

TAS SECTION 405 - RAMPS (See table 405.2 for existing conditions)
A. Ramp runs shall have a slope not steeper than 1:12. In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not have to comply with 405. Cross ramp shall not be steeper than 1:48.
B. The clear width of the ramp run and the clear width between handrails where handrails are provided shall be 36" minimum.
C. The rise for any ramp shall be 30" maximum. The least possible slope shall be used for any ramp.
D. Level landings required at top and bottom of each run, with the following features:
1. Minimum Width: Equal to width of ramp
2. Length: Minimum 60" clear
3. At change of direction landing shall be 60" x 60" min.
E. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

TAS SECTION 405.8 - HANDRAILS
A. Handrails are required at all ramps with > 6" rise.
B. Height: 34"-38" above ramp surface
C. The clear space between the handrail and the wall shall be 1 1/2" minimum.

TAS SECTION 405.9 - EDGE PROTECTION
A. Ramps and landings with drop offs in excess of 1/2" shall have curbs, walls, railings, or projecting surfaces that prevent slipping off the ramp.
B. A curb or barrier shall be provided that prevents the passage of a 4" diameter sphere, where any portion of the sphere is within 4" of the finish floor or ground surface.
C. The extended floor or ground surface of the ramp run or landing shall extend 12" minimum beyond the inside face of a handrail complying with 505. (see Figure 405.9.1)

TABLE 405.2 Maximum ramp slope & rise for Existing Conditions

SLOPE	MAXIMUM RISE
steeper than 1:10, but not steeper than 1:8	3"
steeper than 1:12, but not steeper than 1:10	6"
CROSS SLOPE SHALL NOT EXCEED 1:48	

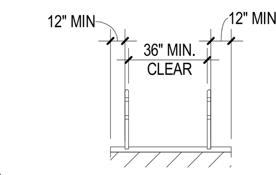
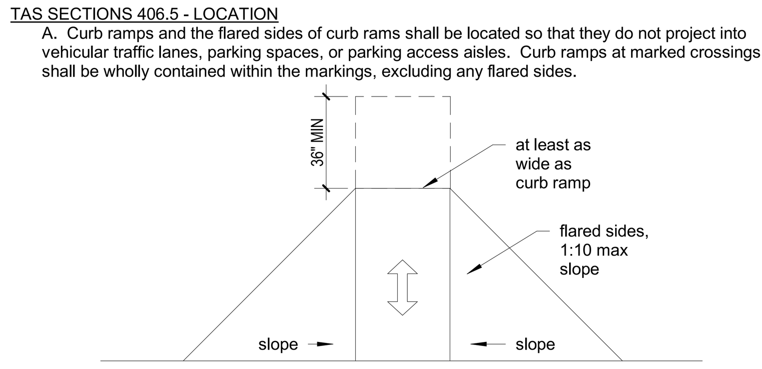


Figure 405.9.1 Extended floor or ground surface edge protection

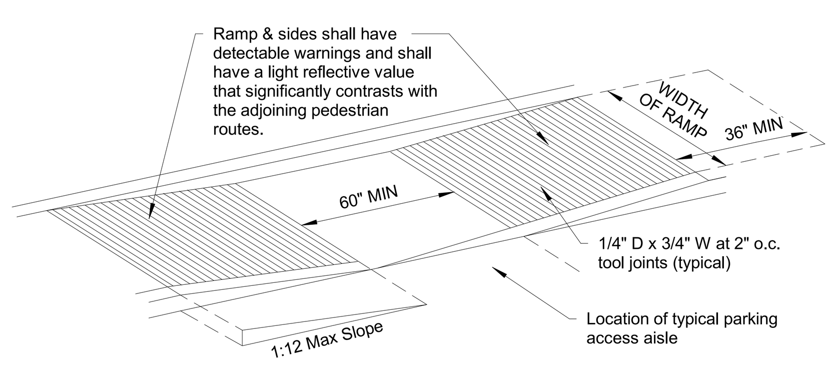
TAS SECTION 406 - CURB RAMPS
A. Curb ramps shall comply with 405.2 - 405.5, 405.10
B. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

TAS SECTION 406.4 - LANDINGS
A. Landings shall be provided at the tops of curb ramps. the landing clear length shall be 36" minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing. (Fig. 406.4)

TAS SECTIONS 406.5 - LOCATION
A. Curb ramps and the flared sides of curb rams shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.



Standard Curb Ramp



Curb Ramp Parallel to Curb

Figure 406.4 Landings at the top of curb ramps

TAS SECTION 406.6 - DIAGONAL CURB RAMPS
A. If diagonal curb ramps have returned curbs or other well-defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. If diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. Diagonal curb ramps with flared sides shall have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.

TAS SECTION 4.7.11 - ISLANDS
A. Any raised islands in crossings shall be cut through level with the street or curb ramps at both sides and a level area at least 48" long by 36" wide minimum between the curb ramps in the part of the island intersected by the crossings. Each minimum 48" x 36" area shall be oriented so that the 48" minimum length is in the direction of the running slope of the curb ramp it serves.

TAS SECTION 407 - ELEVATORS
A. Elevators shall comply with ASME A17.1. They shall be passenger elevators as classified by ASME A17.1 Elevator operation shall be automatic.

TAS SECTION 407.2 - ELEVATOR LANDING REQUIREMENTS
A. Call buttons shall be raised or flush and located within one of the reach ranges specified in 308, measured to the centerline of the highest operable point.
1. Call buttons shall be 3/4" minimum in the smallest dimension.
2. A clear floor space complying with 305 shall be provided at the controls.
3. The call button that designates the up direction shall be located above the call button that designates the down direction.
4. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.
B. Keypads shall be in a standard telephone keypad arrangement.
C. Visible and audible signals shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.
1. Visible signal features shall be centered 72" minimum above the finish floor or ground. The visible signal elements shall be 2 1/2" minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.
2. Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500Hz max. Verbal annunciators shall have a frequency of 300 Hz min - 3000 HZ max.
D. Floor designation shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2" high minimum. A tactile star shall be provided on both jambs at the main entry level.

TAS SECTION 407.3 - ELEVATOR DOOR REQUIREMENTS
A. Elevator doors shall be horizontal sliding type. Car gates are prohibited.
B. Elevator doors shall be provided with a reopening device that shall stop and open a door and hoistway door automatically if the door becomes obstructed by an object or person.
1. The device shall be activated by sensing an obstruction passing through the opening at 5" nominal and 29" nominal above the finish floor.
2. The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses. Door reopening devices shall remain effective for 20 seconds minimum.
3. Elevator doors shall remain fully open in response to a car call for 3 seconds minimum.

TAS SECTION 410 - PLATFORM LIFTS
A. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from lift.
B. The clearance between the platform sill and the edge of any runway landing shall be 1" maximum.
C. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32" minimum. Side doors and gates shall provide a clear 42" width minimum.
NOTE: REQUIRES A VARIANCE FROM THE T.D.L.R. TO USE IN LIEU OF AN ELEVATOR

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Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
TAS ACCESSIBILITY REQUIREMENTS

SHEET NO.
I101

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

TAS SECTION 502 - PARKING SPACES (REFERENCE FIGURE 502.3)

A. Accessible car parking spaces shall be at least 96" minimum wide and van accessible parking shall be 132" minimum wide.
   1. Van parking spaces may be 96" wide minimum where there is an access aisle 96" wide minimum.
   2. Access aisles serving car and van parking shall be a minimum 60" wide and shall adjoin an accessible route.
   3. Access aisles should be marked to discourage people from parking in them and extend the full length of the parking space.

B. Surface slope shall not exceed 1:48 in all directions (Note: no built up curb ramp may be located in an accessible parking access aisle.)

C. Access aisles shall not overlap the vehicular way.

D. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces, which shall have access aisles located on the passenger side of the parking space.

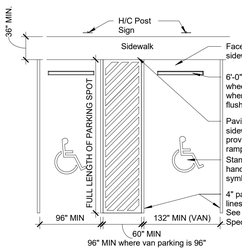
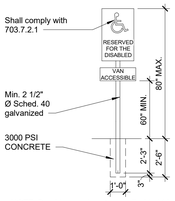


Figure 502.3 Parking space access aisle



NOTE: Provide one sign at each disabled (designated) parking space

TAS SECTION 503 - PASSENGER LOADING ZONES

A. Passenger loading zones shall provide a vehicular pull-up space 96" wide minimum and 20' long minimum.

TAS SECTION 503.3 - ACCESS AISLE (REFERENCE FIGURE 503.3)

A. Passenger loading zones shall provide access aisles complying with 503 adjacent to the vehicle pull up space. Access aisles shall adjoin an accessible route and shall not overlap the vehicular way.
   1. Access aisles serving vehicular pull-up spaces shall be 60" wide minimum and extend the full length of the vehicle pull-up spaces they serve
   2. Slopes steeper than 1:48 are not permitted. Changes in level of the floor and ground surface are not permitted.

B. Vehicle pull-up spaces, access aisles serving them, and a vehicular route from an entrance to the passenger loading zone, and from the passenger loading zone to a vehicular exit shall provide a vertical clearance of 144" minimum.

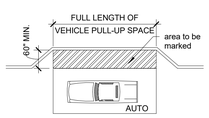


Figure 503.3 Passenger loading zone access aisle

TAS SECTION 504 - STAIRWAYS

TAS SECTIONS 504.2 - TREADS AND RISERS

A. All steps on a flight of stairs shall have uniform riser heights and tread widths
   1. Minimum tread depth shall be 11", measured from riser to riser (not including nosing)
   2. Open risers are not permitted
   3. Risers shall be 4" high min. - 7" high max.

TAS SECTIONS 504.5 - NOSINGS (REFERENCE FIGURE 504.5)

A. Radius of the curvature at the leading edge shall be 1/2" maximum. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1 1/2" maximum over the tread below.

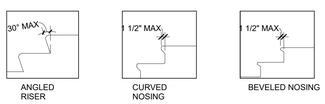


Figure 504.5 Stair nosings

TAS SECTION 505 - HANDRAILS (REFERENCE FIGURES 505.10.1, 505.10.2, 3)

A. Handrails shall be provided on both sides of stairs and ramps. Non-continuous stair handrails shall extend 12" beyond the top riser and the width of one tread beyond the bottom riser. At the top, the extension shall be parallel to the floor. At the bottom, the handrail shall continue to slope for a distance of one tread width. Non continuous ramp handrails shall extend 12" minimum beyond the top and bottom of ramp runs.

B. Height: 34"-38", measured from the stair nosing.

C. Clearance between handrail and adjacent surfaces shall be 1 1/2" minimum.

D. Handrails shall not rotate within their fittings.

E. Handrails are required on ramp runs greater than 6" in rise.

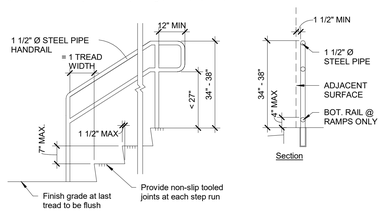


Figure 505.10.2,3 Top and bottom handrail extension at stairs

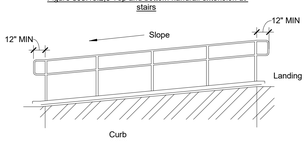


Figure 505.10.1 Top and bottom handrail extension at ramp

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

TAS SECTION 602 - DRINKING FOUNTAINS

A. Drinking fountains shall comply with 307 (protruding objects) and 602.

B. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearances must comply with 306. Operable parts shall comply with 309. (Fig. 602.5)

TAS SECTION 602.4 - SPOUT HEIGHT (REFERENCE FIGURE 602.4 FOR ACCESSIBLE UNIT)

A. Accessible spouts shall be a maximum 36" above the finish floor or ground.

TAS SECTION 602.5 - SPOUT LOCATION (REFERENCE FIGURE 602.5)

A. The spout shall be located 15" minimum from the vertical support and 5" maximum from the front edge of the unit, including bumpers.

B. The spout shall provide a flow of water at least 4" high and shall be located 5" maximum from the front of the unit.

C. Where spouts are located less than 3" from the front of the unit, the water stream shall be 30 degrees maximum. Where the spout is located between 3"-5" maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum.

TAS SECTION 602.7 - DRINKING FOUNTAINS FOR STANDING PERSONS

A. Spout outlets of drinking fountains for standing persons shall be 38" minimum and 43" maximum above the finish floor or ground. (Fig. 602.4)

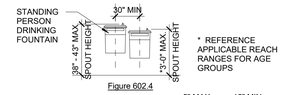


Figure 602.4

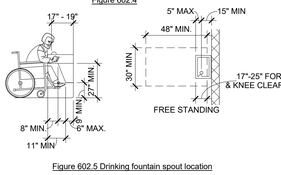


Figure 602.5 Drinking fountain spout location

TAS SECTION 603 - TOILET AND BATHING ROOMS

A. Turning space complying with 304 shall be provided within the room. (60" diameter or T-shaped space per 304.3.2)

B. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

C. Door swings shall not swing into the clear floor space or clearance required for any fixture. Doors can swing into the required turning space.

TAS SECTION 603.3 - MIRRORS

A. Mirrors located above lavatories or countertops shall be installed so the bottom edge of the reflecting surface is 40" maximum above the finish floor or ground. Mirrors not installed above lavatories or countertops shall be 35" maximum above the finish floor or ground.

TAS SECTION 603.4 - COAT HOOKS AND SHELVES

A. Coat hooks shall be located within the reach ranges specified in 308. Shelves shall be located 40"-48" above the finish floor.

TAS SECTION 604 - WATER CLOSETS AND TOILET COMPARTMENTS

A. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16" minimum and 18" maximum from the side wall or partition, except in an ambulatory accessible toilet compartment where the centerline of the water closet may be 17" minimum and 19" maximum from the side wall or partition. Water closets shall be arranged for a left-hand or right-hand approach. (FIG. 604.3.1, 604.8.2)

TAS SECTION 604.3 - CLEARANCE

A. Clearances around water closets and in toilet compartments shall comply with Figure 604.3.1

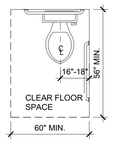


Figure 604.3.1 Clear Floor Space at Water Closets

TAS SECTION 604.3.2 - OVERLAP

A. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

TAS SECTION 604.4 - SEATS (REFERENCE FIGURE 604.4)

A. The seat height of a water closet above finish floor shall be 17"-19" maximum measured to the top of seat.
   1. Seats shall not be sprung to return to a lifted position

TAS SECTION 604.5 - GRAB BARS (REFERENCE FIGURES 604.4, 604.5.2)

A. Grab bars shall comply with 609 and be provided on the side wall closest to the water closet and on the rear wall.
   1. Grab bars shall not be required in a toilet room for a single use occupant accessed only through a private office and not for common or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5

B. For water closets not located in toilet stalls, the following grab bars shall be provided, 33"-36" above the finish floor"
   1. Side wall: 42" long minimum, located 12" maximum from back wall.
   2. Rear wall: 36" long minimum and extend from the centerline of the water closet 12" minimum on one side and 24" minimum on the other side.

C. Refer to 609 grab bars for size and structural elements.

TAS SECTION 604.6 - FLUSH CONTROLS (REFERENCE FIGURE 604.5.2)

A. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

TAS SECTION 604.7 - DISPENSERS (REFERENCE FIGURE 604.4)

A. Toilet paper dispensers shall comply with 309.4 and shall be 7" minimum and 9" maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15" minimum and 48" maximum above the finish floor and shall not be located behind grab bars. Dispensers that control delivery or do not permit continuous paper flow shall not be used.

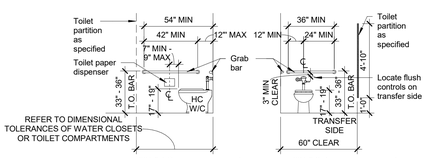


Figure 604.5.1 Side wall grab bar at water closets/toilet compartments

Figure 604.5.2 Rear wall grab bar at water closets/toilet compartments

TAS SECTION 604.8 - TOILET COMPARTMENTS

A. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3 Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

TAS SECTION 604.8.1 - WHEELCHAIR ACCESSIBLE COMPARTMENTS

A. Wheelchair accessible compartments shall comply with 604.8.1

B. Wheelchair accessible compartments shall be 60" wide minimum measured perpendicular to the side wall, and 56" deep minimum for wall hung water closets and 59" deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60" wide minimum measured perpendicular to the wall and 59" deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

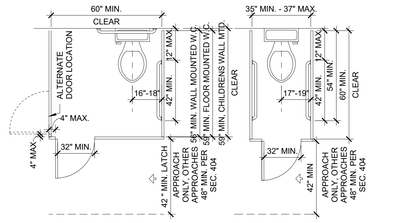


Figure 604.8.1.2 Wheelchair accessible toilet compartment doors

Figure 604.8.2 Ambulatory accessible toilet compartments

CLEARANCES INDICATED ARE MINIMUM REQUIREMENTS FOR ACCESSIBILITY. REFER TO TOILET ROOMS AND LAVATORY DETAILS FOR MOUNTING HEIGHTS.

TAS SECTION 604.8.1.2 - DOORS (REFERENCE FIGURES 604.8.1.2, 604.8.2)

A. Toilet compartments doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42" minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4" maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4" maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

B. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

TAS SECTION 604.8.1.4 - TOE CLEARANCE

A. The front partition and at least one side partition shall provide a toe clearance of 9" minimum above finish floor and 6" deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide 12" minimum toe clearance above finish floor.

TAS SECTION 604.8.2 - AMBULATORY ACCESSIBLE COMPARTMENTS

A. Ambulatory accessible compartments shall comply with figure 604.8.2

B. Ambulatory accessible compartments shall have a depth of 60" minimum and a width of 35"-37" maximum.

C. Grab bars in ambulatory accessible compartments shall comply with 609. A side-wall grab bar that is 42" long minimum, located 12" maximum from the rear wall and extending 54" minimum from the rear wall shall be located on both sides of compartment.

D. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40"-48" maximum above the finish floor.

TAS SECTION 605 - URINALS

A. Urinals shall be stall-type or wall-hung with the rim 17" maximum above the finish floor or ground. Urinals shall be 13 1/2" deep minimum measured from the outer face of the urinal rim to the back side of the fixture. (Fig. 605.2)

B. A clear floor space complying with 305 (30" min. wide by 48" min. deep) positioned for forward approach shall be provided.

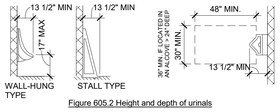


Figure 605.2 Height and depth of urinals

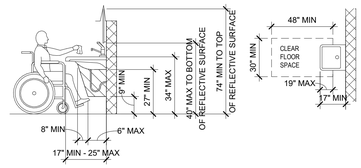
TAS SECTION 606 - LAVATORIES AND SINKS

A. A clear floor space complying with 305 (30" min. wide by 48" min. deep) positioned for a forward approach, and knee and toe clearances complying with 306 shall be provided.
   1. Soap and towel dispensers must also be located within the reach ranges specified in 308. Locate soap and towel dispensers so they are easy to use by a person at the accessible lavatory.

B. Lavatories and sinks shall be installed with the front of the higher rim or counter surface 34" maximum above the finish floor or ground.

C. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain for 10 seconds minimum.

D. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.



Lavatory Detail

TAS SECTION 607 - BATHTUBS

A. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12" minimum beyond the wall at the head end of the bathtub.

B. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

C. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with figures 607.4.1

TAS SECTION 608 - SHOWER COMPARTMENTS

A. Shower stalls shall be 36" x 36" clear inside dimension at transfer type shower compartments and have a 36" minimum wide by 48" minimum long clearance measured from the control wall. Roll-in type shower compartments shall be 30" minimum wide by 60" minimum long and shall have a 30" min wide x 60" min long entry on the face of the shower compartment. Alternate roll-in shower type compartments shall be 36" minimum wide and 60" minimum deep clear inside dimensions with a 36" wide minimum entry provided at one end of the long side of the compartment.

TAS SECTION 608.3.1 - TRANSFER TYPE SHOWER COMPARTMENT

A. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18" from the control wall.

B. A folding or non-folding seat shall be provided in transfer type shower compartments.

C. Controls, faucets, and shower spray units shall comply with 309.4

TAS SECTION 608.7 - THRESHOLDS

A. Thresholds in roll-in type shower compartments shall be 1/2" high maximum in accordance with 308. In transfer type shower compartments, thresholds 1/2" high shall be beveled, rounded, or vertical.

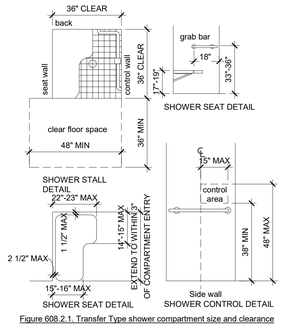


Figure 608.2.1. Transfer Type shower compartment size and clearance

TAS SECTION 609 - GRAB BARS

A. Grab bars with circular cross sections shall have an outside diameter of 1 1/4" minimum and 2" maximum. Grab bars with non-circular cross sections shall have a cross-section dimension of 2" maximum and a perimeter dimension of 4" minimum and 4.8" maximum.

B. The space between the wall and grab bar shall be 1 1/2". The space between the grab bar and projecting objects below shall be 1 1/2" minimum. The space between the grab bar and projecting objects above shall be 12" minimum.

C. Grab bars shall be installed in a horizontal position, 33" minimum and 36" maximum above the finish floor measured to the top of the gripping surface. Refer to chart for children accessible heights for exceptions.

D. Allowable stresses shall not be exceeded for materials used when a horizontal or vertical force of 250 pounds is applied at any point of the grab bar or any of its components.

TAS SECTION 610.2 - BATHTUB SEATS

A. Seat shall be able to stand vertical and horizontal forces of 250 pounds and shall have the following features:
   1. Shall be 17"-19" above finish floor
   2. Removable seats shall be 15"-16" deep and capable of secure placement.
   3. Permanent seats shall be 15" deep minimum and extend from the back wall to or beyond the outer edge of the bathtub.

TAS SECTION 610.3 - SHOWER SEATS

A. Seats shall be L-shaped with the rear edge 2 1/2" maximum from the wall and 15"-16" maximum from the seat wall. The rear edge of the "L" portion shall be 1 1/2" maximum from the wall and the front edge shall be 14"-15" from the wall. The end of the "L" shall be 22"-23" from the main seat wall. Seats shall have be able to stand vertical and horizontal forces of 250 lbs.
   1. Shall be 17"-19" above finish floor
   2. Where a seat is provided in a roll in type shower it must be the fold-up type.

TAS SECTION 611 - WASHING MACHINES AND CLOTHES DRYERS

A. Top loading machines shall have the door to the laundry compartment located 36" maximum above the finish floor. Front loading machines shall have the bottom of the opening to the laundry compartment located 15"-36" above the finish floor.

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

TAS SECTION 702 - FIRE ALARM SYSTEMS

A. Fire alarm systems shall have permanently installed audible and Visual alarms complying with NFPA 72 (1999 or 2002 addition) except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 addition) shall have a sound level no more than 110dB at the maximum hearing distance from the audible audiences.

TAS SECTION 703 - SIGNS

A. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

B. Characters shall be uppercase and raised 1/32" minimum above their background.

C. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative,or of any other unusual form. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55-110 percent of the height of the uppercase letter "I."

D. Character height measured vertically from the baseline of the character shall be 5/8"-2" maximum based on the letter "I."

E. Braille shall be contracted (Grade 2) and shall comply with table 703.3.1. Braille shall be located below the entire text.

F. Tactile characters on signs shall be located 48" minimum above the finish floor measured from the baseline of the lowest character and 60" maximum above finish floor measured from the baseline of the highest tactile character.

TAS SECTION 703.4.2 - LOCATION

A. Where a tactile sign is provided at a door, the sign shall be located alongside the latch side. Where a tactile sign is provided at double doors with two active leafs, the sign shall be placed on the inactive leaf. If the double door has two active leafs, the tactile sign shall be placed to the right of the right hand door. Where there is no wall space at the latch side of the door or the right side of the double doors, signs shall be located on the adjacent wall. Signs containing tactile letters shall be located so that a minimum clear space of 18"x18," centered on the tactile letters is provided, beyond the arc of any door swing between the closed position and 45 degrees open position.

TAS SECTION 703.5 - VISUAL CHARACTERS

A. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or vice versa.

B. Characters shall be uppercase or lowercase or a combination of both.

C. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative,or of any other unusual form. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55-110% of the height of the uppercase letter "I."

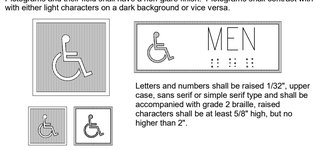
D. Character height shall comply with table 703.5.5 Visual Character Height

E. Visual characters shall be 40" maximum above the finish floor or ground.

TAS SECTION 703.6 - PICTOGRAMS

A. Pictograms shall have a field height of 6" minimum. Characters and braille shall not be located in the pictogram field.

B. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their background with either light characters on a dark background or vice versa.



Letters and numbers shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied with grade 2 braille, raised characters shall be at least 5/8" high, but no higher than 2".

Figure 703.7.2.1 International Symbol of Accessibility

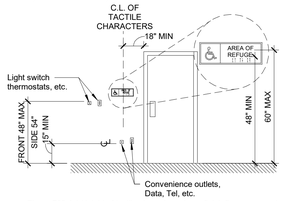


Figure 703.4.1 Height of tactile characters above finish floor or ground

TAS SECTION 704.2 - WHEELCHAIR ACCESSIBLE TELEPHONES

A. A clear floor or ground space complying with 305 shall be provided. The clear floor or ground space shall not be obstructed by bases, enclosures, or seats.

B. Parallel Approach - The distance from the edge of the telephone enclosure to the face of the telephone unit shall be 10" maximum. (Fig. 704.2.1.1)

C. Forward Approach - The distance from the front edge of a counter within the telephone enclosure to the face of the telephone unit shall be 20" maximum. (Fig. 704.2.1.2)

D. The cord from the telephone to the handset shall be 29" minimum long.

TAS SECTION 704.3 - VOLUME CONTROL TELEPHONES

A. Volume control must provide a gain adjustable to 20 dB minimum. For incremental volume control, provide at least intermediate step of 12 dB of gain minimum. An automatic reset shall be provided.

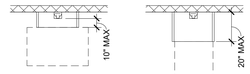


Figure 704.2.1.1 Parallel approach to telephone

Figure 704.2.1.2 Forward approach to telephone

TAS SECTION 705 - DETECTABLE WARNINGS

A. Truncated domes in a detectable warning surface shall have a base diameter of .9"-1.4" maximum, a top diameter of 50-65% of the base diameter, and a height of .2"

B. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on light

C. Platform boarding edges shall be 24" wide and shall extend the full length of the public use areas of the platform.

TAS SECTION 706 - ASSISTIVE LISTENING SYSTEMS

A. Receivers required for use with an assistive listening system shall include a 1/8" standard mono jack.

B. Receivers required to be hearing-aid compatible shall interface with telecoils in hearing aids through the provision of neckloops.

C. Assistive listening systems shall be capable of providing a sound pressure level of 110-118 dB with a dynamic range on the volume control of 50dB.

D. The signal-to-noise ratio for internally generated noise in assistive listening systems shall be 18 dB minimum. Peek clipping shall not exceed 18 dB of clipping relative to the peaks of speech.

CHAPTER 8: SPECIAL ROOMS, SPACES, AND ELEMENTS

TAS SECTION 802.1 - WHEELCHAIR SPACES

A. The floor or ground surface of wheelchair spaces shall comply with 302. Changes in level are not permitted.

B. A single wheelchair space shall be 36" wide minimum.

C. Where a wheelchair space can be entered from the front or rear, the wheelchair space shall be 48" deep minimum. Where a wheelchair space can be entered only from the side, the wheelchair space shall be 60" deep minimum.

D. Wheelchair spaces shall adjoin accessible routes. Accessible routes shall not overlap wheelchair spaces.

E. Lines of sight to the screen, performance area, or playing field for spectators shall comply with 802.2 (have line of sight over heads of spectators, dependent on spectators position)

TAS SECTION 802.3 - COMPANION SEATS

A. Companion seats should be positioned to have shoulder alignment with adjacent wheelchair spaces. The shoulder alignment point shall be measured 36" from the front of the wheelchair space. The floor surface should be the same for the wheelchair space and companion space.

B. Companion seats should be equal in size, quality, comfort, and the amenities of immediate seating.

TAS SECTION 802.4 - AISLE SEATS

A. Each designated aisle seat shall be identified by a sign or marker. Where armrests are provided on other seating in the immediate area, folding or retractable armrests must be provided on the aisle side of the seat.

TAS SECTION 803 - DRESSING, FITTING, AND LOCKER ROOMS

A. Turning space complying with 304 shall be provided within the room.

B. Doors shall not swing into the room unless a clear floor or ground space complying with 305.3 is provided beyond the arc of the swing.

C. A bench that is 42" long minimum x 20"-24" deep set at a height of 17"-19" shall be provided within the room.

D. Coat hooks shall be located within reach ranges specified in 308. Shelves shall be 40"-48" maximum above the finish floor or ground.

TAS SECTION 804 - KITCHENS AND KITCHENETTES

A. In a pass through kitchens where counters or appliances are on opposing sides, there must be a 40" minimum clearance between opposing sides and an entrance from each side.

B. In a U-shaped kitchen enclosed on 3 continuous sides, clearance between all opposing sides must be 60" minimum.

C. Kitchen work surface shall be 34" above finish floor or ground.

CHAPTER 9: BUILT-IN ELEMENTS

TAS SECTION 902 - DINING SURFACES AND WORK SURFACES

A. A clear floor space complying with 305 positioned for a forward approach shall be provided. Kneeand toe clearance must comply with 306.

B. Tops of dining surfaces and work surfaces shall be 28"-34" maximum above the finish floor or ground.

TAS SECTION 902.4 - DINING SURFACES AND WORK SURFACES FOR CHILDREN'S USE

A. A clear floor space complying with 305 positioned for a forward approach shall be provided. Knee and toe clearance must comply with 306, except the knee clearance shall be 24" minimum above the finish floor or ground.

B. Tops of dining surfaces and work surfaces shall be 26"-30" maximum above the finish floor or ground.

TAS SECTION 903 - BENCHES

A. Clear floor or ground space complying with 305 shall be provided and shall be positioned at the end of the bench seat and parallel to the short axis of the bench.

B. Benches shall have seats 42" minimum long and 20"-24" maximum deep.

C. Bench shall provide back support or be affixed to a wall.

D. Top of bench seat shall be 17"-19" maximum above the finish floor or ground.

E. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds is applied at any point on the seat or its components.

TAS SECTION 904 - SALES AND SERVICE COUNTERS

A. Parallel Approach - A portion of the counter surface that is 36" long minimum and 36" high maximum shall be provided. A clear floor space complying with 305 shall be positioned for a parallel or approach adjacent to the 36" high minimum length of the counter.

B. Forward Approach - A portion of the counter surface that is 30" long minimum and 36" high maximum shall be provided. Knee and toe spaces complying with 306 shall be provided under the counter. A clear floor space complying with 305 shall be positioned for a parallel or approach adjacent to the 36" high minimum length of the counter.

C. The accessible portion of the countertop shall extend the same depth as the sales/service counter.

AGE BASED DIMENSIONAL INFORMATION TABLE FOR CHILDREN

		ADULT (AGE 12 +)	AGE 9-12	AGE 5-8	AGE 3-4	TAS SECTION
	HANDRAILS	34" MIN - 38" MAX	SECONDARY HANDRAIL @ 28" MAX WITH MIN 9" CLEARANCE BETWEEN UPPER HANDRAIL RECOMMENDED			505.4
	REACH RANGE - FORWARD OR SIDE	15" MIN - 48" MAX	16" MIN - 44" MAX	18" MIN - 40" MAX	20" MIN - 36" MAX	308.2
WC/TOILET	WC CENTERLINE TO WALL	16" - 18"	15" - 18"	12" - 15"	12"	604.9
	WC CENTERLINE TO WALL (AMBULATORY)	17" - 19"	—	—	—	604.2
	WC TOP OF SEAT	17" - 19"	15" - 17"	12" - 15"	11" - 12"	604.9
	GRAB BARS (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"	604.9
	DISPENSER HEIGHT	15" - 48"	17" - 19"	14" - 17"	14"	604.9
LAV/MIRRORS	LAV. MIN. KNEE CLEAR.	27" FORWARD APPROACH ONLY	24" FORWARD APPROACH ONLY	24" FORWARD APPROACH ONLY	PARALLEL APPROACH ALLOWED	606.2.4
	LAV. MAX RIM/COUNTERTOP	34"	31"	31"	—	606.2.4
	LAV. MAX TO FAUCETS FROM FRONT	24"	—	—	—	308.1
	MIRRORS ABOVE LAV., MAX TO BOTTOM OF REFLECTIVE SURFACE	40"	—	—	—	603.3
	MIRRORS NOT ABOVE LAV., MAX TO BOTTOM OF REFLECTIVE SURFACE	35"	—	—	—	603.3
	MIN TOP OF MIRROR	74"	—	—	—	603.3
DRINKING FOUNTAINS	MAX TO LOW SPOUT	36"	30" (SPOUT MUST BE 3 1/2" FROM FRONT)	30" (SPOUT MUST BE 3 1/2" FROM FRONT)	30" (SPOUT MUST BE 3 1/2" FM. FRONT)	602.2
	MAX TO HIGH/STANDARD PERSON SPOUT	38" - 43"	—	—	—	602.7

**NOTE: " — " INDICATES NO EXCEPTIONS MADE FOR THAT ITEM PER TAS 2012 STANDARDS

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REGISTERED ARCHITECT BRYANT A. HARMON 13800 STATE OF TEXAS

6/6/2022

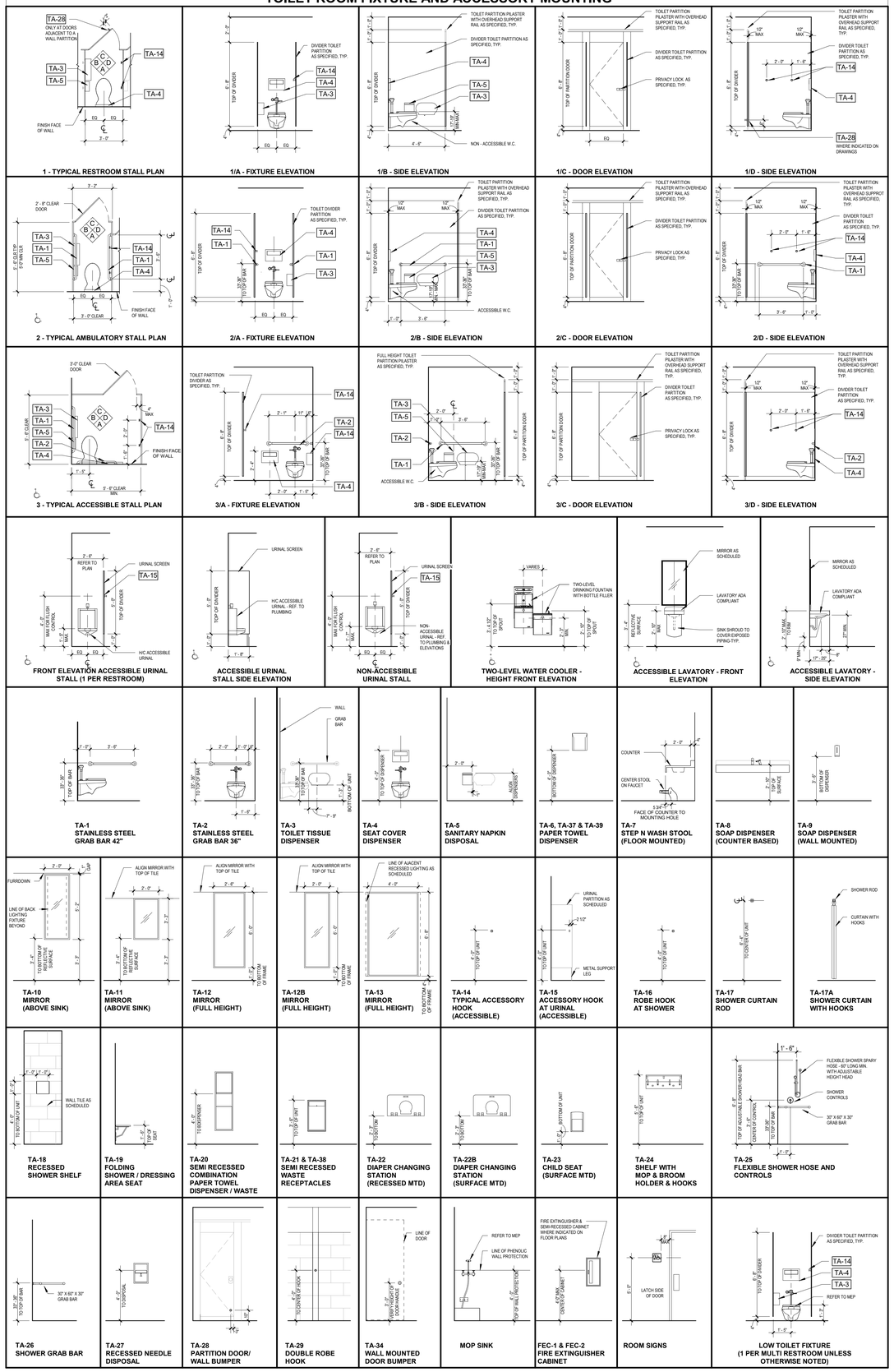
CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
TAS ACCESSIBILITY REQUIREMENTS

SHEET NO.
I102

TOILET ROOM FIXTURE AND ACCESSORY MOUNTING



TOILET ACCESSORY SCHEDULE

Type Mark	Description	Manufacturer	Model	Comments
TA-1	GRAB BAR - 42" / FINISH: STAINLESS STEEL, SATIN	BOBRICK	B-5806	CFCI
TA-2	GRAB BAR - 36" / FINISH: STAINLESS STEEL, SATIN	BOBRICK	B-5806	CFCI
TA-3	TOILET TISSUE DISPENSER / FINISH: STAINLESS STEEL, SATIN	BRADLEY CORPORATION	5425	CFCI
TA-4	SURFACE MOUNTED SEAT COVER DISPENSER / FINISH: STAINLESS STEEL, SATIN	BRADLEY CORPORATION	583	
TA-5	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL / FINISH: STAINLESS STEEL, SATIN	BRADLEY CORPORATION	4781-11	CFCI
TA-6	SEMI-RECESSED PAPER TOWEL DISPENSER, HOUSING WITHOUT TRIM PANEL / FINISH: STAINLESS STEEL, SATIN	SCOTT	31501	CFCI
TA-7	FLOOR MOUNTED SELF RETRACTING STEP / FINISH: STAINLESS STEEL	STEP 'N WASH	704-SN	CFCI / INSTALL CENTERED ON SINK
TA-8	COUNTER MOUNTED SENSOR ACTIVATED FOAM SOAP DISPENSER	BOBRICK	B-8263	CFCI
TA-9	AUTOMATIC WALL MOUNTED FOAM DISPENSER	BOBRICK	B-2013	CFCI
TA-10	24" X 62" WALL MOUNTED MIRROR WITH 1" METAL FRAME, PAINTED BLACK	GAMCO	A-SERIES	CFC
TA-11	24" X 39" WALL MOUNTED MIRROR WITH 1" METAL FRAME, PAINTED BLACK	GAMCO	A-SERIES	CFCI
TA-12	30" X 78" WALL MOUNTED MIRROR WITH 1" METAL FRAME, PAINTED BLACK	GAMCO	A-SERIES	CFCI
TA-12B	24" X 78" WALL MOUNTED MIRROR WITH 1" METAL FRAME, PAINTED BLACK	GAMCO	A-SERIES	CFCI
TA-13	48" X 82" WALL MOUNTED MIRROR WITH 1" METAL FRAME, PAINTED BLACK	GAMCO	A-SERIES	CFCI / SURFACE MOUNTED LIGHTING INSTALLED AT VERTICAL EDGES OF MIRROR
TA-14	HEAVY DUTY WALL MOUNTED SQUARE HOOK / FINISH: STAINLESS STEEL MATTE BLACK	ANGLE SIMPLE HARDWARE	#SUS304	CFCI
TA-15	URINAL PARTITION MOUNTED ACCESSORY HOOK / FINISH: STAINLESS STEEL MATTE BLACK	MOEN	#YB0403BL	CFCI
TA-16	HEAVY DUTY WALL MOUNTED ROBE HOOK / FINISH: STAINLESS STEEL	ANGLE SIMPLE HARDWARE	#SUS304	CFCI / PROVIDE IN WALL BLOCKING
TA-17	SHOWER ROD, CURTAIN & HOOKS / FINISH: STAINLESS STEEL	BOBRICK	ROD #B-207x36 / CURTAIN #B-204-2 / HOOKS #B-204-1	CFCI / CONTINUOUS FIRE-RESISTANT BLOCKING TO BE PROVIDED FOR ALL SHOWER BARS IN WALL
TA-18	RECESSED SHOWER SHELF / KERDI BOARD-SN	SCHLUTER	KB 12 SN 305 305 A	CFCI
TA-19	FOLDING SHOWER SEAT / FINISH: STAINLESS STEEL WITH PHENOLIC SEAT	BOBRICK	B-5181	CFCI
TA-20	SEMI RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE, 12 GALLON VINYL LINER	GAMCO	TW-1 KC / **SPECIAL	CFCI
TA-21	SEMI RECESSED WASTE RECEPTACLE, 12 GALLON VINYL LINER	BRADLEY CORPORATION	3A05-10 / P11-044	CFCI
TA-22	RECESSED MOUNTED BABY CHANGING STATION / FINISH: STAINLESS STEEL, SATIN	BOBRICK	KB110-SSWM	CFCI
TA-22B	SURFACE MOUNTED BABY CHANGING STATION / FINISH: STAINLESS STEEL, SATIN	BOBRICK	KB110-SSRE	CFCI
TA-23	SURFACE MOUNTED CHILD PROTECTION SEAT / FINISH: WHITE	GRAINGER / FOUNDATIONS	35MG25	CFCI
TA-24	SHELF WITH MOP & BROOM HOLDERS & RAG HOOKS	BOBRICK	B-239 X 34	CFCI
TA-25	SHOWER CONTROLS WITH FLEXIBLE HOSE	REF TO PLUMBING	-	CFCI / REFER TO MEP
TA-26	TWO-WALL SHOWER GRAB BAR - 24" x 36" / FINISH: STAINLESS STEEL, SATIN	BOBRICK	B-58616	CFCI / CONTINUOUS FIRE-RESISTANT BLOCKING TO BE PROVIDED FOR GRAB BARS IN WALL / PRODUCT IS EXISTING, TO BE REMOVED AND REINSTALLED
TA-27	RECESSED SHARPS DISPOSAL / FINISH: STAINLESS STEEL, SATIN	BOBRICK	B-35016	CFCI
TA-28	DOOR BUMPER / FINISH: STAINLESS STEEL, BLACK	JQK	DSB5-PB-P4	CFCI / INSTALLED ONLY ON TOILET PARTITION DOORS ADJACENT TO WALL PARTITION
TA-29	DOUBLE ROBE HOOK / FINISH: STAINLESS STEEL	ANGLE SIMPLE HARDWARE	#SUS304	CFCI / PROVIDE IN WALL BLOCKING
TA-30	18" X 36" MIRROR WITH FRAME - EXISTING	-	-	EXISTING, CI / SALVAGED DURING DEMO / REINSTALL AS INDICATED
TA-31	GRAB BAR - EXISTING 42"	-	-	EXISTING, CI / SALVAGED DURING DEMO / REINSTALL AS INDICATED / REFER TO TA-1 DETAIL FOR INSTALLATION HEIGHT
TA-32	GRAB BAR - EXISTING 36"	-	-	EXISTING, CI / SALVAGED DURING DEMO / REINSTALL AS INDICATED / REFER TO TA-2 DETAIL FOR INSTALLATION HEIGHT
TA-33	TOILET TISSUE DISPENSER - EXISTING	-	-	EXISTING, CI / SALVAGED DURING DEMO / REINSTALL AS INDICATED ON ELEVATIONS
TA-34	WALL MOUNTED DOOR HANDLE BUMPER / FINISH: BLACK	IVES	WS406/407CCV	CFCI / VERIFY HEIGHT AND LOCATION OF DOOR HANDLE FOR BUMPER INSTALLATION
TA-35	WALL MOUNTED DOOR HANDLE BUMPER / FINISH: MATTE BLACK	IVES	WS447/622	CFCI
TA-36	SURFACE MOUNTED SHARP DISPOSAL	BOBRICK	B-350169	CFCI
TA-37	SEMI-RECESSED PAPER TOWEL DISPENSER, HOUSING WITH TRIM PANEL / FINISH: STAINLESS STEEL, SATIN	SCOTT	43823	CFCI / VERIFY MODEL WITH OWNER

GENERAL NOTE: ALL TOILET ACCESSORIES TO BE PROVIDED BY CONTRACTOR UNLESS OTHEWISE NOTED. ALL TOILET ACCESSORIES FINISHES TO BE SATIN STAINLESS STEEL UNLESS OTHERWISE NOTED.

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CITY OF AUSTIN
PALMER EVENTS CENTER
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900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
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Revisions	

SHEET TITLE
TOILET ACCESSORY SCHEDULE

SHEET NO.
I103

ROOM OCCUPANCY				
			CODE TABLE - VERIFY & UPDATE BEFORE CALCULATING	OCCUPANCY
Number	Name	Area	Occupant Load Factor	Occupancy Load Calculation
1.01	BOX OFFICE	205 SF	100	3
1.02	LOBBY	3662 SF	15	245
1.04	COMM. CLOS.	241 SF	300	1
1.07	ELECTRICAL	333 SF	300	2
1.10	LOBBY	1463 SF	15	98
1.14	ELECTRICAL CLOSET	263 SF	300	1
1.16	HSKP	62 SF	100	1
1.20	LOBBY	2604 SF	15	174
1.30	GREEN ROOM	224 SF	100	3
1.31	GREEN ROOM	228 SF	100	3
1.35	ELEV. MACH.	109 SF	300	1
1.37	CONCESSIONS	314 SF	100	4
1.38	STORAGE	360 SF	300	2
1.39	CONCESSION	243 SF	100	3
1.39	WARMING KITCHEN	595 SF	100	6
1.40	MAIN COMM.	466 SF	300	2
1.41	ELECTRICAL SERVICE VAULT	1110 SF	300	4
1.44	FIRST AID	107 SF	100	2
1.46	ELECTRICAL CLOS.	344 SF	300	2
1.47	ELEC CHASE	94 SF	300	1
1.48	CONTROL ROOM	487 SF	300	2
1.49	HSKP	123 SF	100	2
1.50	STORAGE	2722 SF	300	10
1.51	LAVATORY	134 SF	100	2
1.52	WORK ORDER	136 SF	100	2
1.57	ELECTRICAL ROOM	127 SF	300	1
1.59	HSKP	60 SF	100	1
1.61	EXHIBIT HALL #1	44547 SF	15	2970
1.62	EXHIBIT HALL #2	25767 SF	15	1718
1.63	ELEV MECH RM	134 SF	300	1
1.65	HSKP	34 SF	100	1

ROOM OCCUPANCY				
			CODE TABLE - VERIFY & UPDATE BEFORE CALCULATING	OCCUPANCY
Number	Name	Area	Occupant Load Factor	Occupancy Load Calculation
2.02	MNGR. OFFICE	365 SF	100	4
2.04	CONF. RM.	319 SF	50	7
2.05	OFFICE	160 SF	100	2
2.06	OFFICE	158 SF	100	2
2.07	OFFICE	160 SF	100	2
2.08	OFFICE	161 SF	100	2
2.09	BREAK RM.	120 SF	15	9
2.10	OFFICE	156 SF	100	2
2.11	COMM. RM.	172 SF	300	1
2.12	LOBBY	1589 SF	7	227
2.15	MAIN MECHANICAL	3873 SF	300	13
2.16	BOILER RM.	1152 SF	300	4
2.17	GENERATOR RM.	422 SF	300	2
2.18	MAIN ELEC. RM.	2154 SF	300	8
2.19	COMM. RM.	158 SF	300	1
2.20	SOUND CONTROL	293 SF	300	1
2.21	STORAGE	178 SF	300	1
2.26	ELEV LOBBY	183 SF	15	13
2.26	MEETING	1184 SF	50	24
2.27	ELEV. MECH	57 SF	300	1
2.27	MEETING	1171 SF	15	79
2.28	MEETING	1209 SF	15	81
2.29	MEETING	1210 SF	15	81
2.30	MEETING	1256 SF	15	84
2.38	HSKP	29 SF	100	1
2.39	OFFICE	156 SF	100	2
2.41	HSKP	49 SF	100	1
2.42	PHONE ALCOVE	118 SF	100	2
2.43	STORAGE	558 SF	300	2
2.44	MECH. ROOM	263 SF	300	1
2.45	CLOS.	40 SF	300	1
2.46	CLOS.	66 SF	300	1
Grand total: 63				5930

PROJECT CODE ANALYSIS

PROJECT NAME:		**OCCUPANCY & AREA**	DETERMINATION	REFER. SECTION	**LIFE SAFETY REQUIREMENTS**	DETERMINATION	REFER. SECTION
PALMER EVENTS CENTER		OCCUPANCY TYPE:	ASSEMBLY	SECTION 304.1	CORRIDOR WIDTH:	EXISTING TO REMAIN	
PLUMBING AND RESTROOM UPGRADE		OCCUPANT LOAD:	11,572	Table 1004.1.1	CORRIDOR HEIGHT:	EXISTING TO REMAIN	
PROJECT ADDRESS:		CONSTRUCTION REQUIREMENTS:	N/A		DOORS:	EXISTING TO REMAIN	
900 BARTON SPRINGS RD		ALLOWABLE FLOOR AREA:	EXISTING TO REMAIN		EXIT DISTANCE:	EXISTING TO REMAIN	
AUSTIN, TX 78704		ALLOWABLE AREA MODIFICATIONS:	N/A		FIRE SPRINKLER SYSTEM:	EXISTING TO REMAIN	
PROJECT SQUARE FOOTAGE:		**FIRE RESISTANCE REQUIREMENTS:**					
EXISTING BUILDING:	FIRST FLOOR: 107,368 SF	STRUCTURAL FRAME:	EXISTING TO REMAIN				
	SECOND FLOOR: 31,054 SF	EXTERIOR BEARING:	EXISTING TO REMAIN				
TOTAL EXISTING BUILDING:	138,422 SF	EXTERIOR NON-BEARING:	EXISTING TO REMAIN				
RENOVATION:	FIRST FLOOR: 6,613 SF	INTERIOR BEARING:	EXISTING TO REMAIN				
	SECOND FLOOR: 1,123 SF	INTERIOR NON-BEARING:	EXISTING TO REMAIN				
	GARAGE: 57 SF	FLOOR & ROOF CONSTRUCTION	EXISTING TO REMAIN				
TOTAL RENOVATION:	7,794 SF	FIRE BARRIERS	EXISTING TO REMAIN				
		SHAFT ENCLOSURES	EXISTING TO REMAIN				
		OPENINGS	EXISTING TO REMAIN				
APPLICABLE CODES & REGULATIONS:							
2021 INTERNATIONAL BUILDING CODE		(AFFECTED AREAS ONLY)					
2021 INTNL. ENERGY CONSERVATION CODE (IECC)		(AFFECTED AREAS ONLY)					
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)		(AFFECTED AREAS ONLY)					
2021 INTERNATIONAL FIRE CODE		(AFFECTED AREAS ONLY)					
2020 NATIONAL ELECTRICAL CODE (NEC)		(AFFECTED AREAS ONLY)					
2021 UNIFORM MECHANICAL CODE (UMC)		(AFFECTED AREAS ONLY)					
2021 UNIFORM PLUMBING CODE (UPC)		(AFFECTED AREAS ONLY)					
PLAN REVIEW DATE: 1/24/2022							

NOTE: EXISTING BUILDING BUILT UNDER UBC 1994 (AMENDMENTS APPROVED AND PASSED BY THE AUSTIN CITY COUNCIL ON APRIL 6, 2000 ARE NOT APPLICABLE TO THE EXISTING PROJECT, AS DESIGN WAS COMMENCED AND DOCUMENTED PRIOR TO SAID ADOPTION OF ORDINANCE 000406-7)

AREA SCHEDULE (GROSS BUILDING)		
Area Type	Area	Perimeter

EXISTING TO REMAIN AS IS

EGRESS DATA		
Type	EXIT ROUTE	DISTANCE

EXISTING TO REMAIN AS IS

PLUMBING FIXTURE COUNTS									
A-3 ASSEMBLY	LEVEL 1	WATER CLOSETS		URNINALS	LAVATORIES		BATHTUB/SHOWER	DRINKING FOUNTAINS	OTHER
		MEN	WOMEN	17	MEN	WOMEN	-	12	1 SERVICE SINK
		13	45		17	19			
	LEVEL 2	WATER CLOSETS		URNINALS	LAVATORIES		BATHTUB/SHOWER	DRINKING FOUNTAINS	OTHER
		MEN	WOMEN	4	MEN	WOMEN	-	4	1 SERVICE SINK
		5	13		4	4			

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REGISTERED ARCHITECT BRYANT A. HARMENCIZ 13800 STATE OF TEXAS

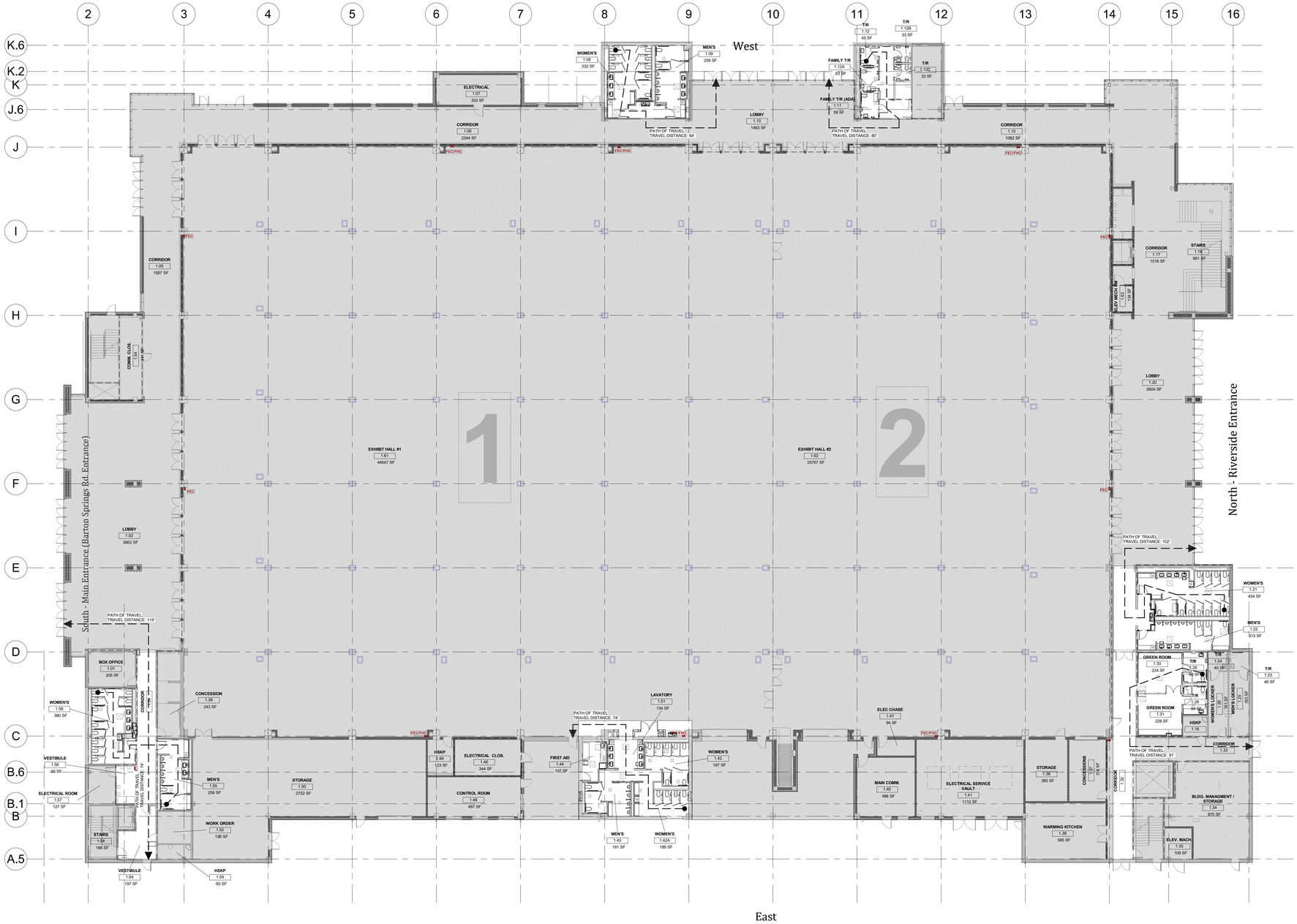
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn NH
Checked
Date 06.06.2022
Project No. 20027
Revisions

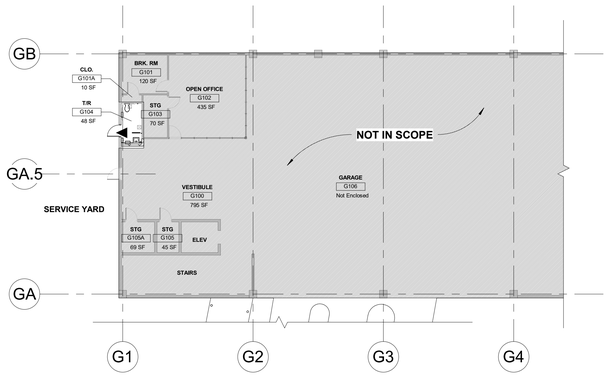
SHEET TITLE
FIRE PROTECTION ANALYSIS

SHEET NO.
R101



D1 R102 LEVEL 1 - OVERALL LIFE SAFETY PLAN

1/16" = 1'-0"



E1 R102 LEVEL 1 - GARAGE OVERALL LIFE SAFETY PLAN

1/16" = 1'-0"

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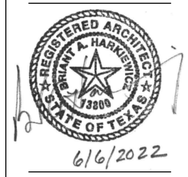

6/6/2022

CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn NH
Checked
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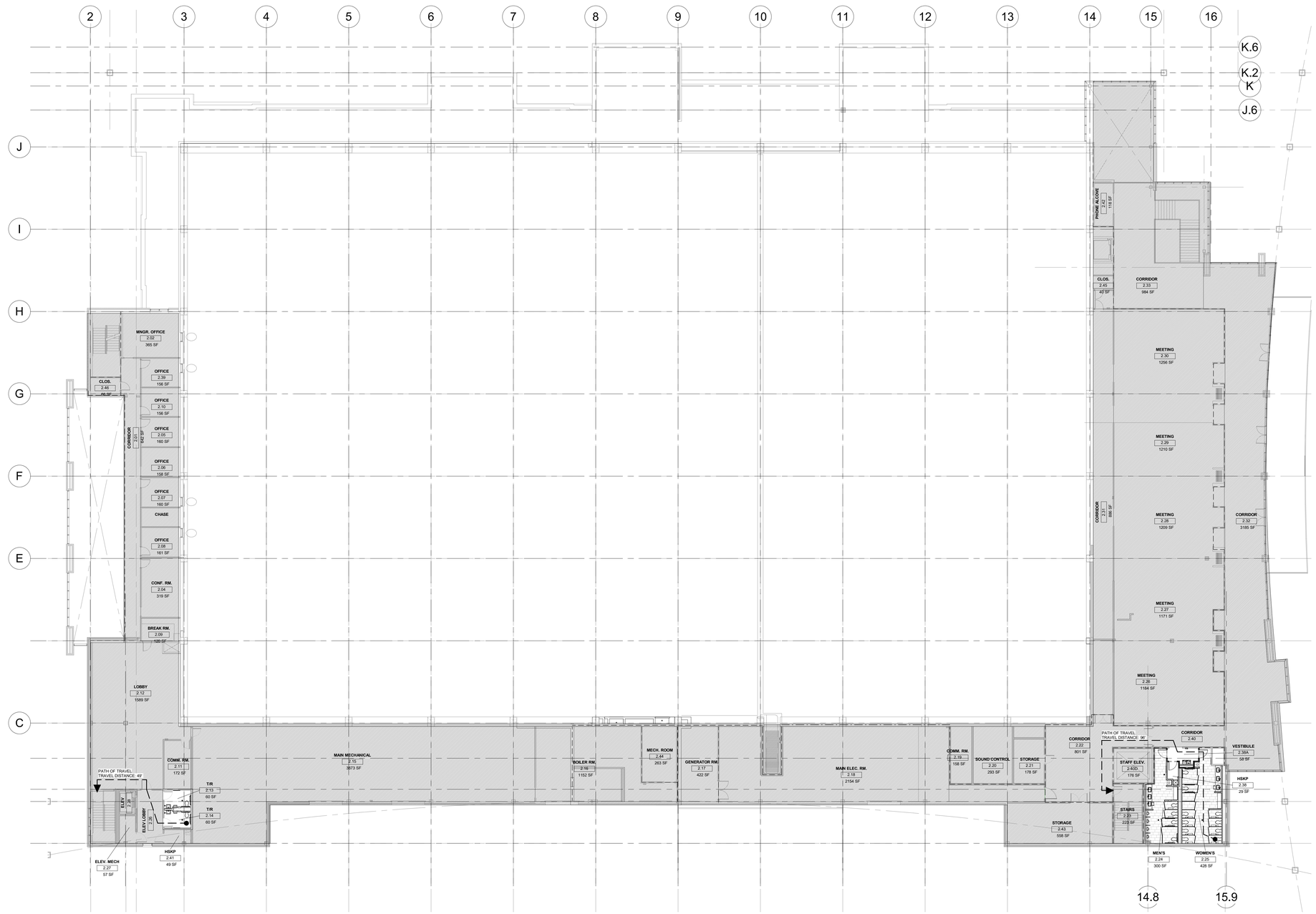
Revisions

SHEET TITLE
LEVEL 1 - OVERALL LIFE SAFETY PLAN

SHEET NO.
R102



1 R103 LEVEL 2 - OVERALL FLOOR PLAN

1/16" = 1'-0"

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REGISTERED ARCHITECT BRIANT A. HARMONICK 13800 STATE OF TEXAS

6/6/2022

CITY OF AUSTIN
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900 BARTON SPRINGS RD, AUSTIN, TX 78704

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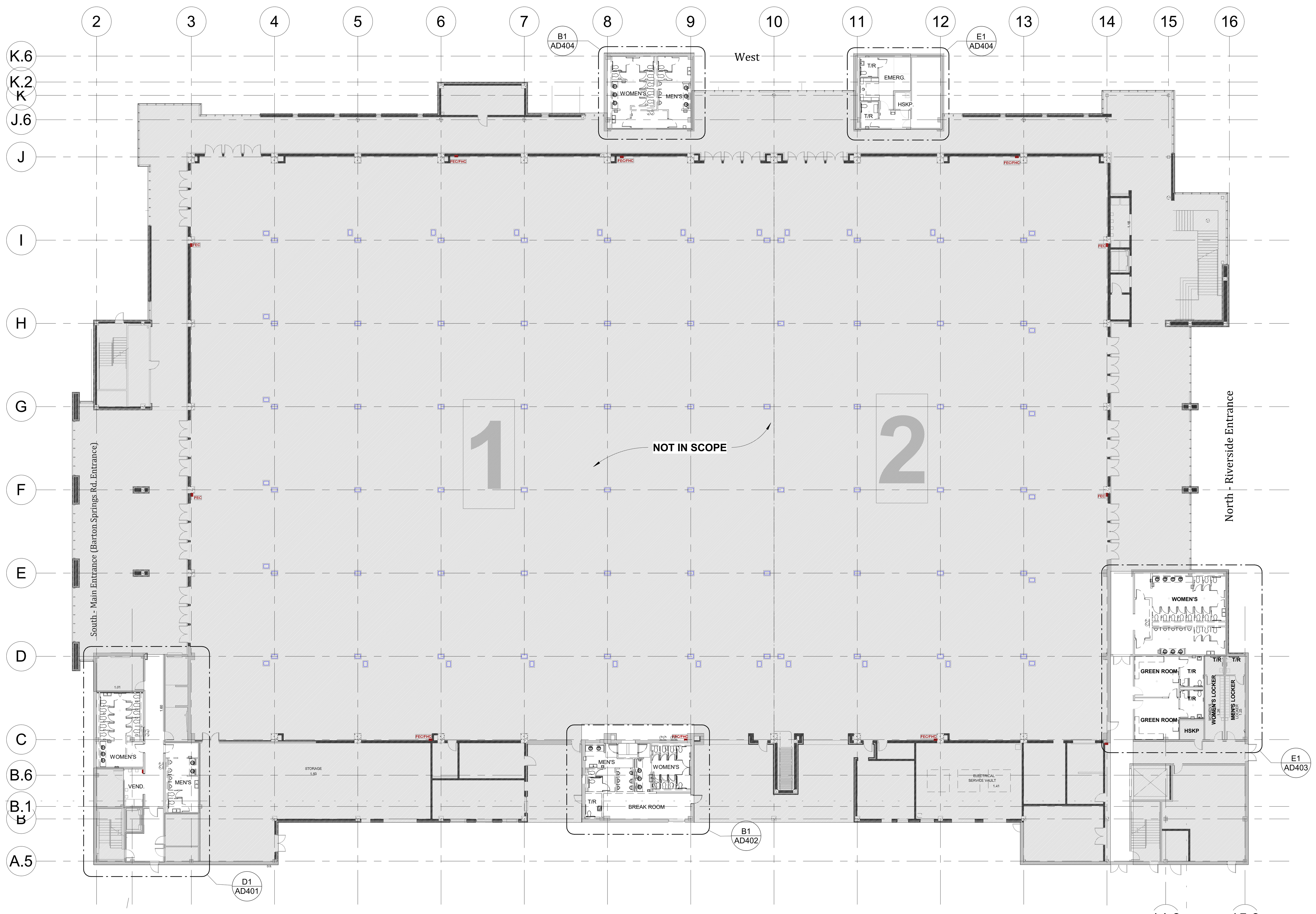
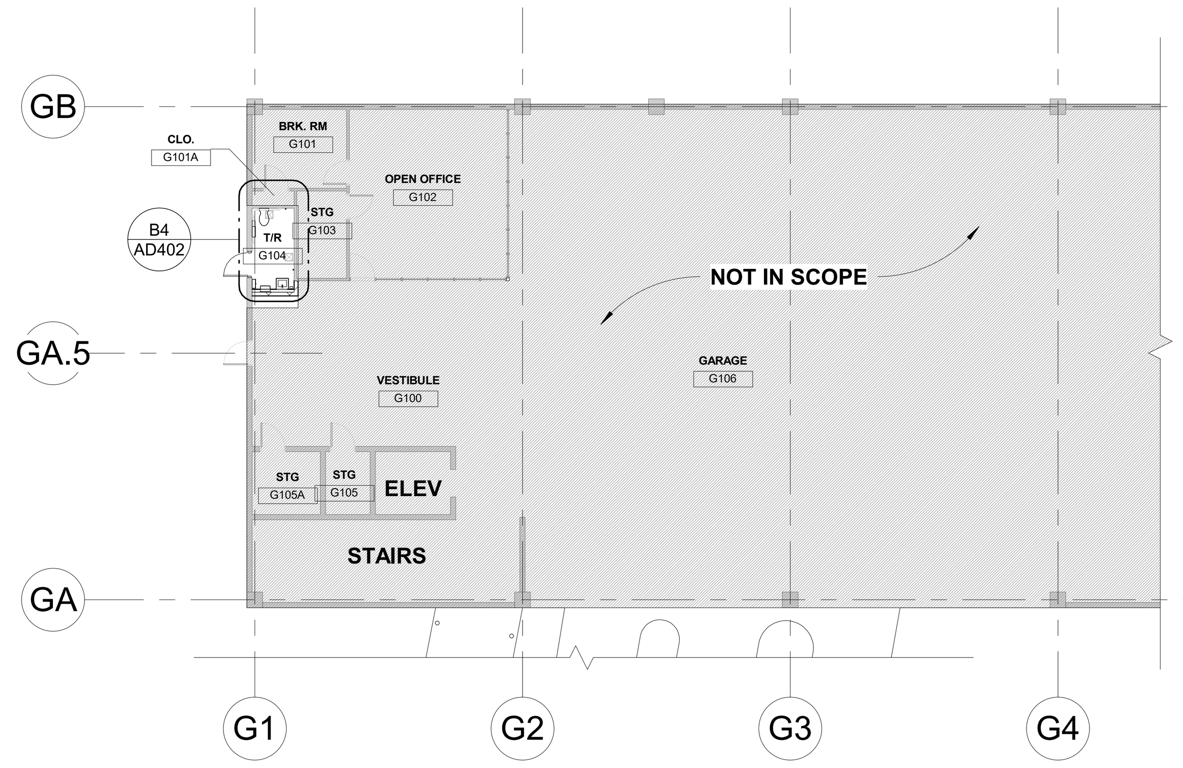
SHEET TITLE
LEVEL 2 - OVERALL LIFE SAFETY PLAN

SHEET NO.
R103



D1 LEVEL 1 - OVERALL DEMOLITION PLAN
AD101
3/64" = 1'-0"

NORTH PLAN N.



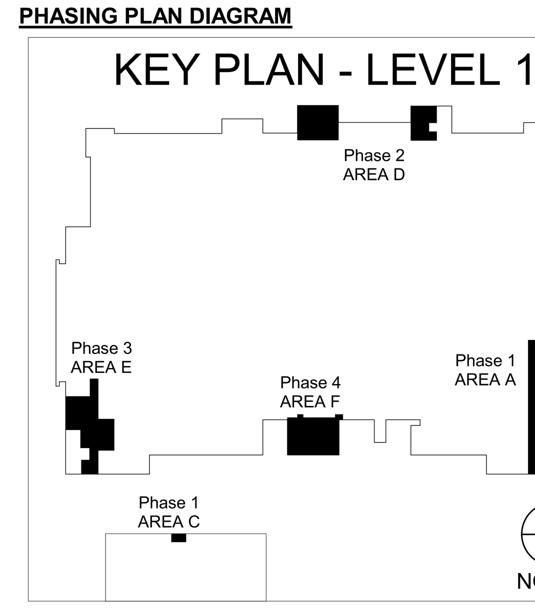
E1 LEVEL 1 - GARAGE OVERALL DEMO PLAN
AD101
1/16" = 1'-0"

NORTH PLAN N.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM



DEMOLITION GENERAL NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE FOR ALL MEANS & METHODS RELATED TO THE DEMOLITION.
2. IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE EXTENT OR SCOPE OF THE DEMOLITION; THE CONTRACTOR SHALL PROVIDE THOSE QUESTIONS TO THE OWNER AND ARCHITECT, IN WRITING, PRIOR TO COMMENCING WORK ON THE PROJECT.
3. ALL FEES AND PERMITS, REQUIRED FOR DEMOLITION, ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THIS BUILDING IS CURRENTLY CERTIFIED AS LEED SILVER. ALL NEW WORK MUST COMPLY WITH THE LEED GUIDELINES TO MAINTAIN THE LEED STATUS OF THIS BUILDING. THIS INCLUDES ALL CONSTRUCTION PROCEDURES AND IMPLEMENTATION.
5. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ANY WORK REQUIRED TO COMPLETE THE NEW CONSTRUCTION DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
6. ALL DEMOLITION WORK MUST COMPLY WITH THE APPLICABLE CODES, ANY SPECIFIC LOCAL MANDATES, LOCAL ZONING REQUIREMENTS, AND ANY SPECIFIC REQUIREMENTS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA (SITE), AND ANY ASSOCIATED OR ADJACENT AREAS, AT ALL TIMES DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A PLAN & SCHEDULE, UTILIZING PHASES AGREED TO WITH THE OWNER, FOR EXECUTING THE DEMOLITION WORK, ALONG WITH A PLAN FOR DUST AND ODOR CONTROL DURING THE DEMOLITION PROCESS. ALL WORK SHALL BE COORDINATED WITH THE OWNER AND REFLECT THEIR STIPULATED POLICIES AND PROCEDURES.
9. THE CONTRACTOR SHALL ERECT TEMPORARY PARTITIONS & INSTALL PROTECTION MEASURES, PROVIDING THE APPROPRIATE SEPARATION BETWEEN AREAS REMAINING OPEN & IN USE AND THOSE AREAS UNDER CONSTRUCTION, AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND THE OWNER. THESE SEPARATIONS INCLUDE BUT ARE NOT LIMITED TO: SEPARATIONS REQUIRED FOR FIRE AND SMOKE CONTROL, SEPARATIONS REQUIRED FOR SECURITY PURPOSES, SEPARATIONS REQUIRED TO MAINTAIN EGRESS PATHWAYS, SEPARATIONS FOR TEMPORARY EGRESS, SEPARATIONS FOR DUST & ODOR CONTROL, AND SEPARATIONS REQUIRED FOR CONSTRUCTION STAGING, MATERIALS DELIVERY & CONSTRUCTION AREA ACCESS.
10. THE CONTRACTOR SHALL PROTECT AND MAINTAIN, DURING DEMOLITION AND CONSTRUCTION, ALL EXISTING MATERIALS, FINISHES AND OR SURFACES TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED TO: FLOOR MATERIALS & SURFACES, WALL MATERIALS & SURFACES, CEILING MATERIALS & SURFACES, DOORS & DOOR SURFACES, AND DOOR FRAMES & FRAME SURFACES. THE CONTRACTOR SHALL COORDINATE, WITH THE OWNER AND ARCHITECT, ALL ITEMS TO BE LEFT IN PLACE THAT REQUIRE PROTECTION AND OR SPECIAL ATTENTION DURING DEMOLITION AND CONSTRUCTION.
11. THE CONTRACTOR SHALL PROVIDE SECURITY DEVICES, AS REQUIRED, TO MAINTAIN A SAFE AND SECURE ENVIRONMENT. DEVICES UTILIZED FOR SECURITY PURPOSES, MUST BE REVIEWED WITH, AND APPROVED BY, THE OWNER PRIOR TO INSTALLATION OR USE.
12. THE CONTRACTOR SHALL NOT RESTRICT ACCESSIBILITY (TO INDIVIDUALS WITH DISABILITIES) TO ANY AREA INSIDE OR OUTSIDE OF THE BUILDING, OPEN TO THE GENERAL PUBLIC AND THE FACILITY'S STAFF, DURING DEMOLITION. ALL TEMPORARY CONSTRUCTION MUST PROVIDE UNRESTRICTED AND SAFE ACCESS TO ALL INDIVIDUALS WITH DISABILITIES. ALL EXISTING ACCESSIBILITY MEASURES (IN TOILET ROOMS, AT DRINKING FOUNTAINS, ETC.) MUST BE MAINTAINED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
13. THE INFORMATION SHOWN IN THESE DOCUMENTS (INCLUDING: DESCRIPTIONS ABOUT EXISTING CONDITIONS, DEMOLITION DRAWINGS, CONSTRUCTION DRAWINGS, THE SPECIFICATIONS, ETC.) HAS BEEN GENERATED USING INFORMATION PROVIDED TO THE ARCHITECT BY THE OWNER. IT SHOULD BE UNDERSTOOD THAT THE ARCHITECT (AND ITS CONSULTANTS) MAKES NO GUARANTEE AS TO THE ACCURACY OR CONSISTENCY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE EXISTING CONDITIONS AND COORDINATING THE SCOPE OF THE DEMOLITION WITH THE SCOPE AND DESIGN INTENT OF THE NEW CONSTRUCTION.
14. THE EXISTING BUILDING IS LEED "SILVER" CERTIFIED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE ITSELF FULLY WITH LEED RELATED DEMOLITION REQUIREMENTS (AIR QUALITY, SUSTAINABILITY, RECYCLING, ETC.) AND THE EXTENT OF THOSE REQUIREMENTS RELATED TO THE DEMOLITION WORK AND THE NEW CONSTRUCTION.
15. THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE SCOPE OF MECHANICAL, ELECTRICAL & PLUMBING (MEP) RELATED DEMOLITION WORK, AND COORDINATE IT WITH THE NEW CONSTRUCTION DESCRIBED IN THESE DOCUMENTS.
16. ALL COSTS RELATED TO EXCESSIVE, OR UNCOORDINATED, DEMOLITION WILL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
17. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER AND THE ARCHITECT, THE REQUIRED FIRE SEPARATIONS THAT NEED TO BE MAINTAINED DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE REQUIRED SEPARATIONS (AS STIPULATED BY CODE OR THE AUTHORITIES HAVING JURISDICTION) BE COMPROMISED OR DIMINISHED IN ANY WAY DURING CONSTRUCTION.
18. ALL REPAIRS TO DAMAGED OR MODIFIED FIREPROOFING COMPONENTS & MEASURES (SPRAY-ON FIRE PROOFING, FIRE SAFING, SEALANTS, TAPES, SPRINKLERS, ETC.), RESULTING FROM OR REQUIRED BY THE NEW CONSTRUCTION, MUST MEET OR EXCEED ALL CURRENT CODE REQUIREMENTS AND ANY DIRECTIVES FROM THE AUTHORITIES HAVING JURISDICTION. ALL EXISTING FIREPROOFING COMPONENTS MUST BE REPAIRED, OR MODIFIED, ACCORDING TO THE ORIGINAL MANUFACTURER'S REQUIREMENTS AND UL DESIGN ASSEMBLY PARAMETERS (WHERE APPLICABLE). ALL NEW COMPONENTS MUST BE COMPATIBLE WITH THE EXISTING CONSTRUCTION (CHEMICALLY, VISUALLY, ETC.). UNDER NO CIRCUMSTANCES SHALL ANY COMPONENT'S OR ASSEMBLY'S FIRE RESISTANCE, OR EXPECTED PERFORMANCE, BE REDUCED. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT IMMEDIATELY IF THERE IS ANY KNOWLEDGE OF, OR POTENTIAL FOR, A CONFLICT BETWEEN THE EXISTING CONSTRUCTION'S FIRE PROOFING (COMPONENTS & MEASURES) AND THE NEW CONSTRUCTION.
19. HAZARDOUS MATERIALS ABATEMENT IS NOT ANTICIPATED FOR THIS PROJECT. SHOULD ANY SUSPECT MATERIALS BE DISCOVERED DURING THE DEMOLITION PROCESS, THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY AND STOP ALL WORK IN THE AREA(S) THAT THE MATERIAL(S) HAVE BEED DISCOVERED. THE OWNER WILL DETERMINE THE COURSE OF ACTION GOING FORWARD ON THIS ISSUE. ANY ENTITIES (CONTRACTOR, SPECIALISTS, ETC.) PERFORMING HAZARDOUS MATERIALS ABATEMENT WORK, FOR THIS PROJECT, SHALL BE PROPERLY LICENSED AND EQUIPPED TO PERFORM THE WORK REQUIRED. PROOF OF ABILITY, CERTIFICATION, AND INSURANCE COVERAGE, FOR THE PERFORMANCE OF THESE SERVICES, SHALL BE PROVIDED TO THE OWNER PRIOR TO START OF ANY REMEDIATION WORK. ANY ENTITIES RESPONSIBLE FOR REMOVING AND DISPOSING OF ABATED MATERIALS, SHALL DISPOSE OF THESE MATERIALS IN A LEGAL AND DOCUMENTED MANNER. PROOF OF LEGAL ABATEMENT SHALL BE PROVIDED TO THE OWNER WHEN THE ABATEMENT PROCESS HAS BEEN COMPLETED AND PRIOR TO ANY PAYMENT FOR THE ABATEMENT WORK.
20. THE CONTRACTOR SHALL CONFIRM WITH THE OWNER, IN WRITING, ALL DATA & TELEPHONE CABLING, CONDUIT, SWITCHES, AND EQUIPMENT THAT ARE TO BE LEFT IN PLACE PRIOR TO STARTING DEMOLITION WORK. THIS INCLUDES ALL TELEPHONE AND DATA/IT WIRING ABOVE THE EXISTING CEILINGS. THE CONTRACTOR SHALL ALSO CONFIRM, WITH THE OWNER, ITEMS THAT ARE TO BE REMOVED & SAVED, AND ITEMS THAT ARE TO BE REMOVED AND DISPOSED OF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ACCIDENTAL DISRUPTION OF DATA AND TELEPHONE SERVICES WITHIN THE BUILDING.
21. ABANDONED OPENINGS IN FLOOR SLABS (HOLES LEFT BY CONDUIT AND FLOOR OUTLETS BEING REMOVED) SHALL BE FILLED FLUSH, WITH THE SURROUNDING CONCRETE SURFACE, USING A MINIMUM OF 3000 PSI CONCRETE. ALL HOLE INFILLS MUST PROVIDE THE SAME FIRE AND SMOKE SEPARATION AS THAT PROVIDED BY THE SURROUNDING FLOOR SLAB. PRIOR TO FILLING AN OPENING, APPLY AN APPROPRIATE BONDING AGENT, TO THE INSIDE SURFACE OF THE ABANDONED OPENING. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER AND ARCHITECT, THE CONCRETE MIX BEING USED BEFORE INSTALLING THE CONCRETE. FOR OPENINGS LARGER THAN 6" IN DIAMETER, OR SQUARE, CONSULT THE ARCHITECT PRIOR TO MOVING FORWARD. ALL INFILL CONSTRUCTION MUST PROVIDE THE SAME, OR BETTER, LOAD CAPACITIES, AND FIRE RESISTANCE, AS THAT OF THE SURROUNDING CONSTRUCTION.
22. NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, AND/OR FLOOR SLABS, SHALL BE SEALED IMMEDIATELY, HAVE A FINISH SURFACE FLUSH WITH THE ADJACENT CONSTRUCTION, AND MEET ALL RATING AND SEPARATION REQUIREMENTS MANDATED BY BUILDING CODES AND ANY AUTHORITY HAVING JURISDICTION.
23. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, OR UNDUE WEAR, ALL EXISTING LIFE SAFETY RELATED ITEMS DURING THE DEMOLITION AND CONSTRUCTION. THESE INCLUDE: EXISTING SMOKE DETECTORS, EXISTING PUBLIC ADDRESS SPEAKERS, EXISTING FIRE ALARM BOXES, EXISTING STROBES, AND ALL OF THE ASSOCIATED WIRING.
24. COSTS FOR REINSTALLATION, RELOCATION, AND REFURBISHMENT, OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM RELATED EQUIPMENT, NECESSITATED BY THE NEW CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE, WITH THE OWNER, ANY REQUIRED MODIFICATIONS, ADDITIONS OR ADJUSTMENTS TO THE EXISTING FIRE ALARM SYSTEM.
25. EXISTING SPRINKLER HEADS AND ASSOCIATED PIPE & CONTROLS, WITHIN THE SPACE, SHALL BE PROTECTED FROM ANY POTENTIAL DAMAGE. ALL OF THE HEADS SHALL REMAIN ACTIVE AT ALL TIMES AND PROVIDE THE REQUIRED FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM WITH THE AUTHORITIES HAVING JURISDICTION (FIRE MARSHAL, CITY, ETC.) ANY REQUIREMENTS THAT APPLY TO THIS PROJECT.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND RELOCATING THE SPRINKLER HEADS, AS REQUIRED, TO INSURE THE PROPER SPACING OF HEADS AND SPRINKLER SYSTEM COVERAGE WITHIN THE SPACE. SEE PLUMBING SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.
27. THE CONTRACTOR SHALL RETURN ALL DOORS, HARDWARE, LIGHTING FIXTURES, TOILET ACCESSORIES, GLASS PARTITIONS, MISCELLANEOUS EQUIPMENT, AND ANY OTHER ITEMS REQUESTED BY THE OWNER TO BE SAVED. THE CONTRACTOR SHALL GENERATE AN INVENTORY OF SALVAGED ITEMS (LIST WITH APPROPRIATE DESCRIPTIONS), AND COORDINATE DELIVERY LOCATION(S) & TIMING WITH THE OWNER.
28. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL ITEMS, INCLUDING BUT NOT LIMITED TO: PANELS, LIGHTING (DETERMINED TO BE DISPOSED OF), WIRING, CONDUIT, J-BOXES AND ASSOCIATED FASTENERS. ALL WIRING AND CONDUIT IS TO BE REMOVED BACK TO THE ELECTRICAL PANEL IT ORIGINATES FROM.
29. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED PLUMBING ITEMS. THESE INCLUDE, BUT ARE NOT LIMITED TO: PIPING FOR PLUMBING, SUPPORTS, PLUMBING FITTINGS, VALVES, AND PLUMBING FIXTURES. ABANDONED PIPING SHALL BE REMOVED BACK TO A SECURE AND PERMANENT TERMINATION POINT. THE CONTRACTOR SHALL COORDINATE ALL TERMINATION POINTS, WITH THE OWNER, PRIOR TO COMMENCING ANY DEMOLITION WORK.
30. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY ABANDONED MECHANICAL DUCTS, ASSOCIATED MECHANICAL EQUIPMENT AND WIRING. THIS INCLUDES BUT IS NOT LIMITED TO: ABANDONED DUCTWORK, MECHANICAL EQUIPMENT (DETERMINED TO BE DISPOSED OF), SUPPORTS AND WIRING TO ANY ABANDONED MECHANICAL EQUIPMENT.
31. THE CONTRACTOR WILL CAREFULLY REMOVE, SAVE AND RETURN, TO THE OWNER, ALL ITEMS SPECIFIED, OR VERBALLY REQUESTED BY THE OWNER, TO BE SALVAGED AND RETURNED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVING AND DISPOSING OF, IN A LEGAL AND DOCUMENTED MANNER, ALL OF THE MATERIALS BEING REMOVED IN THE DEMOLITION PROCESS NOT BEING RETURNED TO THE OWNER.
32. IN ADDITION TO THE PARTITIONS, FIXTURES, AND MEP ITEMS BEING REMOVED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OF THE EXISTING FINISH MATERIALS WITHIN THE DETERMINED AREA OF NEW CONSTRUCTION. THESE INCLUDE, BUT ARE NECESSARILY LIMITED TO: VCT, CARPET, CARPET TILE, AND ANY EXISTING WALL COVERINGS. SURFACES WITH FINISHES THAT HAVE BEEN REMOVED SHALL BE APPROPRIATELY PREPPED FOR THE INSTALLATION OF NEW FINISHES.
33. THE CONTRACTOR SHALL REMOVE ALL WALL BOARDS, LOOSE MATERIALS (TACKS, SCREWS, ANCHORS, ETC.) TO ALLOW FOR THE PROPER INSTALLATION OF THE NEW FINISHES.
34. THE CONTRACTOR SHALL IDENTIFY ALL EXISTING, IN-CONCRETE REINFORCING, USING EQUIPMENT APPROPRIATE FOR IMAGING AND LOCATING THE EXISTING REINFORCING STEEL. THIS INVESTIGATION SHOULD ALSO IDENTIFY ANY OTHER IN-CONCRETE ITEMS (CONDUITS, PIPE, POST-TENSIONING CABLES, ETC.) THAT MAY BE DAMAGED, OR OTHERWISE AFFECTED, BY ANY CUTTING, DRILLING OR BREAKING INTO THE EXISTING CONCRETE CONSTRUCTION (SLAB ON GRADE, FLOOR SLABS, SLABS OVER CRAWL SPACES, ETC.). THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT, IN WRITING, ABOUT ANY ITEMS DISCOVERED IN THE INVESTIGATION. NO CUTTING OR DAMAGE TO EXISTING IN-SLAB REINFORCEMENT, OR ANY OTHER IN-SLAB ITEMS IDENTIFIED IN THE INVESTIGATION, WILL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER AND ARCHITECT. THE ARCHITECT, AND ITS CONSULTANTS, SHALL PROVIDE DIRECTION FOR CUTTING, REPLACING, AND/OR ABANDONING ANY IN-CONCRETE ITEMS AFFECTED BY THE CUTTING, DRILLING OR BREAKING INTO EXISTING CONCRETE CONSTRUCTION.
35. ANY ITEMS DISCOVERED DURING DEMOLITION, THAT WERE NOT DISCOVERED IN THE INITIAL INVESTIGATION, SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION IMMEDIATELY. NO WORK SHALL BE DONE, ON OR AROUND THE DISCOVERED ITEM, UNTIL DIRECTION IS GIVEN BY THE OWNER AND ARCHITECT.
36. ALL EXISTING FLOOR DRAINS TO REMAIN SHOULD BE CAPPED DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.

NOTE: THE ITEMS ABOVE MAY NOT ALL APPLY TO THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE PROJECT'S SCOPE (FOR BOTH DEMOLITION AND THE NEW CONSTRUCTION) AND FOR RESPECTING & FOLLOWING THESE DIRECTIONS AS THEY APPLY TO THE PROJECT.

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REGISTERED ARCHITECT
BRIANT A. HARKIEWICZ
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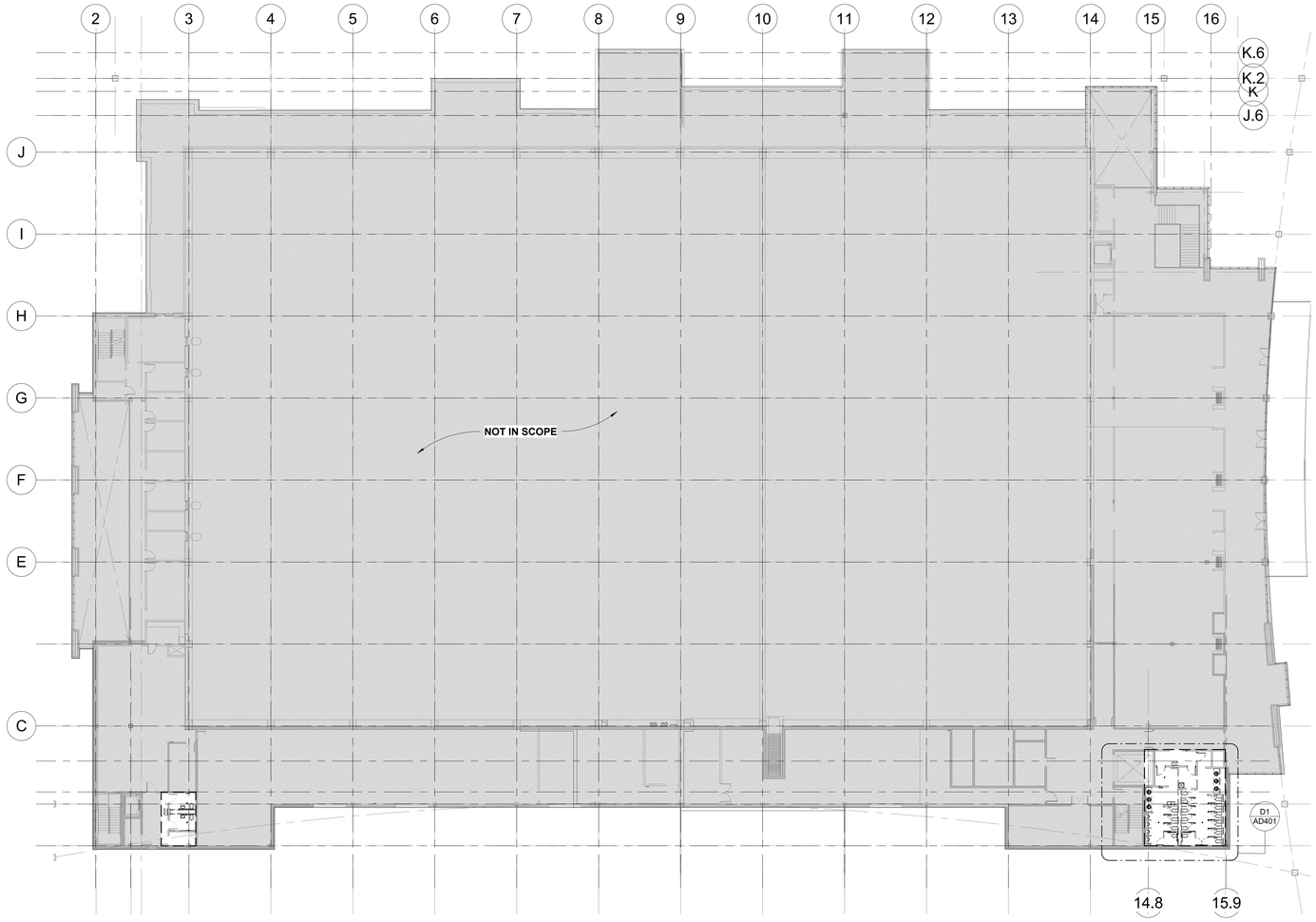
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 1 - OVERALL DEMO PLAN

SHEET NO.
AD101



D1 AD102 LEVEL 2 - OVERAL DEMOLITION PLAN

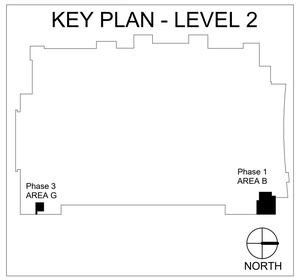
3/64" = 1'-0"

NORTH PLAN N.

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM



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21. ABANDONED OPENINGS IN FLOOR SLABS (HOLES LEFT BY CONDUIT AND FLOOR OUTLETS BEING REMOVED) SHALL BE FILLED FLUSH, WITH THE SURROUNDING CONCRETE SURFACE, USING A MINIMUM OF 3000 PSI CONCRETE. ALL HOLE INFILLS MUST PROVIDE THE SAME FIRE AND SMOKE SEPARATION AS THAT PROVIDED BY THE SURROUNDING FLOOR SLAB. PRIOR TO FILLING AN OPENING, APPLY AN APPROPRIATE BONDING AGENT, TO THE INSIDE SURFACE OF THE ABANDONED OPENING. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER AND ARCHITECT, THE CONCRETE MIX BEING USED BEFORE INSTALLING THE CONCRETE. FOR OPENINGS LARGER THAN 6" IN DIAMETER, OR SQUARE, CONSULT THE ARCHITECT PRIOR TO MOVING FORWARD. ALL INFILL CONSTRUCTION MUST PROVIDE THE SAME, OR BETTER, LOAD CAPACITIES, AND FIRE RESISTANCE, AS THAT OF THE SURROUNDING CONSTRUCTION.
22. NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, AND/OR FLOOR SLABS, SHALL BE SEALED IMMEDIATELY, HAVE A FINISH SURFACE FLUSH WITH THE ADJACENT CONSTRUCTION, AND MEET ALL RATING AND SEPARATION REQUIREMENTS MANDATED BY BUILDING CODES AND ANY AUTHORITY HAVING JURISDICTION.
23. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, OR UNDUE WEAR, ALL EXISTING LIFE SAFETY RELATED ITEMS DURING THE DEMOLITION AND CONSTRUCTION. THESE INCLUDE: EXISTING SMOKE DETECTORS, EXISTING PUBLIC ADDRESS SPEAKERS, EXISTING FIRE ALARM BOXES, EXISTING STROBES, AND ALL OF THE ASSOCIATED WIRING.
24. COSTS FOR REINSTALLATION, RELOCATION, AND REFURBISHMENT, OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM RELATED EQUIPMENT, NECESSITATED BY THE NEW CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE, WITH THE OWNER, ANY REQUIRED MODIFICATIONS, ADDITIONS OR ADJUSTMENTS TO THE EXISTING FIRE ALARM SYSTEM.
25. EXISTING SPRINKLER HEADS AND ASSOCIATED PIPE & CONTROLS, WITHIN THE SPACE, SHALL BE PROTECTED FROM ANY POTENTIAL DAMAGE. ALL OF THE HEADS SHALL REMAIN ACTIVE AT ALL TIMES AND PROVIDE THE REQUIRED FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM WITH THE AUTHORITIES HAVING JURISDICTION (FIRE MARSHAL, CITY, ETC.) ANY REQUIREMENTS THAT APPLY TO THIS PROJECT.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND RELOCATING THE SPRINKLER HEADS, AS REQUIRED, TO INSURE THE PROPER SPACING OF HEADS AND SPRINKLER SYSTEM COVERAGE WITHIN THE SPACE. SEE PLUMBING SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.
27. THE CONTRACTOR SHALL RETURN ALL DOORS, HARDWARE, LIGHTING FIXTURES, TOILET ACCESSORIES, GLASS PARTITIONS, MISCELLANEOUS EQUIPMENT, AND ANY OTHER ITEMS REQUESTED BY THE OWNER TO BE SAVED. THE CONTRACTOR SHALL GENERATE AN INVENTORY OF SALVAGED ITEMS (LIST WITH APPROPRIATE DESCRIPTIONS), AND COORDINATE DELIVERY LOCATION(S) & TIMING WITH THE OWNER.
28. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL ITEMS, INCLUDING BUT NOT LIMITED TO: PANELS, LIGHTING (DETERMINED TO BE DISPOSED OF), WIRING, CONDUIT, J-BOXES AND ASSOCIATED FASTENERS. ALL WIRING AND CONDUIT IS TO BE REMOVED BACK TO THE ELECTRICAL PANEL IT ORIGINATES FROM.
29. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED PLUMBING ITEMS. THESE INCLUDE, BUT ARE NOT LIMITED TO: PIPING FOR PLUMBING, SUPPORTS, PLUMBING FITTINGS, VALVES, AND PLUMBING FIXTURES. ABANDONED PIPING SHALL BE REMOVED BACK TO A SECURE AND PERMANENT TERMINATION POINT. THE CONTRACTOR SHALL COORDINATE ALL TERMINATION POINTS, WITH THE OWNER, PRIOR TO COMMENCING ANY DEMOLITION WORK.
30. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY ABANDONED MECHANICAL DUCTS, ASSOCIATED MECHANICAL EQUIPMENT AND WIRING. THIS INCLUDES BUT IS NOT LIMITED TO: ABANDONED DUCTWORK, MECHANICAL EQUIPMENT (DETERMINED TO BE DISPOSED OF), SUPPORTS AND WIRING TO ANY ABANDONED MECHANICAL EQUIPMENT.
31. THE CONTRACTOR WILL CAREFULLY REMOVE, SAVE AND RETURN, TO THE OWNER, ALL ITEMS SPECIFIED, OR VERBALLY REQUESTED BY THE OWNER, TO BE SALVAGED AND RETURNED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR REMOVING AND DISPOSING OF, IN A LEGAL AND DOCUMENTED MANNER, ALL OF THE MATERIALS BEING REMOVED IN THE DEMOLITION PROCESS NOT BEING RETURNED TO THE OWNER.
32. IN ADDITION TO THE PARTITIONS, FIXTURES, AND MEP ITEMS BEING REMOVED, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OF THE EXISTING FINISH MATERIALS WITHIN THE DETERMINED AREA OF NEW CONSTRUCTION. THESE INCLUDE, BUT ARE NECESSARILY LIMITED TO: VCT, CARPET, CARPET TILE, AND ANY EXISTING WALL COVERINGS. SURFACES WITH FINISHES THAT HAVE BEEN REMOVED SHALL BE APPROPRIATELY PREPPED FOR THE INSTALLATION OF NEW FINISHES.
33. THE CONTRACTOR SHALL REMOVE ALL WALL BOARDS, LOOSE MATERIALS (TACKS, SCREWS, ANCHORS, ETC.) TO ALLOW FOR THE PROPER INSTALLATION OF THE NEW FINISHES.
34. THE CONTRACTOR SHALL IDENTIFY ALL EXISTING, IN-CONCRETE REINFORCING, USING EQUIPMENT APPROPRIATE FOR IMAGING AND LOCATING THE EXISTING REINFORCING STEEL. THIS INVESTIGATION SHOULD ALSO IDENTIFY ANY OTHER IN-CONCRETE ITEMS (CONDUITS, PIPE, POST-TENSIONING CABLES, ETC.) THAT MAY BE DAMAGED, OR OTHERWISE AFFECTED, BY ANY CUTTING, DRILLING OR BREAKING INTO THE EXISTING CONCRETE CONSTRUCTION (SLAB ON GRADE, FLOOR SLABS, SLABS OVER CRAWL SPACES, ETC.). THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARCHITECT, IN WRITING, ABOUT ANY ITEMS DISCOVERED IN THE INVESTIGATION. NO CUTTING OR DAMAGE TO EXISTING IN-SLAB REINFORCEMENT, OR ANY OTHER IN-SLAB ITEMS IDENTIFIED IN THE INVESTIGATION, WILL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER AND ARCHITECT. THE ARCHITECT, AND ITS CONSULTANTS, SHALL PROVIDE DIRECTION FOR CUTTING, REPLACING, AND/OR ABANDONING ANY IN-CONCRETE ITEMS AFFECTED BY THE CUTTING, DRILLING OR BREAKING INTO EXISTING CONCRETE CONSTRUCTION.
35. ANY ITEMS DISCOVERED DURING DEMOLITION, THAT WERE NOT DISCOVERED IN THE INITIAL INVESTIGATION, SHALL BE BROUGHT TO THE OWNER AND ARCHITECT'S ATTENTION IMMEDIATELY. NO WORK SHALL BE DONE, ON OR AROUND THE DISCOVERED ITEM, UNTIL DIRECTION IS GIVEN BY THE OWNER AND ARCHITECT.
36. ALL EXISTING FLOOR DRAINS TO REMAIN SHOULD BE CAPPED DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.

NOTE: THE ITEMS ABOVE MAY NOT ALL APPLY TO THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE PROJECT'S SCOPE (FOR BOTH DEMOLITION AND THE NEW CONSTRUCTION) AND FOR RESPECTING & FOLLOWING THESE DIRECTIONS AS THEY APPLY TO THE PROJECT.

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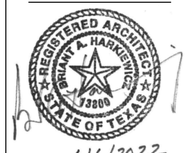
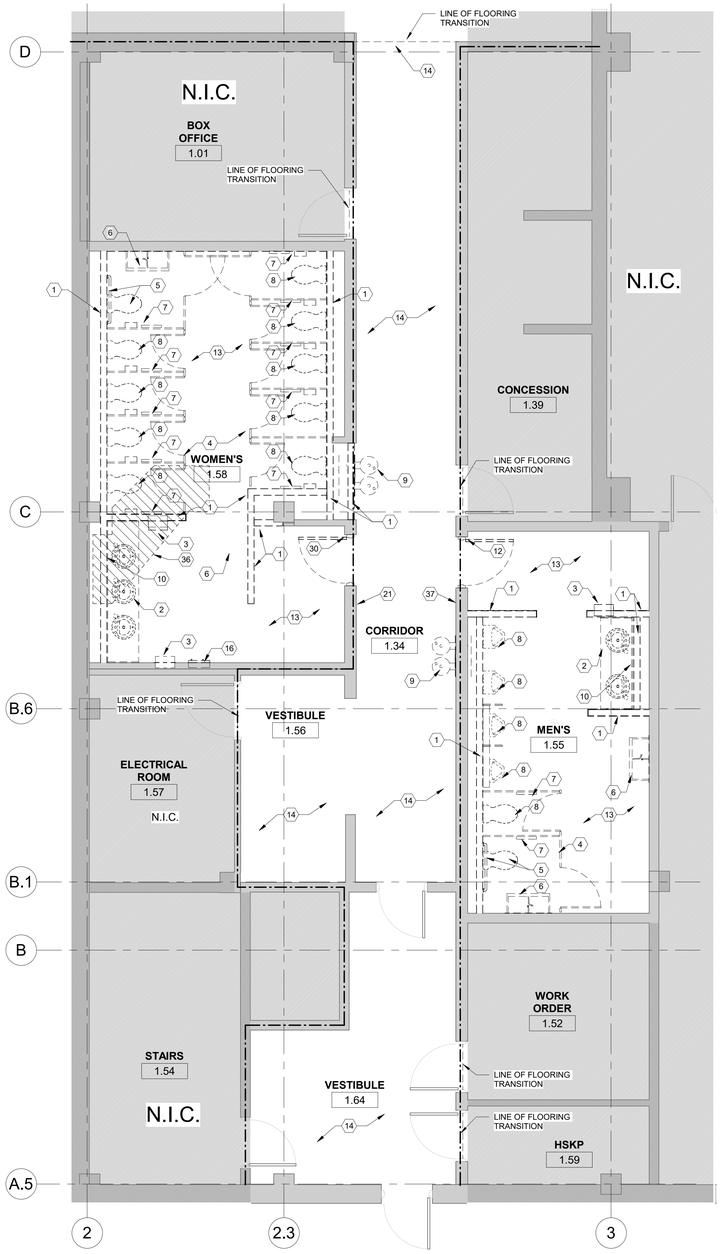


CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 2 - OVERALL DEMO PLAN

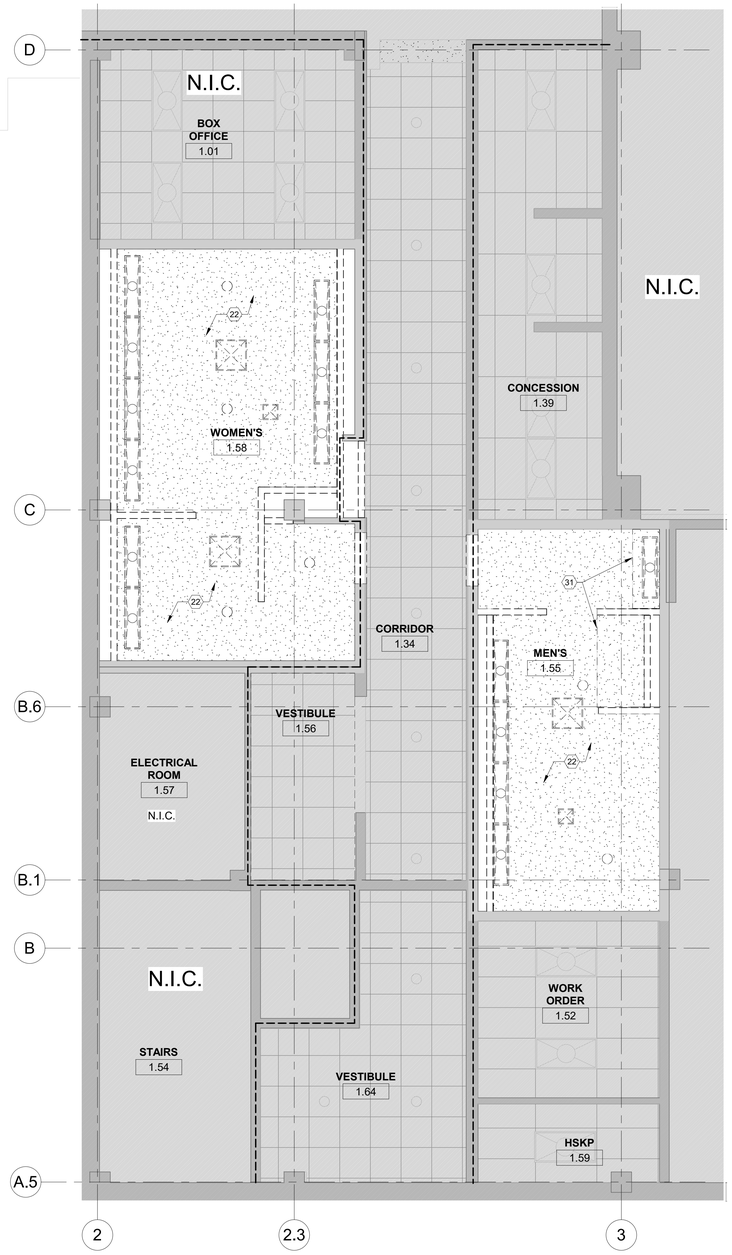
SHEET NO.
AD102



D1 AD401 LEVEL 1: ENLARGED DEMO PLAN - SOUTH RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



D3 AD401 LEVEL 1: ENLARGED DEMO RCP - SOUTH RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

DEMOLITION KEY NOTES LEGEND	
KEY NOTE	DEMOLITION NOTE
1	REMOVE PORTION OF EXISTING WALL INCLUDING WALL BASE, ACCESSORIES OR FIXTURES. PATCH AND REPAIR WALLS THAT REMAIN.
2	REMOVE COUNTER INCLUDING FAUCET, SOAP DISPENSER AND SINKS
3	REMOVE SEMI RECESSED TRASH CAN AND PAPER TOWEL DISPENSER. SALVAGE THE PAPER TOWEL DISPENSER. PATCH AND REPAIR WALL.
4	REMOVE RESTROOM PARTITIONS
5	REMOVE TOILET AND GRAB BARS IN THEIR ENTIRETY.
6	REMOVE BABY CHANGING TABLE. PATCH AND REPAIR WALL AS NEEDED.
7	REMOVE TOILET ACCESSORIES
8	REMOVE TOILET / URINAL
9	REMOVE DRINKING FOUNTAIN. PATCH AND REPAIR WALL AS NEEDED.
10	REMOVE MIRROR. PATCH AND REPAIR WALL AS NEEDED.
11	MAINTAIN EXISTING FIRE HOSE AND FIRE EXISTINGUISHER CABINET. CLEAN ALL SIDES AND INSIDE OF CABINET
12	REMOVE DOOR AND FRAME, SALVAGE AND REPAIR FOR REINSTALLATION IN PROJECT. ALL AUTO CLOSER HARDWARE TO BE REPLACED.
13	REMOVE FLOOR AND WALL TILE FROM FULL ROOM. REPAIR SUBSTRATE TO RECEIVE NEW TILE
14	REMOVE LVT FLOORING IN FULL ROOM. BASE TO BE REMOVED AND SALVAGED FOR COLOR MATCHING PURPOSES.
15	PROTECT EXISTING WOOD WALL PANELS IN VESTIBULE AND ENTRANCE INTO VESTIBULE AND IN CORRIDOR
16	REMOVE SANITARY NAPKIN DISPENSER. PATCH AND REPAIR WALL.
17	REMOVE MOP SINK AND FAUCET. PREPARE TO RECEIVE NEW
18	REMOVE COUNTER AND SUPPORT BRACKETS. PATCH AND REPAIR WALLS.
19	REMOVE WALL MOUNTED SINK
20	REMOVE SHOWER SEAT AND GRAB BARS.
21	CAREFULLY REMOVE, SALVAGE, CLEAN AND PROTECT EXISTING RESTROOM SIGNAGE. REINSTALL IN LOCATIONS AS INDICATED ON DRAWINGS.
22	REMOVE EXISTING LIGHT FIXTURES
23	REMOVE EXISTING CEILING AND ASSOCIATED LIGHT FIXTURES
24	REMOVE PORTION OF EXTERIOR WALL TO RECEIVE NEW DOOR.
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26	REMOVE VCT FLOORING AND WALL BASE. PREP SUBSTRATE TO RECEIVE NEW FINISHES
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28	REMOVE PORTION OF EXISTING WALL TO RECEIVE NEW TOILET ACCESSORY
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30	REMOVE AND SALVAGE DOOR AND FRAME TO BE REINSTALLED
31	REMOVE PORTION OF EXISTING CEILING
32	VERIFY EXISTING GRAB BARS ARE INSTALLED ADA COMPLIANT. RELOCATE FIXTURES ACCORDINGLY
33	REMOVE TOILET PAPER DISPENSER AND SALVAGE TO REINSTALL AS INDICATED ON ELEVATIONS
34	RELOCATE FIRE EXTINGUISHER SIGN TO OPPOSITE SIDE OF DOORWAY
35	SAWCUT EXISTING SLAB FOR NEW FLOOR DRAIN
36	TRENCH CUTOUT OF EXISTING SLAB TO REPLACE SEWER LINE PIPE.
37	REMOVE SIGNAGE AND REPLACE WITH NEW TO MATCH FACILITY STANDARDS.

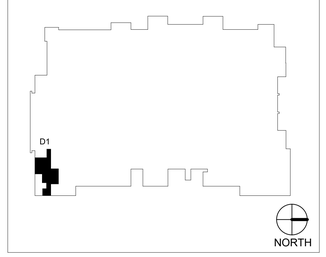
DEMOLITION LEGEND

- EXISTING PARTITION, DOOR, GLAZING AND FRAMES TO BE REMOVED
- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

DEMOLITION RCP LEGEND

- 2'X2' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X4' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- 2'X4' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- AP — ACCESS PANEL
- 10" - 0" — CEILING TAG WITH HEIGHT
- SUPPLY GRILLE
- 2'X2' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- RETURN GRILLE
- EXHAUST GRILLE

KEY PLAN - LEVEL 1



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REGISTERED ARCHITECT BRIANT A. HARMONICK 13800 STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
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900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
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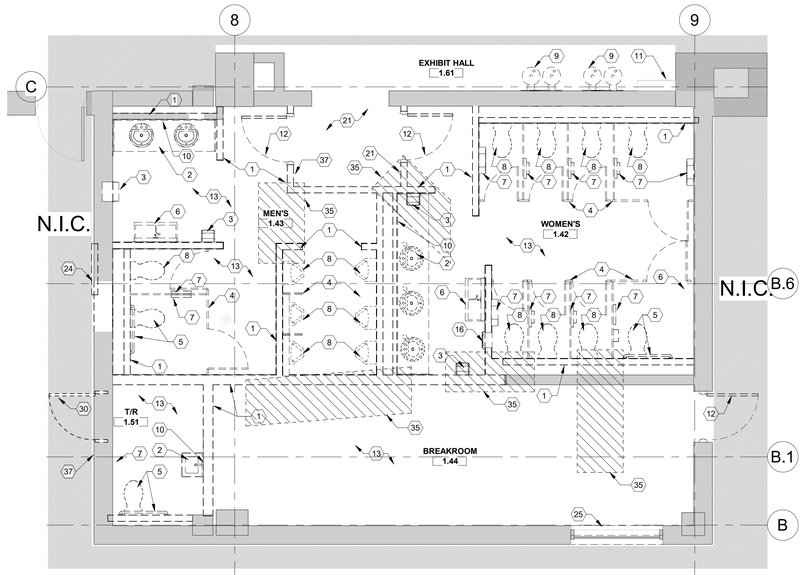
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLAN - SOUTH

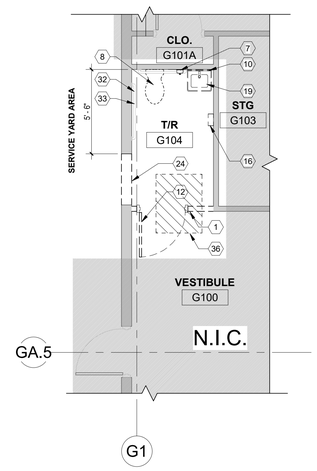
SHEET NO.
AD401



B1 AD402 LEVEL 1: ENLARGED DEMO PLAN - EAST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



B4 AD402 LEVEL 1 - ENLARGED DEMO PLAN - GARAGE

1/4" = 1'-0"

NORTH PLAN N.

DEMOLITION KEY NOTES LEGEND	
KEY NOTE	DEMOLITION NOTE
1	REMOVE PORTION OF EXISTING WALL INCLUDING WALL BASE, ACCESSORIES OR FIXTURES. PATCH AND REPAIR WALLS THAT REMAIN.
2	REMOVE COUNTER INCLUDING FAUCET, SOAP DISPENSER AND SINKS
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7	REMOVE TOILET ACCESSORIES
8	REMOVE TOILET / URINAL
9	REMOVE DRINKING FOUNTAIN. PATCH AND REPAIR WALL AS NEEDED.
10	REMOVE MIRROR. PATCH AND REPAIR WALL AS NEEDED.
11	MAINTAIN EXISTING FIRE HOSE AND FIRE EXISTINGUISHER CABINET. CLEAN ALL SIDES AND INSIDE OF CABINET
12	REMOVE DOOR AND FRAME, SALVAGE AND REPAIR FOR REINSTALLATION IN PROJECT. ALL AUTO CLOSER HARDWARE TO BE REPLACED.
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20	REMOVE SHOWER SEAT AND GRAB BARS.
21	CAREFULLY REMOVE, SALVAGE, CLEAN AND PROTECT EXISTING RESTROOM SIGNAGE. REINSTALL IN LOCATIONS AS INDICATED ON DRAWINGS.
22	REMOVE EXISTING LIGHT FIXTURES
23	REMOVE EXISTING CEILING AND ASSOCIATED LIGHT FIXTURES
24	REMOVE PORTION OF EXTERIOR WALL TO RECEIVE NEW DOOR.
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30	REMOVE AND SALVAGE DOOR AND FRAME TO BE REINSTALLED
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32	VERIFY EXISTING GRAB BARS ARE INSTALLED ADA COMPLIANT. RELOCATE FIXTURES ACCORDINGLY
33	REMOVE TOILET PAPER DISPENSER AND SALVAGE TO REINSTALL AS INDICATED ON ELEVATIONS
34	RELOCATE FIRE EXTINGUISHER SIGN TO OPPOSITE SIDE OF DOORWAY
35	SAWCUT EXISTING SLAB FOR NEW FLOOR DRAIN
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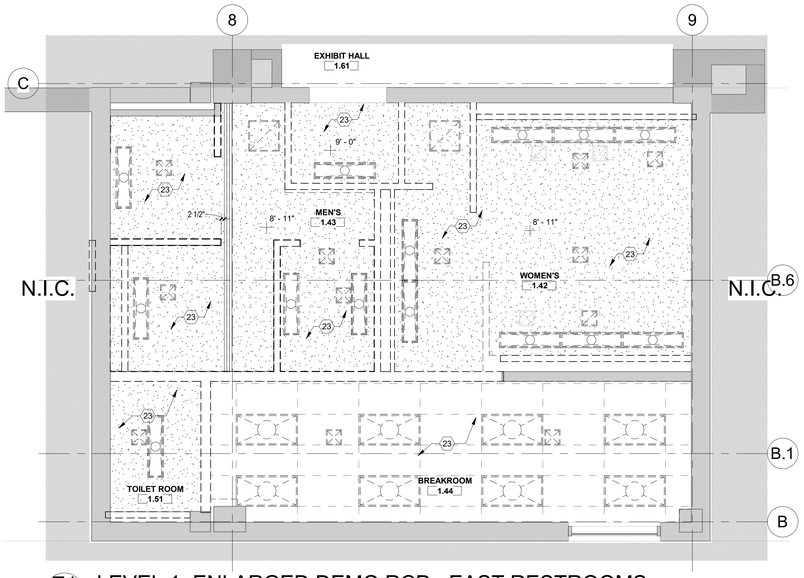
DEMOLITION LEGEND

- EXISTING PARTITION, DOOR, GLAZING AND FRAMES TO BE REMOVED
- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

DEMOLITION RCP LEGEND

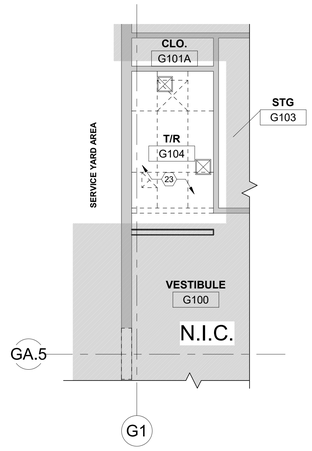
- 2'X2' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X4' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- 2'X4' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- AP — ACCESS PANEL
- 10' - 0" — CEILING TAG WITH HEIGHT
- SUPPLY GRILLE
- 2'X2' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- RETURN GRILLE
- EXHAUST GRILLE



E1 AD402 LEVEL 1: ENLARGED DEMO RCP - EAST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

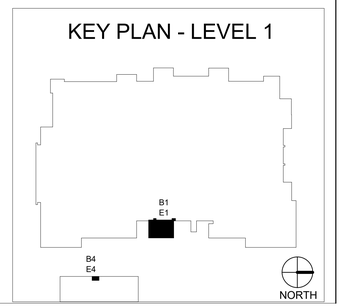


E4 AD402 LEVEL 1 - ENLARGED DEMO RCP - GARAGE

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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REGISTERED ARCHITECT
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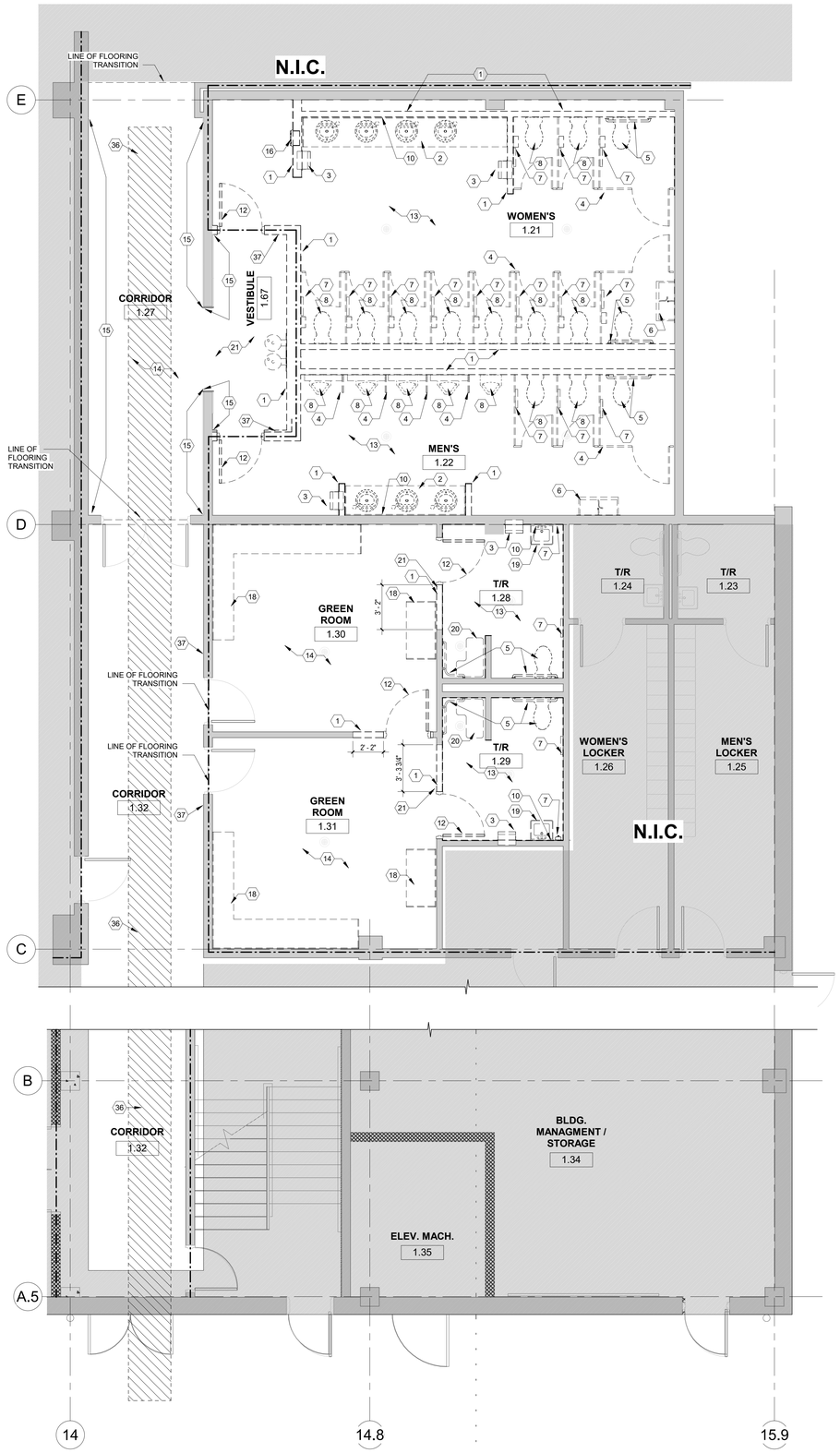
STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

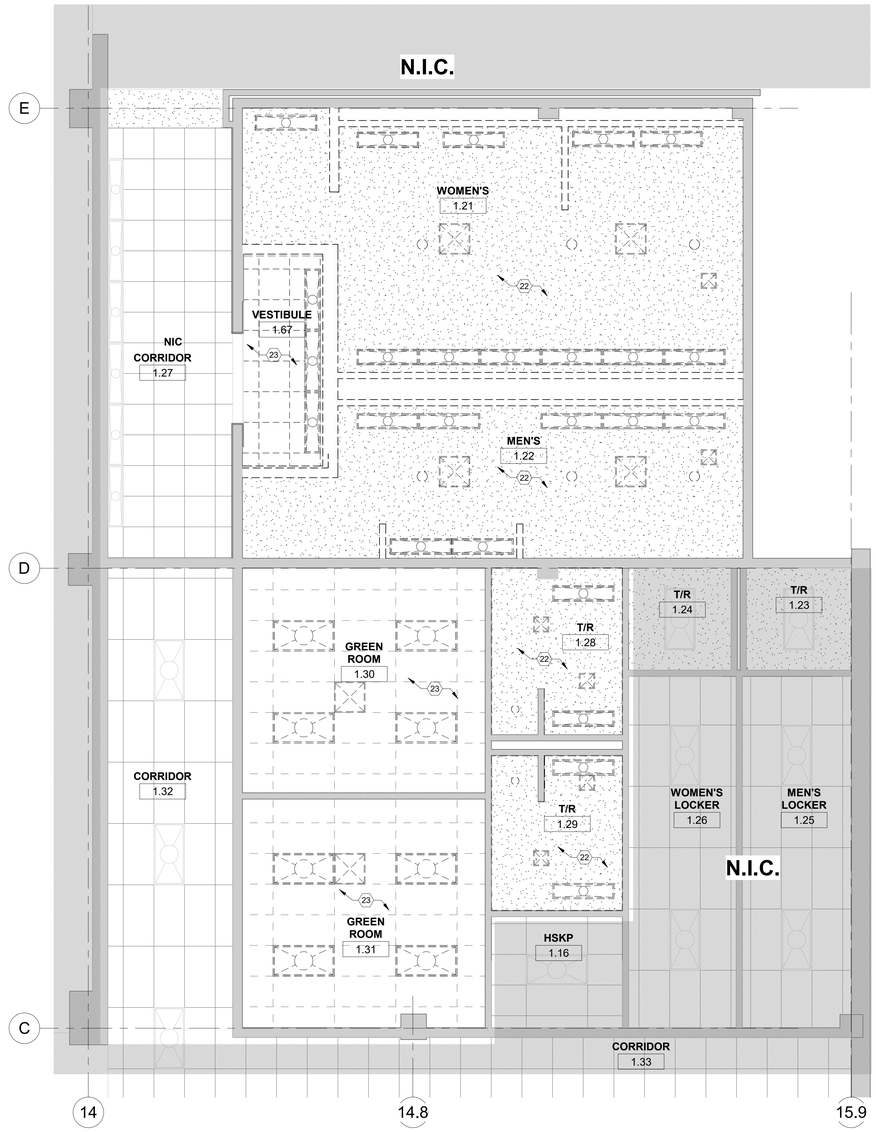
SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLAN - EAST & GARAGE

SHEET NO.
AD402



E1 LEVEL 1: ENLARGED DEMO PLAN - NORTH RESTROOMS
AD403
1/4" = 1'-0"

NORTH PLAN N.



D3 LEVEL 1: ENLARGED DEMO RCP - NORTH RESTROOMS
AD403
1/4" = 1'-0"

NORTH PLAN N.

DEMOLITION KEY NOTES LEGEND	
KEY NOTE	DEMOLITION NOTE
1	REMOVE PORTION OF EXISTING WALL INCLUDING WALL BASE, ACCESSORIES OR FIXTURES. PATCH AND REPAIR WALLS THAT REMAIN.
2	REMOVE COUNTER INCLUDING FAUCET, SOAP DISPENSER AND SINKS
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23	REMOVE EXISTING CEILING AND ASSOCIATED LIGHT FIXTURES
24	REMOVE PORTION OF EXTERIOR WALL TO RECEIVE NEW DOOR.
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26	REMOVE VCT FLOORING AND WALL BASE. PREP SUBSTRATE TO RECEIVE NEW FINISHES
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28	REMOVE PORTION OF EXISTING WALL TO RECEIVE NEW TOILET ACCESSORY
29	REMOVE PORTION OF EXISTING WALL TO RECEIVE NEW EXTINGUISHER CABINET
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31	REMOVE PORTION OF EXISTING CEILING
32	VERIFY EXISTING GRAB BARS ARE INSTALLED ADA COMPLIANT. RELOCATE FIXTURES ACCORDINGLY
33	REMOVE TOILET PAPER DISPENSER AND SALVAGE TO REINSTALL AS INDICATED ON ELEVATIONS
34	RELOCATE FIRE EXTINGUISHER SIGN TO OPPOSITE SIDE OF DOORWAY
35	SAWCUT EXISTING SLAB FOR NEW FLOOR DRAIN
36	TRENCH CUTOUT OF EXISTING SLAB TO REPLACE SEWER LINE PIPE.
37	REMOVE SIGNAGE AND REPLACE WITH NEW TO MATCH FACILITY STANDARDS.

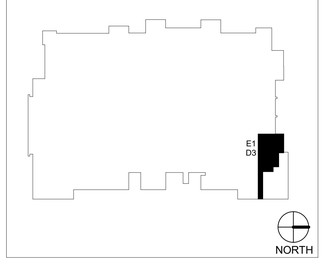
DEMOLITION LEGEND

- EXISTING PARTITION, DOOR, GLAZING AND FRAMES TO BE REMOVED
- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

DEMOLITION RCP LEGEND

- 2'X2' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X4' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- 2'X4' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- AP — ACCESS PANEL
- 10' - 0" — CEILING TAG WITH HEIGHT
- SUPPLY GRILLE
- 2'X2' FLUORESCENT FIXTURE
- EXIT SIGN, SINGLE-SIDED
- EXIT SIGN, DOUBLE-SIDED
- RETURN GRILLE
- EXHAUST GRILLE

KEY PLAN - LEVEL 1



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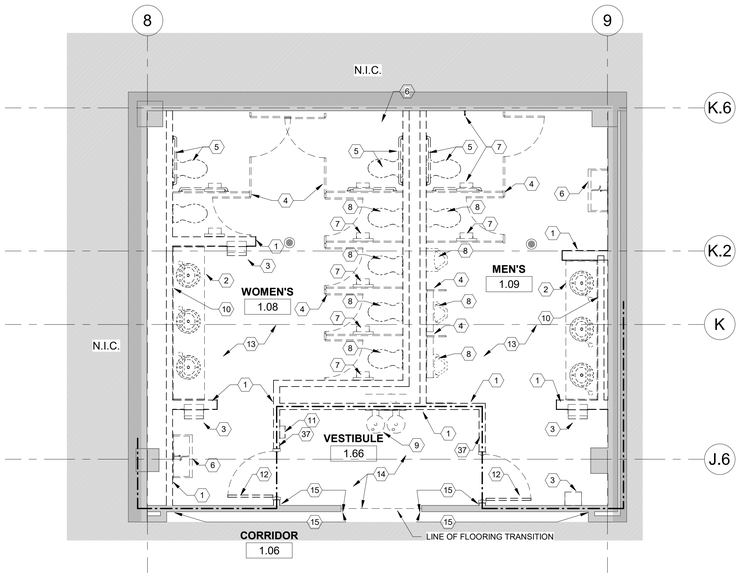
REGISTERED ARCHITECT BRIANT A. HARKENCLER 13800 STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

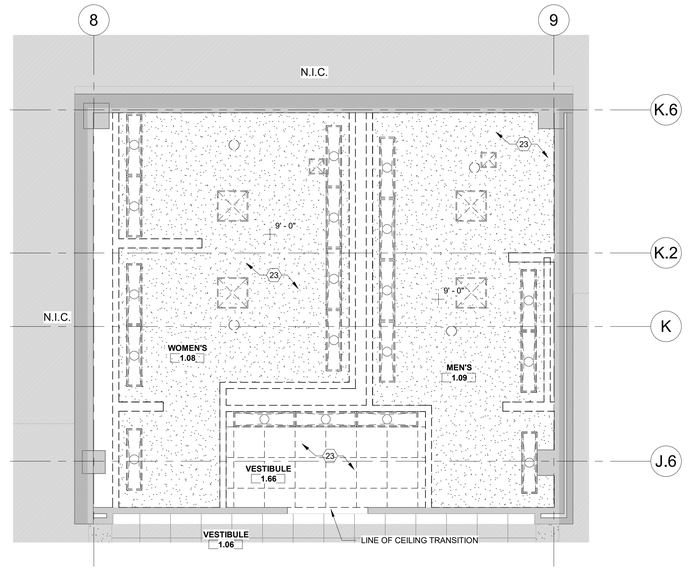
SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLAN - NORTH

SHEET NO.
AD403



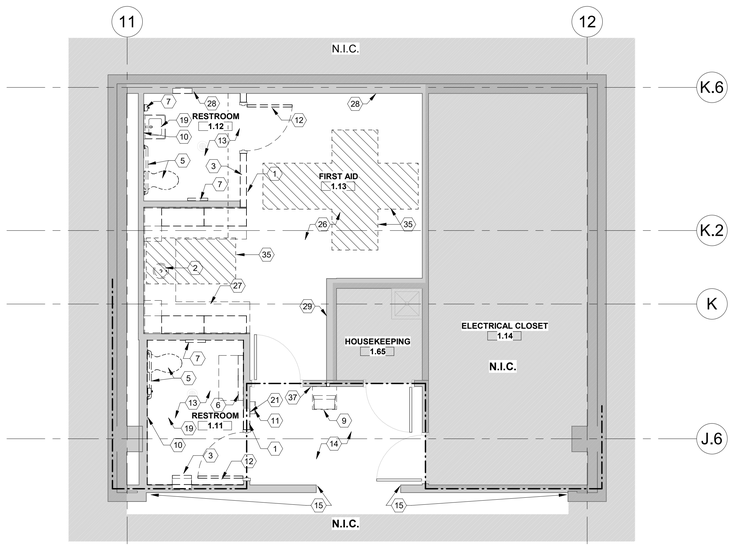
B1 LEVEL 1: ENLARGED DEMO PLAN - WEST RESTROOMS
AD404 1/4" = 1'-0"

NORTH PLAN N.



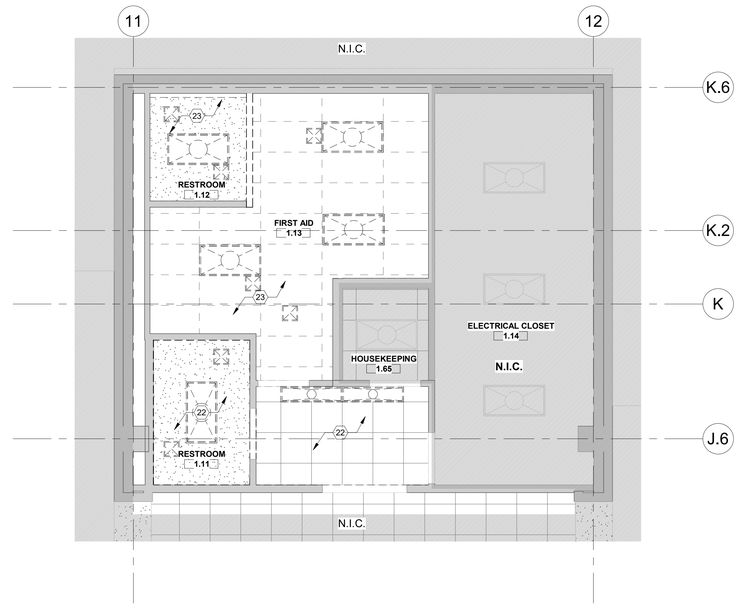
B3 LEVEL 1: ENLARGED DEMO RCP - WEST RESTROOMS
AD404 1/4" = 1'-0"

NORTH PLAN N.



E1 LEVEL 1: ENLARGED DEMO PLAN - WEST FAMILY RESTROOMS
AD404 1/4" = 1'-0"

NORTH PLAN N.



E3 LEVEL 1: ENLARGED DEMO RCP - WEST FAMILY RESTROOMS
AD404 1/4" = 1'-0"

NORTH PLAN N.

DEMOLITION KEY NOTES LEGEND	
KEY NOTE	DEMOLITION NOTE
1	REMOVE PORTION OF EXISTING WALL INCLUDING WALL BASE, ACCESSORIES OR FIXTURES. PATCH AND REPAIR WALLS THAT REMAIN.
2	REMOVE COUNTER INCLUDING FAUCET, SOAP DISPENSER AND SINKS
3	REMOVE SEMI RECESSED TRASH CAN AND PAPER TOWEL DISPENSER. SALVAGE THE PAPER TOWEL DISPENSER. PATCH AND REPAIR WALL.
4	REMOVE RESTROOM PARTITIONS
5	REMOVE TOILET AND GRAB BARS IN THEIR ENTIRETY.
6	REMOVE BABY CHANGING TABLE. PATCH AND REPAIR WALL AS NEEDED.
7	REMOVE TOILET ACCESSORIES
8	REMOVE TOILET / URINAL
9	REMOVE DRINKING FOUNTAIN. PATCH AND REPAIR WALL AS NEEDED.
10	REMOVE MIRROR. PATCH AND REPAIR WALL AS NEEDED.
11	MAINTAIN EXISTING FIRE HOSE AND FIRE EXISTINGUISHER CABINET. CLEAN ALL SIDES AND INSIDE OF CABINET
12	REMOVE DOOR AND FRAME, SALVAGE AND REPAIR FOR REINSTALLATION IN PROJECT. ALL AUTO CLOSER HARDWARE TO BE REPLACED.
13	REMOVE FLOOR AND WALL TILE FROM FULL ROOM. REPAIR SUBSTRATE TO RECEIVE NEW TILE
14	REMOVE LVT FLOORING IN FULL ROOM. BASE TO BE REMOVED AND SALVAGED FOR COLOR MATCHING PURPOSES.
15	PROTECT EXISTING WOOD WALL PANELS IN VESTIBULE AND ENTRANCE INTO VESTIBULE AND IN CORRIDOR
16	REMOVE SANITARY NAPKIN DISPENSER. PATCH AND REPAIR WALL.
17	REMOVE MOP SINK AND FAUCET. PREPARE TO RECEIVE NEW
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19	REMOVE WALL MOUNTED SINK
20	REMOVE SHOWER SEAT AND GRAB BARS.
21	CAREFULLY REMOVE, SALVAGE, CLEAN AND PROTECT EXISTING RESTROOM SIGNAGE. REINSTALL IN LOCATIONS AS INDICATED ON DRAWINGS.
22	REMOVE EXISTING LIGHT FIXTURES
23	REMOVE EXISTING CEILING AND ASSOCIATED LIGHT FIXTURES
24	REMOVE PORTION OF EXTERIOR WALL TO RECEIVE NEW DOOR.
25	REMOVE WINDOW AND FRAME IN ITS ENTIRETY. PREPARE TO RECEIVE NEW FINISHES TO MATCH EXISTING EXTERIOR
26	REMOVE VCT FLOORING AND WALL BASE. PREP SUBSTRATE TO RECEIVE NEW FINISHES
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DEMOLITION RCP LEGEND

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- 2'X4' LAY IN ACOUSTIC TILE CEILING TO BE REMOVED
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- RETURN GRILLE
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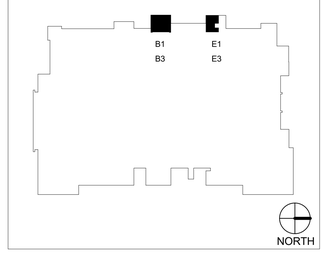
KEY PLAN - LEVEL 1



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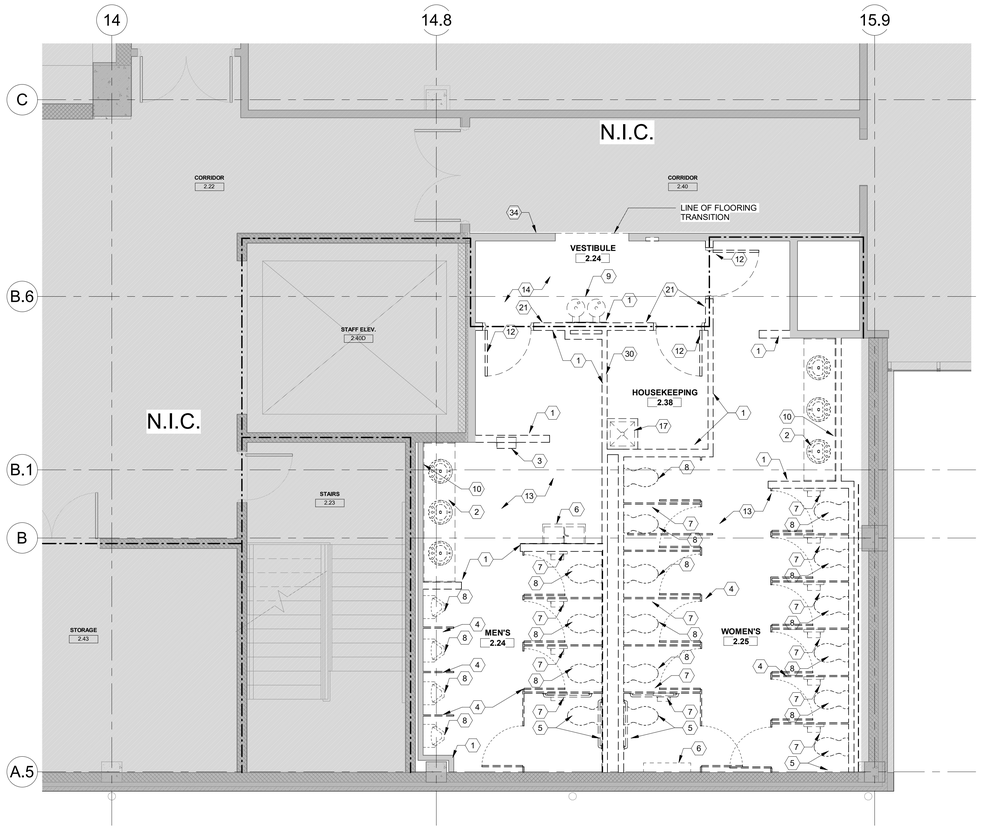
SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLANS - WEST

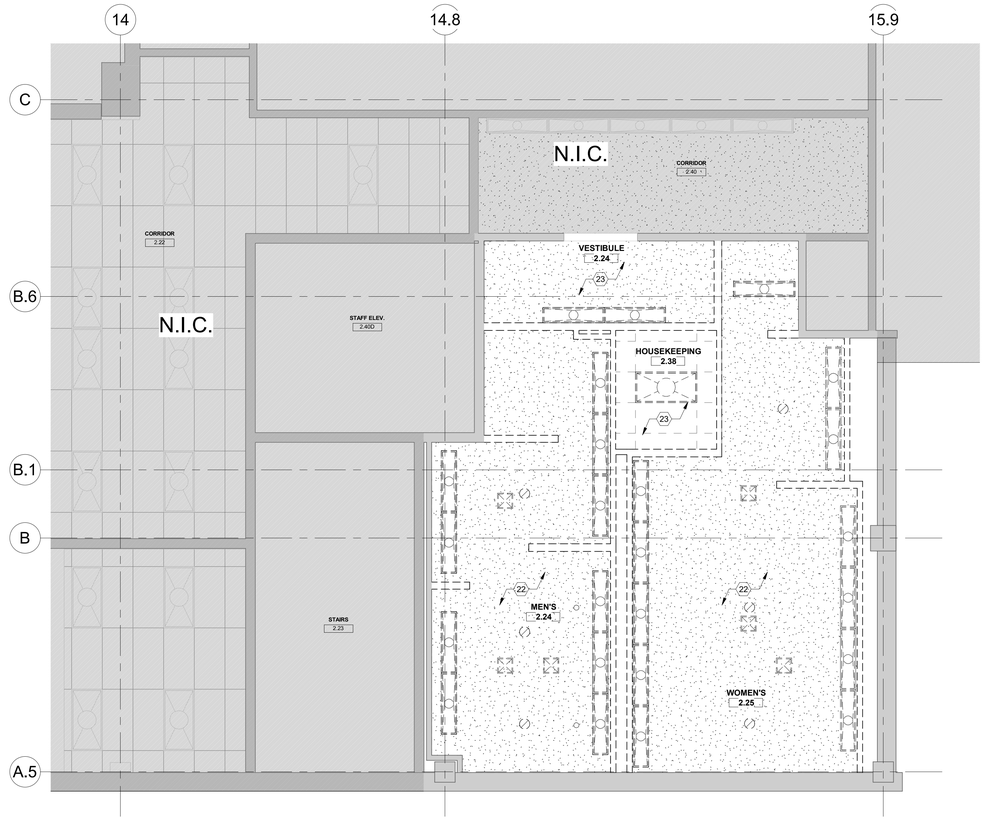
SHEET NO.
AD404



C1 LEVEL 2 - ENLARGED DEMO PLAN - NORTH RESTROOMS

AD405 1/4" = 1'-0"

NORTH PLAN N.



C4 LEVEL 2 - ENLARGED DEMO RCP - NORTH RESTROOMS

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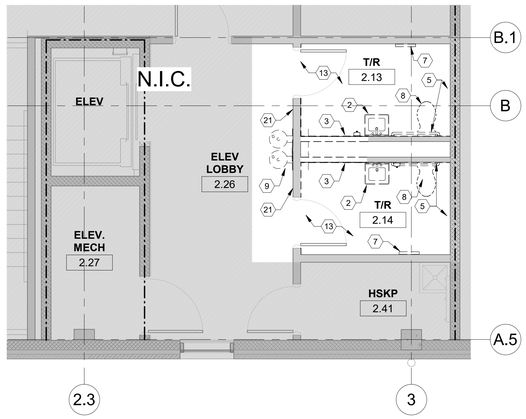
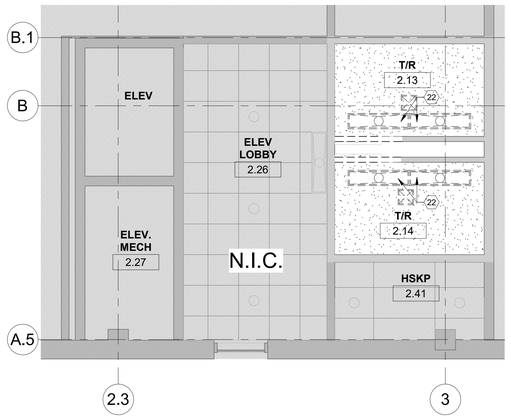


D3 LEVEL 2 - ENLARGED DEMO PLAN (STAFF)

AD405 1/4" = 1'-0"

NORTH PLAN N.

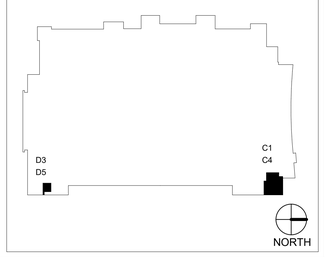


D5 LEVEL 2 - ENLARGED DEMO RCP (STAFF)

AD405 1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



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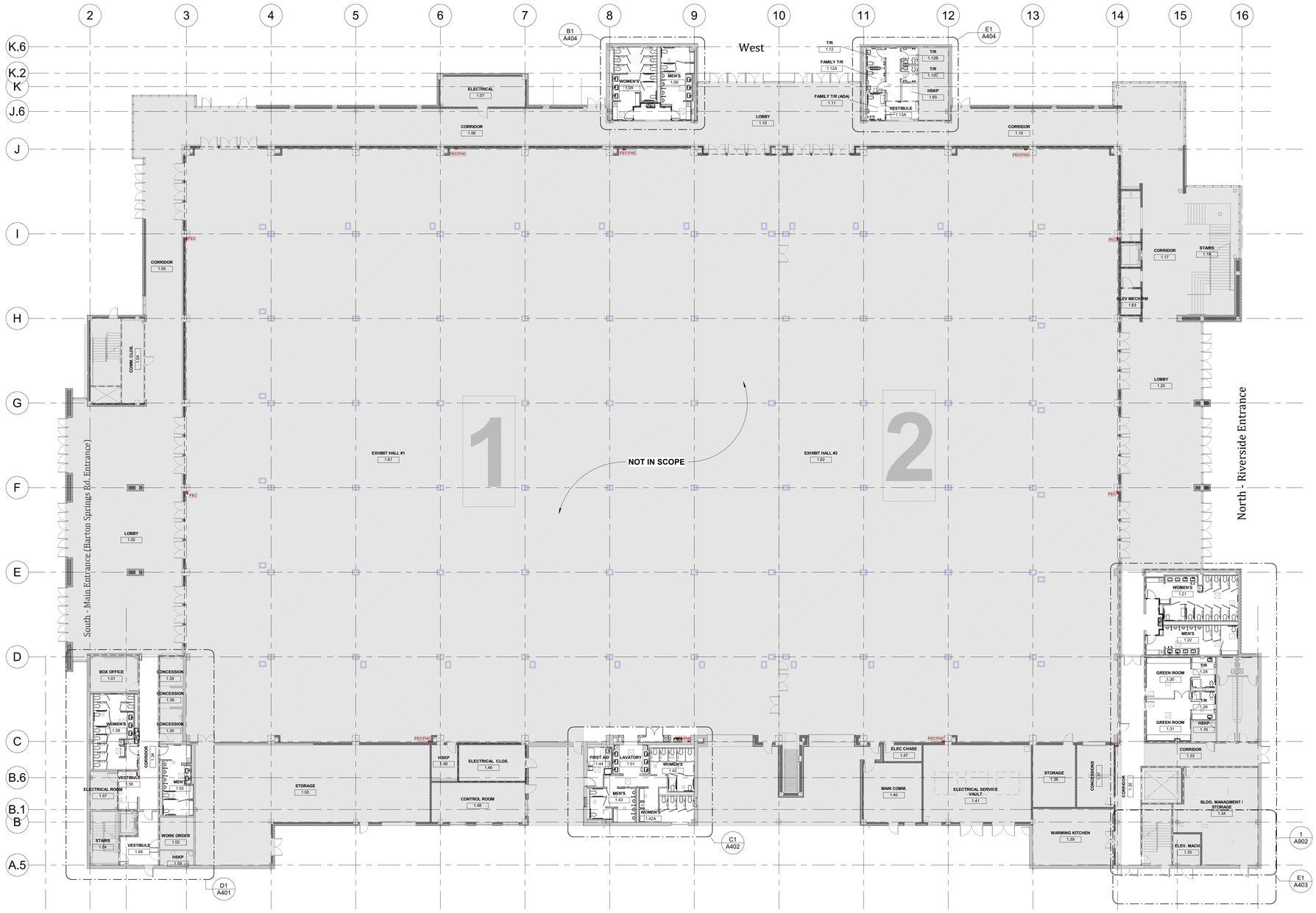
LEVEL 2 - ENLARGED DEMO PLANS

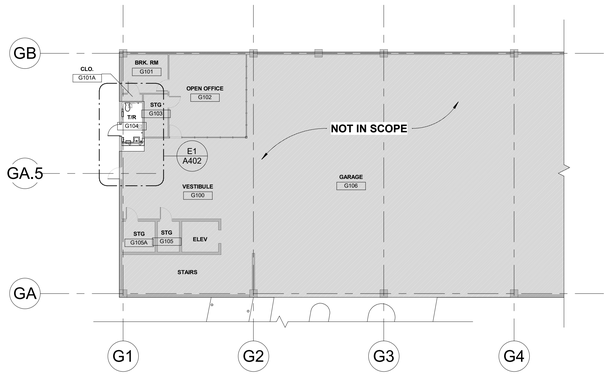
SHEET NO.
AD405



D1 A101 LEVEL 1 - OVERALL FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.



E1 A101 LEVEL 1 - GARAGE OVERALL FLOOR PLAN

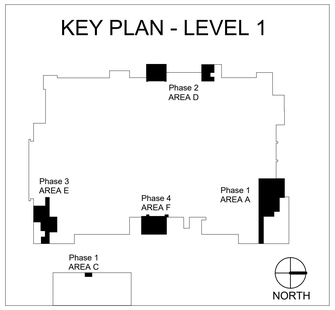
1/16" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE FOR DELIVERING THE PROJECT IN ACCORDANCE WITH THE DESIGN DESCRIBED IN THE DRAWINGS & SPECIFICATIONS, AND FOR ALL MEANS & METHODS RELATED TO, AND REQUIRED FOR, THE CONSTRUCTION OF THIS PROJECT.
2. ALL FEES AND PERMITS, REQUIRED FOR THIS PROJECT (FOR DEMOLITION, CONSTRUCTION, INSPECTIONS, CERTIFICATIONS, ETC.), ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THIS BUILDING IS CURRENTLY CERTIFIED AS LEED **SILVER**. ALL NEW WORK MUST COMPLY WITH THE LEED GUIDELINES TO MAINTAIN THE LEED STATUS OF THIS BUILDING. THIS INCLUDES ALL CONSTRUCTION PROCEDURES AND IMPLEMENTATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ITS SUBCONTRACTORS, AND FOR COORDINATING & FACILITATING THE WORK OF CONTRACTORS HIRED DIRECTLY BY THE OWNER.
5. THE CONTACTOR SHALL SCHEDULE AND COORDINATE ALL INSPECTIONS AND REVIEWS REQUIRED BY CODE OR ANY AUTHORITY HAVING JURISDICTION.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS. ANY DISCOVERIES OR CONCERNS, RESULTING FROM THEIR VERIFICATION WORK, ARE TO BE BROUGHT TO THE OWNER & ARCHITECT'S ATTENTION IMMEDIATELY, AND MUST BE RESOLVED, OR ACCEPTED AS IS, PRIOR TO STARTING ANY WORK.
7. IN THE EVENT THAT A DISCREPANCY, OR CONFLICT, IS IDENTIFIED IN THE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION AND CLARIFICATION. THE GREATER QUANTITY AND/OR QUALITY SHOULD ALWAYS APPLY AND WILL NOT BE ACCEPTED AS JUST CAUSE FOR ADDITIONAL COSTS AND/OR TIME FOR THE PROJECT. THE CONTRACTOR ACCEPTS THAT THE ARCHITECT'S DETERMINATION IN THESE MATTERS IS FINAL.
8. THE OWNER REQUIRES THE CONTINUOUS OPERATION OF THE EXISTING BUILDING SYSTEMS AND SERVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE, WITH THE OWNER, ANY INTERRUPTIONS OR SHUTDOWNS REQUIRED TO PERFORM OR COMPLETE THE CONSTRUCTION.
9. THE AREA(S) UNDER CONSTRUCTION, AND THOSE AREAS IMMEDIATELY ADJACENT TO CONSTRUCTION, SHALL BE KEPT CLEAN AND ORDERLY AT ALL TIMES.
10. ALL CONSTRUCTION WASTE AND DEBRIS SHALL BE REMOVED AND DISPOSED OF DAILY, IN A LEGAL MANNER. THE CONTRACTOR SHALL BE PREPARED TO PROVIDE INFORMATION, TO THE OWNER, CONFIRMING THE LEGAL DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS.
11. THE SCOPE OF WORK INCLUDES ANY DEMOLITION REQUIRED TO COMPLETE THE NEW CONSTRUCTION AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
12. ALL WORK (DEMOLITION AND NEW CONSTRUCTION) MUST COMPLY WITH THE APPLICABLE CODES, ANY SPECIFIC LOCAL MANDATES, LOCAL ZONING REQUIREMENTS, AND ANY SPECIFIC REQUIREMENTS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION.
13. IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE EXTENT OR SCOPE OF DEMOLITION, REQUIRED TO COMPLETE THE NEW CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THOSE QUESTIONS TO THE OWNER AND ARCHITECT, IN WRITING, PRIOR TO COMMENCING WORK ON THE PROJECT.
14. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA (SITE), AND ANY ASSOCIATED OR ADJACENT AREAS, AT ALL TIMES DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL PROVIDE, TO THE OWNER, THEIR PLAN & SCHEDULE FOR EXECUTING THE NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL ALSO PROVIDE THE OWNER ITS PLAN FOR ODOR AND DUST CONTROL DURING THE CONSTRUCTION PROCESS. ALL WORK SHALL BE COORDINATED WITH THE OWNER AND FOLLOW/RESPECT THEIR POLICIES AND PROCEDURES.
16. THE CONTRACTOR SHALL ERECT TEMPORARY PARTITIONS & INSTALL PROTECTION MEASURES, PROVIDING THE APPROPRIATE SEPARATION BETWEEN AREAS REMAINING OPEN & IN USE AND THOSE AREAS UNDER CONSTRUCTION, AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND THE OWNER. THESE SEPARATIONS INCLUDE BUT ARE NOT LIMITED TO: SEPARATIONS REQUIRED FOR FIRE AND SMOKE CONTROL, SEPARATIONS REQUIRED FOR SECURITY PURPOSES, SEPARATIONS REQUIRED TO MAINTAIN EGRESS PATHWAYS, SEPARATIONS FOR TEMPORARY EGRESS, SEPARATIONS NECESSARY FOR SEPARATIONS FOR DUST & ODOR CONTROL, AND SEPARATIONS REQUIRED FOR CONSTRUCTION STAGING, MATERIALS DELIVERY & CONSTRUCTION AREA ACCESS.
17. THE CONTRACTOR SHALL NOT RESTRICT ACCESSIBILITY (TO INDIVIDUALS WITH DISABILITIES) TO ANY AREA INSIDE OR OUTSIDE OF THE BUILDING, OPEN TO THE GENERAL PUBLIC AND THE FACILITY'S STAFF, DURING CONSTRUCTION. ALL TEMPORARY CONSTRUCTION MUST PROVIDE UNRESTRICTED AND SAFE ACCESS TO ALL INDIVIDUALS WITH DISABILITIES. ALL EXISTING ACCESSIBILITY MEASURES (IN TOILET ROOMS, AT DRINKING FOUNTAINS, ETC.) MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
18. THE INFORMATION SHOWN IN THESE DOCUMENTS (INCLUDING: DESCRIPTIONS ABOUT EXISTING CONDITIONS, DEMOLITION DRAWINGS, CONSTRUCTION DRAWINGS, THE SPECIFICATIONS, ETC.) HAS BEEN GENERATED USING INFORMATION PROVIDED TO THE ARCHITECT BY THE OWNER. IT SHOULD BE UNDERSTOOD THAT THE ARCHITECT (AND ITS CONSULTANTS) MAKES NO GUARANTEE AS TO THE ACCURACY OR CONSISTENCY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE EXISTING CONDITIONS AND COORDINATING THE SCOPE AND DESIGN INTENT OF THE NEW CONSTRUCTION.
19. THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE SCOPE OF CONSTRUCTION DESCRIBED IN THESE DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THE SCOPE OF MECHANICAL, ELECTRICAL & PLUMBING (MEP) CONSTRUCTION. THE CONTRACTOR SHALL ALSO FAMILIARIZE ITSELF WITH THE EXISTING MEP SYSTEMS AND COORDINATE THE INSTALLATION OF THE NEW MEP WORK WITH THE EXISTING MEP SYSTEMS.
20. ALL COSTS RELATED TO EXCESSIVE, OR UNCOORDINATED, DEMOLITION BY THE CONTRACTOR WILL BE SOLELY THEIR RESPONSIBILITY.
21. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER AND THE ARCHITECT, THE REQUIRED FIRE SEPARATIONS THAT NEED TO BE MAINTAINED DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE REQUIRED SEPARATIONS (AS STIPULATED BY CODE OR THE AUTHORITIES HAVING JURISDICTION) BE COMPROMISED OR DIMINISHED IN ANY WAY DURING CONSTRUCTION.
22. ALL REPAIRS TO DAMAGED OR MODIFIED FIREPROOFING COMPONENTS & MEASURES (SPRAY-ON FIRE PROOFING, FIRE SAFING, SEALANTS, TAPES, SPRINKLERS, ETC.), RESULTING FROM OR REQUIRED BY THE NEW CONSTRUCTION, MUST MEET OR EXCEED ALL CURRENT CODE REQUIREMENTS AND ANY DIRECTIVES FROM THE AUTHORITIES HAVING JURISDICTION. ALL EXISTING FIREPROOFING COMPONENTS MUST BE REPAIRED, OR MODIFIED, ACCORDING TO THE ORIGINAL MANUFACTURER'S REQUIREMENTS AND UL DESIGN ASSEMBLY PARAMETERS (WHERE APPLICABLE). ALL NEW COMPONENTS MUST BE COMPATIBLE WITH THE EXISTING CONSTRUCTION (CHEMICALLY, VISUALLY, ETC.). UNDER NO CIRCUMSTANCES SHALL ANY COMPONENT'S OR ASSEMBLY'S FIRE RESISTANCE, OR EXPECTED PERFORMANCE, BE REDUCED. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT IMMEDIATELY IF THERE IS ANY KNOWLEDGE OF, OR POTENTIAL FOR, A CONFLICT BETWEEN THE EXISTING CONSTRUCTION'S FIRE PROOFING (COMPONENTS & MEASURES) AND THE NEW CONSTRUCTION.
23. THE CONTRACTOR SHALL NOTIFY THE OWNER ABOUT ANY MATERIALS, IN AREAS UNDER CONSTRUCTION, THAT IT SUSPECTS CONTAIN ASBESTOS OR OTHER HAZARDOUS MATERIALS. WORK IN THE AFFECTED AREA(S) SHALL STOP UNTIL THE CONTRACTOR IS RELEASED, BY THE OWNER, TO RESUME WORK.
24. ANY ENTITY (CONTRACTOR, SPECIALIST, ETC.) PERFORMING HAZARDOUS MATERIALS ABATEMENT WORK, FOR THIS PROJECT, SHALL BE PROPERLY LICENSED AND EQUIPPED TO PERFORM THE WORK REQUIRED. PROOF OF ABILITY, CERTIFICATION, AND INSURANCE COVERAGE, FOR THE PERFORMANCE OF THESE SERVICES, SHALL BE PROVIDED TO THE OWNER PRIOR TO START OF ANY WORK. THE ENTITY RESPONSIBLE FOR REMOVING AND DISPOSING OF ABATED MATERIALS, SHALL DISPOSE OF THESE MATERIALS IN A LEGAL AND DOCUMENTED MANNER. PROOF OF LEGAL ABATEMENT SHALL BE PROVIDED TO THE OWNER WHEN THE ABATEMENT PROCESS HAS BEEN COMPLETED AND PRIOR TO ANY PAYMENT FOR THE ABATEMENT WORK.
25. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER, ALL EXISTING DATA & TELEPHONE CABLING, CONDUIT, SWITCHES, AND EQUIPMENT THAT ARE REMAINING IN PLACE, AND USE, PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL ALSO CONFIRM, WITH THE OWNER, ALL ITEMS THAT WERE REMOVED & SAVED DURING DEMOLITION THAT ARE BEING REINSTALLED.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ACCIDENTAL DISRUPTION OF DATA AND TELEPHONE SERVICES WITHIN THE BUILDING.
27. NEW PENETRATIONS IN FIRE RATED ASSEMBLIES, AND/OR FLOOR SLABS, SHALL BE SEALED IMMEDIATELY, AND MEET ALL RATING AND SEPARATION REQUIREMENTS MANDATED BY BUILDING CODES AND ANY AUTHORITY HAVING JURISDICTION.
28. THE CONTRACTOR SHALL PROTECT FROM DAMAGE, OR UNDUE WEAR, ALL EXISTING LIFE SAFETY RELATED ITEMS DURING CONSTRUCTION. THESE INCLUDE: EXISTING SMOKE DETECTORS, EXISTING PUBLIC ADDRESS SPEAKERS, EXISTING FIRE ALARM BOXES, EXISTING STROBES, AND ALL OF THE ASSOCIATED WIRING.
29. COSTS FOR REINSTALLATION, RELOCATION, AND REFURBISHMENT, OF SMOKE DETECTORS, PUBLIC ADDRESS SPEAKERS AND FIRE ALARM RELATED EQUIPMENT, NECESSITATED BY THE NEW CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE, WITH THE OWNER, ANY REQUIRED MODIFICATIONS, ADDITIONS OR ADJUSTMENTS TO THE EXISTING FIRE ALARM SYSTEM.
30. EXISTING SPRINKLER HEADS AND ASSOCIATED PIPE & CONTROLS, WITHIN THE SPACE, SHALL BE PROTECTED FROM ANY POTENTIAL DAMAGE. ALL OF THE HEADS SHALL REMAIN ACTIVE AT ALL TIMES AND PROVIDE THE REQUIRED FIRE PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM WITH THE AUTHORITIES HAVING JURISDICTION (FIRE MARSHAL, CITY, ETC.) ANY REQUIREMENTS THAT APPLY THIS PROJECT.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND RELOCATING THE SPRINKLER HEADS, AS REQUIRED, TO INSURE THE PROPER SPACING OF HEADS AND SPRINKLER SYSTEM COVERAGE WITHIN THE SPACE. SEE PLUMBING DRAWINGS & SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.
32. EXISTING SURFACES, WITH FINISHES THAT HAVE BEEN REMOVED, SHALL BE APPROPRIATELY PREPPED FOR THE INSTALLATION OF NEW FINISHES.
33. THIS BUILDING WAS CERTIFIED LEED SILVER FOR OPERATIONS + MAINTENANCE: EXISTING BUILDINGS v3.0 IN JULY OF 2019. AS PART OF RECERTIFICATION, THIS BUILDING IS USING THE LEED ARC PLATFORM TO MEASURE ITS IMPACT ACROSS FIVE CATEGORIES.

NOTE: THE ITEMS ABOVE MAY NOT ALL APPLY TO THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE PROJECT'S SCOPE (FOR BOTH THE NEW CONSTRUCTION AND ANY REQUIRED DEMOLITION) AND FOR RESPECTING & FOLLOWING THESE DIRECTIONS AS THEY APPLY TO THE PROJECT.

KEY PLAN - LEVEL 1



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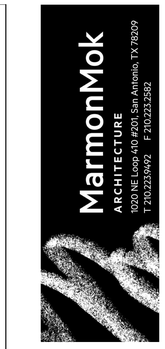


CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

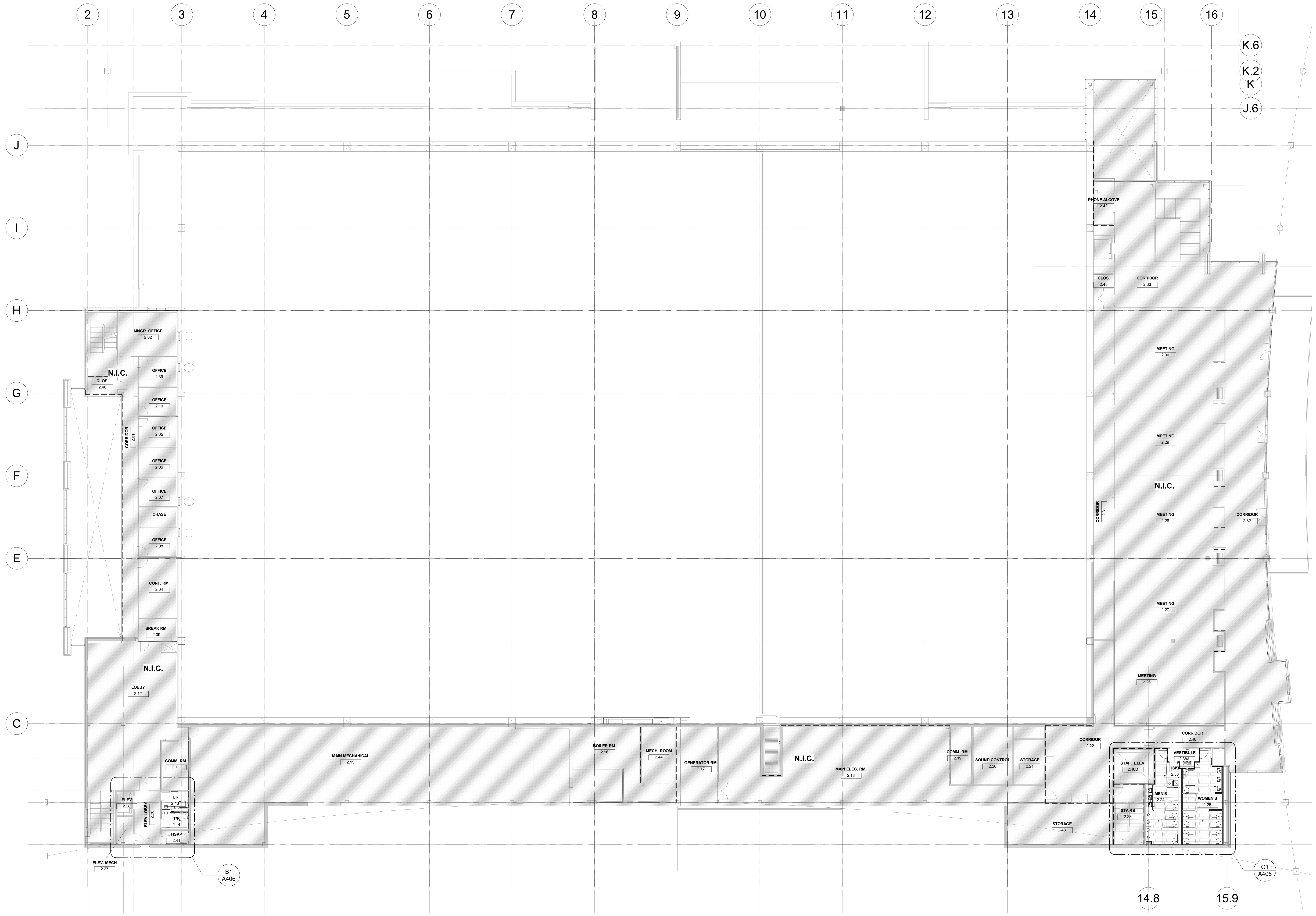
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE

LEVEL 1 OVERALL FLOOR PLAN

SHEET NO.

A101

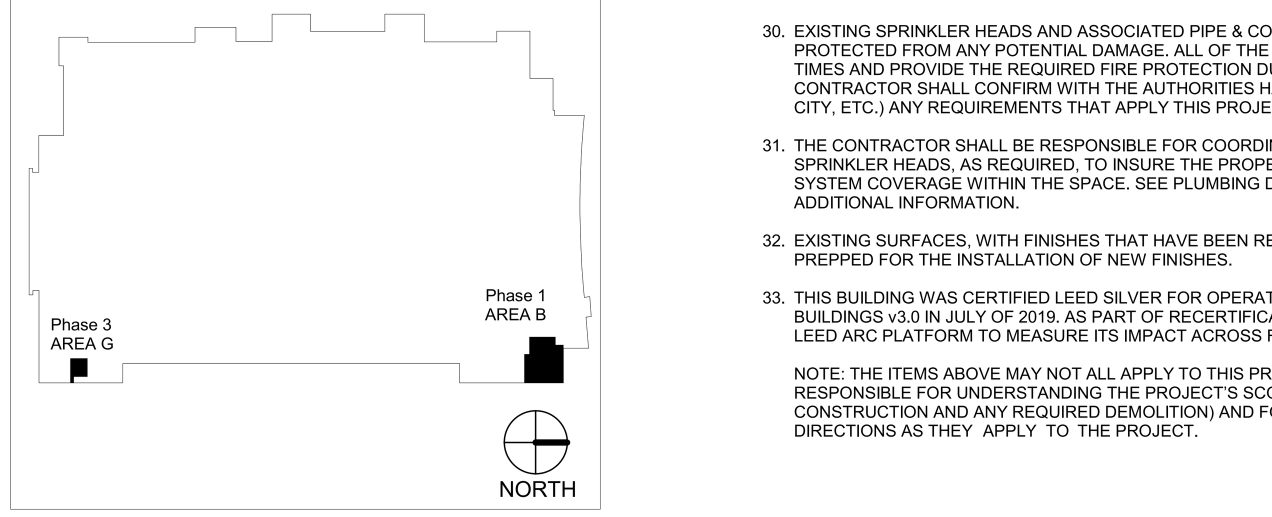


D1 A102 LEVEL 2 - OVERALL FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



GENERAL NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE FOR DELIVERING THE PROJECT IN ACCORDANCE WITH THE DESIGN DESCRIBED IN THE DRAWINGS & SPECIFICATIONS, AND FOR ALL MEANS & METHODS RELATED TO, AND REQUIRED FOR, THE CONSTRUCTION OF THIS PROJECT.
2. ALL FEES AND PERMITS, REQUIRED FOR THIS PROJECT (FOR DEMOLITION, CONSTRUCTION, INSPECTIONS, CERTIFICATIONS, ETC.), ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. THIS BUILDING IS CURRENTLY CERTIFIED AS LEED **SILVER**. ALL NEW WORK MUST COMPLY WITH THE LEED GUIDELINES TO MAINTAIN THE LEED STATUS OF THIS BUILDING. THIS INCLUDES ALL CONSTRUCTION PROCEDURES AND IMPLEMENTATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ITS SUBCONTRACTORS, AND FOR COORDINATING & FACILITATING THE WORK OF CONTRACTORS HIRED DIRECTLY BY THE OWNER.
5. THE CONTACTOR SHALL SCHEDULE AND COORDINATE ALL INSPECTIONS AND REVIEWS REQUIRED BY CODE OR ANY AUTHORITY HAVING JURISDICTION.
6. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS. ANY DISCOVERIES OR CONCERNS, RESULTING FROM THEIR VERIFICATION WORK, ARE TO BE BROUGHT TO THE OWNER & ARCHITECT'S ATTENTION IMMEDIATELY, AND MUST BE RESOLVED, OR ACCEPTED AS IS, PRIOR TO STARTING ANY WORK.
7. IN THE EVENT THAT A DISCREPANCY, OR CONFLICT, IS IDENTIFIED IN THE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY FOR DIRECTION AND CLARIFICATION. THE GREATER QUANTITY AND/OR QUALITY SHOULD ALWAYS APPLY AND WILL NOT BE ACCEPTED AS JUST CAUSE FOR ADDITIONAL COSTS AND/OR TIME FOR THE PROJECT. THE CONTRACTOR ACCEPTS THAT THE ARCHITECT'S DETERMINATION IN THESE MATTERS IS FINAL.
8. THE OWNER REQUIRES THE CONTINUOUS OPERATION OF THE EXISTING BUILDING SYSTEMS AND SERVICES DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE AND COORDINATE, WITH THE OWNER, ANY INTERRUPTIONS OR SHUTDOWNS REQUIRED TO PERFORM OR COMPLETE THE CONSTRUCTION.
9. THE AREA(S) UNDER CONSTRUCTION, AND THOSE AREAS IMMEDIATELY ADJACENT TO CONSTRUCTION, SHALL BE KEPT CLEAN AND ORDERLY AT ALL TIMES.
10. ALL CONSTRUCTION WASTE AND DEBRIS SHALL BE REMOVED AND DISPOSED OF DAILY, IN A LEGAL MANNER. THE CONTRACTOR SHALL BE PREPARED TO PROVIDE INFORMATION, TO THE OWNER, CONFIRMING THE LEGAL DISPOSAL OF CONSTRUCTION WASTE AND DEBRIS.
11. THE SCOPE OF WORK INCLUDES ANY DEMOLITION REQUIRED TO COMPLETE THE NEW CONSTRUCTION AS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.
12. ALL WORK (DEMOLITION AND NEW CONSTRUCTION) MUST COMPLY WITH THE APPLICABLE CODES, ANY SPECIFIC LOCAL MANDATES, LOCAL ZONING REQUIREMENTS, AND ANY SPECIFIC REQUIREMENTS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION.
13. IF THE CONTRACTOR HAS ANY QUESTIONS ABOUT THE EXTENT OR SCOPE OF DEMOLITION, REQUIRED TO COMPLETE THE NEW CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THOSE QUESTIONS TO THE OWNER AND ARCHITECT, IN WRITING, PRIOR TO COMMENCING WORK ON THE PROJECT.
14. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA (SITE), AND ANY ASSOCIATED OR ADJACENT AREAS, AT ALL TIMES DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL PROVIDE, TO THE OWNER, THEIR PLAN & SCHEDULE FOR EXECUTING THE NEW CONSTRUCTION WORK. THE CONTRACTOR SHALL ALSO PROVIDE THE OWNER ITS PLAN FOR ODOR AND DUST CONTROL DURING THE CONSTRUCTION PROCESS. ALL WORK SHALL BE COORDINATED WITH THE OWNER AND FOLLOW/RESPECT THEIR POLICIES AND PROCEDURES.
16. THE CONTRACTOR SHALL ERECT TEMPORARY PARTITIONS & INSTALL PROTECTION MEASURES, PROVIDING THE APPROPRIATE SEPARATION BETWEEN AREAS REMAINING OPEN & IN USE AND THOSE AREAS UNDER CONSTRUCTION, AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND THE OWNER. THESE SEPARATIONS INCLUDE BUT ARE NOT LIMITED TO: SEPARATIONS REQUIRED FOR FIRE AND SMOKE CONTROL, SEPARATIONS REQUIRED FOR SECURITY PURPOSES, SEPARATIONS REQUIRED TO MAINTAIN EGRESS PATHWAYS, SEPARATIONS FOR TEMPORARY EGRESS, SEPARATIONS NECESSARY FOR SEPARATIONS FOR DUST & ODOR CONTROL, AND SEPARATIONS REQUIRED FOR CONSTRUCTION STAGING, MATERIALS DELIVERY & CONSTRUCTION AREA ACCESS.
17. THE CONTRACTOR SHALL NOT RESTRICT ACCESSIBILITY (TO INDIVIDUALS WITH DISABILITIES) TO ANY AREA INSIDE OR OUTSIDE OF THE BUILDING, OPEN TO THE GENERAL PUBLIC AND THE FACILITY'S STAFF, DURING CONSTRUCTION. ALL TEMPORARY CONSTRUCTION MUST PROVIDE UNRESTRICTED AND SAFE ACCESS TO ALL INDIVIDUALS WITH DISABILITIES. ALL EXISTING ACCESSIBILITY MEASURES (IN TOILET ROOMS, AT DRINKING FOUNTAINS, ETC.) MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
18. THE INFORMATION SHOWN IN THESE DOCUMENTS (INCLUDING: DESCRIPTIONS ABOUT EXISTING CONDITIONS, DEMOLITION DRAWINGS, CONSTRUCTION DRAWINGS, THE SPECIFICATIONS, ETC.) HAS BEEN GENERATED USING INFORMATION PROVIDED TO THE ARCHITECT BY THE OWNER. IT SHOULD BE UNDERSTOOD THAT THE ARCHITECT (AND ITS CONSULTANTS) MAKES NO GUARANTEE AS TO THE ACCURACY OR CONSISTENCY OF THE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF THE EXISTING CONDITIONS AND COORDINATING THE SCOPE AND DESIGN INTENT OF THE NEW CONSTRUCTION.
19. THE CONTRACTOR SHALL FAMILIARIZE ITSELF WITH THE SCOPE OF CONSTRUCTION DESCRIBED IN THESE DOCUMENTS INCLUDING, BUT NOT LIMITED TO, THE SCOPE OF MECHANICAL, ELECTRICAL & PLUMBING (MEP) CONSTRUCTION. THE CONTRACTOR SHALL ALSO FAMILIARIZE ITSELF WITH THE EXISTING MEP SYSTEMS AND COORDINATE THE INSTALLATION OF THE NEW MEP WORK WITH THE EXISTING MEP SYSTEMS.
20. ALL COSTS RELATED TO EXCESSIVE, OR UNCOORDINATED, DEMOLITION BY THE CONTRACTOR WILL BE SOLELY THEIR RESPONSIBILITY.
21. THE CONTRACTOR SHALL CONFIRM, WITH THE OWNER AND THE ARCHITECT, THE REQUIRED FIRE SEPARATIONS THAT NEED TO BE MAINTAINED DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL THE REQUIRED SEPARATIONS (AS STIPULATED BY CODE OR THE AUTHORITIES HAVING JURISDICTION) BE COMPROMISED OR DIMINISHED IN ANY WAY DURING CONSTRUCTION.
22. ALL REPAIRS TO DAMAGED OR MODIFIED FIREPROOFING COMPONENTS & MEASURES (SPRAY-ON FIRE PROOFING, FIRE SAFING, SEALANTS, TAPES, SPRINKLERS, ETC.), RESULTING FROM OR REQUIRED BY THE NEW CONSTRUCTION, MUST MEET OR EXCEED ALL CURRENT CODE REQUIREMENTS AND ANY DIRECTIVES FROM THE AUTHORITIES HAVING JURISDICTION. ALL EXISTING FIREPROOFING COMPONENTS MUST BE REPAIRED, OR MODIFIED, ACCORDING TO THE ORIGINAL MANUFACTURER'S REQUIREMENTS AND UL DESIGN ASSEMBLY PARAMETERS (WHERE APPLICABLE). ALL NEW COMPONENTS MUST BE COMPATIBLE WITH THE EXISTING CONSTRUCTION (CHEMICALLY, VISUALLY, ETC.). UNDER NO CIRCUMSTANCES SHALL ANY COMPONENT'S OR ASSEMBLY'S FIRE RESISTANCE, OR EXPECTED PERFORMANCE, BE REDUCED. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE ARCHITECT IMMEDIATELY IF THERE IS ANY KNOWLEDGE OF, OR POTENTIAL FOR, A CONFLICT BETWEEN THE EXISTING CONSTRUCTION'S FIRE PROOFING (COMPONENTS & MEASURES) AND THE NEW CONSTRUCTION.
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24. ANY ENTITY (CONTRACTOR, SPECIALIST, ETC.) PERFORMING HAZARDOUS MATERIALS ABATEMENT WORK, FOR THIS PROJECT, SHALL BE PROPERLY LICENSED AND EQUIPPED TO PERFORM THE WORK REQUIRED. PROOF OF ABILITY, CERTIFICATION, AND INSURANCE COVERAGE, FOR THE PERFORMANCE OF THESE SERVICES, SHALL BE PROVIDED TO THE OWNER PRIOR TO START OF ANY WORK. THE ENTITY RESPONSIBLE FOR REMOVING AND DISPOSING OF ABATED MATERIALS, SHALL DISPOSE OF THESE MATERIALS IN A LEGAL AND DOCUMENTED MANNER. PROOF OF LEGAL ABATEMENT SHALL BE PROVIDED TO THE OWNER WHEN THE ABATEMENT PROCESS HAS BEEN COMPLETED AND PRIOR TO ANY PAYMENT FOR THE ABATEMENT WORK.
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30. EXISTING SPRINKLER HEADS AND ASSOCIATED PIPE & CONTROLS, WITHIN THE SPACE, SHALL BE PROTECTED FROM ANY POTENTIAL DAMAGE. ALL OF THE HEADS SHALL REMAIN ACTIVE AT ALL TIMES AND PROVIDE THE REQUIRED FIRE PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM WITH THE AUTHORITIES HAVING JURISDICTION (FIRE MARSHAL, CITY, ETC.) ANY REQUIREMENTS THAT APPLY THIS PROJECT.
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REGISTERED ARCHITECT BRIANT A. HARKIEWICZ 13280 STATE OF TEXAS

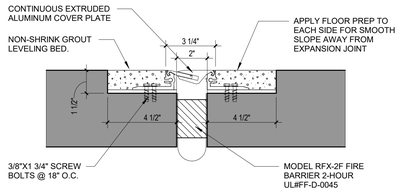
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

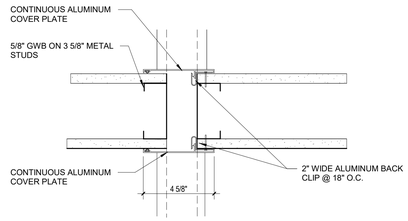
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 2 OVERALL FLOOR PLAN

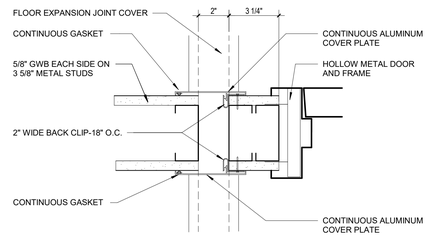
SHEET NO.
A102



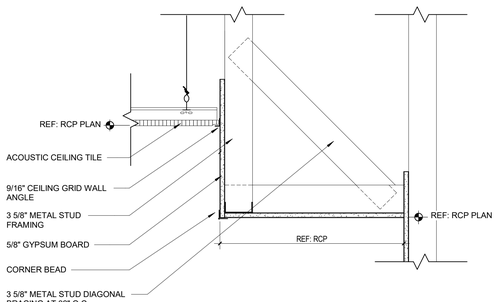
A1 A105 FLOOR TO FLOOR EXP. JT.
3" = 1'-0"



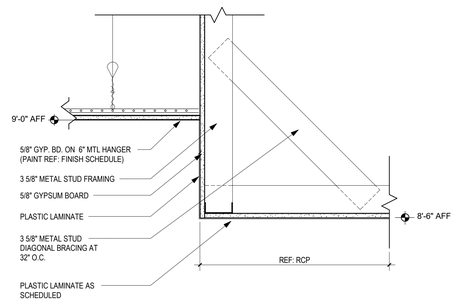
A2 A105 WALL TO WALL EXP.JT-5
3" = 1'-0"



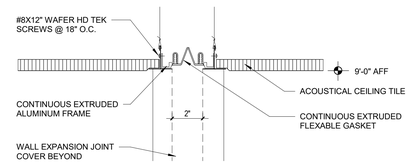
A4 A105 WALL EXP.JT. @ DR. FRAME
3" = 1'-0"



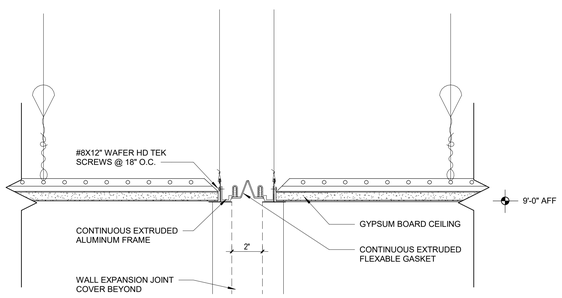
B1 A105 TYP. GYPSUM BOARD FURR DOWN @ ACT
1 1/2" = 1'-0"



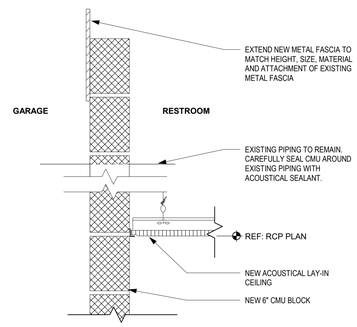
B2 A105 TYP. GYPSUM BOARD FURR DOWN @ GYP
1 1/2" = 1'-0"



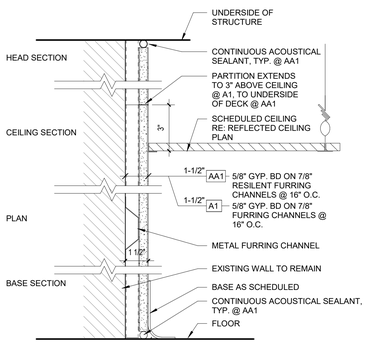
B4 A105 EXPANSION JOINT AT ACOUSTICAL CEILING TILE
3" = 1'-0"



D1 A105 EXPANSION JOINT AT GYPSUM BOARD CEILINGS
3" = 1'-0"

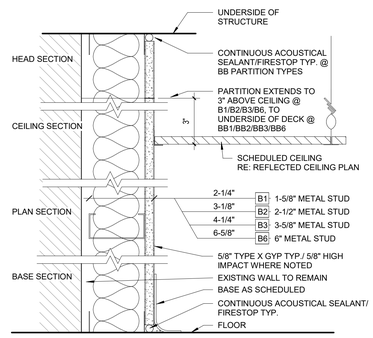


D2 A105 GARAGE FASCIA
1 1/2" = 1'-0"



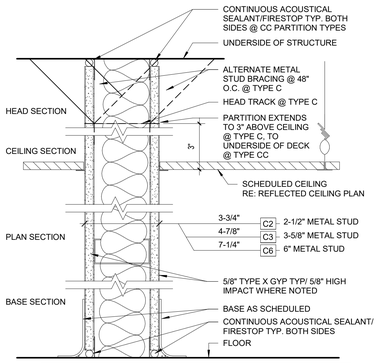
A - AA	20 GA. HAT CHANNELS @ 16" O.C. WITH 1 LAYER 5/8" GYP.				
PARTITION TYPE	L/240 LIMITING HEIGHT		FIRE RATING		STC
	STUD DEPTH	MAX. HEIGHT	HOURS	UL LISTING	
A1 - AA1	7/8"	15'-4"	-	-	-

E1 A105 PARTITION TYPE A - AA
3" = 1'-0"



B - BB	20 GA. METAL STUD @ 16" O.C. WITH 1 LAYER 5/8" GYP. AND ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT				
PARTITION TYPE	L/240 LIMITING HEIGHT		FIRE RATING		STC
	STUD DEPTH	MAX. HEIGHT	HOURS	UL LISTING	
B1	1-5/8"	15'-4"	-	-	-
B2	2-1/2"	15'-4"	-	-	-
B3	3-5/8"	15'-4"	-	-	44
B6	6"	15'-4"	-	-	56

E2 A105 PARTITION TYPE B-BB
3" = 1'-0"



C - CC	20 GA. METAL STUD @ 16" O.C. WITH 1 LAYER 5/8" GYP. EACH SIDE AND ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT				
PARTITION TYPE	L/240 LIMITING HEIGHT		R SUFFIX = FIRE RATED		STC/TEST
	STUD DEPTH	MAX. HEIGHT	HOURS	UL LISTING	
C2 - CC2	2-1/2"	15'-4"	1HR	CEG 8-11-83 CEG 5-9-84	45/RAL-TL-69-42
C3 - CC3	3-5/8"	15'-4"	1HR	U419/U451	52/RAL-TL-11-080
C6 - CC6	6"	15'-4"	1HR	U419/U451	56/RAL-TL-84-141

E4 A105 PARTITION TYPE C-CC
3" = 1'-0"

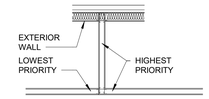
PLAN DESIGNATION SYMBOLS

X3 — SINGLE LETTER PARTITION TYPES EXTEND TO 3" ABOVE CEILING. NUMBER INDICATES NOMINAL STUD WIDTH

XX3 — DOUBLE LETTER PARTITION TYPES EXTEND TO BOTTOM OF STRUCTURE. NUMBER INDICATES NOMINAL STUD WIDTH

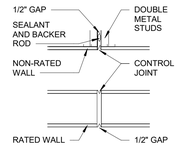
X3-X — LETTER SUFFIX DESIGNATION AS NOTED
- F FOAM FILLED
- HI HIGH IMPACT
- C CAP
- A ACOUSTIC
- R RATED

WALL PRIORITY LEGEND



2 HOUR FIRE & SMOKE WALL	PRIORITY 1 (HIGH)
2 HOUR FIRE WALL	PRIORITY 2
2 HOUR SHAFT WALL	PRIORITY 2
1 HOUR FIRE / SHAFT WALL	PRIORITY 3
1 HOUR FIRE WALL	PRIORITY 4
1 HOUR SHAFT WALL	PRIORITY 4
NON - RATED WALL	PRIORITY 5 (LOW)

GYP. BOARD CONTROL JOINTS



30'-0" MAX. BETWEEN CONTROL JOINTS

REFER TO PARTITION TYPES FO COMPLETE DESCRIPTION OF COMPONENT PARTS

REFER TO WARNOCK HERSEY REPORT NO. WH-E (651 -310)

RATED WALL LEGEND

- 1 HOUR
- 2 HOUR
- 3 HOUR
- SMOKE

PARTITION TYPES - GENERAL NOTES

1. ALL NEW PARTITIONS ARE TO BE ONE OF THE TYPES SHOWN ON THIS SHEET. IF A NEW PARTITION IS NOT TAGGED, THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR DIRECTION ABOUT ITS CONSTRUCTION.
2. UNLESS OTHERWISE NOTED, ALL PARTITIONS SHALL SPAN FROM THE FLOOR TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE.
3. ALL PARTITIONS SHALL BE SECURELY FRAMED UP TO, AND AROUND, ANY STRUCTURAL FRAMING (BEAMS, COLUMNS, ETC.) AND/OR ANY NON-STRUCTURAL OBSTRUCTIONS (PIPING, DUCT WORK, ETC.).
4. WHEN RATED PARTITIONS TERMINATE AT, OR ABUT, RATED BUILDING STRUCTURAL COMPONENTS (FIREPROOFED BEAMS, COLUMNS, FLOOR DECK, ETC.), THE PARTITION'S RATINGS SHALL MATCH THAT OF THE RATED STRUCTURAL COMPONENTS THAT THEY ARE ABUTTING.
5. A DEFLECTION HEAD SHALL BE INSTALLED AT THE TOP OF ALL METAL STUD PARTITIONS EXTENDING TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK OR STRUCTURE ABOVE.
6. ALL GYPSUM BOARD PARTITIONS NOT EXTENDING TO STRUCTURE SHALL BE BRACED AS REQUIRED TO MEET ASTM C754.
7. SEE PLANS, REFLECTED CEILING PLANS (RCP's), & INTERIOR ELEVATIONS FOR INTERIOR FINISHES AND CEILING HEIGHTS.
8. ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" UNLESS OTHERWISE NOTED.
9. MISCELLANEOUS FURRING AROUND COLUMNS SHALL BE 5/8" GYPSUM BOARD OVER 3-5/8" METAL STUDS UNLESS OTHERWISE NOTED OR DETAILED.
10. NON-RATED CHASES SHALL BE 5/8" GYPSUM BOARD OVER 3-5/8" METAL STUDS, UNLESS OTHERWISE NOTED OR DETAILED.
11. UL DESIGN NUMBERS REFER TO THOSE IN THE UL FIRE RESISTANCE DIRECTORY, LATEST EDITION.
12. ALL PENETRATIONS IN RATED PARTITIONS SHALL BE APPROPRIATELY TAPED AND/OR SEALED.
13. RATED PARTITIONS SHALL BE SEALED TIGHT TO THE UNDERSIDE OF THE DECK ABOVE AND PACKED WITH FIRE SAFING INSULATION. GYPSUM WALL BOARD SHALL BE COPED AROUND METAL DECKING FLUTES, CONCRETE PANS AND/OR AROUND ANY ABUTTING STRUCTURE.
14. INSTALL FIRESTOPPING SEALANT AT ALL HEADS, SILLS, JUNCTURES WITH DISSIMILAR MATERIALS, AND AROUND ALL PENETRATIONS AND OPENINGS IN FIRE RATED PARTITIONS.
15. UN-RATED PARTITIONS SHALL BE SEALED TIGHT TO THE UNDERSIDE OF THE DECK ABOVE. GYPSUM WALL BOARD SHALL BE COPED AROUND METAL DECKING FLUTES, CONCRETE PANS AND/OR AROUND ANY ABUTTING STRUCTURE.
16. SOUND ATTENUATION BATTS SHALL EXTEND THE FULL HEIGHT OF ACOUSTICALLY RATED PARTITIONS.
17. SOUND ATTENUATION BATT THICKNESSES SHALL BE AS FOLLOWS. WHERE METAL STUDS 2 ½" THICK OR LESS ARE USED, INSTALL 1 ½" THICK BATTS. WHEN METAL STUDS 3 5/8" OR GREATER ARE USED, INSTALL 3" THICK BATTS.
18. APPLY ACOUSTICAL SEALANT AT ALL JOINTS AND/OR CRACKS AROUND SOUND RATED PARTITIONS INCLUDING: AT FLOOR EDGES, CEILINGS, CONNECTIONS TO EXISITNG CONSTRUCTION, JUNCTION BOXES, ETC.
19. SHAFT WALL PARTITIONS SHALL BE 2-HOUR RATED, EXTEND FROM THE FLOOR TO THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE, AND BE SAFED & SEALED (TOP, BOTTOM AND SIDES) TO MAINTAIN THE 2-HOUR RATING AROUND THE ENCLOSED VOLUME (HOISTWAY, SHAFT, ETC.).
20. AT CMU PARTITIONS, PROVIDE BRACING AT 8'-0" (OC) TYPICAL, AT ALL ENDS, AND AT EACH SIDE OF A CONTROL JOINT. IF AN INTERSECTING CMU PARTITION IS LAYED AT THE SAME TIME, THE INTERSECTING PARTITION WILL BE CONSIDERED A BRACE.

NOTE: THE ITEMS ABOVE MAY NOT ALL APPLY TO THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNDERSTANDING THE PROJECT'S SCOPE AND FOR RESPECTING & FOLLOWING THESE DIRECTIONS AS THEY APPLY TO THE PROJECT.

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6/6/2022

CITY OF AUSTIN
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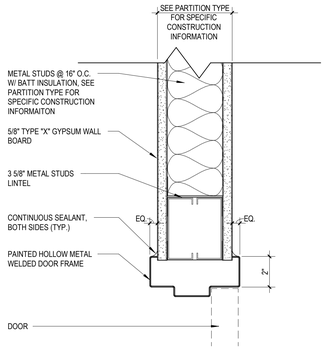
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

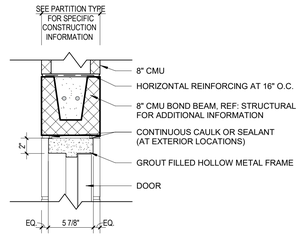
SHEET TITLE
PARTITION TYPES, PLAN & CEILING DETAILS

SHEET NO.
A105



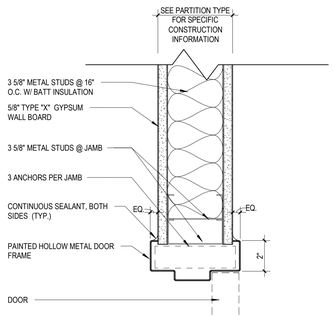
A1 / A201 HEAD DETAIL - HOLLOW METAL DOOR FRAME - METAL STUD PARTITION

3" = 1'-0"



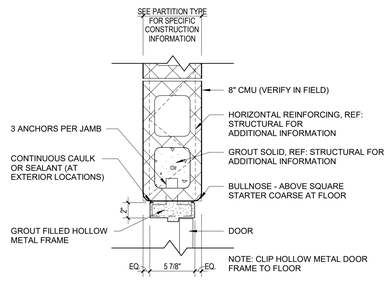
A2 / A201 HEAD DETAIL - HOLLOW METAL DOOR FRAME - CMU PARTITION

1 1/2" = 1'-0"



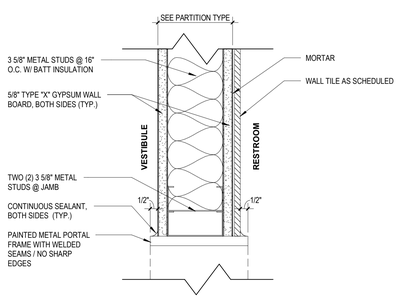
C1 / A201 JAMB DETAIL - HOLLOW METAL DOOR FRAME - METAL STUD PARTITION

3" = 1'-0"



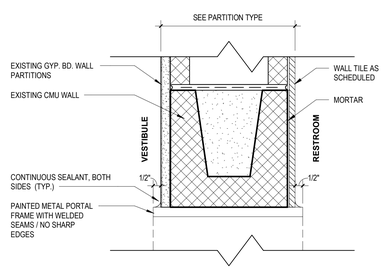
C2 / A201 JAMB DETAIL - HOLLOW METAL DOOR FRAME - CMU PARTITION

1 1/2" = 1'-0"



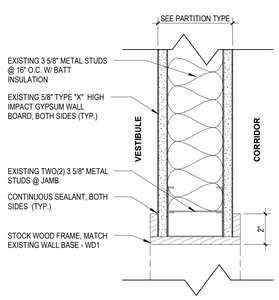
D1 / A201 PORTAL - METAL FRAME

3" = 1'-0"



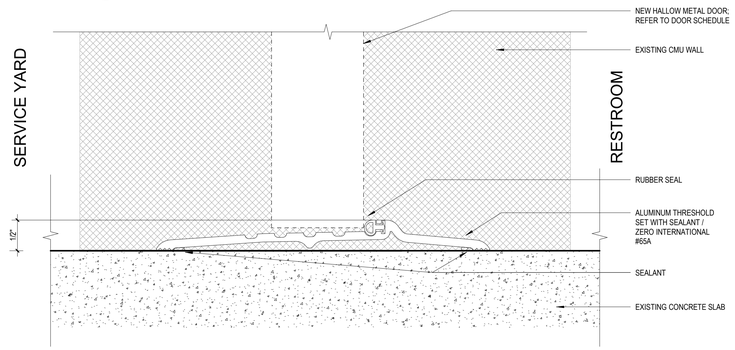
D2 / A201 PORTAL - METAL FRAME (2)

3" = 1'-0"



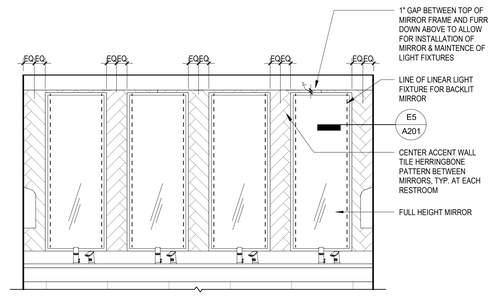
E1 / A201 PORTAL - WOOD FRAME

3" = 1'-0"



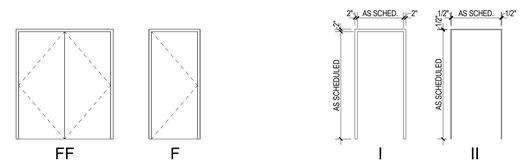
E2 / A201 EXTERIOR DOOR SILL DETAIL

12" = 1'-0"

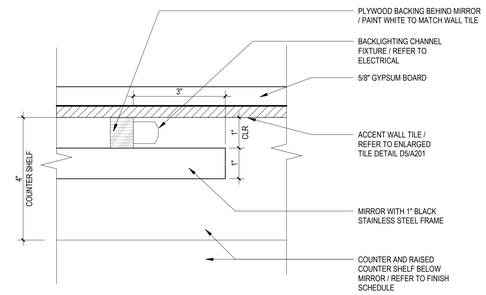


E4 / A201 ENARGLED TILE AT LAVATORY AREA

1/2" = 1'-0"



DOOR TYPES **FRAME TYPES**



E5 / A201 MIRROR BACKLIGHTING DETAIL

6" = 1'-0"

DOOR SCHEDULE

DOOR NO.	NEW/EXISTING	FIRE RATING	DOOR TYPE		DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME HEAD THICKNESS	FRAME THROAT	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARWARE	Comments
1.08	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
1.09	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
1.11	NEW	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341A	DOOR FINISH TO MATCH EXISTING
1.12	NEW	NR	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A-341	DOOR FINISH TO MATCH EXISTING / WALL MOUNTED DOOR HANDLE BUMPER
1.12A	NEW	NR	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A-341	DOOR FINISH TO MATCH EXISTING
1.12B	NEW	NR	I		2' - 8"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A-341	DOOR FINISH TO MATCH EXISTING
1.12C	NEW	NR	I		2' - 8"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A-341	DOOR FINISH TO MATCH EXISTING
1.13	EXISTING TO REMAIN	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	EXISTING - HM	PT6	-	-	-	A341MH	REFINISH EXISTING DOOR / WALL MOUNTED DOOR HANDLE BUMPER
1.21	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
1.22	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
1.28	EXIST/REINSTALLED	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	343S-EX	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR/ NEW FRAME / PROVIDE RUBBER GASKETING AROUND DOOR / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES
1.29	EXIST/REINSTALLED	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	343S-EX	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR/ NEW FRAME / PROVIDE RUBBER GASKETING AROUND DOOR / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES
1.30	EXISTING TO REMAIN	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	HM	EXTR	I	0' - 2"	0' - 5 7/8"	EXISTING - HM	MATCH EXST	-	-	-	001	EXISTING TO REMAIN / PROVIDE WALL MOUNTED DOOR HANDLE BUMPER
1.31	EXISTING TO REMAIN	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	HM	EXTR	I	0' - 2"	0' - 5 7/8"	EXISTING - HM	MATCH EXST	-	-	-	001	EXISTING TO REMAIN / PROVIDE WALL MOUNTED DOOR HANDLE BUMPER
1.31A	NEW	NR	FF		5' - 4"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	100	PROVIDE RUBBER GASKETING AROUND DOORS. DOORS TO OPEN 180 DEGREE SWING
1.42	NEW	NR	F		3' - 0"	8' - 0"	0' - 1 3/4"	-	-	II	0' - 0 1/2"	0' - 4 7/8"	NEW - HM	PT6	D1/A201	D1/A201	-	-	CASED OPENING – FRAME ONLY
1.42A	NEW	NR	OPEN		3' - 6"	8' - 0"		-	-	II	0' - 0 1/2"	0' - 4 7/8"	NEW - HM	PT6	D1/A201	D1/A201	-	-	CASED OPENING – FRAME ONLY
1.43	NEW	NR	OPEN		3' - 6"	8' - 0"		-	-	II	0' - 0 1/2"	0' - 4 7/8"	NEW - HM	PT6	D1/A201	D1/A201	-	-	CASED OPENING – FRAME ONLY
1.44	NEW	2 HR	F		3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT6	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A2/A201	C2/A201	D4/A201	A105	NEW EXTERIOR DOOR / WEATHERPROOFING RUBBER GASKETING AROUND DOOR, DOOR SHALL BE WEATHER TIGHT / WALL MOUNTED DOOR HANDLE BUMPER
1.51A	NEW	NR	OPEN		5' - 8"	8' - 0"		-	-	II	0' - 0 1/2"	0' - 4 7/8"	NEW - HM	PT6	D1/A201	D1/A201	-	-	CASED OPENING – FRAME ONLY
1.51B	NEW	NR	FF		6' - 0"	7' - 10"	0' - 1 3/4"	HM	PT6	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	210R	DOORS TO OPEN 180 DEGREE SWING
1.55	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
1.58	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
2.13	EXISTING TO REMAIN	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	EXISTING - HM	MATCH EXST	-	-	-	001	EXISTING DOOR AND FRAME TO REMAIN / WALL MOUNTED DOOR HANDLE BUMPER
2.14	EXISTING TO REMAIN	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	EXISTING - HM	MATCH EXST	-	-	-	001	EXISTING DOOR AND FRAME TO REMAIN / WALL MOUNTED DOOR HANDLE BUMPER
2.24	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
2.25	EXIST/REINSTALLED	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	A341MH	REINSTALL EXISTING DOOR PRESERVED DURING DEMOLITION, REFINISH DOOR / NEW FRAME / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / WALL MOUNTED DOOR HANDLE BUMPER
2.38	NEW	20 MIN.	F		3' - 0"	8' - 0"	0' - 1 3/4"	WOOD	CLEAR POLY.	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A1/A201	C1/A201	-	201C	DOOR FINISH TO MATCH EXISTING / AVOID PAINTING OVER FIRE LABEL FOR RATED FRAMES / PROVIDE KICKPLATE
2.38A	NEW	NR	OPEN		4' - 9 1/2"	8' - 0"		-	-	II	0' - 2"	0' - 5 7/8"	WOOD	WD1	E1/A201	E1/A201	-	-	CASED OPENING - MATCH EXISTING DOOR FINISH
G1.04	NEW	NR	F		3' - 0"	7' - 0"	0' - 1 3/4"	HM	PT6	I	0' - 2"	0' - 5 7/8"	NEW - HM	PT6	A2/A201	C2/A201	D4/A201	345	NEW EXTERIOR DOOR / WEATHERPROOFING RUBBER GASKETING AROUND DOOR, DOOR SHALL BE WEATHER TIGHT / VERIFY HEIGHT OF DOOR MATCHES EXSTING ADJACENT DOOR

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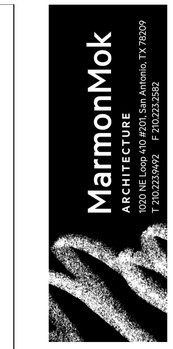

CITY OF AUSTIN
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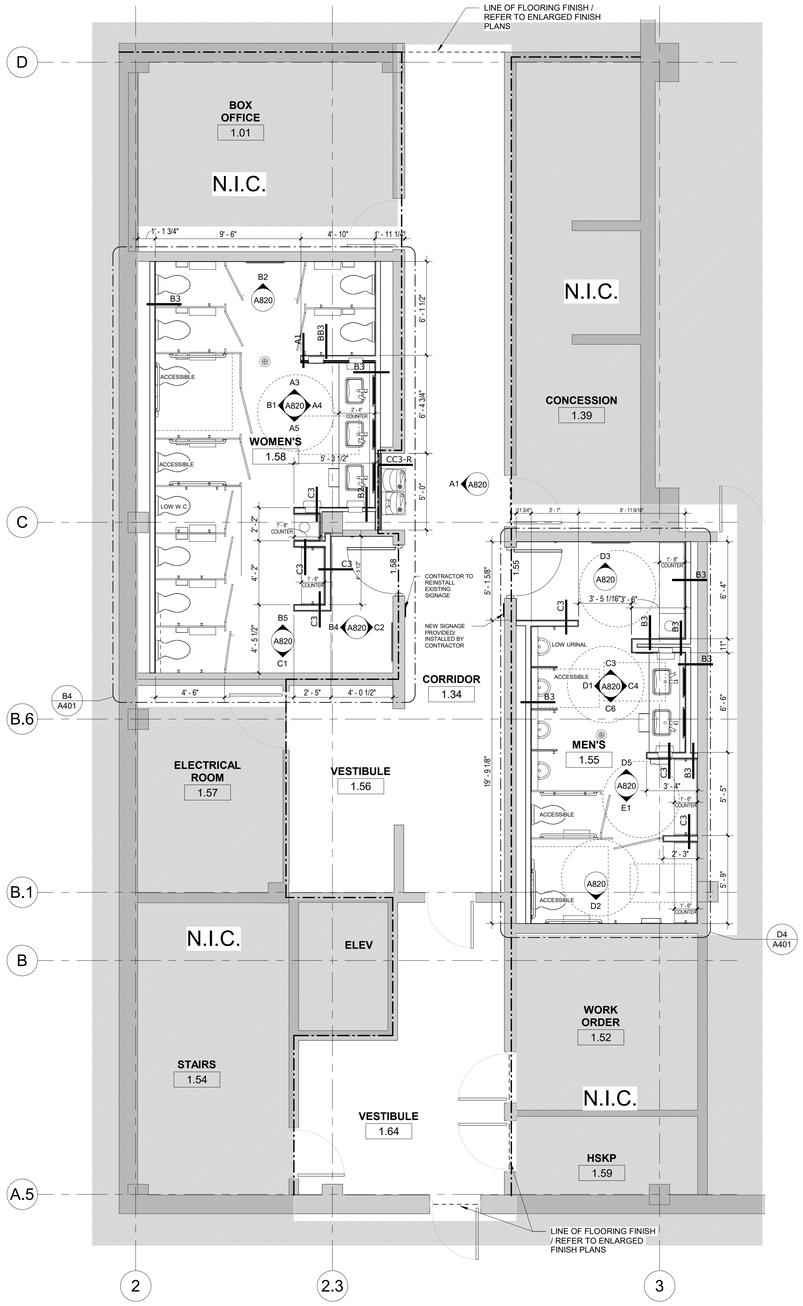
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
DOOR SCHEDULE & DETAILS

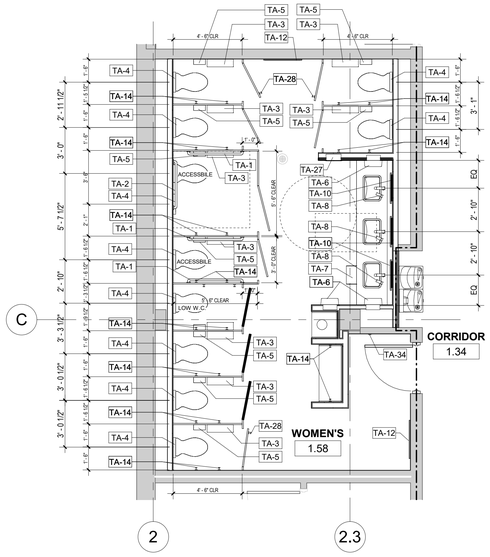
SHEET NO.
A201



D1 A401 LEVEL 1: ENLARGED FLOOR PLAN - SOUTH RESTROOMS

1/4" = 1'-0"

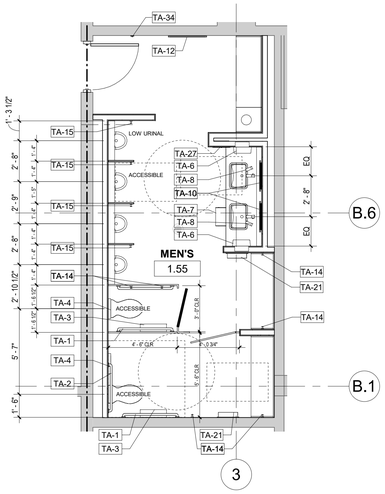
NORTH PLAN N.



B4 A401 WOMEN'S ENARGED FIXTURE PLAN (1.58)

1/4" = 1'-0"

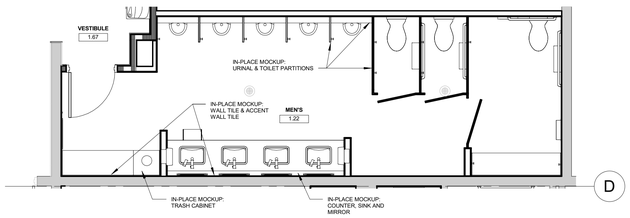
NORTH PLAN N.



D4 A401 MEN'S ENLARGED FIXTURE PLAN (1.55)

1/4" = 1'-0"

NORTH PLAN N.



E1 A401 LEVEL 1 - ENLARGED MOCKUP PLAN (MEN'S RESTROOM 1.22)

1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
2. SEE SHEET I103 FOR TYPICAL MOUNTING HEIGHTS AND TOILET ACCESSORY SCHEDULE .
3. SEE COVER SHEET FOR SYMBOL LEGEND AND ABBREVIATIONS.
4. SEE SHEET A900 SERIES FOR FINISHES AND FLOOR PATTERNS.
5. EXISTING RESTROOM SIGNAGE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. EXISTING SIGNAGE TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND SALVAGED BY CONTRACTOR DURING CONSTRUCTION AND REINSTALLED AS INDICATED ON DRAWINGS. NEW RESTROOM SIGNAGE TO BE PROVIDED BY CONTRACTOR TO MATCH FACILITY STANDARDS. EXISTING DAMAGED RESTROOM SIGNAGE SHALL BE REPLACED AND INSTALLED BY CONTRACTOR. ALL RESTROOM SIGNAGE TO COMPLY WITH STATE TAS STANDARDS. CONTRACTOR TO NOTIFY ARCHITECT FOR ANY DISCREPANCIES.

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

SYMBOL LEGEND

- NAME — ROOM NAME
- 101 — ROOM NUMBER
- TA-X — TOILET ACCESSORY TAG

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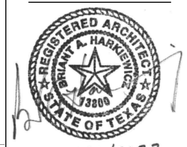

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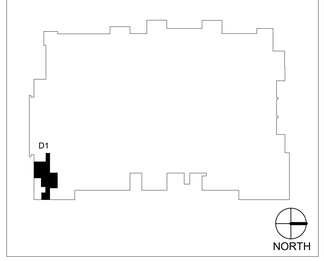
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

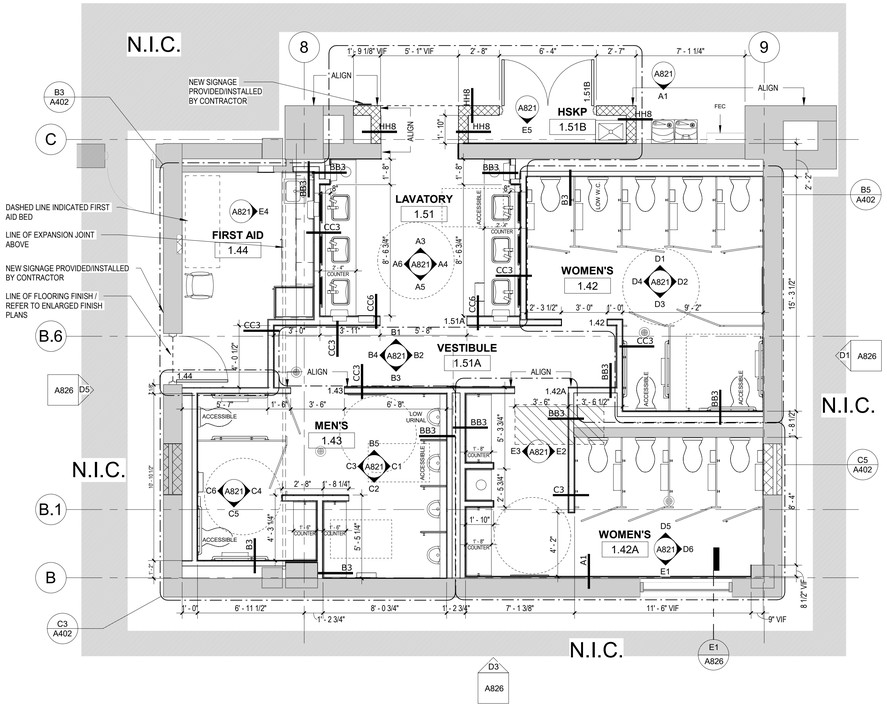
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

KEY PLAN - LEVEL 1

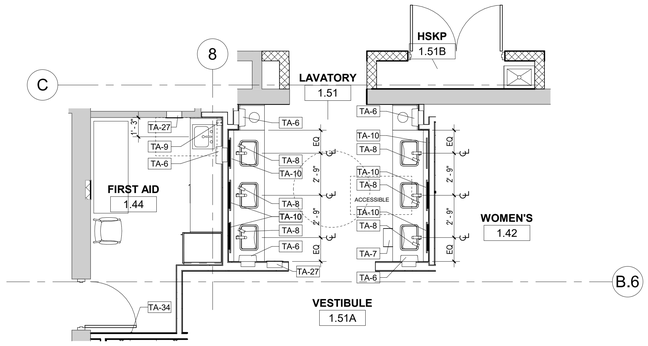


SHEET TITLE
LEVEL 1 - ENLARGED FLOOR PLAN - SOUTH

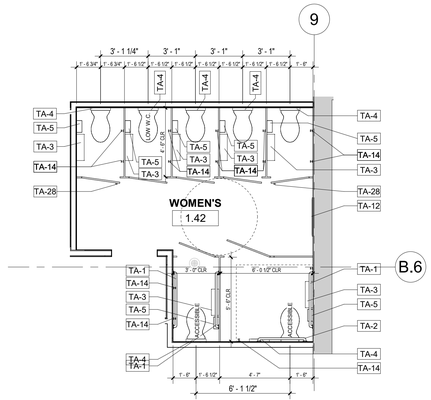
SHEET NO.
A401



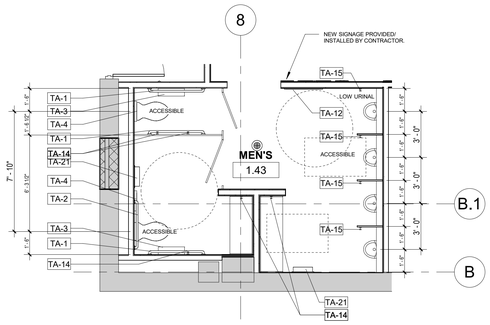
C1 A402 LEVEL 1: ENLARGED FLOOR PLAN - EAST RESTROOMS
1/4" = 1'-0"
NORTH PLAN N.



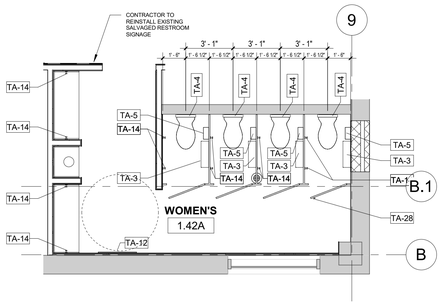
B3 A402 ENLARGED FIXTURE PLAN (1.44 & 1.51)
1/4" = 1'-0"
NORTH PLAN N.



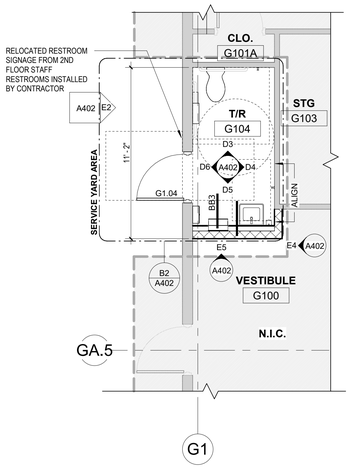
B5 A402 ENLARGED FIXTURE PLAN (1.42)
1/4" = 1'-0"
NORTH PLAN N.



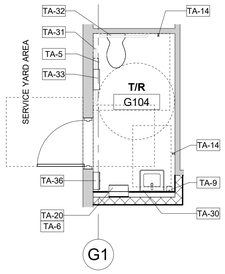
C3 A402 ENLARGED FIXTURE PLAN (1.43)
1/4" = 1'-0"
NORTH PLAN N.



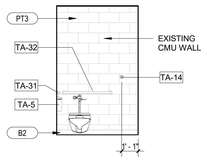
C5 A402 ENLARGED FIXTURE PLAN (1.42A)
1/4" = 1'-0"
NORTH PLAN N.



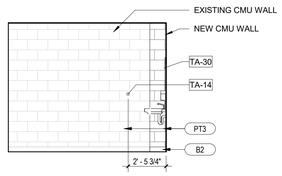
E1 A402 LEVEL 1: ENLARGED FLOOR PLAN - GARAGE
1/4" = 1'-0"
NORTH PLAN N.



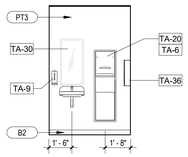
B2 A402 ENLARGED FIXTURE PLAN (G104)
1/4" = 1'-0"
NORTH PLAN N.



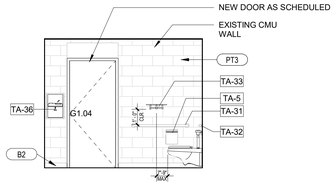
D3 A402 T/R (G104) - N
1/4" = 1'-0"



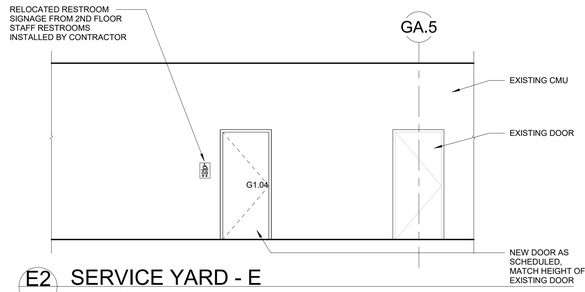
D4 A402 T/R (G104) - E
1/4" = 1'-0"



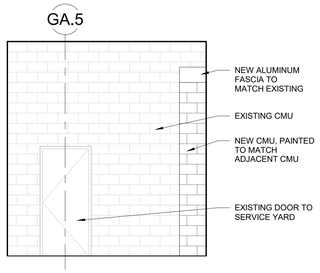
D5 A402 T/R (G104) - S
1/4" = 1'-0"



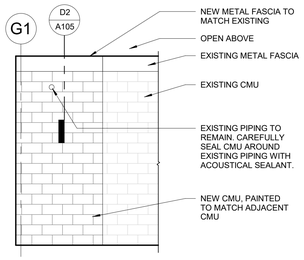
D6 A402 T/R (G104) - W
1/4" = 1'-0"



E2 A402 SERVICE YARD - E
1/4" = 1'-0"

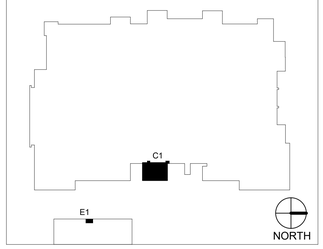


E4 A402 VESTIBULE (G100) - N
1/4" = 1'-0"



E5 A402 VESTIBULE (G100) - W
1/4" = 1'-0"

KEY PLAN - LEVEL 1



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REGISTERED ARCHITECT BRYANT A. HARKENCLEROAD 13800 STATE OF TEXAS
6/6/2022

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900 BARTON SPRINGS RD, AUSTIN, TX 78704

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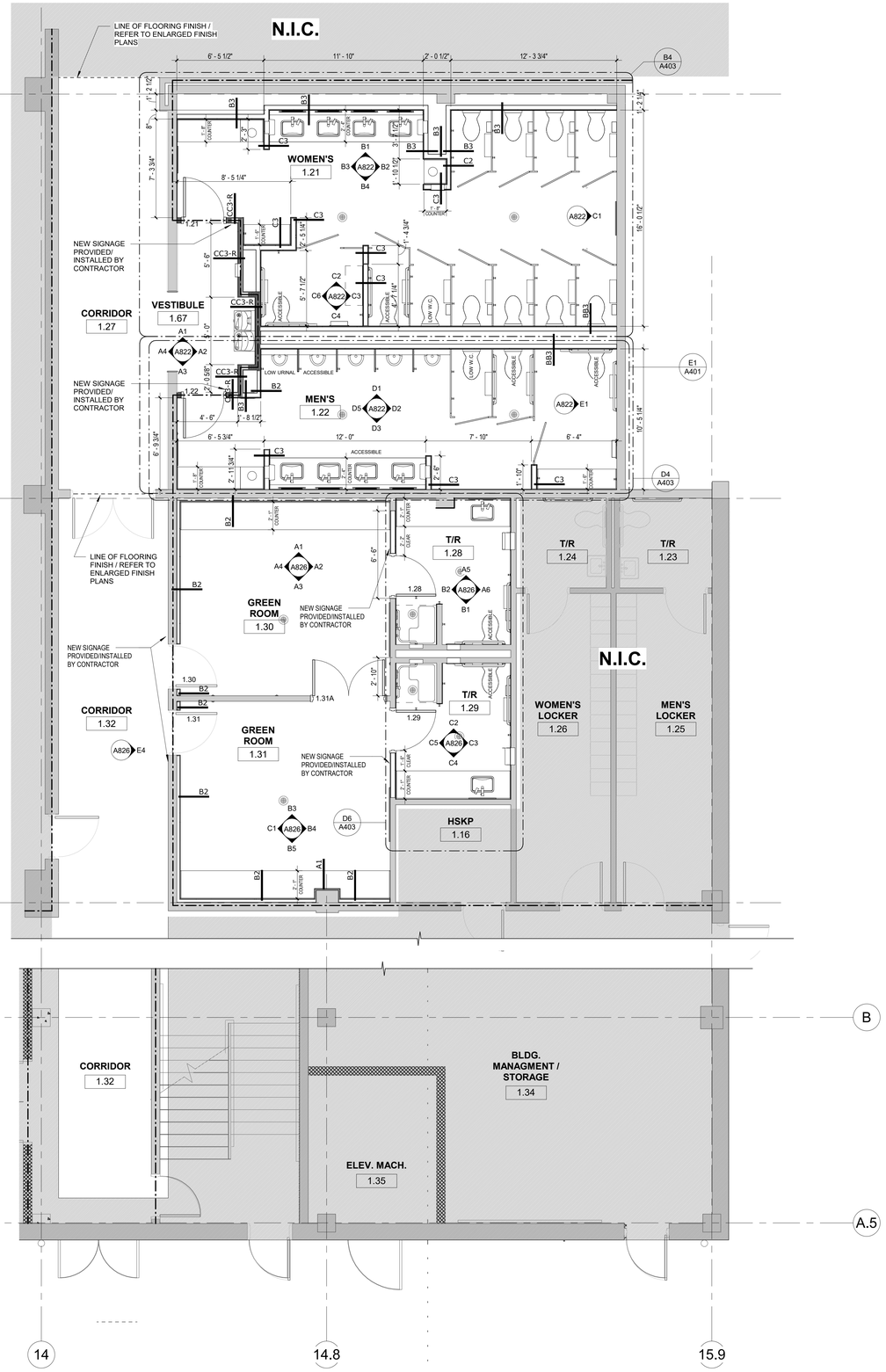
SHEET TITLE
LEVEL 1 - ENLARGED FLOOR PLAN - EAST & GARAGE

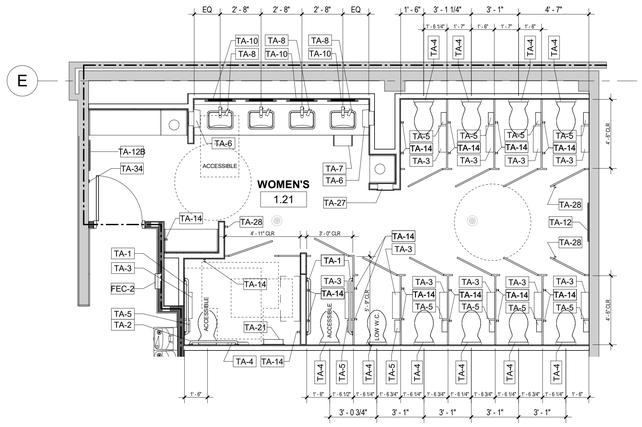
SHEET NO.
A402



E1 A403 LEVEL 1: ENLARGED FLOOR PLAN - NORTH

1/4" = 1'-0"

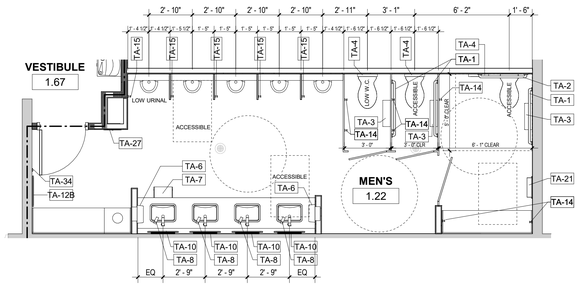
NORTH PLAN N.



B4 A403 WOMEN'S ENLARGED FIXTURE PLAN (1.21)

1/4" = 1'-0"

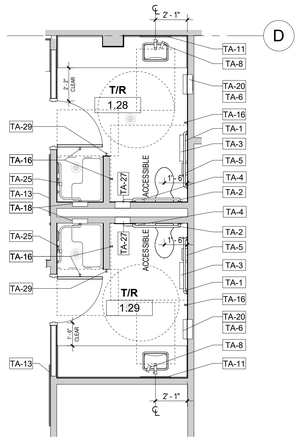
NORTH PLAN N.



D4 A403 MEN'S ENLARGED FIXTURE PLAN (1.22)

1/4" = 1'-0"

NORTH PLAN N.



D6 A403 ENLARGED FIXTURE PLAN - SHOWERS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL FLOOR PLAN NOTES

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
2. SEE SHEET I103 FOR TYPICAL MOUNTING HEIGHTS AND TOILET ACCESSORY SCHEDULE .
3. SEE COVER SHEET FOR SYMBOL LEGEND AND ABBREVIATIONS.
4. SEE SHEET A900 SERIES FOR FINISHES AND FLOOR PATTERNS.
5. EXISTING RESTROOM SIGNAGE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. EXISTING SIGNAGE TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND SALVAGED BY CONTRACTOR DURING CONSTRUCTION AND REINSTALLED AS INDICATED ON DRAWINGS. NEW RESTROOM SIGNAGE TO BE PROVIDED BY CONTRACTOR TO MATCH FACILITY STANDARDS. EXISTING DAMAGED RESTROOM SIGNAGE SHALL BE REPLACED AND INSTALLED BY CONTRACTOR. ALL RESTROOM SIGNAGE TO COMPLY WITH STATE TAS STANDARDS. CONTRACTOR TO NOTIFY ARCHITECT FOR ANY DISCREPANCIES.

FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

SYMBOL LEGEND

- NAME — ROOM NAME
- 101 — ROOM NUMBER
- TA-X — TOILET ACCESSORY TAG

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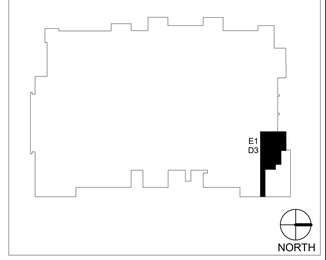
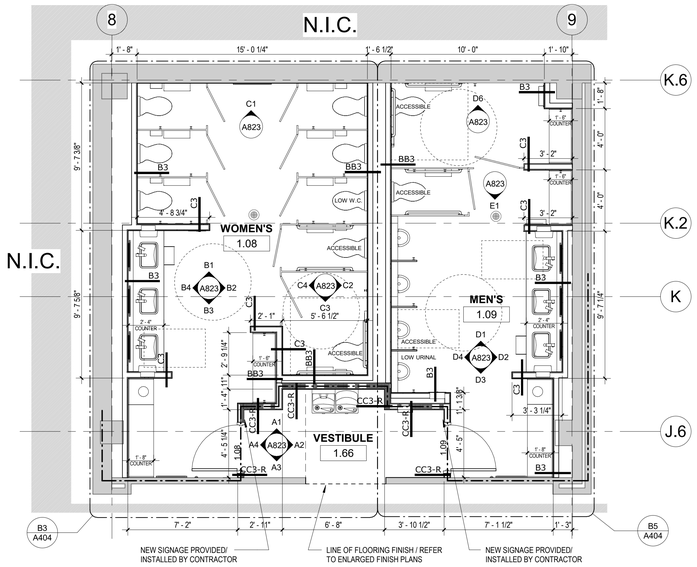
Revisions	

KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 1 - ENLARGED FLOOR PLAN - NORTH

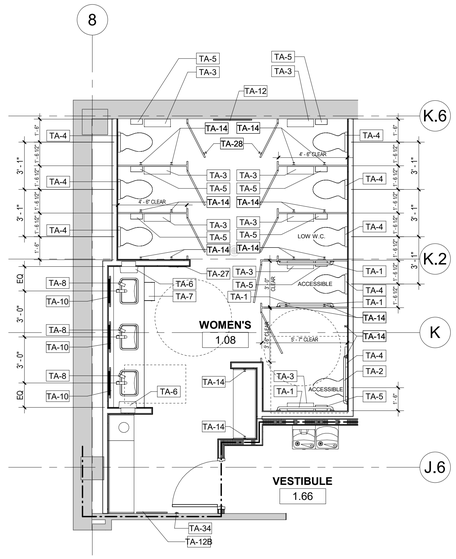
SHEET NO.
A403



B1 A404 LEVEL 1: ENLARGED FLOOR PLAN - WEST RESTROOMS

1/4" = 1'-0"

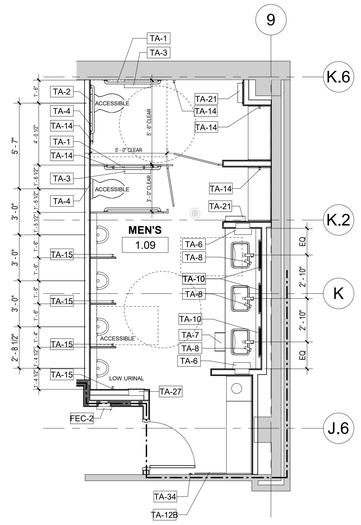
NORTH PLAN N.



B3 A404 WOMEN'S ENLARGED FIXTURE PLAN (1.08)

1/4" = 1'-0"

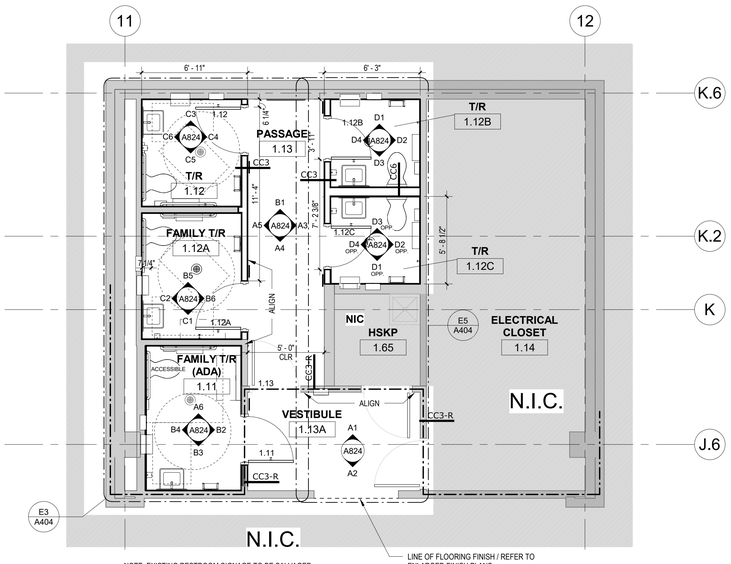
NORTH PLAN N.



B5 A404 MEN'S ENLARGED FIXTURE PLAN (1.09)

1/4" = 1'-0"

NORTH PLAN N.

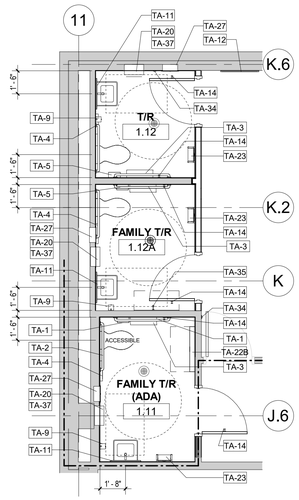


NOTE: EXISTING RESTROOM SIGNAGE TO BE SALVAGED AND REINSTALLED BY CONTRACTOR. NEW RESTROOM SIGNAGE PROVIDED / INSTALLED BY CONTRACTOR. REFER TO ELEVATIONS ON SHEET A824 FOR LOCATIONS.

E1 A404 LEVEL 1: ENLARGED FLOOR PLAN - WEST FAMILY RESTROOMS

1/4" = 1'-0"

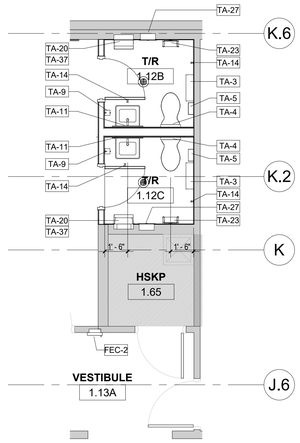
NORTH PLAN N.



E3 A404 FAMILY ENLARGED FIXTURE PLAN (1)

1/4" = 1'-0"

NORTH PLAN N.



E5 A404 FAMILY ENLARGED FIXTURE PLAN (2)

1/4" = 1'-0"

NORTH PLAN N.

GENERAL FLOOR PLAN NOTES

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
2. SEE SHEET I103 FOR TYPICAL MOUNTING HEIGHTS AND TOILET ACCESSORY SCHEDULE.
3. SEE COVER SHEET FOR SYMBOL LEGEND AND ABBREVIATIONS.
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FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

SYMBOL LEGEND

- NAME — ROOM NAME
- 101 — ROOM NUMBER
- TA-X — TOILET ACCESSORY TAG

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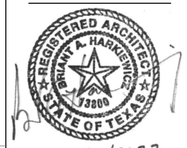

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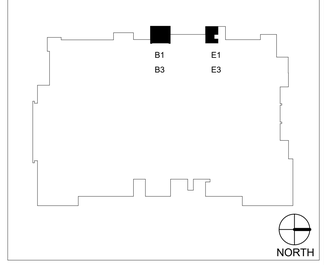
KEY PLAN - LEVEL 1

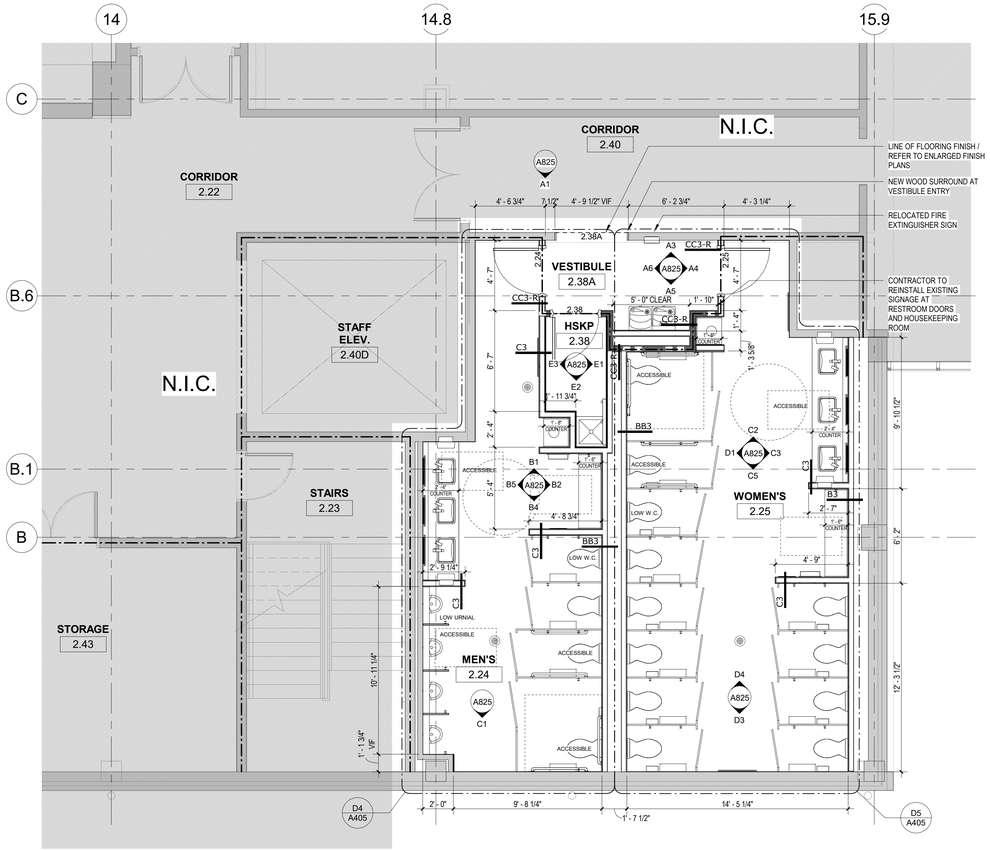


SHEET TITLE

LEVEL 1 - ENLARGED FLOOR PLAN - WEST

SHEET NO.

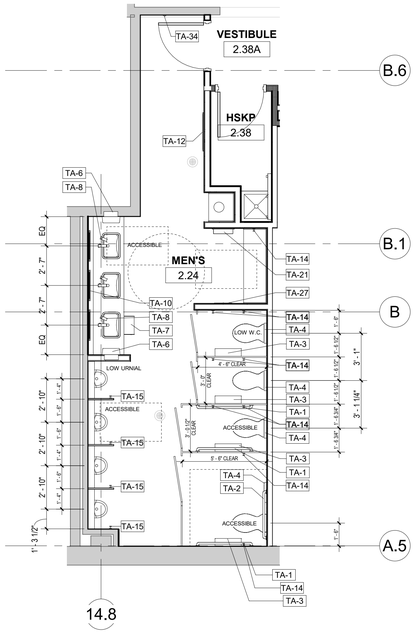
A404



C1 A405 LEVEL 2 - ENLARGED FLOOR PLAN - NORTH RESTROOMS

1/4" = 1'-0"

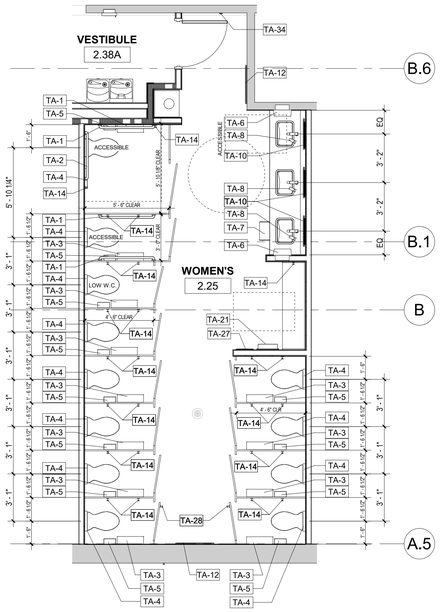
NORTH PLAN N.



D4 A405 ENLARGED FIXTURE PLAN (2.24)

1/4" = 1'-0"

NORTH PLAN N.



D5 A405 ENARLGED FIXURE PLAN (2.25)

1/4" = 1'-0"

NORTH PLAN N.

GENERAL FLOOR PLAN NOTES

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
2. SEE SHEET I103 FOR TYPICAL MOUNTING HEIGHTS AND TOILET ACCESSORY SCHEDULE .
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4. SEE SHEET A900 SERIES FOR FINISHES AND FLOOR PATTERNS.
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FLOOR PLAN LEGEND

- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
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- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

SYMBOL LEGEND

- NAME — ROOM NAME
- 101 — ROOM NUMBER
- TA-X — TOILET ACCESSORY TAG

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REGISTERED ARCHITECT BRIANT A. HARKENRIDER 13800 STATE OF TEXAS

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Drawn	NH
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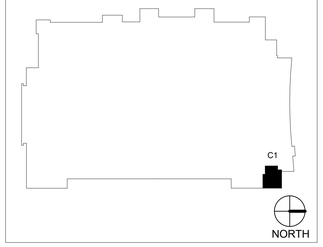
Date	06.06.2022
Project No.	20027
Revisions	

KEY PLAN - LEVEL 2

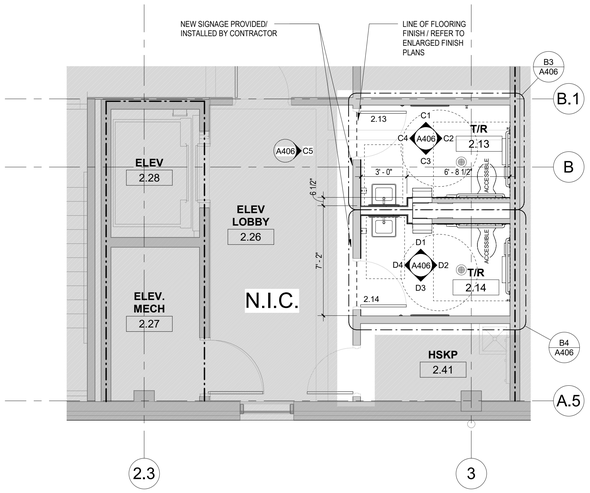


SHEET TITLE

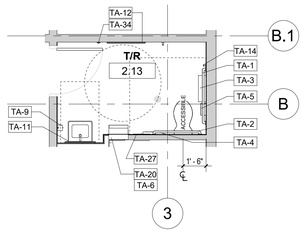
LEVEL 2 - ENLARGED FLOOR PLAN - NORTH

SHEET NO.

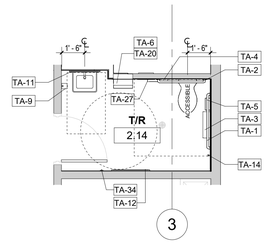
A405



B1 A406 LEVEL 2: ENLARGED FLOOR PLAN - STAFF RESTROOMS
1/4" = 1'-0"



B3 A406 ENLARGED FIXTURE PLAN (2.13)
1/4" = 1'-0"



B4 A406 ENLARGED FIXTURE PLAN (2.14)
1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

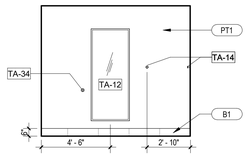
1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULE.
2. SEE SHEET I103 FOR TYPICAL MOUNTING HEIGHTS AND TOILET ACCESSORY SCHEDULE .
3. SEE COVER SHEET FOR SYMBOL LEGEND AND ABBREVIATIONS.
4. SEE SHEET A900 SERIES FOR FINISHES AND FLOOR PATTERNS.
5. EXISTING RESTROOM SIGNAGE TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. EXISTING SIGNAGE TO BE RELOCATED SHALL BE CAREFULLY REMOVED AND SALVAGED BY CONTRACTOR DURING CONSTRUCTION AND REINSTALLED AS INDICATED ON DRAWINGS. NEW RESTROOM SIGNAGE TO BE PROVIDED BY CONTRACTOR TO MATCH FACILITY STANDARDS. EXISTING DAMAGED RESTROOM SIGNAGE SHALL BE REPLACED AND INSTALLED BY CONTRACTOR. ALL RESTROOM SIGNAGE TO COMPLY WITH STATE TAS STANDARDS. CONTRACTOR TO NOTIFY ARCHITECT FOR ANY DISCREPANCIES.

FLOOR PLAN LEGEND

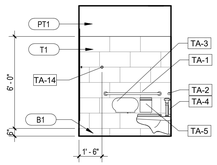
- EXISTING CONSTRUCTION PARTITION, DOOR, GLAZING AND FRAMES TO REMAIN
- SMOKE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE PARTITION, SEE PARTITION TYPE
- 1 HR FIRE / SMOKE PARTITION, SEE PARTITION TYPE
- 2 HR FIRE PARTITION, SEE PARTITION TYPE
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

SYMBOL LEGEND

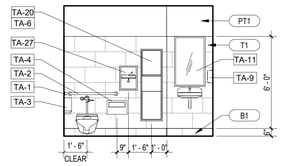
- NAME — ROOM NAME
- 101 — ROOM NUMBER
- TA-X — TOILET ACCESSORY TAG



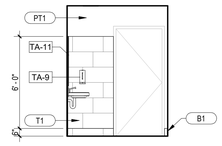
C1 A406 T/R (2.13) - N
1/4" = 1'-0"



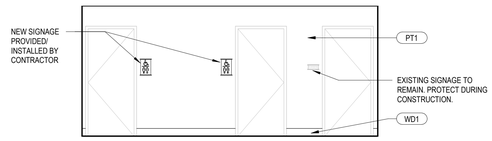
C2 A406 T/R (2.13) - E
1/4" = 1'-0"



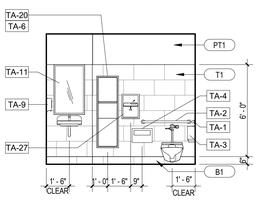
C3 A406 T/R (2.13) - S
1/4" = 1'-0"



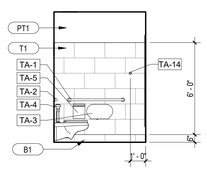
C4 A406 T/R (2.13) - W
1/4" = 1'-0"



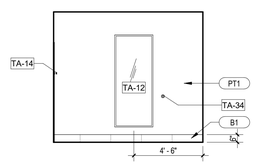
C5 A406 ELEV. LOBBY (2.26) - E
1/4" = 1'-0"



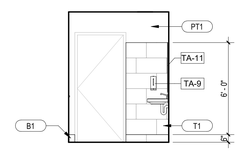
D1 A406 T/R (2.14) - N
1/4" = 1'-0"



D2 A406 T/R (2.14) - E
1/4" = 1'-0"

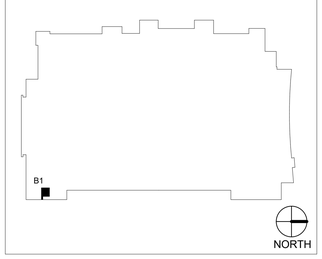


D3 A406 T/R (2.14) - S
1/4" = 1'-0"



D4 A406 T/R (2.14) - W
1/4" = 1'-0"

KEY PLAN - LEVEL 2



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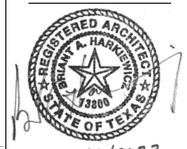


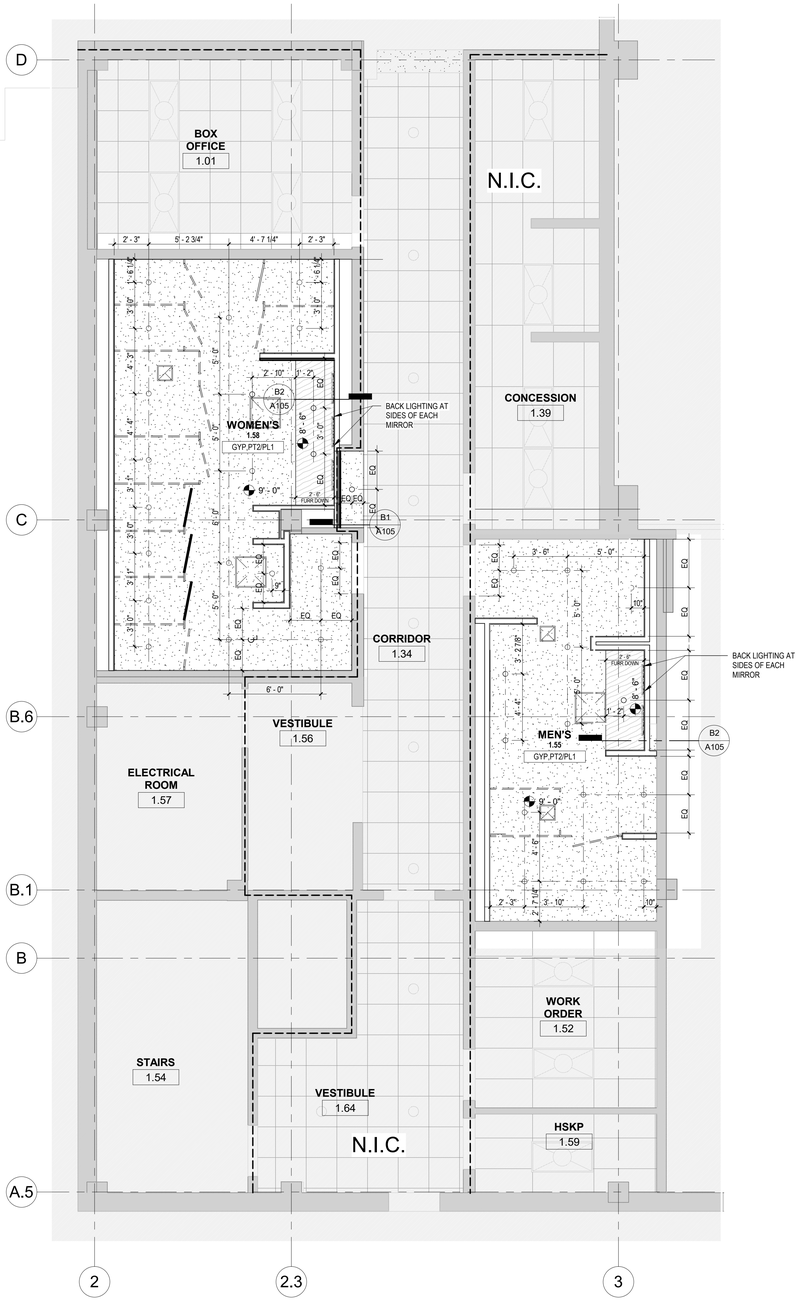
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 2 - ENLARGED FLOOR PLAN - STAFF

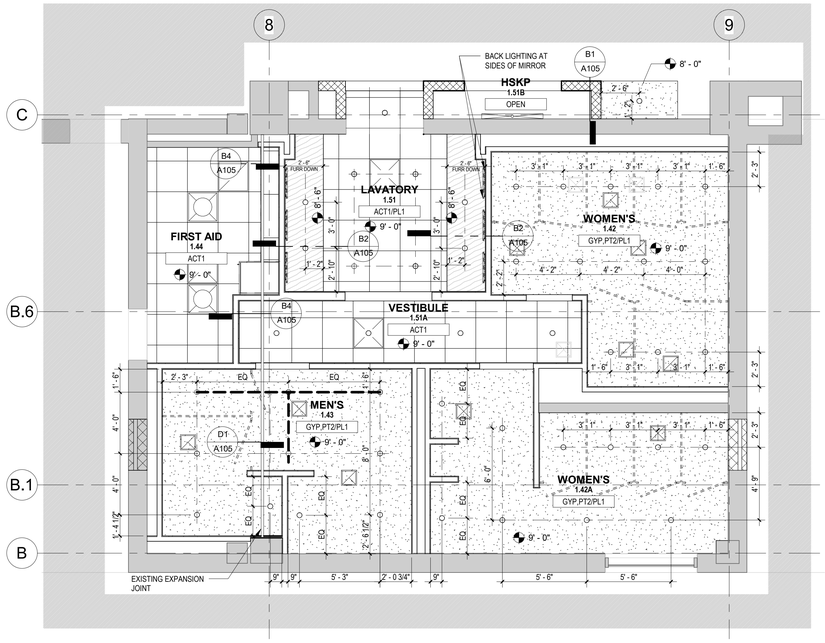
SHEET NO.
A406



D1 A501 LEVEL 1: ENLARGED REFLECTED CEILING PLAN - SOUTH RESTROOMS

1/4" = 1'-0"

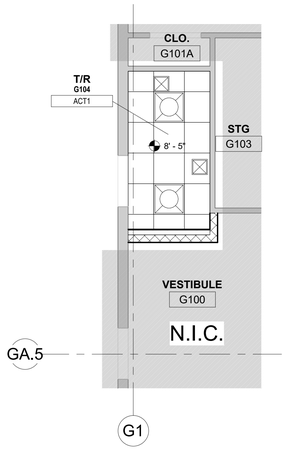
NORTH PLAN N.



C3 A501 LEVEL 1: ENLARGED REFLECTED CEILING PLAN - EAST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



D3 A501 LEVEL 1 - REFLECTED CEILING PLAN - GARAGE

1/4" = 1'-0"

NORTH PLAN N.

GENERAL LIGHTING NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE TO VERIFY ALL EXISTING CEILING HEIGHTS.
2. REFER TO THE FINISH LEGEND FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
3. THE CONTRACTOR IS RESPONSIBLE TO VERIFY AND MAINTAIN EXISTING ACCESS PANELS IN ROOMS WITH GYPSUM BOARD CEILINGS.

CEILING LEGEND

- 2'X4' LAY IN ACOUSTIC TILE CEILING
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- AP — ACCESS PANEL
- X' -X" — CEILING TAG WITH HEIGHT
- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR SUPPLY
- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE (EXISTING TO BE REUSED)
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- EXISTING EXIT SIGN, SINGLE-SIDED
- EXISTING EXIT SIGN, DOUBLE-SIDED
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

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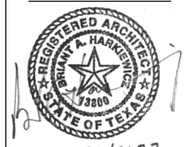

6/6/2022

CITY OF AUSTIN
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PLUMBING & RESTROOM UPGRADE REBID
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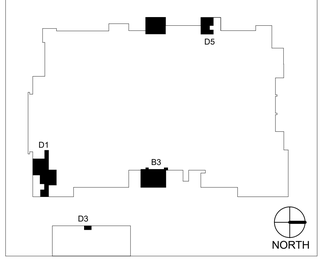
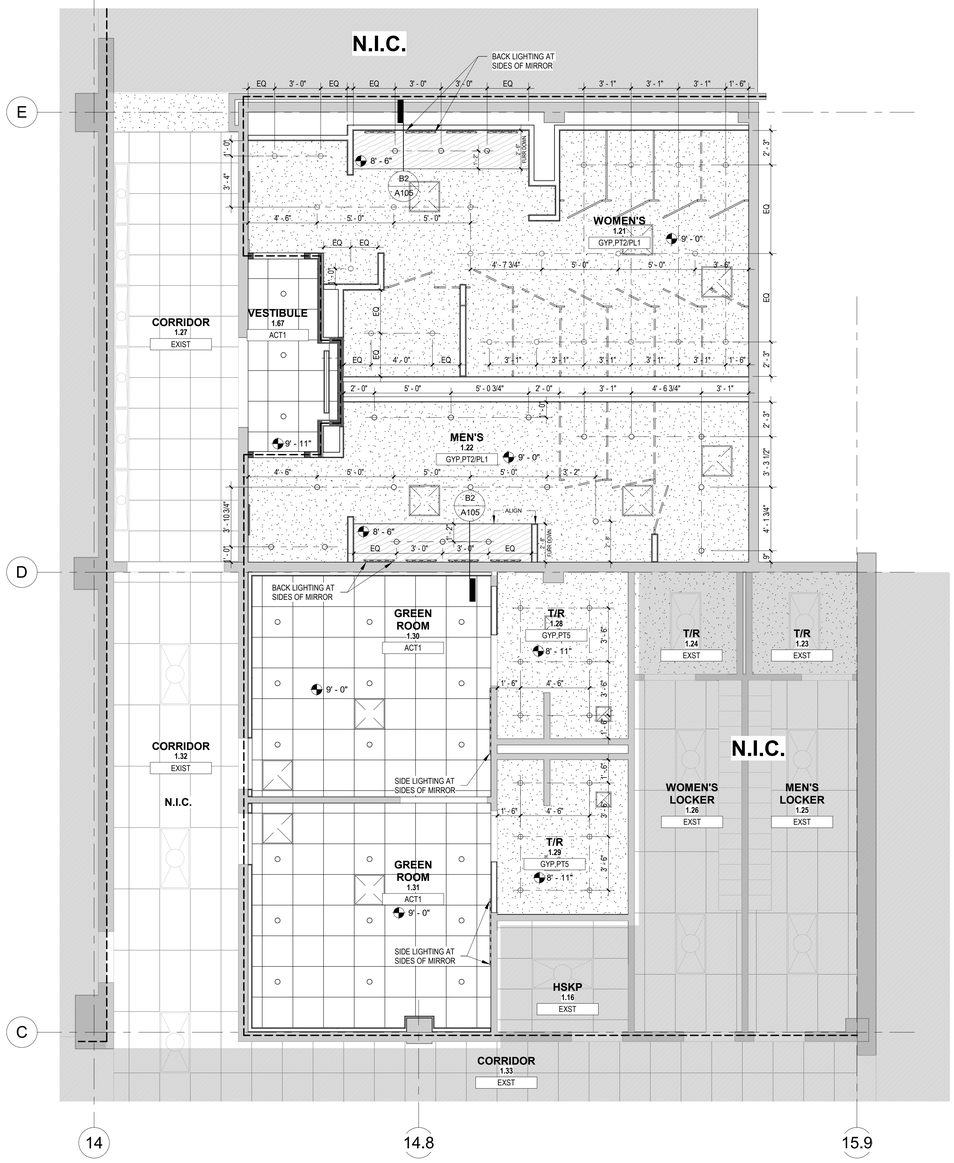
KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 1 - ENLARGED RCP - SOUTH & EAST

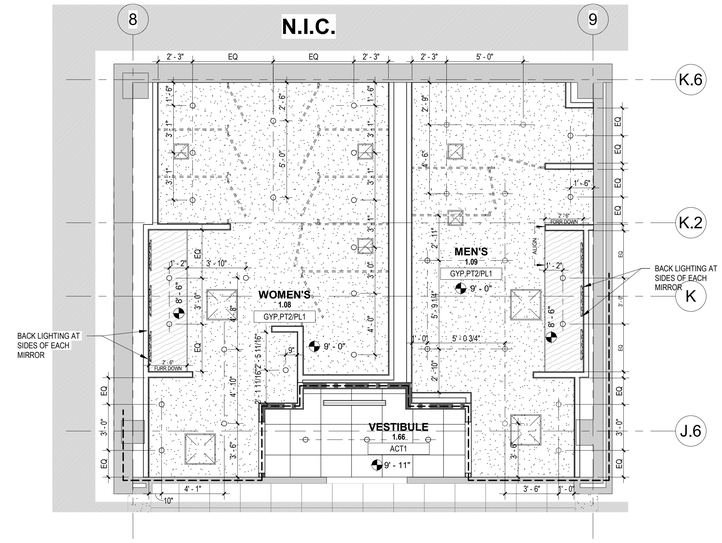
SHEET NO.
A501



D1 A502 LEVEL 1: ENLARGED REFLECTED CEILNG PLAN - NORTH RESTROOMS

1/4" = 1'-0"

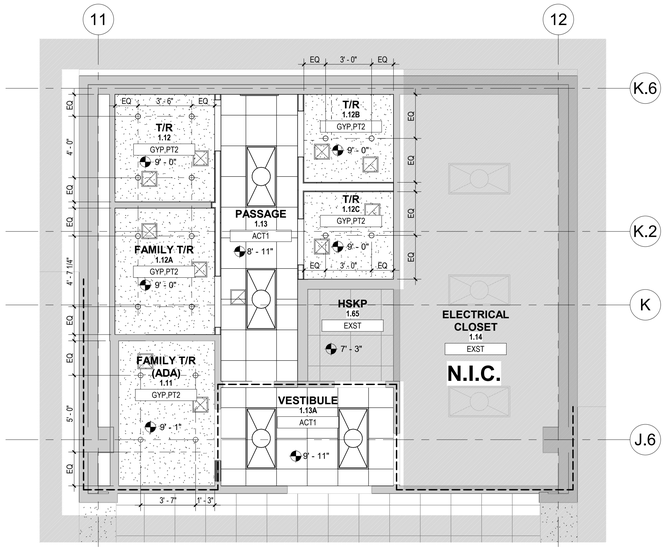
NORTH PLAN N.



B4 A502 LEVEL 1: ENLARGED REFLECTED CEILNG PLAN - WEST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



D4 A502 LEVEL 1: ENLARGED REFLECTED CEILNG PLAN - WEST FAMILY RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL LIGHTING NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE TO VERIFY ALL EXISTING CEILING HEIGHTS.
2. REFER TO THE FINISH LEGEND FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
3. THE CONTRACTOR IS RESPONSIBLE TO VERIFY AND MAINTAIN EXISTING ACCESS PANELS IN ROOMS WITH GYPSUM BOARD CEILINGS.

CEILING LEGEND

- 2'X4' LAY IN ACOUSTIC TILE CEILING
- 2'X2' LAY IN ACOUSTIC TILE CEILING
- GYPSUM BOARD
- AP — ACCESS PANEL
- X' -X" — CEILING TAG WITH HEIGHT
- SUPPLY GRILLE
- RETURN GRILLE
- EXHAUST GRILLE
- LINEAR SUPPLY
- 2'X4' FLUORESCENT FIXTURE
- 2'X2' FLUORESCENT FIXTURE
- 1'X4' FLUORESCENT FIXTURE (EXISTING TO BE REUSED)
- FLUORESCENT STRIP FIXTURE
- RECESSED DOWN LIGHT
- EXISTING EXIT SIGN, SINGLE-SIDED
- EXISTING EXIT SIGN, DOUBLE-SIDED
- N.I.C. — AREA NOT IN PHASE OF WORK
- LOCATION OF EXISTING 1 HR FIRE WALL

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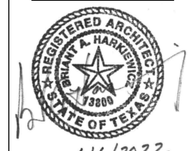


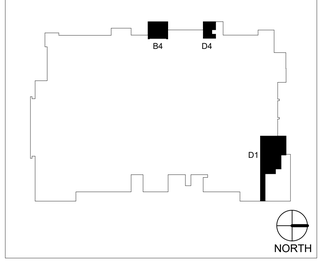
CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

KEY PLAN - LEVEL 1



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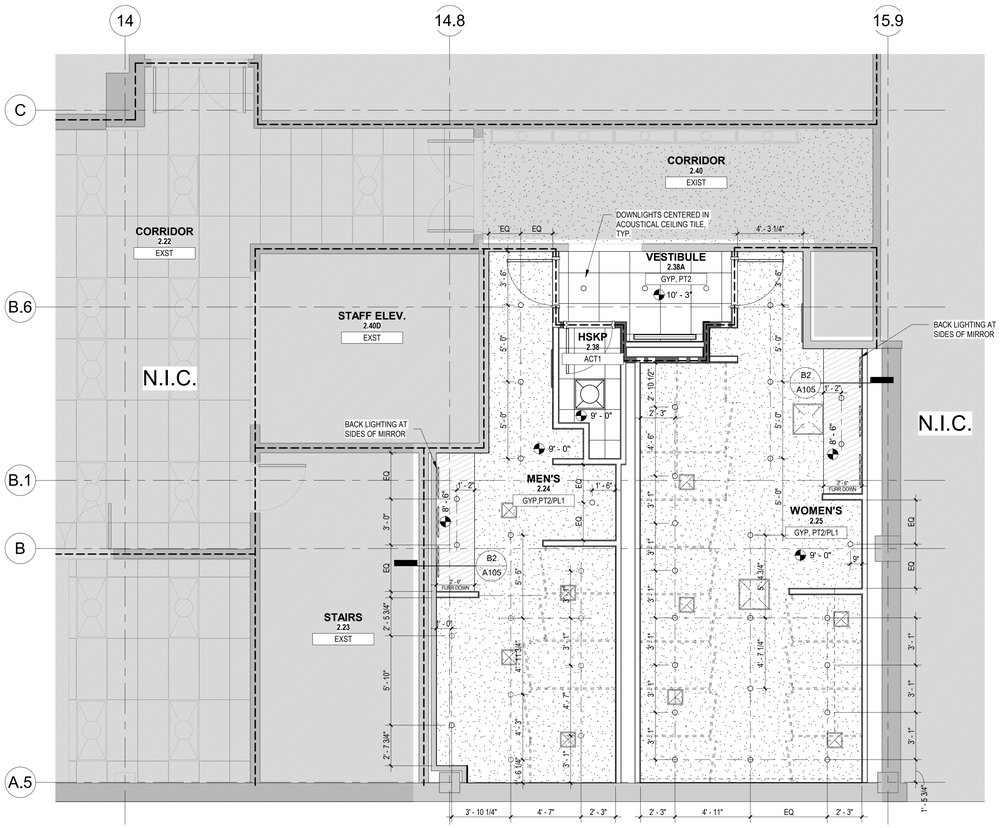
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE

LEVEL 1 - ENLARGED RCP - NORTH AND WEST

SHEET NO.

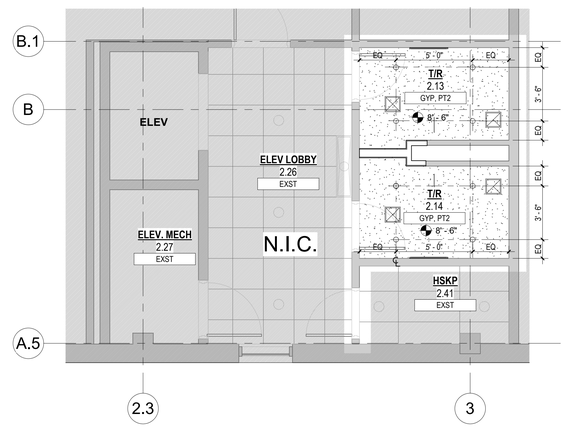
A502



C1 A503 LEVEL 2 - ENLARGED RCP - NORTH RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



C4 A503 LEVEL 2: ENLARGED RCP - STAFF RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL LIGHTING NOTES

1. THE CONTRACTOR (GENERAL CONTRACTOR OR CONSTRUCTION MANAGER) IS RESPONSIBLE TO VERIFY ALL EXISTING CEILING HEIGHTS.
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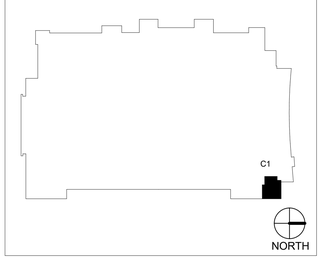
3. THE CONTRACTOR IS RESPONSIBLE TO VERIFY AND MAINTAIN EXISTING ACCESS PANELS IN ROOMS WITH GYPSUM BOARD CEILINGS.

CEILING LEGEND

	2'X4' LAY IN ACOUSTIC TILE CEILING
	2'X2' LAY IN ACOUSTIC TILE CEILING
	GYPSUM BOARD
AP	ACCESS PANEL
X' -X"	CEILING TAG WITH HEIGHT
	SUPPLY GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	LINEAR SUPPLY
	2'X4' FLUORESCENT FIXTURE
	2'X2' FLUORESCENT FIXTURE
	1'X4' FLUORESCENT FIXTURE (EXISTING TO BE REUSED)
	FLUORESCENT STRIP FIXTURE
	RECESSED DOWN LIGHT
	EXISTING EXIT SIGN, SINGLE-SIDED
	EXISTING EXIT SIGN, DOUBLE-SIDED
N.I.C.	AREA NOT IN PHASE OF WORK
	LOCATION OF EXISTING 1 HR FIRE WALL

KEY PLAN - LEVEL 2



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REGISTERED ARCHITECT BRYANT A. HARMENCIC 13800 STATE OF TEXAS

6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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SHEET TITLE
LEVEL 2 - ENLARGED RCP - NORTH & STAFF

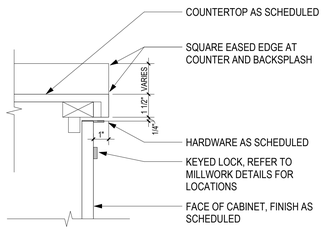
SHEET NO.
A503

FINISH LEGEND

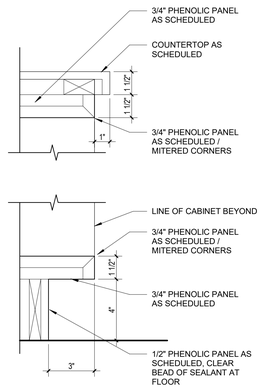
FINISH CODE	DESCRIPTION	MANUFACTURER	COLOR & NAME	PATTERN	SIZE	NOTES	LOCATION IN PROJECT	CONTACT
BASE								
B1	PORCELAIN TILE	CROSSVILLE STUDIOS / MILESTONE	IVORY	REVIVAL	CUT TILE 6" X 24"	FINISHED EDGE TO BE INSTALLED ON TOP	SINGLE OCCUPANCY RESTROOMS	DEBBY RYAN; DRYAN@CROSSVILLESTUDIOS.COM; 210-722-0950
B2	RUBBER BASE	JOHNSONITE / TARKETT	TOAST #283	-	6"		HOUSEKEEPING ROOMS	
CEILING								
APC1	ACOUSTICAL CEILING TILE - 2' X 2' GRID	ARMSTRONG	BEVELED TEGULAR / WHITE	1912 ULTIMA, HIGH NRC	24" X 24" / 9/16"	SUSPENSION SYSTEM - INTERLUDE XL HRC DIMENSIONAL TEE		MATT PATTERSON; PMPATTERSON@ARMSTRONGCEILINGS.COM; 210-488-3423
GYP1	GYPSUM BOARD CEILING		PAINT AS SCHEDULED					
CONCRETE								
SC1	EXPOSED SEALED CONCRETE	-	CLEAR	EXPOSED SEALED CONCRETE			GARAGE RESTROOM	
GLASS FILM								
WF1	WINDOW FILM	3M	BLACK	SOLID OPAQUE	-		EAST RESTROOM EXISTING WINDOW	
METAL								
MT1	METAL TRIM TRANSITIONS	SCHLUTER	SCHIENE / FINISH: SATIN ANODIZED	-	3/8"		TOP AND SIDE TRIM AT WALL TILE	JOSIE JANSSEN; JJANSSEN@SCHLUTER.COM; 512-230-7953
MT2	METAL TRIM TRANSITIONS	SCHLUTER	RENO TK / ALUMINUM, FINISH: SATIN ANODIZED	-	3/8"		TRANSITION AT CARPET TO TILE	JOSIE JANSSEN; JJANSSEN@SCHLUTER.COM; 512-230-7953
MT3	METAL TRIM TRANSITIONS	SCHLUTER	RENO-RAMP/-K / FINISH: SATIN ANODIZED	-	2 1/2" WIDE		TRANSITION AT CONCRETE TO TILE	JOSIE JANSSEN; JJANSSEN@SCHLUTER.COM; 512-230-7953
MT4	METAL TRIM TRANSITIONS	SCHLUTER	RENO U / FINISH: SATIN ANODIZED ALUMINUM	-	3/8"		TRANSITION AT TILE TO CONCRETE & LVT	JOSIE JANSSEN; JJANSSEN@SCHLUTER.COM; 512-230-7953
MISCELLANEOUS								
EXIST	EXISTING FINISH TO REMAIN	-		EXPOSED SEALED CONCRETE		EXISTING FINISH TO REMAIN; PROTECT DURING CONSTRUCTION		
PAINT								
PT1	PAINT	BENJAMIN MOORE	TBD	FINISH: EGGSHELL			GENERAL PAINT	
PT2	PAINT (CEILING)	BENJAMIN MOORE	TBD	FINISH: FLAT			CEILINGS	
PT3	PAINT (ACCENT) EXISTING	BENJAMIN MOORE	LENOX TAN #HC-44 (EXISTING)	FINISH: EGGSHELL		VERIFY THAT PAINT COLOR AND FINISH MATCH EXISTING	ACCENT PAINT (FACILITY STANDARD)	
PT4	PAINT (ACCENT) EXISTING	BENJAMIN MOORE	TEXAS LEATHER #AC3 (EXISTING)	FINISH: EGGSHELL		VERIFY THAT PAINT COLOR AND FINISH MATCH EXISTING	ACCENT PAINT (FACILITY STANDARD)	
PT5	PAINT (EPOXY)	BENJAMIN MOORE	TBD (EXPOY)	FINISH: SEMI GLOSS		LATEX EPOXY PAINT/ENVIRONMENTAL ROLLED ON	SHOWER ROOMS	
PT6	PAINT (SEMI GLOSS)	BENJAMIN MOORE	TEXAS LEATHER #AC3 (EXISTING)	FINISH: SEMI GLOSS		VERIFY THAT PAINT COLOR AND FINISH MATCH EXISTING	DOOR FRAME PORTALS	
PT7	PAINT (EXTERIOR)	MATCH EXISTING	MATCH EXISTING	FINISH: MATCH EXISTING		VERIFY THAT PAINT COLOR AND FINISH MATCH EXISTING	EXTERIOR CMU	
PHENOLIC								
PH1	COMPACT LAMINATE PANELS	WILSONART	KENSINGTON MAPLE	-	3/4" THICKNESS	PATTERN TO RUN VERTICAL	TOILET PARTITION DOORS & PILASTERS, URINAL PARTITIONS AND CASEWORK	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
PH2	COMPACT LAMINATE PANELS	WILSONART	KENSINGTON MAPLE	-	1/2" THICKNESS	PATTERN TO RUN VERTICAL	TOILET PARTITION DIVIDERS	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
PH3	COMPACT LAMINATE PANELS	WILSONART	DOVE GRAY	-	1/8" THICKNESS x 48" HIGH	DOUBLE SIDED MATERIAL, MITERED EDGES / PROVIDE CLEAR SILICONE AT TOP AND BOTTOM EDGES / PATTERN TO RUN VERTICAL	WALL PROTECTION AT HOUSKEEPING ROOMS	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
PH4	COMPACT LAMINATE PANELS	WILSONART	KENSINGTON MAPLE	-	1/4" THICKNESS	PATTERN TO RUN VERTICAL	SHELF AT URINALS; REF. TO DETAIL E3/A802	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
PLASTIC LAMINATE								
PL1	PLASTIC LAMINATE	WILSONART	KENSINGTON MAPLE #10766	HIGH PRESSURE		PATTERN TO RUN VERTICAL	FIRST AID CASEWORK & FURR DOWN / FURR DOWN OVER SINKS	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
PL2	PLASTIC LAMINATE	WILSONART	LINEN #D427-60	HIGH PRESSURE			FIRST AID ROOM MILLWORK CABINET INTERIORS	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
SOLID SURFACE MATERIAL								
SSM1	QUARTZ	CAMBRIA	DELGATIE	-	3CM	SQUARE EASED EDGE / COUNTER SUPPORT HARDWARE	RESTROOM COUNTERS	NANCY MORENO; NANCY.MORENO@CAMBRIAUSA.COM; 281-591-7062
SSM2	SOLID SURFACE	CORIAN	LINEN	-	1/2" THICKNESS	SQUARE EASED EDGE	GREEN ROOM & FIRST AID ROOM COUNTERS	ZANE LAND; LANDZ@WILSONART.COM; 830-431-3298
TILE								
T1	PORCELAIN TILE	CROSSVILLE STUDIOS / MILESTONE	IVORY	REVIVAL	12"X24"	1/8" JOINTS / GROUT: CUSTOM BUILDING PRODUCTS, COLOR - NEW TAUPE #185 / REFER TO METAL TRIM TYPES / INSTALLED 1/3 OFFSET PATTERN	RESTROOMS & CORRIDORS (FLOORS AND WALLS)	DEBBY RYAN; DRYAN@CROSSVILLESTUDIOS.COM; 210-722-0950
T2	PORCELAIN TILE	TRINITY SURFACES	MORNING MIST LINEN	RHYTHM	12"X24"	1/8" JOINTS / GROUT: CUSTOM BUILDING PRODUCTS, COLOR - NEW TAUPE #185 / REFER TO METAL TRIM TYPES / INSTALLED 1/3 OFFSET PATTERN	RESTROOMS (WALLS)	KATHRYN JOHNSON; KJOHNSON@TRINITYSURFACES.COM; 770-480-8137
T3	GLAZED WALL TILE	DALTILE	ARCTIC WHITE	COLOR WHEEL	4"X12"	1/16" JOINTS / GROUT: CUSTOM BUILDING PRODUCTS, COLOR - NEW TAUPE #185 / REFER TO ELEVATION D5/A201 FOR DETAIL AT LAVATORY AREA	RESTROOMS (BEHIND MIRRORS & ACCENT WALLS) / HERRINGBONE PATTERN TO BE EVENLY INSTALLED BETWEEN MIRRORS	JULIE CARCANAGUES; JULIE.CARCANAGUES@DALTILE.COM; 210-842-5859
T4	PORCELAIN TILE	CROSSVILLE STUDIOS / MILESTONE	IVORY	REVIVAL	2"X2"	1/8" JOINTS / GROUT: CUSTOM BUILDING PRODUCTS, COLOR - NEW TAUPE #185 / METAL CORNER TRIM: TBD	SHOWER FLOOR	DEBBY RYAN; DRYAN@CROSSVILLESTUDIOS.COM; 210-722-0950
WOOD								
WD1	SOLID STOCK WOOD	-	CLEAR STAIN TO MATCH EXISTING	MAPLE / MATCH EXISTING PROFILE	MATCH EXISTING	MATCH EXISTING	VESTIBULE AND CORRIDORS	

ROOM FINISH SCHEDULE

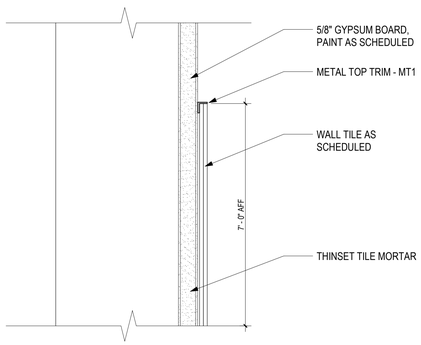
NUMBER	ROOM NAME	BASE	FLOOR	WALL	CEILING	COUNTER	CASEWORK	COMMENTS
1.06	CORRIDOR	EXIST	EXIST	EXIST	EXIST	-	-	
1.08	WOMEN'S	T2	T1	PT1/T2,T3	GYP,PT2/PL1	SSM1	PH1	
1.09	MEN'S	T2	T1	PT1/T2,T3	GYP,PT2/PL1	SSM1	PH1	
1.11	FAMILY T/R (ADA)	T1	T1	PT1/T1	GYP,PT2	SSM1	-	
1.12	T/R	T1	T1	PT1/T1	GYP,PT2	SSM1	-	
1.12A	FAMILY T/R	T1	T1	PT1/T1	GYP,PT2	SSM1	-	
1.12B	T/R	T1	T1	PT1/T1	GYP,PT2	SSM1	-	
1.12C	T/R	T1	T1	PT1/T1	GYP,PT2	SSM1	-	
1.13	PASSAGE	WD1	T1	PT3	ACT1	-	-	
1.13A	VESTIBULE	WD1	T1	PT3	ACT1	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
1.15	CORRIDOR	EXIST	EXIST	EXIST	EXIST	-	-	
1.21	WOMEN'S	T2	T1	PT1/T2,T3	GYP,PT2/PL1	SSM1	PH1	
1.22	MEN'S	T2	T1	PT1/T2,T3	GYP,PT2/PL1	SSM1	PH1	
1.27	CORRIDOR	EXIST	T1	EXIST	EXIST	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
1.28	T/R	T1	T1,T4	PT5/T1	GYP,PT5	SSM1	PL1	
1.29	T/R	T1	T1,T4	PT5/T1	GYP,PT5	SSM1	PL1	
1.30	GREEN ROOM	B2	T1	PT1	ACT1	SSM2	PH1	
1.31	GREEN ROOM	B2	T1	PT1	ACT1	SSM2	PH1	
1.32	CORRIDOR	EXIST	EXIST	EXIST	EXIST	-	-	
1.34	CORRIDOR	EXIST	T1	T1	EXIST	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
1.42	WOMEN'S	T2	T1	PT1/T2	GYP,PT2/PL1	-	PH1	
1.42A	WOMEN'S	T2	T1	PT1/T2	GYP,PT2/PL1	SSM1	PH1	
1.43	MEN'S	T2	T1	PT1/T2	GYP,PT2/PL1	SSM1	PH1	
1.44	FIRST AID	B2	T1	PT1	ACT1	SSM2	PL1	
1.51	LAVATORY	T1	T1	T2,T3/MT1	ACT1/PL1	SSM1	PH1	
1.51A	VESTIBULE	T2	T1	T2,T3/PH2	ACT1	-	-	
1.51B	HSKP	-	SC1	PT4/PH3	OPEN	-	-	CEILING OPEN TO UNDERSIDE OF CMU STRUCTURE ABOVE
1.55	MEN'S	T2	T1	T2,T3/MT1	GYP,PT2/PL1	SSM1	PH1	
1.56	VESTIBULE	EXIST	T1	EXIST	EXIST	-	-	
1.58	WOMEN'S	T2	T1	T2,T3/MT1	GYP,PT2/PL1	SSM1	PH1	
1.64	VESTIBULE	EXIST	T1	EXIST	EXIST	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
1.66	VESTIBULE	WD1	T1	T2/PT3	ACT1	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
1.67	VESTIBULE	EXIST	T1	PT3/T2	ACT1	-	-	
2.13	T/R	T1	T1	PT1/T1	GYP, PT2	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
2.14	T/R	T1	T1	PT1/T1	GYP, PT2	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
2.24	MEN'S	T2	T1	PT1/T2,T3	GYP,PT2/PL1	SSM1	PH1	
2.25	WOMEN'S	T2	T1	PT1/T2,T3	GYP, PT2/PL1	SSM1	PH1	
2.38	HSKP	-	SC1	PT5/PH3	ACT1	-	-	
2.38A	VESTIBULE	WD1	T1	PT3/T2	GYP, PT2	-	-	REFER TO FLOOR TRANSISTION DETAILS ON SHEET A801
2.40	CORRIDOR	EXIST	EXIST	EXIST	EXIST	-	-	
G104	T/R	-	SC1	PT3	ACT1	-	-	



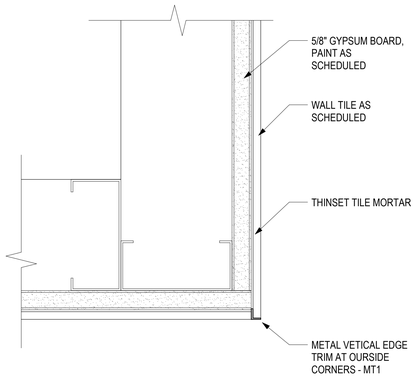
E1 A801 COUNTER DETAIL - EDGE
3" = 1'-0"



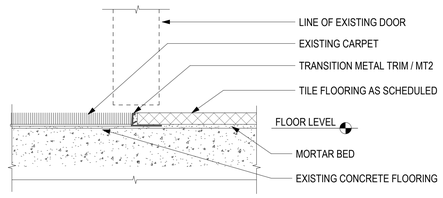
E2 A801 BASE CABINET DETAIL
3" = 1'-0"



E3 A801 TILE DETAIL - METAL TRIM (MT1)
6" = 1'-0"

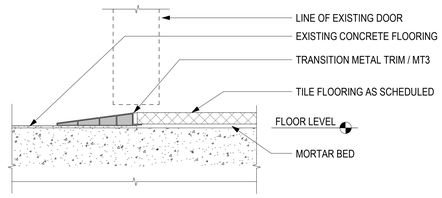


E4 A801 TILE DETAIL - CORNER TRIM (MT1)
6" = 1'-0"



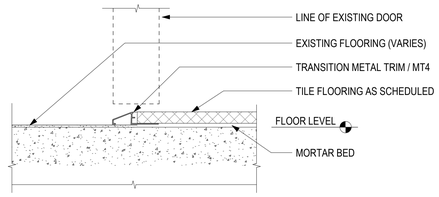
GENERAL NOTE: FLOORING TRANSITION TO BE CENTERED UNDER EXISTING DOOR.

C5 A801 FLOOR TRANSITION - CARPET TO TILE (MT2)
6" = 1'-0"



GENERAL NOTE: FLOORING TRANSITION TO BE CENTERED UNDER EXISTING DOOR.

D5 A801 FLOOR TRANSITION - CONCRETE TO TILE (MT3)
6" = 1'-0"



GENERAL NOTE: FLOORING TRANSITION TO BE CENTERED UNDER EXISTING DOOR.

E5 A801 FLOOR TRANSISTION - AT TILE (MT4)
6" = 1'-0"

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6/6/2022

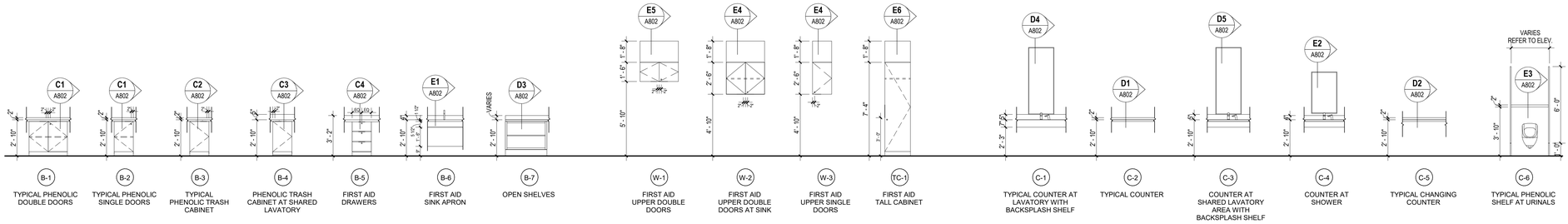
CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

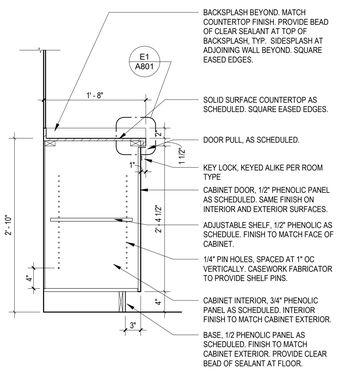
Drawn NH
Checked HM
Date 06.06.2022
Project No. 20027
Revisions

SHEET TITLE
FINISH SCHEDULE & LEGEND

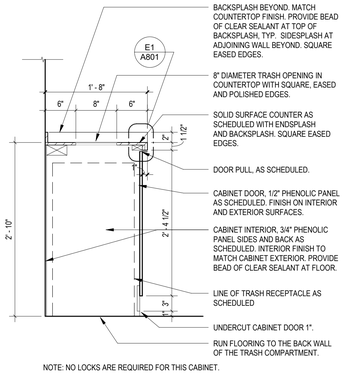
SHEET NO.
A801

CASEWORK LEGEND



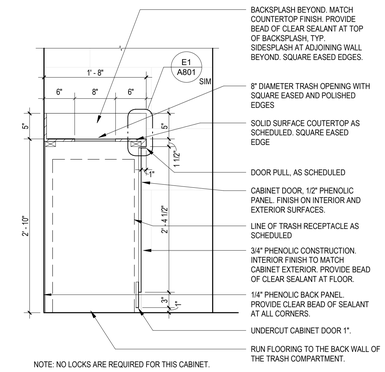


C1 A802 BASE CABINET WITH DOOR
1" = 1'-0"



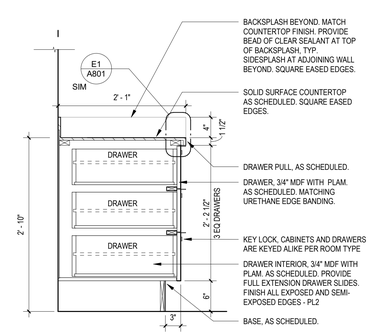
NOTE: NO LOCKS ARE REQUIRED FOR THIS CABINET.

C2 A802 BASE CABINET - TRASH DOOR
1" = 1'-0"



NOTE: NO LOCKS ARE REQUIRED FOR THIS CABINET.

C3 A802 BASE CABINET - TRASH DOOR (2)
1" = 1'-0"

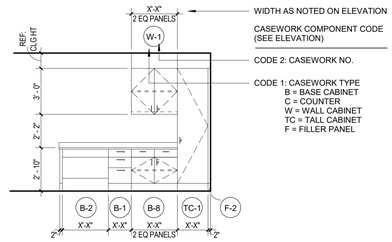


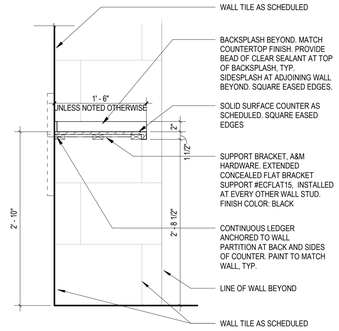
C4 A802 BASE CABINET - DRAWERS
1" = 1'-0"

CASEWORK CODING SYSTEM

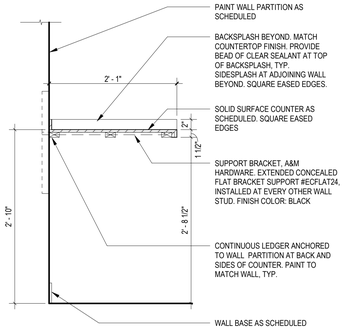
1. THE CASEWORK CODE SYMBOLS SPECIFYING THE PARTICULAR MODULES ARE SHOWN ON ELEVATIONS.
2. REFER TO INTERIOR ELEVATIONS FOR WIDTH AND BASE HEIGHTS OF CASEWORK.
3. AS SPECIFIED ALL CASEWORK TO RECEIVE A HIGH IMPACT PLASTIC LAMINATE FINISH ON ALL EXPOSED AND SEMI-EXPOSED, OUTSIDE AND INSIDE CABINET SURFACES.
4. A FINISHED END SUPPORT PANEL IS TO BE PROVIDED AT ANY OPEN ENDED UNIT. WALL BASE TO WRAP AROUND END PANEL.
5. BASIC CABINET CONSTRUCTION AND SHELVING TO BE 3/4" PLYWOOD.
6. VERIFY ALL LOCATIONS MOUNTING HEIGHTS AND CLEARANCES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
7. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
8. PROVIDE MINIMUM OF 1 1/2" WIDE SCRIBED FILLER PANELS OF THE SAME MATERIAL AND FINISH BETWEEN ALL CASEWORK AND ADJACENT PARTITIONS. FILLER PANEL SIZE SHALL NOT EXCEED 3".
9. SEE SPECIFICATIONS FOR CASEWORK CONSTRUCTION, FEATURES, FABRICATION AND INSTALLATION REQUIREMENTS.
10. CONTRACTOR SHALL PROVIDE IN-WALL BLOCKING AND SUPPORT AS REQUIRED, TO SECURELY INSTALL ALL CASEWORK.
11. ALIGN ALL SCREWS AND PLUGS VERTICALLY AND HORIZONTALLY WITHIN CABINET INTERIOR.
12. SEE ROOM FINISH SCHEDULE, INTERIOR ELEVATIONS AND SPECIFICATIONS FOR SPECIFIC CASEWORK FINISHES.
13. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONAL AND CLEARANCE REQUIREMENTS FOR PLUMBING AND ACCESSORIES INSTALLATION PRIOR TO STARTING CASEWORK AND COUNTERTOP FABRICATION.
14. SEE INTERIOR ELEVATIONS FOR BACKSPLASH AND SIDE SPLASH LOCATIONS.
15. FASCIA/ SOFFIT CASEWORK FINISH TO MATCH UPPER CABINETS UNLESS OTHERWISE NOTED. SEE ELEVATIONS AND ROOM FINISH SCHEDULE FOR FINISHES.
16. ALL DOORS AND DRAWERS TO RECEIVE PULL HARDWARE AS SCHEDULED, UNLESS NOTED OTHERWISE.
17. COUNTERTOP MATERIAL AND DETAILS VARY. SEE FINISH SCHEDULE AND DETAILS FOR SPECIFIC MATERIAL, NOSING AND BACKSPLASH INFORMATION.
18. SCRIBE COUNTERTOPS AND FINISHED END PANELS TO WALL SURFACE.
19. REFER TO SECTION DETAILS AND ELEVATIONS FOR LOCK LOCATIONS. LOCKABLE DOORS AND DRAWERS IN EACH ROOM SHALL BE KEYED ALIKE. NO TWO ROOMS SHALL HAVE LOCK SETS KEYED THE SAME.
20. FINISHES, EQUIPMENT, ACCESSORIES OR HARDWARE NOTED ON MILLWORK DETAILS TO BE AS SCHEDULED OR AS NOTED ON DRAWINGS.

CASEWORK CODING SYSTEM

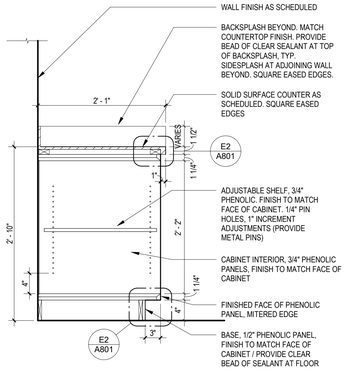




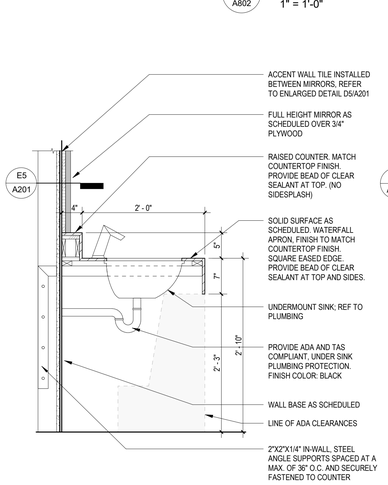
D1 A802 COUNTER - OPEN
1" = 1'-0"



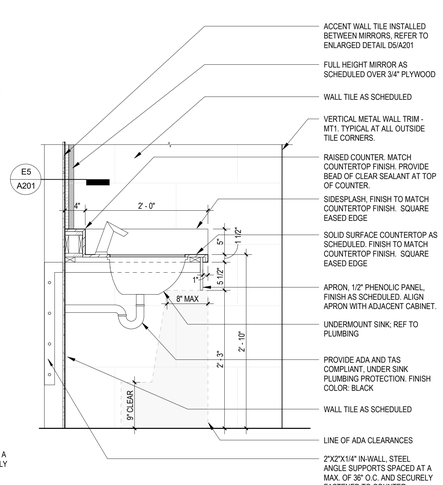
D2 A802 COUNTER - OPEN(2)
1" = 1'-0"



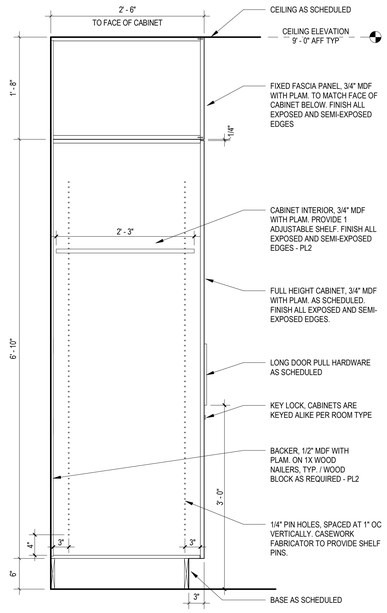
D3 A802 BASE CABINET - OPEN
1" = 1'-0"



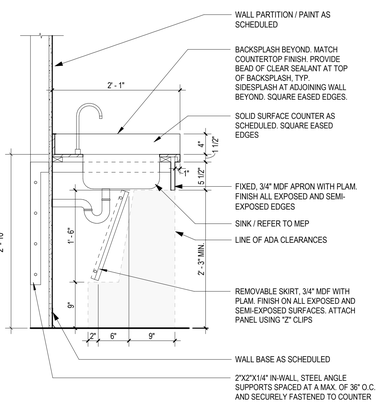
D4 A802 COUNTER - SINK WITH SHELF
1" = 1'-0"



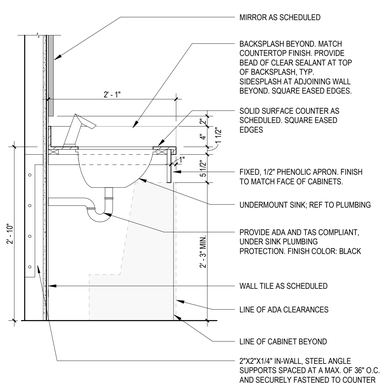
D5 A802 COUNTER AT SHARED LAVATORY
1" = 1'-0"



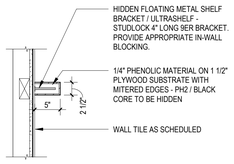
E6 A802 TALL CABINET
1" = 1'-0"



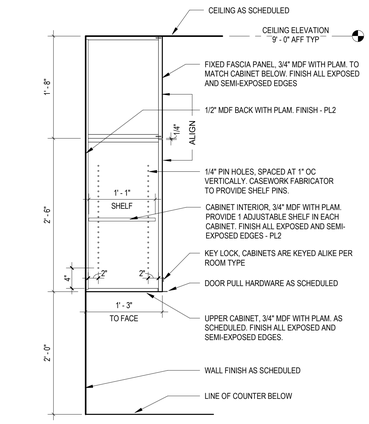
E1 A802 COUNTER AT ADA SINK
1" = 1'-0"



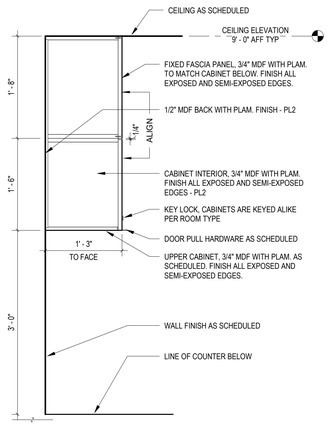
E2 A802 COUNTER AT SHOWER SINK
1" = 1'-0"



E3 A802 SHELF AT URINAL
1" = 1'-0"



E4 A802 UPPER CABINET
1" = 1'-0"



E5 A802 UPPER CABINET(2)
1" = 1'-0"

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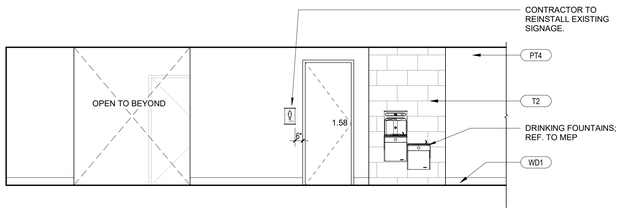
REGISTERED ARCHITECT BRYANT A. HARMENCIC 13800 STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

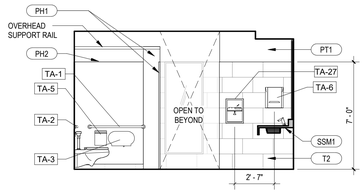
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
MILLWORK DETAILS

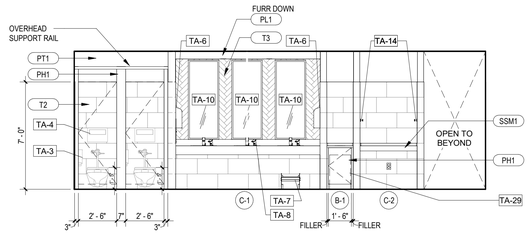
SHEET NO.
A802



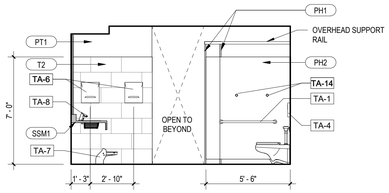
A1 A820 CORRIDOR (1.34) - WEST
1/4" = 1'-0"



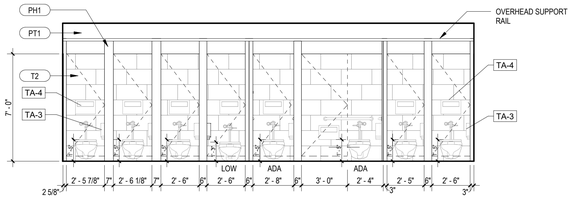
A3 A820 WOMEN'S (1.58) - N
1/4" = 1'-0"



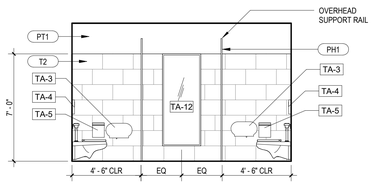
A4 A820 WOMEN'S (1.58) - E
1/4" = 1'-0"



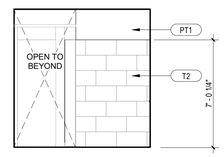
A5 A820 WOMEN'S (1.58) - S
1/4" = 1'-0"



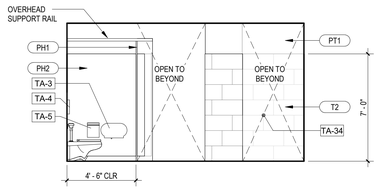
B1 A820 WOMEN'S (1.58) - W
1/4" = 1'-0"



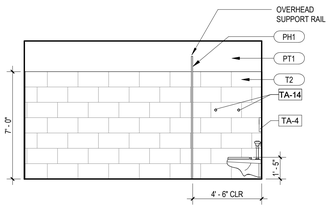
B2 A820 WOMEN'S AT PARTITIONS (1.58) - N
1/4" = 1'-0"



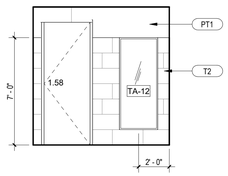
B4 A820 WOMEN'S AT ENTRY (1.58) - W
1/4" = 1'-0"



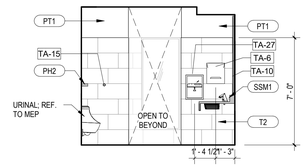
B5 A820 WOMEN'S AT ENTRY (1.58) - N
1/4" = 1'-0"



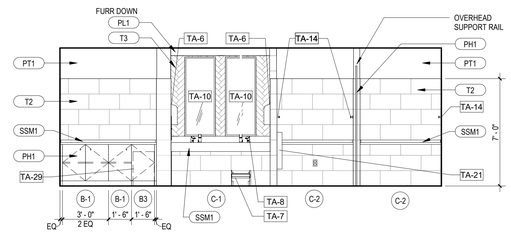
C1 A820 WOMEN'S AT ENTRY (1.58) - S
1/4" = 1'-0"



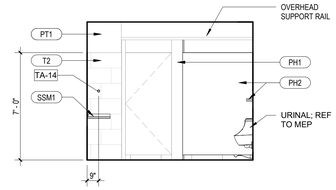
C2 A820 WOMEN'S AT ENTRY (1.58) - E
1/4" = 1'-0"



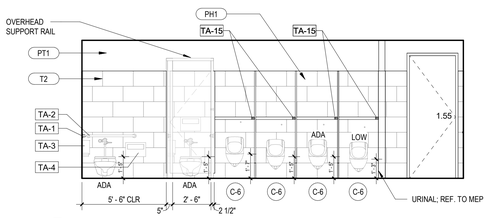
C3 A820 MEN'S (1.55) - N
1/4" = 1'-0"



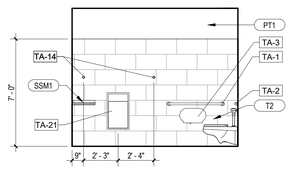
C4 A820 MEN'S (1.55) - E
1/4" = 1'-0"



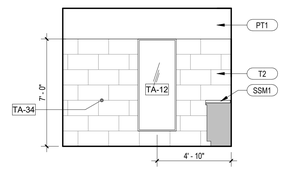
C6 A820 MEN'S (1.55) - S
1/4" = 1'-0"



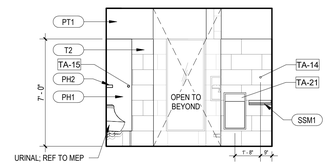
D1 A820 MEN'S (1.55) - W
1/4" = 1'-0"



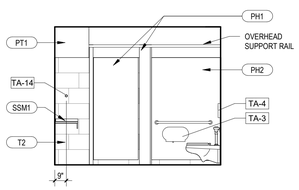
D2 A820 MEN'S AT PARTITIONS (1.55) - S
1/4" = 1'-0"



D3 A820 MEN'S AT ENTRY (1.55) - N
1/4" = 1'-0"



D5 A820 MEN'S AT CHANGING COUNTER (1.55) - N
1/4" = 1'-0"



E1 A820 MEN'S STALL (1.55) - E
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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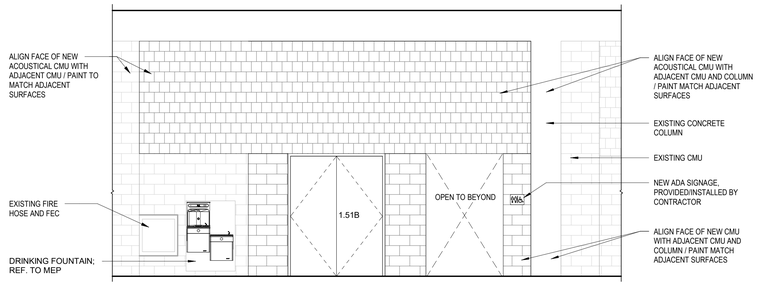
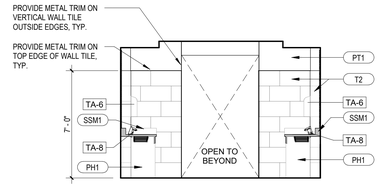
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
INTERIOR ELEVATIONS - SOUTH

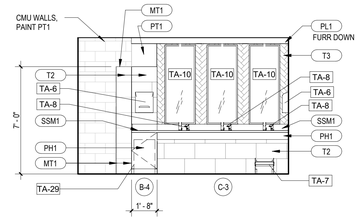
SHEET NO.
A820



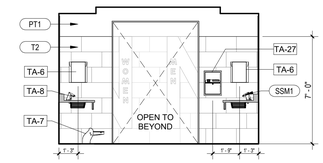
A1 A821 EXHIBIT HALL (1.62) - SOUTH
1/4" = 1'-0"



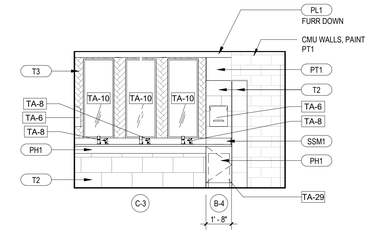
A3 A821 LAVATORY (1.51) - N
1/4" = 1'-0"



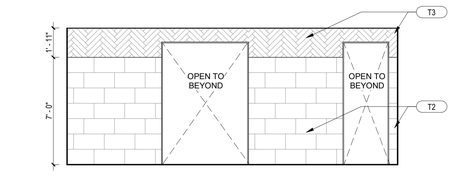
A4 A821 LAVATORY (1.51) - E
1/4" = 1'-0"



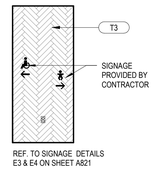
A5 A821 LAVATORY (1.51) - S
1/4" = 1'-0"



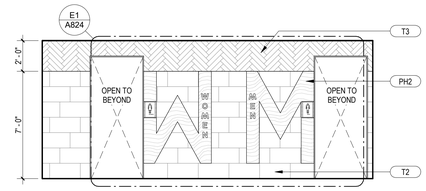
A6 A821 LAVATORY (1.51) - W
1/4" = 1'-0"



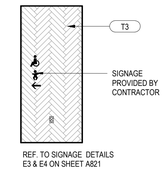
B1 A821 VESTIBULE (1.51A) - N
1/4" = 1'-0"



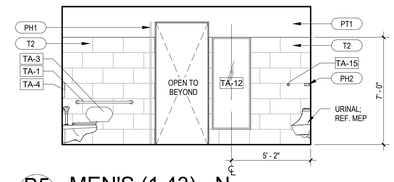
B2 A821 VESTIBULE (1.51A) - E
1/4" = 1'-0"



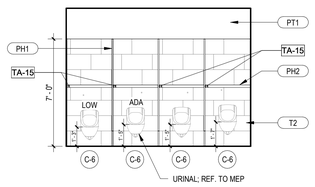
B3 A821 VESTIBULE (1.51A) - S
1/4" = 1'-0"



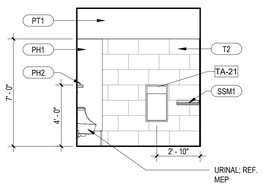
B4 A821 VESTIBULE (1.51A) - W
1/4" = 1'-0"



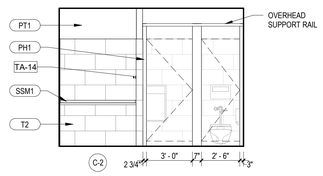
B5 A821 MEN'S (1.43) - N
1/4" = 1'-0"



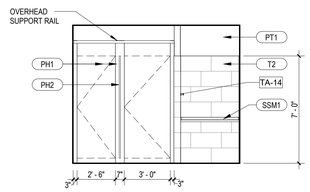
C1 A821 MEN'S (1.43) - E
1/4" = 1'-0"



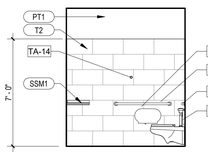
C2 A821 MEN'S (1.43) - S
1/4" = 1'-0"



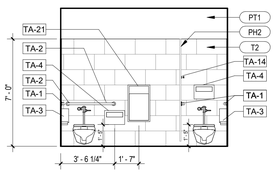
C3 A821 MEN'S (1.43) - W
1/4" = 1'-0"



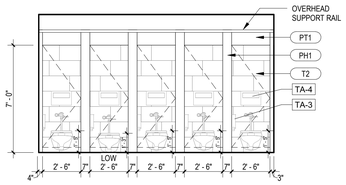
C4 A821 MEN'S AT ADA (1.43) - N
1/4" = 1'-0"



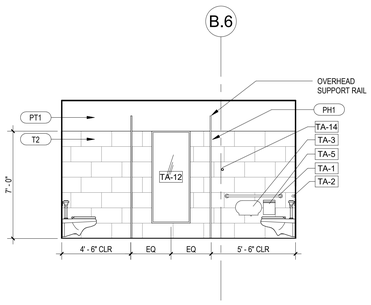
C5 A821 MEN'S AT ADA (1.43) - E
1/4" = 1'-0"



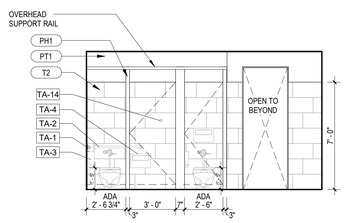
C6 A821 MEN'S AT ADA (1.43) - S
1/4" = 1'-0"



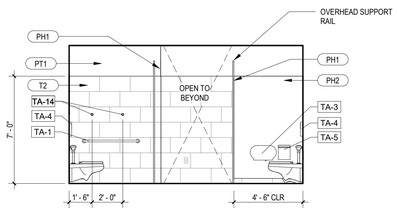
D1 A821 WOMEN'S (1.42) - N
1/4" = 1'-0"



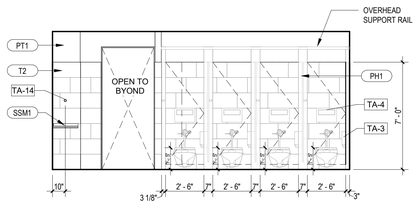
D2 A821 WOMEN'S (1.42) - E
1/4" = 1'-0"



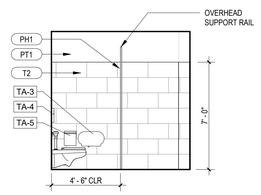
D3 A821 WOMEN'S (1.42) - S
1/4" = 1'-0"



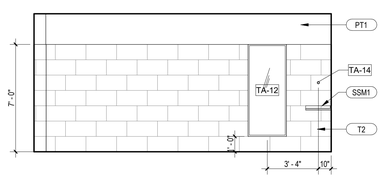
D4 A821 WOMEN'S (1.42) - W
1/4" = 1'-0"



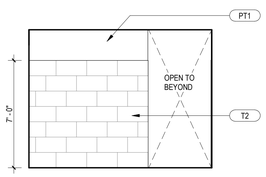
D5 A821 WOMEN'S (1.42A) - N
1/4" = 1'-0"



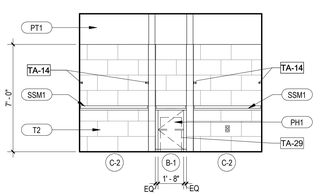
D6 A821 WOMEN'S (1.42A) - E
1/4" = 1'-0"



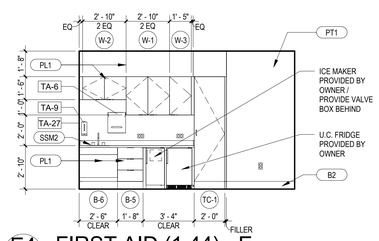
E1 A821 WOMEN'S (1.42A) - S
1/4" = 1'-0"



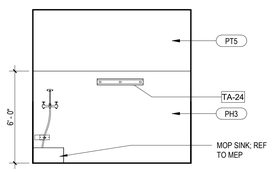
E2 A821 CHANGING COUNTER (1.42A) - E
1/4" = 1'-0"



E3 A821 CHANGING COUNTER (1.42A) - W
1/4" = 1'-0"



E4 A821 FIRST AID (1.44) - E
1/4" = 1'-0"



E5 A821 EXHIBIT HALL CLOS. (1.62) - S
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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6/6/2022

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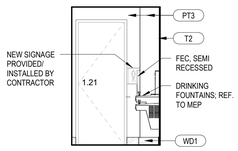
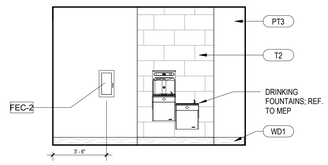
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
INTERIOR ELEVATIONS - EAST

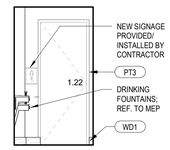
SHEET NO.
A821



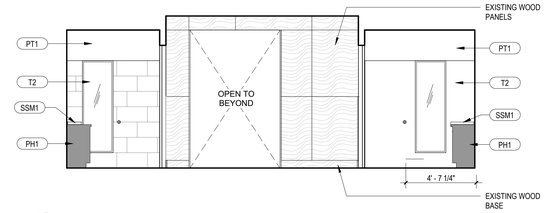
A1 A822 VESTIBULE (1.67) - N
1/4" = 1'-0"



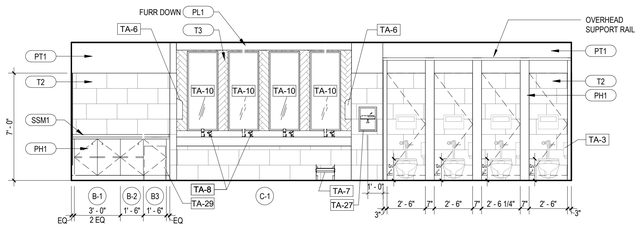
A2 A822 VESTIBULE (1.67) - E
1/4" = 1'-0"



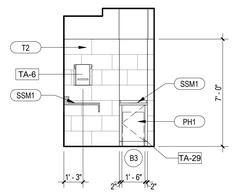
A3 A822 VESTIBULE (1.67) - S
1/4" = 1'-0"



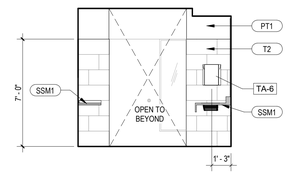
A4 A822 VESTIBULE (1.67) - W
1/4" = 1'-0"



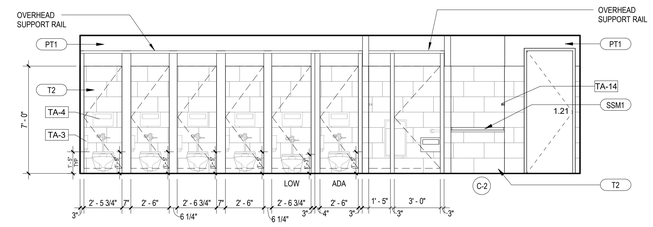
B1 A822 WOMEN'S (1.21) - N
1/4" = 1'-0"



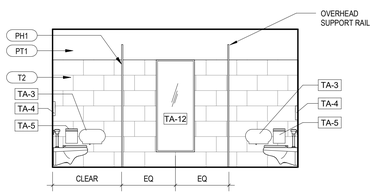
B2 A822 WOMEN'S (1.21) - E
1/4" = 1'-0"



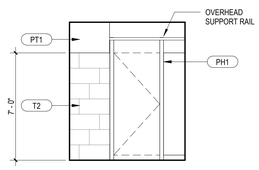
B3 A822 WOMEN'S (1.21) - W
1/4" = 1'-0"



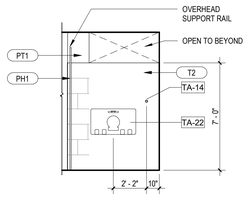
B4 A822 WOMEN'S (1.21) - S
1/4" = 1'-0"



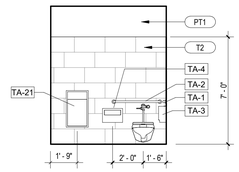
C1 A822 WOMEN'S AT STALLS (1.21) - E
1/4" = 1'-0"



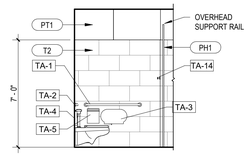
C2 A822 WOMEN'S ADA STALL (1.21) - N
1/4" = 1'-0"



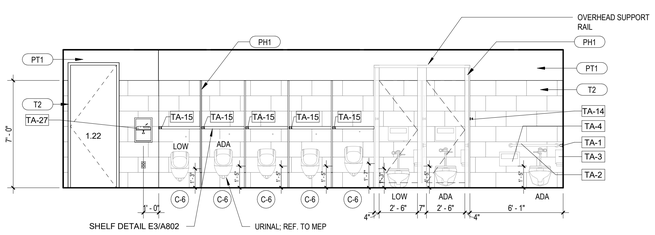
C3 A822 WOMEN'S ADA STALL (1.21) - E
1/4" = 1'-0"



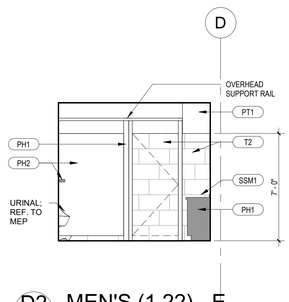
C4 A822 WOMEN'S ADA STALL (1.21) - S
1/4" = 1'-0"



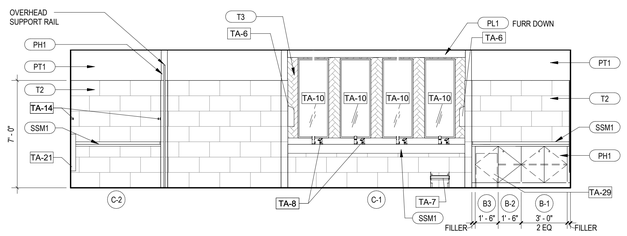
C6 A822 WOMEN'S ADA STALL (1.21) - W
1/4" = 1'-0"



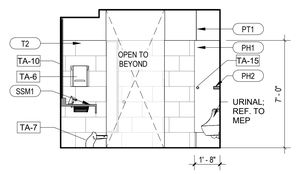
D1 A822 MEN'S (1.22) - N
1/4" = 1'-0"



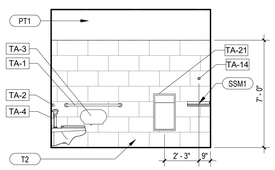
D2 A822 MEN'S (1.22) - E
1/4" = 1'-0"



D3 A822 MEN'S (1.22) - S
1/4" = 1'-0"



D5 A822 MEN'S (1.22) - W
1/4" = 1'-0"



E1 A822 MEN'S AT ADA STALL (1.22) - E
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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6/6/2022

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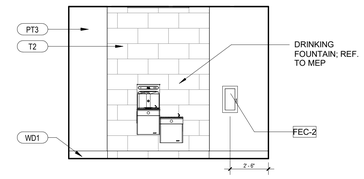
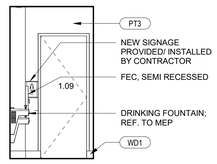
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
INTERIOR ELEVATIONS - NORTH

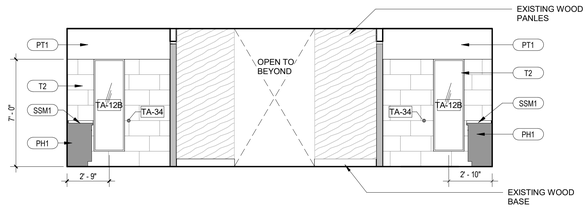
SHEET NO.
A822



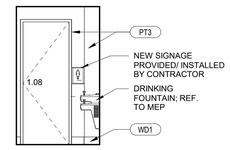
A1 A823 VESTIBULE (1.66) - N
1/4" = 1'-0"



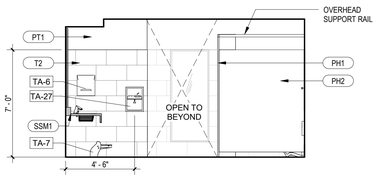
A2 A823 VESTIBULE (1.66) - E
1/4" = 1'-0"



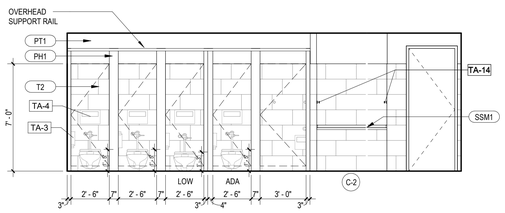
A3 A823 VESTIBULE (1.66) - S
1/4" = 1'-0"



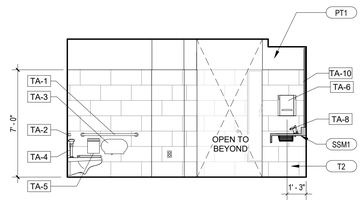
A4 A823 VESTIBULE (1.66) - W
1/4" = 1'-0"



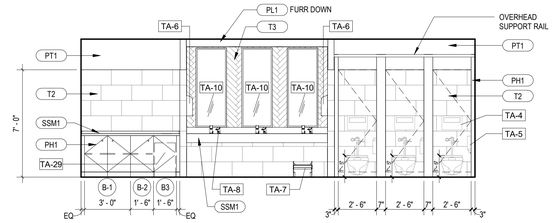
B1 A823 WOMEN'S (1.08) - N
1/4" = 1'-0"



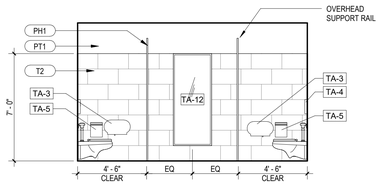
B2 A823 WOMEN'S (1.08) - E
1/4" = 1'-0"



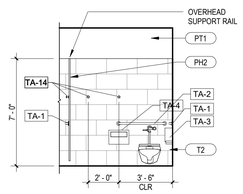
B3 A823 WOMEN'S (1.08) - S
1/4" = 1'-0"



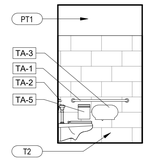
B4 A823 WOMEN'S (1.08) - W
1/4" = 1'-0"



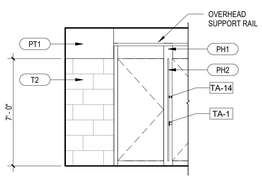
C1 A823 WOMEN'S AT STALLS (1.08) - N
1/4" = 1'-0"



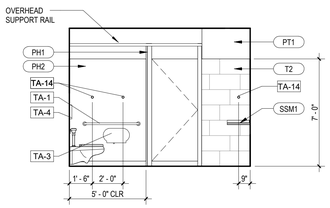
C2 A823 WOMEN'S AT ADA (1.08) - E
1/4" = 1'-0"



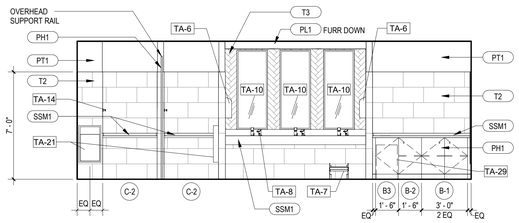
C3 A823 WOMEN'S AT ADA (1.08) - S
1/4" = 1'-0"



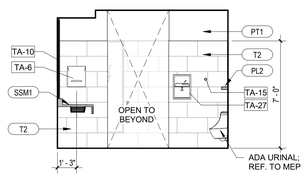
C4 A823 WOMEN'S AT ADA (1.08) - W
1/4" = 1'-0"



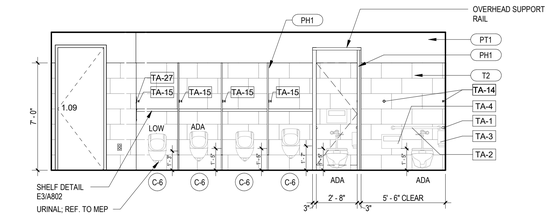
D1 A823 MEN'S (1.09) - N
1/4" = 1'-0"



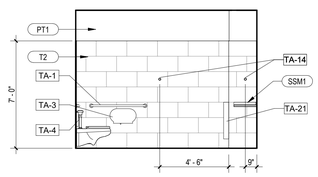
D2 A823 MEN'S (1.09) - E
1/4" = 1'-0"



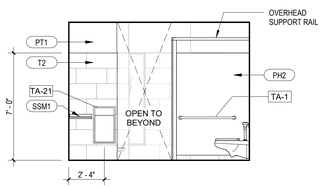
D3 A823 MEN'S (1.09) - S
1/4" = 1'-0"



D4 A823 MEN'S (1.09) - W
1/4" = 1'-0"



D6 A823 MEN'S AT ADA STALL (1.09) - N
1/4" = 1'-0"



E1 A823 MEN'S AT CHANGING COUNTER (1.09) - S
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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REGISTERED ARCHITECT BRANT A. HARKENRIDER 13800 STATE OF TEXAS
6/6/2022

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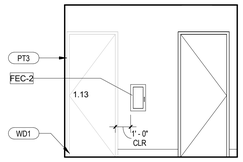
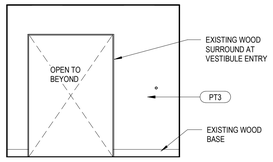
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
INTERIOR ELEVATIONS - WEST

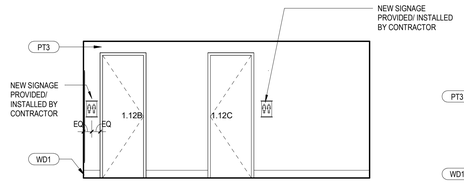
SHEET NO.
A823



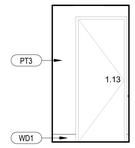
A1 A824 VESTIBULE (1.13A) - N
1/4" = 1'-0"



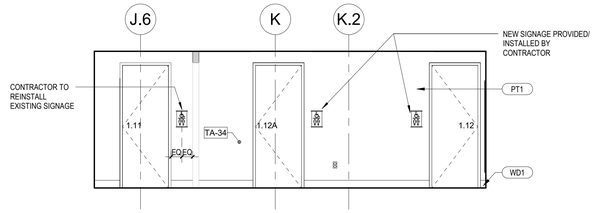
A2 A824 VESTIBULE (1.13A) - S
1/4" = 1'-0"



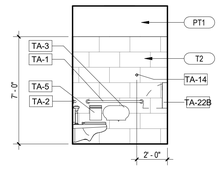
A3 A824 PASSAGE (1.13) - E
1/4" = 1'-0"



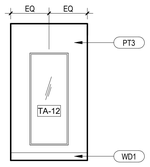
A4 A824 PASSAGE (1.13) - S
1/4" = 1'-0"



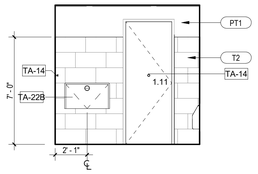
A5 A824 PASSAGE (1.13) - W
1/4" = 1'-0"



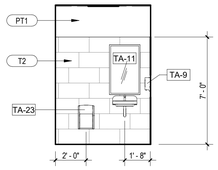
A6 A824 FAMILY T/R (1.11) - N
1/4" = 1'-0"



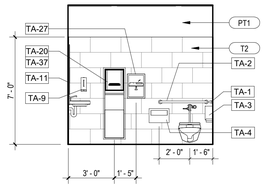
B1 A824 PASSAGE (1.13) - N
1/4" = 1'-0"



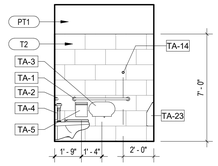
B2 A824 FAMILY T/R (1.11) - E
1/4" = 1'-0"



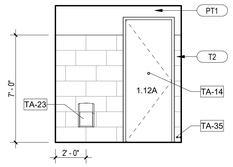
B3 A824 FAMILY T/R (1.11) - S
1/4" = 1'-0"



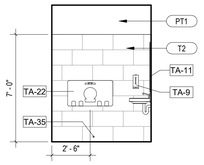
B4 A824 FAMILY T/R (1.11) - W
1/4" = 1'-0"



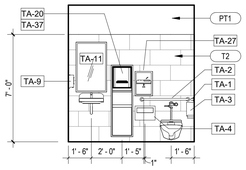
B5 A824 FAMILY T/R (1.12A) - N
1/4" = 1'-0"



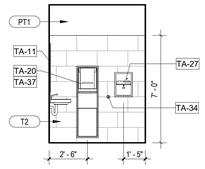
B6 A824 FAMILY T/R (1.12A) - E
1/4" = 1'-0"



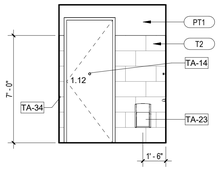
C1 A824 FAMILY T/R (1.12A) - S
1/4" = 1'-0"



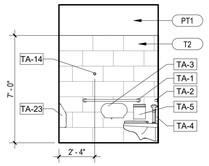
C2 A824 FAMILY T/R (1.12A) - W
1/4" = 1'-0"



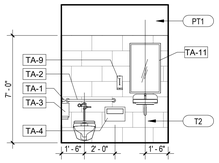
C3 A824 T/R (1.12) - N
1/4" = 1'-0"



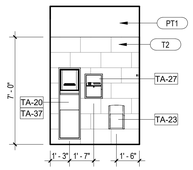
C4 A824 T/R (1.12) - E
1/4" = 1'-0"



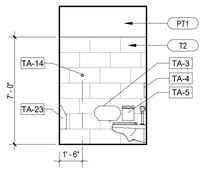
C5 A824 T/R (1.12) - S
1/4" = 1'-0"



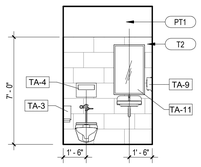
C6 A824 T/R (1.12) - W
1/4" = 1'-0"



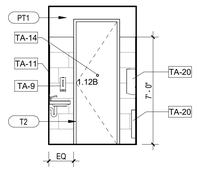
D1 A824 T/R (1.12B) - N
1/4" = 1'-0"



D2 A824 T/R (1.12B) - E
1/4" = 1'-0"



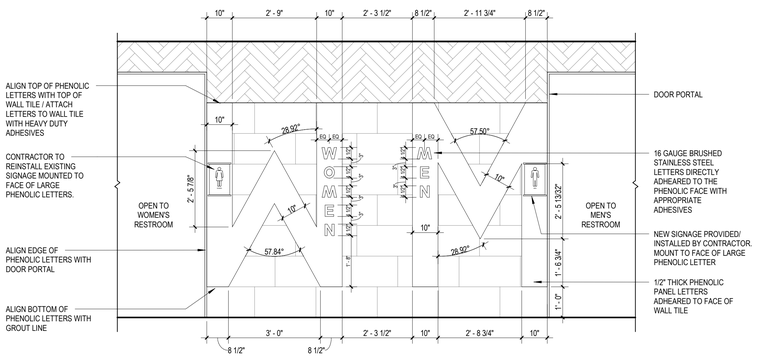
D3 A824 T/R (1.12B) - S
1/4" = 1'-0"



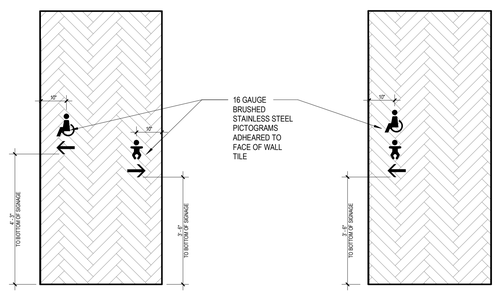
D4 A824 T/R (1.12B) - W
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103



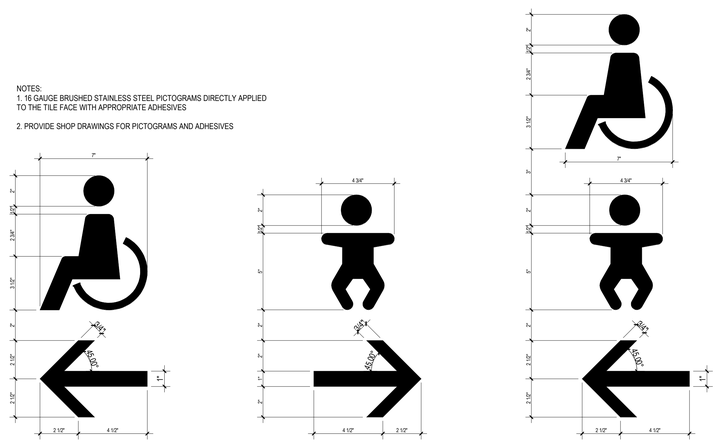
E1 A824 ENLARGED VESTIBULE (1.51A) - S
1/2" = 1'-0"



E3 A824 ENLARGED VESTIBULE (1.51A) - E & W
1/2" = 1'-0"

NOTES:
1. 16 GAUGE BRUSHED STAINLESS STEEL PICTOGRAMS DIRECTLY APPLIED TO THE TILE FACE WITH APPROPRIATE ADHESIVES

2. PROVIDE SHOP DRAWINGS FOR PICTOGRAMS AND ADHESIVES



E4 A824 ADA SIGNAGE
3" = 1'-0"

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REGISTERED ARCHITECT
BRIANT A. HARNEC
13800
STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
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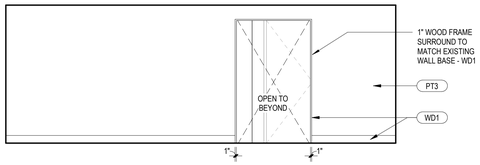
900 BARTON SPRINGS RD, AUSTIN, TX 78704

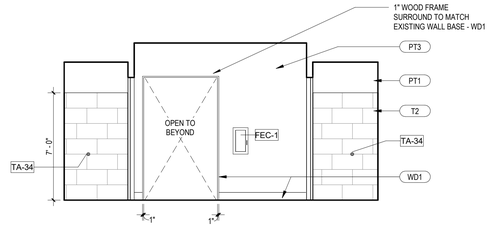
Drawn NH
Checked HM
Date 06.06.2022
Project No. 20027
Revisions

SHEET TITLE
INTERIOR ELEVATIONS - FAMILY

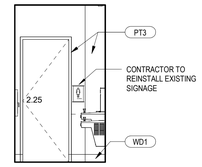
SHEET NO.
A824



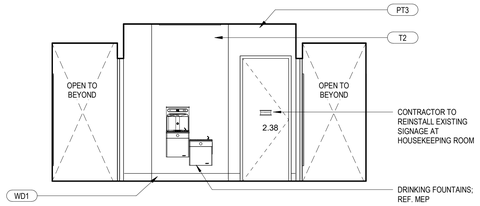
A1 A825 CORRIDOR (2.40) - S
1/4" = 1'-0"



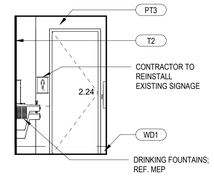
A3 A825 VESTIBULE (1.36) - N
1/4" = 1'-0"



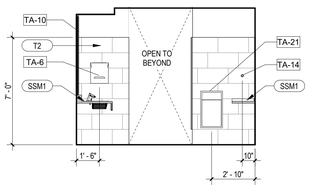
A4 A825 VESTIBULE (1.36) - E
1/4" = 1'-0"



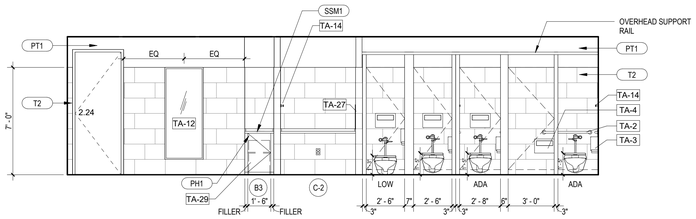
A5 A825 VESTIBULE (1.36) - S
1/4" = 1'-0"



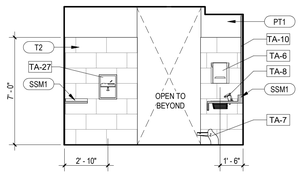
A6 A825 VESTIBULE (1.36) - W
1/4" = 1'-0"



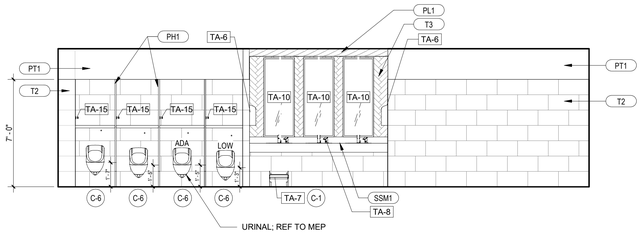
B1 A825 MEN'S (2.24) - N
1/4" = 1'-0"



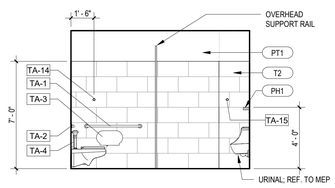
B2 A825 MEN'S (2.24) - E
1/4" = 1'-0"



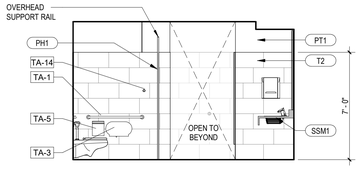
B4 A825 MEN'S (2.24) - S
1/4" = 1'-0"



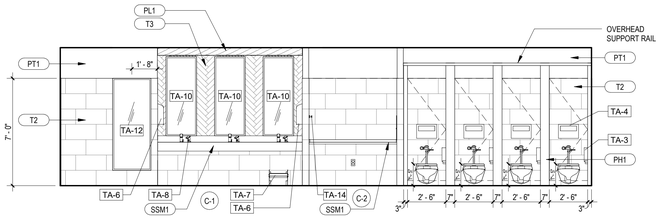
B5 A825 MEN'S (2.24) - W
1/4" = 1'-0"



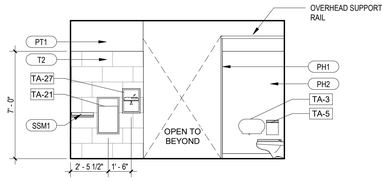
C1 A825 MEN'S AT STALLS (2.24) - S
1/4" = 1'-0"



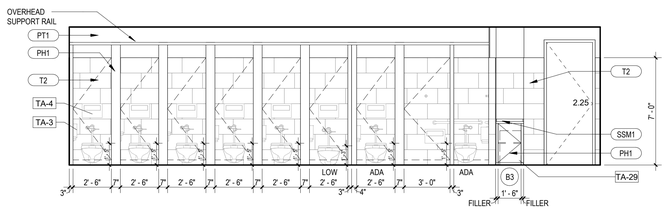
C2 A825 WOMEN'S (2.25) - N
1/4" = 1'-0"



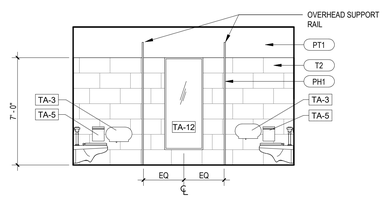
C3 A825 WOMEN'S (2.25) - E
1/4" = 1'-0"



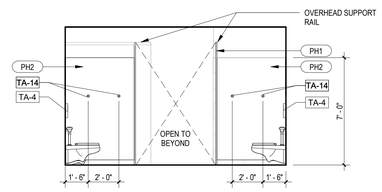
C5 A825 WOMEN'S (2.25) - S
1/4" = 1'-0"



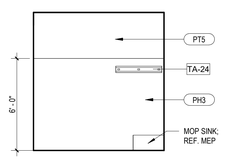
D1 A825 WOMEN'S (2.25) - W
1/4" = 1'-0"



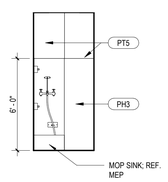
D3 A825 WOMEN'S AT STALLS (2.25) S
1/4" = 1'-0"



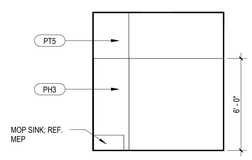
D4 A825 WOMEN'S AT STALLS (2.25) N
1/4" = 1'-0"



E1 A825 HSKP (2.38) - E
1/4" = 1'-0"



E2 A825 HSKP (2.38) - S
1/4" = 1'-0"



E3 A825 HSKP (2.38) - W
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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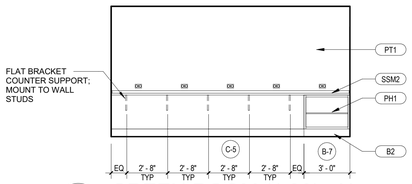
REGISTERED ARCHITECT BRIANT A. HARKENCE 13200 STATE OF TEXAS
6/6/2022

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

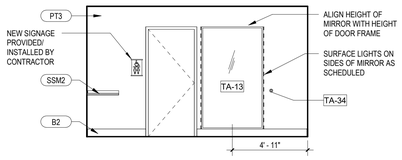
Drawn	NH
Checked	HM
Date	06.06.2022
Project No.	20027
Revisions	

SHEET TITLE
LEVEL 2 - INTERIOR ELEVATIONS - NORTH

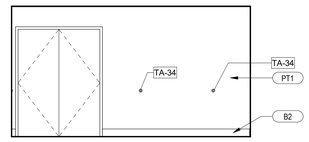
SHEET NO.
A825



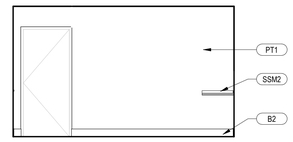
A1 A826 GREEN ROOM (1.30) - N
1/4" = 1'-0"



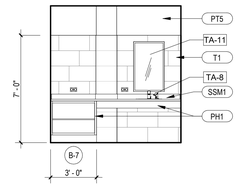
A2 A826 GREEN ROOM (1.30) - E
1/4" = 1'-0"



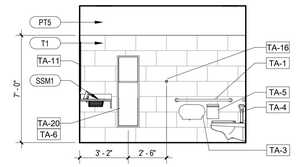
A3 A826 GREEN ROOM (1.30) - S
1/4" = 1'-0"



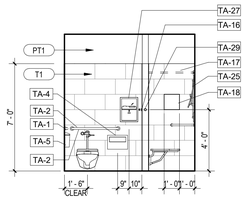
A4 A826 GREEN ROOM (1.30) - W
1/4" = 1'-0"



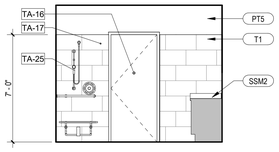
A5 A826 T/R (1.28) - N
1/4" = 1'-0"



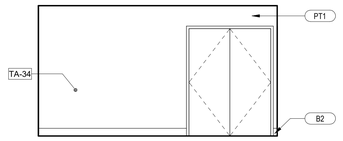
A6 A826 T/R (1.28) - E
1/4" = 1'-0"



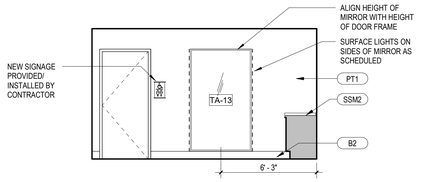
B1 A826 T/R (1.28) - S
1/4" = 1'-0"



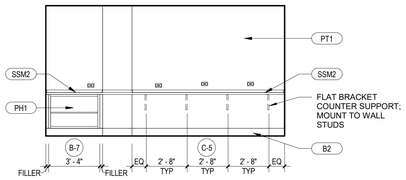
B2 A826 T/R (1.28) - W
1/4" = 1'-0"



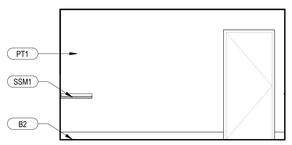
B3 A826 GREEN ROOM (1.31) - N
1/4" = 1'-0"



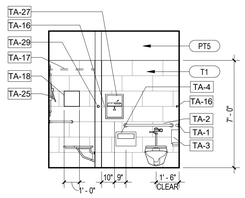
B4 A826 GREEN ROOM (1.31) - E
1/4" = 1'-0"



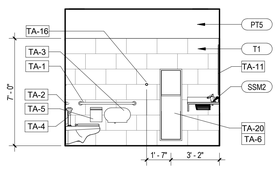
B5 A826 GREEN ROOM (1.31) - S
1/4" = 1'-0"



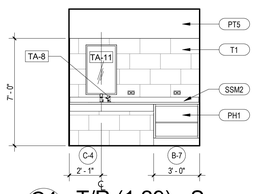
C1 A826 GREEN ROOM (1.31) - W
1/4" = 1'-0"



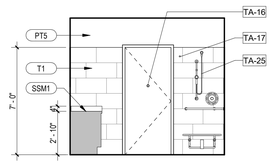
C2 A826 T/R (1.29) - N
1/4" = 1'-0"



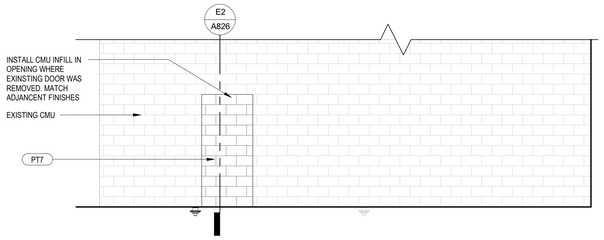
C3 A826 T/R (1.29) - E
1/4" = 1'-0"



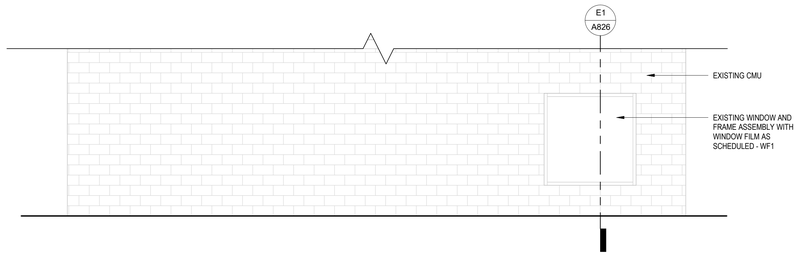
C4 A826 T/R (1.29) - S
1/4" = 1'-0"



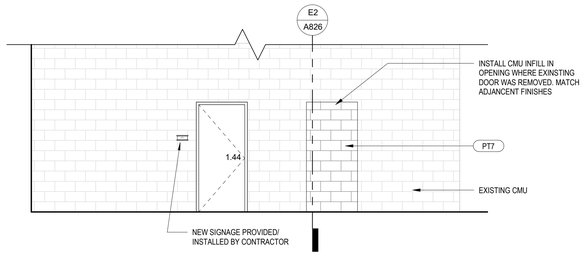
C5 A826 T/R (1.29) - W
1/4" = 1'-0"



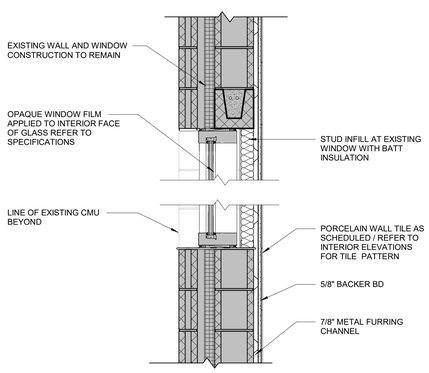
D1 A826 EXTERIOR ELEVATION: EAST RESTROOM - N
1/4" = 1'-0"



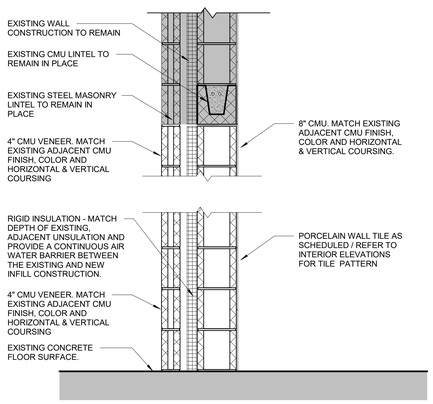
D3 A826 EXTERIOR ELEVATION: EAST RESTROOM - E
1/4" = 1'-0"



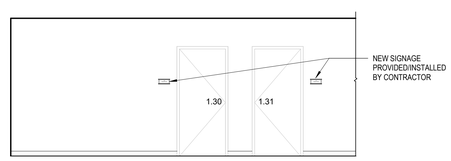
D5 A826 EXTERIOR ELEVATION: EAST RESTROOM - S
1/4" = 1'-0"



E1 A826 WALL SECTION@WINDOW INFILL
1" = 1'-0"



E2 A826 WALL SECTION@NEW CMU
1" = 1'-0"



E4 A826 CORRIDOR (1.32) - N
1/4" = 1'-0"

ELEVATION GENERAL NOTES

1. REFER TO THE FINISH LEGEND ON SHEET A801 FOR MORE DETAILED DESCRIPTIONS CEILING TYPES AND MATERIALS.
2. REFER TO TOILET ACCESSORIES SCHEDULE ON SHEET I103

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6/6/2022

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Project No.	20027
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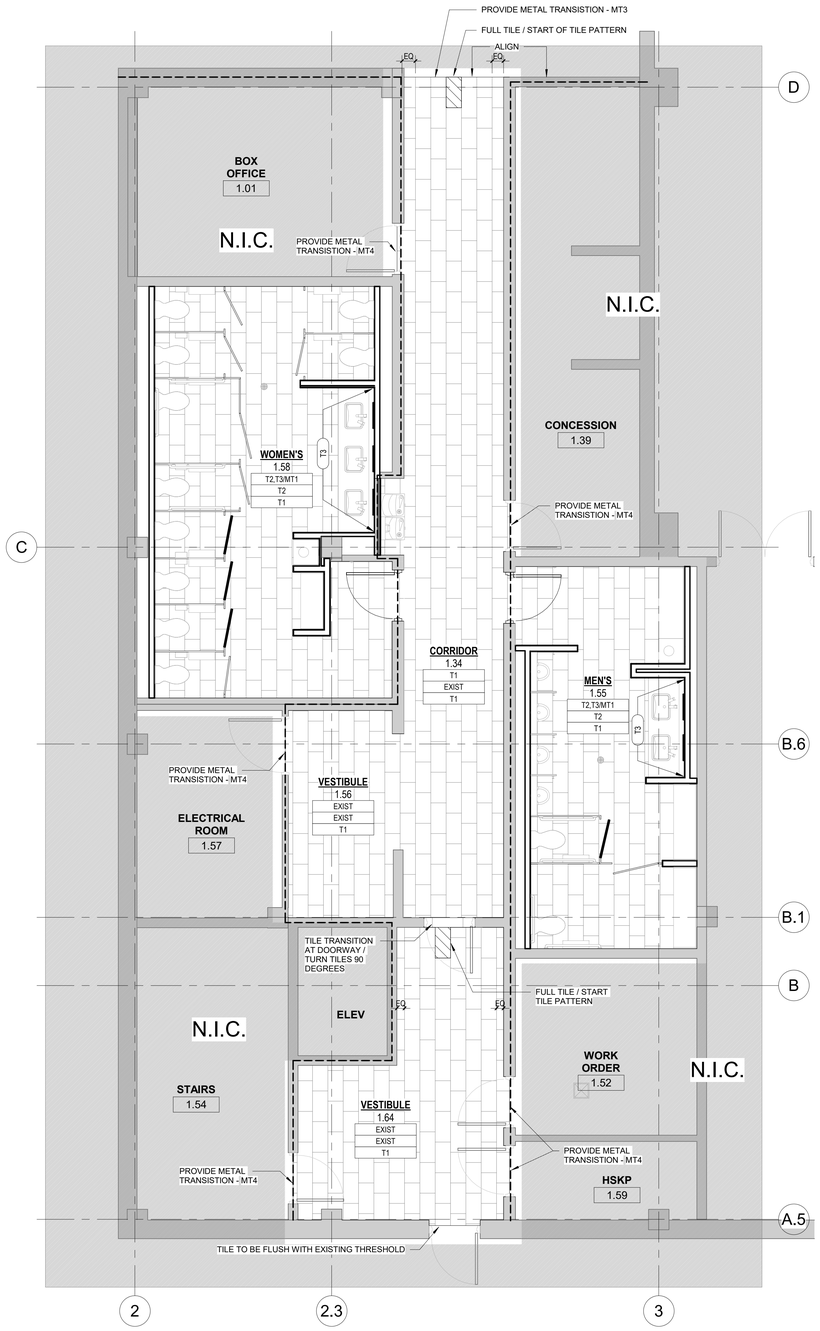
SHEET TITLE
INT. ELEVATIONS - GREEN ROOM & EXTERIOR ELEV.

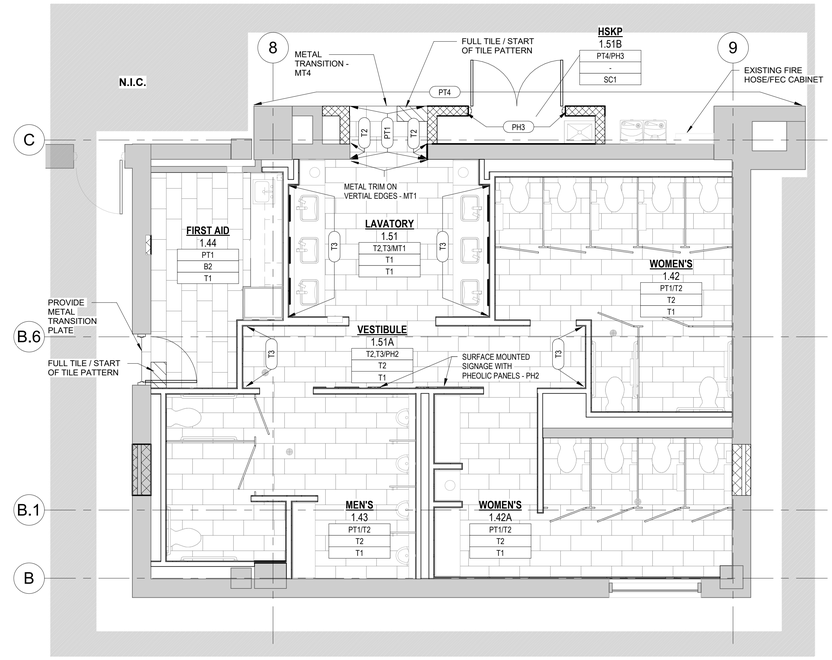
SHEET NO.
A826



D1 A901 LEVEL 1: ENLARGED FINISH PLAN - SOUTH RESTROOMS

1/4" = 1'-0"

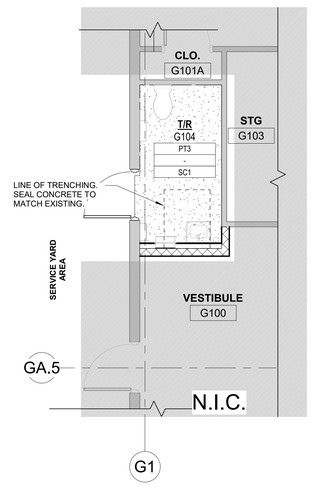
NORTH PLAN N.



B3 A901 LEVEL 1: ENLARGED FINISH PLAN - EAST RESTROOMS

1/4" = 1'-0"

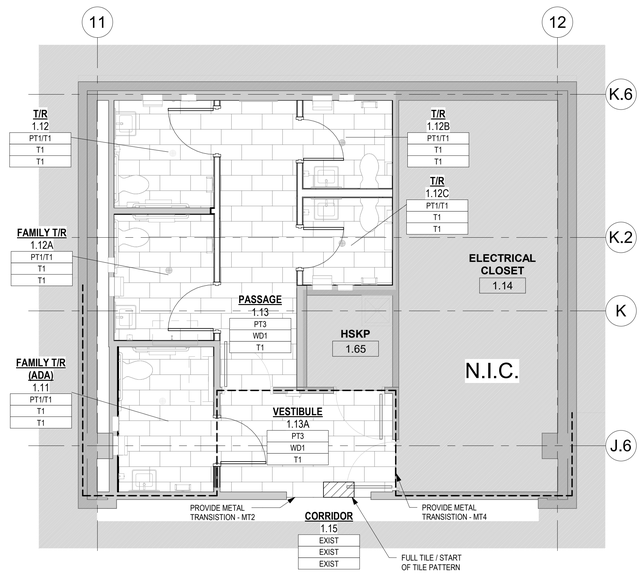
NORTH PLAN N.



D3 A901 LEVEL 1: ENLARGED FINISH PLAN - GARAGE

1/4" = 1'-0"

NORTH PLAN N.



D5 A901 LEVEL 1: ENLARGED FINISH PLAN - WEST FAMILY RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL FINISH PLAN NOTES:

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
2. ALL FLOOR FINISHES TO TRANSITION AT THE MIDPOINT OF THE DOOR FRAME OR UNDER THE MIDPOINT OF THE DOOR. SEE SHEET A801 FOR FLOOR TRANSITION DETAILS.
3. SEE SHEET I103 FOR TOILET ROOM ACCESSORIES
4. ALL GENERAL WALL TILES (12X24 SIZE) TO RECEIVE VERTICAL METAL TRIM AT OUTSIDE CORNERS AND HORIZONTAL METAL TRIM AT 7'-0" AFF. SEE SHEET A801 FOR TILE TRIM DETAILS.
5. FLOOR TILE TO RUN CONTINUOUS UNDER COUNTERS AND CASEWORK.

FINISH SYMBOL LEGEND

NAME — ROOM NAME
101 — ROOM NUMBER
WALL — WALL FINISH(ES)
BASE — BASE FINISH(ES)
FLOOR — FLOOR FINISH(ES)
LOCATION OF EXISTING 1 HR FIRE WALL

FLOOR PATTERN LEGEND

PORCELAIN TILE - T1
PORCELAIN TILE - T4
SEALED CONCRETE - SC1

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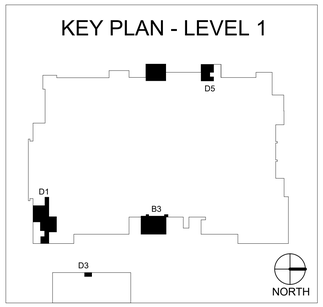
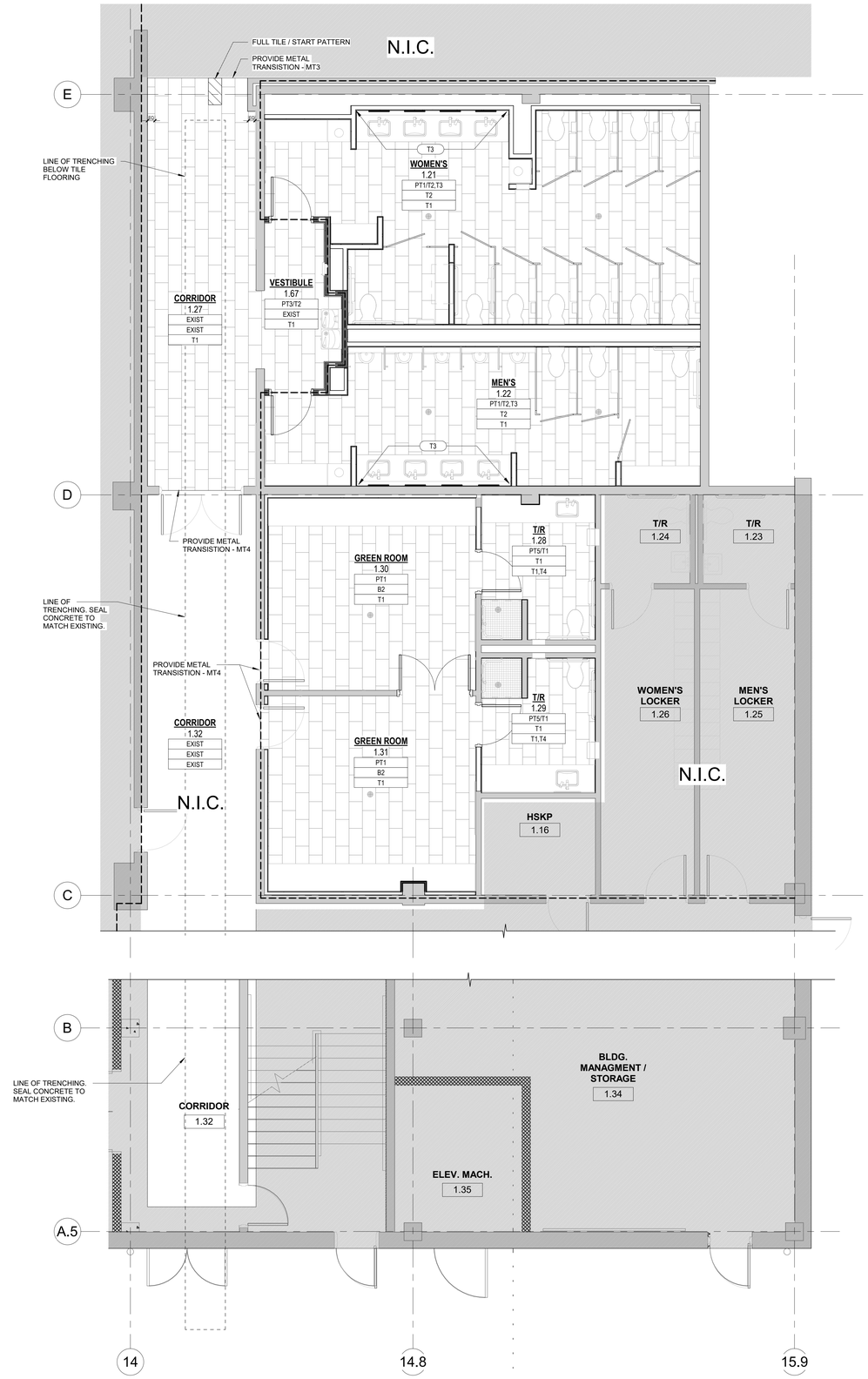
KEY PLAN - LEVEL 1



SHEET TITLE
LEVEL 1 - ENLARGED FINISH PLANS

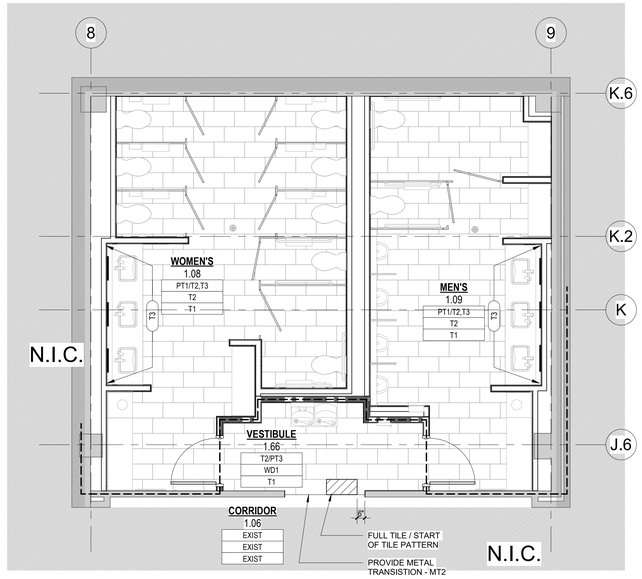
SHEET NO.
A901



E1 A902 LEVEL 1: ENLARGED FINISH PLAN - NORTH RESTROOMS

1/4" = 1'-0"

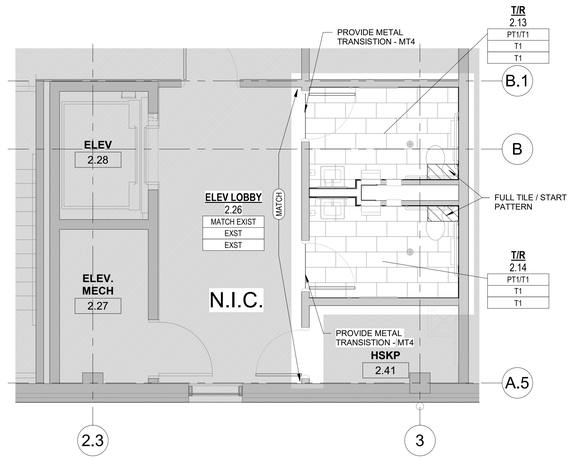
NORTH PLAN N.



B4 A902 LEVEL 1: ENLARGED FINISH PLAN - WEST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



D4 A902 LEVEL 2: ENLARGED FINISH PLAN - STAFF RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL FINISH PLAN NOTES:

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
2. ALL FLOOR FINISHES TO TRANSITION AT THE MIDPOINT OF THE DOOR FRAME OR UNDER THE MIDPOINT OF THE DOOR. SEE SHEET A801 FOR FLOOR TRANSITION DETAILS.
3. SEE SHEET I103 FOR TOILET ROOM ACCESSORIES
4. ALL GENERAL WALL TILES (12X24 SIZE) TO RECEIVE VERTICAL METAL TRIM AT OUTSIDE CORNERS AND HORIZONTAL METAL TRIM AT 7'-0" AFF. SEE SHEET A801 FOR TILE TRIM DETAILS.
5. FLOOR TILE TO RUN CONTINUOUS UNDER COUNTERS AND CASEWORK.

FINISH SYMBOL LEGEND

NAME — ROOM NAME
101 — ROOM NUMBER
WALL — WALL FINISH(ES)
BASE — BASE FINISH(ES)
FLOOR — FLOOR FINISH(ES)
LOCATION OF EXISTING 1 HR FIRE WALL

FLOOR PATTERN LEGEND

PORCELAIN TILE - T1
PORCELAIN TILE - T4
SEALED CONCRETE - SC1

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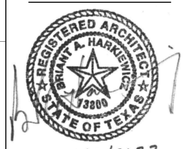
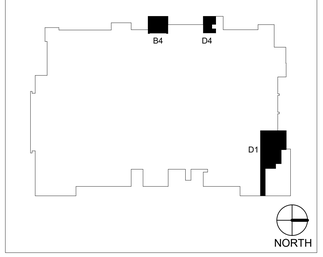
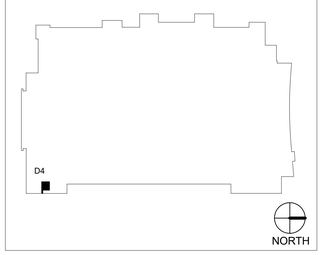


KEY PLAN - LEVEL 1



KEY PLAN - LEVEL 2



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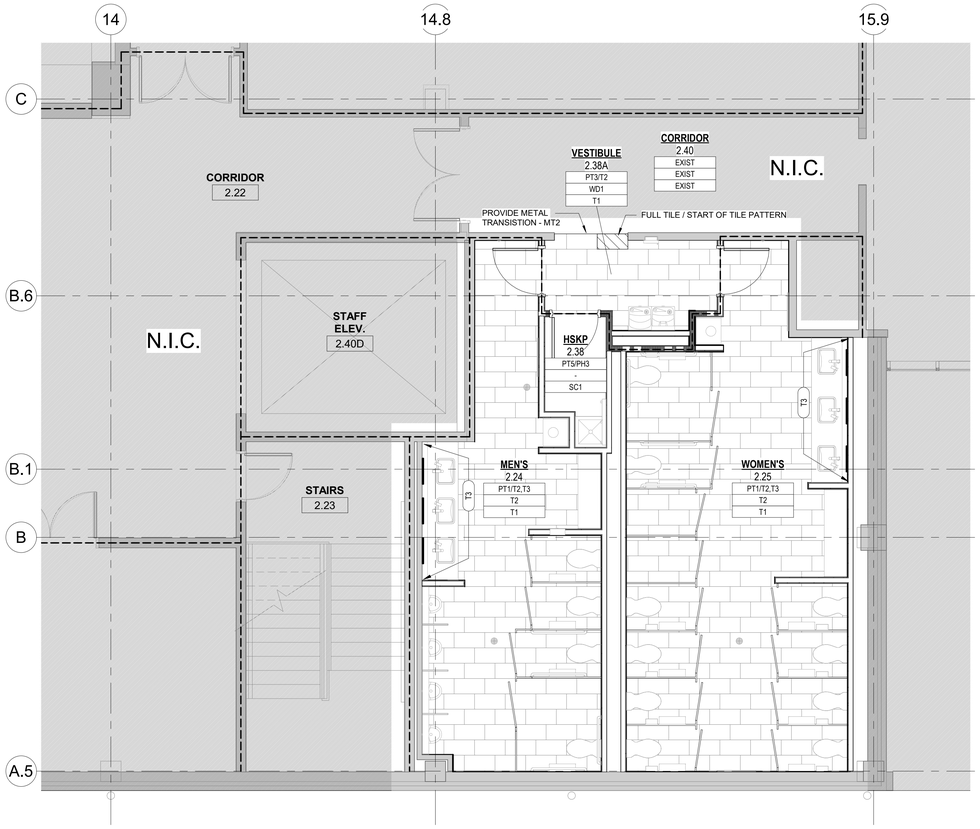
SHEET TITLE
LEVEL 1 - ENLARGED FINISH PLANS

SHEET NO.
A902



C1 A903 LEVEL 2: ENLARGED FINISH PLAN - NORTH RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

B3 A903 PERSEPCTIVE - LAVATORY (1.51)

3" = 1'-0"

D3 A903 PERSEPCTIVE - VESTIBULE (1.51A)

1 1/2" = 1'-0"

E1 A903 PERSPECTIVE - MEN'S RESTROOM (1.09) AT ENTRY

1/8" = 1'-0"

E3 A903 PERSEPCTIVE - WOMEN'S RESTROOM (1.08) AT ENTRY

1/8" = 1'-0"

GENERAL FINISH PLAN NOTES:

1. SEE SHEET A801 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
2. ALL FLOOR FINISHES TO TRANSITION AT THE MIDPOINT OF THE DOOR FRAME OR UNDER THE MIDPOINT OF THE DOOR. SEE SHEET A801 FOR FLOOR TRANSITION DETAILS.
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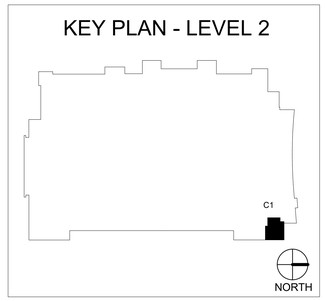
FINISH SYMBOL LEGEND

NAME — ROOM NAME
101 — ROOM NUMBER
WALL — WALL FINISH(ES)
BASE — BASE FINISH(ES)
FLOOR — FLOOR FINISH(ES)
LOCATION OF EXISTING 1 HR FIRE WALL

FLOOR PATTERN LEGEND

PORCELAIN TILE - T1
PORCELAIN TILE - T4
SEALED CONCRETE - SC1

KEY PLAN - LEVEL 2



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SHEET TITLE
LEVEL 2 - ENLARGED FINISH PLAN & PERSPECTIVES

SHEET NO.
A903

GENERAL NOTES

1. THESE GENERAL NOTES SHALL APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS AND DETAILS.
2. CONSTRUCTION WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE 2021 INTERNATIONAL BUILDING CODE (IBC).
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL COORDINATE ALL STRUCTURAL PLANS AND DETAILS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS BEFORE STARTING WORK. IN CASE OF DISCREPANCY, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SAME IN A TIMELY MANNER.
4. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR CORRECT FABRICATION AND CONSTRUCTION OF THE WORK.
5. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
6. PRINCIPAL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, HVAC AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS AND SIMILAR DETAILS NOT SHOWN. SIZE AND LOCATION OF ALL OPENINGS SHALL BE VERIFIED BY THE CONTRACTOR. ANY DEVIATION FROM OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEERS ATTENTION PRIOR TO CONSTRUCTION.
7. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS AND ALL OTHER PERSONS DURING CONSTRUCTION.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS IN THE STRUCTURE.
9. CONSTRUCTION MATERIALS SHALL NOT BE STORED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LIVE LOADS. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.

SUBGRADE PREPARATION

1. AFTER EXISTING SUBGRADE HAS BEEN EXCAVATED TO FACILITATE THE REPLACEMENT OF THE PLUMBING PIPES, BACKFILL TRENCH WITH NORMAL SET CONTROLLED LOW STRENGTH MATERIAL PER COA SPEC ITEM 402S PRIOR TO RECONSTRUCTION OF REINFORCED SLAB ON GRADE. SEE DETAILS FOR SLAB RECONSTRUCTION DETAILS.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) SPECIFICATION, ACI # 301 & BUILDING CODE REQUIREMENTS, ACI #318, LATEST EDITION, FOR BUILDING STRUCTURES.
2. ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315, LATEST EDITION.
3. UNLESS SHOWN OTHERWISE IN THE SPECIFICATIONS, CONCRETE SHALL BE CLASS 'S' CONCRETE WITH 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS. ALSO REFER TO SPECIFICATIONS FOR ADDITIONAL CONCRETE MIX DESIGN REQUIREMENTS.
4. REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60.
5. STANDARD PROTECTIVE COVER OF REINFORCING BARS UNLESS OTHERWISE NOTED SHALL BE:

   WHERE CAST AGAINST DIRT OR FILL.......................3 IN
   WHERE CAST AGAINST SEAL SLAB...........................2 IN
   EXPOSED TO EARTH, WATER, OR WEATHER..........2 IN
   SLABS AND WALLS..2 IN
   OTHER...2 IN

6. CONCRETE SLUMPS SHALL BE AS FOLLOWS:

   SLAB ON METAL DECK-------------------- 4" MAX, 2" MIN
   PIERS -- 7" MAX, 5" MIN
   CONCRETE CONTAINING HRWR------ 10" MAX
   ALL OTHER CONCRETE ---------------- 5" MAX, 2" MIN

7. ALL ACCESSORIES SHALL BE IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE", ACI #315, LATEST EDITION. ACCESSORIES FOR INTERIOR CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE PLASTIC COATED FEET. ACCESSORIES FOR CONCRETE SURFACES EXPOSED TO EARTH, WEATHER, WATER, OR HIGH HUMIDITY SHALL BE FABRICATED OF STAINLESS STEEL OR PLASTIC. PROVIDE BOLSTERS AT SUSPENDED SLABS, WALLS AND WIDE BEAMS. PROVIDE STANDEES AT ALL SLABS WITH TWO LAYERS OF REINFORCING. FOR SLAB-ON-GRADE REINFORCING, PROVIDE CHAIRS MANUFACTURED FROM HOT-DIPPED GALVANIZED STEEL, STAINLESS STEEL, PLASTIC, OR PRECAST CONCRETE BLOCKS OF EQUAL OR GREATER COMPRESSIVE STRENGTH AS THE CONCRETE BEING POURED.
8. MAINTAIN A MINIMUM OF ONE BAR DIAMETER (BUT NOT LESS THAN 1") BETWEEN ALL CONTINUOUS REINFORCING BARS ON ALL SLABS. MAINTAIN A MINIMUM OF 1-1/2" BETWEEN BARS IN COLUMNS, AND A MINIMUM OF 1-1/2 TIMES THE MAXIMUM COARSE AGGREGATE SIZE IN ALL CASES.
9. BARS SCHEDULED AND DETAILED "CONT" SHALL BE LAPPED ACCORDING TO STANDARD TENSION LAP LENGTHS TABLE UNLESS OTHERWISE NOTED. THE SPLICES SHALL OCCUR AT MIDSPAN FOR TOP BARS AND OVER THE SUPPORTS FOR BOTTOM BARS.
10. ANY PROPOSED PENETRATIONS NOT MEETING ALL OF THE BELOW CRITERIA SHALL NOT BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER:
    a. NO PENETRATIONS ARE TO BE LARGER THAN 2" (2 1/2 SLEEVE) IN DIAMETER FOR BEAMS LESS THAN 18" WIDE. NO PENETRATIONS ARE TO BE LARGER THAN 4" (5" SLEEVE) IN DIAMETER FOR BEAMS GREATER THAN 18" WIDE.
    b. NO PENETRATIONS ARE TO BE CLOSER THAN 4" TO ANY EDGE OF BEAMS.
    c. PENETRATIONS LARGER THAN 3/4" (1" SLEEVE) DIAMETER MUST BE IN THE MIDDLE THIRD OF THE BEAM SPAN.
    d. ONLY ONE (1) VERTICAL PENETRATION MAY OCCUR ACROSS THE WIDTH OF A BEAM. MULTIPLE VERTICAL PENETRATIONS OCCURRING ALONG THE LENGTH OF A BEAM ARE TO BE SPACED A MINIMUM OF 6" ON CENTER AND HAVE AT LEAST ONE STIRRUP BETWEEN THEM.
    e. ALL HORIZONTAL PENETRATIONS ARE TO BE IN THE MIDDLE THIRD OF THE BEAM OR JOIST DEPTH. MULTIPLE HORIZONTAL PENETRATIONS OCCURRING ALONG THE LENGTH OF A BEAM OR JOIST ARE TO BE SPACED A MINIMUM OF 6" ON CENTER AND HAVE AT LEAST ONE STIRRUP BETWEEN THEM.
11. SHOP DRAWINGS SHALL BE PREPARED FOR ALL REINFORCING STEEL AND SUBMITTED FOR REVIEW BY ENGINEER. ENGINEERING DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS.
12. WELDING OF REINFORCING BARS SHALL NOT BE PERMITTED, UNLESS APPROVED BY ENGINEER.
13. DURING PLACEMENT OF CONCRETE, USE TREMIE OR OTHER MEANS TO LIMIT FREE FALL OF CONCRETE TO 5'-0".
14. VERTICAL REINFORCING, DOWEL, AND LAPS ARE OFFSET IN DETAILS FOR CLARITY. BARS SHOULD BE CONSIDERED TO BE IN THE SAME PLANE AT EXTERNAL FACE.
15. CONCRETE PLACED BY PUMPING SHALL MEET THE FOLLOWING REQUIREMENTS:
    a. COARSE AGGREGATE (AGG) SHALL BE GRADED FROM A MAXIMUM OF 1 1/2".
    b. MAXIMUM ALLOWABLE INCREASE IN CEMENT FACTOR SHALL BE 1/2 SACK PER CUBIC YARD OVER NORMAL MIX DESIGN.
    c. MAXIMUM WATER CEMENT RATIO WILL CONFORM TO REQUIREMENTS STATED IN THE PROJECT SPECIFICATIONS. IF MORE WORKABILITY IS REQUIRED, AN ADMIXTURE MAY BE USED.
    d. MAXIMUM WEIGHT RATIO OF FINE AGGREGATES TO COARSE AGGREGATES (AGG) SHALL NOT EXCEED 2/3.
    e. REFER TO ACI 301, LATEST EDITION, SECTION 800, FOR OTHER PUMPING REQUIREMENTS.
    f. IN NO CASE SHALL CONCRETE BE PUMPED THROUGH AN ALUMINUM TUBE
16. NO HORIZONTAL JOINTS WILL BE PERMITTED IN SLABS OR BEAMS UNLESS SPECIFICALLY SHOWN ON DRAWINGS. CONTRACTOR MUST SUBMIT VARIANCE IN CONSTRUCTION JOINT LOCATIONS FOR REVIEW BY ENGINEER.
17. WELDED WIRE FABRIC (WWF) SHALL BE SUPPLIED IN FLAT SHEETS ONLY. NO ROLLS ARE PERMITTED.
18. USE 3/4" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.

SLAB-ON-GRADE NOTES

1. FLOOR SLAB SHALL BE PLACED OVER A 15 MIL VAPOR RETARDER, OVER SUBGRADE PREPARED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. TAPE ALL SEAMS, PENETRATIONS AND TEARS IN THE VAPOR RETARDER WITH A COMPATIBLE WATERPROOF TAPE. SEE FLOOR PLAN FOR SLAB THICKNESS.
2. REINFORCE SLAB AS SHOWN ON FLOOR PLAN. REBARS SHALL BE PLACED AND SUPPORTED ON CHAIRS OR CONCRETE BRIQUETS, AT SLAB MID DEPTH.
3. PROVIDE THE FOLLOWING JOINTS TO ALIGN WITH EXISTING SLAB JOINTS:
   A. CONSTRUCTION JOINTS.
   B. SAW CUT CONTROL JOINTS ELSEWHERE 1" DEEP OR ONE QUARTER OF THE SLAB DEPTH DEEP, WHICHEVER IS GREATER.
4. CUT SAW CUT JOINTS WITHIN 8 HOURS OF POURING CONCRETE.
5. SLAB SURFACE FINISH SHALL MATCH THE EXISTING SLAB.

VAPOR BARRIER NOTES

1. A VAPOR BARRIER SHALL BE PLACED UNDER THE CONCRETE SLAB. THE VAPOR BARRIER SHALL CONSIST OF A POLYETHYLENE OR POLYOLEFIN RESIN GEOMEMBRANE THAT MEETS THE FOLLOWING REQUIREMENTS:
   a. MEET OR EXCEED THE CLASS A REQUIREMENTS OF ASTM E1745
   b. WATER VAPOR TRANSMISSION RATE (WVTR) OF 0.006 GRAINS (0.012 PERMS) OR LESS PER SQUARE FOOT IN ACCORDANCE WITH ASTM E96
   c. MINIMUM PUNCTURE RESISTANCE OF 2445 GRAMS IN ACCORDANCE WITH ASTM D1709
   d. MINIMUM TENSILE STRENGTH OF 76.6 PLF/INCH IN ACCORDANCE WITH ASTM D882
   e. MINIMUM THICKNESS OF 15 MILS
2. ACCEPTABLE PRODUCT IS STEGO WRAP CLASS A VAPOR BARRIER BY STEGO INDUSTRIES LLC, SAN JUAN CAPISTRANO, CALIFORNIA, OR APPROVED EQUAL.
3. VAPOR BARRIER SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SPECIAL ATTENTION SHALL BE PAID TO THE VAPOR BARRIER INSTALLATION AT PIPE AND CONDUIT PENETRATIONS.
4. LAP JOINTS IN VAPOR BARRIER A MINIMUM OF 6 INCHES AND SEAL CONTINUOUSLY WITH A PRESSURE SENSITIVE, HIGH-DENSITY POLYETHYLENE TAPE MANUFACTURED SPECIFICALLY FOR THE USE OF SEALING VAPOR BARRIER LAPS. THE TAPE SHALL MEET THE FOLLOWING REQUIREMENTS:
   a. WATER VAPOR TRANSMISSION RATE (WVTR) OF 0.3 PERMS OR LESS PER SQUARE FOOT IN ACCORDANCE WITH ASTM E96
   b. MINIMUM TAPE WIDTH OF 4 INCHES
5. THE VAPOR BARRIER SHALL BE CONTINUOUS UNDER THE SLAB. THE VAPOR BARRIER SHALL BE INSTALLED SMOOTH AND LEVEL. BUNCHING WILL NOT BE PERMITTED AND SHALL BE CORRECTED PRIOR TO CONCRETE PLACEMENT.
6. CAREFULLY INSPECT VAPOR BARRIER FOR DAMAGE, TEARS OR PENETRATIONS PRIOR TO CONCRETE PLACEMENT. ALL DAMAGED AREAS SHALL BE REPAIRED BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL EDGES.

SHOP DRAWING REVIEW AND SUBMITTAL NOTES

1. REFER TO PROJECT SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

   SHOP DRAWINGS AND SUBMITTALS WILL BE REVIEWED FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS.

   SUBMITTAL REVIEW WILL NOT BE CONDUCTED FOR THE PURPOSE OF DETERMINING THE ACCURACY AND COMPLETENESS OF OTHER DETAILED INFORMATION SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS DESIGNED BY THE CONTRACTOR. ALL OF THIS REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.

   REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS OR OF ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

   APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

2. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL:

   A. REINFORCING STEEL

   SHOP DRAWINGS ARE TO BE DISTRIBUTED ONLY FROM RETURNED SUBMITTALS BEARING AN INITIALED REVIEW STAMP AND WORK ON THESE ITEMS SHALL NOT PROCEED UNLESS THE STAMP CLEARLY INDICATES THE DRAWINGS ARE "APPROVED" OR "APPROVED AS NOTED."

3. SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. THE ENGINEER'S REVIEW WILL BE LIMITED TO CONFORMANCE WITH DESIGN AND PERFORMANCE CRITERIA SPECIFIED IN THE CONSTRUCTION DOCUMENTS AND THE INTERFACE BETWEEN THESE ITEMS/SYSTEMS AND THE BUILDING STRUCTURE. THIS REVIEW WILL CHECK THE COMPATIBILITY OF LOADS AND POSITIONS OF LOADS IMPARTED ONTO THE BUILDING STRUCTURE, AND COMPATIBILITY OF CONNECTIONS WITH THE BUILDING STRUCTURE. THE MANUFACTURER/ SUPPLIER AND ITS SPECIALTY STRUCTURAL ENGINEER RESPONSIBLE FOR THE DESIGN OF THE ITEM/SYSTEM WILL RETAIN ALL RIGHTS AND RESPONSIBILITIES FOR THE DESIGN OF THE PRODUCT AND THE CONNECTIONS TO THE BUILDING STRUCTURE.

   A. CONCRETE MIXES

   NO WORK ON STRUCTURAL ELEMENTS SUPPORTING OR RELATED TO THESE ITEMS IS TO PROCEED UNLESS THE REVIEW STAMP CLEARLY INDICATES "REVIEWED" OR "REVIEWED, SEE COMMENTS" BY THE STRUCTURAL ENGINEER.

4. CONCRETE IS A PRE-ENGINEERED MATERIAL DESIGNED BY THE SUPPLIER TO MEET THE STRENGTH AND PERFORMANCE CRITERIA SPECIFIED IN THE CONTRACT DOCUMENTS. CONCRETE MIX DESIGNS SHALL BE IN CONFORMANCE WITH ACI 318-14, CHAPTER 5, AND SHALL BE SUBMITTED TO THE INDEPENDENT TESTING LAB WITH APPROPRIATE HISTORICAL TEST DATA AND ANALYSIS FOR REVIEW AND APPROVAL. SUBMIT MIX DESIGNS AND THE TESTING LAB REVIEW TO THE ARCHITECT/ENGINEER FOR REVIEW.

   MANY VARIABLES, INCLUDING MIX COMPONENTS AND ENVIRONMENTAL CONDITIONS AFFECT THE QUALITY OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING VARIABLES AND REQUESTING MIX MODIFICATIONS AND SHALL BE SOLELY RESPONSIBLE FOR THE QUALITY OF CONCRETE DELIVERED AND PLACED ON THE SITE.

5. GENERAL CONTRACTOR SHALL PRE-CHECK ALL SHOP DRAWINGS BEFORE SUBMISSION TO THE ENGINEER FOR REVIEW. ALL SUBMITTAL MATERIALS MUST BEAR AN INITIALED REVIEW STAMP OF THE GENERAL CONTRACTOR. SUBMITTALS WITHOUT THE REVIEW STAMP OF THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW AND SHALL NOT BE CAUSE FOR CLAIMS OF DELAY.

6. GENERAL CONTRACTOR SHALL SCHEDULE SUBMITTALS SUFFICIENTLY IN ADVANCE OF THE DATE REQUIRED TO ALLOW REASONABLE TIME FOR DELIVERY, PROCESSING AND REVIEW BY THE DESIGN TEAM. THIS SHALL INCLUDE A MINIMUM OF TEN WORKING DAYS, EXCLUDING DELIVERY TIME, FOR ENGINEER'S PROCESSING AND REVIEW OF SHOP DRAWINGS. INCLUDE TIME FOR CONTRACTOR'S RESUBMISSION AND SUBSEQUENT REVIEW IF NECESSARY.

   SHORTER REVIEW PERIODS WILL ONLY BE HONORED WITH PRIOR WRITTEN CONSENT FROM THE ENGINEER. THESE ACCELERATED SERVICES, AND APPROPRIATE COMPENSATION, MUST BE NEGOTIATED WITH THE ENGINEER AND ARCHITECT IN ADVANCE.

   FIVE DAY REVIEW PERIODS CAN NOT BE HONORED WHEN LARGE QUANTITIES OF SHOP DRAWINGS ARE SUBMITTED AT ONE TIME. WHEN THIS HAPPENS, THE CONTRACTOR SHALL SUBMIT AN ITEMIZED LIST INDICATING PRIORITIES AND REASONABLE RETURN DATES.

7. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS, INCLUDING THE USE OF ELECTRONIC FILES, BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF THE INDEPENDENT PREPARATION OF SHOP DRAWINGS, SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON. SUCH USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS WILL NOT BE ALLOWED WITHOUT PRIOR CONSENT FROM THE ENGINEER.

8. WHEN USING ELECTRONIC FORMAT FOR SUBMITTALS, THE CONTRACTOR SHALL PROVIDE ONE PRINTED HARD COPY FOR ENGINEER REVIEW OR EXECUTE AN AGREEMENT FOR REIMBURSING THE ENGINEER FOR PRINTING COSTS FOR ONE COPY.

TRENCH SAFETY

1. THE CONTRACTOR SHALL PROVIDE TRENCH SAFETY DESIGN DOCUMENTS PREPARED AND SEALED BY A QUALIFIED REGISTERED PROFESSIONAL ENGINEER AS REQUIRED BY ALL LOCAL AND STATE LAWS. SAID ENGINEER SHALL ALSO BE RESPONSIBLE FOR ON SITE OBSERVATIONS. THE TRENCH SAFETY DESIGN DOCUMENTS SHALL BE FILED WITH THE APPROPRIATE GOVERNMENT AGENCY. THE CONTRACTOR SHALL FURNISH A SEPARATE AND DISTINCT PRICE FOR TRENCH SAFETY SYSTEM THAT MEETS OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION STANDARDS.

MODIFICATIONS OF EXISTING STRUCTURE NOTES

1. THE CONTRACTOR SHALL INSPECT THE EXISTING STRUCTURE PRIOR TO FABRICATION AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS OR ANY AREAS ERODED BY RUST, CORROSION, ROT, ETC., WHICH MAY ADVERSELY AFFECT THE RELIABILITY OF NEW CONSTRUCTION.
2. DIMENSIONS SHOWN FOR, OR TO, THE EXISTING STRUCTURE ARE BASED ON EITHER THE ORIGINAL CONSTRUCTION DOCUMENTS PREPARED FOR THE EXISTING STRUCTURE OR ON APPROXIMATE FIELD MEASUREMENTS. THEY ARE TO BE USED FOR BID PURPOSES ONLY AND NOT FOR SHOP DRAWING PREPARATION OR CONSTRUCTION. ACTUAL CONDITIONS MAY VARY. THE CONTRACTOR SHALL PROVIDE ALL FIELD MEASUREMENTS REQUIRED FOR PROPER FIT UP OF MEMBERS FRAMING TO AND AROUND EXISTING CONSTRUCTION.
3. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE ADEQUACY OF ALL SHORING (TEMPORARY SUPPORTS) OF THE EXISTING STRUCTURE NECESSARY TO COMPLETE THE CONSTRUCTION AS OUTLINED IN THE STRUCTURAL DRAWINGS. PROVIDE SHORING, BRACES, JACKS, ETC. AS REQUIRED TO COMPLETE THE WORK. ENGINEERING AND DESIGN OF THE TEMPORARY SUPPORTS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER, ENGAGED BY THE CONTRACTOR, AND REGISTERED IN THE STATE OF THE PROJECT, WITH EXPERIENCE IN THE DESIGN OF THESE ELEMENTS.

POST-INSTALLED REBAR AND ANCHORS

THE BELOW PRODUCTS ARE THE DESIGN BASIS FOR THIS PROJECT. PRODUCT DIAMETER AND EMBEDMENT SHALL BE SHOWN IN THE DETAILS. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). CONTRACTOR SHALL CONTACT MANUFACTURER'S REPRESENTATIVE FOR PRODUCT INSTALLATION TRAINING AND SHALL SUBMIT LETTER TO THE ENGINEER -OF-RECORD (EOR) INDICATING TRAINING HAS TAKEN PLACE. REFER TO THE PROJECT BUILDING CODE AND/OR EVALUATION REPORT FOR SPECIAL INSPECTIONS AND PROOF LOAD REQUIREMENTS. SUBSTITUTION REQUESTS FOR PRODUCTS
OTHER THAN THOSE LISTED BELOW MAY BE SUBMITTED BY THE CONTRACTOR TO THE EOR FOR REVIEW. SUBSTITUTIONS WILL ONLY BE CONSIDERED FOR PRODUCTS HAVING A RESEARCH REPORT RECOGNIZING THE PRODUCT FOR THE APPROPRIATE APPLICATION UNDER THE PROJECT BUILDING CODE. SUBSTITUTION REQUESTS SHALL INCLUDE CALCULATIONS THAT DEMONSTRATE THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE EQUIVALENT PERFORMANCE VALUES OF THE DESIGN BASIS PRODUCT.

UNLESS OTHERWISE NOTED ON THE PLANS, ANCHORS SHALL BE:

1. FOR ANCHORING INTO CONCRETE:
   A. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED CONCRETE. PRE-APPROVED PRODUCTS INCLUDE:
      I. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
      II. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
      III. SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (IAPMO-UES ER-493)
      IV. HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)
      V. DEWALT SCREW BOLT + (ICC-ES ESR-3889)
      VI. DEWALT POWER-STUD + SD1 (ICC-ES ESR-2818)
   B. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE RANGE A WITH INSTALLATIONS INTO DRY HOLES DRILLED USING CARBIDE DRILL BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-14 17.8.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-14 17.8.2.4. PRE-APPROVED PRODUCTS INCLUDE:
      I. SIMPSON STRONG-TIE "AT-XP" W/ SPEED CLEAN DXS DUST EXTRACTION SYSTEM (IAPMO-UES ER-263)
      II. SIMPSON STRONG-TIE "SET-XP" W/ SPEED CLEAN DXS DUST EXTRACTION SYSTEM (ICC-ES ESR-2508)
      III. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
      IV. HILTI "HIT-HY 200 SAFE SET SYSTEM w/ HILTI HIT-Z ROD" (ICC-ES ESR-3187)
      V. HILTI "HIT-HY 200 SAFE SET SYSTEM w/ HILTI HOLLOW DRILL BIT SYSTEM" (ICC-ES ESR-3187)
      VI. HILTI "HIT-RE 500 V3" (ICC-ES ESR-3814)
      VII. DEWALT PURE 110+ EPOXY SYSTEM (ICC-ES ESR-3298)
      VIII. DEWALT PURE 110+ EPOXY SYSTEM (ICC-ES ESR-3298) W/ DEWALT HOLLOW DUST X SYSTEM
      IX. DEWALT AC200+ ACRYLIC ADHESIVE SYSTEM (ICC-ES ESR-4027)
      X. DEWALT AC200+ ACRYLIC ADHESIVE SYSTEM (ICC-ES ESR-4027) W/ DEWALT HOLLOW DUST X SYSTEM
2. FOR ANCHORING INTO MASONRY:
   A. SOLID-GROUTED CONCRETE MASONRY
      I. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC01 OR ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
         (1) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
         (2) SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-UES ER-240)
         (3) HILTI "KWIK BOLT 3" (ICC-ES ESR-1385)
         (4) DEWALT POWER-STUD + SD1 (ICC-ES ESR-2966)
         (5) DEWALT SCREW-BOLT+ (ICC-ES ESR-4042)
      II. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED PRODUCTS INCLUDE:
         (1) SIMPSON STRONG-TIE "AT-XP" (IAPMO-UES ER-281)
         (2) SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
         (3) HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR 2682)
         (4) DEWALT AC100+GOLD (ICC-ES ESR-3200)
   B. HOLLOW CONCRETE MASONRY
      I. MECHANICAL ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED PRODUCTS INCLUDE:
         (1) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
      II. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ICC-ES AC58. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED PRODUCTS INCLUDE:
         (1) SIMPSON STRONG-TIE "SET-XP" (IAPMO-UES ER-265)
         (2) HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (ICC-ES ESR-2682)
         (3) DEWALT AC100+GOLD (ICC-ES ESR-3200)

STATEMENT OF SPECIAL INSPECTION PER IBC 2021, CHAPTER 17

PER 2021 INTERNATIONAL BUILDING CODE, THE FOLLOWING IS A LIST OF THE REQUIRED SPECIAL INSPECTIONS APPLICABLE FOR THIS PROJECT:

IBC SECTION	TYPE OF SPECIAL INSPECTIONS AND EXTENT	APPLICABLE	NON APPLICABLE	NON STRUCTURAL
1705.2	STEEL CONSTRUCTION		X	
1705.2.2	COLD-FORMED WELDING INSPECTION		X	
1705.2.3	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		X	
1705.2.4	COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER		X	
1705.3	CONCRETE CONSTRUCTION	X		
1705.3.1	REINFORCING STEEL WELDING INSPECTION		X	
1705.4	MASONRY CONSTRUCTION		X	
1705.5	WOOD CONSTRUCTION		X	
1705.6	SOILS		X	
1705.7	DRIVEN DEEP FOUNDATIONS		X	
1705.8	CAST-IN-PLACE DEEP FOUNDATIONS (PIERS)		X	
1705.9	HELICAL PILE FOUNDATIONS		X	
1705.10	STRUCTURAL INTEGRITY OF DEEP FOUNDATION ELEMENTS		X	
1705.11	FABRICATED ITEMS		X	
1705.12	SPECIAL INSPECTION FOR WIND RESISTANCE		X	
1705.13	SPECIAL INSPECTION FOR SEISMIC RESISTANCE		X	
1705.14	TESTING FOR SEISMIC RESISTANCE		X	
1705.15	SPRAYED FIRE-RESISTANCE MATERIALS			X
1705.16	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS			X
1705.17	EXTERIOR INSULATION AND FINISH SYSTEMS/WATER-RESISTIVE BARRIER COATING			X
1705.18	FIRE-RESISTANT PENETRATIONS AND JOINTS			X
1705.19	TESTING FOR SMOKE CONTROL			X
1706	DESIGN STRENGTH OF MATERIALS		X	
1707	ALTERNATIVE TEST PROCEDURES		X	
1708	IN-SITU LOAD TESTS		X	
1709	PRECONSTRUCTION LOAD TESTS		X	

ABBREVIATIONS

AB	ANCHOR BOLT	FD	FLOOR DRAIN	PSF	POUNDS PER SQUARE FOOT
ADDL	ADDITIONAL	FDN	FOUNDATION	PROJ	PROJECTION
ADH	ADHESIVE	FIN	FINISH	P/S	PUMP STATION
AFF	ABOVE FINISH FLOOR	FLG	FLANGE	PVC	POLYVINYL CHLORIDE
AL	ALUMINUM	FLR	FLOOR	RD	ROOF DRAIN
ALT	ALTERNATE	FO	FACE OF	REINF	REINFORCEMENT, REINFORCING
ANC	ANCHOR	FRMG	FRAMING	REQD	REQUIRED
APVD	APPROVED	FRP	FIBER REINFORCED POLYMER	RTN	RETURN
ARCH	ARCHITECT, ARCHITECTURAL	FS	FAR SIDE	SBD	SCHEDULED BEAM DEPTH
BC	BOTTOM CHORD	FT	FOOT / FEET	SCHED	SCHEDULE / SCHEDULED
BLDG	BUILDING	FTG	FOOTING	SHT	SHEET
BM	BEAM	GA	GAUGE, GAGE	SIM	SIMILAR
BOC	BOTTOM OF CONCRETE	GALV	GALVANIZED	SLV	SHORT LEG VERTICAL
BOS	BOTTOM OF STEEL	GB	GRADE BEAM	SOG	SLAB ON GRADE
BOT	BOTTOM	GRD	GRADE	SPA	SPACING
BRG	BEARING	GRT	GROUT	SPCS	SPACES
BTWN	BETWEEN	GRTG	GRATING	SPECS	SPECIFICATIONS
CC	CENTER TO CENTER	H	HIGH	SQ	SQUARE
CFM	COLD FORMED METAL	HCA	HEADED CONCRETE ANCHOR	SS	STAINLESS STEEL
CHKD	CHECKERED / CHECKED	HD	HOT DIPPED	SSH	SHORT SLOTTED HOLE
CIP	CAST IN PLACE	HORIZ	HORIZONTAL	STD	STANDARD
CJ	CONSTRUCTION JOINT	HSB	HIGH STRENGTH BOLT	STIFF	STIFFENER
CL, ℄	CENTERLINE	IF	INSIDE FACE	STIR	STIRRUP
CLR	CLEARANCE / CLEAR	IN	INCH(ES)	STL	STEEL
CMU	CONCRETE MASONRY UNIT	JT	JOINT	SYM	SYMMETRICAL
COL(S)	COLUMN(S)	L	LOW	T&B	TOP & BOTTOM
CONC	CONCRETE	LONG	LONGITUDINAL	T/	TOP OF
CONN	CONNECTION	LLH	LONG LEG HORIZONTAL	T/PL	TOP OF PLATE
CONT	CONTINUOUS	LLV	LONG LEG VERTICAL	T/SL	TOP OF SLAB
CTR	CENTER	LSH	LONG SLOTTED HOLE	TC	TOP CHORD
CTRD	CENTERED	MAINT	MAINTENANCE	TD	TRUSS DIAGONAL
DBA	DEFORMED BAR ANCHOR	MAX	MAXIMUM	TEMP	TEMPORARY/TEMPERATURE
DEMO	DEMOLITION	MB	MACHINE BOLT	THK	THICK
DIA, □	DIAMETER	MEP	MECHANICAL, ELECTRICAL, & PLUMBING	TO.	TOP OF
DIM	DIMENSION	MECH	MECHANICAL	TOC	TOP OF CONCRETE
DIST	DISTANCE	MFR	MANUFACTURER	TOF	TOP OF FOOTING
DN	DOWN	MIN	MINIMUM	TOG	TOP OF GRATING
DP	DEEP	MTL	METAL	TOS	TOP OF SLAB / STEEL
DS	DRILLED SHAFT	NOM	NOMINAL	TOW	TOP OF WALL
DWG	DRAWING	NS	NEAR SIDE	TRANS	TRANSVERSE
EA	EACH	NTS	NOT TO SCALE	TV	TRUSS VERTICAL
ECS	EPOXY COATED STEEL	OC	ON CENTER	TYP	TYPICAL
EE	EACH END	OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	OF	OUTSIDE FACE	UT	ULTRASONIC TESTING
EJ	EXPANSION JOINT	O/O	OUT TO OUT	VERT	VERTICAL
EL, ELEV	ELEVATION / ELEVATOR	OPNG	OPENING	VIF	VERIFY IN FIELD
EOR	ENGINEER OF RECORD	OPP	OPPOSITE	W	WIDE
EQ	EQUAL	OSH	OVERSIZED HOLE	W/ w/	WITH
EQUIP	EQUIPMENT	PC	PRECAST	WP	WORK POINT
EQUIV	EQUIVALENT	PEMB	PRE-ENGINEERED METAL BUILDING	WS	WATERSTOP
ES	EACH SIDE	PGL	PROFILE GRADE LINE	WWF	WELDED WIRE FABRIC
EW	EACH WAY	PJF	PREMOLDED JOINT FILLER		
EXP	EXPANSION	PL, ℘	PLATE		
EXIST	EXISTING	PLF	POUNDS PER LINEAR FOOT		

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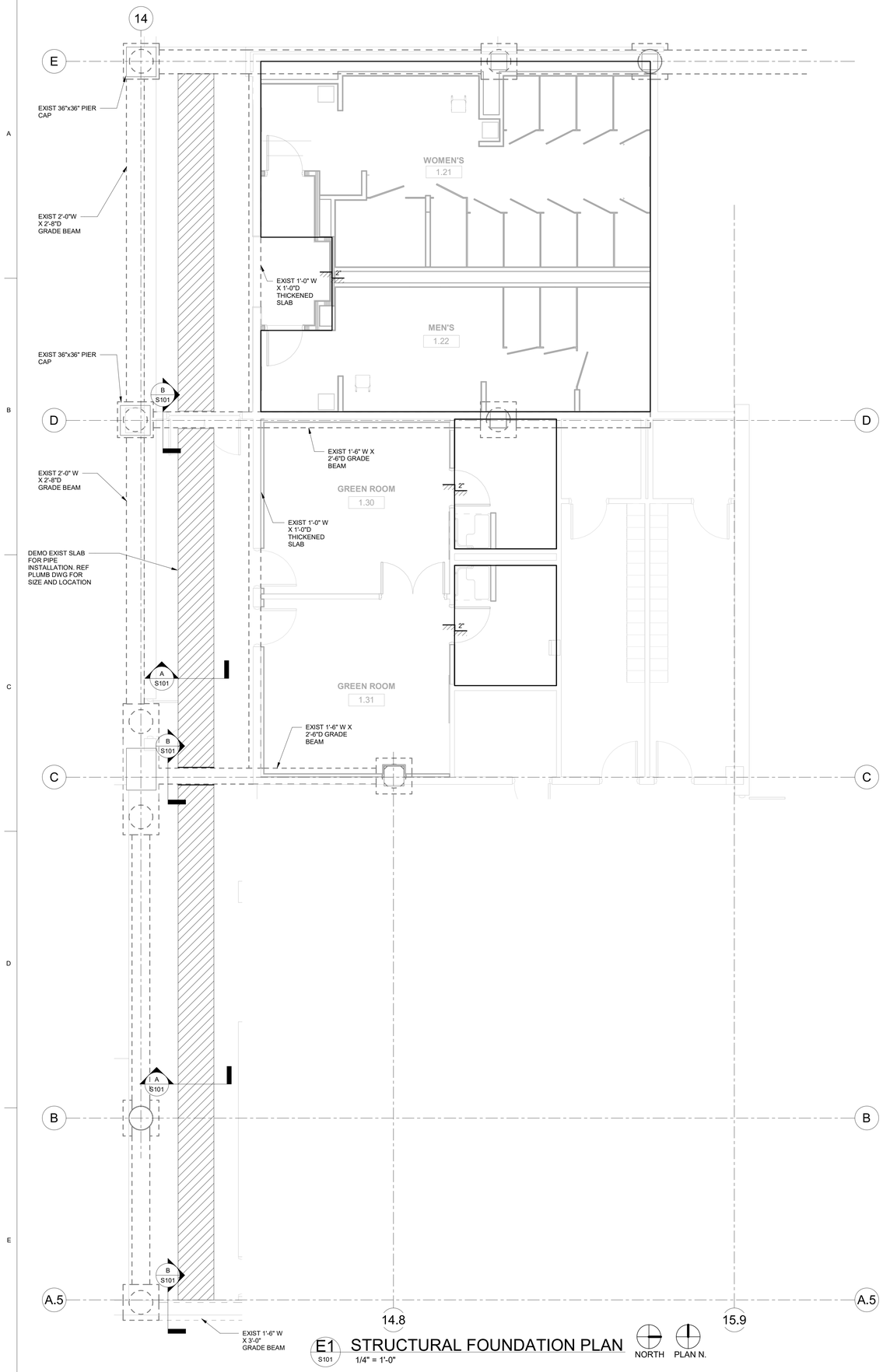
Drawn	FM
Checked	YC
Date	6/6/2022
Project No.	21028
Revisions	

SHEET TITLE
GENERAL NOTES

SHEET NO.
S100



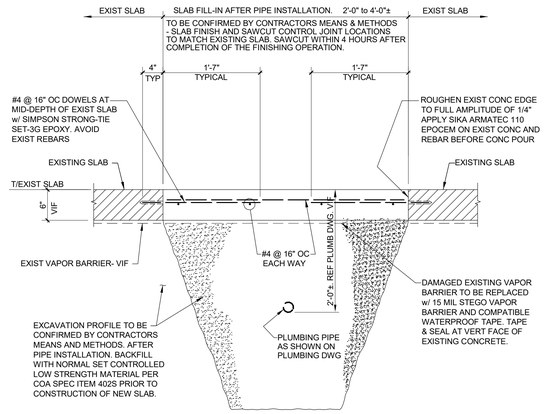
E1 STRUCTURAL FOUNDATION PLAN
S101
1/4" = 1'-0"

NORTH PLAN N.

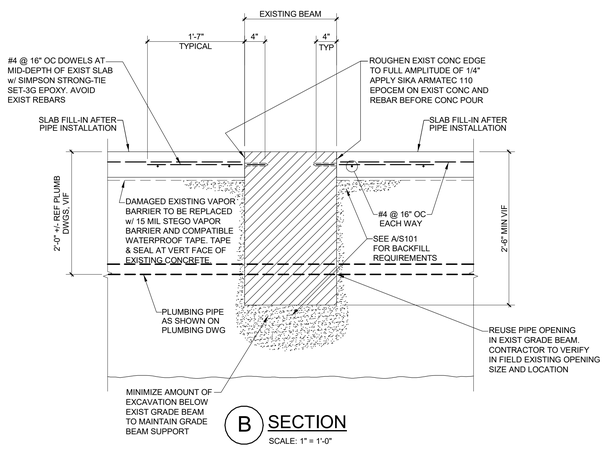
GENERAL NOTES

1. EXISTING STRUCTURES SHOWN ARE DIAGRAMMATIC ONLY AND BASED ON THE AS-BUILT STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY IN FIELD EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING STRUCTURES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

2. PLUMBING TRENCH EXCAVATION SHOWN IS DIAGRAMMATIC ONLY AND BASED ON THE PLUMBING DRAWINGS. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK AND EXCAVATION WITH EXACT LOCATION AND ELEVATION OF PLUMBING PIPES. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

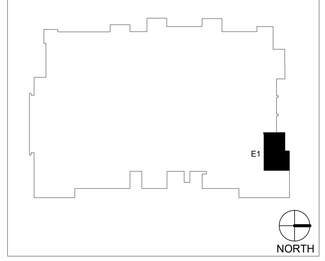


A TYPICAL TRENCH CUTOUT SECTION FOR PLUMBING PIPES
SCALE: 1" = 1'-0"



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

KEY PLAN - LEVEL 1



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Drawn	FM
Checked	YC
Date	6/6/2022
Project No.	21028
Revisions	

SHEET TITLE
STRUCTURAL FOUNDATION PLAN-NORTH

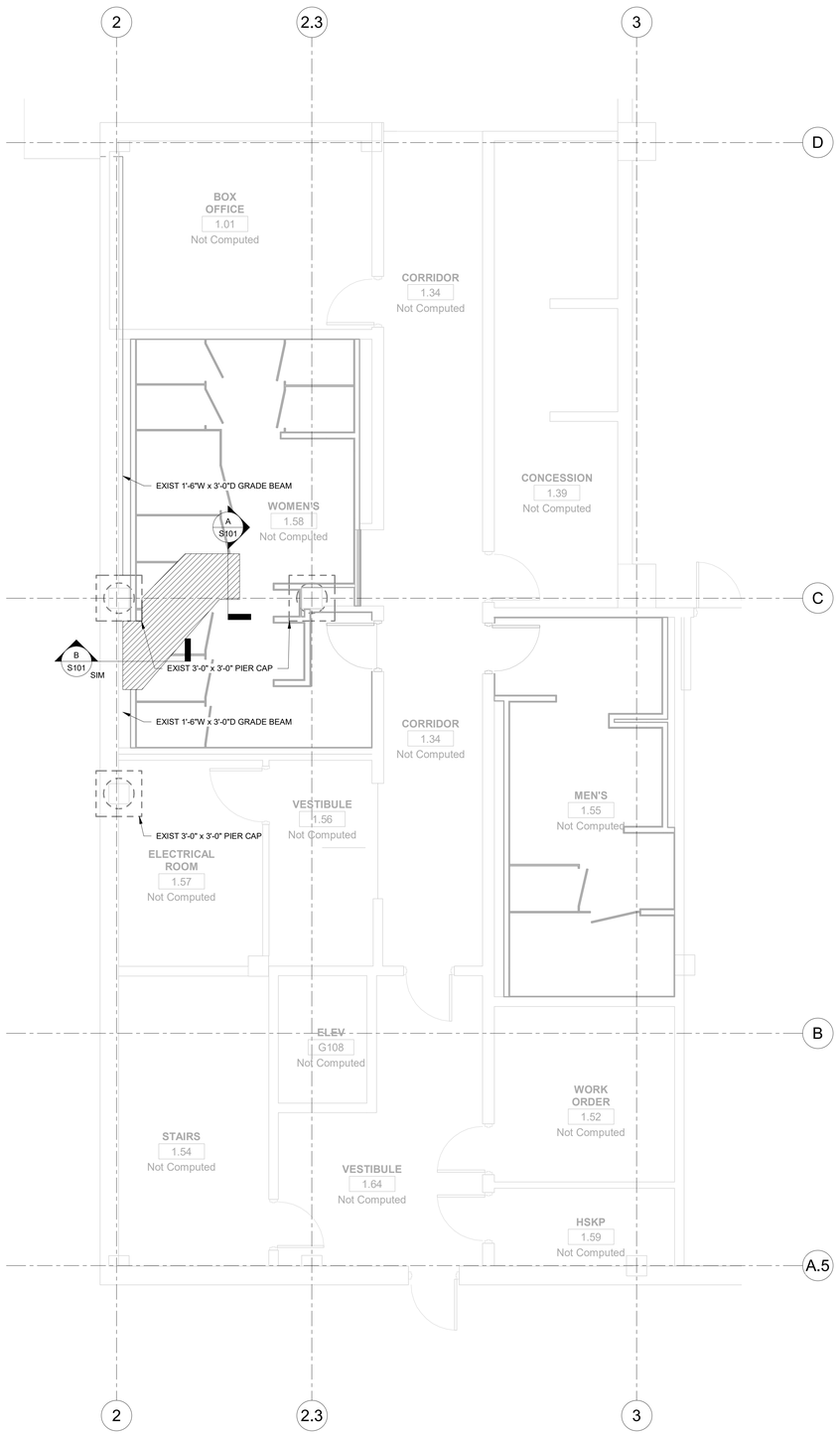
SHEET NO.
S101

GENERAL NOTES

1. EXISTING STRUCTURES SHOWN ARE DIAGRAMMATIC ONLY AND BASED ON THE AS-BUILT STRUCTURAL DRAWINGS. CONTRACTOR SHALL VERIFY IN FIELD EXACT LOCATIONS AND DIMENSIONS OF ALL EXISTING STRUCTURES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

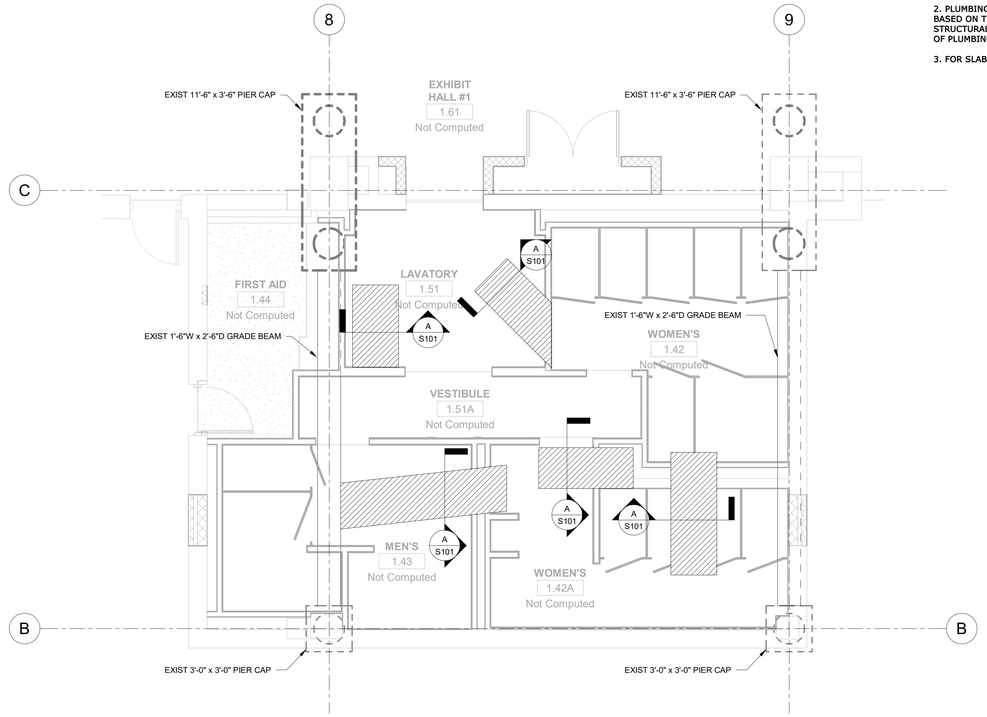
2. PLUMBING TRENCH EXCAVATION SHOWN IS DIAGRAMMATIC ONLY AND BASED ON THE PLUMBING DRAWINGS. CONTRACTOR SHALL COORDINATE STRUCTURAL WORK AND EXCAVATION WITH EXACT LOCATION AND ELEVATION OF PLUMBING PIPES. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

3. FOR SLAB DEMO AND RECONSTRUCTION DETAIL, SEE S101.



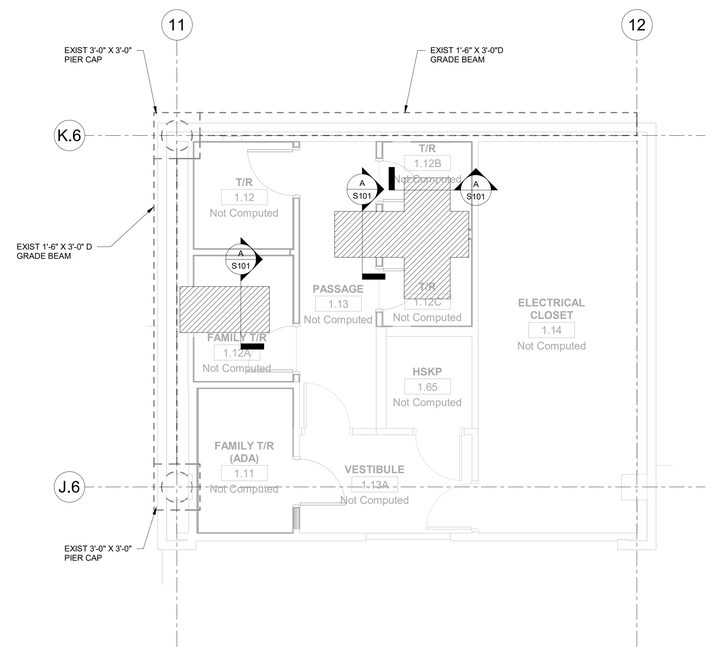
E1 S102 STRUCTURAL - LEVEL 1 - SOUTH RESTROOM FOUNDATION PLAN
1/4" = 1'-0"

NORTH PLAN N.



C4 S102 STRUCTURAL - LEVEL 1 - EAST RESTROOM FOUNDATION PLAN
1/4" = 1'-0"

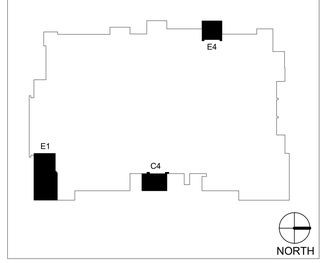
NORTH PLAN N.



E4 S102 STRUCTURAL - LEVEL 1 - WEST FAMILY RESTROOMS FOUNDATION PLAN
1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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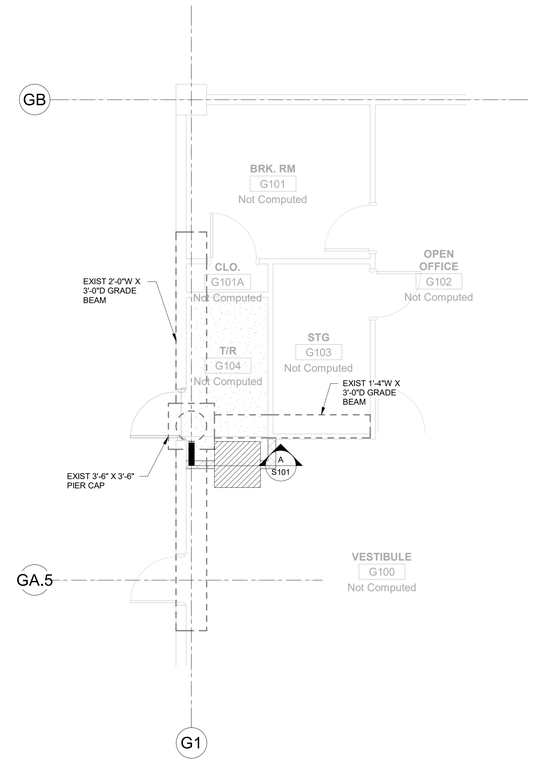
Date	6/6/2022
Project No.	21028
Revisions	

SHEET TITLE
STRUCTURAL FOUND. PLAN - SOUTH & EAST

SHEET NO.
S102

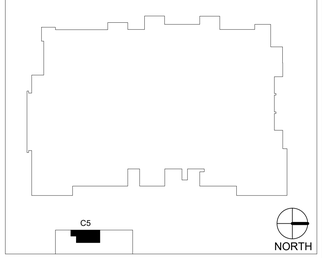


C5 S103 STRUCTURAL - LEVEL 1 - GARAGE FOUNDATION PLAN

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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Project No.	21028
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SHEET TITLE
STRUCTURAL FOUNDATION GARAGE PLAN

SHEET NO.
S103

MECHANICAL GENERAL NOTES, ABBREVIATIONS & SYMBOLS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

ABBREV.	DESCRIPTION
ABV	ABOVE
AC	ABOVE CEILING
A/C	AIR CONDITIONED
ACC	AIR COOLED CHILLER
AD	ACCESS DOOR
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION, INC.
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIGERATION INSTITUTE
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AV	AUTOMATIC AIR VENT ASSEMBLY
B	BOILER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHS/R	CHILLED WATER SUPPLY / RETURN
CLG	CEILING
CO	CLEANOUT
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CP	CONTROLLABLE PITCH
CT	COOLING TOWER
CU	CONDENSING UNIT
CW	COLD WATER
CWP	CONDENSING WATER PUMP
℄	CENTER LINE
D	DRAIN
DB	DRY BULB
DCP	DATA COLLECTION PANEL
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DG	DOOR GRILLE
DIA	DIAMETER
DPT	DEW POINT TEMPERATURE
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY-BULB TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEC	ELECTRICAL
ELEV	ELEVATION
EG	EXHAUST GRILLE
EHC	ELECTRICAL HEATING COIL
ENT	ENTERING
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET-BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(E)	EXISTING
F	FAHRENHEIT
FA	FACE AREA
FC	FAN COIL
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FEF	FUME EXHAUST FAN
FLEX	FLEXIBLE
FLG	FLANGE
FLR	FIRE DAMPER
FM	FACTORY MUTUAL
FO	FLAT OVAL DUCT
FPM	FEET PER MINUTE
FT	FEET, FOOT
FS	FLOW SWITCH
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR

ABBREV.	DESCRIPTION
HWS/R	HOT WATERSUPPLY/ RETURN
HB	HOSE BIBB
HP	HORSEPOWER
HR	HOUR
HGT	HIGH, HEIGHT
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HWP	HOT WATER PUMP
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION (FLOW LINE)
IN	INCHES
IN WG	INCHES OF WATER
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY-BULB TEMPERATURE
LVR	LOUVER
MA	MIXED AIR
MAU	MAKEUP AIR HANDLING UNIT
MAX	MAXIMUM
MD	MANUAL DAMPER
MECH	MECHANICAL
MIN	MINIMUM
NA	NOT APPLICABLE
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
(N)	NEW
NO	NORMALLY OPEN
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PBD	PARALLEL BLADE DAMPER
PCHP	PRIMARY CHILLED WATER PUMP
PD	PRESSURE DROP OR DIFFERENCE
PH	PHASE
PPB	PARTS PER BILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RE: 4M6.01	REFER TO DETAIL 4, SHEET M6.01
REF	REFERENCE, CALLED OUT ELSEWHERE
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SCH	SCHEDULE
SCHP	SECONDARY CHILLED WATER PUMP
SD	SMOKE DAMPER
SF	SUPPLY FAN
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SQ.FT	SQUARE FEET
STD	STANDARD
SW	SWITCH
TEMP	TEMPERATURE
T'STAT	THERMOSTAT
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
UF	UNDER FLOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UTR	UP THROUGH ROOF
V-12	CONTROL VALVE NUMBER
VB	VALVE BOX
VEL	VELOCITY
VENT	VENTILATE
VF	VENTILATION FAN
VOL	VOLUME
VOLT	VOLTAGE
W	WIDE, WIDTH
W/	WITH
WB	WET BULB
W/O	WITHOUT

DUCTWORK SYMBOLS

GENERAL

- ROUND DUCT SECTION
- FLAT OVAL DUCT SECTION
- 12" DIA. ROUND DUCT
- 12" BY 24" FLAT OVAL DUCT
- SUPPLY DUCT SECTION, POSITIVE PRESS.
- EXH., RET., O.A. DUCT SECTION NEGATIVE PRESS.
- DUCTWORK, FIRST NO. IS VISIBLE DIM.
- EXISTING DUCTWORK (LIGHT LINES)
- ACOUSTICALLY LINED DUCT
- DUCT ACCESS DOOR
- FLEXIBLE CONNECTION (DUCT)
- CHANGE OF ELEVATION IN DIRECTION SHOWN R-RISE D-DROP
- BRANCH DUCT WITH VOLUME DAMPER
- SIDEWALL REGISTER
- DUCT WITH TURNING VANES
- PROPORTIONAL SPLIT - DIMENSIONS INDICATE SPLIT
- DAMPER TYPE INDICATED (OBD, PBD)
- MOTORIZED DAMPER TYPE INDICATED (OBD, PBD)
- VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS W/ VANES EVEN IF SYMBOL IS MISSING)
- VANED ELBOW (SHORT RADIUS)
- STANDARD RADIUS ELBOW
- LOUVER
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- LINEAR SUPPLY AIR DEVICE
- LINEAR RETURN AIR DEVICE
- FLEXIBLE DUCT (SINGLE LINE REPRESENTATION)
- FLEXIBLE DUCT (SINGLE LINE REPRESENTATION)
- FLEXIBLE DUCT (DOUBLE LINE REPRESENTATION)
- FAN (SCHEMATIC)
- DPG — DIFFERENTIAL PRESSURE GAUGE
- FSD — COMBINATION FIRE/SMOKE DAMPER AND SLEEVE (PROVIDE ACCESS DOOR)
- FD — FIRE DAMPER
- PBD — MANUAL VOLUME DAMPER TYPE INDICATED (OBD, PBD)
- DEMOLISHED DUCTWORK

FITTINGS

- BLIND FLANGE
- CAP
- POINT OF CONNECTION
- POINT OF DISCONNECT
- COUPLING (JOINT)
- CROSS
- ELBOW, 90°
- ELBOW, 45°
- PIPE DROP
- PIPE RISER
- ELBOW, REDUCING (SHOW SIZE)
- ELBOW, SHORT RADIUS (SR)
- REDUCER, CONCENTRIC
- REDUCER, ECCENTRIC
- TEE
- TEE, OUTLET UP
- TEE, OUTLET DOWN
- TEE, REDUCING (SHOW SIZES)
- UNION, FLANGED
- UNION, SCREWED
- FLANGED CONNECTION

MANUAL VALVES

- AIR
- ANGLE
- BALL
- BUTTERFLY
- DIAPHRAGM
- GATE
- GLOBE
- PLUG
- ISOLATION
- BALANCING

AUTOMATIC CONTROL VALVES

- TWO-WAY
- TWO-WAY BUTTERFLY
- THREE-WAY

DRAWING SYMBOLS

- (2) DEMOLITION NOTE 2
- ⟨2⟩ KEYED NOTE 2
- 2 DETAIL 1/8" = 1'-0" — DETAIL NUMBER 2 AT A DRAWING SCALE OF 1 / 8" = 1' -0"
- 1 / M-2 — SECTION ARROW - SECTION 1, SHEET M-2

DESCRIPTION / DOUBLELINE / SINGLE LINE

- DIRECTION OF FLOW
- DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (DIMENSIONS ARE CLEAR INSIDE) — 24x12
- DUCT CAP
- RECTANGULAR DUCT DROP
- ROUND DUCT DROP
- SUPPLY DUCT TURNING UP
- SUPPLY DUCT TURNING DOWN
- RETURN OR EXHAUST DUCT TURNING UP
- RETURN OR EXHAUST DUCT TURNING DOWN
- FLEXIBLE DIFFUSER DROP
- 12" DIA. ROUND DUCT
- 12" BY 24" FLAT OVAL DUCT
- EXISTING DUCTWORK (LIGHT LINES)
- TRANSITION (ROUND TO ROUND) OR (SQUARE TO SQUARE)
- DUCT TRANSITION (SQUARE TO ROUND)
- TRANSITION TO REGISTER
- 45° RECTANGULAR ELBOW
- 90° RECTANGULAR ELBOW
- 45° RADIUS ELBOW

AIR CONDITIONING

CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY

CONTROLS

T	THERMOSTAT - REMOTE BULB
T TU-1-01	THERMOSTAT SERVING TERMINAL UNIT TU-1-01
H 3	HUMIDISTAT SERVING ZONE 3
F	FIRESTAT
TS	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
C	CARBON DIOXIDE SENSOR

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR MOST ACCURATE LOCATIONS OF WALLS, CEILING GRIDS AND OTHER ARCHITECTURAL ELEMENTS. SHIFT LOCATION OF DIFFUSERS AS REQUIRED TO CONFORM TO ARCHITECTURAL CEILING GRID. WHERE DIFFUSER LOCATIONS ON ARCHITECTURAL AND MECHANICAL DRAWINGS DIFFER SIGNIFICANTLY, NOTIFY ENGINEER.
2. INSTALL BALANCING DAMPER AT BRANCH TAKE-OFF TO EVERY SUPPLY REGISTER AND EVERY EXHAUST REGISTER. DO NOT INSTALL DAMPERS IN TRANSFER DUCTS.
3. LOCATE AND SET THERMOSTATS, TEMPERATURE SENSORS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. PROVIDE VANDAL-PROOF, CLEAR, LOCKABLE ENCLOSURES FOR ALL THERMOSTATS,TEMPERATURE SENSORS AND HUMIDISTATS IN PUBLIC AREAS.
4. PROGRAM EACH THERMOSTAT VIA BAS WITH SCHEDULES AND TEMPERATURES TO SUIT OWNER'S NEED. GIVE TEMPERATURES TO SUIT OWNER'S NEED. GIVE OWNER A RECORD OF ALL SETTINGS.
5. DUCT SHALL BE GALVANIZED SHEET METAL EXCEPT WHERE NOTED. CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS AND MECHANICAL CODE. CONNECT TO REGISTERS WITH FLEX MASTER TYPE 1 INSULATED (MINIMUM R-VALUE EQUAL TO R-6) OR EQUIVALENT FLEX DUCT, EXCEPT WHERE NOTED. DO NOT USE MORE THAN 5 FOOT LENGTH FLEX DUCT TO CONNECT TO A REGISTER.
6. PROVIDE AND INSTALL ALL DUCT TRANSITIONS AND OFFSETS AS REQUIRED ALTHOUGH NOT SHOWN.
7. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF THE WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
8. CONTRACTOR IS RESPONSIBLE TO COORDINATE HIS WORK WITH OTHER TRADES, PARTICULARLY TO PREVENT THE WORK OF OTHER TRADES ENTERING SPACE REQUIRED FOR DUCT AND HVAC EQUIPMENT.
9. DO NOT OPERATE HVAC EQUIPMENT DURING OTHER CONSTRUCTION OPERATIONS UNLESS ALL RETURN INLETS ARE PROTECTED WITH TEMPORARY FILTERS. ALL DUCT AND HVAC EQUIPMENT SHALL BE COMPLETELY CLEAN INTERNALLY UPON COMPLETION OF WORK.
10. PERFORM AIR BALANCE TO ALL CFM FLOWS INDICATED. PROVIDE MARKED UP PLANS INDICATING FINAL BALANCING DATA.
11. COMPLETE AND ADJUST SYSTEMS TO PROPER OPERATION. DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS TO OWNER'S PERSONNEL PRIOR TO COMPLETION OF WORK.
12. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH LOCALLY-ADOPTED VERSION OF IECC, IBC, UMC, UPC, IFC AND NFPA; THE STATE OF TEXAS AND THE APPROVING AUTHORITIES.
13. MECHANICAL SYSTEMS SHALL BE COMMISSIONED IN ACCORDANCE WITH LOCALLY-ADOPTED VERSION OF IECC.
14. ALL EQUIPMENT ABOVE CEILING SPACE TO MAINTAIN MANUFACTURER REQUIRED AND CODE REQUIRED CLEARANCES.
15. NOT ALL PIPING OFFSETS ARE INDICATED ON PLAN. COORDINATE ROUTING OF PIPING WITH OTHER HVAC SYSTEMS AND OTHER DISCIPLINES. PROVIDE OFFSETS AND RISES IN JOIST WHERE REQUIRED TO AVOID CONFLICTS. ARRANGE PIPING, PARTICULARLY ABOVE CEILING, AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUIT, ETC. ALLOWING SPACE FOR PIPE HANGERS, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS AND MAINTENANCE OF EQUIPMENT.
16. FURNISH AIR VENTS AT ALL HIGH SPOTS ON HYDRONIC PIPING.
17. COORDINATE LOCATION OF ALL HVAC EQUIPMENT, DUCT PENETRATIONS, AND PIPE PENETRATIONS WITH STRUCTURAL ENGINEER PRIOR TO CREATING OPENINGS OR SETTING EQUIPMENT.
18. PLENUM SPACE ABOVE ALL CEILINGS IS THE RETURN AIR PLENUM. ALL MATERIALS WITHIN OR IN CONTACT WITH THE PLENUM SHALL BE PLENUM RATED.
19. DRAINS FROM CONDENSATE DRAIN PANS SHALL BE TRAPPED. SLOPE CONDENSATE PIPE PER CODE.
20. PROVIDE 1/2" DRAIN VALVES AND CAPPED CONNECTIONS AT LOW POINTS IN PIPING SYSTEMS FOR DRAINAGE.
21. PROVIDE SWING JOINTS FOR RUN-OUTS AND BRANCH PIPING FROM MAINS FOR EXPANSION MOVEMENT.
22. CORRECT SETTING ON BALANCING FITTINGS SHALL BE PERMANENTLY MARKED.
23. PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATION. ADDITIONAL SUPPORTS OR HANGERS SHALL BE ADJACENT TO ELBOWS TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT. ALL CHILLED WATER ACCESSORIES MATERIAL SHALL BE ONLY BRASS OR BRONZE NICKEL.
24. PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES AND PRESSURE REGULATING VALVES. PROVIDE SHUT-OFF VALVES ON BOTH SIDES OF AUTOMATIC VALVES.
25. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
26. CONTRACTOR SHALL SUBMIT FULLY COORDINATED SHOP DRAWINGS SHOWING ALL MECHANICAL EQUIPMENT AND DEVICES FOR REVIEW BY THE DESIGN TEAM PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL PROPOSED EQUIPMENT LOCATIONS IN DRAWINGS. THIS INCLUDES ALL MAJOR EQUIPMENT ROOMS.
27. LOCATIONS OF MECHANICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

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Drawn G.P.
Checked J.B.
Date 06/06/2022
Project No. MM 20027 / CNG 0023-20
Revisions

SHEET TITLE
MECHANICAL SYMBOLS AND ABBREVIATIONS

SHEET NO.
M000

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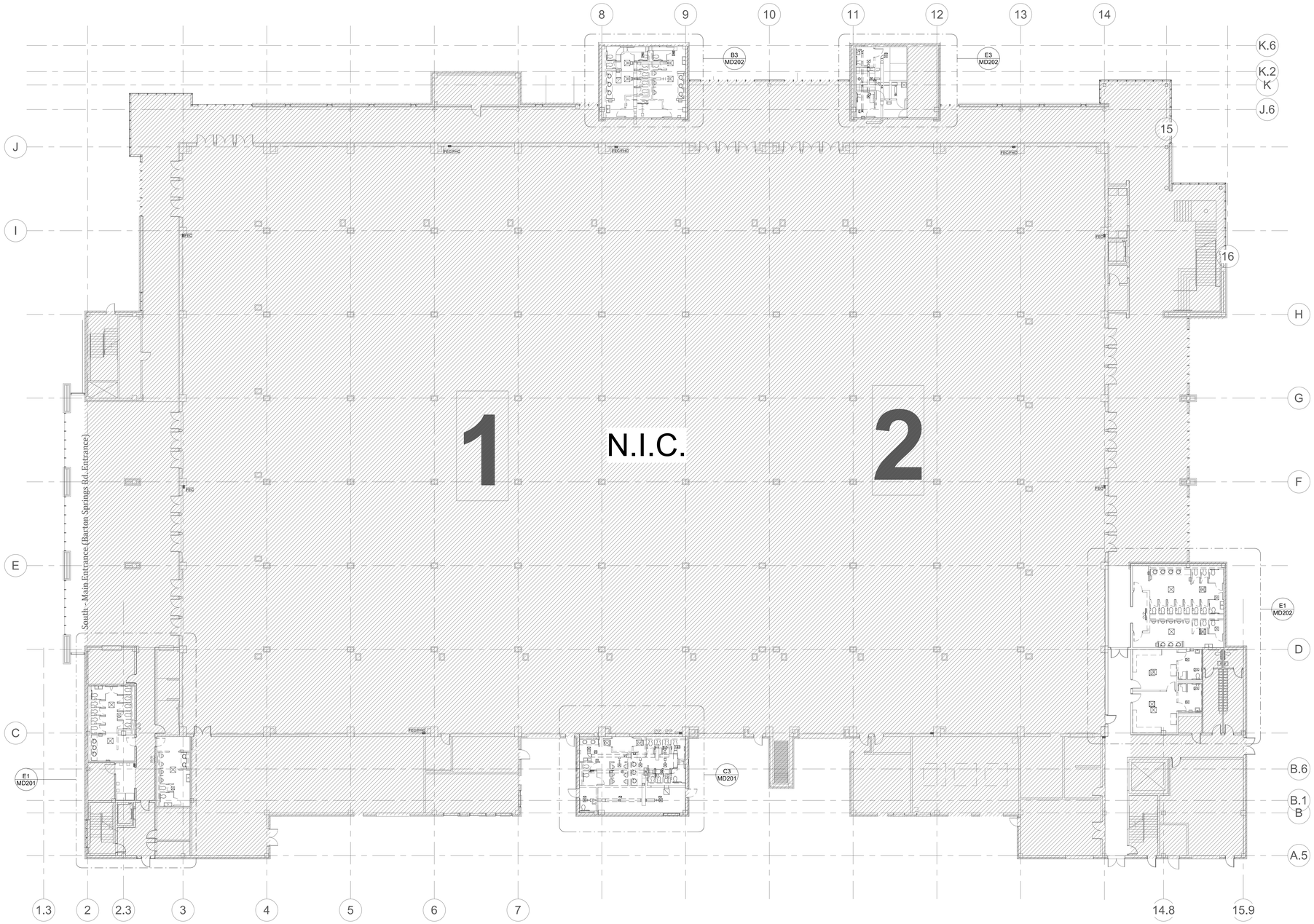
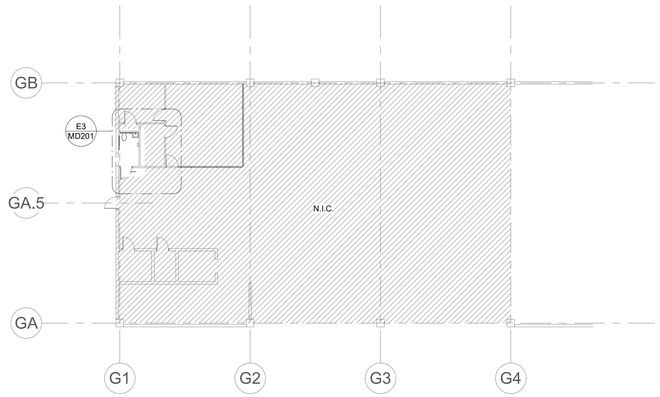


D1 MD101 MECHANICAL - LEVEL 1 - OVERALL DEMOLITION PLAN

1/16" = 1'-0"

NORTH PLAN N.



E2 MD101 MECHANICAL - LEVEL 1 - GARAGE OVERALL DEMO

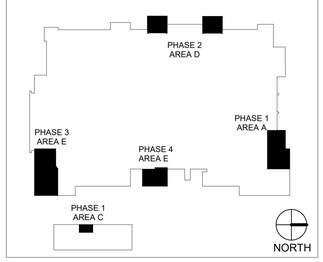
1/16" = 1'-0"

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 1



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SHEET TITLE

LEVEL 1 - OVERALL DEMO PLAN

SHEET NO.

MD101

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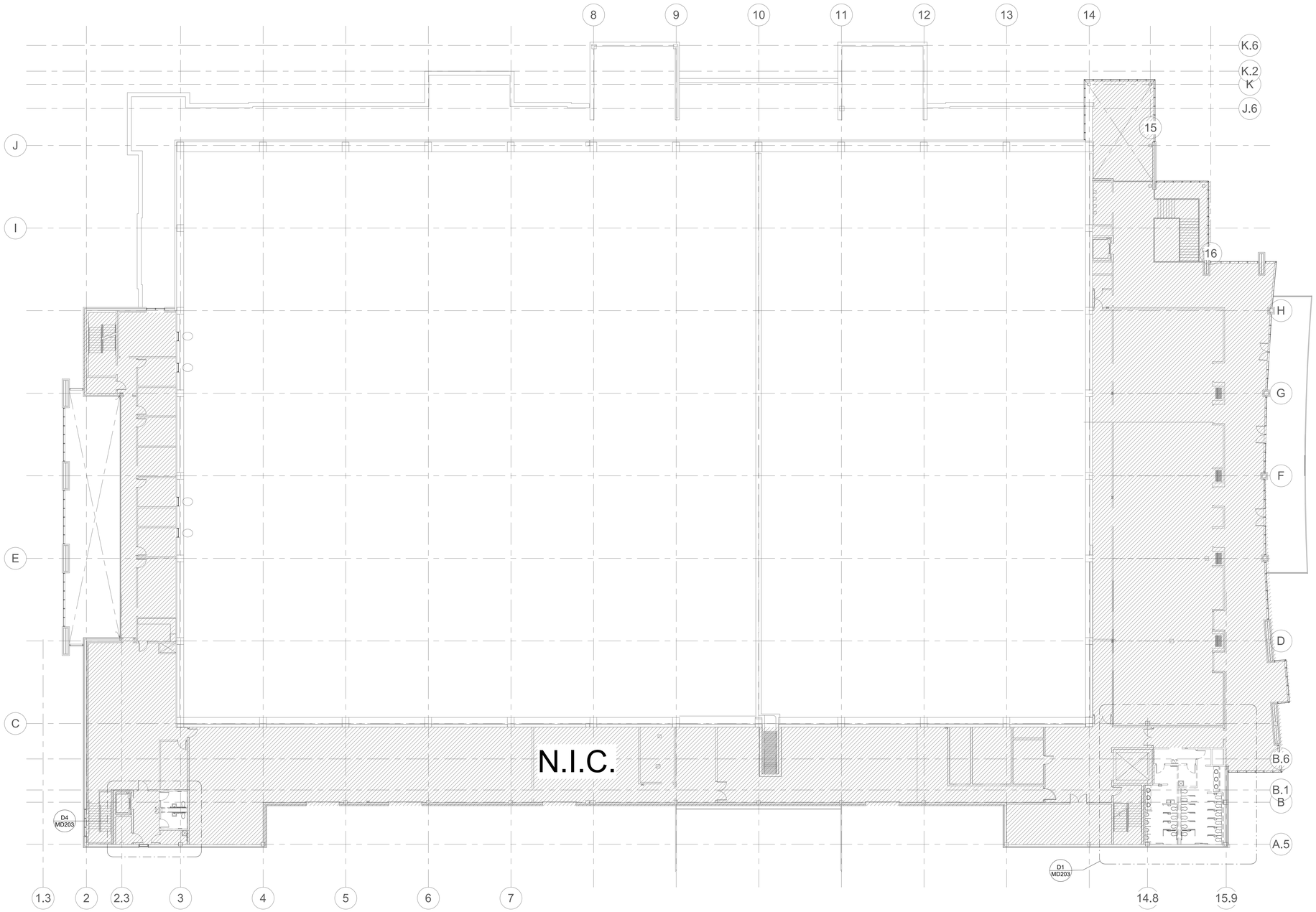


D1 MD102 MECHANICAL - LEVEL 2 - OVERALL DEMOLITION

1/16" = 1'-0"

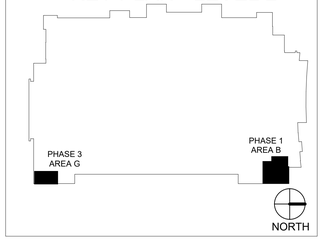
NORTH PLAN N.

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 2



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Revisions	

SHEET TITLE

LEVEL 2 - OVERALL DEMO PLAN

SHEET NO.

MD102

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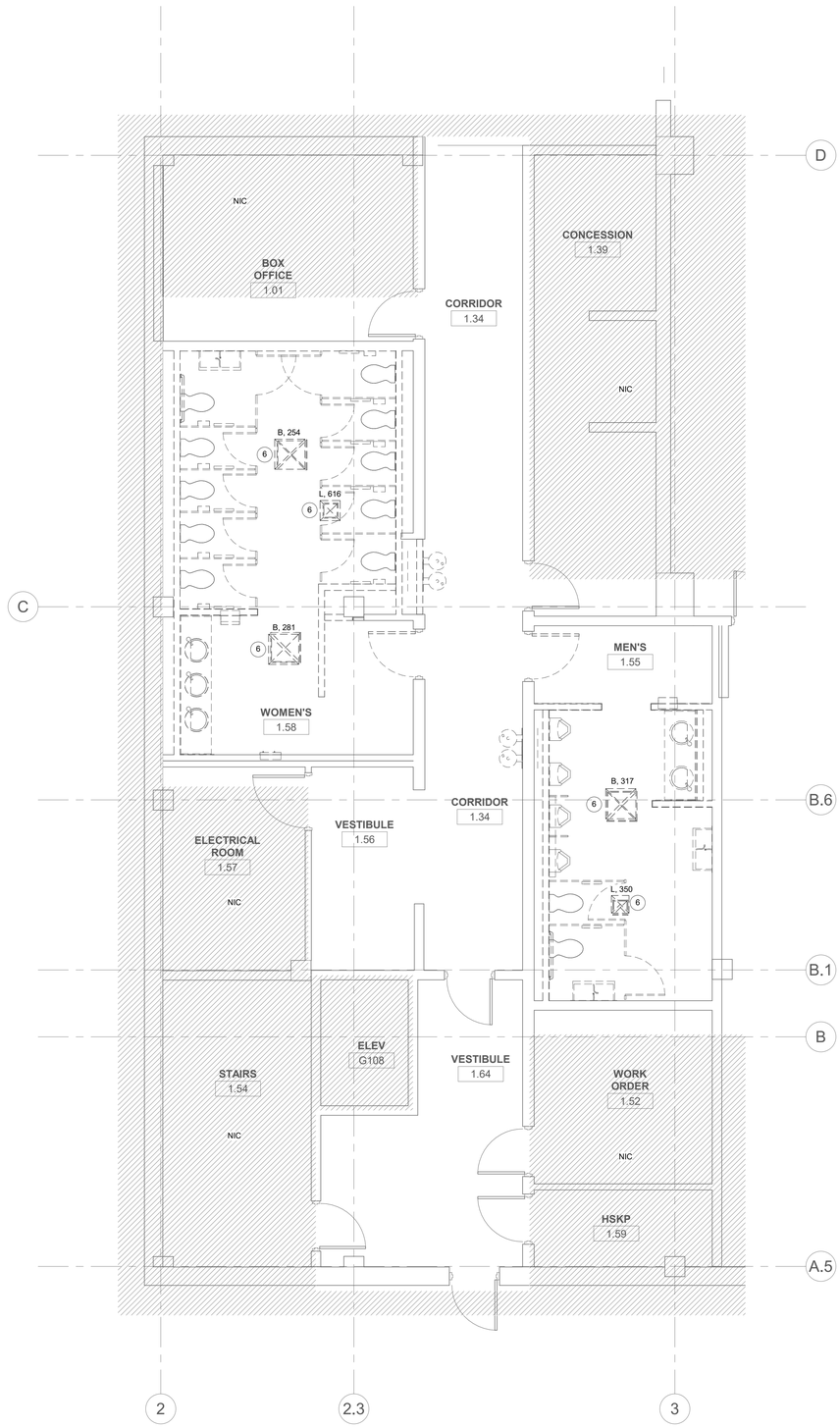
GENERAL NOTES (MD201)

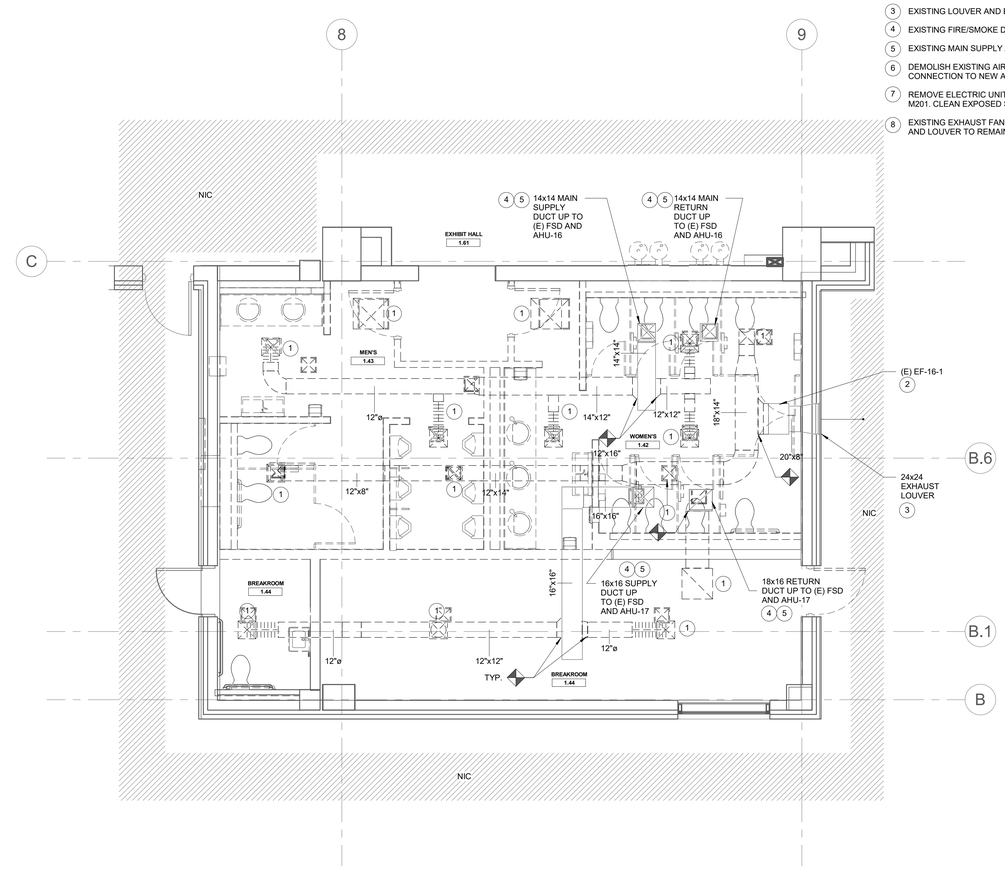
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

KEYED NOTES (MD201)

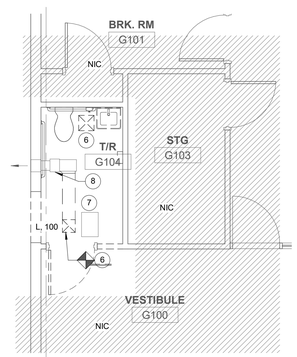
1. DEMOLISH EXISTING AIR DEVICE. REMOVE EXISTING BRANCH DUCTWORK TO MAIN. CAP OPENING WITH MATCHING MATERIAL.
2. EXISTING EXHAUST FAN TO REMAIN.
3. EXISTING LOUVER AND EXISTING DUCTWORK CONNECTION TO REMAIN.
4. EXISTING FIRE/SMOKE DAMPER AT SLAB PENETRATION TO REMAIN.
5. EXISTING MAIN SUPPLY AND RETURN DUCTWORK TO REMAIN.
6. DEMOLISH EXISTING AIR DEVICE. EXISTING DUCTWORK SHALL REMAIN FOR CONNECTION TO NEW AIR DEVICE.
7. REMOVE ELECTRIC UNIT HEATER AND RETAIN FOR REINSTALLATION, RE: M201. CLEAN EXPOSED SURFACES OF THE EXISTING HEATER.
8. EXISTING EXHAUST FAN ABOVE CEILING AND ASSOCIATED DUCTWORK AND LOUVER TO REMAIN.



E1 MECHANICAL - LEVEL 1 - ENLARGED DEMOLITION PLAN - SOUTH RESTROOMS
MD201 1/4" = 1'-0"
NORTH PLAN N.



C3 MECHANICAL - LEVEL 1 - ENLARGED DEMOLITION PLAN - EAST
MD201 1/4" = 1'-0"
NORTH PLAN N.



E3 MECHANICAL - LEVEL 1 - GARAGE ENLARGED DEMOLITION PLAN
MD201 1/4" = 1'-0"
NORTH PLAN N.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1

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MECHANICAL ELECTRICAL PLUMBING
FIRE PROTECTION
SUSTAINABILITY
CNG

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLANS - SOUTH, EAST & GARAGE

SHEET NO.
MD201

6/6/2022 10:15:37 AM
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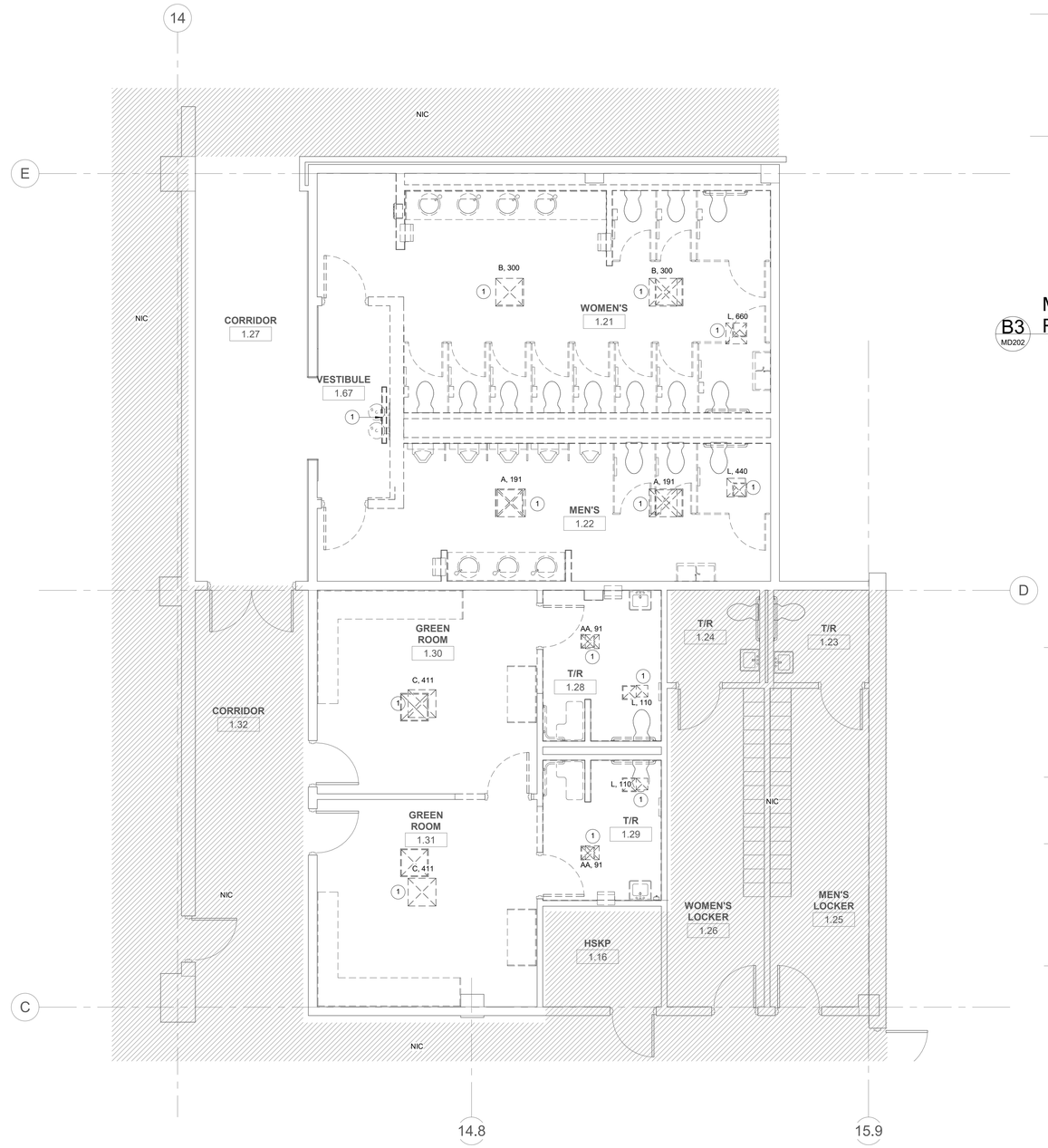
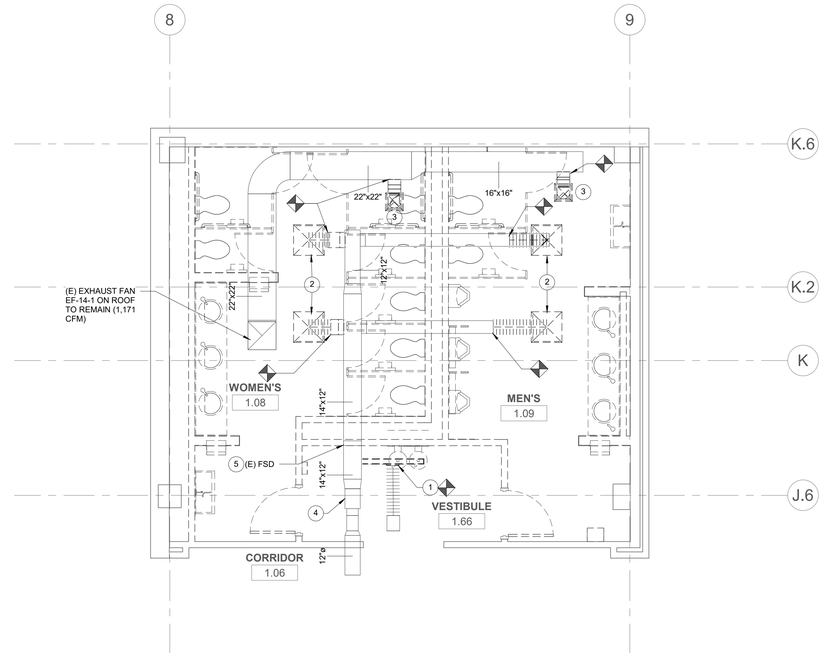


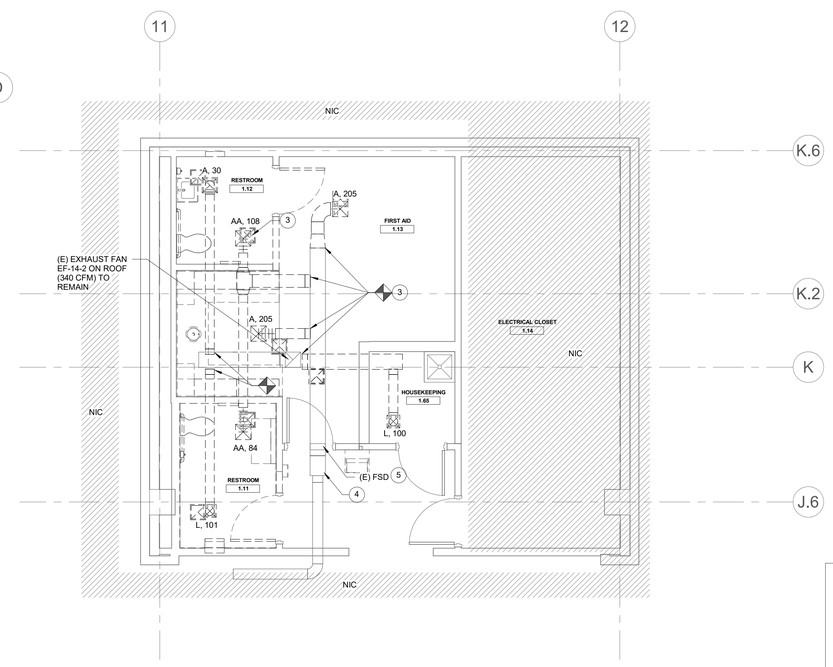
E1 MECHANICAL - LEVEL 1 - ENLARGED DEMOLITION PLAN - NORTH
MD202
1/4" = 1'-0"

NORTH PLAN N.



B3 MECHANICAL - LEVEL 1 - ENLARGED DEMOLITION PLAN - WEST RESTROOMS
MD202
1/4" = 1'-0"

NORTH PLAN N.



E3 MECHANICAL - LEVEL 1 - ENLARGED DEMOLITION PLAN - WEST FAMILY RESTROOMS
MD202
1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (MD202)

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

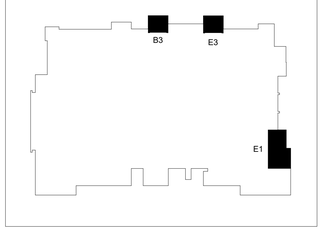
KEYED NOTES (MD202)

1. DEMOLISH EXISTING AIR DEVICE. EXISTING DUCTWORK SHALL REMAIN FOR CONNECTION TO NEW AIR DEVICE.
2. DEMOLISH EXISTING AIR DEVICE AND ASSOCIATED FLEX DUCT. EXISTING BRANCH DUCTWORK SHALL REMAIN FOR CONNECTION TO NEW AIR DEVICES.
3. DEMOLISH EXISTING AIR DEVICE, REMOVE EXISTING DUCTWORK BRANCH BACK TO MAIN, AND PATCH MAIN DUCT TO MATCH EXISTING.
4. EXISTING AIR TERMINAL UNIT TO REMAIN.
5. EXISTING FIRE SMOKE DAMPER TO REMAIN.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLAN - NORTH & WEST

SHEET NO.
MD202

6/6/2022 10:15:40 AM
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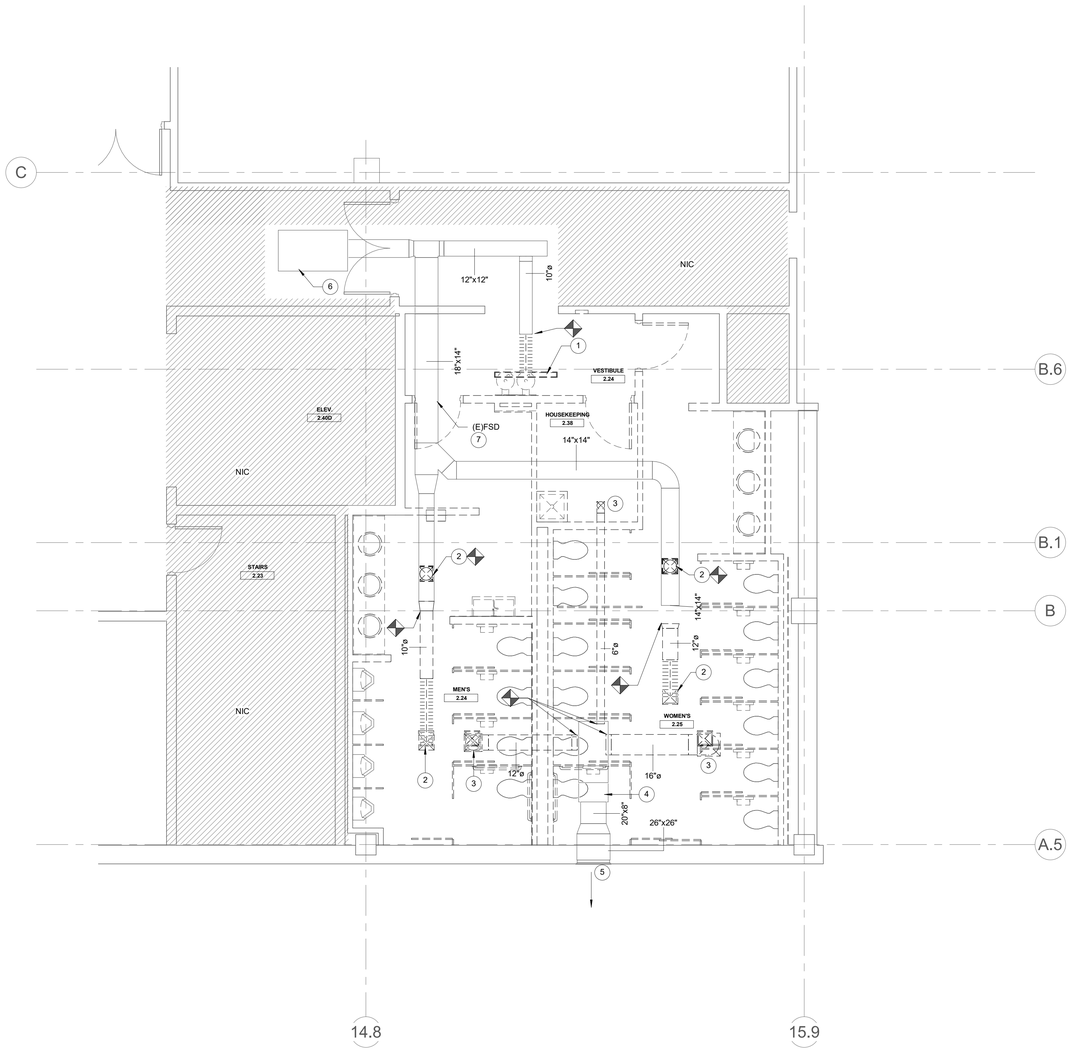
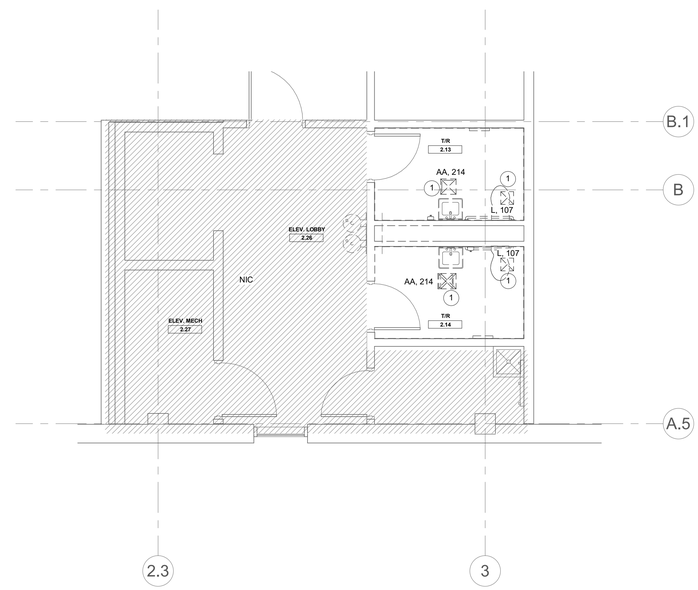


D1 MD203 MECHANICAL - LEVEL 2 - ENLARGED DEMOLITION - NORTH

1/4" = 1'-0"

NORTH PLAN N.



D4 MD203 MECHANICAL - LEVEL 2 - ENLARGED DEMOLITION - STAFF RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

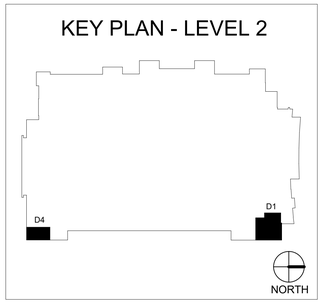
KEYED NOTES (MD203)

1. DEMOLISH EXISTING AIR DEVICE. EXISTING DUCTWORK SHALL REMAIN FOR CONNECTION TO NEW AIR DEVICE.
2. DEMOLISH EXISITNG AIR DEVICE AND ASSOCIATED FLEX DUCT. EXISTING METAL DUCTWORK SHALL REMAIN FOR CONNECTION TO NEW AIR DEVICE.
3. DEMOLISH EXISTING AIR DEVICE, REMOVE EXISTING DUCTWORK BRANCH BACK TO MAIN, AND PATCH MAIN DUCT TO MATCH EXISTING.
4. EXISTING EXHAUST FAN TO REMAIN.
5. EXISTING LOUVER TO REMAIN.
6. EXISTING AIR TERMINAL UNIT TO REMAIN.
7. REMOVE EXISTING FIRE SMOKE DAMPER AND REMAIN FOR REINSTALLATION. PATCH AND INSULATE DUCT TO MATCH EXISTING.

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 2



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Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 2 - ENLARGED DEMO FLOOR PLANS

SHEET NO.
MD203

6/6/2022 10:15:42 AM
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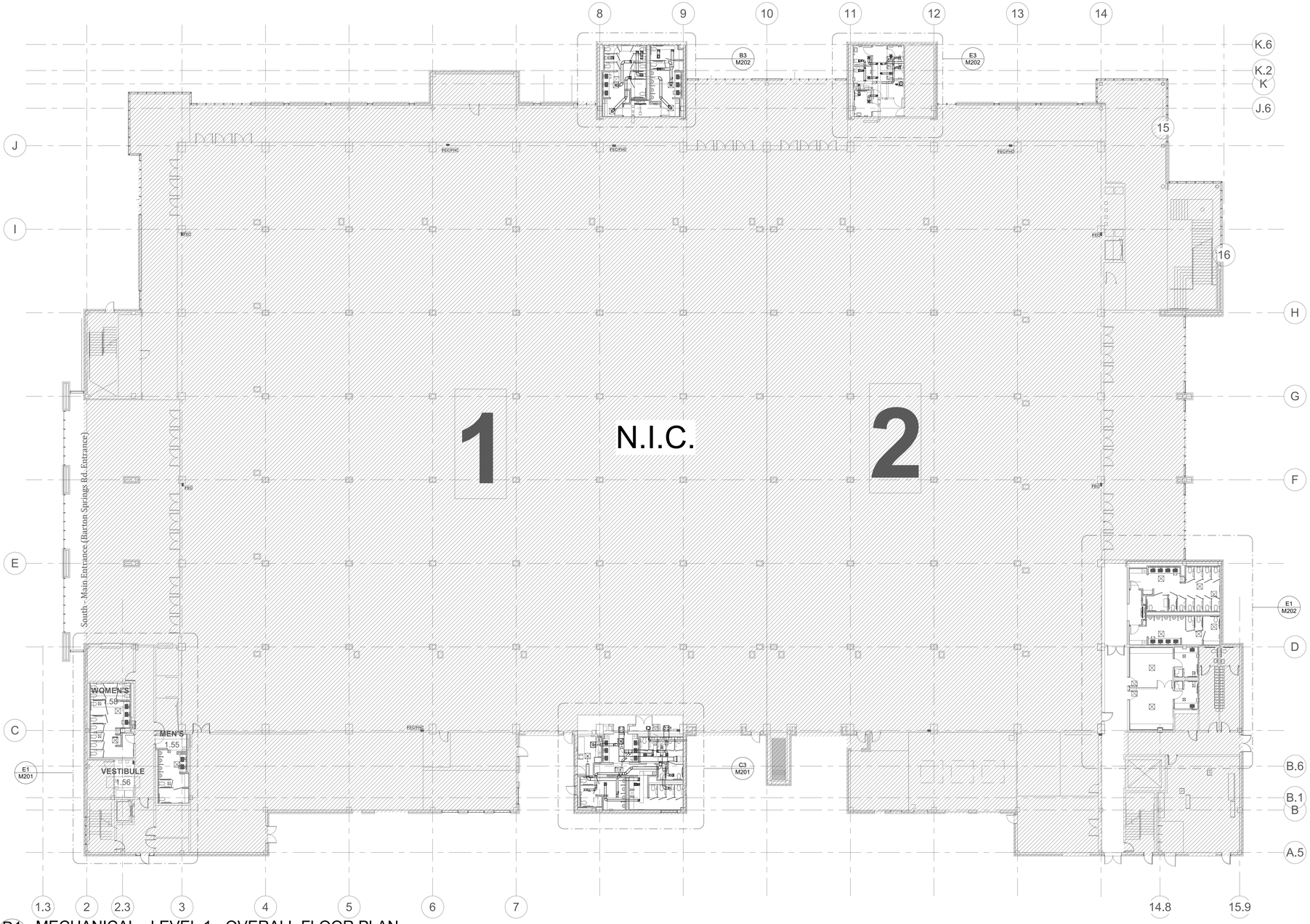
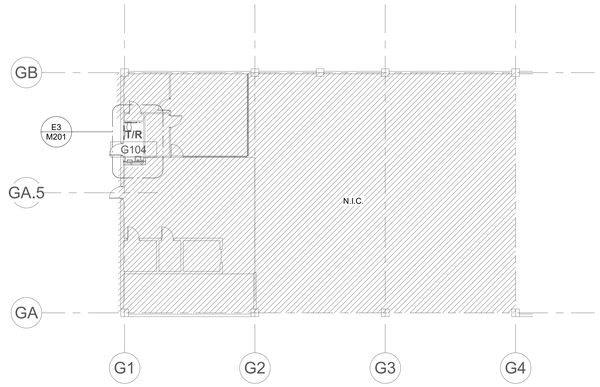


D1 M101 MECHANICAL - LEVEL 1 - OVERALL FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.



E1 M101 MECHANICAL - LEVEL 1 - GARAGE OVERALL FLOOR PLAN

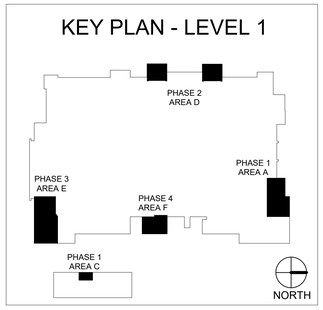
1/16" = 1'-0"

FLOOR PLAN LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 1



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TBPLS FIRM # 10194404

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SHEET TITLE
LEVEL 1 OVERALL FLOOR PLAN

SHEET NO.
M101

6/6/2022 10:15:06 AM
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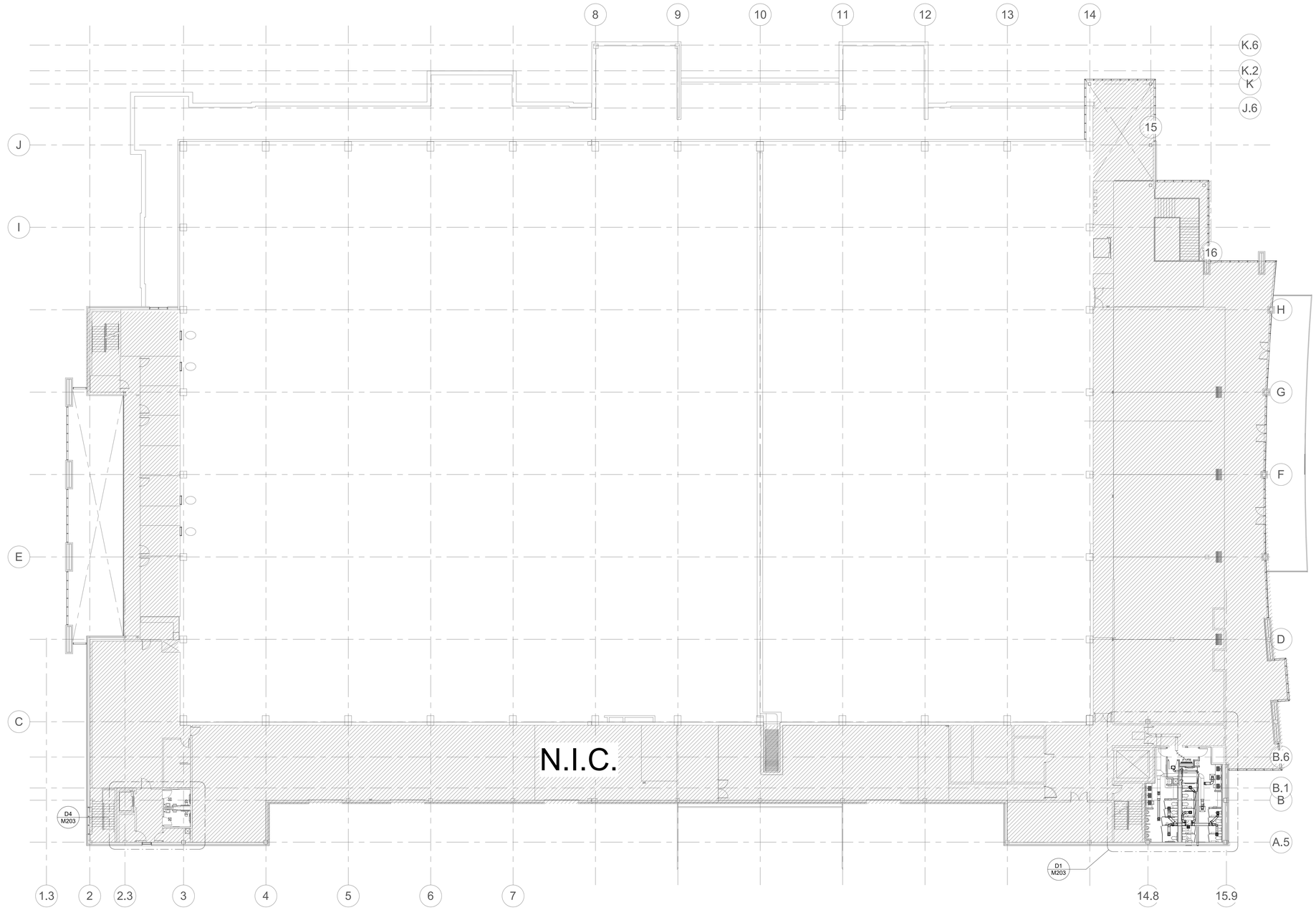


D1 M102 MECHANICAL - LEVEL 2 OVERALL FLOOR PLAN

1/16" = 1'-0"

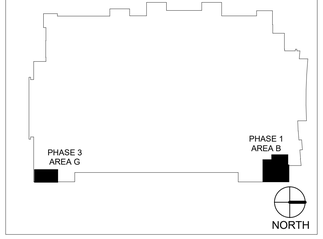
NORTH PLAN N.

FLOOR PLAN LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 2



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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 2 OVERALL FLOOR PLAN

SHEET NO.
M102

6/6/2022 10:15:10 AM
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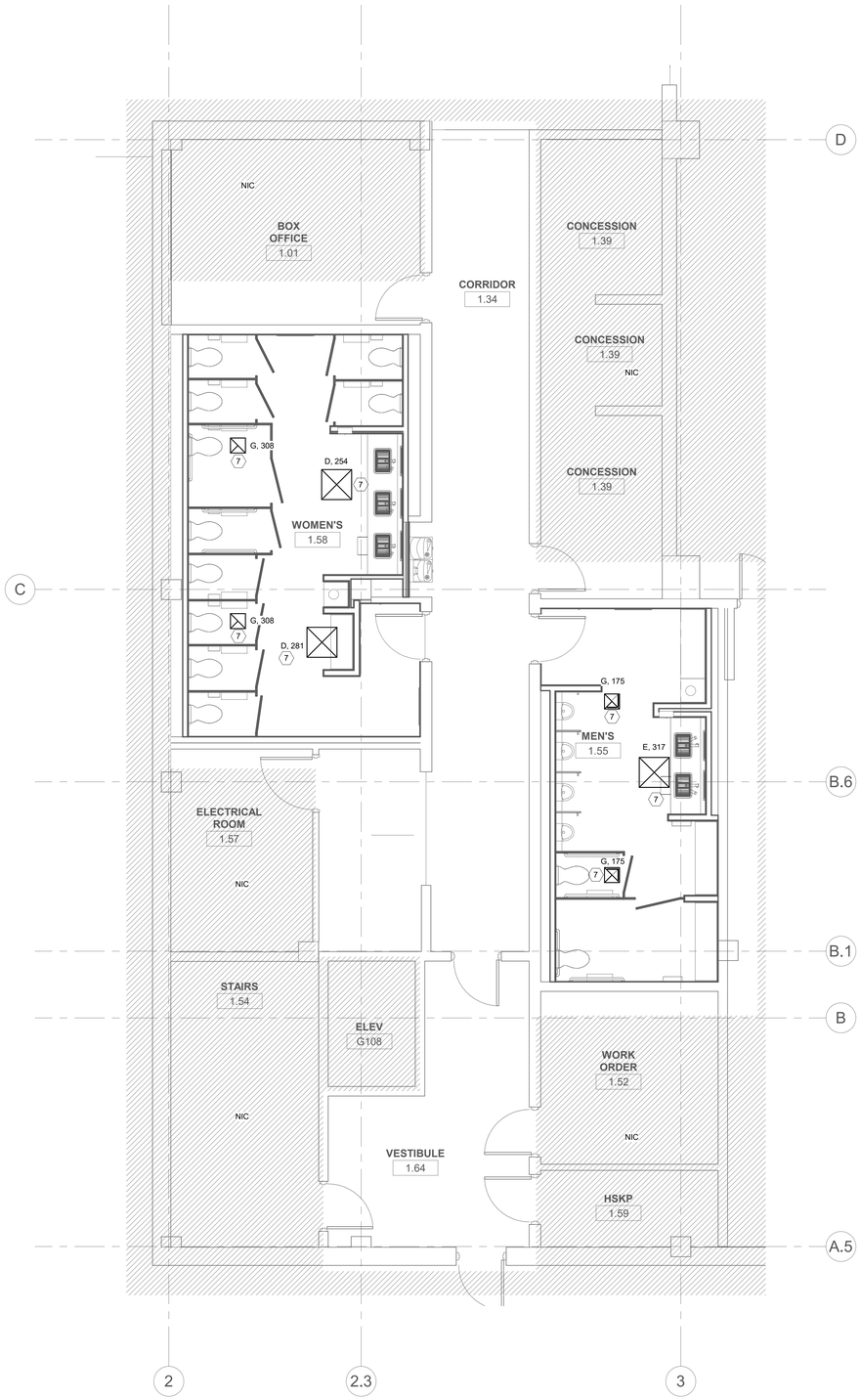
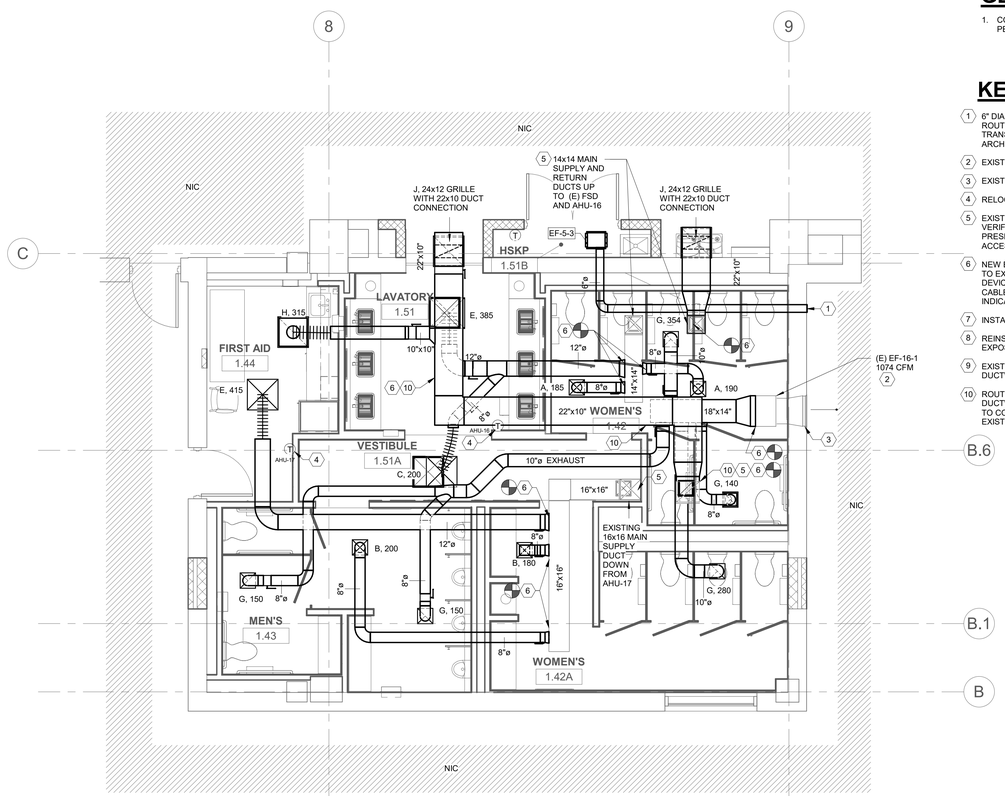


E1 M201 MECHANICAL - LEVEL 1 - ENLARGED FLOOR PLAN - SOUTH

1/4" = 1'-0"

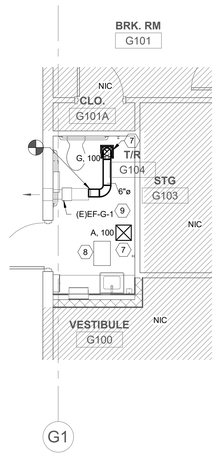
NORTH PLAN N.



C3 M201 MECHANICAL - LEVEL 1 - ENLARGED FLOOR PLAN - EAST

1/4" = 1'-0"

NORTH PLAN N.



E3 M201 MECHANICAL - LEVEL 1 - GARAGE ENLARGED FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

KEYED NOTES (M201)

1. 6" DIA. WALL CAP TERMINATION FOR CEILING EXHAUST FAN. COORDINATE ROUTING WITH EXISTING STRUCTURE AND ALL OTHER TRADES AND TRANSITION DUCTWORK AS REQUIRED. SEAL WATER-TIGHT. REFER TO ARCHITECTURAL FOR COLOR AND FINISH.
2. EXISTING EXHAUST FAN TO REMAIN.
3. EXISTING LOUVER TO REMAIN.
4. RELOCATE EXISTING THERMOSTAT TO NEW LOCATION INDICATED.
5. EXISTING FIRE/SMOKE DAMPER AT SLAB PENETRATION TO REMAIN. VERIFY THAT DUCT ACCESS DOOR OR REMOVABLE DUCT SECTION IS PRESENT AND PROVIDE IF MISSING. PROVIDE UNIT PRICE IN BID FOR DUCT ACCESS DOOR.
6. NEW BRANCH DUCTWORK AND AIR DEVICES. CONTRACTOR TO CONNECT TO EXISTING MAIN DUCT. PROVIDE BALANCING DAMPER FOR EACH AIR DEVICE AS INDICATED AND (IF ABOVE GYP CEILING) PER GUIDELINES OF CABLE-OPERATED DAMPER MANUFACTURER. BALANCE TO AIRFLOW INDICATED.
7. INSTALL NEW AIR DEVICE AND CONNECT TO EXISTING DUCTWORK.
8. REINSTALL EXISTING ELECTRIC UNIT HEATER IN NEW CEILING. CLEAN EXPOSED SURFACES OF THE EXISTING HEATER.
9. EXISTING EXHAUST FAN ABOVE CEILING AND ASSOCIATED DUCTWORK AND LOUVER TO REMAIN.
10. ROUTE NEW 22" X 10" RETURN DUCT ABOVE NEW SUPPLY AND EXHAUST DUCTWORK AS SHOWN, THEN TURN UP AND TRANSITION AS NECESSARY TO CONNECT TO EXISTING 18" X 16" MAIN RETURN DUCT RISING TO EXISTING AHU-17.

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CITY OF AUSTIN

PALMER EVENTS CENTER

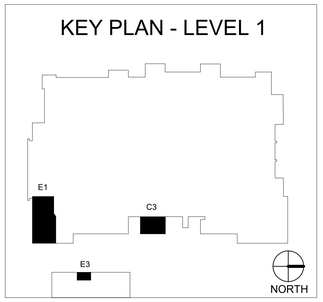
PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

FLOOR PLAN LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1

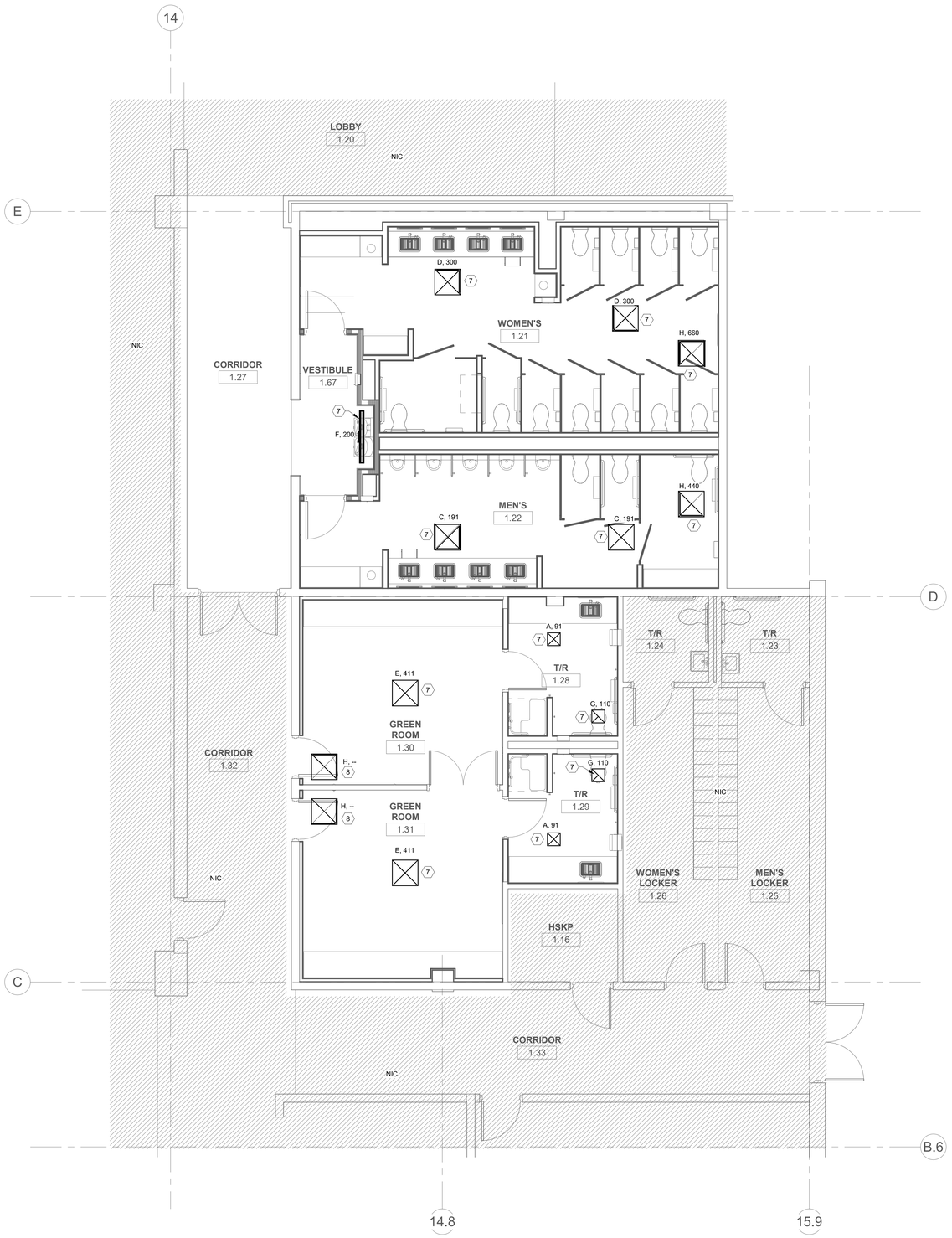


Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED FLOOR PLANS - SOUTH, EAST & GARAGE

SHEET NO.
M201

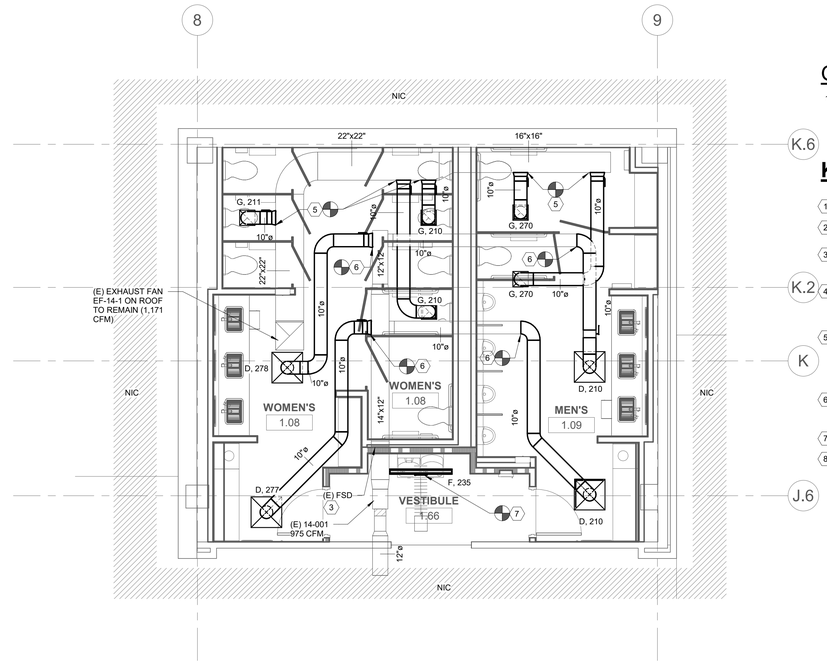
6/6/2022 10:15:14 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\Palmer Events Center Plumbing Upgrade CoA-REC Retrovations CNG_R19_central.rvt



E1 M202 MECHANICAL - LEVEL 1 - ENLARGED FLOOR PLAN - NORTH

1/4" = 1'-0"

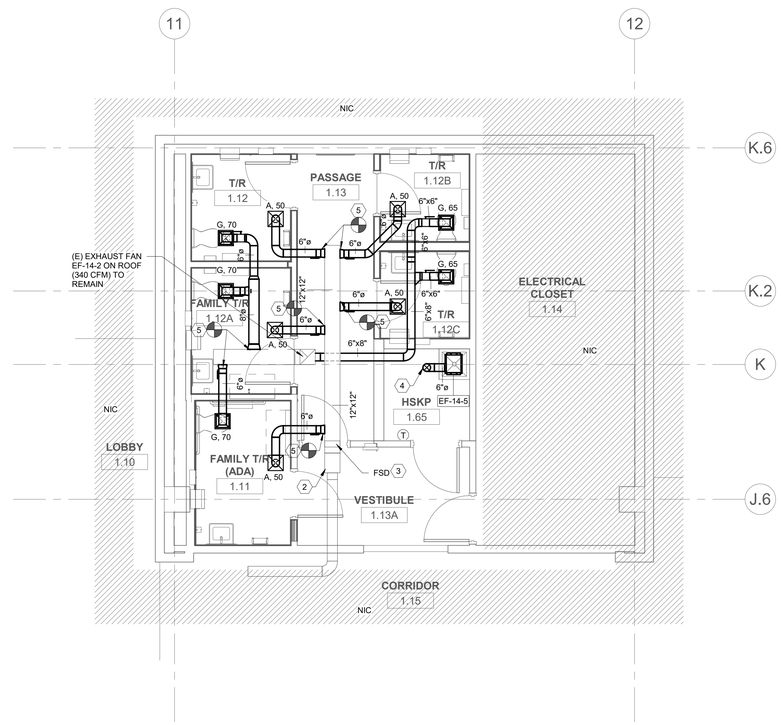
NORTH PLAN N.



B3 M202 MECHANICAL - LEVEL 1 - ENLARGED FLOOR PLAN - WEST RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.



E3 M202 MECHANICAL - LEVEL 1 - ENLARGED FLOOR PLAN - WEST FAMILY RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

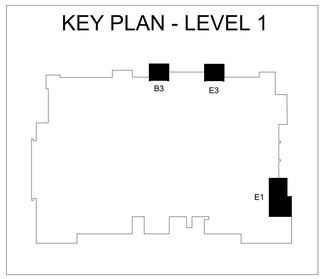
KEYED NOTES (M202)

1. EXISTING AIR TERMINAL UNIT TO REMAIN.
2. EXISTING AIR TERMINAL UNIT TO REMAIN. REVISE AIRFLOW SETPOINT LOWER TO NEW AIRFLOW ON PLAN.
3. EXISTING FIRE SMOKE DAMPER TO REMAIN. VERIFY THAT DUCT ACCESS DOOR OR REMOVABLE DUCT SECTION IS PRESENT AND PROVIDE IF MISSING. PROVIDE UNIT PRICE IN BID FOR DUCT ACCESS DOOR.
4. 6" DIA. EXHAUST DUCT UP TO ROOF. PROVIDE ROOF CAP PER FAN SCHEDULE. COORDINATE DUCT ROUTING WITH EXISTING STRUCTURE AND ALL OTHER TRADES AND TRANSITION DUCTWORK AS REQUIRED. SEAL WATER-TIGHT. REFER TO ARCHITECTURAL FOR COLOR AND FINISH.
5. NEW BRANCH DUCTWORK AND AIR DEVICES. CONTRACTOR TO CONNECT TO EXISTING MAIN DUCT. PROVIDE BALANCING DAMPER FOR EACH AIR DEVICE AS INDICATED AND (IF ABOVE GYP CEILING) PER GUIDELINES OF CABLE-OPERATED DAMPER MANUFACTURER. BALANCE TO AIRFLOW INDICATED.
6. NEW BRANCH DUCTWORK AND AIR DEVICE. CONTRACTOR TO CONNECT TO EXISTING MAIN DUCT. PROVIDE BALANCING DAMPER ONLY IF PRIOR MEANS OF BALANCING WAS DEMOLISHED. BALANCE TO AIRFLOW INDICATED.
7. INSTALL NEW AIR DEVICE AND CONNECT TO EXISTING DUCTWORK.
8. PROVIDE NEW RETURN AIR GRILLE WITH PRICE RAC, SOUND BOOT, OR APPROVED EQUAL.

FLOOR PLAN LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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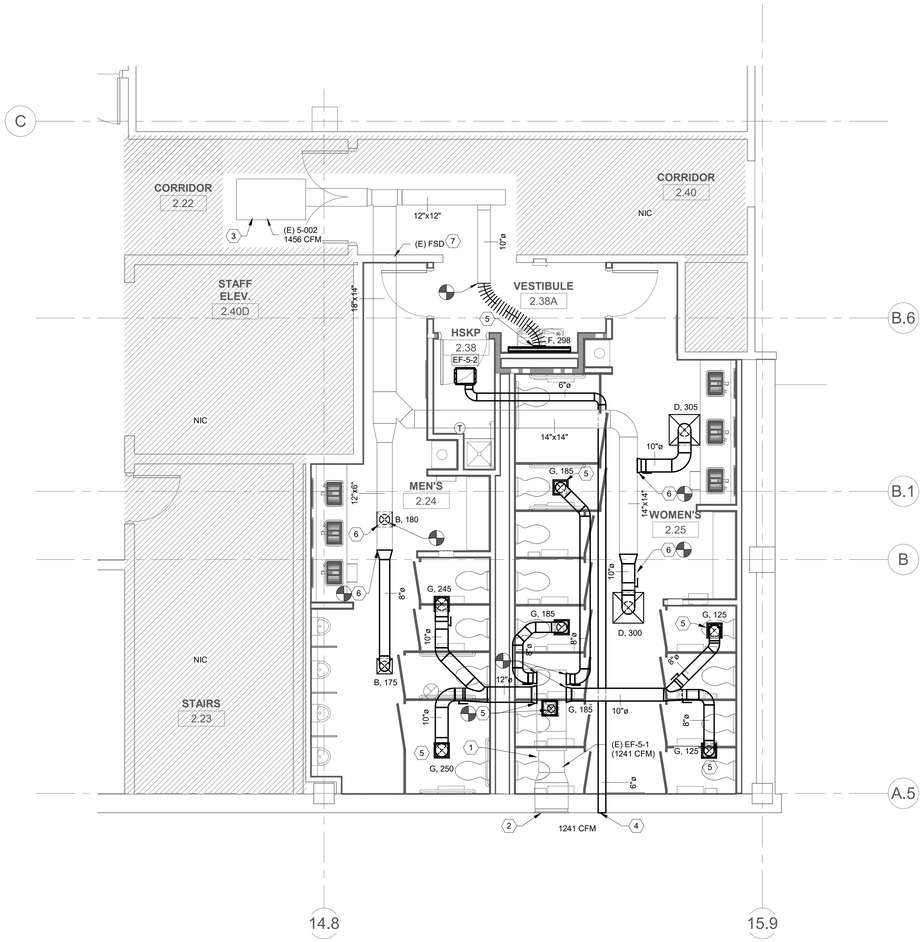
Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED FLOOR PLAN - NORTH & WEST

SHEET NO.
M202

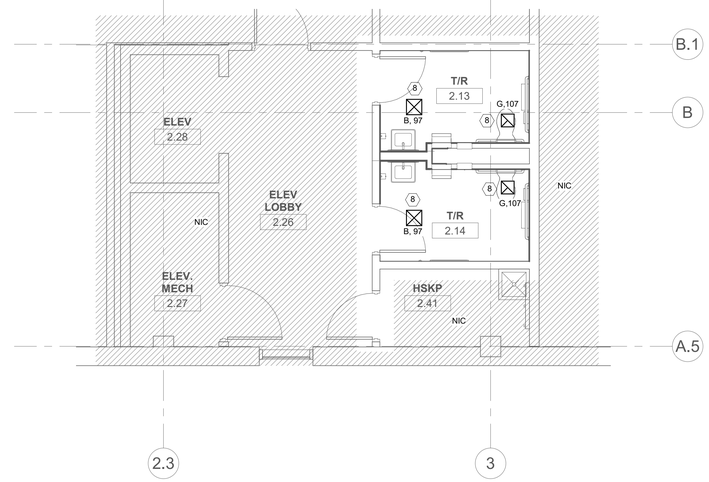
6/6/2022 10:15:19 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\20023-20 CoA PEC Plumbing and RR Renovations CNG_R19_central.rvt



D1 M203 MECHANICAL - LEVEL 2 - ENLARGED FLOOR PLAN - NORTH

1/4" = 1'-0"

NORTH PLAN N.



D4 M203 MECHANICAL - LEVEL 2 - ENLARGED FLOOR PLAN - STAFF RESTROOMS

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (M203)

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK.

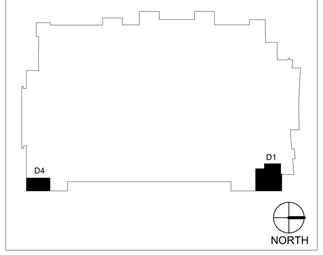
KEYED NOTES (M203)

1. EXISTING EXHAUST FAN TO REMAIN.
2. EXISTING LOUVER TO REMAIN.
3. EXISTING AIR TERMINAL UNIT TO REMAIN.
4. 6" DIA. WALL CAP TERMINATION PER FAN SCHEDULE. COORDINATE ROUTING WITH EXISTING STRUCTURE AND ALL OTHER TRADES AND TRANSITION DUCTWORK AS REQUIRED. SEAL WATER-TIGHT. REFER TO ARCHITECTURAL FOR COLOR AND FINISH.
5. NEW BRANCH DUCTWORK AND AIR DEVICES. CONTRACTOR TO CONNECT TO EXISTING MAIN DUCT. PROVIDE BALANCING DAMPER FOR EACH AIR DEVICE AS INDICATED AND PER GUIDELINES OF CABLE-OPERATED DAMPER MANUFACTURER. BALANCE TO AIRFLOW INDICATED.
6. NEW BRANCH DUCTWORK AND AIR DEVICE. CONTRACTOR TO CONNECT TO EXISTING MAIN DUCT. PROVIDE BALANCING DAMPER ONLY IF PRIOR MEANS OF BALANCING WAS DEMOLISHED. BALANCE TO AIRFLOW INDICATED.
7. REINSTALL EXISTING FIRE SMOKE DAMPER IN EXISTING DUCT. PROVIDE DUCT ACCESS DOOR OR REMOVABLE DUCT SECTION. EXTEND POWER AND FIRE ALARM AS REQUIRED.
8. INSTALL NEW AIR DEVICE AND CONNECT TO EXISTING DUCTWORK.

FLOOR PLAN LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 2



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REG. NO. F-7964

CNGENGINEERING
MECHANICAL ELECTRICAL PLUMBING
FIRE PROTECTION
LIFE SAFETY
TEXAS REGISTERED ENGINEERING FIRM F-7964

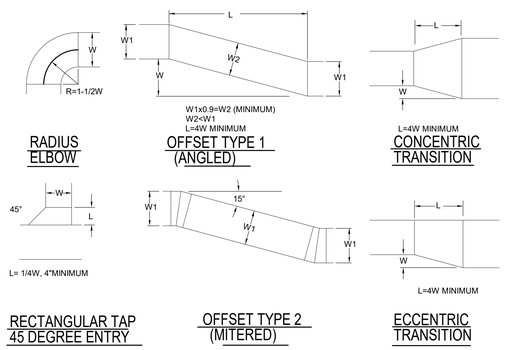
CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

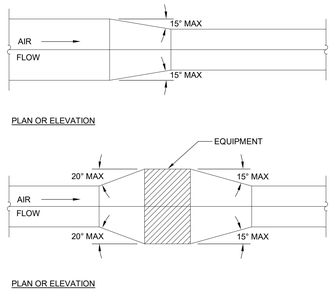
SHEET TITLE
LEVEL 2 - ENLARGED FLOOR PLANS - NORTH

SHEET NO.
M203

6/6/2022 10:15:22 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\MM 20027 CoA PEC Plumbing 2020-20 CoA-REC Renovations CNG_R19_central.rvt

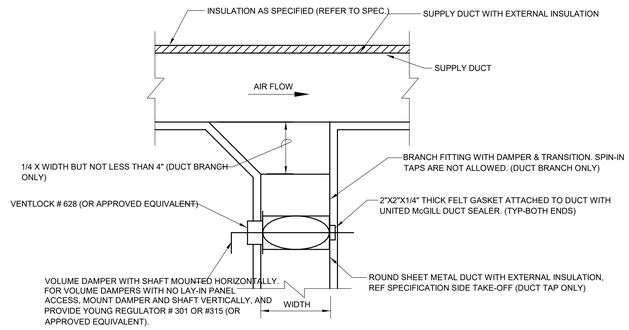


1B STANDARD DUCT CONSTRUCTION DETAIL
NOT TO SCALE



NOTEUNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN ABOVE SHALL APPLY.

2B DUCT TRANSITION DETAIL
NOT TO SCALE

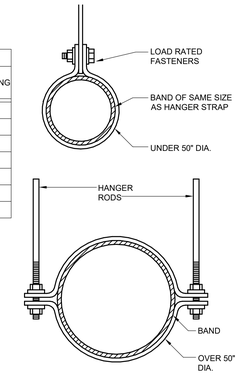


4B DUCT BRANCH/TAP DETAIL
NOT TO SCALE

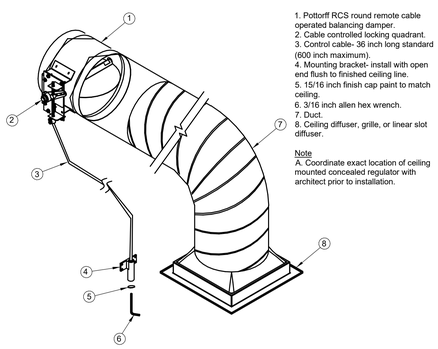
HANGER SIZING AND SPACING SCHEDULE					
MAX. DUCT DIA.	WIRE (DIA.)	ROD	STRAP	MAX. LOAD LBS.	MAX. SPACING FT.
10"	ONE 12 GA.	ONE 1/4"	ONE 1" x 22 GA.	260	12"
18"	TWO 12 GA.	ONE 1/4"	ONE 1" x 22 GA.	260	12"
24"	TWO 10 GA.	ONE 1/4"	ONE 1" x 22 GA.	260	12"
36"	TWO 8 GA.	ONE 3/8"	ONE 1" x 22 GA.	320	12"
50"	N/A	TWO 3/8"	TWO 1" x 20 GA.	700	12"
60"	N/A	TWO 3/8"	TWO 1" x 18 GA.	1320	12"
84"	N/A	TWO 1/2""	TWO 1" x 16 GA.	2500	12"

NOTE:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.
2. STRAPS SHALL NOT BE USED ON EXPOSED DUCTWORK.



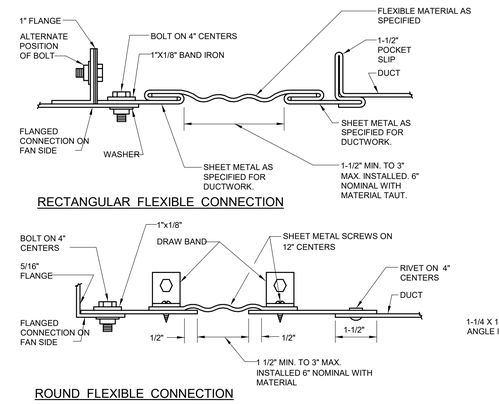
5B ROUND DUCT HANGERS DETAIL
NOT TO SCALE



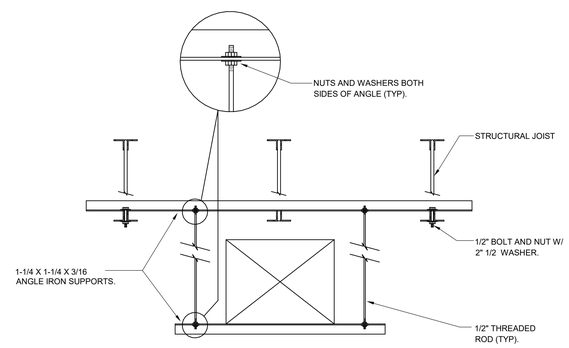
1. Pottorff RCS round remote cable operated balancing damper.
2. Cable controlled locking quadrant.
3. Control cable- 36 inch long standard (600 inch maximum).
4. Mounting bracket- install with open end flush to finished ceiling line.
5. 15/16 inch finish cap paint to match ceiling.
6. 3/16 inch allen hex wrench.
7. Duct.
8. Ceiling diffuser, grille, or linear slot diffuser.

Note
A. Coordinate exact location of ceiling mounted concealed regulator with architect prior to installation.

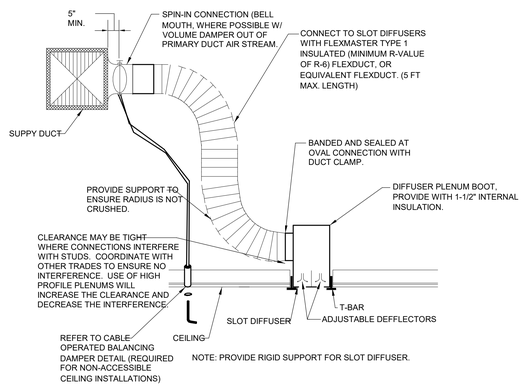
1D POTTOROFF MODEL RCS REMOTE CABLE OPERATED BALANCING DAMPER DETAIL
NOT TO SCALE



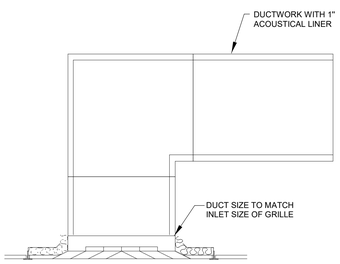
2D DUCT FLEXIBLE CONNECTION DETAIL
NOT TO SCALE



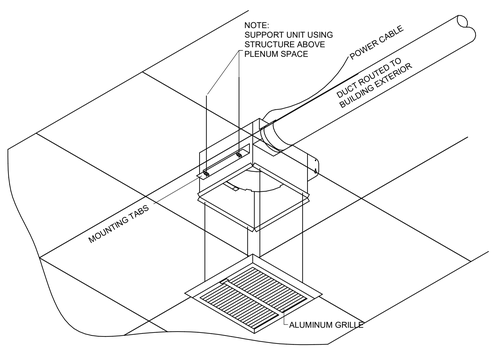
4D DUCT HANGER DETAIL
NOT TO SCALE



5D SUPPLY AIR SLOT DIFFUSER DETAIL
NOT TO SCALE

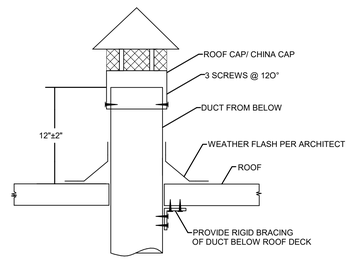


1E SOUND BOOT DETAIL
NOT TO SCALE



*NOTE
2'x2' LAY IN CEILING SHOWN.

2E BATHROOM EXHAUST FAN DETAIL
NOT TO SCALE



4E ROOF CAP DETAIL
NOT TO SCALE

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PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	G.P.
Checked	J.B.
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
MECHANICAL DETAILS

SHEET NO.
M401

6/6/2022 10:15:24 AM
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AIR DEVICE SCHEDULE

MARK	SELECTION REFERENCE IS TITUS MODEL (U.N.O.)	SUPPLY	RETURN	EXHAUST	MODULE SIZE (IN.)	THROW FT (@ 100 FPM)	CFM RANGE	INLET SIZE (IN)	# SLOTS -	O.B.D. REQ'D. (Y/N)	P.D. (" WG)	MAX. N.C.	MATERIAL	NOTES
A	TMS-AA	X			12"X12"	6	10-120	6" Ø	-	REFER TO DRAWINGS	0.02	-	ALUMINUM	1,2,3
B	TMS-AA	X			12"X12"	8	125-240	8" Ø	-	REFER TO DRAWINGS	0.02	12	ALUMINUM	1,2,3
C	TMS-AA	X			24"X24"	6	125-250	8" Ø	-	REFER TO DRAWINGS	0.02	12	ALUMINUM	1,2,3
D	TMS-AA	X			24"X24"	11	250-325	10" Ø	-	REFER TO DRAWINGS	0.04	14	ALUMINUM	1,2,3
E	TMS-AA	X			24"X24"	13	325-450	12" Ø	-	REFER TO DRAWINGS	0.07	12	ALUMINUM	1,2,3
F	FL-15	X			48"X4"	11	100-300	10" Ø	1 @ 1.5"	REFER TO DRAWINGS	0.02	13	ALUMINUM	1,2,3,4
G	50F		X	X	12"X12"	-	10-435	10"X10"	-	REFER TO DRAWINGS	0.12	20	ALUMINUM	1,2,3,4
H	50F		X		24"X24"	-	10-3000	22"X22"	-	REFER TO DRAWINGS	0.1	20	ALUMINUM	1,2,3,4
J	50F		X		24"X12"	-	10-980	24"X12"	-	REFER TO DRAWINGS	0.1	20	ALUMINUM	1,2,3,4

NOTES:

1. P.D. (" WG) IS AT MAX. CFM.
2. FURNISH CABLE OPERATED VOLUME DAMPER FOR NON ACCESSIBLE CEILINGS OR WALL INSTALLATIONS. VOLUME DAMPERS SHALL BE ADJUSTABLE WITH STANDARD TOOLS. PROVIDE POSITIVE BALANCING TO MAINTAIN DESIGN AIR FLOW AND NOISE CRITERIA.
3. FURNISH AND INSTALL AIR DEVICE WITH LAY-IN BORDER FRAME FOR LAY IN CEILINGS OR SURFACE MOUNTING FRAME FOR MOUNTING IN GYP. BOARD CEILING, WALL OR ON DUCT.

FAN SCHEDULE

MARK	LOCATION	TYPE	AREA SERVED	CONTROL	CFM	S.P. (IN. WG)	FAN RPM	MOTOR HP	BRAKE HP/WATTS	V/PH	MAX. SONES	DRIVE	MANUFACTURER	MODEL	WEIGHT LBS	NOTES
EF-14-5	CEILING	CENTRIFUGAL	HSKP 1.65 LEVEL 1 - WEST	WALL SWITCH	75	0.20	675	1/10	.01	115/1	1	DIRECT	GREENHECK	SP-B70	9	2, 3
EF-5-2	CEILING	CENTRIFUGAL	HSKP 2.38 LEVEL 2 - NORTH	WALL SWITCH	75	0.20	675	1/10	.01	115/1	1	DIRECT	GREENHECK	SP-B70	9	1, 2
EF-5-3	CEILING	CENTRIFUGAL	HSKP 1.51B LEVEL 1 - EAST	WALL SWITCH	75	0.20	675	1/10	.01	115/1	1	DIRECT	GREENHECK	SP-B70	9	1, 2

NOTES:

1. PROVIDE WITH 6"X6" ALUMINUM END CAP WITH INTEGRAL GRAVITY BACKDRAFT DAMPER AT WALL TERMINATION TO EXTERIOR. BACKDRAFT DAMPER AT FAN IS NOT NEEDED.
2. PROVIDE WITH WALL MOUNTED ON/OFF SWITCH, SEPARATE FROM LIGHT SWITCH.
3. PROVIDE WITH 6"X6" ALUMINUM ROOF CAP WITH INTEGRAL GRAVITY BACKDRAFT DAMPER. BACKDRAFT DAMPER AT FAN IS NOT NEEDED.
4. PROVIDE WITH ELECTRICAL DISCONNECT SWITCH AND INSTALL ABOVE CEILING OR OTHERWISE INACCESSIBLE TO PUBLIC. CONTROL FAN WITH DIV 26 OCCUPANCY SENSOR THAT CONTROLS LIGHTING. COORDINATE WITH ELECTRICAL CONTRACTOR AND PROVIDE ANY ADDITIONAL RELAYS NECESSARY.

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Drawn	G.P.
Checked	J.B.
Date	06/06/2022
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Revisions	

SHEET TITLE
MECHANICAL SCHEDULES

SHEET NO.
M501

6/6/2022 10:15:25 AM
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PLUMBING SYMBOLS & ABBREVIATIONS

(NOTE: ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS)

PIPING DESIGNATIONS

CW	DOMESTIC POTABLE COLD WATER
HW	DOMESTIC HOT WATER SUPPLY
HWR	DOMESTIC HOT WATER RETURN
V	VENT
SS	SANITARY
TW	DOMESTIC TEMPERED WATER
TWR	DOMESTIC TEMPERED WATER RETURN

GENERAL SYMBOLS

101	ROOM NUMBER
P.3-1A	DRAWING SECTION DESIGNATION
P.4-1A	DETAIL DESIGNATION
P / 1	PLUMBING RISER
2	KEYED NOTES
2	REVISIONS
	CONNECTION TO EXISTING
	POINT OF DISCONNECT
	SCHEMATIC FAN OR PUMP
S	TEMPERATURE SENSOR

NOTE: DRAWING CATEGORY IS NOT INDICATED IF DETAIL OR SECTION DESIGNATION REFERS TO SAME CATEGORY.

PIPE SYMBOLS

GENERAL

- DEMOLISHED PIPE
- EXISTING PIPE TO REMAIN
- NEW PIPE

PIPING DEVICES

SV	STOP, SHUT-OFF OR GATE VALVE
GV	BY-PASS OR GLOBE VALVE
BV	BALANCING VALVE
	BALL VALVE
	BUTTERFLY VALVE
CKV	CHECK VALVE, FLOW AS SHOWN
	MOTOR OPERATED VALVE
	SOLENOID VALVE (TWO AND THREE WAY)
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	FLEXIBLE CONNECTION
	PIPE GUIDE
M	FLOW MEASURING STATION
T	DIAL THERMOMETER
P	PRESSURE GAUGE
	THERMOMETER
	THERMOMETER WELL
P&T	PRESS. & TEMP. TEST PLUG
	SLOPE DN IN DIRECTION SHOWN
	FLOW DIRECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAPPED PIPE TERMINATION
	ELBOW DOWN
	ELBOW UP
	CONNECTION BOTTOM OF MAIN
	CONNECTION SIDE OF MAIN
	CONNECTION TOP OF MAIN
	45 DEGREE OFFSET DOWN
	PIPE UP AND DOWN
	PIPE UP AND DOWN
	HOSE BIBB
	FLOOR DRAIN
	DOUBLE CHECK BACKFLOW PREVENTER

EQUIPMENT DESIGNATIONS

ABC-1	EQUIPMENT TYPE FROM LIST - SCHEDULED UNIT NUMBER
AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
B	BOILER
BFP	BOILER FEEDWATER PUMP
BP	BOOSTER PUMP (WATER PRESSURE)
BR	BASEBOARD RADIATION
BS	BLOWDOWN SEPARATOR
C	CHILLER
CC	COOLING COIL
CRP	CONDENSATE RECEIVER PUMP UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CTH	COOLING TOWER HEATER
CU	CONDENSING UNIT (AIR COOLED)
DC	DRY COOLER
EC	EVAPORATIVE COOLER
EEW	EMERGENCY EYE WASH (& SHOWER)
EHC	ELECTRIC HEATING COIL
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE (AUTOMATIC)
FD	FLOOR DRAIN
FP	FIRE PUMP
FTU	FAN TERMINAL UNIT
GRV	GRAVITY ROOF VENTILATOR
GWH	GAS WATER HEATER
H	HUMIDIFIER
HC	HEATING COIL
HPA	HEAT PUMP, AIR SOURCE
HPW	HEAT PUMP, WATER SOURCE
HWRP	HOT WATER RECIRCULATING PUMP
JP	JOCKEY PUMP
L	LAVATORY
MS	MOP SINK
MD	MOTORIZED DAMPER
P	PUMP
PP	PLUMBING PUMP
PRV	PRESSURE REDUCING VALVE
RC	REFRIGERANT COMPRESSOR
RH	RADIANT HEATING PANEL
RV	RELIEF VALVE
RVB	REFRIGERATOR VALVE BOX
RTU	ROOF TOP UNIT
SE	SEWAGE EJECTOR
SP	SUMP PUMP
ST	STEAM TRAP
TC	TRASH COMPACTOR
UH	UNIT HEATER
VB	VALVE BOX
VRP	VACUUM RETURN PUMP UNIT
WH	WALL HYDRANT
SH	SHOWER
SK	SINK
U	URINAL
WC	WATER CLOSET

ABBREVIATION DESCRIPTION

A	AMPERES
AC	ABOVE CEILING
A/C	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
AUTO	AUTOMATIC
ARCH	ARCHITECTURAL
AUX	AUXILIARY
BFP	BACKFLOW PREVENTER
BG	BELOW GRADE
BLDG	BUILDING
BOS	BOTTOM STRUCTURE
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
C	CONDENSATE
CAP	CAPACITY
CAT	CATEGORY
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT
CONN	CONNECTION
CONT	CONTINUE OR CONTINUATION
CONTR	CONTRACTOR
COL	COLUMN
CU	COPPER
CV	CONTROL VALVE
CW	COLD WATER
DEG	DEGREES (°)
DIW	DEIONIZED WATER
DIWR	DEIONIZED WATER RETURN
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER (Ø)
DIR	DIRECTION
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DWG	DRAWING
DSN	DOWNSPOUT NOZZLE
DYCO	DOUBLE YARD CLEANOUT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION
EMCS	ENERGY MANAGE. CONTROL SYS.
EMER	EMERGENCY
EOD	EMERGENCY OVERFLOW DRAIN
EP	EXPLOSION PROOF
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(E)	EXISTING
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHS	FIRE HOSE STATION
FHV	FIRE HOSE VALVE
FL	FLOOR
FLE	FLOW LINE ELEVATION
FLEX	FLEXIBLE
FP	FIRE PROTECTION
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT	FEET (')
FVC	FIRE VALVE CABINET
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GCO	GRADE CLEAN OUT
GEN	GENERATOR
GW	GREASE WASTE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
HB	HOSE BIBB
HD	HUB DRAIN
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HZ	HERTZ - FREQUENCY IN CYCLES PER SECOND
HW	HOT WATER
IE	INVERT ELEVATION
INC	INCLUDE OR INCLUDED
IN	INCHES (")
IW	INDIRECT WASTE
KW	KILOWATTS
LAV	LAVATORY
LB	POUNDS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAX	MAXIMUM
MB	MOP BASIN
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MECH.	MECHANICAL
MIN	MINIMUM
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINUTES
MTD	MOUNTED
MTR	MOTOR
N_2	NITROGEN
N_2O	NITROUS OXIDE
NC	NORMALLY CLOSED
(N)	NEW
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OPD	OIL PUMP DISCHARGE
OS&Y	OUTSIDE SCREW AND YOKE
PRESS	PRESSURE
PRD	PRIMARY ROOF DRAIN
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
PPH	POUNDS PER HOUR
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	PRESSURE IN PSI GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE:	REFER TO
REC	REFERENCE, CALLED OUT ELSEWHERE
REF	
REQD	REQUIRED
RL	ROOF DRAIN LEADER
RM	ROOM
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RT	RAIN TIGHT
SD	STORM DRAIN
SEC	SECONDS
SF	SQUARE FEET
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SRD	SECONDARY ROOF DRAIN
SSD	SECONDARY STORM DRAIN
STL	STEEL
SSTL	STAINLESS STEEL
STL	STEEL
SW	SOFT WATER
TD	TRENCH DRAIN
TEMP	TEMPORARY
TP	TRAP PRIMER
T&PRV	TEMPERATURE & PRESSURE RELIEF VALVE
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
TYP	TYPICAL
UF	UNDERFLOOR
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VB	VACUUM BREAKER
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VP	VELOCITY PRESSURE
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WCO	WALL CLEAN OUT
WF	WASH FOUNTAIN
WG	INCH OF WATER PRESSURE,GAUGE
WH	WALL HYDRANT
WM	WATER METER
WMA	WATER METER ALARM
WP	WEATHERPROOF
WPD	WATER PRESSURE DROP
WS	WET STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WTR	WATER
YD	YARD DRAIN
YCO	YARD CLEANOUT

GENERAL NOTES:

1. SCOPE OF PLUMBING WORK IS TO FURNISH AND INSTALL ALL FIXTURES, EQUIPMENT, PLUMBING AND PIPING. ALSO IN THE SCOPE ARE MISCELLANEOUS FIXTURES, EQUIPMENT, PLUMBING AND PIPING ON THE SITE.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
4. ALL TEMPERATURES ARE IN DEGREES F° UNLESS NOTED OTHERWISE.
5. WHEREVER HOT AND COLD WATER CONTROLS, FAUCETS, VALVES OR STOP VALVES ARE INSTALLED TOGETHER, HOT SHALL BE ON LEFT AND COLD SHALL BE ON RIGHT AS SEEN BY THE USER.
6. SOME SYMBOLS SHOWN MAY NOT BE USED.
7. REFER TO ARCHITECTURAL DRAWINGS FOR MOST ACCURATE WALLS, CEILING ELEMENTS AND PLUMBING FIXTURE LOCATIONS.
8. UTILITY LOCATIONS ARE APPROXIMATE AND ARE BASED ON INFORMATION SUPPLIED BY OTHERS. PHYSICALLY VERIFY LOCATIONS AND ELEVATIONS BEFORE BEGINNING INSTALLATIONS.
9. WASTE PIPING IS GENERALLY UNDER THE FLOOR. ALL OTHER PIPING IS GENERALLY ABOVE THE FLOOR OR CEILING EXCEPT AS INDICATED, OR AS NECESSARY.
10. PIPING SHALL BE ROUTED HIDDEN FROM VIEW. WHERE PIPING CANNOT BE HIDDEN FROM VIEW, OBTAIN ARCHITECT APPROVAL OF ROUTING AND FINISHED APPEARANCE OF PIPING. FACTORY FINISH OF PIPING IS ACCEPTABLE. FACTORY FINISH OF INSULATION JACKET IS ACCEPTABLE. REMOVE NON-FACTORY AND VISABLY OBJECTIONAL MARKS ON FINISHED PIPING AND INSULATION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING DOMESTIC WATER PRESSURE AND PROVIDE PRESSURE REDUCING VALVE IF WATER PRESSURE IS GREATER THAN 65 P.S.I.. PRESSURE REDUCING VALVE SHALL BE SET BETWEEN 60 AND 65 P.S.I..
12. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SUBMITTING BID.
13. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT OF PLUMBING FIXTURES.
14. CONTRACTOR SHALL COORDINATE WITH ALL TRADES DURING CONSTRUCTION.
15. SLOPE ALL WASTE PIPING AS PER 2021 UPC UNLESS OTHERWISE NOTED.
16. REFER TO ARCHITECTURAL ELEVATION AND SECTIONS PRIOR TO ROUTING OF PIPING.
17. INSTALL FLUSH VALVE HANDLE FOR WATERCLOSET ON OPENSIDE OF ADA STALL.
18. NO PLUMBING PIPING IS ALLOWED TO BE ROUTED IN ANY ELECTRICAL OR IDF ROOMS.
19. COORDINATE ALL BEAM AND SLAB PENETRATIONS WITH STRUCTURAL BEFORE PIPE ROUTING.
20. UNLESS OTHERWISE NOTED ON PLANS. ALL EXISTING PLUMBING SYSTEMS PIPES ARE AN APPROXIMATE LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. CONTRACTOR TO REFER TO THE LATEST AS-BUILT-DRAWINGS AS REQUIRED.
21. UNLESS OTHERWISE NOTED ON PLANS. ALL EXISTING PLUMBING SYSTEMS PIPES ARE AN APPROXIMATE LOCATION ONLY. CONTRACTOR TO FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION. CONTRACTOR TO REFER TO THE LATEST AS-BUILT-DRAWINGS AS REQUIRED.
22. UNLESS OTHERWISE NOTED ON PLANS. ALL (E) NOTATIONS ON PIPE TAGS REFERS TO EXISITNG PLUMBING SYSTEMS.
23. LOCATIONS OF PLUMBING EQUIPMENT AND ASSOCIATED MATERIAL INSTALLATION ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
24. CONTRACTOR SHALL SUBMIT FULLY COORDINATED SHOP DRAWINGS SHOWING ALL PLUMBING EQUIPMENT AND ASSOCIATED MATERIAL INSTALLATION FOR REVIEW BY THE DESIGN TEAM PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INCLUDE ALL PROPOSED EQUIPMENT LOCATIONS IN DRAWINGS. THIS INCLUDES ALL MAJOR MECHANICAL ROOMS.
25. ALL EXISTING PIPING SHOWN WAS TAKEN FROM DRAWINGS DATED JANUARY 2001. CONTRACTOR SHALL FIELD VERIFY FOR EXACT LOCATION AND PIPE SIZES BEFORE ROUTING ANY NEW PIPING.

DEMOLITION NOTES:

1. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BID. THIS DRAWING IS FOR GENERAL GUIDANCE ONLY. SOME ITEMS SHOW MAY ALREADY BE REMOVED. SOME MATERIALS AND EQUIPMENT NOT SHOWN MAY BE WITHIN THE SCOPE OF WORK TO BE REMOVED. SOME ITEMS TO BE REMOVED MAY BE IDENTIFIED WITH LABELS OR KEYED NOTES. ITEM THAT ARE NOT IDENTIFIED WITH THE LABELS OR KEYED NOTES MAY ALSO BE WITHIN THE SCOPE OF WORK TO BE REMOVED.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELF WITH EXISTING CONDITIONS, PRIOR TO STARTING DEMOLITION.
3. REMOVE ALL ITEMS THAT ARE SHOWN AS HIDDEN LINE. PLUMBING PIPES, VALVES AND ASSOCIATED ACCESSORIES SHALL BE REMOVED BACK TO MAIN PIPE AND CAPPED WITHIN THE SCOPE OF WORK.
4. MATERIALS AND EQUIPMENT REMOVED AND/OR DEMOLISHED SHALL BE REMOVED BY THE CONTRACTOR FROM THE BUILDING AND OWNER'S PROPERTY. DEMOLISHED MATERIALS AND EQUIPMENT BECOME PROPERTY OF THE CONTRACTOR UPON LEAVING OWNER'S PROPERTY. CONTRACTOR SHALL DISPOSE OF DEMOLISHED MATERIALS AND EQUIPMENT IN FULL COMPLIANCE WITH ALL LAWS AND REGULATIONS.
5. REMOVE AND GIVE TO OWNER AT A LOCATION ON OWNER'S JOB SITE, AND MATERIALS OR EQUIPMENT SPECIFICALLY REQUESTED BY OWNER FOR SALVAGE AND POSSIBLE RE-USE.
6. HOLES, OPENINGS AND DAMAGE CREATED OR REMAINING DUE TO DEMOLITION WORK MAY OR MAY NOT REQUIRE REPAIR DEPENDING ON NEW WORK AS THE LOCATION. COORDINATE WITH NEW WORK. HOLES, OPENINGS, AND DAMAGE NOT REPAIRED WITHIN SCOPE OF NEW WORK SHALL BE REPAIRED TO HAVE STRUCTURAL STRENGTH APPROPRIATE TO ITS FUNCTIONS; BE INSULATED, WEATHERTIGHT AND/OR FLASHED IF PART OF BUILDING ENVELOPE, AND BE FINISHED TO MATCH ADJACENT MATERIALS IF EXPOSED TO VIEW.
7. EXISTING PLUMBING PIPING, FIXTURES, AND EQUIPMENT SHOWN IS BASED ON AS-BUILT DRAWINGS AND FIELD OBSERVATION. DURING DEMOLITION, ANY CLARIFICATION REQUIRED TO DETERMINE SCOPE OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. DRAWINGS DO NOT SHOW EVERY EXISTING PIPE, CONDUIT, DUCT, ETC. REMOVE ONLY ITEMS REQUIRED TO BE REMOVED AND VERIFY PIPES, DUCTS, ETC. BEFORE REMOVAL.
9. CONTRACTOR SHALL COORDINATE ANY SERVICE SHUTDOWN WITH OWNER BEFORE DISCONNECTING ANY PIPING.
10. CONTRACTOR SHALL INSTALL NEW WASTE PIPE TEST TO DETERMINE THAT PIPE IS IN PROPER WORKING CONDITION BEFORE DISCONNECTING EXISTING WASTE PIPE AND CONNECTING NEW PIPE TO EXISTING.
11. ALL EXISTING FLOOR DRAINS TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.
12. CONTRACTOR SHALL NOT LEAVE DOMESTIC WATER DEAD LEGS. PIPING SHALL BE CONNECTED TO NEW FIXTURES OR CAPPED AT MAIN.

FIRE PROTECTION GENERAL NOTES:

1. CONTRACTOR SHALL MODIFY EXISTING SPRINKLER HEADS LAYOUT BASED ON NEW FLOOR PLAN. ALL MODIFICATIONS SHALL BE ACCORDANCE WITH NFPA-13.

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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
PLUMBING SYMBOLS & ABBREVIATIONS

SHEET NO.
P000

6/6/2022 10:15:44 AM
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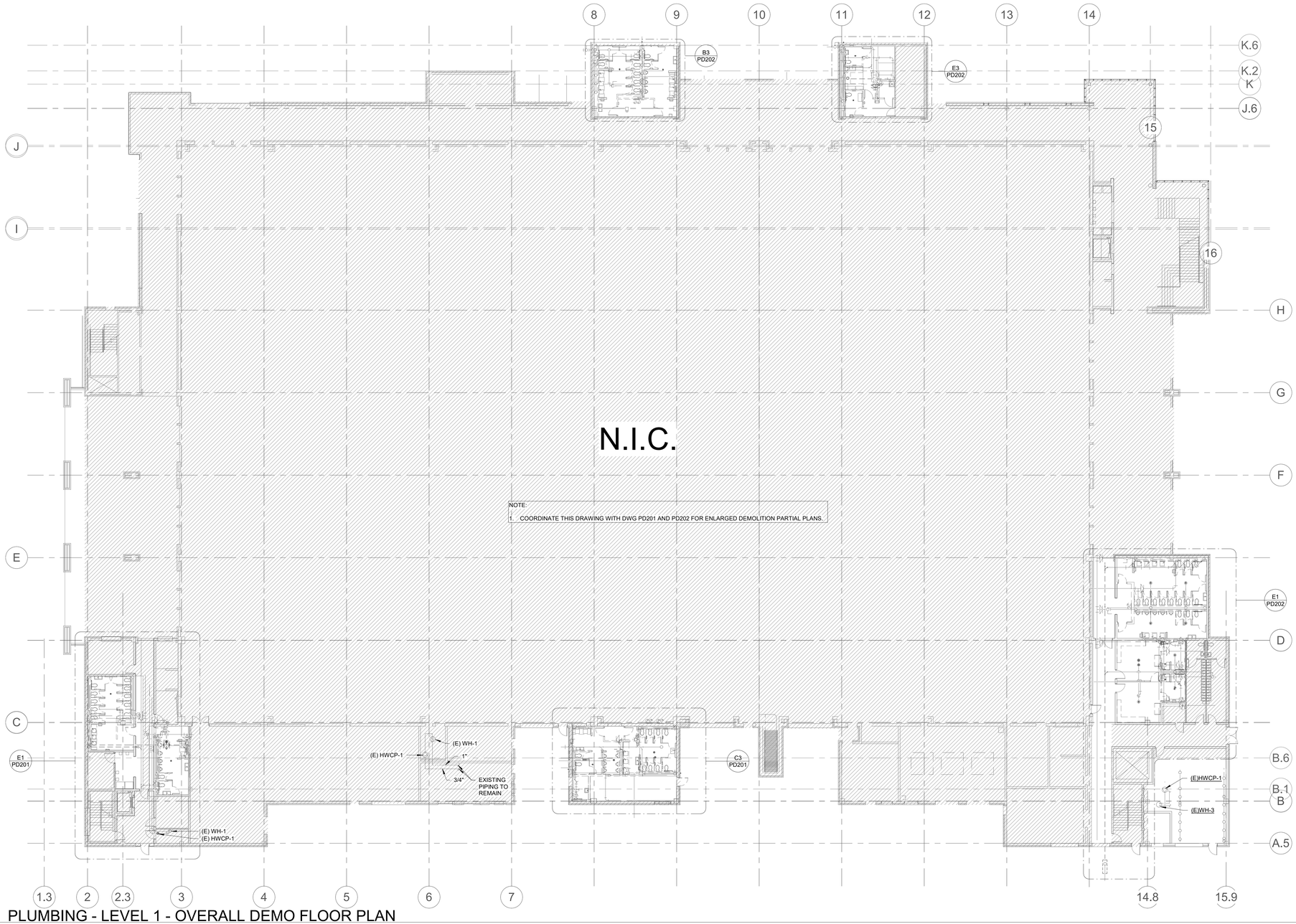
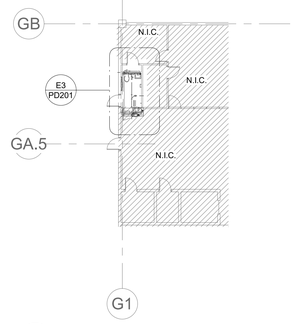


NOTE:
1. COORDINATE THIS DRAWING WITH DWG PD201 AND PD202 FOR ENLARGED DEMOLITION PARTIAL PLANS.

D1 PD101 PLUMBING - LEVEL 1 - OVERALL DEMO FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.



E1 PD101 PLUMBING - LEVEL 1 - GARAGE OVERALL DEMO

1/16" = 1'-0"

NORTH PLAN N.

NOTES:

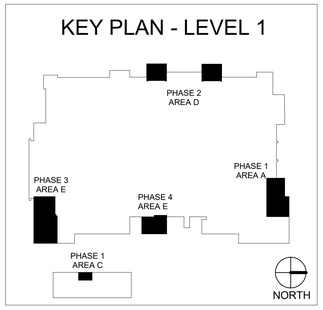
1. REFER TO DEMOLITION KEYED NOTES ON DWG P000.

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 1



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SHEET TITLE
LEVEL 1 - OVERALL DEMO PLAN

SHEET NO.
PD101

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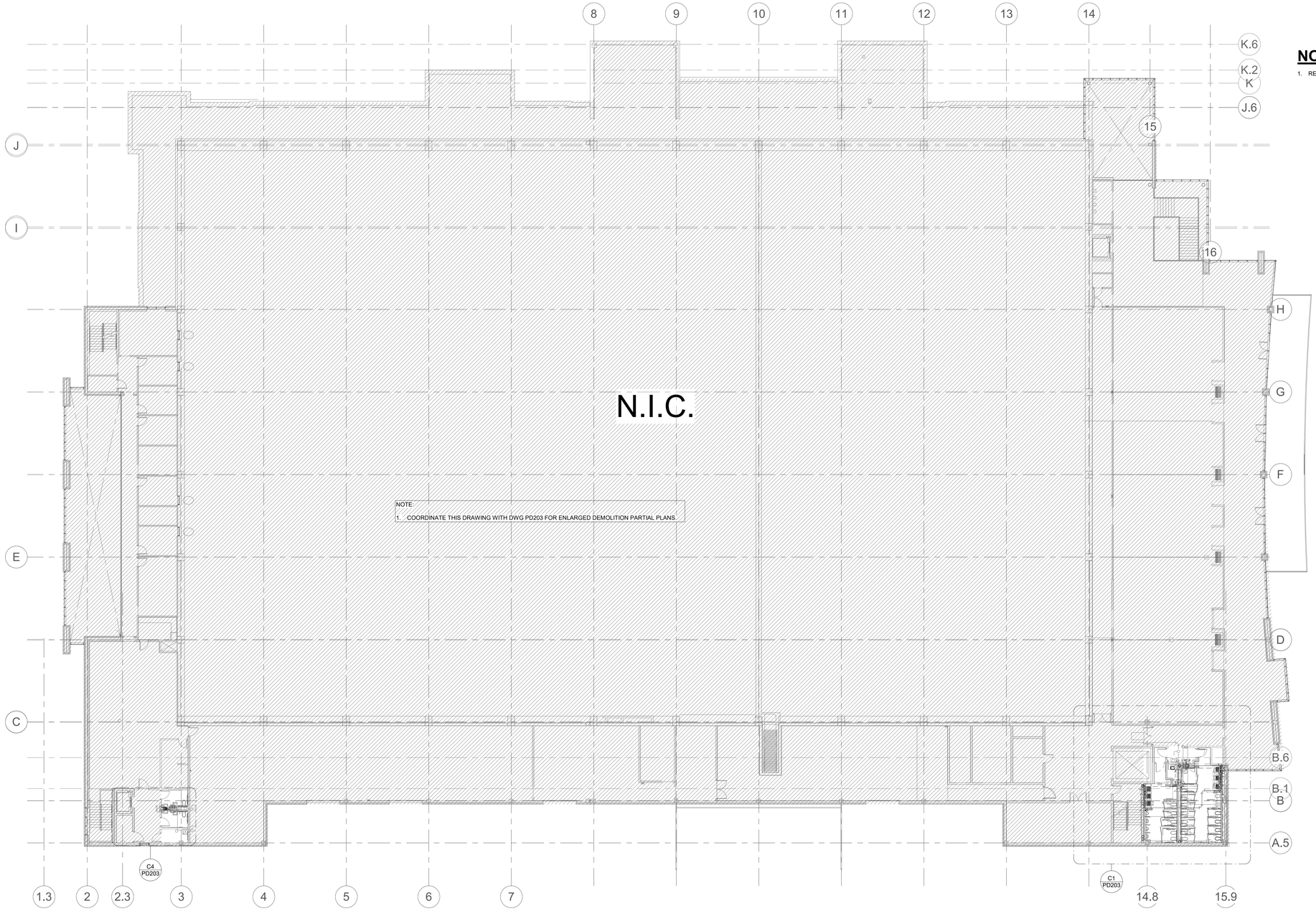


D1 PD102 PLUMBING - LEVEL 2 - OVERALL DEMO FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.

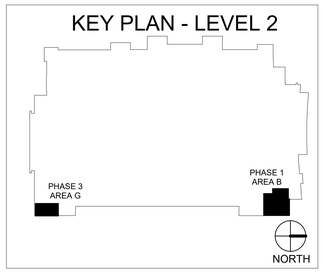
NOTES:

1. REFER TO DEMOLITION KEYED NOTES ON DWG P000.

DEMOLITION LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM



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SHEET TITLE
LEVEL 2 - OVERALL DEMO PLAN

SHEET NO.
PD102

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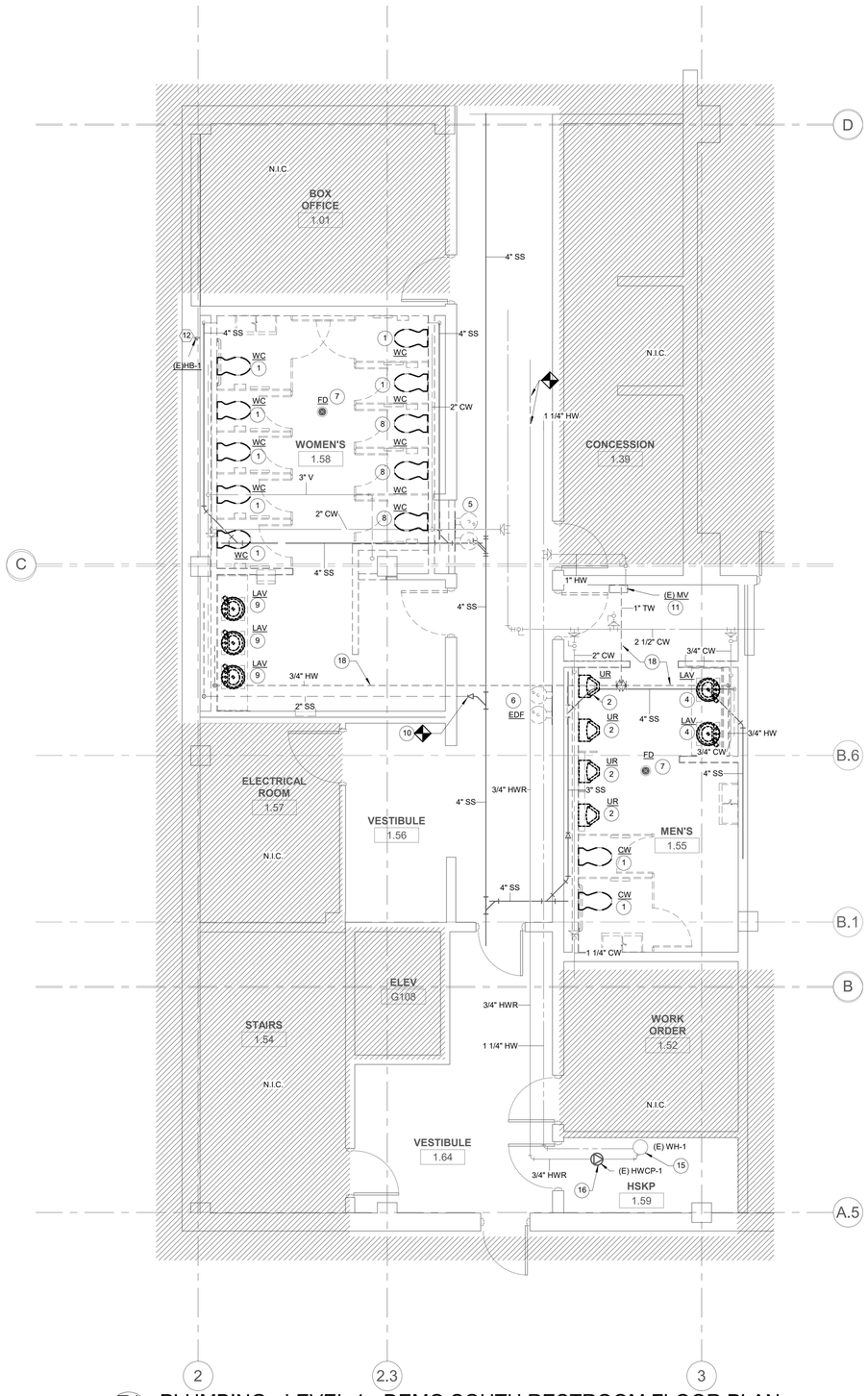
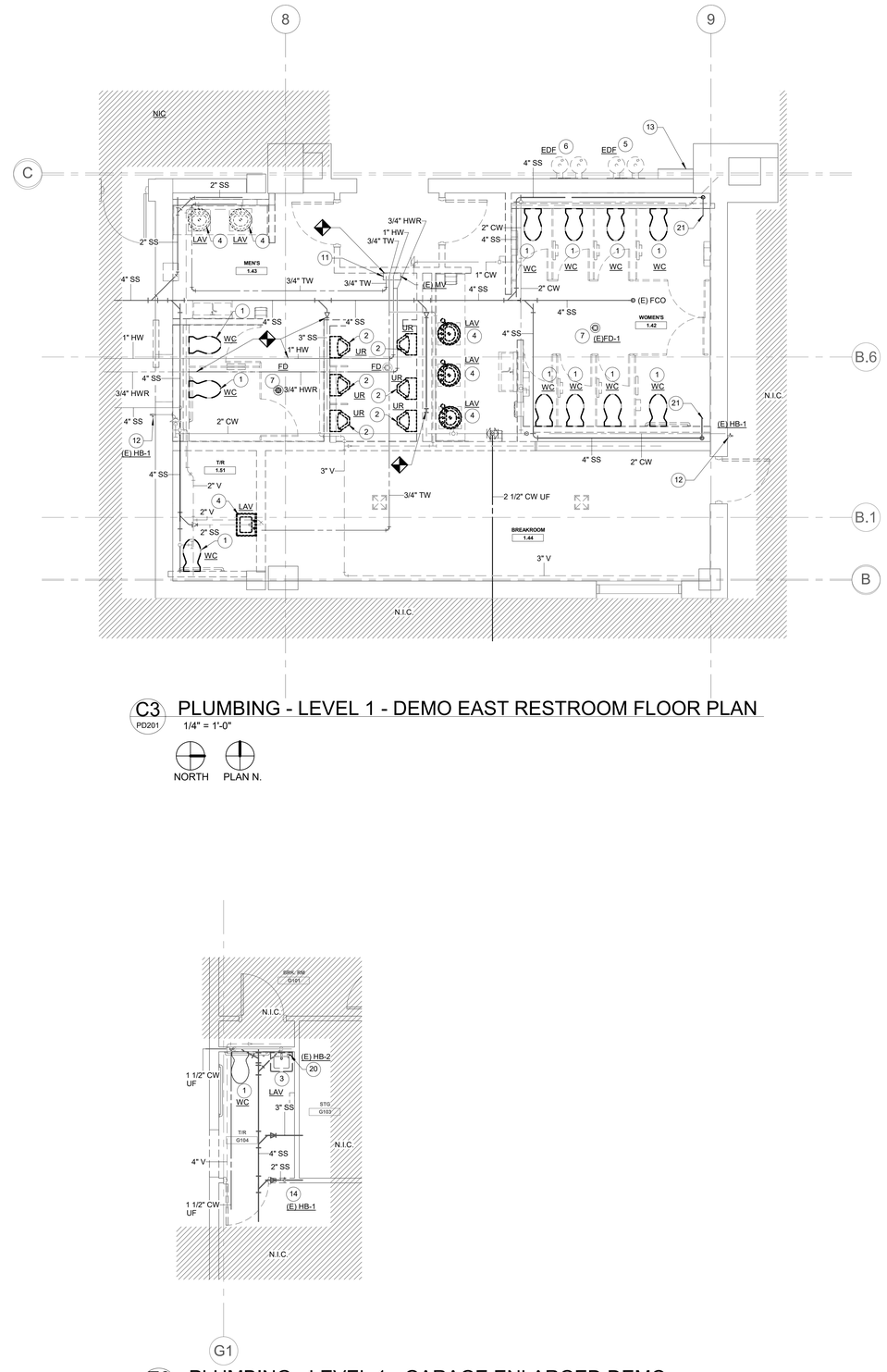


E1 PLUMBING - LEVEL 1 - DEMO SOUTH RESTROOM FLOOR PLAN

PD201 1/4" = 1'-0"

NORTH PLAN N.



C3 PLUMBING - LEVEL 1 - DEMO EAST RESTROOM FLOOR PLAN

PD201 1/4" = 1'-0"

NORTH PLAN N.

E3 PLUMBING - LEVEL 1 - GARAGE ENLARGED DEMO

PD201 1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (PD201)

1. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES AND VERIFY PLUMBING FIXTURES TO BE DEMOLISHED AS PER ARCHITECTURAL PLANS.
2. BEFORE DEMOLISHING PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL PATCH ALL FLOOR AND WALL PENETRATIONS TO MATCH EXISTING.
4. THROUGHOUT AREA OF CONSTRUCTION, CONTRACTOR SHALL CLEAN EXISTING PIPING TO REMAIN OF ALL DIRT, DEBRIS AND SOLIDS.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES.
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.

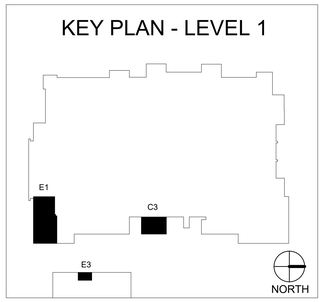
DEMOLITION NOTES (PD201)

1. REMOVE EXISTING WALL HUNG WATER CLOSET AND ALL ASSOCIATED ACCESSORIES. MODIFY WASTE, VENT AND COLD WATER PIPING FOR NEW WALL HUNG WATERCLOSET. REFER TO NEW WORK LAYOUT ON SHEET P201.
2. REMOVE EXISTING WALL HUNG URINAL AND ALL ACCESSORIES, CAP WASTE PIPE BELOW FLOOR AND CAP VENT AND COLD WATER PIPING ABOVE CEILING.
3. REMOVE EXISTING WALL HUNG LAVATORY AND ALL ACCESSORIES. CAP WASTE PIPE BELOW FLOOR, CAP VENT PIPE ABOVE CEILING, AND CAP COLD WATER PIPING AT MAIN. PATCH WALL TO MATCH EXISTING OR NEW FINISH.
4. REMOVE EXISTING WALL HUNG/COUNTER MOUNTED LAVATORY AND ALL ACCESSORIES. CAP WASTE PIPE BELOW FLOOR AND VENT, HOT AND COLD WATER PIPING ABOVE CEILING.
5. REMOVE EXISTING DRINKING FOUNTAIN AND ALL ACCESSORIES. MODIFY WASTE PIPE AND COLD WATER PIPING FOR NEW DRINKING FOUNTAIN. REFER TO NEW WORK ON SHEET P201.
6. REMOVE EXISTING DRINKING FOUNTAIN AND ALL ACCESSORIES, CAP WASTE PIPE BELOW FLOOR, AND CAP VENT AND COLD WATER PIPING ABOVE CEILING.
7. EXISTING FLOOR DRAIN TO REMAIN. REFER TO NEW WORK ON SHEET P201. EXISTING TRAP PRIMERS TO REMAIN. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING TRAP PRIMER AND CONNECT TO NEW TRAP PRIMER CONNECTION IN PIPE CHASE. REFER TO DETAIL 4/P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
8. REMOVE EXISTING WALL HUNG WATER CLOSET AND ASSOCIATED ACCESSORIES. MODIFY WASTE, VENT AND COLD WATER PIPING FOR NEW COUNTER MOUNTED LAVATORY. REFER TO NEW WORK ON DWG P201.
9. REMOVE EXISTING COUNTER MOUNTED LAVATORY AND ALL ASSOCIATED ACCESSORIES. EXTEND NEW WASTE, VENT, AND COLD WATER PIPE TO NEW WALL HUNG WATERCLOSET.
10. CUT AND CAP EXISTING WASTE PIPE BELOW FLOOR.
11. APPROXIMATE LOCATION OF EXISTING MIXING VALVE TO BE REMOVED. DEMOLISH COLD WATER PIPING BACK TO MAIN AND CAP. DEMOLISH TEMPERED WATER PIPING THROUGHOUT RESTROOM GROUP. DEMOLISH HOT WATER PIPING BACK TO MAIN OR AS REQUIRED FOR CONNECTION TO NEW PIPING.
12. EXISTING HOSE BIBS TO REMAIN. FIELD VERIFY EXACT LOCATION AND SIZES.
13. EXISTING FIRE HOSE CABINET TO REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
14. REMOVE EXISTING HOSE BIBB AND DEMOLISH ASSOCIATED COLD WATER PIPING AS REQUIRED FOR WALL DEMOLITION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
15. EXISTING WATER HEATER TO REMAIN.
16. EXISTING HOT WATER CIRCULATION PUMP TO REMAIN. CONTRACTOR SHALL FIELD VERIFY THAT PUMP IS IN GOOD WORKING CONDITION.
17. NOT USED.
18. REMOVE EXISTING TEMPERED WATER PIPE ABOVE CEILING.
19. NOT USED.
20. REMOVE EXISTING HOSE BIBB AND CAP COLD WATER PIPING AT MAIN. PATCH WALL TO MATCH EXISTING OR NEW FINISH. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
21. APPROXIMATE LOCATION OF EXISTING WALL CLEANOUT TO REMAIN.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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Checked	JB
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Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLUMBING FLOOR PLAN

SHEET NO.
PD201

6/6/2022 10:16:32 AM
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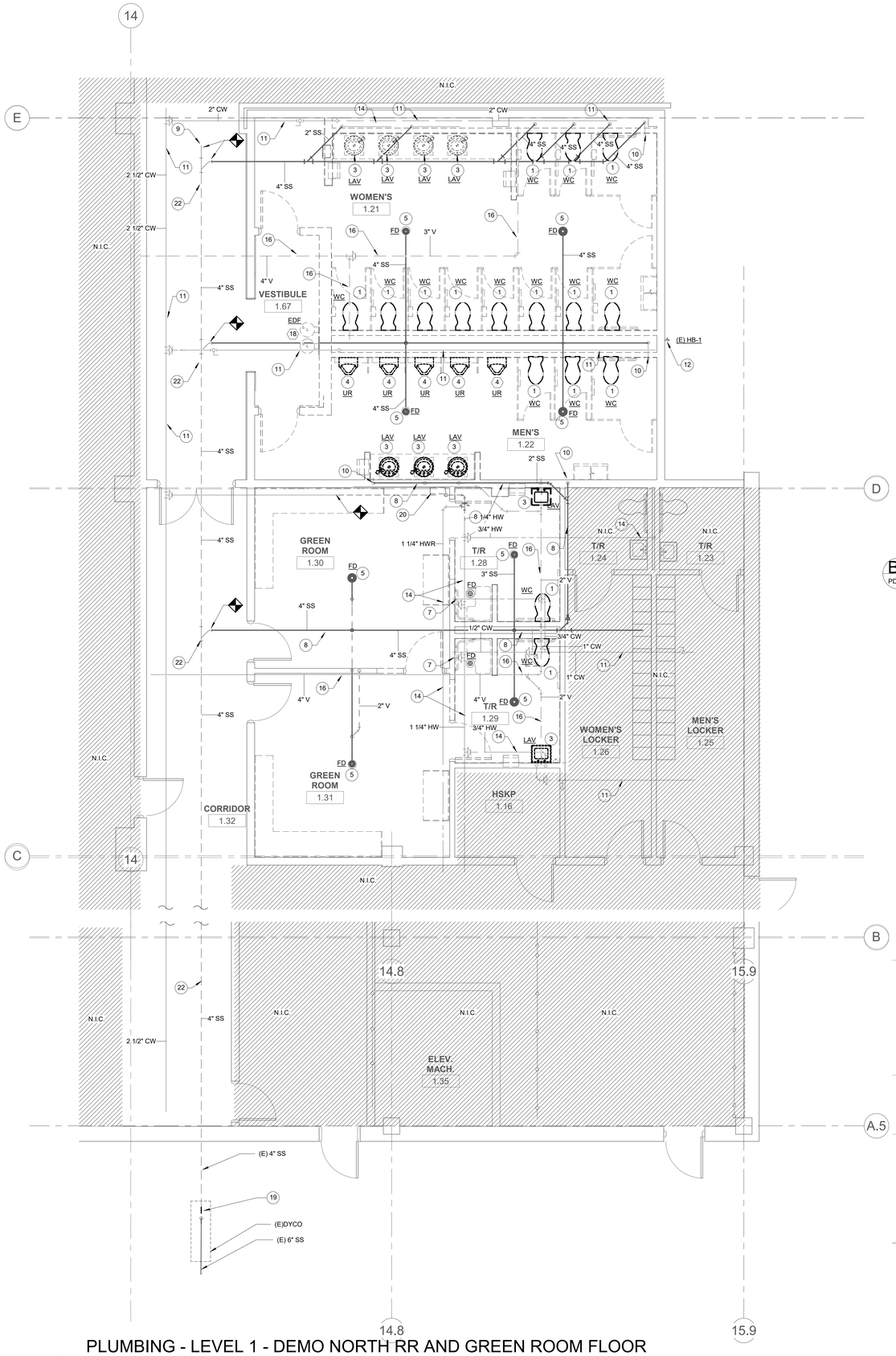
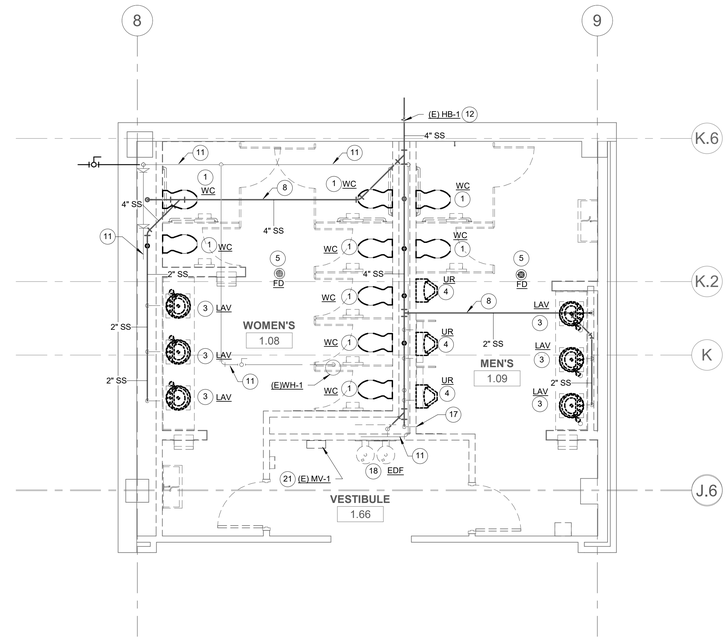


E1 PD202 PLUMBING - LEVEL 1 - DEMO NORTH RR AND GREEN ROOM FLOOR PLAN

1/4" = 1'-0"

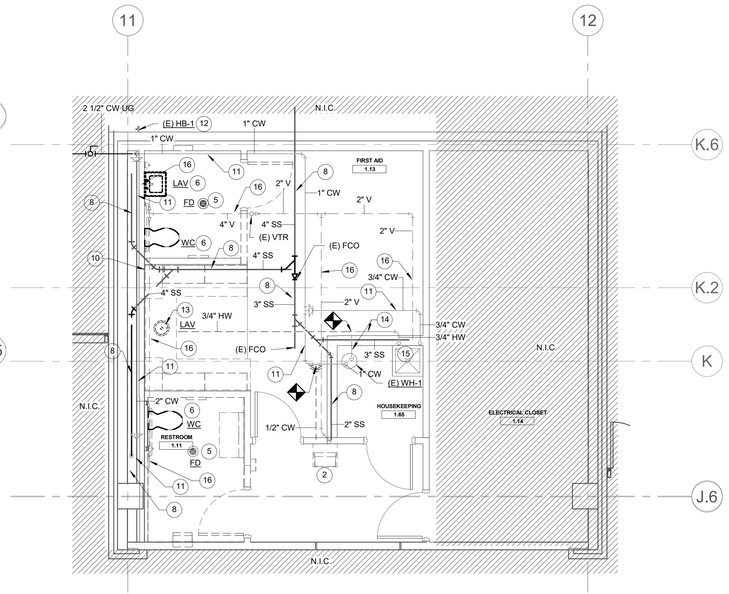
NORTH PLAN N.



B3 PD202 PLUMBING - LEVEL 1 - DEMO WEST RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.



E3 PD202 PLUMBING - LEVEL 1 - DEMO WEST FAMILY RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (PD202)

1. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES AND VERIFY PLUMBING FIXTURES TO BE DEMOLISHED AS PER ARCHITECTURAL PLANS.
2. BEFORE DEMOLISHING PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL PATCH ALL FLOOR AND WALL PENETRATIONS TO MATCH EXISTING.
4. THROUGHOUT AREA OF CONSTRUCTION, CONTRACTOR SHALL CLEAN EXISTING PIPING TO REMAIN OF ALL DIRT, DEBRIS AND SOLIDS.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES.
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.

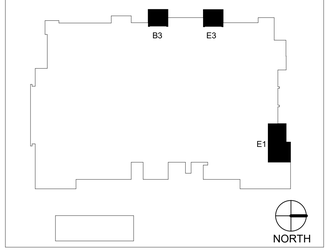
KEYED NOTES (PD202)

1. REMOVE EXISTING TOILET AND CARRIER. CAP WATER AND VENT IN CHASE. CAP SEWER PIPE ABOVE FLOOR.
2. REMOVE EXISTING DRINKING FOUNTAIN. REMOVE COLD WATER PIPE BACK TO MAIN AND CAP. CAP WASTE AND VENT PIPING WITHIN THE WALL AND PATCH WALL PENETRATIONS TO MATCH EXISTING OR NEW WALL FINISH.
3. REMOVE EXISTING LAVATORY AND ASSOCIATED PIPING. CAP WATER AND VENT PIPE IN CHASE, AND CAP SEWER PIPE ABOVE FLOOR FOR NEW LAVATORY CONNECTION. REFER TO DWG P202. DEMO EXISTING TEMPERED WATER PIPE BACK TO LAVATORY CONTROLLER, AND DEMO CONTROLLER.
4. REMOVE EXISTING URINAL. CAP WATER, VENT AND SEWER LINES IN CHASE ABOVE FLOOR FOR CONNECTION TO NEW URINAL.
5. APPROXIMATE LOCATION OF EXISTING FLOOR DRAIN TO REMAIN. EXISTING TRAP PRIMER TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING TRAP PRIMER CONNECTION. REFER TO DETAILS ON P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
6. REMOVE EXISTING PLUMBING FIXTURE AND TEMPORARY CAP WATER, VENT AND WASTE PIPES FOR NEW PLUMBING FIXTURE. REFER TO NEW WORK ON SHEET P202.
7. REMOVE EXISTING HAND HELD SHOWER. SHOWER DRAIN AND SHOWER STALL WITH SEAT TO REMAIN.
8. APPROXIMATE LOCATION OF EXISTING SEWER PIPE TO REMAIN.
9. APPROXIMATE LOCATION OF EXISTING FLOOR CLEANOUT TO BE REMOVED AND REPLACED.
10. APPROXIMATE LOCATION OF EXISTING WALL CLEANOUT TO REMAIN.
11. APPROXIMATE LOCATION OF EXISTING COLD WATER PIPE TO REMAIN.
12. EXISTING HOSE BIBS TO REMAIN. FIELD VERIFY EXACT LOCATION.
13. REMOVE EXISTING SINK. CAP VENT PIPE IN CHASE AND SEWER PIPE ABOVE FLOOR IN CHASE. DEMOLISH COLD WATER PIPE BACK TO MAIN IN CHASE AND CAP. DEMOLISH HOT WATER PIPE BACK TO MAIN AS SHOWN.
14. APPROXIMATE LOCATION OF EXISTING HOT WATER PIPE TO REMAIN.
15. EXISTING MOP SINK TO REMAIN.
16. APPROXIMATE LOCATION OF EXISTING VENT PIPE TO REMAIN.
17. REMOVE EXISTING WALL CLEANOUT PIPE AND ELBOW ABOVE FLOOR.
18. REMOVE EXISTING DRINKING FOUNTAIN AND ACCESSORIES CAP WASTE, VENT AND COLD WATER PIPING FOR NEW WALL HUNG ELECTRIC DRINKING FOUNTAIN.
19. EXISTING YARD CLEANOUT TO REMAIN. CONTRACTOR SHALL FIELD VERIFY LOCATION. REMOVE EXISTING WASTE PIPE UP TO CLEANOUT AS SHOWN. ALLOW FOR CONNECTION OF NEW WASTE PIPE SAME SIZE AS EXISTING. REFER TO NEW WORK ON SHEET P202.
20. APPROXIMATE LOCATION OF EXISTING MIXING VALVE TO BE REMOVED. DEMOLISH TEMPERED WATER PIPING THROUGHOUT RESTROOM GROUP. DEMOLISH HOT WATER AND COLD WATER PIPING AS REQUIRED FOR CONNECTION TO NEW PIPING.
21. APPROXIMATE LOCATION OF EXISTING MIXING VALVE TO BE REMOVED. DEMOLISH COLD WATER PIPING BACK TO MAIN AND CAP. DEMOLISH TEMPERED WATER PIPING THROUGHOUT RESTROOM GROUP. DEMOLISH HOT WATER PIPING BACK TO WATER HEATER OR AS REQUIRED FOR CONNECTION TO NEW PIPING.
22. APPROXIMATE LOCATION OF EXISTING SEWER PIPE TO BE REMOVED AND REPLACED.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
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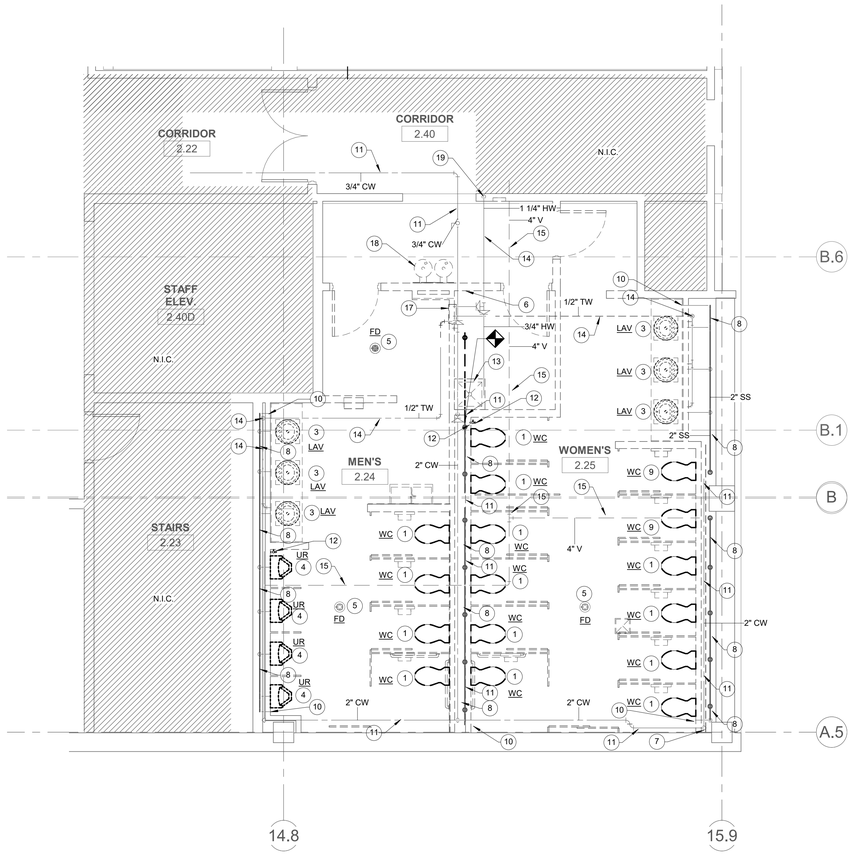
Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED DEMO PLUMBING FLOOR PLAN

SHEET NO.
PD202

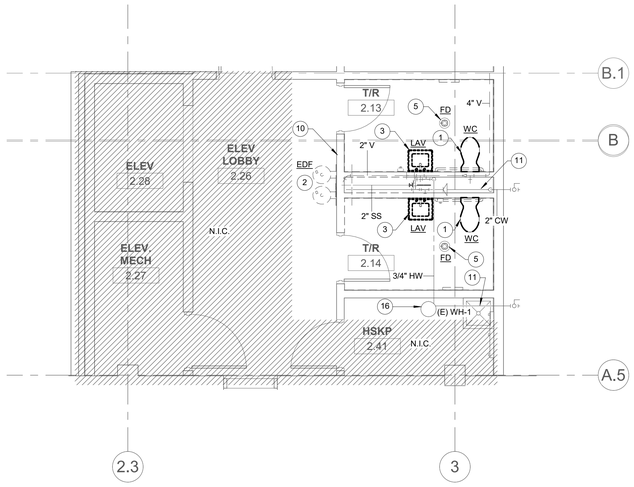
6/6/2022 10:16:38 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\Revit Models\20023-04-PEC Renovations CNG_R19_central.rvt



C1 PD203 PLUMBING - LEVEL 2 - DEMO NORTH RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.



C4 PD203 PLUMBING - LEVEL 2 - DEMO STAFF RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (PD203)

1. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES AND VERIFY PLUMBING FIXTURES TO BE DEMOLISHED AS PER ARCHITECTURAL PLANS.
2. BEFORE DEMOLISHING PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL PATCH ALL FLOOR AND WALL PENETRATIONS TO MATCH EXISTING.
4. THROUGHOUT AREA OF CONSTRUCTION, CONTRACTOR SHALL CLEAN EXISTING PIPING TO REMAIN OF ALL DIRT, DEBRIS AND SOLIDS.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES.
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.

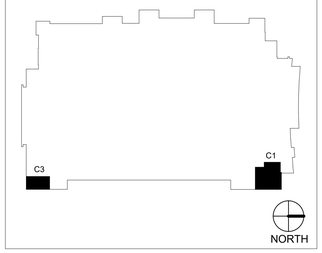
KEYED NOTES (PD203)

1. REMOVE EXISTING TOILET AND CARRIER. CAP WATER AND VENT IN CHASE. CAP SEWER PIPE ABOVE FLOOR.
2. REMOVE EXISTING DRINKING FOUNTAIN AND ACCESSORIES, REMOVE SANITARY AND VENT PIPING LOCATED ABOVE FLOOR FOR THIS PLUMBING FIXTURE. CAP ANY SANITARY & VENT PIPING 6" BELOW FLOOR AND PATCH FLOOR PENETRATIONS TO MATCH EXISTING OR NEW FLOOR FINISH. CAP EXISTING DOMESTIC WATER LINES WITHIN THE WALL AND PATCH WALL PENETRATIONS TO MATCH EXISTING OR NEW WALL FINISH.
3. REMOVE EXISTING WALL HUNG/COUNTER MOUNTED LAVATORY AND ASSOCIATED PIPING. CAP WATER AND VENT PIPE IN CHASE AND CAP SEWER PIPE ABOVE FLOOR FOR NEW LAVATORY CONNECTION.
4. REMOVE EXISTING URINAL. CAP WATER, VENT AND SEWER LINES IN CHASE ABOVE FLOOR FOR CONNECTION TO NEW URINAL.
5. APPROXIMATE LOCATION OF EXISTING FLOOR DRAIN TO REMAIN. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING TRAP PRIMER AND CONNECT TO NEW TRAP PRIMER CONNECTION IN PIPE CHASE. REFER TO DETAILS ON P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
6. REMOVE EXISTING WALL CLEANOUT. REFER TO NEW WORK ON DWG C1/P203 FOR NEW WALL CLEANOUT LOCATION.
7. APPROXIMATE LOCATION OF COLD WATER UP FROM FIRST FLOOR TO REMAIN.
8. APPROXIMATE LOCATION OF EXISTING SEWER PIPE TO REMAIN.
9. REMOVE EXISTING TOILET AND CARRIER. CAP WATER AND VENT ABOVE CEILING AND WASTE PIPE BELOW FLOOR. CONTRACTOR SHALL PATCH FLOOR AND WALL TO MATCH EXISTING. REFER TO DWG P203 FOR NEW WORK.
10. APPROXIMATE LOCATION OF EXISTING WALL CLEANOUT TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING WALL CLEANOUT FOR EXACT LOCATION AND SIZES PRIOR TO STARTING WORK.
11. APPROXIMATE LOCATION OF EXISTING COLD WATER PIPE TO REMAIN.
12. REMOVE EXISTING HOSE BIBB AND CAP COLD WATER PIPING IN THE WALL. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
13. REMOVE EXISTING MOP SINK. CAP VENT PIPE IN CHASE AND SEWER PIPE ABOVE FLOOR. CAP COLD WATER IN CHASE AND HOT WATER ABOVE CEILING.
14. APPROXIMATE LOCATION OF EXISTING TEMPERED WATER PIPE TO BE DEMOLISHED, RE: KEYED NOTE 17.
15. APPROXIMATE LOCATION OF EXISTING VENT PIPE TO REMAIN.
16. APPROXIMATE LOCATION OF EXISTING WATER HEATER SERVING LAVATORIES IN T/R 2.13 AND 2.14 AND EXISTING MOP SINK IN HSKP 2.41 TO REMAIN.
17. APPROXIMATE LOCATION OF EXISTING MIXING VALVE TO BE REMOVED. DEMOLISH TEMPERED WATER PIPING THROUGHOUT RESTROOM GROUP. DEMOLISH HOT WATER AND COLD WATER PIPING BACK TO MAIN OR AS REQUIRED FOR CONNECTION TO NEW PIPING.
18. REMOVE EXISTING DRINKING FOUNTAIN AND ACCESSORIES CAP WASTE, VENT AND COLD WATER PIPING FOR NEW WALL HUNG ELECTRIC DRINKING FOUNTAIN. PATCH FLOOR PENETRATIONS TO MATCH EXISTING OR NEW FLOOR FINISH.
19. EXISTING HOT WATER PIPE UP FROM FLOOR BELOW TO REMAIN.

DEMOLITION LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 2



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LIFE SAFETY, TEST & BALANCE
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CITY OF AUSTIN
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Drawn	Author
Checked	Checker
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 2 - ENLARGED DEMO PLUMBING FLOOR PLAN

SHEET NO.
PD203

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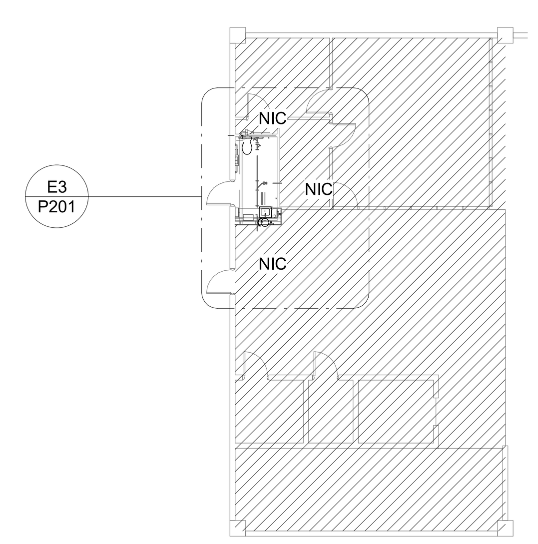
D1 PLUMBING - LEVEL 1 - OVERALL FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.



NORTH PLAN N.

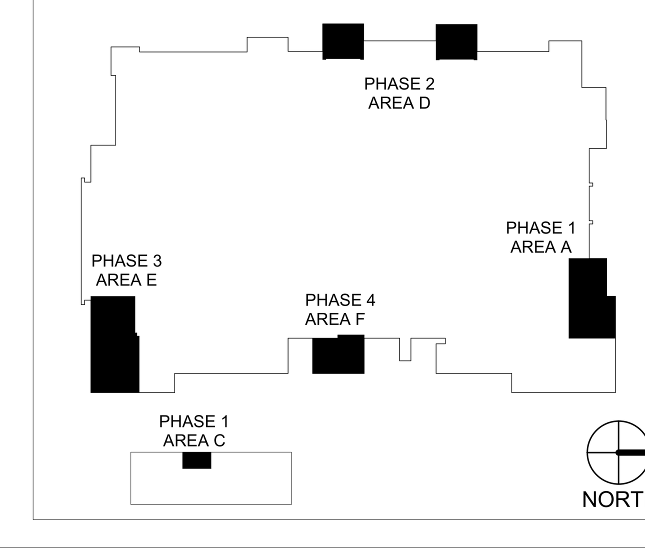
E2 PLUMBING - LEVEL 1 - GARAGE OVERALL FLOOR PLAN

1/16" = 1'-0"

FLOOR PLAN LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM



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Drawn	Author
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Project No.	MM 20027 / CNG 0023-20
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SHEET TITLE
LEVEL 1 OVERALL FLOOR PLAN

SHEET NO.
P101

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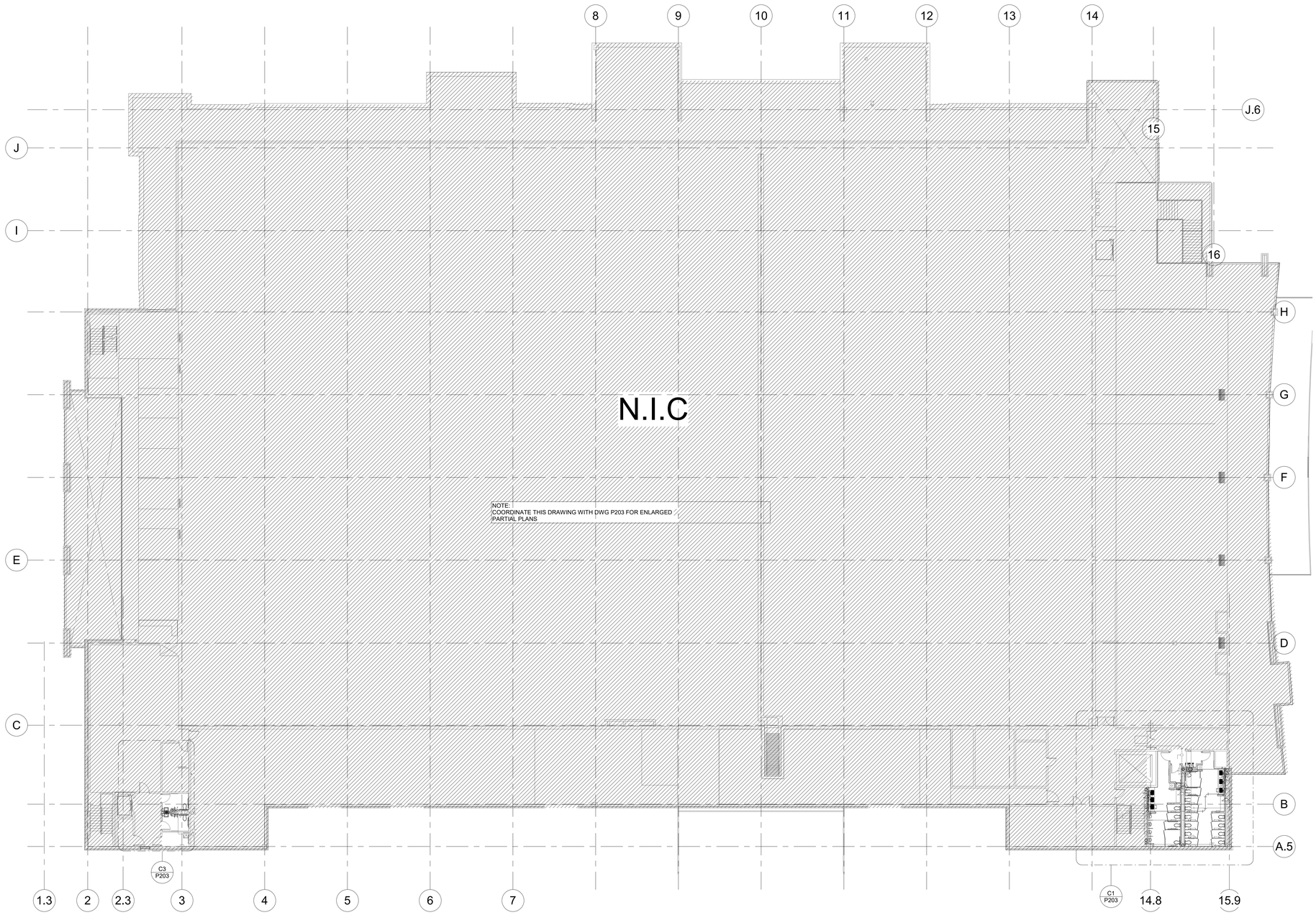


D1 P102 PLUMBING - LEVEL 2 - OVERALL FLOOR PLAN

1/16" = 1'-0"

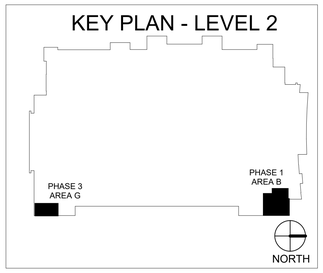
NORTH PLAN N.

FLOOR PLAN LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

PHASING PLAN DIAGRAM

KEY PLAN - LEVEL 2



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SHEET TITLE
LEVEL 2 OVERALL FLOOR PLAN

SHEET NO.
P102

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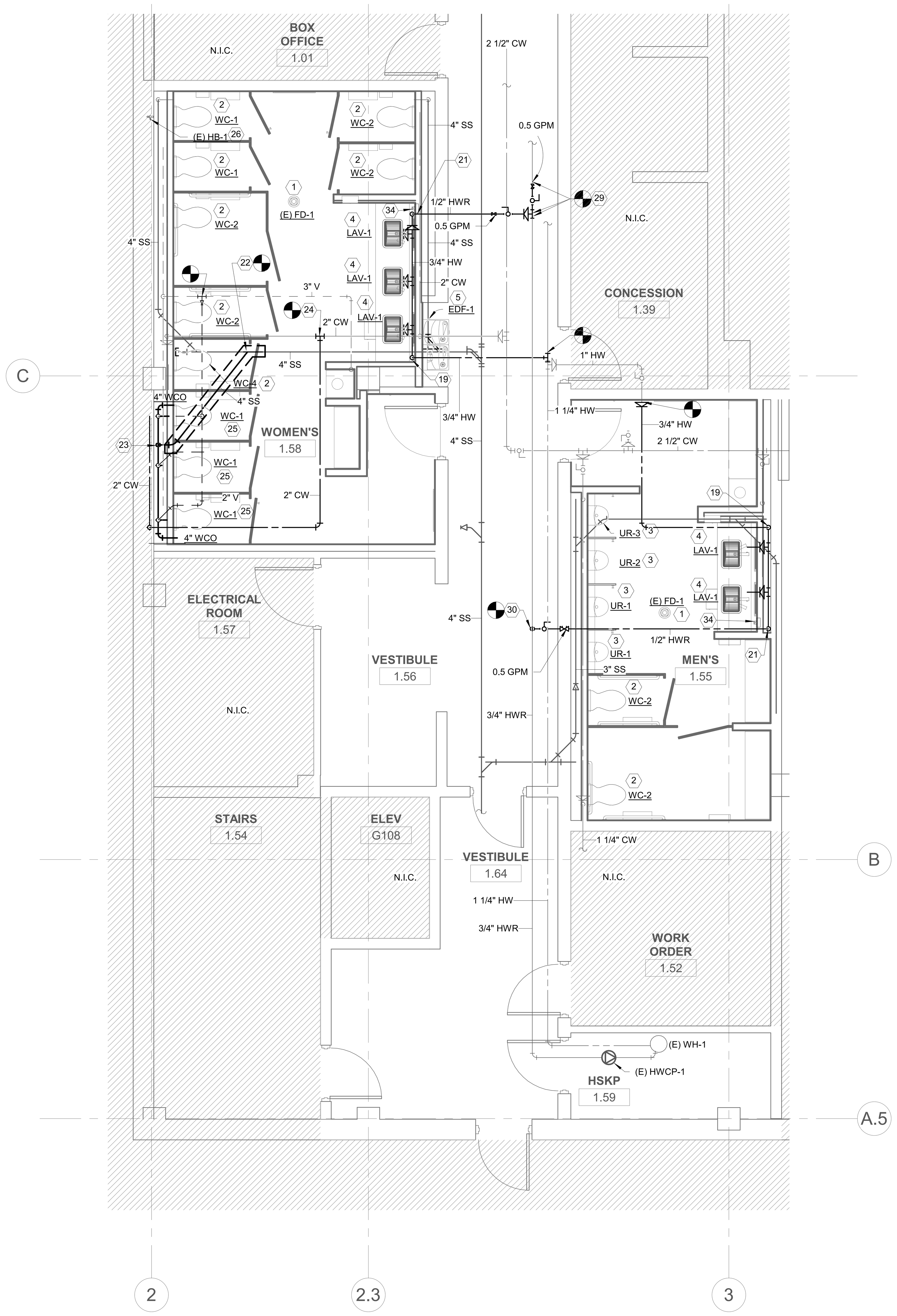
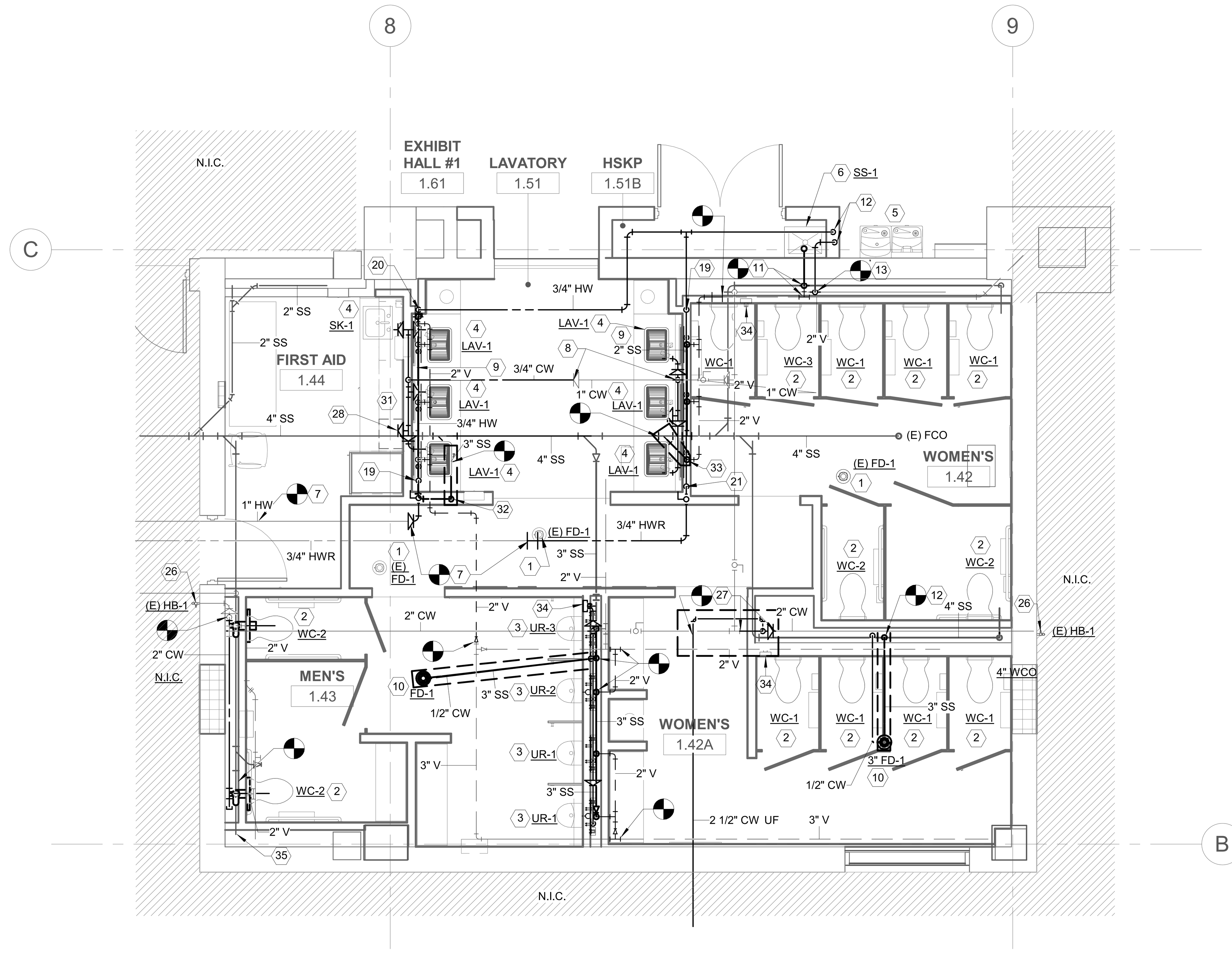
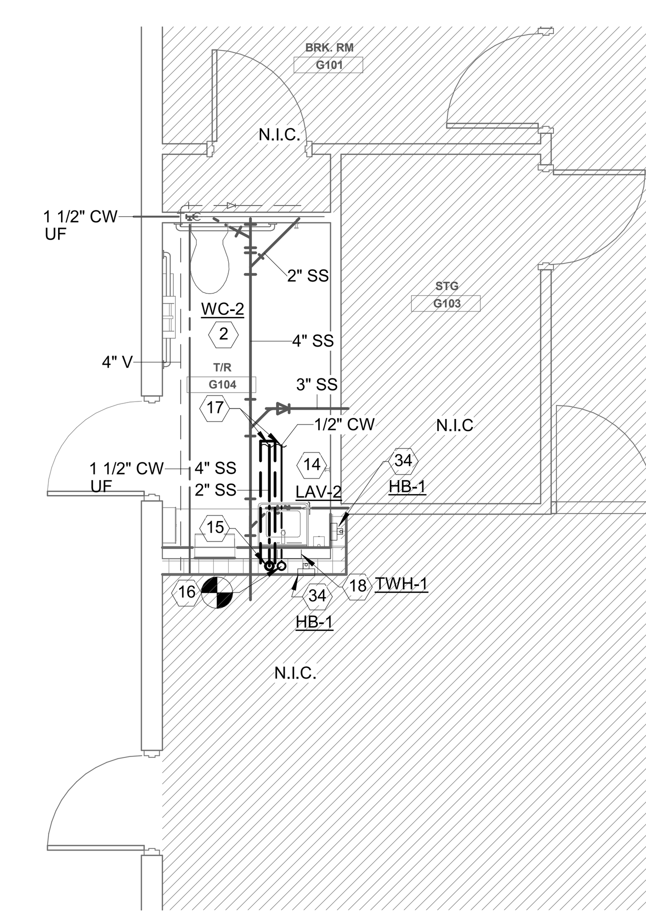
Upgrades\Revit\Central Models\20-23 CoaPEC Renovations CNG_R19_central.rvt



E1 P201 PLUMBING - LEVEL 1 - SOUTH RESTROOM FLOOR PLAN
1/4" = 1'-0"
NORTH PLAN N.



C3 P201 PLUMBING - LEVEL 1 - EAST RESTROOM FLOOR PLAN
1/4" = 1'-0"
NORTH PLAN N.



E3 P201 PLUMBING - LEVEL 1 - GARAGE ENLARGED FLOOR PLAN
1/4" = 1'-0"
NORTH PLAN N.

GENERAL NOTES (P201)

1. CONTRACTOR SHALL FIELD VERIFY THE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING LOCATIONS ROUTED ABOVE FLOOR. CONTRACTOR TO SALVAGE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING AS CONSTRCUTION FEASIBILITY PERMITS. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO SERVE EXISTING PLUMBING FIXTURES AND PROPOSED NEW PLUMBING FIXTURES AS REQUIRED. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO AVOID CONFLICT WITH STRUCTURE AND OTHER DISCIPLINES. PROVIDE SHOP DRAWIGNS PRIOR TO BEGINNING WORK AND INFORM THE A/E TEAM OF ANY DISCREPANCIES WITH THE PROPOSED SOLUTIONS.
2. BEFORE ROUTING NEW PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING HOT AND COLD WATER PIPING ABOVE CEILING. CONNECT NEW CW AND HW TO EXISTING PIPING AND DROP IN WALL TO NEW MIXING VALVE LOCATION AS INDICATED. EXTEND TW PIPE FROM MIXING VALVES TO LAVATORY FAUCETS.
4. CONTRACTOR SHALL PROVIDE ADEQUATE CLEANOUTS FOR CLEANING OF THE ENTIRE SANITARY SEWER SYSTEM AS REQUIRED. PROVIDE A CLEANOUT AT EACH PLUMBING BATTERY AT 4'-0" A.F.F.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES. FURNISH AND INSTALL NEW SHUTOFF VALVES AND ACCESS PANELS AS REQUIRED TO PROVIDE EACH RENOVATED RESTROOM ITS OWN SHUTOFF VALVES FOR COLD WATER, HOT WATER, AND HOT WATER RETURN THAT WILL NOT SHUT OFF SERVICE TO FIXTURES IN OTHER RESTROOM GROUPS. WHERE FEASIBLE, LOCATE NEW VALVES IN WALL 4 TO 5 FT AFF. COORDINATE ACCESS PANEL LOCATIONS WITH ARCHITECT. CONTRACTOR SHALL INCLUDE UNIT PRICE IN BID FOR INSTALLATION OF NEW SHUTOFF VALVE FOR EACH SIZE 1/2" THROUGH 2".
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.
7. CONTRACTOR SHALL FLUSH AND STERILIZE ALL NEW DOMESTIC WATER PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
8. CONTRACTOR SHALL PRESSURE TEST ALL NEW PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
9. CONTRACTOR SHALL BID PROJECT BASED ON NEW CARRIERS FOR EVERY NEW WALL-MOUNTED PLUMBING FIXTURE. CONTRACTOR SHALL ALSO INCLUDE A PER-CARRIER LINE-ITEM DEDUCT IN BID FOR ALL EXISTING CARRIERS THAT ARE FIELD VERIFIED TO BE SUITABLE FOR REUSE.

KEYED NOTES (P201)

1. EXISTING FLOOR DRAIN SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING TRAP PRIMER AND CONNECT TO NEW TRAP PRIMER CONNECTION IN PIPE CHASE. REFER TO DETAILS ON P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
2. CONNECT NEW WALL HUNG WATER CLOSET TO NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
3. CONNECT NEW WALL HUNG URINAL TO NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
4. ROUTE NEW 2" WASTE AND 2" VENT FROM NEW UNDER COUNTER MOUNTED LAVATORY OR SINK AND CONNECT TO EXISTING PIPING. INSTALL NEW MIXING VALVE AS HIGH AS POSSIBLE BELOW LAVATORY. ROUTE 1/2" HOT AND 1/2" COLD WATER PIPING FROM CHASE AND CONNECT TO MIXING VALVE. ROUTE 1/2" TW PIPE FROM MIXING VALVE TO LAVATORY FAUCET. REFER TO DETAIL 3C/P401 AND SCHEDULE ON DWG P501.
5. CONNECT NEW WALL HUNG ELECTRIC DRINKING FOUNTAIN TO EXISTING WASTE, VENT AND COLD WATER PIPING IN CHASE. MODIFY EXISTING ROUGHINS AS REQUIRED.
6. PROVIDE NEW SERVICE SINK AND INSTALL AT ELEVATION NECESSARY FOR WASTE PIPE TO AVOID BEAM PENETRATION. RE: KEYED NOTE 11.
7. CONNECT NEW 3/4" HW TO EXISTING HOT WATER PIPE AND CONNECT 3/4" HWR TO EXISTING HOT WATER RETURN PIPE ABOVE CEILING. CONTRACTOR SHALL FIELD VERIFY FOR EXACT SIZE AND LOCATION.
8. CONNECT NEW 3/4" CW PIPE TO EXISTING COLD WATER PIPE AND ROUTE IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" CW PIPE TO MIXING VALVE AT EACH LAVATORY.
9. NEW 2" WASTE PIPE RUN HORIZONTAL IN FURRED OUT SPACE ABOVE FLOOR FOR LAVATORY.
10. FURNISH AND INSTALL NEW FLOOR DRAIN WITH TRAP PRIMER CONNECTION. REFER TO DETAILS ON P401. ROUTE NEW 3" WASTE PIPE AS SHOWN AND CONNECT TO EXISTING PIPING. NEW 2" VENT PIPE SHALL RISE FROM END OF TRAP ARM AND CONNECT TO EXISTING VENT PIPING. ROUTE 1/2" SOFT DRAWN COPPER TRAP PRIMER PIPE BELOW FLOOR FROM FLOOR DRAIN AND CONNECT TO TRAP PRIMER CONNECTION ON TAILPIECE OF WATER CLOSET FLUSH VALVE.
11. CONNECT NEW 2" WASTE PIPE FROM SERVICE SINK TO EXISTING 4" WASTE PIPE AND 2" VENT PIPE TO EXISTING VENT PIPE IN CHASE.
12. 3/4" CW AND 3/4" HW DROP IN WALL AND CONNECT TO SERVICE SINK FAUCET. ENSURE HW PIPE DOES NOT EXCEED 21 FT DEVELOPED LENGTH FROM MAIN TO FAUCET PER 2021 IECC.
13. CONNECT NEW 3/4" CW PIPE TO EXISTING COLD WATER PIPE IN CHASE AND ROUTE TO SERVICE SINK FAUCET.
14. ROUTE NEW 2" WASTE AND 2" VENT FROM NEW WALL-MOUNTED LAVATORY AND CONNECT TO EXISTING PIPING. CONTRACTOR SHALL MODIFY EXISTING PIPING AS REQUIRED. INSTALL NEW MIXING VALVE AS HIGH AS POSSIBLE BELOW LAVATORY. ROUTE 1/2" TW PIPE FROM MIXING VALVE TO LAVATORY FAUCET. REFER TO DETAIL 3C/P401 AND SCHEDULE ON DWG P501.
15. 2" WASTE PIPE DROP TO BELOW FLOOR AND CONNECT TO EXISTING WASTE PIPE.
16. 1/2" CW DROP IN WALL TO INSTANTANEOUS WATER HEATER AND MIXING VALVE. EXTEND 1/2" HW FROM INSTANTANEOUS WATER HEATER TO MIXING VALVE AND 1/2" TW FROM MIXING VALVE TO WALL HUNG LAVATORY.
17. CONNECT NEW 2" VENT AND 1/2" CW TO EXISTING VENT AND CW PIPING ABOVE CEILING.
18. INSTANTANEOUS WATER HEATER BELOW LAVATORY. CONTRACTOR SHALL INSTALL AS HIGH AS POSSIBLE.
19. 3/4" HW PIPE DROP IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" HW PIPE TO MIXING VALVE AT EACH LAVATORY.
20. 3/4" HW PIPE RISE TO ABOVE CEILING AND ROUTE TO LAVATORY MIXING VALVE(S).
21. HWR PIPE RISE TO ABOVE CEILING AND ROUTE TO EXISTING HWR PIPING AS SHOWN.
22. CONNECT NEW 4" WASTE PIPE TO EXISTING 4" WASTE PIPE BELOW FLOOR. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING 4" WASTE PIPE LOCATION..
23. ROUTE NEW 4" WASTE PIPE FROM NEW WATER CLOSETS ABOVE FLOOR IN PIPE CHASE AND DROP BELOW FLOOR AT LOCATION INDICATED.
24. CONNECT NEW 2" CW PIPE TO EXISTING COLD WATER PIPE AND DROP IN WALL TO NEW WATER CLOSETS. CONNECT 1-1/2" CW PIPE TO EACH WATER CLOSET.
25. CONNECT NEW WALL HUNG WATER CLOSET TO NEW CARRIER. CONNECT NEW 4" WASTE PIPE TO NEW 4" WASTE PIPE IN CHASE. CONNECT NEW 2" VENT PIPE TO EXISTING MINIMUM 2" VENT PIPE IN CHASE OR ABOVE CEILING. CONNECT NEW 1 1/2" CW TO NEW 2" CW IN CHASE. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE SIZES BEFORE ROUTING ANY NEW PIPING.
26. EXISTING HOSE BIBBS TO REMAIN. FIELD VERIFY EXACT LOCATION.
27. EXTEND EXISTING 2-1/2" COLD WATER MAIN BELOW FLOOR TO NEW CHASE. RISE IN CHASE AND CONNECT TO EXISTING COLD WATER PIPING.

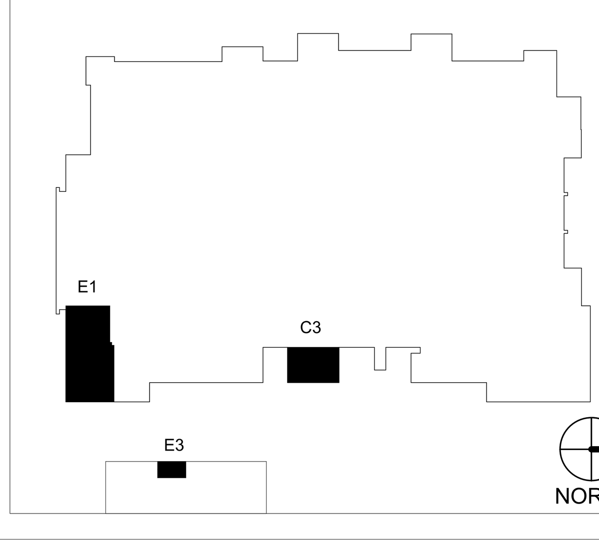
KEYED NOTES (P201)

28. 1/2" CW DROP IN WALL AND ROUTE TO ICEMAKER. TRANSITION AS REQUIRED. PROVIDE WATER HAMMER ARRESTER, EITHER ON COLD WATER LINE OR AS PART OF WASHING MACHINE BOX, RE: KEYED NOTE 33. PROVIDE AND INSTALL LINE SIZE REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION ASSEMBLY (RPZA), WATTS SERIES LF009QT-S OR EQUAL, PRIOR TO CONNECTION TO ICEMAKER. PROVIDE BACKFLOW PREVENTER WITH STRAINER UPSTREAM AND 1/4-TURN BALL VALVES. ROUTE DRAIN FROM BACKFLOW PREVENTER TO WASHING MACHINE BOX, RE: KEYED NOTE 33, SINK TAILPIECE, OR OTHER INDIRECT DRAIN.
29. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING HOT WATER RETURN PIPE. PROVIDE SHUTOFF VALVE AND BALANCING VALVE ON NEW PIPE AND ON OLD PIPE. ENSURE VALVES ARE ACCESSIBLE ABOVE NEW OR EXISTING LAY-IN CEILING. VERIFY EXISTING LOCATION BEFORE ROUTING NEW PIPING. BALANCE EACH BALANCING VALVE TO 0.5 GPM OR AS DIRECTED BY COMMISSIONING AGENT FOR COMPATIBILITY WITH EXISTING HWCP.
30. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING HOT WATER RETURN PIPE. PROVIDE SHUTOFF VALVE AND BALANCING VALVE ON NEW PIPE. ENSURE VALVES ARE ACCESSIBLE ABOVE NEW OR EXISTING LAY-IN CEILING. VERIFY EXISTING LOCATION BEFORE ROUTING NEW PIPING. BALANCE EACH BALANCING VALVE TO 0.5 GPM OR AS DIRECTED BY COMMISSIONING AGENT FOR COMPATIBILITY WITH EXISTING HWCP.
31. ROUTE FLEXIBLE ICEMAKER DRAIN TUBING AS HIGH AS POSSIBLE UNDER COUNTER TO WASHING MACHINE BOX OR OTHER AIR GAP FITTING. INSTALL BOX/FITTING AS HIGH AS POSSIBLE BELOW COUNTER, BEHIND ICEMAKER. ROUTE 1-1/2" WASTE PIPE FROM AIR GAP FITTING TO 2" WASTE PIPE IN WALL, RE: KEYED NOTE 36. OWNER SHALL ENSURE THAT ICEMAKER INCLUDES INTEGRAL DRAIN PUMP.
32. 2" WASTE PIPE DROP TO BELOW FLOOR AND CONNECT TO EXISTING 3" WASTE PIPE.
33. 2" WASTE PIPE DROP TO BELOW FLOOR AND CONNECT TO EXISTING 4" WASTE PIPE.
34. NEW HOSE BIBB IN RECESSED LOCKABLE ENCLOSED BOX, REFER TO FIXTURE SCHEDULE ON P501. CONNECT NEW 3/4" COLD WATER PIPING TO EXISTING PIPING.
35. FIELD VERIFY LOCATION OF EXISTING WALL CLEANOUT. IF NONE, ADD NEW 4" WCO AND CONNECT TO EXISTING WASTE PIPING UPSTREAM OF NEW WATER CLOSET.

FLOOR PLAN LEGEND

N.I.C. — AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED PLUMBING FLOOR PLANS
SHEET NO.
P201

6/6/2022 10:15:58 AM
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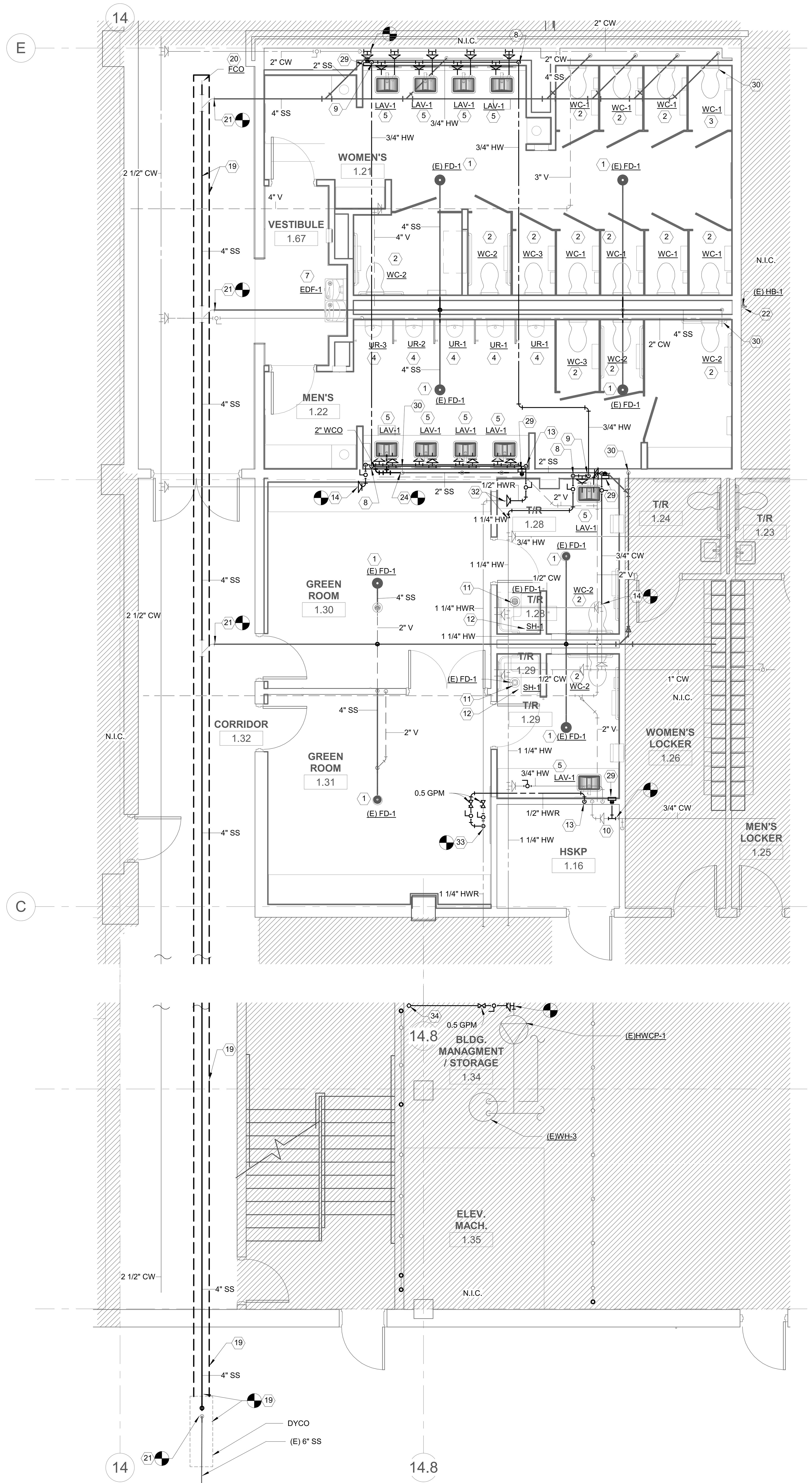
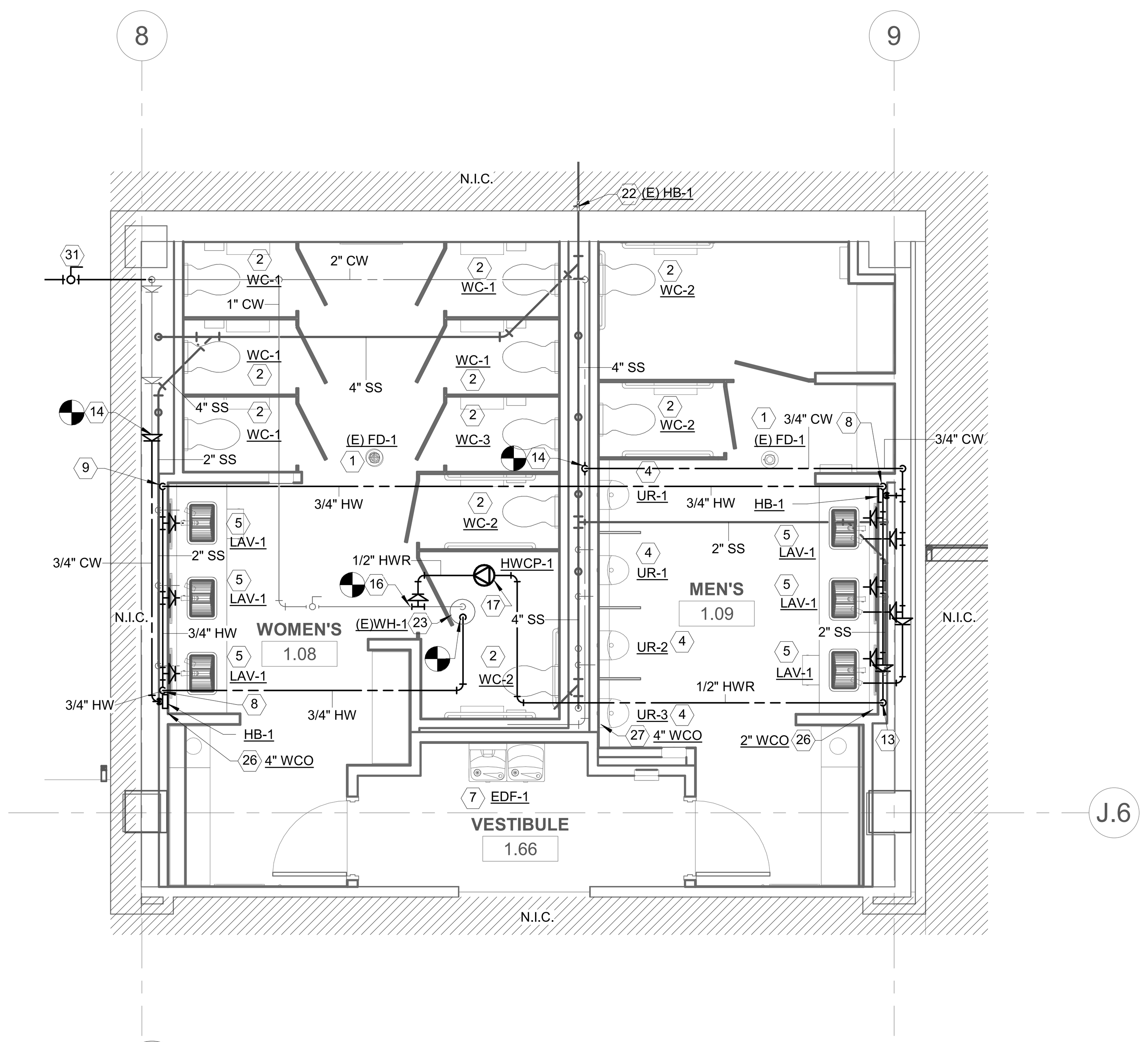


E1 P202 PLUMBING - LEVEL 1 - NORTH RESTROOM AND GREEN ROOM FLOOR PLAN

1/4" = 1'-0"

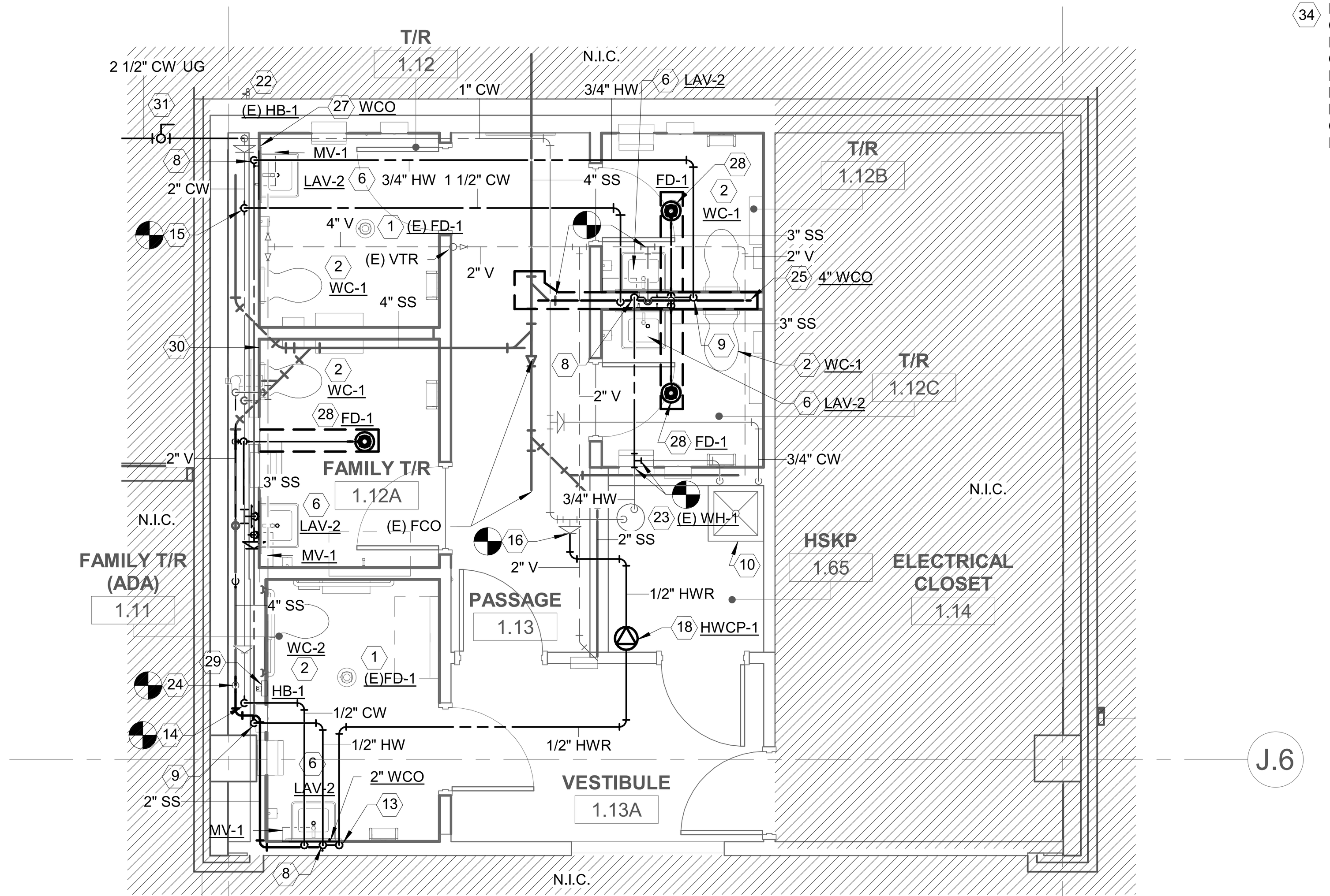
NORTH PLAN N.



B3 P202 PLUMBING - LEVEL 1 - WEST RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.



E3 P202 PLUMBING - LEVEL 1 - WEST FAMILY RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (P202)

1. CONTRACTOR SHALL FIELD VERIFY THE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING LOCATIONS ROUTED ABOVE FLOOR. CONTRACTOR TO SALVAGE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING AS CONSTRCUTION FEASIBILITY PERMITS. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO SERVE EXISTING PLUMBING FIXTURES AND PROPOSED NEW PLUMBING FIXTURES AS REQUIRED. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO AVOID CONFLICT WITH STRUCTURE AND OTHER DISCIPLINES. PROVIDE SHOP DRAWINGS PRIOR TO BEGINNING WORK AND INFORM THE A/E TEAM OF ANY DISCREPANCIES WITH THE PROPOSED SOLUTIONS.
2. BEFORE ROUTING NEW PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING HOT AND COLD WATER PIPING ABOVE CEILING. CONNECT NEW CW AND HW TO EXISTING PIPING AND DROP IN WALL TO NEW MIXING VALVE LOCATION AS INDICATED. EXTEND TW PIPE FROM MIXING VALVES TO LAVATORY FAUCETS.
4. CONTRACTOR SHALL PROVIDE ADEQUATE CLEANOUTS FOR CLEANING OF THE ENTIRE SANITARY SEWER SYSTEM AS REQUIRED. PROVIDE A CLEANOUT AT EACH PLUMBING BATTERY AT 4'-0" A.F.F.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES. FURNISH AND INSTALL NEW SHUTOFF VALVES AND ACCESS PANELS AS REQUIRED TO PROVIDE EACH RENOVATED RESTROOM ITS OWN SHUTOFF VALVES FOR COLD WATER, HOT WATER, AND HOT WATER RETURN THAT WILL NOT SHUT OFF SERVICE TO FIXTURES IN OTHER RESTROOM GROUPS. WHERE FEASIBLE, LOCATE NEW VALVES IN WALL 4 TO 5 FT AFF. COORDINATE ACCESS PANEL LOCATIONS WITH ARCHITECT. CONTRACTOR SHALL INCLUDE UNIT PRICE IN BID FOR INSTALLATION OF NEW SHUTOFF VALVE FOR EACH SIZE 1/2" THROUGH 2".
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.
7. CONTRACTOR SHALL FLUSH AND STERILIZE ALL NEW DOMESTIC WATER PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
8. CONTRACTOR SHALL PRESSURE TEST ALL NEW PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
9. CONTRACTOR SHALL BID PROJECT BASED ON NEW CARRIERS FOR EVERY NEW WALL-MOUNTED PLUMBING FIXTURE. CONTRACTOR SHALL ALSO INCLUDE A PER-CARRIER LINE-ITEM DEDUCT IN BID FOR ALL EXISTING CARRIERS THAT ARE FIELD VERIFIED TO BE SUITABLE FOR REUSE.

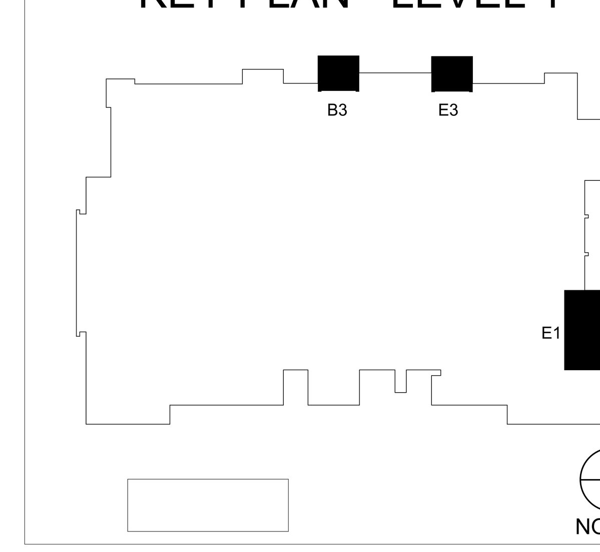
KEYED NOTES (P202)

1. EXISTING FLOOR DRAIN SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING TRAP PRIMER AND CONNECT TO NEW TRAP PRIMER CONNECTION IN PIPE CHASE. REFER TO DETAILS ON P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
2. CONNECT NEW WALL HUNG WATER CLOSET TO EXISTING OR NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
3. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING SANITARY, VENT AND COLD WATER PIPING. FURNISH AND INSTALL WATER CLOSET CARRIER. EXTEND NEW 4" WASTE, 2" VENT AND 1-1/2" COLD WATER PIPING TO NEW WALL HUNG WATER CLOSET.
4. CONNECT NEW WALL HUNG URINAL TO NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
5. ROUTE NEW 2" WASTE AND 2" VENT FROM NEW UNDER COUNTER MOUNTED LAVATORY AND CONNECT TO EXISTING PIPING. INSTALL NEW MIXING VALVE AS HIGH AS POSSIBLE BELOW LAVATORY. ROUTE 1/2" HOT AND 1/2" COLD WATER PIPING FROM CHASE AND CONNECT TO MIXING VALVE. ROUTE 1/2" TW PIPE FROM MIXING VALVE TO LAVATORY FAUCET. REFER TO DETAIL 3C/P401 AND SCHEDULE ON DWG P501.
6. ROUTE NEW 2" WASTE AND 2" VENT FROM NEW WALL HUNG LAVATORY AND CONNECT TO EXISTING PIPING. INSTALL NEW MIXING VALVE AS HIGH AS POSSIBLE BELOW LAVATORY. ROUTE 1/2" HOT AND 1/2" COLD WATER PIPING FROM CHASE AND CONNECT TO MIXING VALVE. ROUTE 1/2" TW PIPE FROM MIXING VALVE TO LAVATORY FAUCET. REFER TO DETAIL 3C/P401 AND SCHEDULE ON DWG P501.
7. CONNECT NEW WALL HUNG ELECTRIC DRINKING FOUNTAIN TO EXISTING WASTE, VENT, AND COLD WATER PIPING IN CHASE. MODIFY EXISTING ROUGH-INS AS REQUIRED.
8. 3/4" HW PIPE DROP IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" HW PIPE TO MIXING VALVE AT EACH LAVATORY.
9. 3/4" HW PIPE RISE TO ABOVE CEILING AND ROUTE TO LAVATORY MIXING VALVE(S).
10. EXISTING MOP SINK TO REMAIN.
11. EXISTING DRAIN IN SHOWER TO REMAIN. CONTRACTOR SHALL CLEAN SHOWER DRAIN OF ANY DEBRIS DURING CONSTRUCTION.
12. FURNISH AND INSTALL NEW HAND HELD SHOWER. CONNECT TO EXISTING COLD WATER AND HOT WATER PIPING. VERIFY LOCATION OF EXISTING PIPING PRIOR TO PURCHASE OF NEW SHOWER. INSTALL CONTROL VALVE AND SHOWERHEAD ON SHOWER SIDEWALL OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE AND VALVES CAN BE ADJUSTED FROM OUTSIDE THE SPRAY PER UPC 408.9.
13. 1/2" HWR PIPE RISE TO ABOVE CEILING AND ROUTE TO HWCP OR EXISTING HWR PIPING AS SHOWN.
14. CONNECT NEW 3/4" CW PIPE TO EXISTING COLD WATER PIPE AND ROUTE IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" CW PIPE TO MIXING VALVE AT EACH LAVATORY. CONNECT 3/4" CW TO NEW HOSE BIBB.
15. CONNECT NEW 1 1/2" CW PIPE TO EXISTING COLD WATER PIPE, RISE ABOVE CEILING, AND ROUTE TO NEW LAVATORIES AND WATER CLOSETS AS SHOWN.
16. CONNECT 1/2" HWR PIPE TO EXISTING CW WATER HEATER SUPPLY PIPE. CONTRACTOR SHALL FIELD VERIFY FOR EXACT LOCATION OF WATER HEATER BEFORE ROUTING NEW PIPE.
17. NEW HOT WATER CIRCULATION PUMP, RE: 3B/P402. INSTALL SUCH THAT PUMP, WATER HEATER, AND ALL APPURTENANCES CAN BE ACCESSED AND REMOVED THROUGH NEW OR EXISTING ACCESS PANEL IN RESTROOM AND/OR LAY-IN CEILING IN VESTIBULE. COORDINATE PANEL SIZE AND LOCATION WITH ARCHITECT.
18. NEW HOT WATER CIRCULATION PUMP, RE: 3B/P402. INSTALL SUCH THAT PUMP, WATER HEATER, AND ALL APPURTENANCES CAN BE ACCESSED AND REMOVED THROUGH EXISTING LAY-IN CEILING IN JANITORS CLOSET.
19. CONTRACTOR SHALL ROUTE NEW SANITARY SEWER PIPING AND CONNECT TO EXISTING DOUBLE YARD CLEANOUT. SAWCUT EXISTING CONCRETE SLAB FOR ROUTING OF NEW SANITARY SEWER PIPE. FIELD VERIFY FOR EXISTING SIZE AND LOCATION.
20. CONTRACTOR SHALL FIELD VERIFY AND CONNECT NEW FLOOR CLEANOUT TO NEW REPLACED WASTE PIPE SAME SIZE AS EXISTING.
21. CONNECT NEW WASTE PIPE TO EXISTING WASTE PIPE BELOW GRADE. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING WASTE PIPE SIZE, INVERT AND EXACT LOCATION.
22. EXISTING HOSE BIBBS TO REMAIN. FIELD VERIFY EXACT LOCATION.
23. EXISTING WATER HEATER TO REMAIN.
24. ROUTE NEW WASTE PIPE FROM NEW LAVATORY IN WALL ABOVE FLOOR AND CONNECT TO EXISTING WASTE PIPE ABOVE FLOOR.
25. PROVIDE NEW 4" WCO AND CONNECT TO NEW 4" WASTE PIPING UPSTREAM OF NEW PLUMBING FIXTURES. ROUTE 4" WASTE PIPING BELOW FLOOR AS SHOWN AND CONNECT TO EXISTING PIPING.
26. FIELD VERIFY LOCATION OF EXISTING WALL CLEANOUT. IF NONE, ADD NEW 4" WCO AND CONNECT TO EXISTING WASTE PIPING UPSTREAM OF NEW WATER CLOSET.
27. PROVIDE NEW WCO AND CONNECT TO EXISTING WASTE PIPING UPSTREAM OF NEW PLUMBING FIXTURES.
28. FURNISH AND INSTALL NEW FLOOR DRAIN WITH TRAP PRIMER CONNECTION. REFER TO DETAILS ON P401. ROUTE NEW 3" WASTE PIPE AS SHOWN AND CONNECT TO EXISTING PIPING. NEW 2" VENT PIPE SHALL RISE FROM END OF TRAP ARM AND CONNECT TO EXISTING VENT PIPING. ROUTE 1/2" SOFT DRAWN COPPER TRAP PRIMER PIPE BELOW FLOOR FROM FLOOR DRAIN AND CONNECT TO TRAP PRIMER CONNECTION ON TAILPIECE OF WATER CLOSET FLUSH VALVE.
29. NEW HOSE BIBB IN RECESSED LOCKABLE ENCLOSED BOX, REFER TO FIXTURE SCHEDULE ON P501. CONNECT NEW 3/4" COLD WATER PIPING TO EXISTING PIPING.
30. APPROXIMATE LOCATION OF EXISTING WALL CLEANOUT TO REMAIN.
31. EXISTING COLD WATER SHUTOFF VALVE IN VALVE BOX. CONTRACTOR SHALL VERIFY LOCATION AND OPERATIONALITY, RE: GENERAL NOTE 5.
32. CONNECT NEW HW PIPE TO EXISTING HW PIPE AND CONNECT NEW HWR PIPE TO EXISTING HWR PIPE. PROVIDE SHUTOFF VALVES ON NEW PIPING IN WALL BEFORE FIRST FIXTURE AND AFTER LAST FIXTURE, RE: GENERAL NOTE 5.
33. CONNECT NEW HOT WATER RETURN PIPE TO EXISTING HOT WATER RETURN PIPE. PROVIDE SHUTOFF VALVE AND BALANCING VALVE ON NEW PIPE AND ON OLD PIPE. ENSURE VALVES ARE ACCESSIBLE ABOVE NEW OR EXISTING LAY-IN CEILING. VERIFY EXISTING LOCATION BEFORE ROUTING NEW PIPING. BALANCE EACH BALANCING VALVE TO 0.5 GPM OR AS DIRECTED BY COMMISSIONING AGENT FOR COMPATIBILITY WITH EXISTING HWCP.
34. NEW 1/2" HWR PIPE DOWN FROM LEVEL ABOVE, RE: C1/P203. CONNECT TO EXISTING HOT WATER RETURN PIPE. PROVIDE SHUTOFF VALVE AND BALANCING VALVE ON NEW PIPE. ENSURE VALVES ARE ACCESSIBLE ABOVE NEW OR EXISTING LAY-IN CEILING. VERIFY EXISTING LOCATION BEFORE ROUTING NEW PIPING. BALANCE BALANCING VALVE TO 0.5 GPM OR AS DIRECTED BY COMMISSIONING AGENT FOR COMPATIBILITY WITH EXISTING HWCP.

FLOOR PLAN LEGEND

N.I.C.	AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 1



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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - ENLARGED PLUMBING FLOOR PLANS

SHEET NO.
P202

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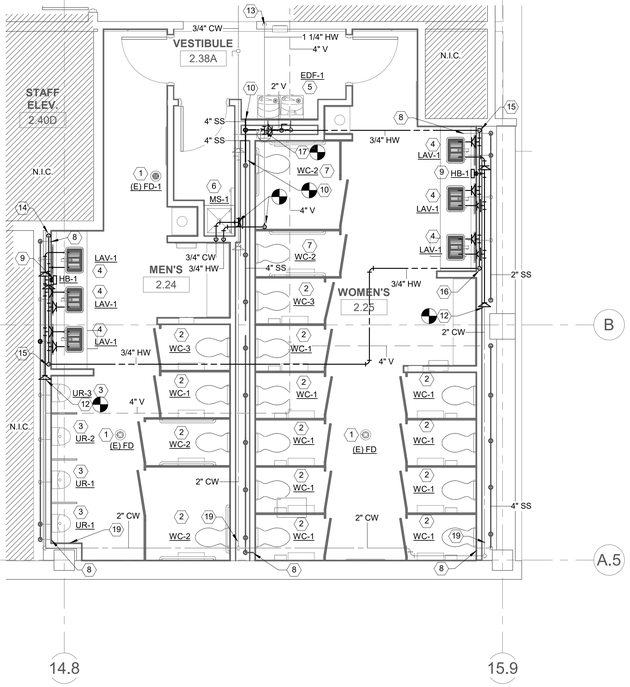
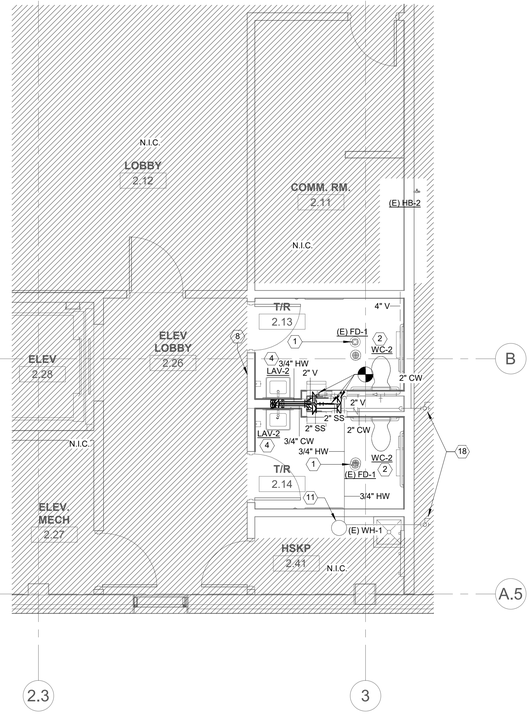


C1 P203 PLUMBING - LEVEL 2 - NORTH RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.



C3 P203 PLUMBING - LEVEL 2 - STAFF RESTROOM FLOOR PLAN

1/4" = 1'-0"

NORTH PLAN N.

GENERAL NOTES (P203)

1. CONTRACTOR SHALL FIELD VERIFY THE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING LOCATIONS ROUTED ABOVE FLOOR. CONTRACTOR TO SALVAGE EXISTING SANITARY SEWER AND DOMESTIC WATER PIPING AS CONSTRCUTION FEASIBILITY PERMITS. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO SERVE EXISTING PLUMBING FIXTURES AND PROPOSED NEW PLUMBING FIXTURES AS REQUIRED. CONTRACTOR TO ROUTE NEW SANITARY SEWER AND DOMESTIC WATER PIPING TO AVOID CONFLICT WITH STRUCTURE AND OTHER DISCIPLINES. PROVIDE SHOP DRAWIGNS PRIOR TO BEGINNING WORK AND INFORM THE A/E TEAM OF ANY DISCREPANCIES WITH THE PROPOSED SOLUTIONS.
2. BEFORE ROUTING NEW PIPING, CONTRATOR SHALL FIELD VERIFY ALL EXISTING WASTE, VENT, HOT AND COLD WATER PIPING SHOWN.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING HOT AND COLD WATER PIPING ABOVE CEILING. CONNECT NEW CW AND HW TO EXISTING PIPING AND DROP IN WALL TO NEW MIXING VALVE LOCATION AS INDICATED. EXTEND TW PIPE FROM MIXING VALVES TO LAVATORY FAUCETS.
4. CONTRACTOR SHALL PROVIDE ADEQUATE CLEANOUTS FOR CLEANING OF THE ENTIRE SANITARY SEWER SYSTEM AS REQUIRED. PROVIDE A CLEANOUT AT EACH PLUMBING BATTERY AT 4'-0" A.F.F.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SHUTOFF VALVES AND ACCESS PANELS SERVING EXISTING PLUMBING FIXTURES. FURNISH AND INSTALL NEW SHUTOFF VALVES AND ACCESS PANELS AS REQUIRED TO PROVIDE EACH RENOVATED RESTROOM ITS OWN SHUTOFF VALVES FOR COLD WATER, HOT WATER, AND HOT WATER RETURN THAT WILL NOT SHUT OFF SERVICE TO FIXTURES IN OTHER RESTROOM GROUPS. WHERE FEASIBLE, LOCATE NEW VALVES IN WALL 4 TO 5 FT AFF. COORDINATE ACCESS PANEL LOCATIONS WITH ARCHITECT. CONTRACTOR SHALL INCLUDE UNIT PRICE IN BID FOR INSTALLATION OF NEW SHUTOFF VALVE FOR EACH SIZE 1/2" THROUGH 2".
6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DRAINS TO REMAIN DURING CONSTRUCTION TO PREVENT DISCHARGE OF CONSTRUCTION WASTE.
7. CONTRACTOR SHALL FLUSH AND STERILIZE ALL NEW DOMESTIC WATER PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
8. CONTRACTOR SHALL PRESSURE TEST ALL NEW PIPING PRIOR TO CONNECTION TO EXISTING PIPING.
9. CONTRACTOR SHALL BID PROJECT BASED ON NEW CARRIERS FOR EVERY NEW WALL-MOUNTED PLUMBING FIXTURE. CONTRACTOR SHALL ALSO INCLUDE A PER-CARRIER LINE-ITEM DEDUCT IN BID FOR ALL EXISTING CARRIERS THAT ARE FIELD VERIFIED TO BE SUITABLE FOR REUSE.

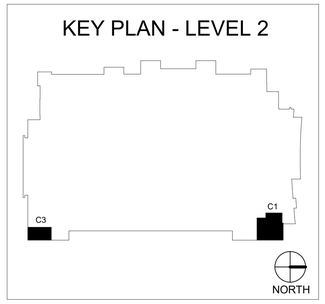
KEYED NOTES (P203)

1. EXISTING FLOOR DRAIN SHALL REMAIN. CONTRACTOR SHALL FIELD VERIFY FOR EXISTING TRAP PRIMER AND CONNECT TO NEW TRAP PRIMER CONNECTION IN PIPE CHASE. REFER TO DETAILS ON P401. REPLACE COVER WITH NEW COVER MATCHING MATERIAL OF NEW FLOOR DRAINS.
2. CONNECT NEW WALL HUNG WATER CLOSET TO EXISTING OR NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
3. CONNECT NEW WALL HUNG URINAL TO NEW CARRIER. MODIFY WASTE, VENT AND COLD WATER PIPING AS REQUIRED.
4. ROUTE NEW 2" WASTE AND 2" VENT FROM NEW UNDER COUNTER OR WALL MOUNTED LAVATORY AND CONNECT TO EXISTING PIPING. INSTALL NEW MIXING VALVE AS HIGH AS POSSIBLE BELOW LAVATORY. ROUTE 1/2" HOT AND 1/2" COLD WATER PIPING FROM CHASE AND CONNECT TO MIXING VALVE. ROUTE 1/2" TW PIPE FROM MIXING VALVE TO LAVATORY FAUCET. REFER TO DETAIL 3C/P401 AND SCHEDULE ON DWG P501.
5. CONNECT NEW WALL HUNG ELECTRIC DRINKING FOUNTAIN TO EXISTING WASTE, VENT AND COLD WATER PIPING IN CHASE. MODIFY EXISTING ROUGH-INS AS REQUIRED.
6. NEW 3" MOP SINK WASTE PIPE OUTLET CONNECT TO EXISTING WASTE PIPE BELOW FLOOR, 2" VENT, 3/4" CW AND 3/4" HW TO EXISTING VENT, COLD AND HOT WATER PIPING ABOVE CEILING.
7. CONNECT NEW WALL HUNG WATER CLOSET TO NEW CARRIER, EXTEND 4" WASTE PIPE IN CHASE OR BELOW FLOOR AND CONNECT TO EXISTING MINIMUM 4" WASTE PIPE. CONNECT 2" VENT PIPE AND 1 1/2" CW TO WATERCLOSET IN CHASE OR ABOVE CEILING. CONTRACTOR SHALL FIELD VERIFY EXISTING PIPE SIZES BEFORE ROUTING ANY NEW PIPING.
8. APPROXIMATE LOCATION OF EXISTING WALL CLEANOUT TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING WALL CLEANOUT FOR EXACT LOCATION AND SIZES PRIOR TO STARTING WORK.
9. NEW HOSE BIBB IN RECESSED LOCKABLE ENCLOSED BOX, REFER TO FIXTURE SCHEDULE ON P501. CONNECT NEW 3/4" COLD WATER PIPING TO EXISTING PIPING.
10. CONTRACTOR SHALL INSTALL NEW 4" WALL CLEANOUT TO EXISTING WASTE PIPE. FIELD VERIFY EXISTING WASTE PIPE BELOW FLOOR.
11. APPROXIMATE LOCATION OF EXISTING WATER HEATER SERVING LAVATORIES IN T/R 2.13 AND 2.14 AND EXISTING MOP SINK IN HSKP 2.41 TO REMAIN.
12. CONNECT NEW 3/4" CW PIPE TO EXISTING COLD WATER PIPE AND ROUTE IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" CW PIPE TO MIXING VALVE AT EACH LAVATORY. CONNECT 3/4" CW TO NEW HOSE BIBB.
13. EXISTING HOT WATER PIPE UP FROM LEVEL BELOW TO REMAIN.
14. NEW 1/2" HWR PIPE DROP IN WALL TO LEVEL BELOW AND CONNECT TO EXISTING HOT WATER RETURN PIPE. PROVIDE SHUTOFF VALVE AND BALANCING VALVE ON NEW PIPE ON LEVEL BELOW, RE: E1/P202. ENSURE VALVES ARE ACCESSIBLE ABOVE NEW OR EXISTING LAY-IN CEILING. VERIFY EXISTING LOCATION BEFORE ROUTING NEW PIPING. BALANCE BALANCING VALVE TO 0.5 GPM OR AS DIRECTED BY COMMISSIONING AGENT FOR COMPATIBILITY WITH EXISTING HWCP.
15. 3/4" HW PIPE DROP IN WALL TO BELOW LAVATORY COUNTERTOP. CONNECT 1/2" HW PIPE TO MIXING VALVE AT EACH LAVATORY.
16. 3/4" HW PIPE RISE TO ABOVE CEILING AND ROUTE TO LAVATORY MIXING VALVE(S).
17. CONNECT NEW HW PIPE TO EXISTING HW PIPE. PROVIDE SHUTOFF VALVES ON NEW PIPING IN WALL BEFORE FIRST FIXTURE, RE: GENERAL NOTE 5.
18. VERIFY LOCATION AND FUNCTIONALITY OF EXISTING SHUTOFF VALVES ON COLD WATER PIPE SERVING T/R 2.13 AND 2.14 AND ON COLD WATER PIPE SERVING EXISTING WATER HEATER IN HSKP 2.41. IF VALVES ARE NOT FUNCTIONAL, REPLACE THEM AT UNIT BID PRICE, RE: GENERAL NOTE 5.
19. IF THERE ARE NO EXISTING SHUTOFF VALVES FOR LEVEL 2 NORTH RESTROOMS, PROVIDE NEW SHUTOFF VALVES ON EXISTING COLD WATER PIPE AT UNIT BID PRICE, RE: GENERAL NOTE 5. COORDINATE ACCESS PANEL LOCATIONS IN WALL WITH ARCHITECT AND ENGINEER.

FLOOR PLAN LEGEND

N.I.C. AREA NOT IN PHASE OF WORK

KEY PLAN - LEVEL 2



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FIRE ALARM, TELEPHONE, TELEVISION
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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 2 - ENLARGED PLUMBING FLOOR PLANS

SHEET NO.
P203

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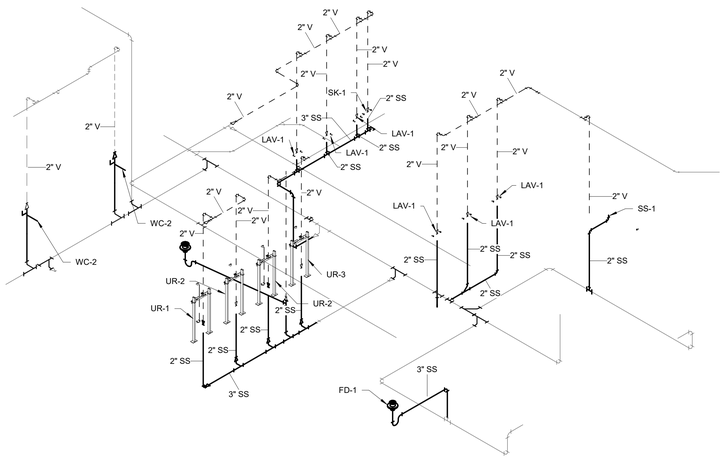
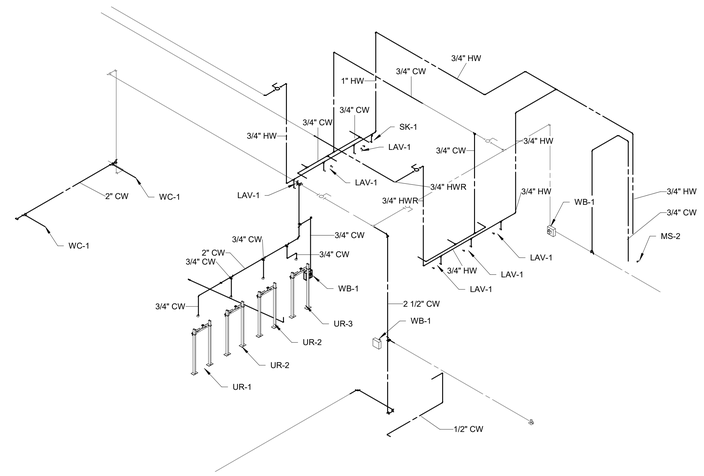
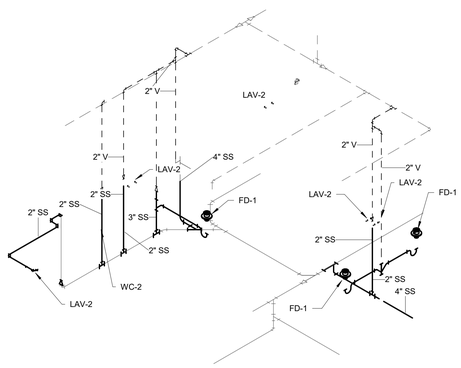


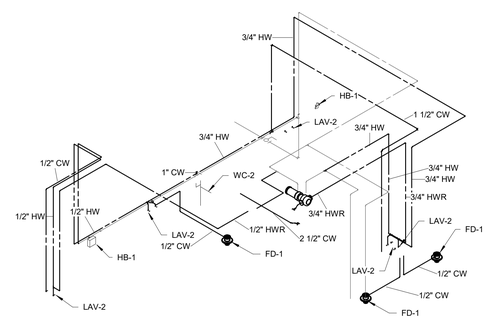
1B P301 EAST RR WASTE AND VENT RISER



3B P301 EAST RR DOMESTIC WATER RISER



1D P301 FAMILY RR WASTE AND VENT



3D P301 FAMILY RR DOMESTIC WATER RISER

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TBPLS FIRM # 10194704

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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
PLUMBING RISER DIAGRAMS

SHEET NO.
P301

6/6/2022 10:16:14 AM
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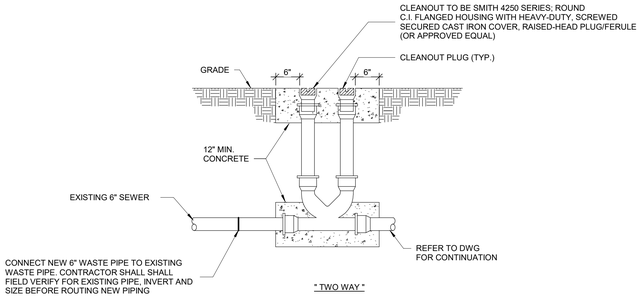
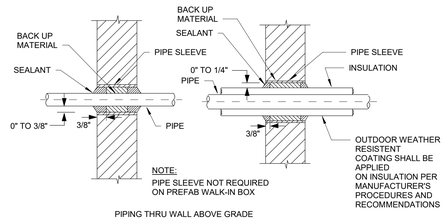
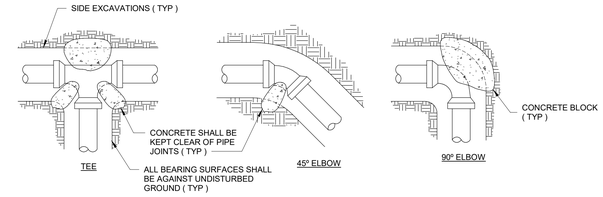


1A DOUBLE YARD CLEANOUT DETAIL
P401 NOT TO SCALE

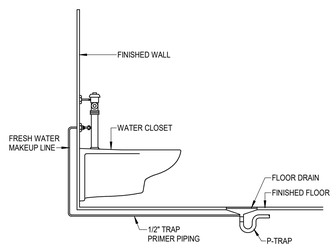


3A PIPING THROUGH WALL ABOVE GRADE
P401 NOT TO SCALE

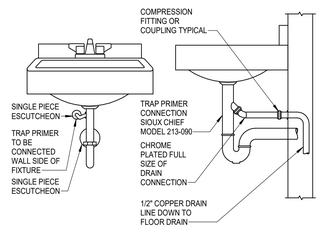


BEARING AREAS EACH DIRECTION OF THRUST IN SQUARE FEET			
PIPE SIZE	TEES & DEADENDS	90° ELBOWS	45° ELBOW CROSSES IN DIRECTION OF FLOW
6"	7.0	9.5	5.0

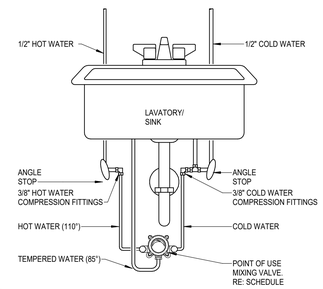
4A TYP. THRUST BLOCK INSTALLATION DETAIL
P401 NOT TO SCALE



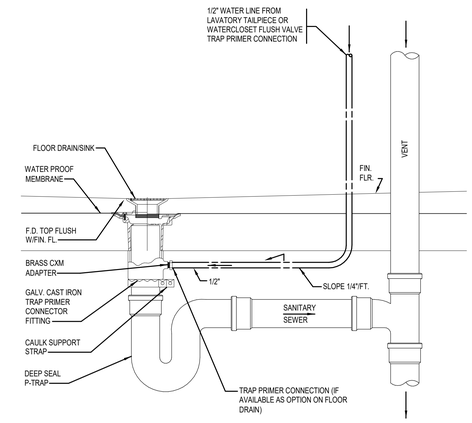
1C TRAP PRIMER DETAIL
P401 NOT TO SCALE



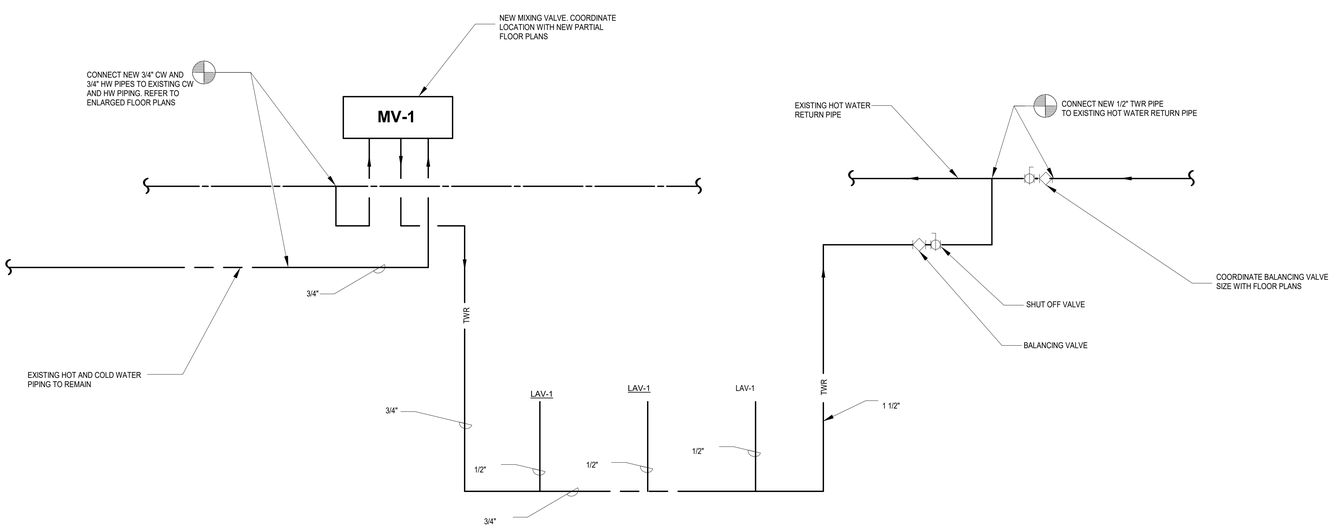
2C TRAP PRIMER AT LAVATORY DETAIL
P401 NOT TO SCALE



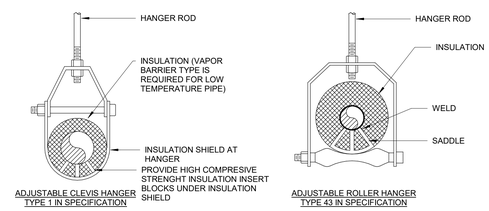
3C POINT OF USE MIXING VALVE DETAIL
P401 NOT TO SCALE

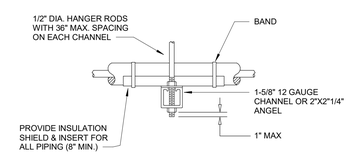


5C FLOOR DRAIN TRAP PRIMER DETAIL
P401 1/8" = 1'-0"



1E LAVATORY TEMPERED WATER RISER DETAIL
P401 NOT TO SCALE





MAXIMUM PIPE/TUBING SUPPORT SPACING, FEET																	
NOM. SIZE	THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	7 FT	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	5 FT	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-	-	-
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE																		

5E TYP. PIPE HANGER DETAIL
P401 NOT TO SCALE

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REG. NO. F-7964

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ELECTRICAL ENGINEERING
PLUMBING ENGINEERING
FIRE PROTECTION ENGINEERING
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TBPE FIRM # F-7964
TBPELS FIRM # 10018700

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P401

6/6/2022 10:16:16 AM
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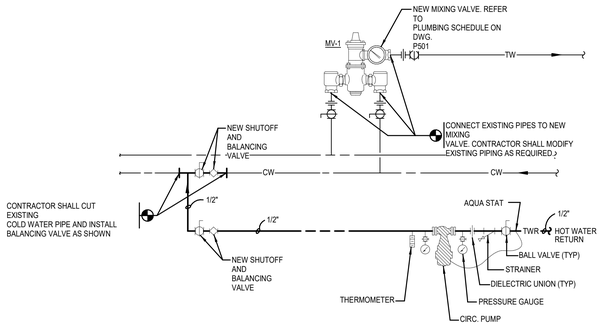
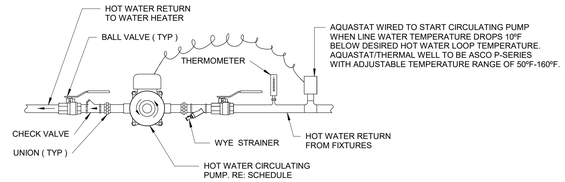


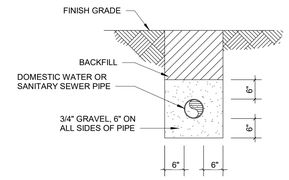
1B MULTIPLE FIXTURE MIXING VALVE DETAIL
P402
NOT TO SCALE



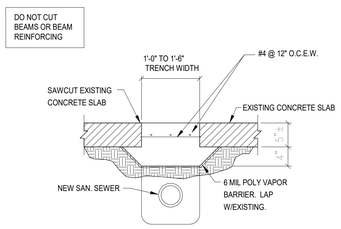
NOTES:

1. PROVIDE AND INSTALL ACCESS PANELS WHERE REQUIRED.
2. PROVIDE AQUASTAT ON HOT WATER RETURN LINE, WIRED TO START CIRCULATING PUMP WHEN LINE WATER TEMPERATURE DROPS 10ºF BELOW DESIRED HOT WATER LOOP TEMPERATURE. REFERENCE SCHEDULE FOR INITIAL SETPOINT.
3. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL START THE PUMP BASED ON THE IDENTIFICATION OF A DEMAND FOR HOT WATER WITHIN THE OCCUPANCY. THE CONTROLS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NO DEMAND FOR HOT WATER.

3B RECIRCULATING PUMP DETAIL
P402
NOT TO SCALE



5B PIPE IN TRENCH DETAIL
P402
NOT TO SCALE



1C SAWCUTTING DETAIL
P402
NOT TO SCALE

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Drawn	Author
Checked	Checker
Date	06/06/2022
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Revisions	

SHEET TITLE
PLUMBING DETAILS

SHEET NO.
P402

6/8/2022 10:16:17 AM
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PLUMBING FIXTURE AND CONNECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURERS	CONNECTIONS TW	CW	HW	SS	V	GW	GV
WC-1 WATER CLOSET	TOP SPUD. WALL HUNG, WHITE VITREOUS CHINA ELONGATED BOWL, HARD WIRED SENSOR OPERATED EXPOSED FLUSHOMETER, 1.28 GALLON PER FLUSH. CHURCH WHITE OPEN FRONT SEAT LESS COVER. PROVIDE CHAIR CARRIER AS REQUIRED. MOUNT HEIGHT AS INDICATED ON ARCHITECTURAL PLANS.	AMERICAN STANDARD # 3351.101 AMERICAN STANDARD ELECTRONIC EXPOSED #6067.161.002 CHURCH # 9500C	-	1 1/2"	-	4"	2"	-	-
WC-2 WATER CLOSET A.D.A. COMPLIANT	TOP SPUD. WALL HUNG, WHITE VITREOUS CHINA ELONGATED BOWL, HARD WIRED SENSOR OPERATED EXPOSED FLUSHOMETER, 1.28 GALLON PER FLUSH. CHURCH WHITE OPEN FRONT SEAT LESS COVER. PROVIDE CHAIR CARRIER AS REQUIRED. MOUNT AT ADA HEIGHT.	AMERICAN STANDARD # 3351.101 AMERICAN STANDARD ELECTRONIC EXPOSED # 6067.161.002CHURCH # 9500C	-	1 1/2"	-	4"	2"	-	-
WC-3 WATER CLOSET CHILDREN	TOP SPUD. WALL HUNG, WHITE VITREOUS CHINA ELONGATED BOWL, HARD WIRED SENSOR OPERATATED EXPOSED FLUSHOMETER, 1.28 GALLON PER FLUSH. CHURCH WHITE OPEN FRONT SEAT LESS COVER. PROVIDE CHAIR CARRIER AS REQUIRED. MOUNT HEIGHT FOR CHILDREN AS INDICATED ON ARCHITECTURAL PLANS.	AMERICAN STANDARD # 3351.101 AMERICAN STANDARD ELECTRONIC EXPOSED #6067.161.002 CHURCH # 9500C	-	1 1/2"	-	4"	2"	-	-
UR-1 URINAL	WALL MOUNTED, VITREOUS CHINA, 0.5 GPF, HARD WIRED SENSOR OPERATED EXPOSED FLUSHOMETER. PROVIDE CARRIER AS REQUIRED. MOUNT HEIGHT AS INDICATED ON ARCHITECTURAL PLANS.	DECORUM 0.125 AMERICAN STANDARD SELECTRONIC 606B.051	-	3/4"	-	2"	2"	-	-
UR-2 URINAL A.D.A COMPLIANT	WALL MOUNTED, VITREOUS CHINA, TOP SPUD, 0.5 GPF, HARD WIRED SENSOR OPERATED EXPOSED FLUSHOMETER. PROVIDE CARRIER AS REQUIRED. MOUNT ADA OR TAS HEIGHT AS INDICATED ON ARCHITECTURAL PLANS.	DECORUM 0.125 AMERICAN STANDARD SELECTRONIC 606B.051	-	3/4"	-	2"	2"	-	-
UR-3 URINAL CHILDREN	WALL MOUNTED, VITREOUS CHINA, 0.5 GPF, HARD WIRED SENSOR OPERATED EXPOSED FLUSHOMETER. PROVIDE CARRIER AS REQUIRED. MOUNT HEIGHT AS INDICATED ON ARCHITECTURAL PLANS.	DECORUM 0.125 AMERICAN STANDARD SELECTRONIC 606B.051	-	3/4"	-	2"	2"	-	-
LAV-1 LAVATORY	UNDERMOUNT BATHROOM SINK WITH OVERFLOW, VITREOUS CHINA NOMINAL 20-1/4" X 15 11/16" X 7-5/16" HARDWIRED SENSOR OPERATED SOLID BRASS FAUCET, 0.5 GPM VANDAL RESISTANT NON-AERATOR SPRAY WITH SINGLE INLET, 17 GA. CHROME PLATED P-TRAP WITH INTEGRAL CLEANOUT, ESCUTCHEON. CHICAGO NO. 1006 LOOSE KEY STOPS WITH RISERS, CHROME PLATED BRASS GRID STRAINER, PROVIDE CARRIER.	KOHLER CAXTON RECTANGLE K-20000 KOHLER FAUCET K-13463	1/2"	1/2"	1/2"	2"	2"	-	-
LAV-2 LAVATORY A.D.A. COMPLIANT	WALL MOUNTED VITREOUS CHINA, NOMINAL 18-5/16" X 19-3/4" HARDWIRED SENSOR OPERATED, SEALED OVERFLOW, SINGLE FAUCET HOLE, OVAL BASIN, COMBINATION CONSISTS OF K-1997-1N BASIN AND THE K-1998 SHROUD. CHROME PLATED P-TRAP WITH INTEGRAL CLEANOUT, ESCUTCHEON. CHICAGO NO. 1006 LOOSE KEY STOPS WITH RISERS, CHROME PLATED BRASS GRID STRAINER, INSULATE DRAIN TAILPIECE, P-TRAP AND SUPPLIES WITH TRUEBRO "HANDI-LAV-GUARD," McGUIRE "PROWRAP" OR BROCAR "TRAP WRAP". PROVIDE CARRIER.	KOHLER BRENHAM K-1999-1N KOHLER FAUCET K-13463	1/2"	1/2"	1/2"	2"	2"	-	-
LAV-3 LAVATORY CHILDREN	WALL MOUNTED VITREOUS CHINA, NOMINAL 18-5/16" X 19-3/4" HARDWIRED SENSOR OPERATED, SEALED OVERFLOW, SINGLE FAUCET HOLE, OVAL BASIN, COMBINATION CONSISTS OF K-1997-1N BASIN AND THE K-1998 SHROUD. CHROME PLATED P-TRAP WITH INTEGRAL CLEANOUT, ESCUTCHEON. CHICAGO NO. 1006 LOOSE KEY STOPS WITH RISERS, CHROME PLATED BRASS GRID STRAINER, INSULATE DRAIN TAILPIECE, P-TRAP AND SUPPLIES WITH TRUEBRO "HANDI-LAV-GUARD," McGUIRE "PROWRAP" OR BROCAR "TRAP WRAP". PROVIDE CARRIER.	KOHLER BRENHAM K-1999-1N KOHLER FAUCET K-13463	1/2"	1/2"	1/2"	2"	2"	-	-
MS-1 MOP SINK	FIAT FLOOR MOUNTED CORNER UNIT 32" X 32" X 12" HIGH RECEPTOR COMPOSED OF PRECAST TERRAZZO WITH STAINLESS STEEL THRESHOLD CAP. FAUCET: INTEGRAL STOPS, 4-ARM BRASS HANDLE, PAIL HOOK, TOP BRACE WITH WALL FLANGE, VACUUM BREAKER, ROUGH CHROME PLATED. PROVIDE THREADED HOSE CONNECTION.	TSBC-3001 CHICAGO FAUCET NO. 897-CP		3/4"	3/4"	3"	2"		
EDF-1 DRINKING FOUNTAIN A.D.A. COMPLIANT	WALL MOUNTED BRASS FREE NO LEAD STAINLESS STEEL TWO-LEVEL WHEELCHAIR ACCESS WATER COOLER WITH BOTTLE FILLING STATION, PUSHBAR ACTIVATION. BOTTLE FILLING UNITS SHALL INCLUDE AN ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AN AUTOMATIC 20-SECOND SHUTOFF TIMER. FLEXI-GUARD SAFETY BUBBLER. DESIGN SHALL MEET ADA DUAL HEIGHT REQUIREMENTS. SUPPLY: MCGUIRE NO. 2165 CHROME PLATED SINGLE WALL FLANGE, WHEEL HANDLE STOPS, 3/8" IPS WITH 3/8" O.D. 12" LONG FLEXIBLE RISER, CHROME PLATED. P-TRAP: MCGUIRE NO. 8902, 1 1/4"x1 1/2"x17 GAUGE, CHROME PLATED CAST BRASS ADJUSTABLE SWIVEL P-TRAP WITH CLEANOUT, SLIP JOINT INLET AND TUBULAR WALL BEND WITH SHALLOW STEEL FLANGE. CARRIER: MIFAB NO. MC32 TOP AND BOTTOM HANGER PLATE CARRIER, PIPE UPRIGHTS, BLOCK BASE FEET. MOUNTING HEIGHT: INSTALL IN ACCORDANCE WITH ADA REGULATIONS. PROVIDE CANE TOUCH APRON.	ELKAY NO. LZWS-LRPBM28K		1/2"	-	2"	2"	-	-
HB-1 HOSE BIBB	EXPOSED TYPE, SELF DRAINING, NON FREEZE LOW LEAD WALL HYDRANT WITH A.S.S.E. 1011 APPROVED ANTI-SIPHON AND VANDAL RESISTANT INTEGRAL VACUUM BREAKER WITH 3/4" (19) MALE HOSE CONNECTION. HYDRANT ASSEMBLY COMPLETE WITH NEOPRENE PLUNGER TO CONTROL BOTH THE FLOW AND DRAIN FUNCTIONS, HARDENED BRONZE OPERATING STEM, DRAIN PORT UNDER THE HEXAGON NUT, HEAVY DUTY BRASS CASING, 360 DEGREE SWIVEL INLET CONNECTION, HEAVY DUTY CHROME PLATED BRONZE HEAD CASTING, POLISHED CHROME PLATED FACE PLATE, AND SATIN FINISHED NICKEL BRONZE BOX WITH HINGED LOCKING COVER. OPERATING KEY TO BE FURNISHED WITH EACH HYDRANT.	MIFAB MHY-25	-	3/4"	-	-	-	-	-
WCO WALL CLEANOUT	CAST IRON CLEANOUT FERRULE WITH BRONZE RAISED HEAD PLUG AND ROUND STAINLESS STEEL COVER PLATE WITH CENTER SECURING SCREW. PROVIDE CAST IRON CLEANOUT TEE IN LIEU OF FERRULE AS REQUIRED FOR WALL CONSTRUCTION.	MIFAB C1440-RD6 MIFAB C1460	-	-	-				
FCO FLOOR CLEANOUT	CAST IRON BODY WITH SECONDARY O-RING TEST SEAL AND ADJUSTABLE COMBINED ACCESS COVER/PLUG TOP ASSEMBLY WITH PRIMARY GASKET SEAL, AND ROUND SCORIATED NICKEL BRONZE COVER AND FOR CARPETED FLOORS.	MIFAB C1100-R-1 MIFAB C1100-RC-1	-	-	-				
FD-1 FLOOR DRAIN	BOTTOM OUTLET CAST IRON BODY, ADJUSTABLE 6" DIAMETER NICKEL BRONZE STRAINER WITH VANDAL PROOF SCREWS. PROVIDE CLAMPING DEVICE FOR DRAINS IN MEMBRANE FLOOR AREAS.	MIFAB F1100-1-6.	-	-	-	3"	2"	-	-
SH-1 SHOWER A.D.A. COMPLIANT	STAINLESS STEEL. FLEXIBLE AND HAND HELD SHOWER. 60" TO 84" HOSE.	LEONARD 515P(G) (1.5 GPM) AQUATROL 4500	-	1/2"	1/2"	3"	2"	-	-
SK-1 SINK A.D.A. COMPLIANT	UNDERMOUNT BATHROOM SINK WITH OVERFLOW, VITREOUS CHINA NOMINAL 19-3/4" X 15 5/8" X 6-1/4" HARDWIRED SENSOR OPERATED SOLID BRASS FAUCET, 0.5 GPM VANDAL RESISTANT NON-AERATOR SPRAY WITH SINGLE INLET, 17 GA. CHROME PLATED P-TRAP WITH INTEGRAL CLEANOUT, ESCUTCHEON. CHICAGO NO. 1006 LOOSE KEY STOPS WITH RISERS, CHROME PLATED BRASS GRID STRAINER, PROVIDE CARRIER.	KOHLER - KATHRYN - K-2330 AMERICAN STANDARD - SELECTRONIC - 605B.165	1/2"	-	-	2"	2"	-	-
SS-1 SERVICE SINK	ONE-PIECE MOLDED THERMOPLASTIC UTILITY TUB, LEAK PROOF, INTEGRALLY MOLDED DRAIN WITH STOPPER. MOLD AND MILDEW-RESISTANT COMPONENTS, WHITE FINISH, STEEL LEGS WITH ADJUSTABLE LEVELERS. 33"H X 18"W X 23-1/2"D. FAUCET: INTEGRAL STOPS, 4-ARM BRASS HANDLE, PAIL HOOK, TOP BRACE WITH WALL FLANGE, VACUUM BREAKER, ROUGH CHROME PLATED. PROVIDE THREADED HOSE CONNECTION.	MUSTEE - 12 CHICAGO FAUCET NO. 897-CP	-	3/4"	3/4"	2"	2"		

NOTES:

1. FURNISH AND INSTALL SLOAN TRANSFORMER MODEL NO. EL-154 TO WATERCLOSET FLUSH VALVE. MAXIMUM THREE (3) WATERCLOSET FLUSH VALVES PER TRANSFORMER. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR FINAL 115/1/60 CONNECTION TO TRANSFORMER PRIMARY SIDE AND ALL LOW VOLTAGE CONNECTIONS. ALL LOW VOLTAGE WIRING SUBJECT TO MECHANICAL DAMAGE SHALL BE ROUTED IN CONDUIT. CONDUIT AND INSTALLATION OF SAME TO BE IN ACCORDANCE WITH DIV. 26 SPECIFICATIONS.

2. FURNISH AND INSTALL SLOAN TRANSFORMER MODEL NO. EL-154 TO URINAL FLUSH VALVE. MAXIMUM THREE (3) URINAL FLUSH VALVES PER TRANSFORMER. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR FINAL 115/1/60 CONNECTION TO TRANSFORMER PRIMARY SIDE AND ALL LOW VOLTAGE CONNECTIONS. ALL LOW VOLTAGE WIRING SUBJECT TO MECHANICAL DAMAGE SHALL BE ROUTED IN CONDUIT. CONDUIT AND INSTALLATION OF SAME TO BE IN ACCORDANCE WITH DIV. 26 SPECIFICATIONS.

3. INSTALL UNIVERSAL LOW VOLTAGE HARDWIRED TRANSFORMER. INLET VOLTAGE: 115 VAC, 60 HZ. OUTLET VOLTAGE: 6 VDC TO LAVATORY FAUCET. MAXIMUM THREE (3) LAVATORY FAUCETS PER TRANSFORMER. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR ARRANGING FOR FINAL CONNECTION TO TRANSFORMER PRIMARY SIDE AND ALL LOW VOLTAGE CONNECTIONS. ALL LOW VOLTAGE WIRING SUBJECT TO MECHANICAL DAMAGE SHALL BE ROUTED IN CONDUIT. CONDUIT AND INSTALLATION OF SAME TO BE IN ACCORDANCE WITH DIV. 26 SPECIFICATIONS.

4. FURNISH AND INSTALL MIXING VALVE (MV-1) AT LAVATORY. REDUCE HOT WATER FROM 140° TO 85° AT LAVATORY.

DOMESTIC CW ESTIMATED ADDITIONAL CAMPUS LOAD - WSFU

FIX	FIXTURES	WSFU PER FIX	SUB-TL BLDG FIX
WC	70	10	700
UR	21	5	105
LAV	41	1.0	41
SINGLE SINK	-	-	-
MOP SINK	4	3	12
EDF	5	.25	1.25
TOTAL WSFUs			900.25

TOTAL WATER DEMAND LOAD APPROX: 900.25 WSFUs
PROJECTED DIVERSITY @ 80% = 720.20 WSFUs
720.20 WSFUs = APPROX. 177 GPM
177 GPM THROUGH 2-1/2" PIPE = 6 FEET PER SECOND
PER UPC 2021

SANITARY DRAINAGE LOAD- DFU

DESCRIPTION	TOTAL FIXTURE NO.	DFU PER FIX	SUB-TL BLDG FIX
WC	70	1	70
UR	21	0.25	5.25
LAV	41	1	41
SINGLE SINK	1	2	2
MOP SINK	4	3	12
EDF	5	0.5	2.50
FD 3"	14	6	84
EST. TOTAL DFU			216.75

TOTAL WASTE LOAD APPROX: 216.75 DFUs
ALLOWED DFUs: 4" DRAIN PIPE AT 1/8" PER FOOT = 700
PER UPC 2021

MIXING VALVE SCHEDULE

ITEM NO.	DEGREE SET AT	PEAK FLOW RATE (GPM)	MINIMUM PRESSURE DROP (PSI)	MINIMUM FLOW (GPM)	MANUFACTURER & MODEL NUMBER	NOTES
MV-1	90°	7	10	.5	SYMMONS 7-225-CK	1-4
MV-2	90°	7	10	.5	SYMMONS 7-225-CK	1-4

NOTES:

1. PROVIDE DIAL THERMOMETER, UNION AND SHUTOFF VALVES FOR SERVICEABILITY.
2. MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.
4. MIXING VALVE SHALL CONFORM TO ASSE 1070.

HYDRAULIC SHOCK ARRESTORS

P.D.I. SYMBOL	FIXTURE UNITS	CHAMBER LENGTH	SWEAT CONNECTION
A	1-11	9-5/8"	1/2"
B	12-32	11-3/4"	3/4"
C	33-60	14-11/18"	1"
D	61-113	12-3/8"	1"
E	114-154	15-3/8"	1"
F	155-330	17-3/8"	1"

HOT WATER CIRCULATING PUMP

ITEM NO.	QTY.	DESCRIPTION	SERVICE TO	TYPE	GPM	HEAD FEET	H.P. MIN	VOLT/ PHASE	MAX. RPM	MANUFACTURES AND MODEL
HWCP-1	2	ABOVE JANITOR CLOSET	EXISTING EWH	IN-LINE BRONZE	3	7	1/6	115/1	3,150	GRUNDFOS UPS-26-99-SFC

TANKLESS WATER HEATER SCHEDULE

ITEM NO.	TOTAL KW INPUT	RISE AT GPM	AMPS	ELECTRICAL REQUIRED	RECOMMENDED WIRE SIZE	MANUFACTURER'S COMMENTS	NOTES
TWH-1	2.6	44 @ 0.4	13A	208/1/60	14/2 AWG	STIEBEL ELTRON MODEL NO. MINI 4-2	1

1. WATER HEATERS SHALL BE UL RATED.

PIPE MATERIAL LIST

COORDINATE WITH SPEC'S.

DOMESTIC WATER PIPING
ABOVE SLAB INSIDE THE BUILDING SHALL BE SEAMLESS ASTM B 88 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER FITTINGS, ANSI B16.22. SOLDER MATERIAL SHALL BE LEAD FREE ONLY, ASTM B 32. THE USE OF DRILLED-T CONNECTIONS IS NOT PERMITTED.

BELOW SLAB WITHIN 5'-0" OF THE BUILDING SHALL BE ASTM B 88 TYPE K SOFT COPPER WATER TUBE WITH NO FITTINGS.

ALL DOMESTIC WATER PIPING SHALL BE INSULATED.

SANITARY SOIL WASTE AND VENT PIPING
ABOVE FLOOR INSIDE BUILDING WITHIN ENCLOSED CHASES OUT OF AIR PLENUMS SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

ABOVE FLOOR WITHIN RETURN AIR PLENUMS SHALL BE NO-HUB CAST IRON SYSTEM CONFORMING TO CISPI STANDARD NO. 301-75. NEOPRENE GASKETS SHALL CONFORM TO ASTM STANDARD C564-75 WITH STAINLESS STEEL HEAVY DUTY COUPLINGS. ALTERNATELY, USE FIREWRAPPED SCHEDULE 40 POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

BELOW GRADE SHALL BE SCHEDULE 80 DWV POLYVINYL CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-1784-82 WITH SOLVENT WELDED JOINTS.

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Drawn	ML
Checked	JB
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
PLUMBING SCHEDULES

SHEET NO.
P501

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ELECTRICAL SYMBOLS & ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

SYMBOL / DESCRIPTION

GENERAL

SYMBOL	DESCRIPTION
	MOTOR, HP AS INDICATED
	DISCONNECT SWITCH
	MOTOR CONTROLLER
	COMBINATION MOTOR CONTROLLER/DISCONNECT UNIT
VFD	VARIABLE FREQUENCY DRIVE
C	CONTACTOR
J	JUNCTION BOX, CEILING MOUNTED
J	JUNCTION BOX, WALL MOUNTED
	EQUIPMENT CONNECTION, HARD WIRED

LIGHTING CONTROL PANELBOARDS

SYMBOL	DESCRIPTION
	FEEDTHROUGH LIGHTING CONTROL PANELBOARD, SURFACE MOUNTED

LOW VOLTAGE TRANSFORMERS

SYMBOL	DESCRIPTION
	LOW VOLTAGE DRY-TYPE DISTRIBUTION TRANSFORMER, FLOOR MOUNTED (SEE E4 SERIES TRANSFORMER SCHEDULE)

PANELBOARDS

SYMBOL	DESCRIPTION
	480Y/277V PANELBOARD, SURFACE MOUNTED (SEE E7 SERIES FOR PANEL SCHEDULES)
	208Y/120V PANELBOARD, SURFACE MOUNTED (SEE E7 SERIES FOR PANEL SCHEDULES)

INTERIOR & EXTERIOR LIGHTING

SYMBOL	DESCRIPTION
	LED DOWNLIGHT, ON NORMAL POWER/ EMERGENCY
	2x2 LED LIGHTING FIXTURE, ON NORMAL POWER/ EMERGENCY
	INDUSTRIAL STRIP FIXTURES
	LED PENDANT LINEAR STRIP LIGHTING FIXTURES
	RECESSED LINEAR STRIP LIGHTING FIXTURES
	OUTDOOR IN-GRADE MONUMENT SIGN UPLIGHT
	FLAGPOLE UPLIGHT
	BOLLARDS
	BOLLARDS WITH RECEPTACLE
	OUTDOOR SINGLE/DOUBLE HEAD POLE-MOUNTED LED
	EXIT LIGHT, SINGLE/DOUBLE FACE, CEILING MOUNTED WITH ARROWS AS INDICATED IN DRAWINGS
	EXIT LIGHT, WALL MOUNTED, SINGLE/DOUBLE FACE WITH ARROWS AS INDICATED IN DRAWINGS
OS	OCCUPANCY SENSOR - CEILING MOUNT
PC	DAYLIGHT PHOTOCELL SENSOR - CEILING MOUNT
	DEMOLISHED LIGHT FIXTURE (REPRESENTED BY DASHED OUTLINE)

FIRE ALARM SYSTEMS

SYMBOL	DESCRIPTION
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
AV	SPEAKER-STROBE AUDIO/VISUAL DEVICE, CEILING MOUNTED
AV	SPEAKER-STROBE AUDIO/VISUAL DEVICE, WALL MOUNTED
V	VISUAL DEVICE, CEILING MOUNTED
V	VISUAL DEVICE, WALL MOUNTED
	EXTERNAL HORN, WEATHERPROOF
F	MANUAL PULL STATION WITH PRE ALARM COVER, MOUNTED 48" AFF
SD	SMOKE DETECTOR
SD	SMOKE DETECTOR, DUCT MOUNTED
M	MAGNETIC DOOR HOLDER RELAY
RI	REMOTE STATUS INDICATOR
FSD	FIRE SMOKE DAMPER
HD	HEAT DETECTOR
TS	TAMPER SWITCH (FURN. BY DIV. 21)
FS	FLOW SWITCH (FURN. BY DIV. 21)
KB	KNOX BOX
DH	DOOR HOLDER

SYMBOL / DESCRIPTION

RACEWAYS

SYMBOL	DESCRIPTION
PANEL-2,4,6	BRANCH CIRCUIT HOMERUN, WITH PANEL AND BREAKER POSITION INDICATED. SMALL TICK(S) = PHASE CONDUCTORS, LARGE TICK = NEUTRAL CONDUCTOR AND LARGE TICK WITH CIRCLE = GROUND CONDUCTOR.

WIRING DEVICES (26 27 26)

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED AT 18-INCHES ABOVE FINISHED FLOOR)
	DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED AT 18-INCHES ABOVE FINISHED FLOOR)
USB	DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED 18" AFF, USB TYPE RECEPTACLE WITH USB PORTS)
C	DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED 18" AFF, COMPUTER)
+70	DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED AT 70" A.F.F. UNLESS NOTED OTHERWISE)
AC	DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (AC = ABOVE COUNTER TOP)
AC	GFCI, DUPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (AC = ABOVE COUNTER TOP)
WP	GFCI, DUPLEX RECEPTACLE - 20A, 125V, 3W, NEMA 5-20R (WP = NEMA 3R WHILE IN USE)
L5-20R/WP	SPECIAL PURPOSE RECEPTACLE - 20A, 120V, 3W, NEMA L5-20R, GFCI (WP = NEMA 3R WHILE IN USE)
	QUADRAPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED 18" AFF)
GFCI/AC	GFCI, QUADRAPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (AC = ABOVE COUNTER TOP)
C	QUADRAPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED 18" AFF, COMPUTER)
+26, C	QUADRAPLEX RECEPTACLE - 20A, 120V, 3W, NEMA 5-20R (MOUNTED 26" AFF, COMPUTER)
	FLOOR BOX - DUPLEX RECEPTACLE
A	FLOOR BOX - QUAD RECEPTACLE
J	JUNCTION BOX, CEILING MOUNTED
J	JUNCTION BOX, WALL MOUNTED

SWITCH DEVICES

SYMBOL	DESCRIPTION
S_a	SINGLE POLE, SINGLE THROW TOGGLE SWITCH (WITH SWITCHLEG "A" INDICATED)
S_{2b}	DOUBLE POLE, SINGLE THROW TOGGLE SWITCH (WITH SWITCHLEG "B" INDICATED)
S_{3c}	THREE-WAY - SINGLE POLE, DOUBLE THROW TOGGLE SWITCH (WITH SWITCHLEG "C" INDICATED)
S_{4d}	FOUR-WAY - DOUBLE POLE, DOUBLE THROW TOGGLE SWITCH (WITH SWITCHLEG "D" INDICATED)
S_K	SINGLE POLE, SINGLE THROW KEY OPERATED TOGGLE SWITCH
S_{3K}	THREE-WAY - SINGLE POLE, DOUBLE THROW KEY OPERATED TOGGLE SWITCH
S_{WP}	SINGLE POLE, SINGLE THROW WEATHERPROOF TOGGLE SWITCH
S_{OS}	WALL MOUNTED OCCUPANCY SENSOR SWITCH (AS NOTED)
S_{PIR}	WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR SWITCH (AS NOTED)
S_{OR}	WALL MOUNTED LOW VOLTAGE OVERRIDE SWITCH FOR CORRIDOR LIGHTING.

ABBREVIATION	DESCRIPTION
A	AMPERE(S)
ABV	ABOVE
AC	ABOVE COUNTER
A/C	AIR CONDITIONING
AIC	AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
BC	BELOW COUNTER
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSE CIRCUIT TELEVISION
CKT	CIRCUIT
COND	CONDUCTOR
CPU	CENTRAL PROCESSING UNIT
DIA	DIAMETER
DIST	DISTRIBUTION
DN	DOWN
DWGS	DRAWINGS
EC	EMPTY CONDUIT
EDF	ELECTRIC DRINKING FOUNTAIN
EF	EXHAUST FAN
EMT	ELEC. METALLIC TUBING
EQMT	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST

ABBREVIATION	DESCRIPTION
F/A	FIRE ALARM
FC	FOOT CANDLES
FCU	FAN COIL UNIT
FLEX	FLEXIBLE METAL CONDUIT
FN	FULL NEUTRAL
FT	FEET, FOOT
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSE POWER
HOA	HAND OFF AUTOMATIC
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HZ	HERTZ
IC	INTERCOM
ID	INSIDE DIAMETER
IMC	INTERMEDIATE STEEL CONDUIT
IN	INCHES
IG	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAC	KILOVOLT AMPERE CAPACITIVE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR

ABBREVIATION	DESCRIPTION
LB	POUND
M	MANHOLE
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MH	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTG	MOUNTING
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	NON FUSED
NO	NORMALLY OPEN
N.T.S.	NOT-TO-SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PBX	PRIVATE BUILDING EXCHANGE
PC	PULL CHAIN
PEC	PHOTO CELL
PNL	PANELBOARD
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE CONDUIT
PWR	POWER
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
SC	SPLIT CIRCUIT
SN	SOLID NEUTRAL
SQFT	SQUARE FEET,FOOT
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TELE	TELEPHONE
TSTAT	THERMOSTAT
TV	TELEVISION
TYP.	TYPICAL
UH	UNIT HEATER
V	VOLT(S)
WP	WEATHERPROOF
XFMR	TRANSFORMER
XPD	TRANSPONDER
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE

APPLICABLE CODES:

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):
- 70-2020 - NATIONAL ELECTRIC CODE (NEC)
- 70E-2018 - STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE
- 72-2019 - NATIONAL FIRE ALARM AND SIGNALING CODE
- 101-2021 - LIFE SAFETY CODE

INTERNATIONAL CODE COUNCIL (ICC):
- INTERNATIONAL BUILDING CODE (IBC)-2021
- INTERNATIONAL FIRE CODE (IFC)-2021
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC)-2021

GENERAL NOTES

A. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND REVIEW ALL RELATED DRAWINGS AND SPECIFICATIONS PRIOR TO BID.

B. THE DRAWINGS ARE DIAGRAMMATICAL. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND DETERMINE CONDUIT ROUTING AND EXACT LOCATIONS OF EQUIPMENT AND DEVICES. NOTIFY THE ARCHITECT/ENGINEER IF THE APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

D. PROVIDE LISTED FIRE-STOP AND CAULKING TO MAINTAIN INTEGRITY OF RATED WALLS AT ALL RACEWAY AND CABLE TRAY PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF RATED WALLS.

E. CONTRACTOR SHALL GROUND CABLE TRAY TO BUILDING GROUNDING SYSTEM. EACH SECTION OF THE CABLE TRAY SHALL BE BONDED TOGETHER WITH A GROUNDING JUMPER. CONDUIT TERMINATING AT THE CABLE TRAY SHALL BE BONDED AT THAT LOCATION. REFER TO SPECIAL SYSTEMS DRAWINGS FOR CABLE TRAY LOCATIONS.

F. LOCATIONS OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITY.

G. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. ALL WORK SHALL MATCH THE EXISTING BUILDING'S ELECTRICAL INSTALLATION. ALL SYSTEMS SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

H. SUBMIT COORDINATION STUDY AND SHORT CIRCUIT ANALYSIS ALONG WITH SUBMITTAL REVIEW OF PRODUCT INFORMATION PER SPECIFICATION SECTION 260573.

I. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW ELECTRICAL PANEL. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER, DEVICES SERVED, AND LOCATION OF DEVICES BY ROOM NUMBER. FILE COPY OF DIRECTORIES WITH THE OWNER'S REPRESENTATIVE WHEN WORK IS COMPLETED, AND PROVIDE COPIES WITH THE OWNER'S MANUALS.

J. INDICATED SPARE AND/OR SPACES IN ALL EQUIPMENT ON THE ELECTRICAL ONE-LINE DIAGRAM AND IN THE PANEL SCHEDULES ARE THE MINIMUM NUMBER REQUIRED FOR THIS PROJECT.

K. PROVIDE 3-1/2" MIN. HIGH CONCRETE HOUSEKEEPING PADS, EXTENDING 3" MIN. BEYOND "FOOTPRINT" FOR SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS AND FLOOR-MOUNTED PANELS/PANELBOARDS.

L. ALL CONNECTIONS TO MOTORS, OR OTHER DEVICES SUBJECT TO VIBRATION SHALL BE MADE USING A MINIMUM OF 12" LENGTH OF LIQUID TIGHT FLEXIBLE METALLIC CONDUIT. PROVIDE CONTINUOUS SEPARATE GROUND WIRE THROUGH ALL FLEXIBLE METALLIC CONDUIT CONNECTIONS.

M. PROVIDE UL, CLASS A GROUND FAULT INTERRUPTER CIRCUIT PROTECTIVE DEVICES ON ALL CONSTRUCTION RECEPTACLE CIRCUITS, OUTSIDE RECEPTACLE CIRCUITS, BATH OR TOILET ROOM RECEPTACLE CIRCUITS AND ON ALL OTHER CIRCUITS REQUIRED OR RECOMMENDED IN THE NATIONAL ELECTRICAL CODE.

N. IDENTIFY PANEL AND CIRCUIT NUMBER FOR ALL INSTALLED ELECTRICAL DEVICES ON THE OUTSIDE OF THE JUNCTION BOX, ON CONDUIT AT PANELBOARDS, AND ON FACEPLATE OF WIRING DEVICES, I.E. RECEPTACLES AND SWITCHES.

O. REFER TO TECHNOLOGY DRAWINGS FOR CONDUIT ROUTING AND INSTALLATION REQUIREMENTS OF PAIRED POWER/DATA JUNCTION BOXES FOR PROPER COORDINATION.

LIGHTING GENERAL NOTES

A. PROVIDE UNSWITCHED CONDUCTORS IN CIRCUITS SERVING EGRESS LIGHTS AND EXIT SIGNS.

B. ELECTRICAL DRAWINGS INDICATE GENERAL LOCATIONS OF LIGHTING FIXTURES ONLY. FOR EXACT LOCATIONS AND SPACING, SEE ARCHITECTURAL DRAWINGS. IF CONTRACTOR DETERMINES THAT THERE IS A DIFFERENCE IN QUANTITY OF FIXTURES SHOWN ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS, HE SHALL USE THE HIGHER NUMBER OF THE TWO QUANTITIES FOR BIDDING AND THEN CONTACT THE DESIGN TEAM FOR FINAL RESOLUTION.

C. COORDINATE LIGHTING FIXTURE LOCATIONS IN MECHANICAL AND TELECOMMUNICATION EQUIPMENT ROOMS BASED ON ACTUAL EQUIPMENT LAYOUT. REVIEW LAYOUT WITH MECHANICAL AND LOW VOLTAGE CABLING CONTRACTORS PRIOR TO ROUGH-IN.

D. PROVIDE FIRE-RATED MATERIAL AROUND ALL PENETRATIONS CREATED BY CONDUITS, CABLE TRAYS, ETC. IN FIRE RATED PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS FOR DESIGNATED AREAS.

E. REFERENCE LUMINAIRE SCHEDULE FOR ADDITIONAL LUMINAIRE INFORMATION.

F. HATCHED REGIONS INDICATES DAYLIGHT ZONES. PHOTOCELLS ARE SHOWN ONLY WHERE REQUIRED BY THESE DAYLIGHT ZONES.

G. OCCUPANCY SWITCHES AND SENSORS SHALL BE OF DUAL TECHNOLOGY INFRARED/ULTRASONIC.

POWER GENERAL NOTES

A. REFERENCE EQUIPMENT CONNECTION SCHEDULE FOR REQUIREMENTS AND ADDITIONAL INFORMATION OF TAGGED EQUIPMENT SHOWN ON PLAN.

B. COORDINATE EXACT LOCATIONS OF MECHANICAL/PLUMBING EQUIPMENT WITH OTHER DISCIPLINES.

C. COORDINATE ALL RECEPTACLES LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS.

D. RECEPTACLES LOCATED WITHIN 6' OF ANY PLUMBING FIXTURE, AT BREAK ROOM COUNTERTOPS, WITHIN 6' OF EXTERIOR DOORS, AT THE EXTERIOR, OR OTHERWISE EXPOSED TO WATER SHALL BE TYPE GFCI.

E. ALL RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS NOTED OTHERWISE.

F. PROVIDE 120V CIRCUIT TO ALL FIRE/SMOKE DAMPERS. CONNECT NO MORE THAN FOUR(4) DAMPERS TO NEAREST 120V PANEL. DAMPERS ON DIFFERENT FLOORS SHALL NOT BE CONNECTED TOGETHER. DAMPER CONTROL SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES OF ALL FIRE/SMOKE DAMPERS.

G. PROVIDE 120V POWER FOR ALL ADA DOOR OPENINGS, DOOR OPERATORS, CARD READERS, MAG LOCKS, ELECTRIC STRIKES AND EMERGENCY PANIC DOORS. COORDINATE EXACT LOCATIONS, QUANTITIES AND ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL AND SECURITY DRAWINGS.

H. PROVIDE 120V POWER TO EACH HVAC DDC CONTROL PANEL. COORDINATE EXACT LOCATIONS AND QUANTITIES WITH MECHANICAL DRAWINGS.

I. COORDINATE DISCONNECT SWITCHES, VFDS AND STARTER LOCATIONS WITH EQUIPMENT INSTALLERS TO MAINTAIN PROPER MAINTENANCE AND CODE CLEARANCES.

J. PROVIDE 120V POWER TO MOTORIZED DAMPERS, AND MOTORIZED VALVES, INCLUDING OTHER HVAC ACCESSORIES NEEDING POWER SUPPLY. CONNECT TO A 120V RECEPTACLE CIRCUIT NEAREST TO THE HVAC DAMPERS, VALVE OR ACCESSORY. THE CONTRACTOR SHALL NOT EXCEED THE BRANCH CIRCUIT RATING OF 1200 VA PER CIRCUIT WHEN CONNECTING TO THE NEAREST 20A BRANCH CIRCUIT. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL DRAWINGS AND FIELD VERIFY THE LOCATIONS WITH THE INSTALLER BEFORE BEGINNING ANY INSTALLATION.

FIRE ALARM GENERAL NOTES

A. PROVIDE A COMPLETE, FULLY FUNCTIONAL, FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72-2019, NFPA 101, IFC, AND ALL CITY OF AUSTIN ORDINANCES. FIRE ALARM SHALL INCLUDE DEVICES AND POWER REQUIRED TO INTERFACE WITH MAGNETIC LOCKS FOR DOOR HOLDERS, AND ANY MECHANICAL EQUIPMENT INTERFACE.

B. FIRE ALARM CONTRACTOR SHALL PROVIDE DUCT DETECTORS AT ALL FIRE SMOKE DAMPERS AS REQUIRED BY CODE. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION AND QUANTITY OF FIRE SMOKE DAMPERS.

C. PROVIDE ALL EMPTY CONDUITS WITH PULLSTRINGS.

D. THE FLOOR PLAN DRAWING INCLUDES FIRE ALARM DEVICES, MANUAL PULL STATIONS, DUCT SMOKE DETECTORS, SMOKE DETECTORS, SIGNALING EQUIPMENT, CONTROLS, AND AUDIO-VISUAL NOTIFICATION APPLIANCES.

E. THE FIRE ALARM SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS IS SCHEMATIC IN NATURE AND INDICATES THE AREAS TO BE COVERED AND THE TYPES OF DEVICES TO BE UTILIZED. THE FINAL DESIGN OF THE SYSTEM SHALL BE PERFORMED BY A FIRE ALARM SUPERINTENDENT, LICENSED BY THE TEXAS STATE FIRE MARSHALL'S OFFICE AND SHALL MEET THE REQUIREMENTS OF GOVERNING CODES AND THE AUTHORITY HAVING JURISDICTION. THE ACTUAL QUANTITIES AND EXACT PLACEMENT OF DEVICES SHALL BE DETERMINED BY THE GOVERNING CODES AND THE DEVICE RATINGS BEING FURNISHED BY THE FIRE ALARM SYSTEM VENDOR/INSTALLER. THIS DESIGN IS FOR PERMIT ONLY.

F. ALL FIRE ALARM SYSTEM WIRING FOR ALARM AND SIGNALING DEVICES SHALL BE PROVIDED IN RACEWAY IN AREAS WHERE WIRING IS NOT CONCEALED BY CEILING.

G. COORDINATE ALL FIRE ALARM WORK WITH THE FIRE ALARM SYSTEM MANUFACTURER INSTALLER. PROVIDE ADDITIONAL POWER SUPPLY AND BATTERY POWER PER NFPA 72 AND SUBMIT APPROVED FIRE ALARM SHOP DRAWINGS. REFERENCE SPECIFICATIONS FOR ALL REQUIREMENTS.

H. THE FIRE ALARM PANEL SHALL BE PROVIDED WITH ONE YEAR OF CENTRAL STATION REPORTING SERVICE PER NFPA 72 SECTION 20.8.5.6 FOR THE FIRE SPRINKLER SYSTEM.

I. REFER TO THE FIRE ALARM SPECIFICATIONS SECTION 28 31 00 FOR COMPLETE SPECIFICATIONS AND REQUIREMENTS.

J. FLOW AND TAMPER SWITCH DEVICES SHALL BE PROVIDED BY DIV. 22 AND BE PROVIDED WITH FIRE ALARM SYSTEM MONITOR MODULES TO INTERFACE WITH THE ADDRESSABLE FIRE ALARM SYSTEM. PROVIDE FIRE ALARM CONNECTIONS FOR DEVICES.

K. PROVIDE THE REQUIRED TESTING FOR FIRE/SMOKE DAMPERS AS REQUIRED PER NFPA 80, NFPA 90A, AND NFPA 105 INCLUDING THE LOCAL AUTHORITY HAVING JURISDICTION.

FIRE ALARM DESIGN REQUIREMENTS:
SMOKE DETECTORS:
i) UNLESS SPECIFIED BY THE AHJ SHALL BE PHOTOELECTRIC.
ii) SHALL BE INSTALLED IN THE FOLLOWING LOCATION:
  a. ALL CORRIDORS AND COMMON USE SPACES SUCH AS LOBBIES, RECEPTION AREAS, ETC.
  b. INTERMEDIATE OR REMOTE AREAS WHERE SMOKE WOULD NEED TO PENETRATE MULTIPLE DOORS TO REACH A SMOKE DETECTOR IN A CORRIDOR OR COMMON AREA.
  c. ELECTRICAL ROOMS
  d. STORAGE ROOMS.
iii) SMOKE DETECTORS SHALL NOT BE INSTALLED IN:
  a. CUSTODIAL CLOSETS
  b. NON-CONDITIONED PUMP ROOMS.

HEAT DETECTORS:
i) SHALL BE INSTALLED IN BREAK ROOMS

MANUAL PULL STATIONS:
i) SHALL BE INSTALLED WITHIN (5) FEET OF EACH EXIT DOORWAY AS SHOWN IN PLANS.

AUDIO/VISUAL APPLIANCE:
i) PROVIDE SYNCHRONIZED VISUAL DEVICES WHERE LOCATED IN A COMMON ROOM WITH TWO(2) OR MORE DEVICES.

DUCT SMOKE DETECTORS:
REFER TO MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITY

ELECTRICAL DEMOLITION GENERAL NOTES

A. CONDUCT ALL DEMOLITION WORK IN SUCH MANNER TO MAINTAIN A SAFE WORK ENVIRONMENT AND IN ACCORDANCE WITH APPLICABLE SAFETY RULES AND PROCEDURES WITHIN NEC, NESC, NECA, AND OSHA REQUIREMENTS.

B. CONTRACTOR SHALL REQUEST AND REVIEW ANY HAZARDOUS MATERIALS SURVEYS FROM THE OWNER'S REPRESENTATIVE. OBSERVE RECOMMENDED PRECAUTIONS AND VERIFY THE STATUS OF ANY REMEDIAL WORK RECOMMENDED OR NOTED WITHIN THE HAZARDOUS MATERIAL SURVEY. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY HAZARDOUS MATERIALS ARE SUSPECTED OR OBSERVED DURING THE COURSE OF EXECUTING THIS CONTRACT.

C. SURVEY AREAS OF THE FACILITY SCHEDULED FOR RENOVATION OR PARTIAL DEMOLITION PRIOR TO ANY WORK BEING PERFORMED. SUBMIT A REPORT OF THIS PRE-WORK SURVEY DETAILING ANY UTILIZATION EQUIPMENT OR SYSTEMS THAT ARE NOT IN GOOD WORKING ORDER IN ADVANCE OF ANY DEMOLITION WORK AND REVIEW WITH THE OWNER'S REPRESENTATIVE.

D. RESTORE CIRCUITS, UTILIZATION EQUIPMENT, AND SYSTEMS AFFECTED BY SELECTIVE DEMOLITION TO THE CONDITION NOTED IN THE PRE-WORK SURVEY REPORT. ELECTRICAL CIRCUITS WITH A PORTION OF THE LOAD REMOVED SHALL HAVE THE REMOVED LOADS ASSOCIATED CIRCUITRY TERMINATED IN SUCH A MANNER THAT THE REMAINING LOAD REMAINS FULLY OPERATIONAL.

E. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGED MATERIAL. REQUEST THAT THE OWNER PROVIDE DIRECTION ON DISPOSITION OF SALVAGED MATERIAL FIVE (5) WORKING DAYS PRIOR TO REMOVAL. IF SO DIRECTED BY THE OWNER, SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION AS DIRECTED. REMOVE AND DISPOSE ANY SALVAGED MATERIAL NOT RETAINED BY THE OWNER.

F. UNLESS OTHERWISE NOTED, DEMOLISH ELECTRICAL DEVICES, INCLUDING BUT NOT LIMITED TO: POWER AND DATA OUTLETS, WIRING, RACEWAYS, PANELBOARDS, LIGHTING DEVICES, EQUIPMENT CONTROL DEVICES, AND POWER CONNECTIONS TO HVAC AND PLUMBING EQUIPMENT SCHEDULED FOR DEMOLITION.

G. DRAWINGS INDICATE APPROXIMATE LOCATION AND QUANTITY OF PANELS, TRANSFORMERS, DISCONNECTS, ETC. TO BE REMOVED. VERIFY LOCATION AND QUANTITY OF ITEMS TO BE REMOVED. NO ALLOWANCE WILL BE MADE BECAUSE OF CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS.

H. EQUIPMENT, RECEPTACLES, LIGHTS, AND TELEPHONE OUTLETS, SCHEDULED FOR DEMOLITION SHALL HAVE THEIR ASSOCIATED CIRCUITRY REMOVED. ASSOCIATED CIRCUITRY IS DEFINED AS ALL WIRE, CONDUIT, J-BOXES, DEVICE BOXES, WIRING DEVICES, COVER PLATES, PROTECTIVE DEVICE, AND PANEL, ETC. ASSOCIATED WITH THE ITEM SCHEDULED FOR REMOVAL. CONDUIT FOR ITEMS SCHEDULED FOR REMOVAL AND IN INACCESSIBLE AREAS SHALL BE EMPTIED AND SEALED OR OTHERWISE TERMINATED IN A SAFE MANNER ACCEPTABLE TO THE OWNER.

I. DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH ADJACENT SURFACES. OPENINGS CREATED BY THE REMOVAL OF THESE ITEMS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.

J. REMOVE ABANDONED CONDUIT TO POINT OF CONCEALMENT BEHIND INACCESSIBLE SURFACES. ENTIRELY REMOVE ABANDONED WIRING.

K. PROVIDE BLANK COVERS AND PLATES AT UNUSED OPENINGS IN BOXES, RACEWAYS, AUXILIARY GUTTERS, CABINETS, EQUIPMENT CASES AND HOUSINGS SHALL BE CLOSED TO AFFORD PROTECTION SUBSTANTIALLY EQUIVALENT TO THE EQUIPMENT ENCLOSURE.

L. IF A CONDUIT RUN IS EXPOSED OR A SURFACE RACEWAY LEFT WITHOUT A MOUNTING SURFACE DUE TO REMOVAL OF A PARTITION, THE RACEWAY SHALL BE REROUTED AS ACCEPTABLE TO THE OWNER/ARCHITECT.

M. PROTECT ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES THAT ARE SCHEDULED TO BE RELOCATED. REPAIR, RESTORE, OR REPLACE ITEMS DAMAGED WHEN REMOVED TO THE APPROVAL OF THE OWNER. NOTIFY THE OWNER/ARCHITECT/ENGINEER OF ANY ELECTRICAL EQUIPMENT, OUTLETS AND/OR DEVICES WHICH ARE SCHEDULED TO BE RE-USED THAT ARE FOUND TO BE UNUSABLE.

N. CONTRACTOR SHALL UPDATE PANELBOARD DIRECTORIES AT EACH PANEL WHERE CIRCUIT MODIFICATIONS ARE MADE.

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STATE OF TEXAS
06/06/2022

CNG ENGINEERING

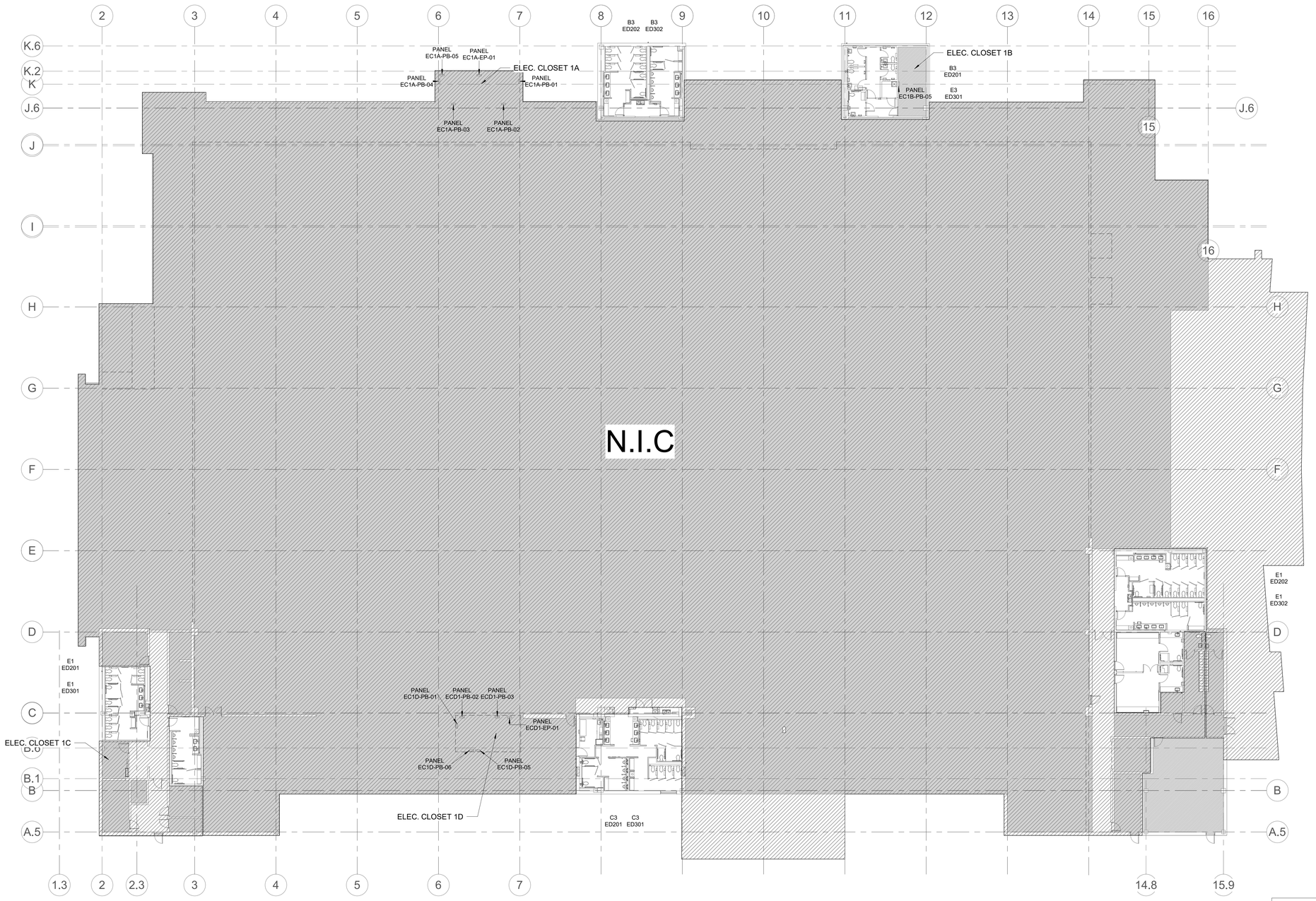
CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	JG
Checked	DD
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SHEET NO.
E000

6/6/2022 10:14:06 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Drawings\Revit\Central\0023-20 CoA PEC Renovations CNG_R19_central.rvt

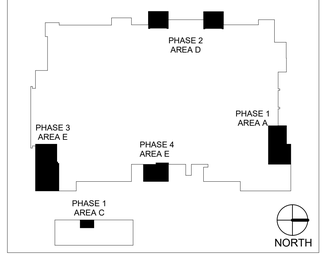


1 ED101 ELECTRICAL - LEVEL 1 - DEMO OVERALL

1/16" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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06/06/2022

CNGENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING
FIRE PROTECTION, CODE COMPLIANCE
SAN ANTONIO, TEXAS 78209
TBPE FIRM # F-14439
TBPLS FIRM # 10194004

CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	JG
Checked	DD
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE

LEVEL 1 - OVERALL DEMOLITION PLAN

SHEET NO.

ED101

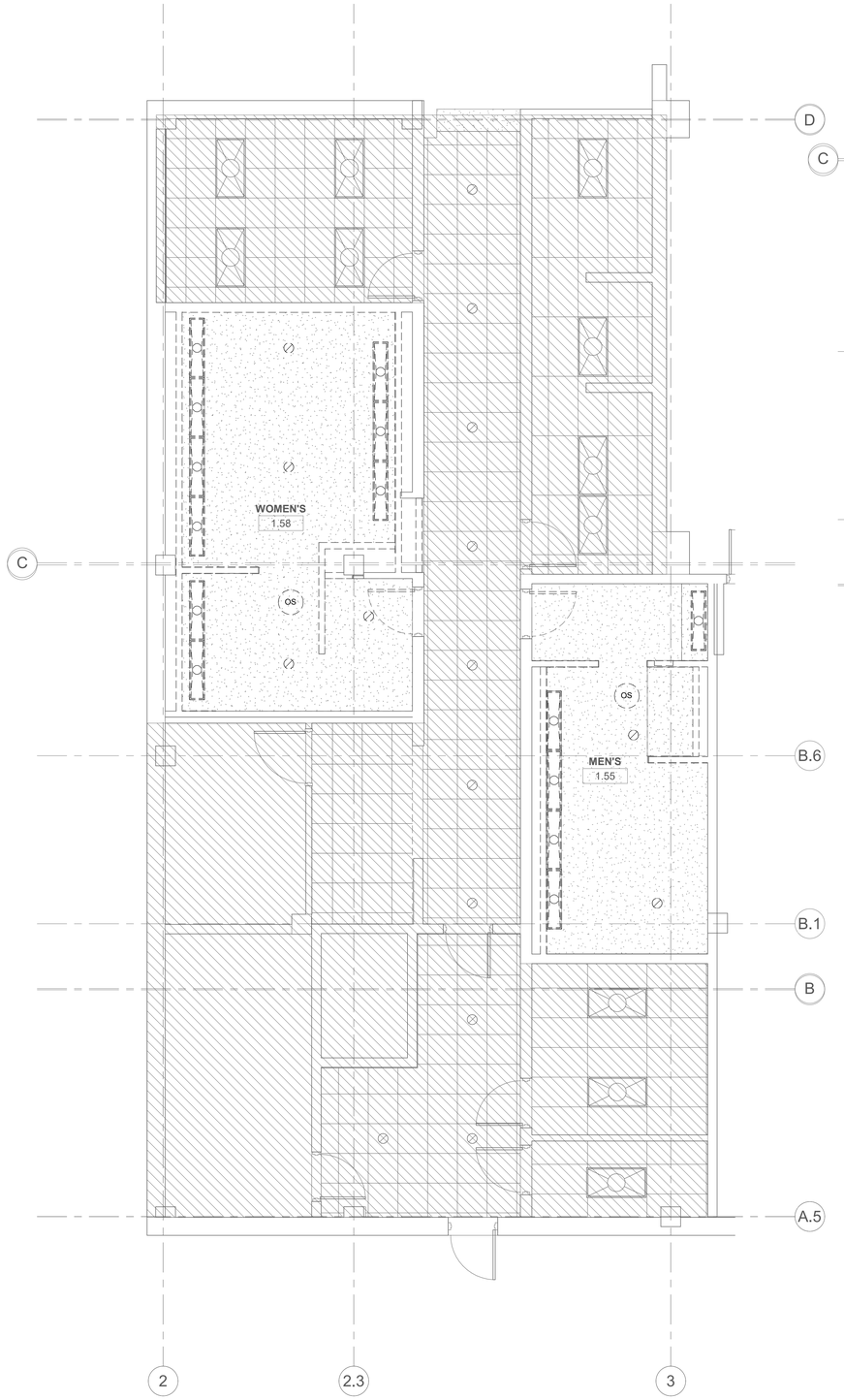
6/6/2022 10:14:46 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\CNG-Palmer-0023-20-DD-MEC_Renovations_CNG_R19_central.rvt

LIGHTING DEMOLITION NOTES

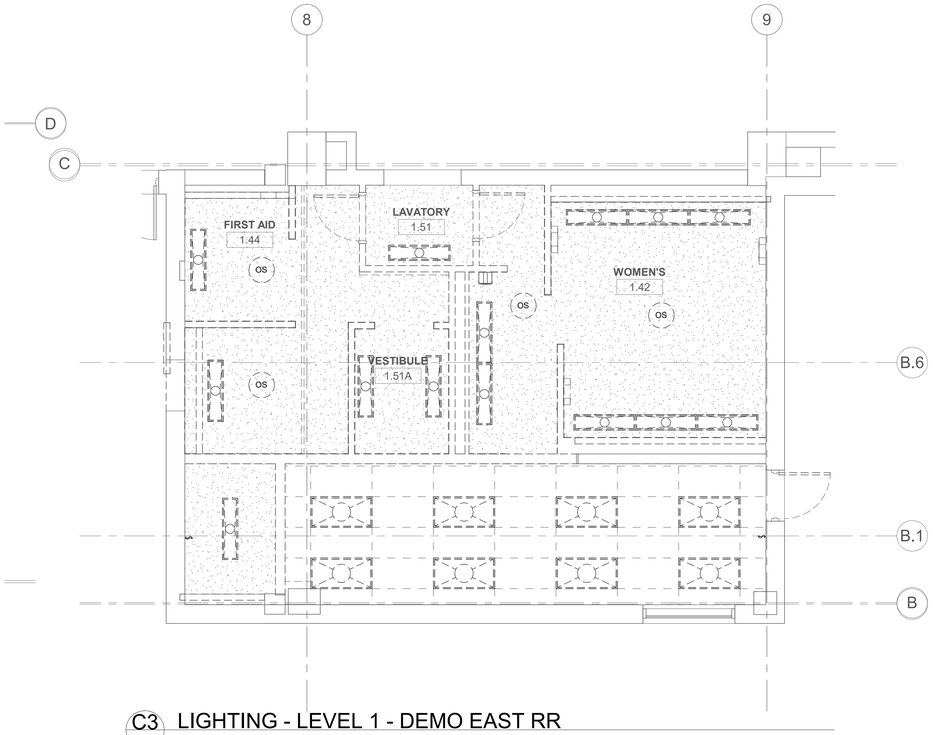
A. LIGHT FIXTURES IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. EXISTING ELECTRICAL FEEDS SHALL REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET.

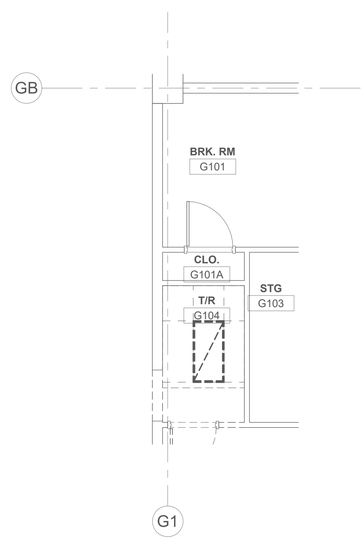
C. LIGHTING CONTROL DEVICES AND ASSOCIATED WIRING IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED.



E1 ED201 LIGHTING - LEVEL 1 - DEMO SOUTH RR
1/4" = 1'-0"
NORTH PLAN N.



C3 ED201 LIGHTING - LEVEL 1 - DEMO EAST RR
1/4" = 1'-0"
NORTH PLAN N.



E3 ED201 LIGHTING - LEVEL 1 - DEMO GARAGE RR
1/4" = 1'-0"
NORTH PLAN N.

KEY PLAN - LEVEL 1

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06/06/2022

CNG ENGINEERING
TBPE REGISTRATION NO. F-21291
TBPELS REGISTRATION NO. 10194224
CNG

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	AM/HG
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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - LIGHTING DEMOLITION PLAN

SHEET NO.
ED201

6/6/2022 10:14:48 AM
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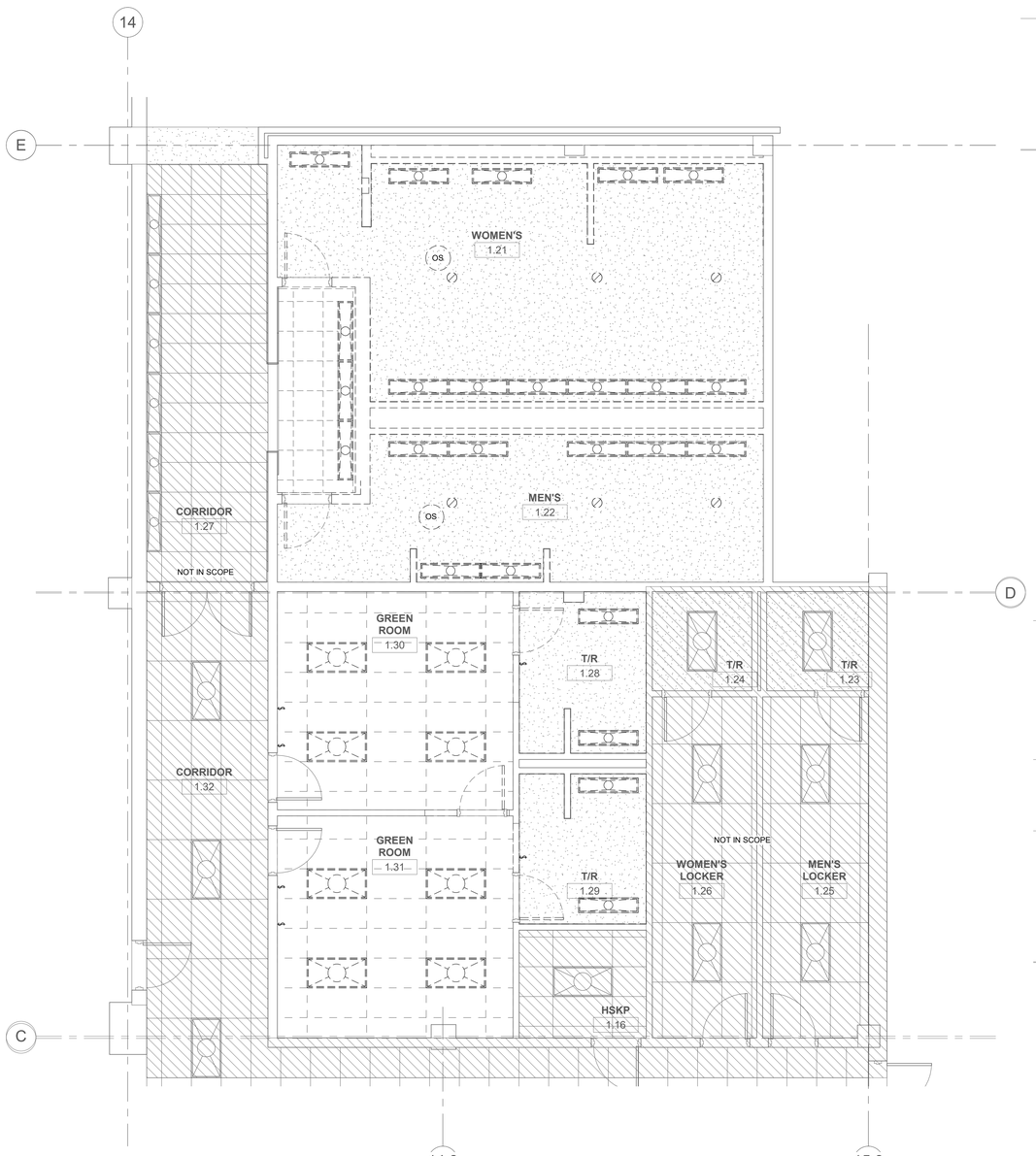
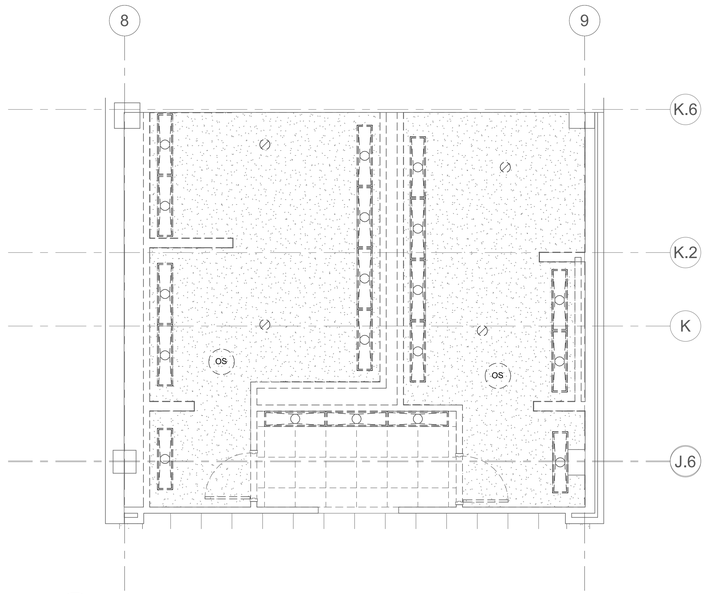


E1 ED202 LIGHTING - LEVEL 1 - DEMO NORTH RR AND GREEN ROOM

1/4" = 1'-0"

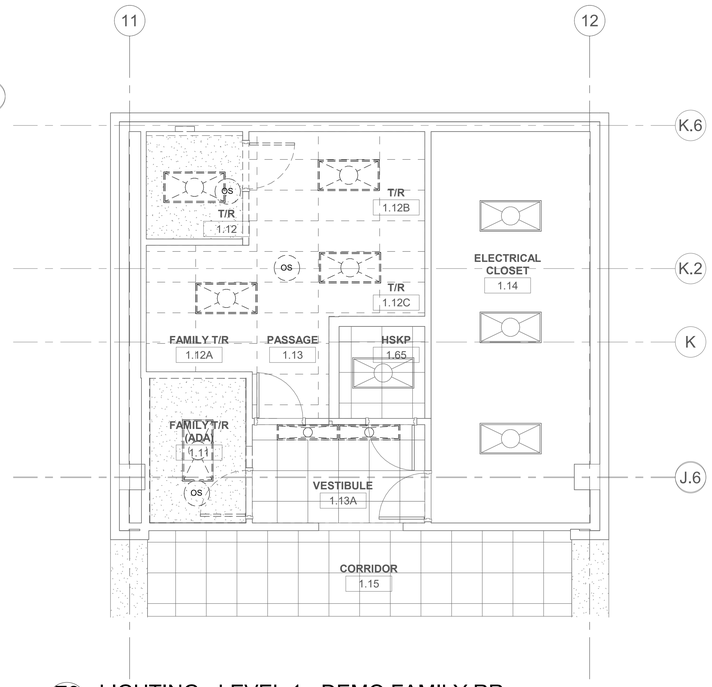
NORTH PLAN N.



B3 ED202 LIGHTING - LEVEL 1 - DEMO WEST RR

1/4" = 1'-0"

NORTH PLAN N.



E3 ED202 LIGHTING - LEVEL 1 - DEMO FAMILY RR

1/4" = 1'-0"

NORTH PLAN N.

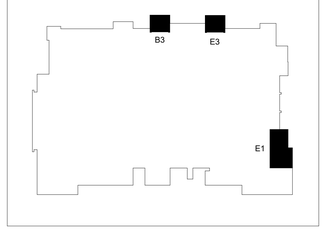
LIGHTING DEMOLITION NOTES

A. LIGHT FIXTURES IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. EXISTING ELECTRICAL FEEDS SHALL REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET.

C. LIGHTING CONTROL DEVICES AND ASSOCIATED WIRING IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED.

KEY PLAN - LEVEL 1



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CNG ENGINEERING
MECHANICAL ELECTRICAL PLUMBING
FIRE PROTECTION
TBPE FIRM # F-14756
TBPELS FIRM # 10018500

CITY OF AUSTIN
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PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - LIGHTING DEMOLITION PLAN

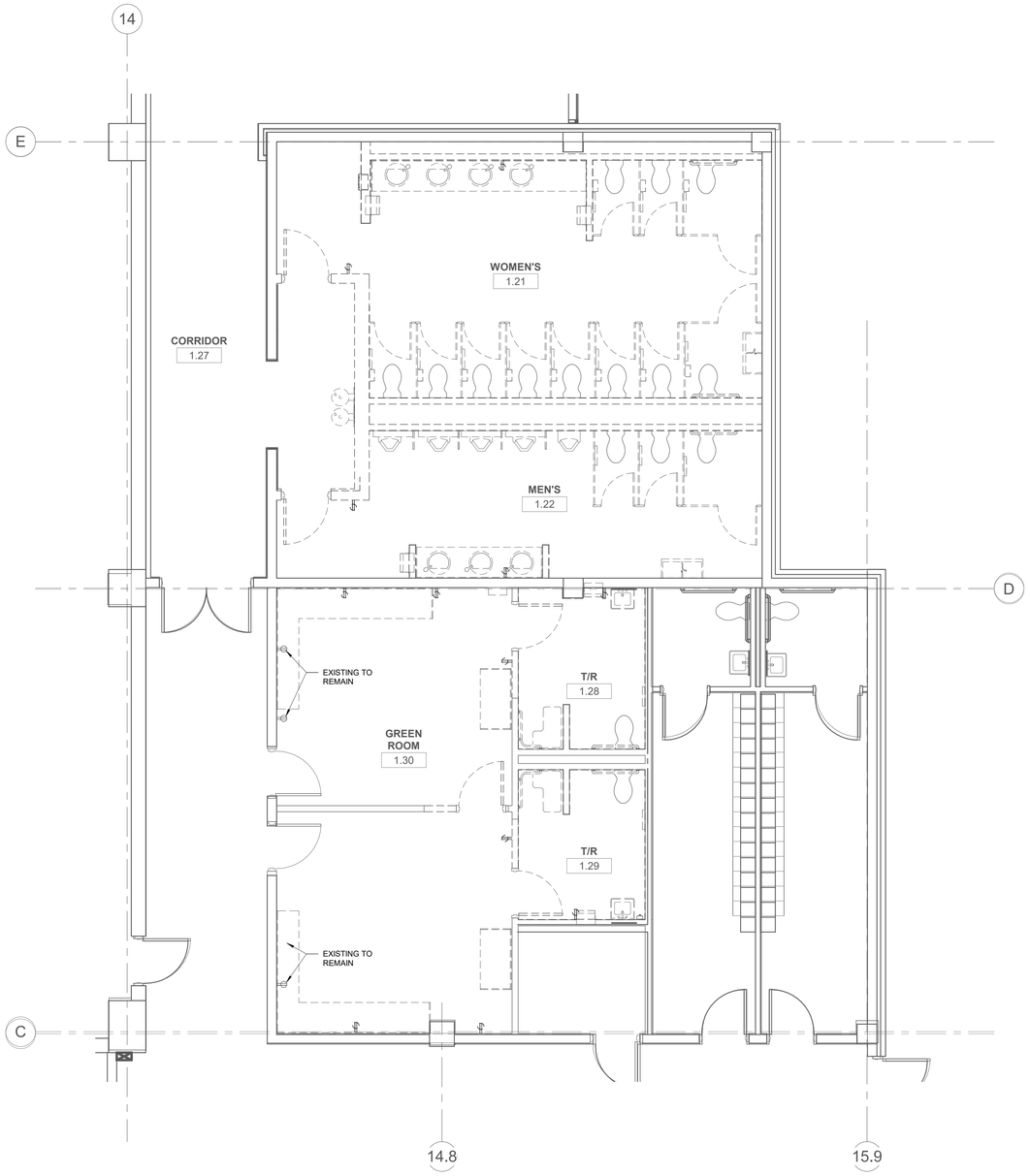
SHEET NO.
ED202

6/6/2022 10:14:49 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\20-0023-20 CoA PEC Plumbing and RR Renovations CNG_R19_central.rvt

POWER DEMOLITION NOTES

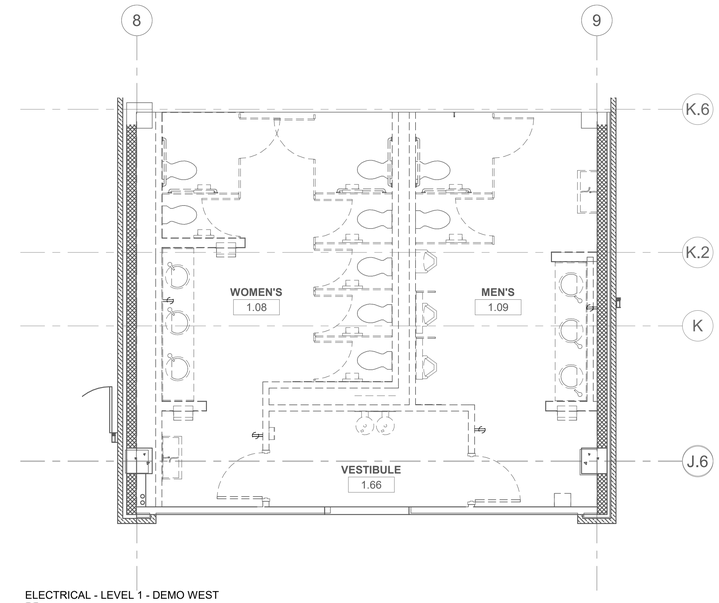
A. ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET E000.



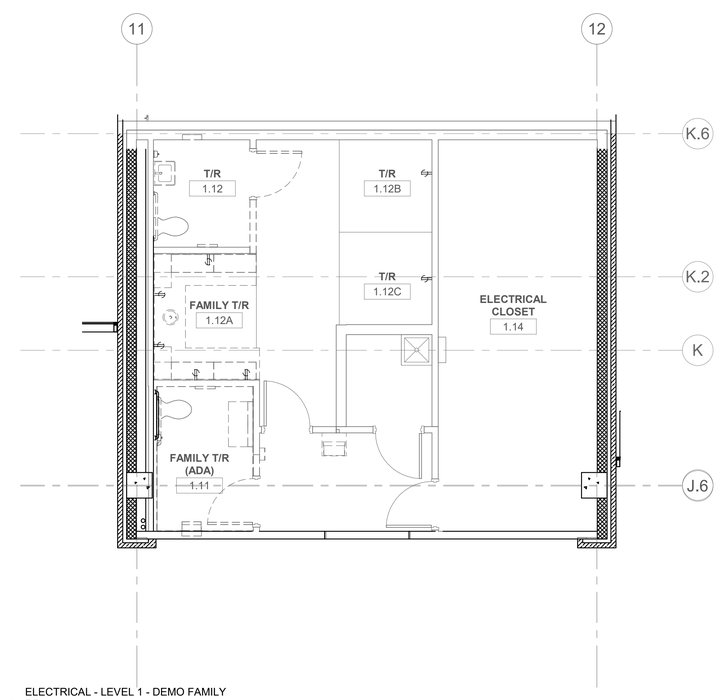
2 ELECTRICAL - LEVEL 1 - DEMO NORTH RR AND GREEN ROOM
1/4" = 1'-0"

NORTH PLAN N.



1 ELECTRICAL - LEVEL 1 - DEMO WEST RR
1/4" = 1'-0"

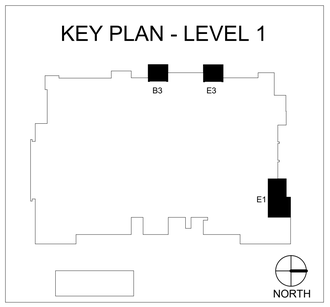
NORTH PLAN N.



3 ELECTRICAL - LEVEL 1 - DEMO FAMILY RR
1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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CNG ENGINEERING
TBPE REGISTRATION NO. F-21120
TBPLS REGISTRATION NO. 10194224
CNG

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - POWER DEMOLITION PLAN

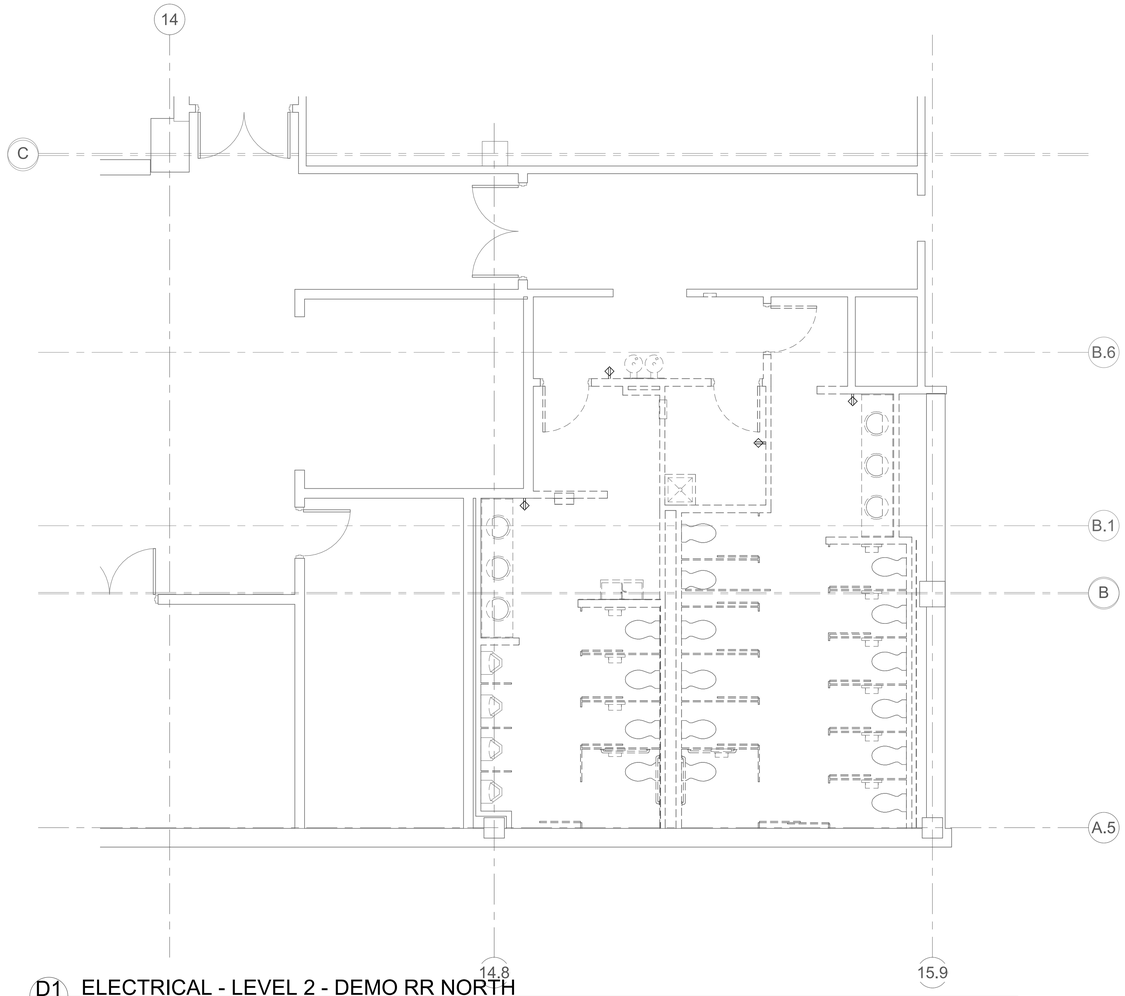
SHEET NO.
ED302

6/6/2022 10:14:56 AM
M:\2020\0023-20 CoA PEC Plumbing and ISR Upgrades\Revit\20027-0023-20 CoA-PEC Renovations CNG_R19_central.rvt

POWER DEMOLITION NOTES

A. ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

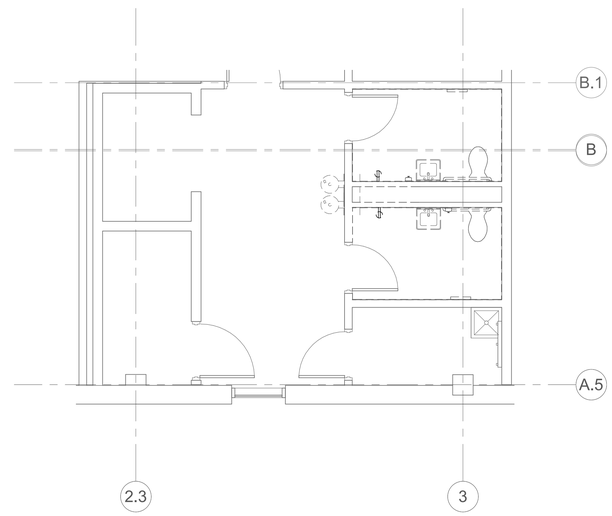
B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET E000.



D1 ED303 ELECTRICAL - LEVEL 2 - DEMO RR NORTH

1/4" = 1'-0"

NORTH PLAN N.

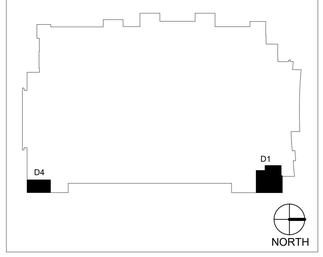


D4 ED303 ELECTRICAL - LEVEL 2 - DEMO RR SOUTH

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



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STATE OF TEXAS
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06/06/2022

CNGENGINEERING
TBPE FIRM F-14439
TBPLS FIRM 10194400

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 2 - POWER DEMOLITION PLAN

SHEET NO.
ED303

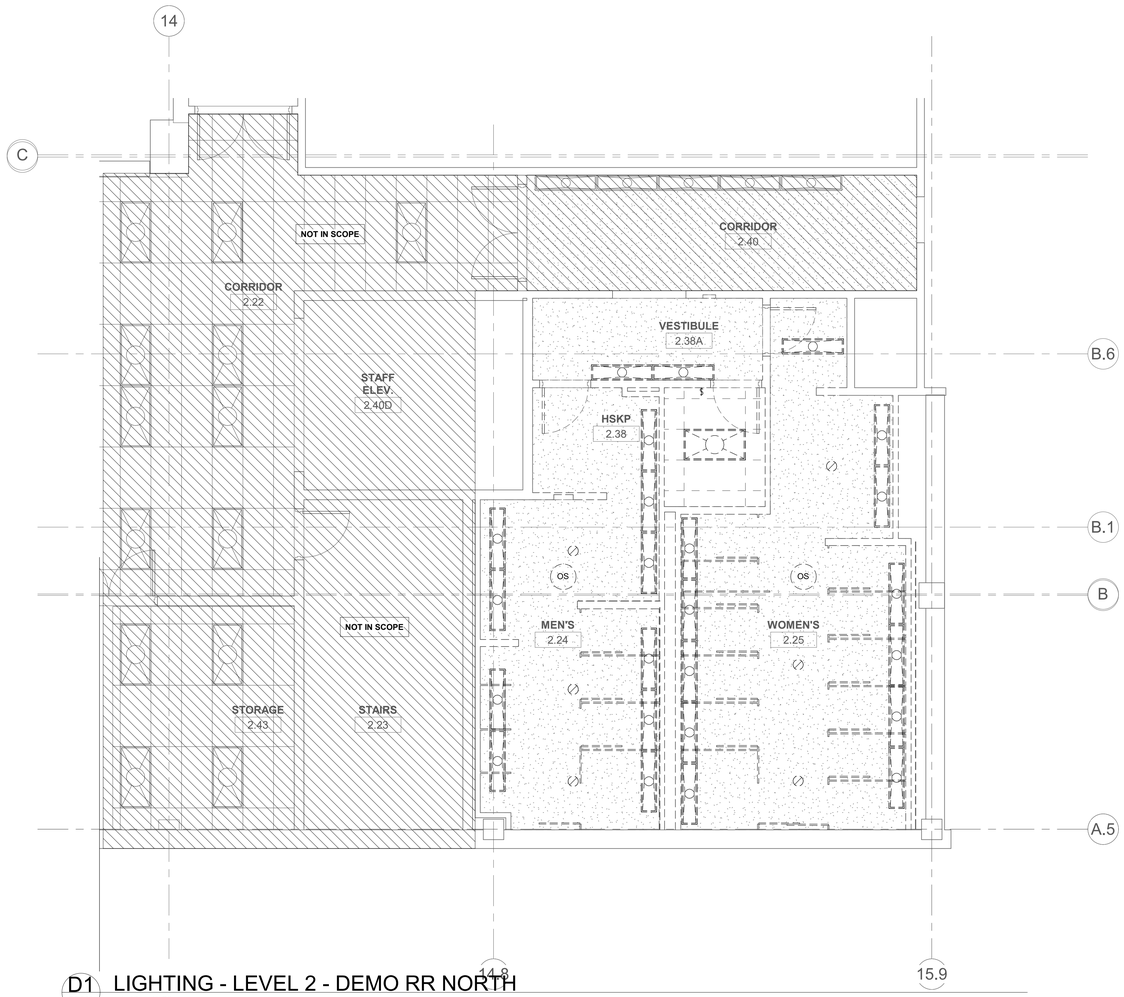
6/6/2022 10:14:57 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\CNG_Plumbing20-23 CoA-PEC Renovations CNG_R19_central.rvt

LIGHTING DEMOLITION NOTES

A. LIGHT FIXTURES IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. EXISTING ELECTRICAL FEEDS SHALL REMAIN. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET.

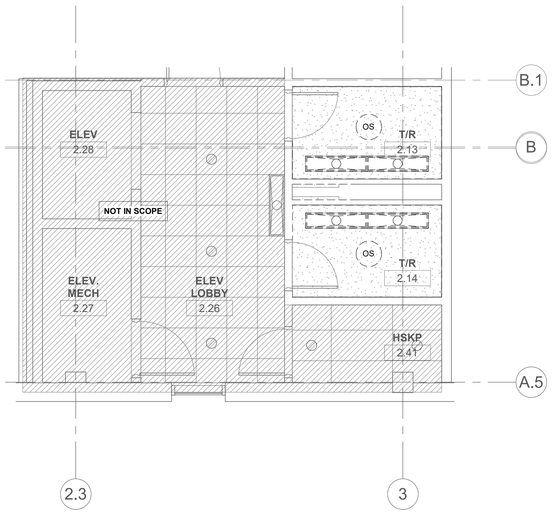
C. LIGHTING CONTROL DEVICES AND ASSOCIATED WIRING IN ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED.



D1 ED203 LIGHTING - LEVEL 2 - DEMO RR NORTH

1/4" = 1'-0"

NORTH PLAN N.

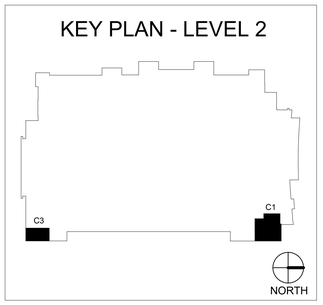


D4 ED203 LIGHTING - LEVEL 2 - DEMO RR SOUTH

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



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STATE OF TEXAS
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06/06/2022

CNGENGINEERING
MECHANICAL ELECTRICAL PLUMBING
FIRE ALARM/SYSTEMS
TEXAS REGISTERED ENGINEERS
TBPE FIRM # F-9746

CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE

LEVEL 2 - LIGHTING DEMOLITION PLAN

SHEET NO.

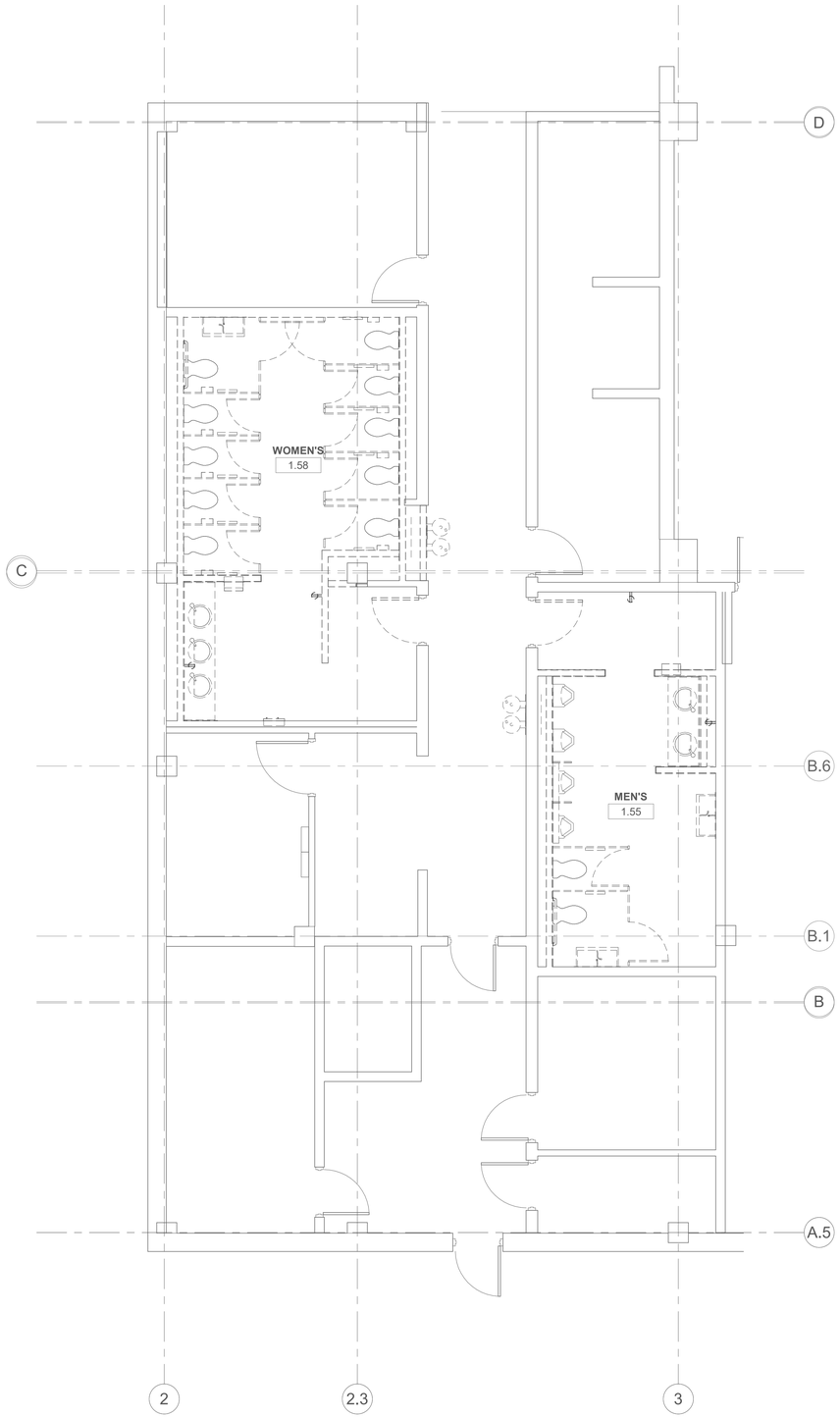
ED203

6/6/2022 10:14:51 AM
M:\2020\Marmon\20027-20 Cok PEC-Plumbing and RR
Users\dhernandez\Documents\20027-20-Plumbing-DCA-PEC
Renovations_CNG_R19_central.rvt

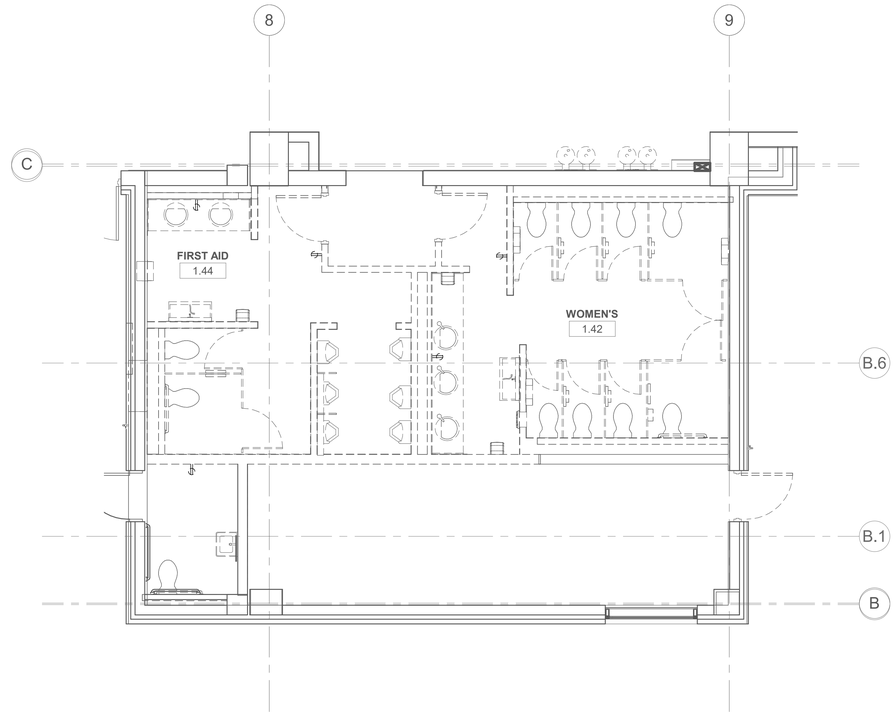
POWER DEMOLITION NOTES

A. ALL AREAS, EXCEPT AS NOTED, SHALL BE DEMOLISHED. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.

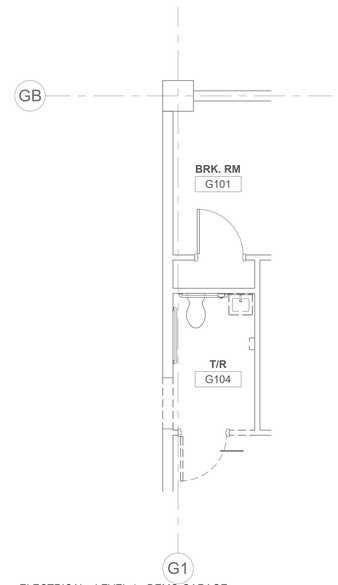
B. SEE DEMOLITION AND RENOVATION NOTES ON ELECTRICAL SYMBOLS AND ABBREVIATION SHEET E000.



4 ELECTRICAL - LEVEL 1 - DEMO SOUTH RR
1/4" = 1'-0"
NORTH PLAN N.

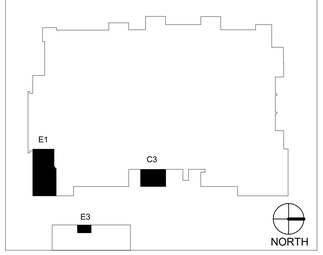


2 ELECTRICAL - LEVEL 1 - DEMO PLAN EAST
1/4" = 1'-0"
NORTH PLAN N.



1 ELECTRICAL - LEVEL 1 - DEMO GARAGE RR
1/4" = 1'-0"
NORTH PLAN N.

KEY PLAN - LEVEL 1



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STATE OF TEXAS
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PROFESSIONAL ENGINEER
06/06/2022

CNG ENGINEERING

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	AM/HG
Checked	DJ
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LEVEL 1 - POWER DEMOLITION PLAN

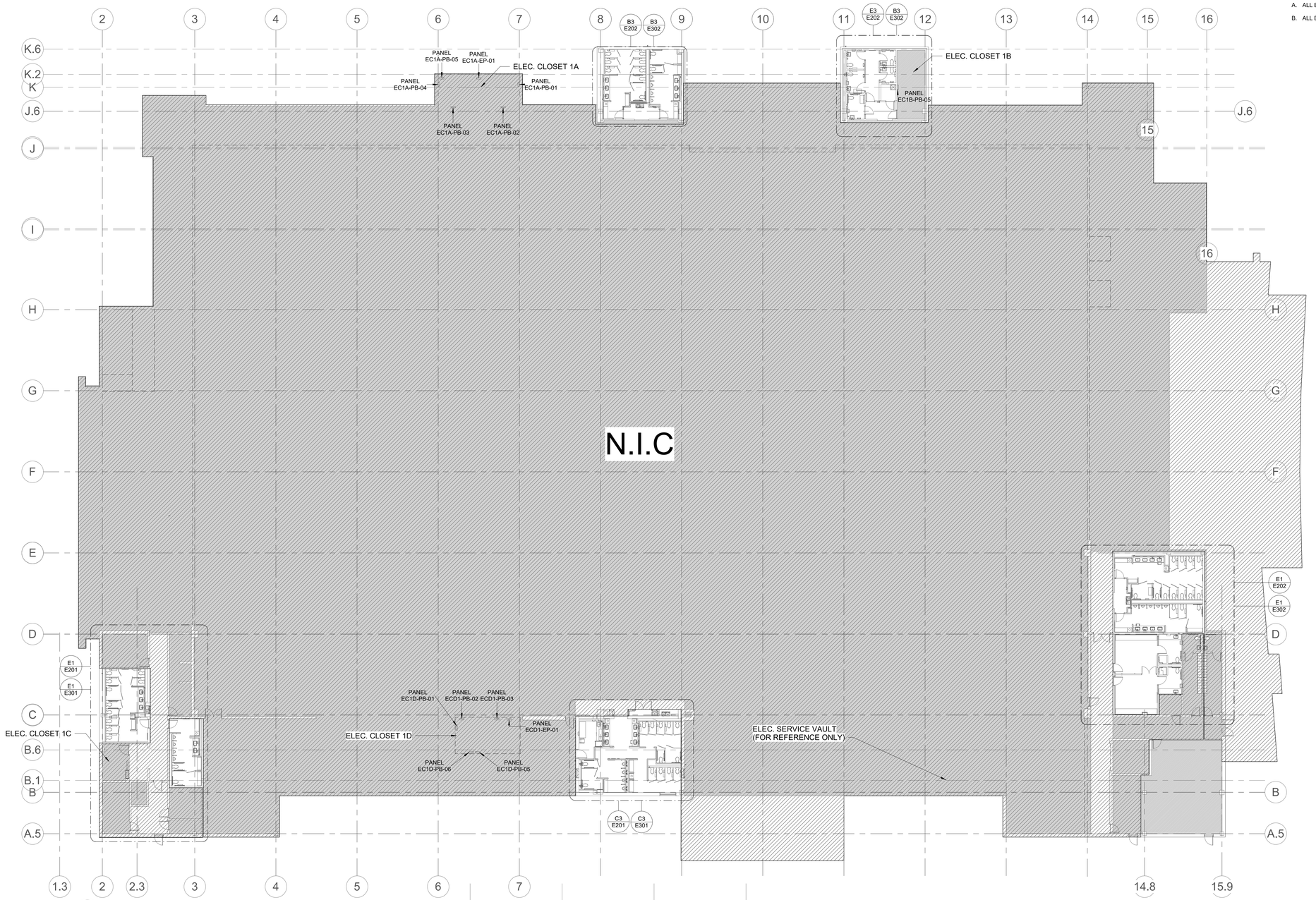
SHEET NO.
ED301

6/6/2022 10:14:53 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Drawings\Revit\Central\0023-20 CoA PEC Renovations CNG_R19_central.rvt

GENERAL NOTES

A. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

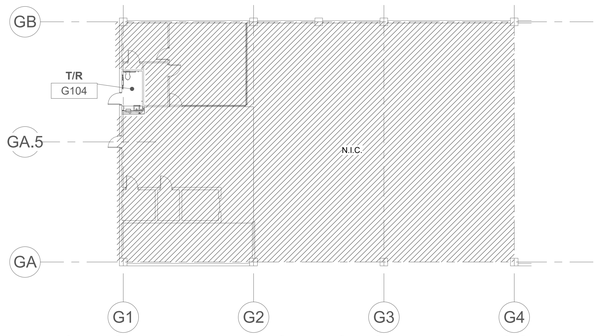
B. ALL EQUIPMENT IN HATCHING INDICATE EMERGENCY POWER.



D1 E100 ELECTRICAL - LEVEL 1 - OVERALL

1/16" = 1'-0"

NORTH PLAN N.

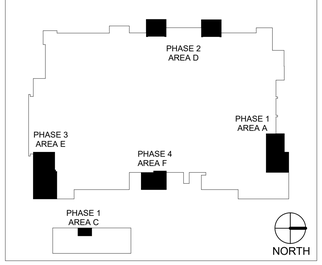


E2 E100 ELECTRICAL - LEVEL 1 - GARAGE OVERALL FLOOR PLAN

1/16" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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CNG ENGINEERING
MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, FIRE ALARM, TEXAS ACCESS, TELECOMMUNICATIONS, TEST PITS, SURVEYING

CITY OF AUSTIN

PALMER EVENTS CENTER

PLUMBING & RESTROOM UPGRADE REBID

900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE

LEVEL 1 - OVERALL ELECTRICAL PLAN

SHEET NO.

E100

6/6/2022 10:14:11 AM
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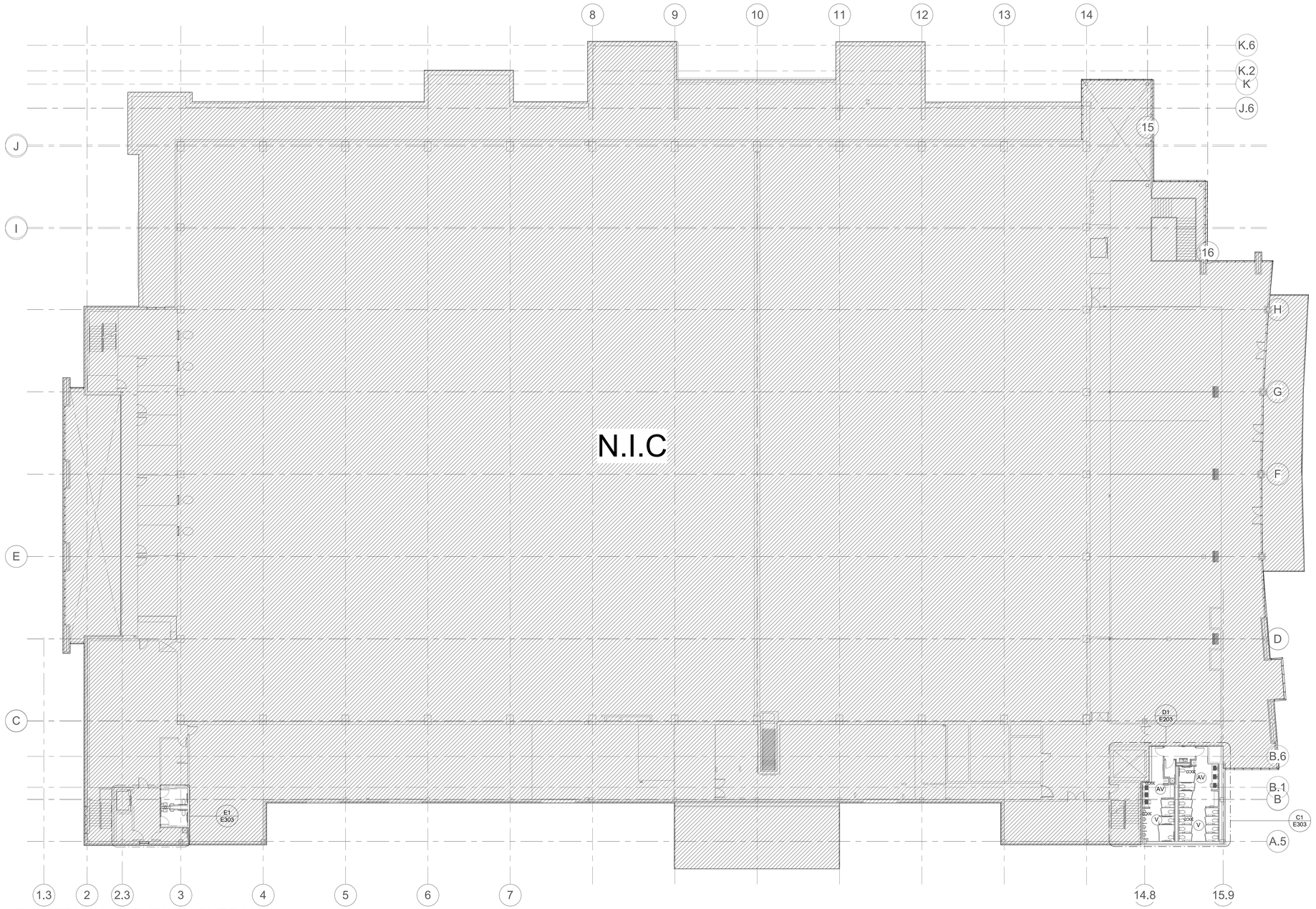
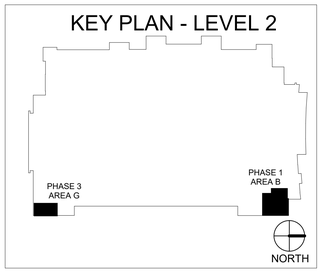


E1 ELECTRICAL - LEVEL 2 - OVERALL
E200
1/16" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



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06/06/2022

CNG ENGINEERING

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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SHEET TITLE
LEVEL 2 - OVERALL ELECTRICAL PLAN

SHEET NO.
E200

6/6/2022 10:14:15 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Drawings\Revit\Central\0023-20 CoA PEC Renovations CNG_R19_central.rvt

LIGHTING GENERAL NOTES

A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. CONTRACTOR SHALL SUBMIT FULLY COORDINATED SHOP DRAWINGS SHOWING ALL ELECTRICAL EQUIPMENT AND DEVICES FOR REVIEW BY THE DESIGN TEAM PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL PROPOSED EQUIPMENT LOCATIONS IN DRAWINGS.

D. ALL LIGHTING CONTROL DEVICES WITHIN A SPACE ARE TO CONTROL ALL LIGHT FIXTURES WITHIN THAT SPACE. COORDINATE LOCATIONS OF LIGHTING CONTROL DEVICES PRIOR TO ROUGH-IN. OCCUPANCY AUTOMATIC-OFF DELAY TO BE SET TO 30 MINUTES MINIMUM.

E. REFER TO LUMINAIRE SCHEDULE ON E501 FOR FIXTURE LIST, DESCRIPTION, AND MOUNTING.

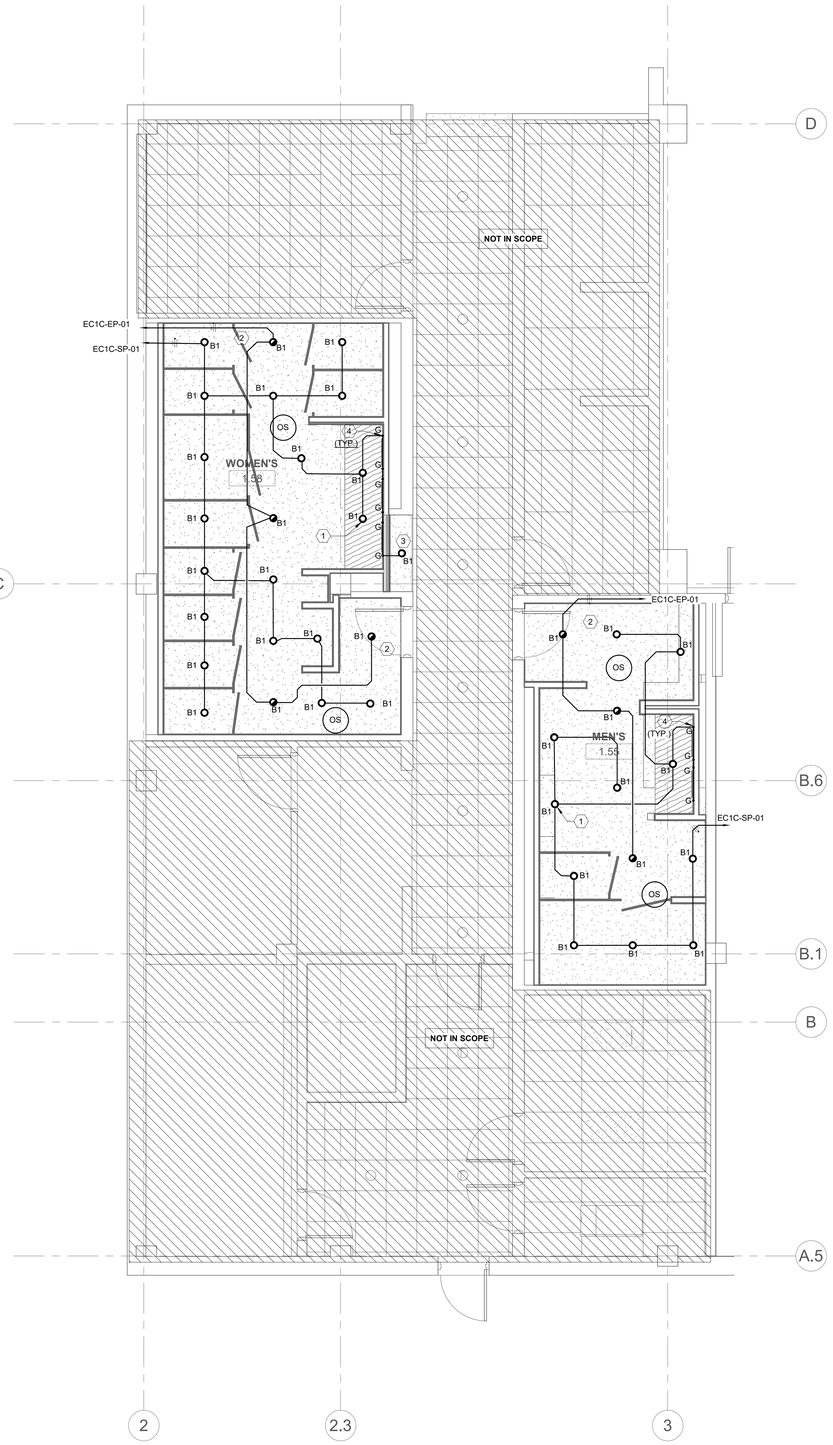
F. LIGHTS IN CORRIDORS TO BE CONTROLLED WITH EXISTING CORRIDOR LIGHTS.

G. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

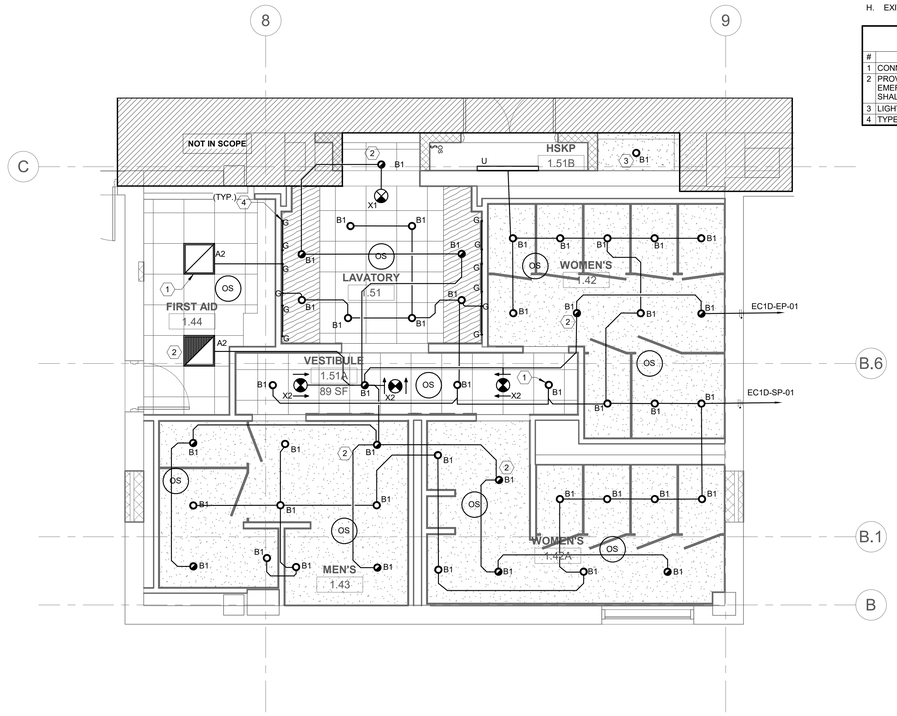
H. EXIT SIGNS ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.

KEYED NOTES (SHEET E-201)

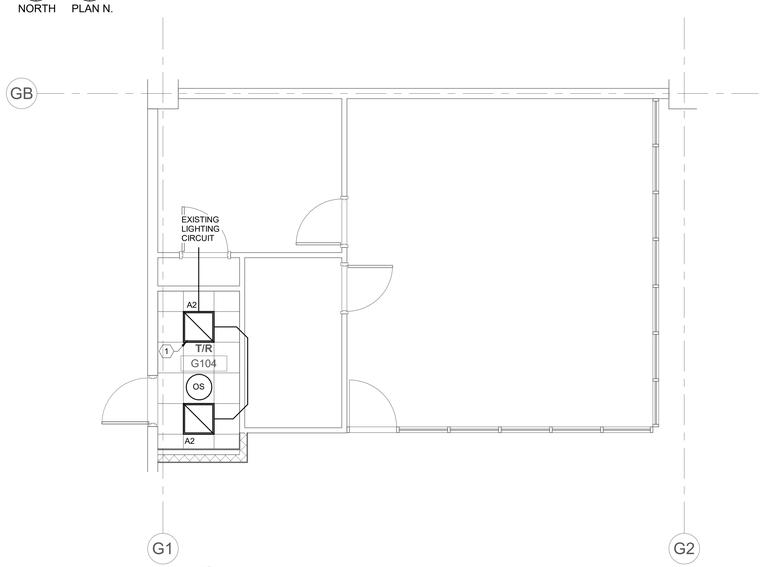
#	DESCRIPTION
1	CONNECT LIGHTING TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE UL924 RELAYS AS REQUIRED TO CONTROL EMERGENCY FIXTURES IN THIS AREA. CONNECT NEW EMERGENCY FIXTURES TO EXISTING CIRCUIT FEEDING EMERGENCY FIXTURES IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY AND MAINTAIN EXISTING CONTROLS (TYP.).
3	LIGHTING IN THIS AREA SHOULD BE CONTROLLED WITH ADJACENT CORRIDOR SPACE.
4	TYPE G LIGHTS SHALL BE INSTALLED PER ARCHITECTURAL DETAIL.



E1 LIGHTING - LEVEL 1 - SOUTH RR
E201
1/4" = 1'-0"
NORTH PLAN N.

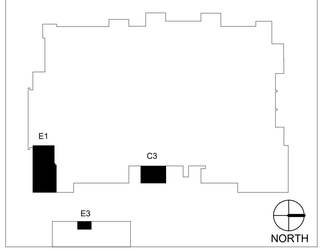


C3 LIGHTING - LEVEL 1 - EAST RR
E201
1/4" = 1'-0"
NORTH PLAN N.



E3 LIGHTING - LEVEL 1 - GARAGE RR
E201
1/4" = 1'-0"
NORTH PLAN N.

KEY PLAN - LEVEL 1



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TBPE FIRM # F-14786
TBPLS FIRM # 10194400

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LVL 1 - ENLARGED LIGHTING PLANS - SOUTH, EAST AND GARAGE

SHEET NO.
E201

6/6/2022 10:14:17 AM
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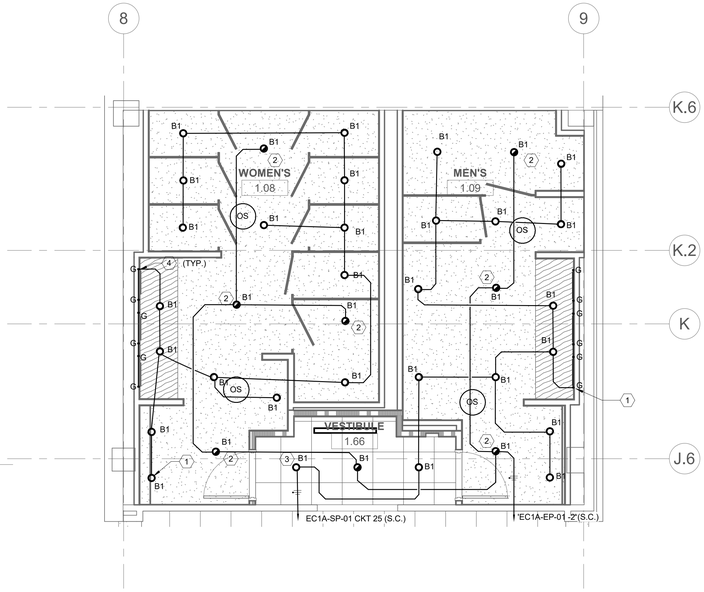


B3 E202 LIGHTING - LEVEL 1 - WEST RR

1/4" = 1'-0"

NORTH PLAN N.

LIGHTING GENERAL NOTES

A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. CONTRACTOR SHALL SUBMIT FULLY COORDINATED SHOP DRAWINGS SHOWING ALL ELECTRICAL EQUIPMENT AND DEVICES FOR REVIEW BY THE DESIGN TEAM PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL PROPOSED EQUIPMENT LOCATIONS IN DRAWINGS.

D. ALL LIGHTING CONTROL DEVICES WITHIN A SPACE ARE TO CONTROL ALL LIGHT FIXTURES WITHIN THAT SPACE. COORDINATE LOCATIONS OF LIGHTING CONTROL DEVICES PRIOR TO ROUGH-IN. OCCUPANCY AUTOMATIC-OFF DELAY TO BE SET TO 30 MINUTES MINIMUM.

E. REFER TO LUMINAIRE SCHEDULE ON E501 FOR FIXTURE LIST, DESCRIPTION, AND MOUNTING.

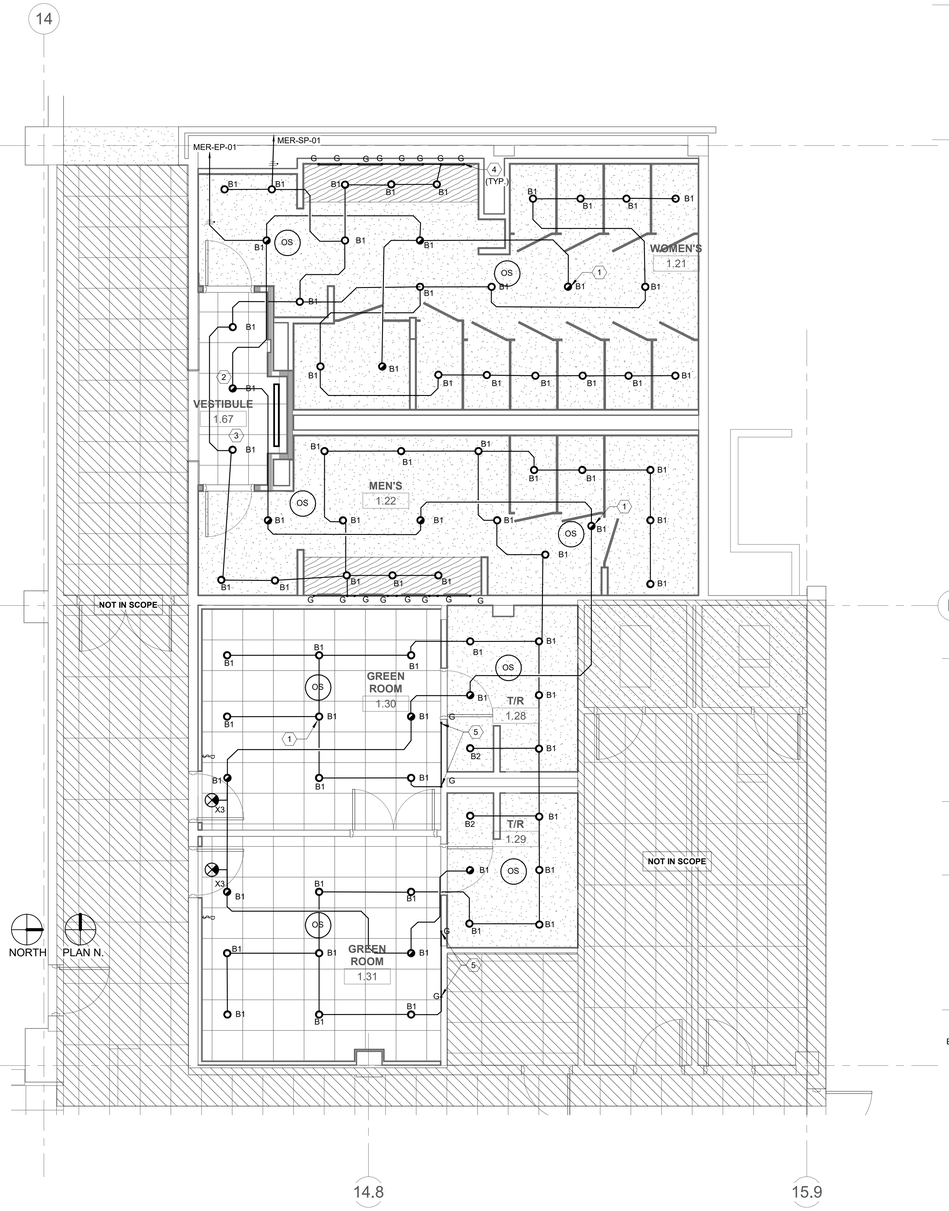
F. LIGHTS IN CORRIDORS TO BE CONTROLLED WITH EXISTING CORRIDOR LIGHTS.

G. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

H. EXIT SIGNS ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.

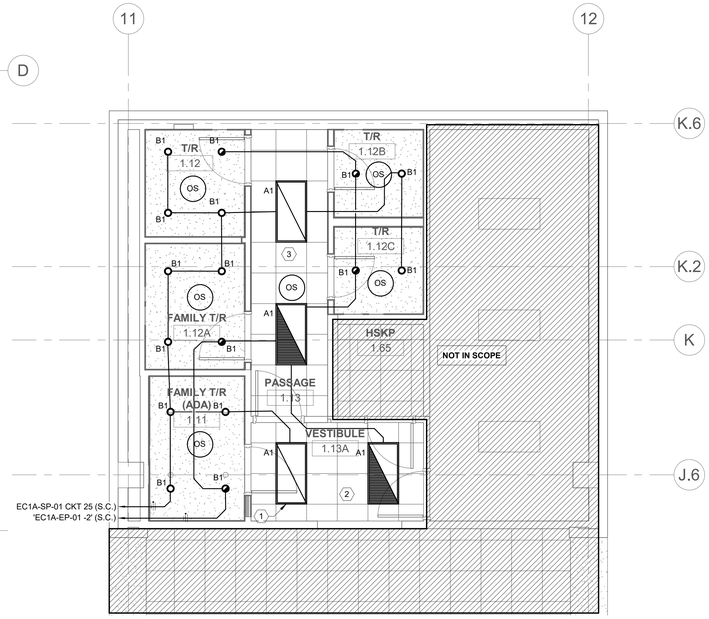
KEYED NOTES (SHEET E-202)

#	DESCRIPTION
1	CONNECT LIGHTING TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE UL924 RELAYS AS REQUIRED TO CONTROL EMERGENCY FIXTURES IN THIS AREA. CONNECT NEW EMERGENCY FIXTURES TO EXISTING CIRCUIT FEEDING EMERGENCY FIXTURES IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY AND MAINTAIN EXISTING CONTROLS (TYP.).
3	LIGHTING IN THIS AREA SHOULD BE CONTROLLED WITH ADJACENT CORRIDOR SPACE.
4	TYPE G LIGHTS SHALL BE INSTALLED PER ARCHITECTURAL DETAIL.
5	INDICATED LIGHTS SHALL BE CONTROLLED BY DIMMER STYLE SWITCH LOCATED ADJACENT TO MIRROR. COORDINATE EXACT LOCATION OF DIMMER SWITCH WITH ARCHITECT PRIOR TO ROUGH-IN.



E1 E202 LIGHTING - LEVEL 1 - NORTH RR AND GREEN ROOM

1/4" = 1'-0"

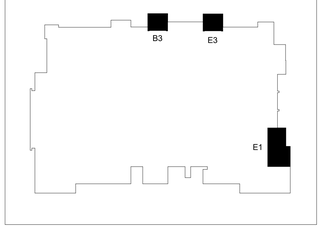


E3 E202 LIGHTING - LEVEL 1 - FAMILY RR

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 1



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06/06/2022

CNG ENGINEERING
MECHANICAL ENGINEERS
ELECTRICAL ENGINEERS
PLUMBING ENGINEERS
FIRE PROTECTION ENGINEERS
FIRE ALARM ENGINEERS
TBPE FIRM # F-9996
TBPLS FIRM # 10194

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LVL 1 - ENLARGED LIGHTING PLANS - NORTH AND WEST

SHEET NO.
E202

6/6/2022 10:14:21 AM
M:\2020\0023-20 CAA PEC Plumbing and RR Upgrades\Revit\CNG_Plumbing0023-20 CaaPEC Renovations.CNG_R19_central.rvt

LIGHTING GENERAL NOTES

A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. CONTRACTOR SHALL SUBMIT FULLY COORDINATED SHOP DRAWINGS SHOWING ALL ELECTRICAL EQUIPMENT AND DEVICES FOR REVIEW BY THE DESIGN TEAM PRIOR TO ROUGH-IN. CONTRACTOR SHALL INCLUDE ALL PROPOSED EQUIPMENT LOCATIONS IN DRAWINGS.

D. ALL LIGHTING CONTROL DEVICES WITHIN A SPACE ARE TO CONTROL ALL LIGHT FIXTURES WITHIN THAT SPACE. COORDINATE LOCATIONS OF LIGHTING CONTROL DEVICES PRIOR TO ROUGH-IN. OCCUPANCY AUTOMATIC-OFF DELAY TO BE SET TO 30 MINUTES MINIMUM.

E. REFER TO LUMINAIRE SCHEDULE ON E501 FOR FIXTURE LIST, DESCRIPTION, AND MOUNTING.

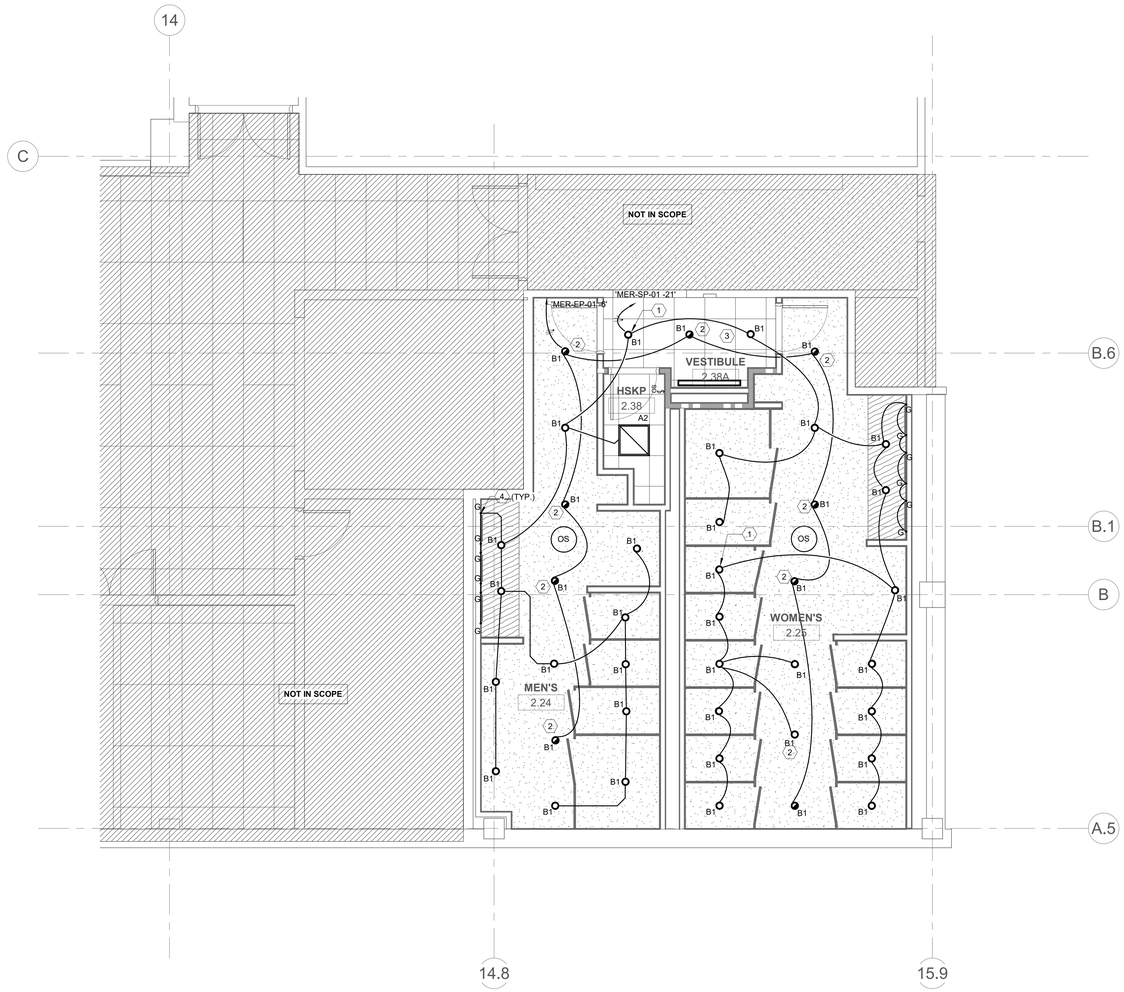
F. LIGHTS IN CORRIDORS TO BE CONTROLLED WITH EXISTING CORRIDOR LIGHTS.

G. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATIONS OF LIGHT FIXTURES.

H. EXIT SIGNS ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.

KEYED NOTES (SHEET E-203)

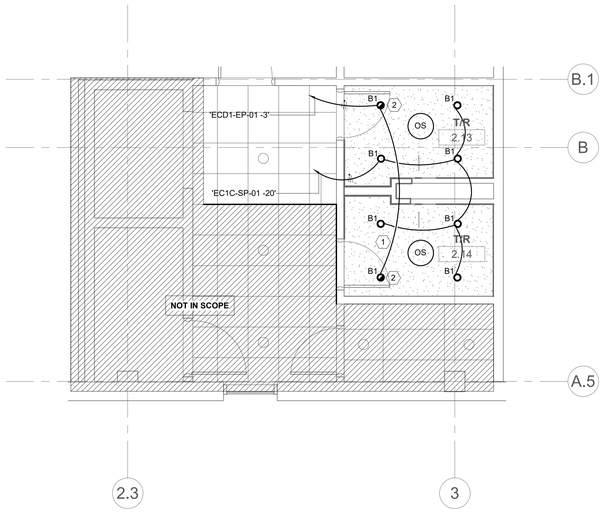
#	DESCRIPTION
1	CONNECT LIGHTING TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE UL924 RELAYS AS REQUIRED TO CONTROL EMERGENCY FIXTURES IN THIS AREA. CONNECT NEW EMERGENCY FIXTURES TO EXISTING CIRCUIT FEEDING EMERGENCY FIXTURES IN THIS AREA. CONTRACTOR SHALL FIELD VERIFY AND MAINTAIN EXISTING CONTROLS (TYP.).
3	LIGHTING IN THIS AREA SHOULD BE CONTROLLED WITH ADJACENT CORRIDOR SPACE.
4	TYPE G LIGHTS SHALL BE INSTALLED PER ARCHITECTURAL DETAIL.



D1 E203 LIGHTING - LEVEL 2 - RR NORTH

1/4" = 1'-0"

NORTH PLAN N.

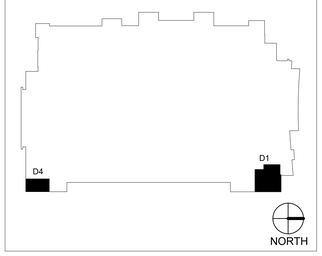


D4 E203 LIGHTING - LEVEL 2 - RR SOUTH

1/4" = 1'-0"

NORTH PLAN N.

KEY PLAN - LEVEL 2



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TBPE FIRM # F-14746

CITY OF AUSTIN
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Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LVL 2 - ENLARGED LIGHTING PLANS - NORTH AND STAFF

SHEET NO.
E203

6/6/2022 10:14:24 AM
M:\2020\0023-20 CoA PEC Plumbing and RR Upgrades\Revit\20023-20 CoA PEC Plumbing and RR Renovations CNG_R19_central.rvt

POWER GENERAL NOTES

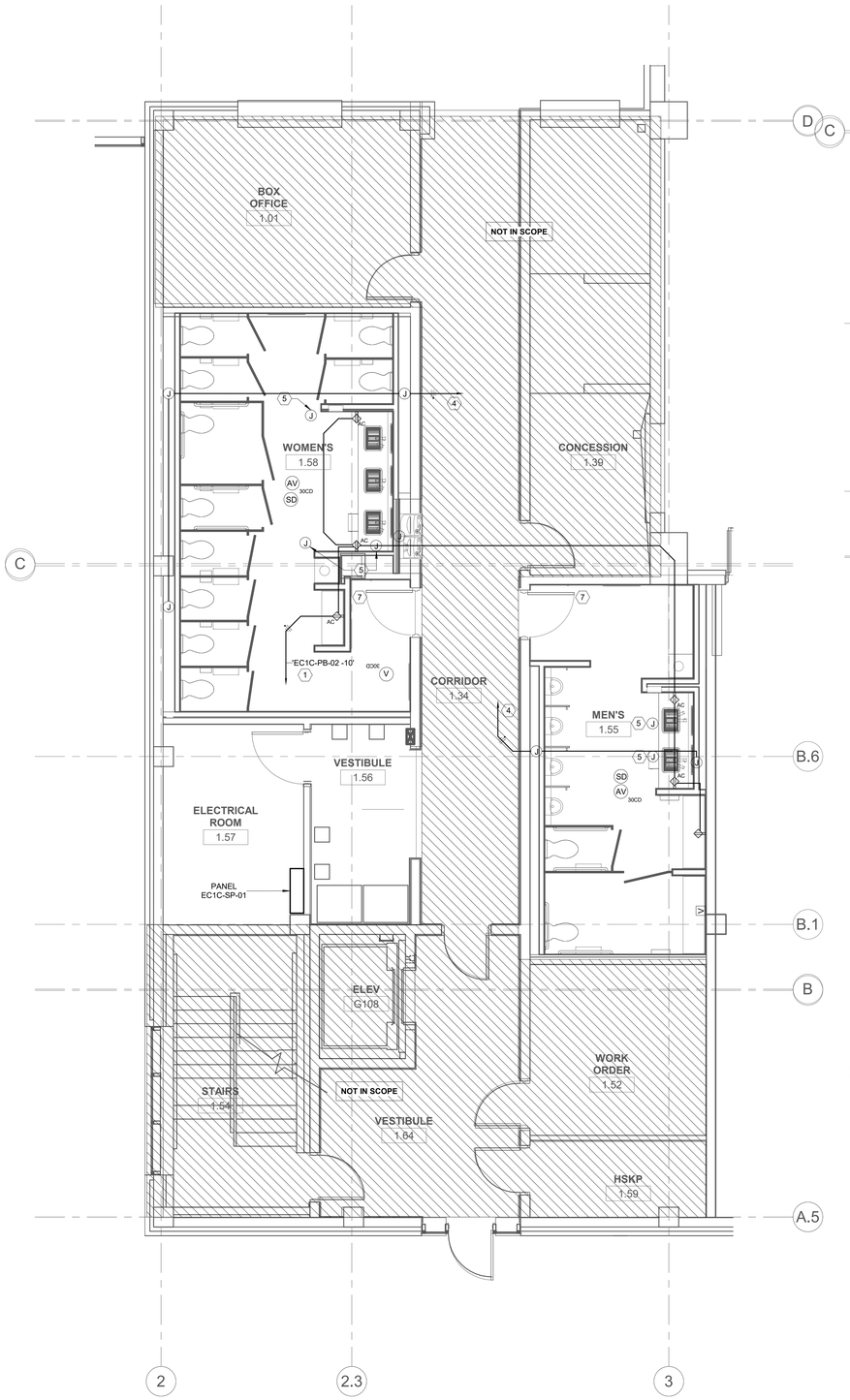
A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

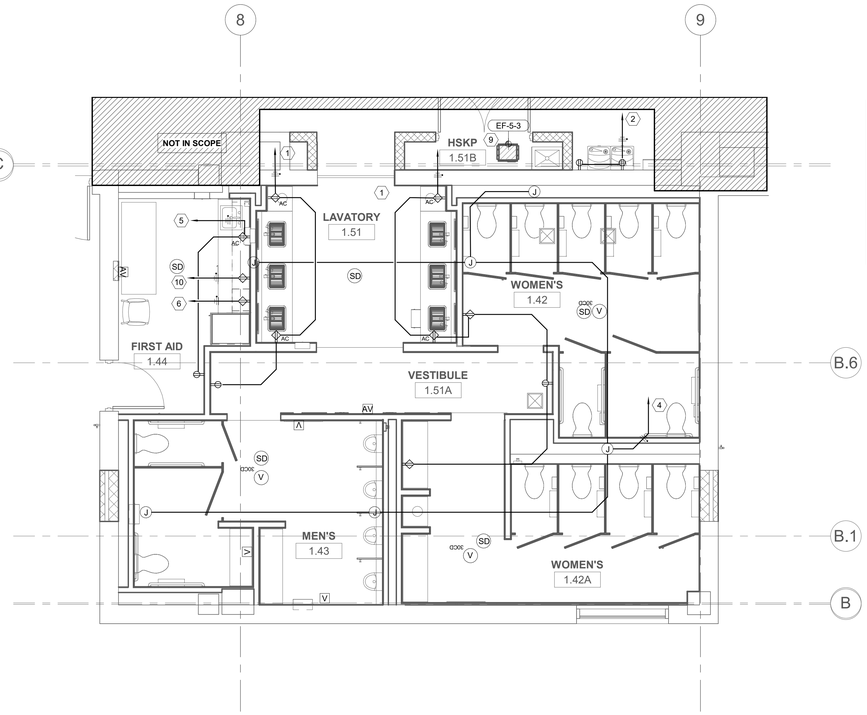
C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON E501 FOR DISCONNECT, WIRING, AND CIRCUIT INFORMATION FOR MECHANICAL AND PLUMBING EQUIPMENT.

KEYED NOTES (SHEET E-301)

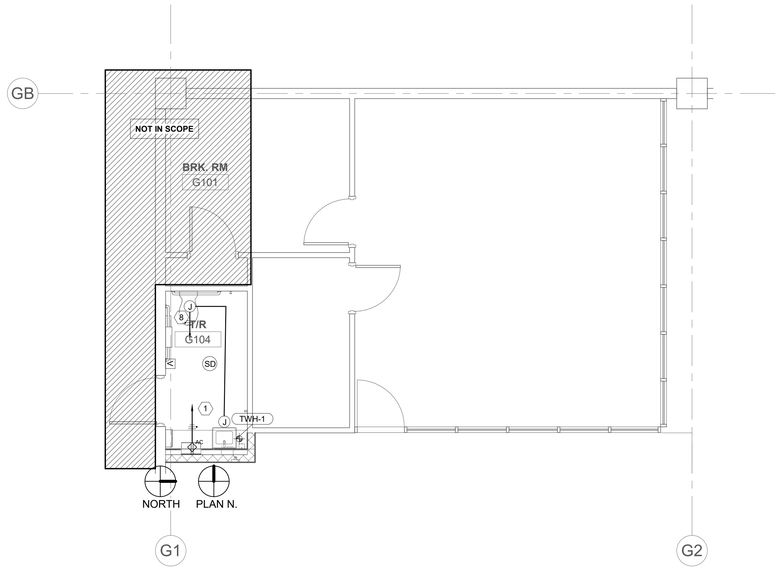
#	DESCRIPTION
1	CONNECT RECEPTACLES TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE 120V DEDICATED CIRCUIT FOR BOTTLE FILL STATION. PROVIDE GFCI MODULE ON WALL ADJACENT TO STATION.
4	CONNECT AUTO-FLUSH AND AUTO-FAUCET SENSOR(S) TO EXISTING CIRCUIT SERVING AREA (TYP).
5	PROVIDE 120V POWER TO PAPER TOWEL DISPENSER.
6	PROVIDE 120V POWER BELOW COUNTER TO REFRIGERATOR WITH A GFCI MODULE ABOVE COUNTER.
7	PROVIDE LOW-VOLTAGE ELECTROMAGNETIC DOOR HOLDER. CONNECT TO FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT.
8	PROVIDE NEW 120V POWER TO NEW AUTO-FLUSH AND AUTO-FAUCET SENSORS.
9	PROVIDE WALL SWITCH FOR EXHAUST FAN SEPARATE FROM LIGHT SWITCH, REFER TO MECHANICAL SCHEDULES.
10	PROVIDE 120V POWER BELOW COUNTER TO FREEZER.



E1 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - NEW SOUTH RR
E301 1/4" = 1'-0"
NORTH PLAN N.

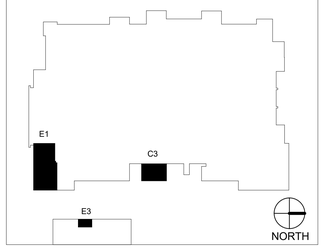


C3 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - NEW EAST RR
E301 1/4" = 1'-0"
NORTH PLAN N.



E3 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - NEW GARAGE RR
E301 1/4" = 1'-0"
NORTH PLAN N.

KEY PLAN - LEVEL 1



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TBPE FIRM # F-14439
TBPLS FIRM # 10194404

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PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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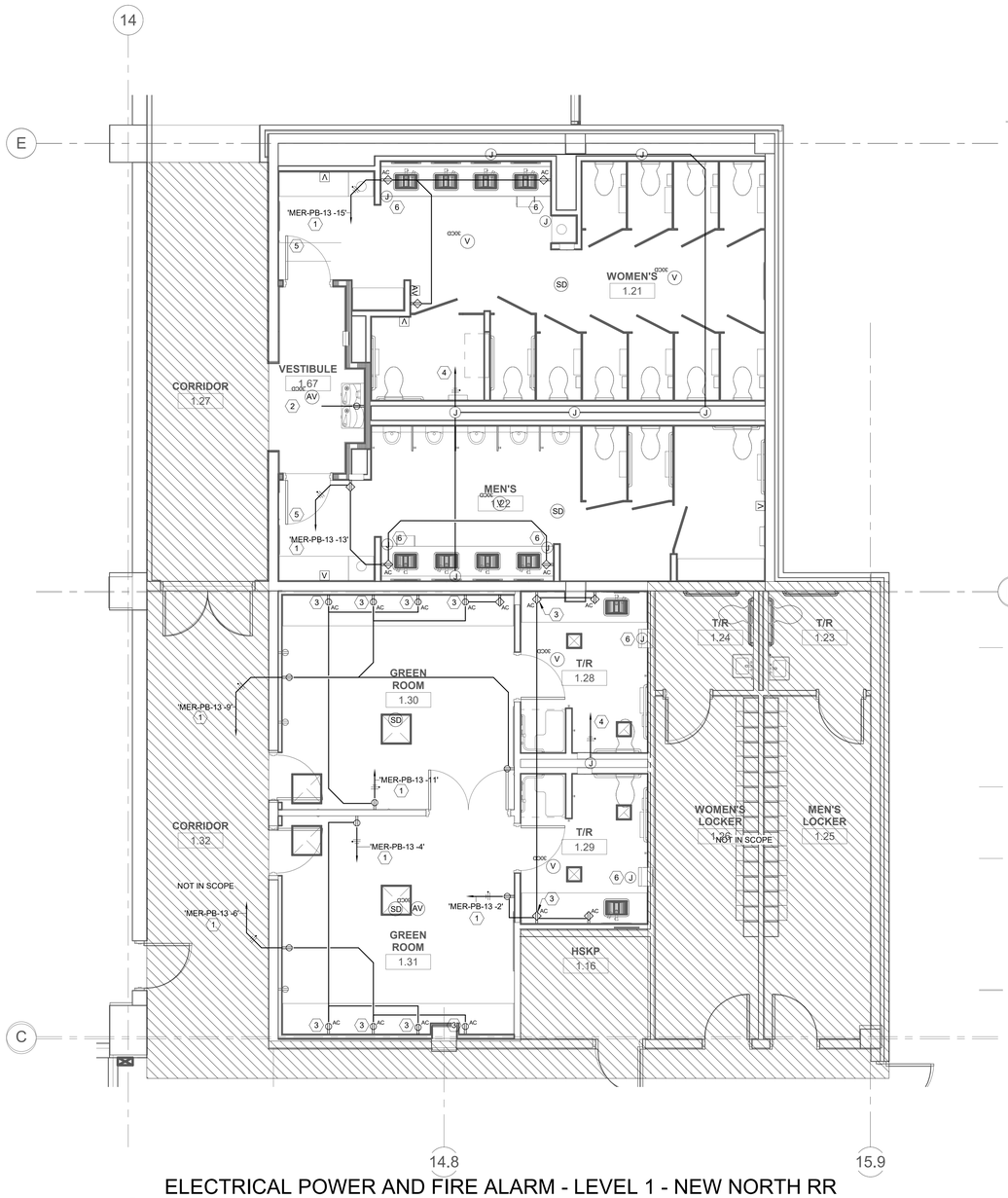
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
LVL 1 - ENLARGED POWER PLANS - SOUTH, EAST AND GARAGE

SHEET NO.
E301

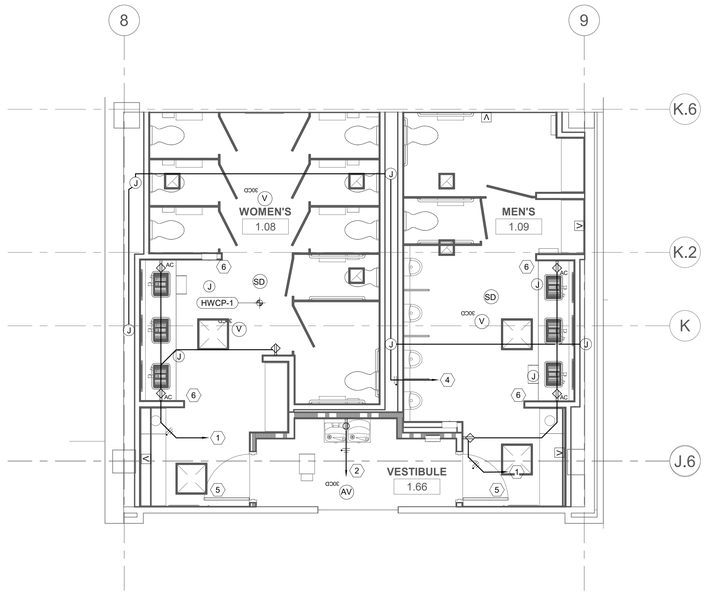
6/6/2022 10:14:27 AM
M:\2020\0023-20 CoA-PEC Plumbing and RR Upgrades\Revit\Central Models\20-0023-CoA-PEC Renovations_CNG_R19_central.rvt



E1 E302 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - NEW NORTH RR AND GREEN ROOM

1/4" = 1'-0"

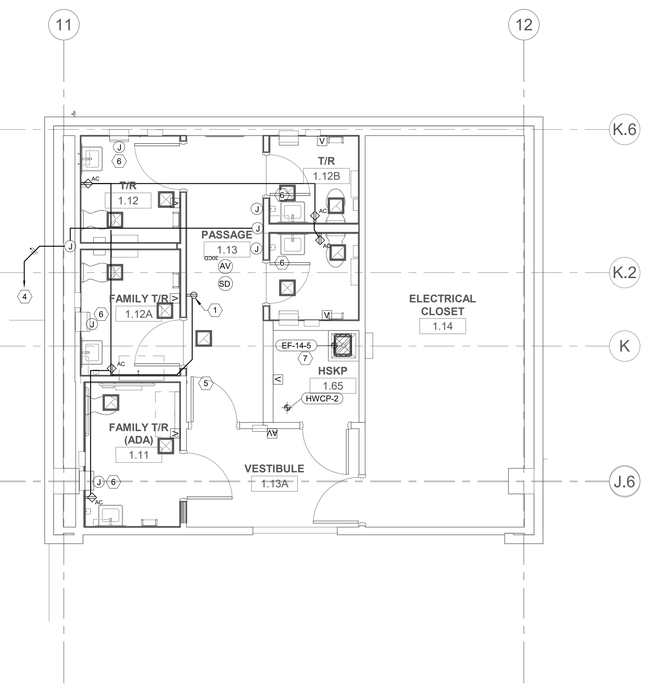
NORTH PLAN N.



B3 E302 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - NEW WEST RR

1/4" = 1'-0"

NORTH PLAN N.



E3 E302 ELECTRICAL POWER AND FIRE ALARM - LEVEL 1 - FAMILY RR

1/4" = 1'-0"

NORTH PLAN N.

POWER GENERAL NOTES

A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON E501 FOR DISCONNECT, WIRING, AND CIRCUIT INFORMATION FOR MECHANICAL AND PLUMBING EQUIPMENT.

KEYED NOTES (SHEET E-302)

#	DESCRIPTION
1	CONNECT RECEPTACLES TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE 120V DEDICATED CIRCUIT FOR BOTTLE FILL STATION. PROVIDE GFCI MODULE ON WALL ADJACENT TO STATION.
3	PROVIDE USB-TYPE RECEPTACLES MOUNTED HORIZONTALLY.
4	CONNECT AUTO-FLUSH AND AUTO-FAUCET SENSOR(S) TO EXISTING CIRCUIT SERVING AREA (TYP).
5	PROVIDE LOW-VOLTAGE ELECTROMAGNETIC DOOR HOLDER. CONNECT TO FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	PROVIDE 120V POWER TO PAPER TOWEL DISPENSER.
7	PROVIDE WALL SWITCH FOR EXHAUST FAN SEPARATE FROM LIGHT SWITCH, REFER TO MECHANICAL SCHEDULES.

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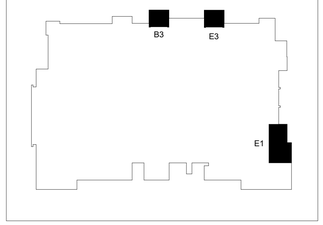
CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	AM/HG
Checked	DJ
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

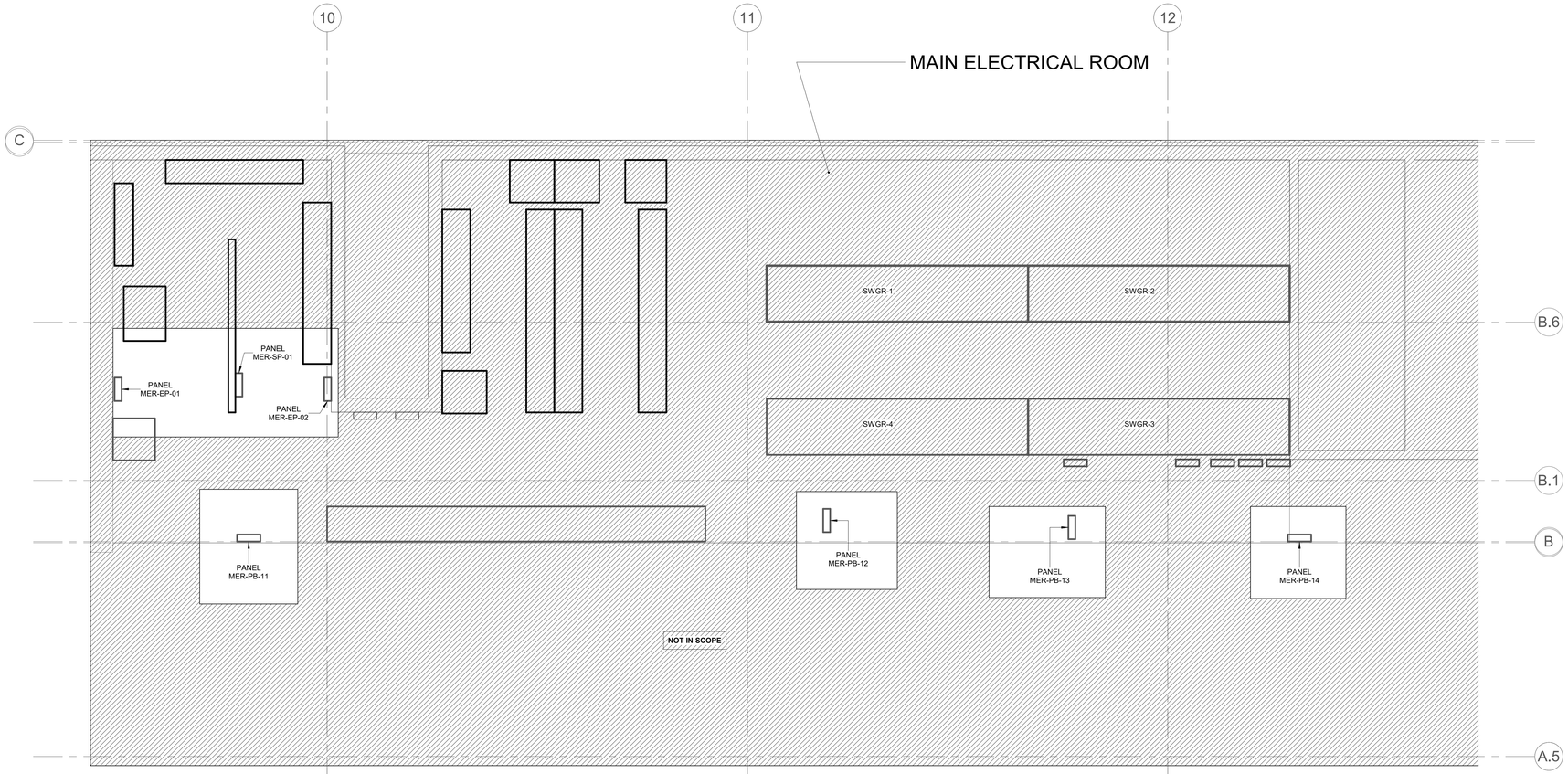
KEY PLAN - LEVEL 1



SHEET TITLE
LVL 1 - ENLARGED POWER PLANS - NORTH AND WEST

SHEET NO.
E302

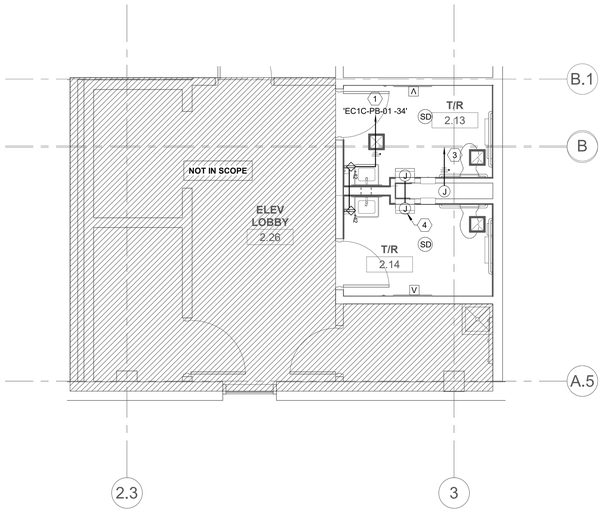
6/6/2022 10:14:31 AM
M:\2020\0023-20 CoA PEC-Plumbing and RR Upgrades\Revit\Palmer Events Center Renovations_CNG_R19_central.rvt



C1 E303 ELECTRICAL POWER - LEVEL 2 - NORTH SWITCHGEAR

1/4" = 1'-0"

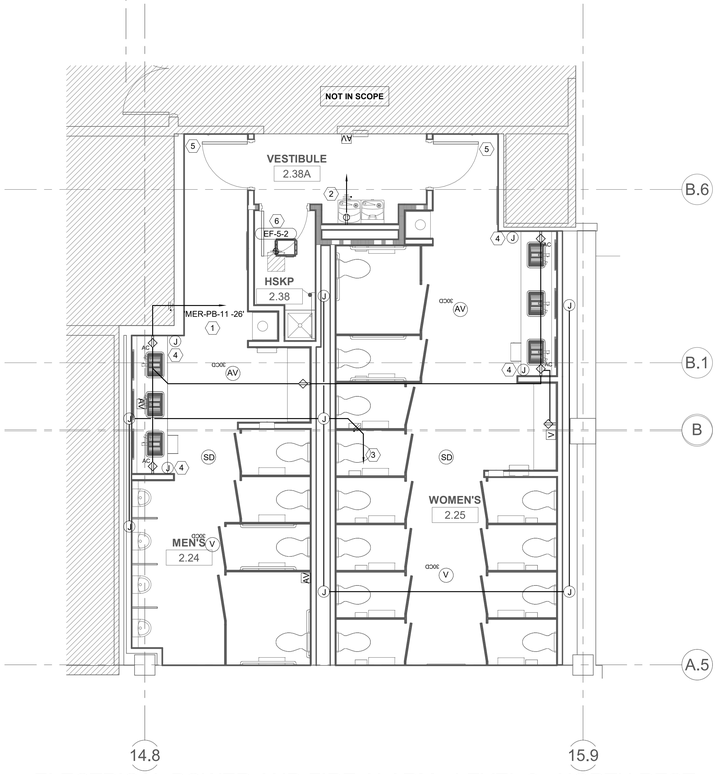
NORTH PLAN N.



E1 E303 ELECTRICAL POWER AND FIRE ALARM- LEVEL 2 - STAFF RR

1/4" = 1'-0"

NORTH PLAN N.



E4 E303 ELECTRICAL POWER AND FIRE ALARM - LEVEL 2 - NORTH REST ROOMS

1/4" = 1'-0"

NORTH PLAN N.

POWER GENERAL NOTES

A. REFER TO PROJECT GENERAL NOTES ON SHEET E000 FOR ADDITIONAL INFORMATION.

B. LOCATIONS OF ELECTRICAL EQUIPMENT AND DEVICES ARE DIAGRAMMATIC. EXACT LOCATIONS SHALL BE COORDINATED WITH OTHER DISCIPLINES AND DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. REFER TO EQUIPMENT CONNECTION SCHEDULE ON E501 FOR DISCONNECT, WIRING, AND CIRCUIT INFORMATION FOR MECHANICAL AND PLUMBING EQUIPMENT.

KEYED NOTES (SHEET E-303)

#	DESCRIPTION
1	CONNECT RECEPTACLES TO EXISTING CIRCUIT SERVING AREA (TYP).
2	PROVIDE 120V DEDICATED CIRCUIT FOR BOTTLE FILL STATION. PROVIDE GFCI MODULE ON WALL ADJACENT TO STATION.
3	CONNECT AUTO-FLUSH AND AUTO-FAUCET SENSOR(S) TO EXISTING CIRCUIT SERVING AREA (TYP).
4	PROVIDE 120V POWER TO PAPER TOWEL DISPENSER.
5	PROVIDE LOW-VOLTAGE ELECTROMAGNETIC DOOR HOLDER. CONNECT TO FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION WITH ARCHITECT.
6	PROVIDE WALL SWITCH FOR EXHAUST FAN SEPARATE FROM LIGHT SWITCH, REFER TO MECHANICAL SCHEDULES.

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CNG ENGINEERING
TBPE REGISTRATION NO. F-21390
TBPLS REGISTRATION NO. 10194395
TBAE REGISTRATION NO. 14000
TBPE FIRM # F-21390

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

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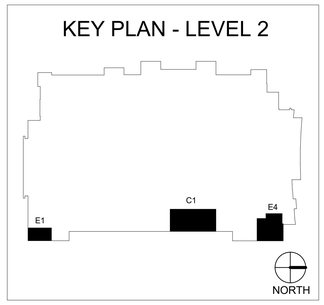
KEY PLAN - LEVEL 2



SHEET TITLE
LVL 2 - ENLARGED POWER PLANS - NORTH AND STAFF

SHEET NO.
E303

6/6/2022 10:14:34 AM
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ELECTRICAL -- LUMINAIRE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	FIXTURE FAMILY	LAMPS & CCT	VOLTS	APPARENT LOAD	MOUNTING	NOTES
A1	2' X 4' RECESSED GRID MOUNT, 3 3/4" DEEP, REGRESSED NATURAL ALUMINUM DOOR, SPRING LOADED LATCHING, KSH ACTF140 ACRYLIC ACRYLIC LENS, T&B LD3-D DISCONNECT	COOPER	METALUX CRUZE ST 24CZ2	INTEGRAL 4000K LED	277	44 VA	RECESSED	
A2	2' X 2' RECESSED GRID MOUNT, 3 3/4" DEEP, REGRESSED NATURAL ALUMINUM DOOR, SPRING LOADED LATCHING, KSH ACTF140 ACRYLIC ACRYLIC LENS, T&B LD3-D DISCONNECT	COOPER	METALUX CRUZE ST 24CZ2	INTEGRAL 4000K LED	277	20 VA	RECESSED	
B1	4" ROUND RECESSED DOWNLIGHT	COOPER	HALO LT4 4000K	LED 4000K	277	15 VA	RECESSED	
B2	4" ROUND RECESSED DOWNLIGHT WITH IP66 GASKET	COOPER	HALO LT4 4000K	LED 4000K	277	15 VA	RECESSED	
G	SURFACE MOUNTED SLOT LED LIGHT FIXTURE	TEMPO	SLOTLINE PRO	INTEGRAL 4000K LED	277	10 VA	SURFACE	
U	EXISTING FIXTURE TO BE REUSED IN CLOSET	N/A	N/A		277	4W/LF	SURFACE	
X1	6-INCH GREEN LETTERS, EDGE-LIT LED EXIT SIGN, SINGLE FACE CLEAR, SATIN ALUMINUM HOUSING.	*SURE-LITES DUAL-LITE LITHONIA LIGHTING	*EUX6GWH LES-X-S-R-X-W-A EDG 1 R M6	INTEGRAL GREEN LED	277	2 VA	SURFACE	
X2	6-INCH GREEN LETTERS, EDGE-LIT LED EXIT SIGN, DOUBLE FACE MIRROR, SATIN ALUMINUM HOUSING.	*SURE-LITES DUAL-LITE LITHONIA LIGHTING	*EUX6GWH LES-X-D-R-X-W-A EDG 2 RMR M6	INTEGRAL GREEN LED	277	3 VA	SURFACE	
X3	6-INCH GREEN LETTERS, WALL MOUNTED LED EXIT SIGN, SINGLE FACE, SATIN ALUMINUM HOUSING.	*SURE-LITES DUAL-LITE LITHONIA LIGHTING	*CX61WH SESRWN LQC 1 R	INTEGRAL GREEN LED	277	2 VA	RECESSED	

ELECTRICAL -- EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT TAG	VOLTAGE / PHASE	KW HEAT	MOTOR (HP)	FULL LOAD AMPS	MINIMUM CIRCUIT AMPACITY	MAXIMUM OVERCURRENT PROTECTION	DISCONNECT MEANS	ENCLOSURE TYPE	WIRE & CONDUIT	PANEL	CIRCUIT	NOTES
EXHAUST FAN												
EF-5-2	120/1	---	1 @ 1/10	1.3 A	1.6 A	15 A	MOTOR RATED SNAP SWITCH	N1	2#12, #12GND, 3/4"C	MER-PB-12	37	1
EF-5-3	120/1	---	1 @ 1/10	1.3 A	1.6 A	15 A	MOTOR RATED SNAP SWITCH	N1	2#12, #12GND, 3/4"C	EC1D-PB-05	6	1
EF-14-5	120/1	---	1 @ 1/10	1.3 A	1.6 A	15 A	MOTOR RATED SNAP SWITCH	N1	2#12, #12GND, 3/4"C	EC1B-PB-05	35	1
HOT WATER CIRCULATING PUMP												
HWCP-1	120/1	---	1 @ 1/6	3.0 A	3.8 A	15 A	MOTOR RATED SNAP SWITCH	N1	2#12, #12GND, 3/4"C	EC1A-PB-03	40	---
HWCP-2	120/1	---	1 @ 1/6	3.0 A	3.8 A	15 A	MOTOR RATED SNAP SWITCH	N1	2#12, #12GND, 3/4"C	EC1B-PB-05	33	---
TANKLESS WATER HEATER												
TWH-1	208/1	---	---	13.0 A	16.3 A	20 A	240V, 30A, HD, DISCONNECT SWITCH	N3R	2#12, #12GND, 3/4"C	EC1D-PB-05	34,36	2

NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR CONTROLS AND ADDITIONAL REQUIREMENTS.
2. PROVIDE MANUAL RESISTANCE LOAD RATED SWITCH PER DISCONNECTING MEANS.

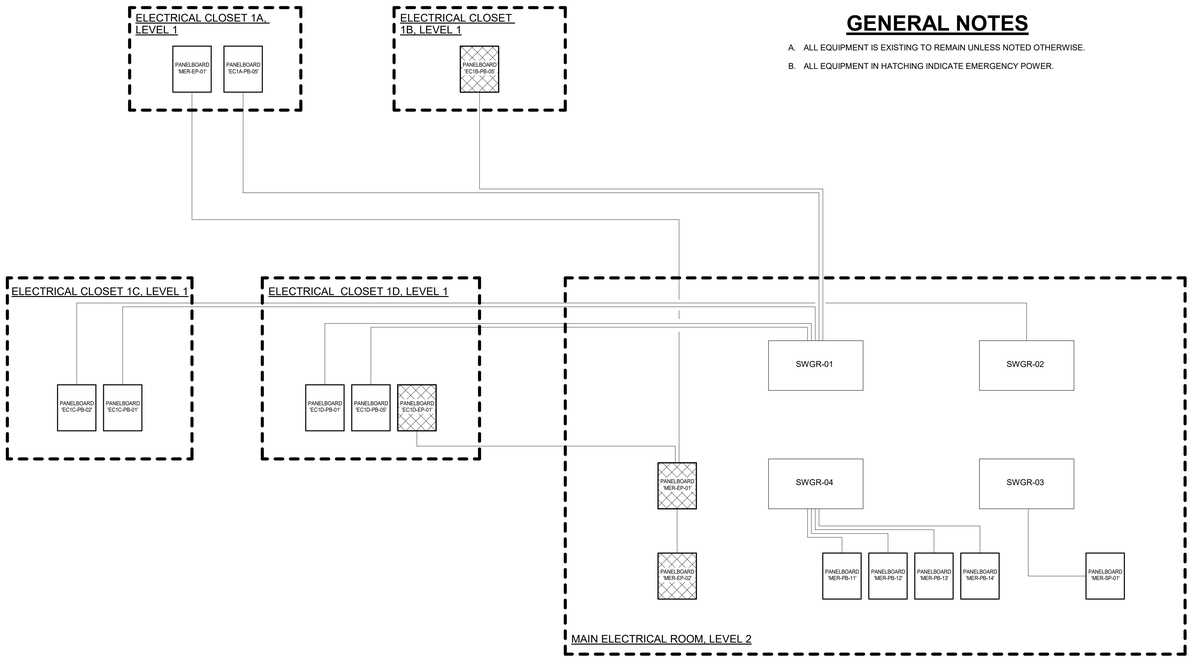
ELECTRICAL LOAD ANALYSIS SUMMARY -NET CHANGE

PROJECT:	CoA PALMER EVENT CENTER PLUMBING AND RR UPGRADES	PHASE TO PHASE	120
ADDRESS:	900 BARTON SPRINGS RD, AUSTIN, TEXAS	PHASE TO NEUTRAL	208
OWNER:	CITY OF AUSTIN	PHASE	3
		WIRES	4

LOAD DESCRIPTION		QUANTITY	VA	kVA	AMPS
A. EXISTING LOADS (FROM UTILITY DEMAND)					
PRIOR 12 MONTH PEAK DEMAND (JULY , 2021)	1000 kW	pf @ 0.82	1,219,512	1,220	3,387.5
B. REMOVED LOADS					
FURNITURE RECEPTACLES		8	1,440	1.44	12.0
FURNITURE LIGHTING - 1X4 (3) 32W LAMP		2	192	0.19	1.6
FURNITURE LIGHTING - 1X4 (3) 30W LAMP		1	60	0.06	0.5
FURNITURE LIGHTING - 1X4 (3) 25W LAMP		1	50	0.05	0.4
FURNITURE LIGHTING - 1X2 (1) 25W LAMP		7	175	0.18	1.5
C. ADDED LOADS					
RECEPTACLES		5	900	0.90	7.5
LIGHTING - 2X2 LED		4	144	0.14	1.2
WALL SCONCE -LED		1	17	0.02	0.1
MECHANCIAL EQUIPMENT		1	3,892	3.89	18.7
D. NET CHANGE IN LOADS					
		NET LOAD:	3,036	3.036	11.6
		NEW LOAD:	1,216,476	1,216	3,376

NOTES:

1. ELECTRICAL LOADS SHOWN ABOVE ARE ARE SUPPLIED BY TWO SEPARATE PANELBOARDS, '10LB' FOR RECEPTACLES AND 10LA' FOR LIGHTING. '10LA' IS A 300A PANEL WITH A 300MCB AND PROVIDES A FEED THROUGH PANEL '10LB' AND A 70 AMP BREAKER FOR PANEL '10LC' WHICH SHOULD BE ABLE TO ACCOMMODATE THE CHANGE IN LOAD.
2. THIS PROJECT PROVIDES AN INCREASE IN ELECTRICAL LOAD TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING PANEL LOAD CAPACITIES IN ORDER TO CONFIRM INDIVIDUAL PANELS ARE CAPABLE OF ACCOMODATING THE INDIVIDUAL ELECTRICAL LOADS.



1 E501 ELECTRICAL RISER DIAGRAM

GENERAL NOTES

A. ALL EQUIPMENT IS EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

B. ALL EQUIPMENT IN HATCHING INDICATE EMERGENCY POWER.

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Revisions	

SHEET TITLE
ELECTRICAL RISER DIAGRAM AND SCHEDULES

SHEET NO.
E501

6/6/2022 10:14:38 AM
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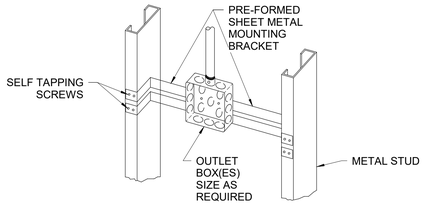
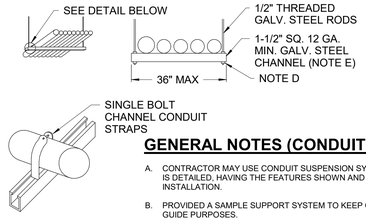


GENERAL NOTES (BOX MOUNTING DETAIL ONLY)

A. CONDUITS SHALL BE SUPPORTED PER NEC 358.30(A).

B. THIS DETAIL TO BE USED FOR OUTLET AND DEVICE BOX INSTALLATIONS NOT INCLUDED IN OTHER DETAILS. IF DEPTH OF BOX EXCEEDS 2-1/2", PROVIDE SUPPORT BRACKET SIMILAR TO AND EQUAL IN STRENGTH TO THE ONE SPECIFIED.

1 TYPICAL BOX MOUNTING DETAIL
E601 NOT-TO-SCALE



GENERAL NOTES (CONDUIT HANGER DETAIL ONLY)

A. CONTRACTOR MAY USE CONDUIT SUSPENSION SYSTEM EQUIVALENT TO THAT WHICH IS DETAILED, HAVING THE FEATURES SHOWN AND APPROVED IN ADVANCE OF INSTALLATION.

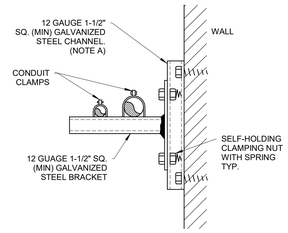
B. PROVIDED A SAMPLE SUPPORT SYSTEM TO KEEP ON JOB SITE FOR CONSTRUCTION GUIDE PURPOSES.

C. CONDUIT SUSPENSION SYSTEM SHALL BE INDEPENDENT OF ANY OTHER SUSPENSION SYSTEM.

D. PROVIDE NUT, LOCKNUT AND CUT ROD 1" FROM LOCKNUT, PROVIDE CAPNUT ON END OF ROD.

E. ANY EXTERIOR LOCATIONS SHALL REQUIRE THAT THE GALVANIZED CHANNELS BE HOT DIPPED GALVANIZED CORROSION RESISTANT STEEL CHANNELS.

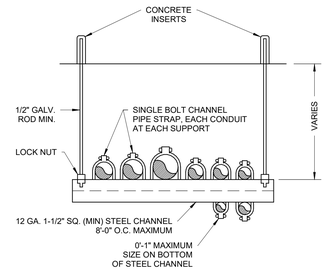
2 TYPICAL CONDUIT HANGER DETAIL
E601 NOT-TO-SCALE



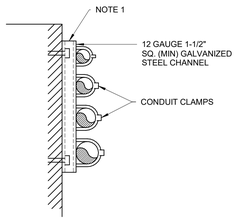
GENERAL NOTES (THIS DETAIL ONLY)

A. SECURE TO WALL WITH PLATED BOLTS USING METHODS DESCRIBED IN SPECIFICATIONS SECTION 26111. (CONDUIT SYSTEMS)

3 TYPICAL CONDUIT SUPPORT ELEVATION DETAIL
E601 NOT-TO-SCALE



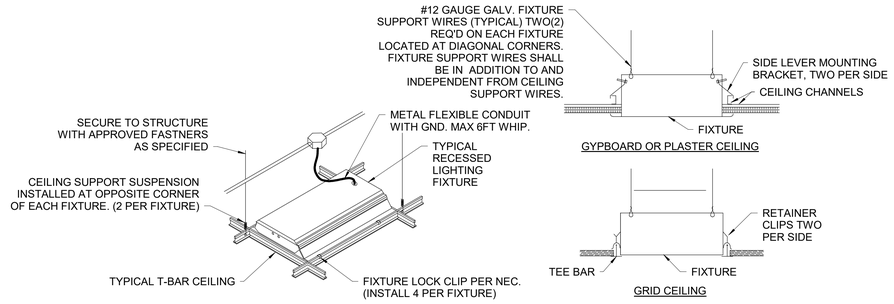
4 TYPICAL MULTIPLE CONDUIT SUPPORT DETAIL
E601 NOT-TO-SCALE



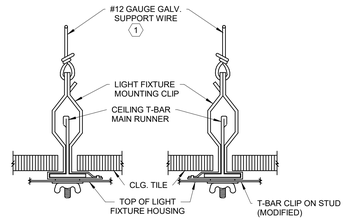
GENERAL NOTES (THIS DETAIL ONLY)

1. SECURE TO WALL WITH PLATED BOLTS USING METHODS DESCRIBED IN SPECIFICATIONS SECTION 26111. (CONDUIT SYSTEMS)

5 TYPICAL WALL MOUNTED CONDUIT DETAIL
E601 NOT-TO-SCALE



6 TYPICAL RECESSED CEILING FIXTURE MOUNTING DETAIL
E601 NOT-TO-SCALE

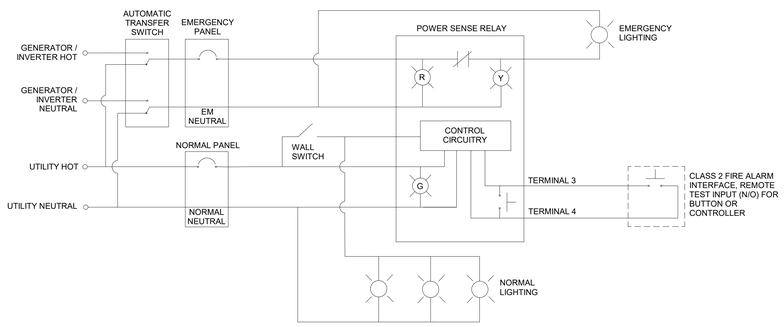


FOR SURFACE MOUNTING OF LIGHT FIXTURES BELOW SUSPENDED T-BAR CEILINGS.

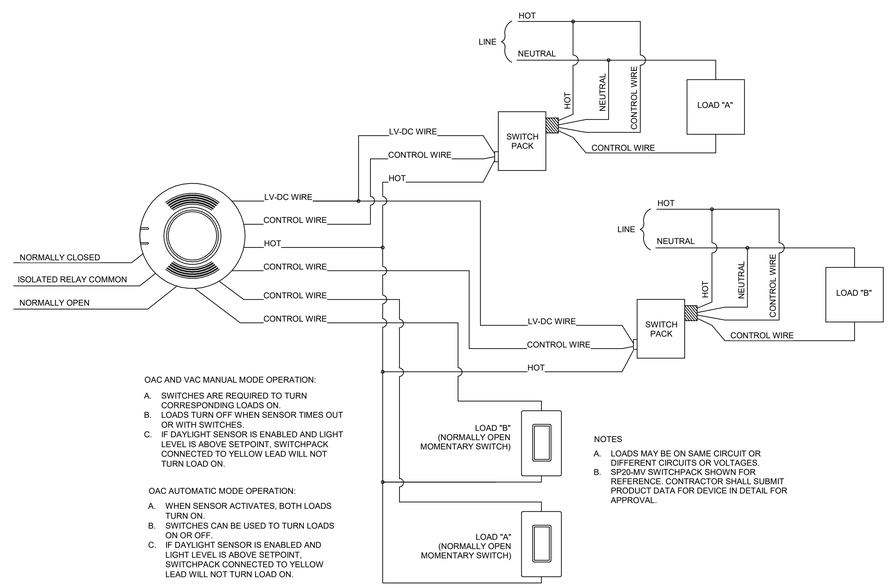
KEYED NOTES (SURFACE MTG. DETAIL ONLY)

1. FIXTURE SUPPORT WIRES SHALL BE IN ADDITION TO AND INDEPENDENT FROM CEILING SUPPORT WIRES.

7 TYPICAL SURFACE FIXTURE MOUNTING DETAIL
E601 NOT-TO-SCALE



8 TYPICAL UL-924 RELAY DETAIL
E601 NOT-TO-SCALE



OAC AND VAC MANUAL MODE OPERATION:

A. SWITCHES ARE REQUIRED TO TURN CORRESPONDING LOADS ON.
B. LOADS TURN OFF WHEN SENSOR TIMES OUT OR WITH SWITCHES.
C. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, SWITCHPACK CONNECTED TO YELLOW LEAD WILL NOT TURN LOAD ON.

OAC AUTOMATIC MODE OPERATION:

A. WHEN SENSOR ACTIVATES, BOTH LOADS TURN ON.
B. SWITCHES CAN BE USED TO TURN LOADS ON OR OFF.
C. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, SWITCHPACK CONNECTED TO YELLOW LEAD WILL NOT TURN LOAD ON.

NOTES

A. LOADS MAY BE ON SAME CIRCUIT OR DIFFERENT CIRCUITS OR VOLTAGES.
B. SP20-MV SWITCHPACK SHOWN FOR REFERENCE. CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR DEVICE IN DETAIL FOR APPROVAL.

9 TYPICAL OCCUPANCY SENSOR DETAIL/DIAGRAM
E601 NOT-TO-SCALE

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TBPLS FIRM #10194404

CITY OF AUSTIN
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SHEET TITLE
ELECTRICAL DETAILS

SHEET NO.
E601

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PANEL: EC1A-PB-03

LOCATION: ELECTRICAL 1.07 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	360			1	15 A	HWCP-1	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

NOTES:

[1]		[6]	
[2]		[7]	
[3]		[8]	
[4]		[9]	
[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	360 VA	3 A
05 EQUIPMENT (NEC 430.24)	360 VA	100.00%	360 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	360 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**360 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	1 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**1 A**	

PANEL: EC1A-PB-05

LOCATION: ELECTRICAL 1.07 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	LADIES RESTROOM RECEPT.	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	MENS ROOM RECEPT.	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	MENS RESTROOM RECEPT.	20 A	1			0							28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	0 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**0 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: EC1A-EP-01

LOCATION: ELECTRICAL 1.07 **MAINS RATING &...** 60 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 100A **MOUNTING:** SURFACE
VOLTAGE: 480/277 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	281					1	20 A	GROUND FLOOR WEST BATHROOM EM....	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	281 VA	125.00%	352 VA	PHASE A:	281 VA	1 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	281 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**352 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: EC1B-PB-05

LOCATION: ELECTRICAL CLOSET 1.14 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	VANITY RECEPT.	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	HWCP-2	15 A	1			360	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	EF-14-5	15 A	1					200	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	360 VA	3 A
05 EQUIPMENT (NEC 430.24)	360 VA	100.00%	360 VA	PHASE C:	200 VA	2 A
06 FANS	200 VA	125.00%	250 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	560 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**610 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	2 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**2 A**	

PANEL: EC1C-PB-01

LOCATION: ELECTRICAL ROOM 1.57 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	360			1	20 A	RESTROOM 2.14 & 2.13 & HK 2.41 RECEPT.	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	360 VA	100.00%	360 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	360 VA	3 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	360 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**360 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	1 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**1 A**	

PANEL: EC1C-PB-02

LOCATION: ELECTRICAL ROOM 1.57 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	1080			1	20 A	REST ROOM RECEPTACLES	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	120/24V XFMR. FOR PLUMBING	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	1080 VA	100.00%	1080 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	1080 VA	9 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	1080 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**1080 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	3 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**3 A**	

PANEL: EC1D-PB-01

LOCATION: ELECTRICAL CLOS. 1.46 **MAINS RATING &...** 800 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 800 A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	120/24V PLUMBING XFMR. MEN'S RESTROOM	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	0 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**0 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: EC1D-PB-05

LOCATION: ELECTRICAL CLOS. 1.46 **MAINS RATING &...** 225 A **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 225A **MOUNTING:** SURFACE
VOLTAGE: 120/208 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: 10,000 **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	EAST PLUMBING	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	200	1	20 A	EF-5-3	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	1352			2	20 A	TWH-1	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	1352				36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

NOTES:

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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	1352 VA	13 A
05 EQUIPMENT (NEC 430.24)	2704 VA	100.00%	2704 VA	PHASE C:	1552 VA	15 A
06 FANS	200 VA	125.00%	250 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	2904 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**2954 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	8 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**8 A**	

PANEL: ECD1-EP-01

LOCATION: ELECTRICAL CLOS. 1.46 **MAINS RATING &...** 60 A MCB **ENCLOSURE:** NEMA 1
SUPPLY FROM: **BUS RATING:** 100A **MOUNTING:** SURFACE
VOLTAGE: 480/277 Wye, 3PH, 4W **NEUTRAL RATING:** 100.00% **CIRCUIT BREAKER...** BOLT-ON
INTERRUPTING: **PROVIDE:** NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	GROUND FLOOR EAST BATHROOMS EM....	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	EGRESS LIGHTING	20 A	1			30	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24

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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	30 VA	125.00%	38 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	30 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	30 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**38 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

GENERAL NOTES

A. EXISTING PANEL SCHEDULES ONLY INDICATE CIRCUITS MODIFIED PER POWER AND LIGHTING PLANS. REMAINING EXISTING CIRCUIT BREAKER(S) RATING AND LABEL ARE NOT SHOWN. 'SPARE CIRCUIT BREAKERS' , AIC RATING, AND LOAD INFORMATION SHOWN ON SCHEDULES ARE ONLY FOR REFERENCE UNLESS INDICATED OTHERWISE. EXISTING PANELBOARD AND CIRCUIT BREAKER RATINGS SHALL BE FIELD VERIFIED.

B. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANELBOARD AIC RATING.

MarmonMok
ARCHITECTURE

STATE OF TEXAS
DON M. DUPLAN
143444
LICENSED
PROFESSIONAL ENGINEER
06/06/2022

CNG ENGINEERING

CITY OF AUSTIN
PALMER EVENTS CENTER
PLUMBING & RESTROOM UPGRADE REBID
900 BARTON SPRINGS RD, AUSTIN, TX 78704

Drawn	AM/HG
Checked	DJ
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E801

PANEL: MER-EP-01

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	60 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	100A	MOUNTING:	SURFACE
VOLTAGE:	480/277 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:		PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	135	1	20 A	EGRESS LIGHTING	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24

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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	135 VA	125.00%	169 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	135 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	135 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**169 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: MER-EP-02

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	60 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	100A	MOUNTING:	SURFACE
VOLTAGE:	480/277 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:		PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24

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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	0 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**0 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: MER-PB-11

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	800 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	800 A	MOUNTING:	SURFACE
VOLTAGE:	120/208 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:	10,000	PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	1080					1	20 A	RESTROOM 2.24 & 2.25, HK 2.38 RECEPT.	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	1080 VA	100.00%	1080 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	1080 VA	9 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	1080 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**1080 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	3 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**3 A**	

PANEL: MER-PB-12

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	800 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	800 A	MOUNTING:	SURFACE
VOLTAGE:	120/208 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:	10,000	PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	N.E. PLUMBING FIXTURES	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	EF-5-2	20 A	1	200	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	200 VA	2 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	200 VA	125.00%	250 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	200 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**250 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	1 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**1 A**	

PANEL: MER-PB-13

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	800 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	800 A	MOUNTING:	SURFACE
VOLTAGE:	120/208 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:	10,000	PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	900					1	20 A	LOCKER RM / DRESS RM RECEPT.	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	540			1	20 A	DRESSING RM. VANITY RECEPT.	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	540	1	20 A	DRESSING RM. VANITY RECEPT.	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	DRESSING RM VANITY RECEPT.	20 A	1			720	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	DRESSING RM VANITY RECEPT.	20 A	1					540	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	MEN'S ROOM RECEPT.	20 A	1	540	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	WOMEN'S ROOM RECEPT.	20 A	1			540	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

NOTES:			
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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	4320 VA	100.00%	4320 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	1440 VA	12 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	1800 VA	15 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	1080 VA	9 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	4320 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**4320 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	12 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**12 A**	

PANEL: MER-PB-14

LOCATION:		MAINS RATING &...	400 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	400 A	MOUNTING:	SURFACE
VOLTAGE:	480/277 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:		PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30
31	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	32
33	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	34
35	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	36
37	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	38
39	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	40
41	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	42

NOTES:			
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[5]		REVISION:	CNG ENGINEERING, PLLC R3.0

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	0 VA	0.00%	0 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	0 VA	0 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	0 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**0 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	0 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**0 A**	

PANEL: MER-SP-01

LOCATION:	MAIN ELEC. RM. 2.18	MAINS RATING &...	400 A MCB	ENCLOSURE:	NEMA 1
SUPPLY FROM:		BUS RATING:	400 A	MOUNTING:	SURFACE
VOLTAGE:	480/277 Wye, 3PH, 4W	NEUTRAL RATING:	100.00%	CIRCUIT BREAKER...	BOLT-ON
		INTERRUPTING:		PROVIDE:	NEUTRAL BUS, GROUND BUS

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	2
3	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	4
5	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	6
7	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	8
9	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	10
11	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	12
13	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	14
15	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	16
17	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	18
19	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	20
21	2ND FL NE. RESTRMS LIGHTING	20 A	1			874	0			1	20 A	SPARE CIRCUIT BREAKER	22
23	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	24
25	SPARE CIRCUIT BREAKER	20 A	1	0	0					1	20 A	SPARE CIRCUIT BREAKER	26
27	SPARE CIRCUIT BREAKER	20 A	1			0	0			1	20 A	SPARE CIRCUIT BREAKER	28
29	SPARE CIRCUIT BREAKER	20 A	1					0	0	1	20 A	SPARE CIRCUIT BREAKER	30

NOTES:			
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LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS		
01 EXISTING LOAD (NEC 220.87)	0 VA	0.00%	0 VA		TOTAL CONNECTED	
02 RECEPTACLES (NEC 220.44)	0 VA	0.00%	0 VA		VA	A
03 INTERIOR LIGHTING (NEC T220.12)	854 VA	125.00%	1068 VA	PHASE A:	0 VA	0 A
04 EXTERIOR LIGHTING	0 VA	0.00%	0 VA	PHASE B:	874 VA	3 A
05 EQUIPMENT (NEC 430.24)	0 VA	0.00%	0 VA	PHASE C:	0 VA	0 A
06 FANS	0 VA	0.00%	0 VA			
07 SPACE HEATING (NEC 220.60)	0 VA	0.00%	0 VA			
08 SPACE COOLING (NEC 220.60)	0 VA	0.00%	0 VA			
09 KITCHEN EQUIPMENT (NEC 220.87)	0 VA	0.00%	0 VA	TOTAL CONNECTED LOAD:	874 VA	
10 ELEVATORS (NEC 620.14)	0 VA	0.00%	0 VA	TOTAL DEMAND LOAD:	**1087 VA**	
11 LARGEST MOTOR (NEC 220.50)	0 VA	0.00%	0 VA	TOTAL CONNECTED...	1 A	
12 FUTURE LOAD GROWTH	0 VA	0.00%	0 VA	TOTAL DEMAND CURRENT:	**1 A**	

GENERAL NOTES

A. EXISTING PANEL SCHEDULES ONLY INDICATE CIRCUITS MODIFIED PER POWER AND LIGHTING PLANS. REMAINING EXISTING CIRCUIT BREAKER(S) RATING AND LABEL ARE NOT SHOWN. 'SPARE CIRCUIT BREAKERS' , AIC RATING, AND LOAD INFORMATION SHOWN ON SCHEDULES ARE ONLY FOR REFERENCE UNLESS INDICATED OTHERWISE. EXISTING PANELBOARD AND CIRCUIT BREAKER RATINGS SHALL BE FIELD VERIFIED.

B. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING PANELBOARD AIC RATING.

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Drawn	AM/HG
Checked	DJ
Date	06/06/2022
Project No.	MM 20027 / CNG 0023-20
Revisions	

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

SHEET NO.
E802

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