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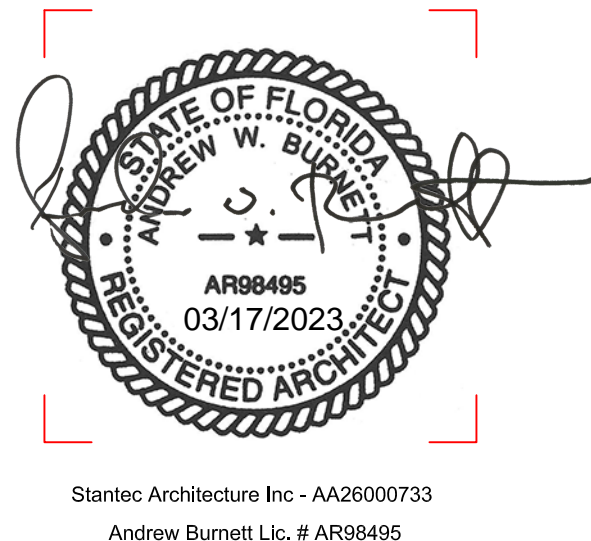
MORGAN LEVY PARK BATHROOM RENOVATION

5300 NW 102 Avenue
Doral, FL 33178

PERMIT PACKAGE

02/15/2023

STANTEC PROJECT # : 217100129



Stantec Architecture Inc - AA26000733
Andrew Burnett Lic. # AR98495

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NO.	DRAWING NAME	PERMIT SET

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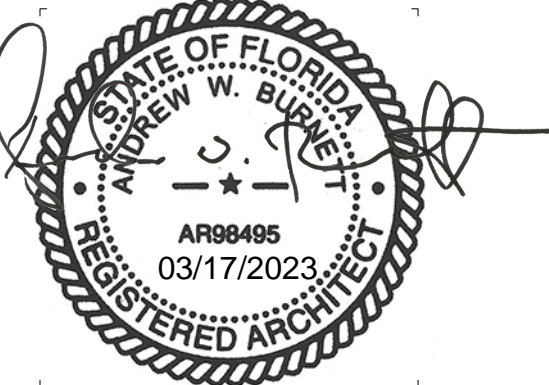


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Revision
YYYY.MM.DD

Issued
2023.02.15

PERMIT SET

CITY OF DORAL

MORGAN LEVY
RESTROOM RENOVATIONS
5300 NW 102ND AVENUE
Doral, FL 33178

Title
INDEX SHEET

Project No. 227100129
Revision
Scale As indicated
Drawing No.

G002

ABBREVIATIONS

8 - And ◁ - Angle @ - At C - Center Line Ø - Diameter ± - Tolerance Dimension	FIN - Finish FL - Flashing FLR - Floor FLU - Fluorescent FOC - Face of Concrete FOF - Face of Finish FOS - Face of Masonry FOS - Face of Stud FFRF - Fireproofing FSH - Fire Sprinkler Head FRT - Fire Retardant Treated FST - Firestoping FT - Foot or Feet ADA - The Americans with Disabilities Act ADBL - Adaptable (ADA Compliant) ADDL - Additional ADH - Adhesive ADJ - Adjustable ADUC - Adjacent AF - Access Floor AFF - Above Finished Floor AGGR - Aggregate AH - Air Handler AI - Alternate ANOD - Anodized AP - Access Panel APPROX - Approximately ARCH - Architect ASC - Above Suspended Ceiling ASPH - Asphalt	GA - Gauge GALV - Galvanized GB - Grab Bar GC - General Contractor GEN - Generator GFR - Glass Fiber Reinforced Concrete GFRX - Glass Fiber Reinforced Gypsum GL - Glass GLUM - Glass Masonry Unit GMMU - Glass Mesh Mount Unit GND - Ground GR - Grade GRL - Grille GRG - Grating GSNT - Gasket GR - Grout GV - Gravel GBS - Gypsum Wall Board BOT - Bottom CB - Brass CAB - Cabinet CB - Casing Bed CEM - Cement CEMTS - Cementitious CER - Ceramic CG - Corner Guard CHAN - Channel CHBD - Chalkboard CHFR - Changer CHR - Chrome CI - Cast Iron CJ - Construction Joint CK - Cork CLO - Ceiling CLO - Control Joint CLO - Closet CLR - Clear CLRM - Classroom CMPST - Composite CMU - Concrete Masonry Unit CNTR - Counter CO - Cased Opening COL - Column COMP - Compressible CONC - Concrete CONN - Connection CONSTR - Construction CONT - Continuous CONTR - Contractor COPP - Copper CPRS - Compressible or Compression CPT - Carpet CORR - Corridor CRS - Cold Rolled Steel LAV - Lavatory CSK - Casement CSMT - Casement CSWK - Casework CT - Ceramic Tile CYL - Cylinder DBL - Double DD - Deck Drain DEMO - Demolition DEPT - Department DF - Drinking Fountain DIA - Diameter DIM - Dimension DISP - Dispenser DIV - Division DNFP - Dampproofing DN - Down DO - Ditto DOP - Door Opening DR - Door DS - Downspout DSP - Dry Standpipe DST - Door Stop DTL - Detail DWG - Drawing DWR - Drawer E - East EA - East Bolt EJ - Expansion Joint EL - Elevation ELAST - Elastomeric ELEC - Electrical EMER - Emergency ENCL - Enclosure ENGR - Engineer ENTR - Entrance EOS - Emergency Overflow scupper EP - Electrical Panel EPRM - Ethylene Propylene Diene Monomer EPRF - Explosion Proof EQ - Equal EQUIP - Equipment ESCAL - Escalator ESMT - Eastment EST - Engineered Stone ETR - Existing to Remain EW - Each Way EWC - Electric Water Cooler EX - EXIST - Existing EXC - Excavate EXH - Exhaust EXP - Expansion EXT - Exterior EXIST - Existing F/F - Face to Face FA - Fire Alarm FACP - Fire Alarm Control Panel FB - Flat Bar FCD - Floor Clean Out FD - Floor Drain FDC - Fire Department Connection FDN - Foundation FE - Fire Extinguisher FEC - Fire Extinguisher Cabinet FF - Fabric Flashing FGL - Fiberglass FHC - Fire Hose Cabinet FHP - Full Height Partition FHY - Fire Hydrant	P&S - Power & Signal PAR - Parallel PB - Particle Board PC - Precast PD - Plaster Drain PERF - Perforated PERIM - Perimeter PERP - Perpendicular PL - Plate PLAM - Plastic Laminate PLAS - Plaster PLBG - Plumbing PLYWD - Plywood PM - Pressed Metal PNEU - Pneumatic PTG - Fitting POL - Polished POLY - Polyethylene PR - Pair PRCST - Precast PRFAB - Prefabricated PRFIN - Prefinished PT - Pressure Treated PVG - Paving PTN - Partition PVC - Polyvinyl Chloride PVG - Paving QT - Quarry Tile QTY - Quantity QUAL - Quality R - Radius or (Stair) Risers RAD - Radiator RBR - Rubber RCP - Reflected Ceiling Panel RD - Roof Drain CSRT - Gasket REF - Reference REFR - Refrigerator REG - Register REIN - Reinforced or Reinforcing REM - Removable REQD - Required REQS - Requirements RESL - Resilient RF - Resilient Flooring RFG - Roofing RH - Right Hand RHR - Right Hand Reverse RLG - Railing RMDL - Recessed RO - Rough Opening RORZ - Horizontal RW - Roof Vent RWL - Rain Water Leader HVAC - Heat, Ventilation & Air Conditioning S - South SC - Solid Core SAFB - Sound Attenuation Fiber Blanket SCHED - Schedule SCR - Screw SCRN - Screen SDT - Slat Disintegrative Tile SECT - Section SF - Square Foot or Feet SIN - Shower SHT - Sheet SHTG - Sheathing SHV - Shelving SIM - Similar SK - Sink SLV - Sleeve SM - Sheet Metal SP - Spray Particle Paint SPEC - Specifications SQ - Square SS - Stainless Steel SSF - Solid Surface SLK - Service Sink LAV - Lavatory STA - Station STAG - Stagger STC - Sound Transmission Class STD - Standard STG - Storage STL - Steel STN - Stone STR - Structural SUSP - Suspended SYM - Symbol SYM - Symmetrical SVF - Sheet Vinyl Flooring LAV - Lavatory SYS - System T - Treads (Stairs) T&B - Top and Bottom T&B - Tongue and Groove TBD - To Be Determined TBM - Top of Beam TC - Top of Concrete TDC - Trench Drain TDO - Thermostat Decorative Overlay TEL - Telephone TEMP - Temporary TERR - Terrace TF - Top of Floor TFF - Top of Finished Floor THK - Thickness THRS - Threshold THRU - Through TKBD - Trackboard TMPD - Tempered TO - Top Of TOC - Top Of Concrete TOF - Top of Footing TOL - Tolerance TOM - Top Of Masonry TOP - Top of Pavement TOS - Top Of Steel TOSL - Top of Slab TOW - Top Of Wall TPO - Thermoplastic-Polyolefin Roofing TRANS - Translucent TV - Television TYP - Typical UL - Underwriters Laboratory UNEX - Unexcavated UNFN - Unfinished UON - Unless Otherwise Noted UPS - Uninterruptible Power Supply UR - Urinal UV - Ultraviolet VAC - Vacuum VB - Vapor Barrier or Vinyl Base VCT - Vinyl Composition Tile VER - Verify VERT - Vertical VEST - Vestibule VIF - Contractor to Verify In Field VNR - Veneer VR - Vapor Retarder VWG - Vinyl Wall Covering W - West W - With WO - Without WC - Water Closet WD - Wood WGL - Wired Glass WLD - Welded WP - Working Point WSC - Wainscot WT - Weight WTH - Width WTPRF - Waterproofing WWF - Welded Wire Fabric
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CODE NOTES

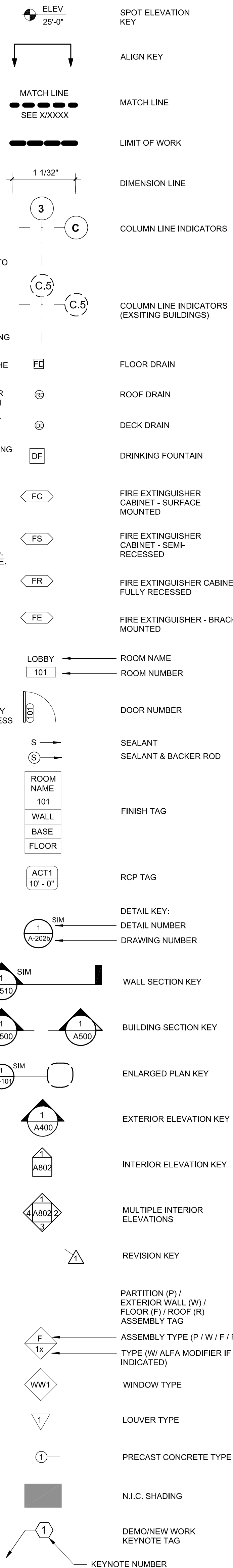
1. DEVELOPMENT TO MEET ACCESSIBILITY REQUIREMENTS FLORIDA ACCESSIBILITY CODE 2020, AS APPLICABLE:

SECTION 206 - ACCESSIBLE ROUTES
SECTION 206.2.1 - SITE ARRIVAL POINTS
SECTION 206.2.8 - EMPLOYEE WORK AREAS
SECTION 206.4 - ENTRANCES
207 - ACCESSIBLE MEANS OF EGRESS
215 - FIRE ALARM SYSTEMS
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GENERAL DEMOLITION NOTES

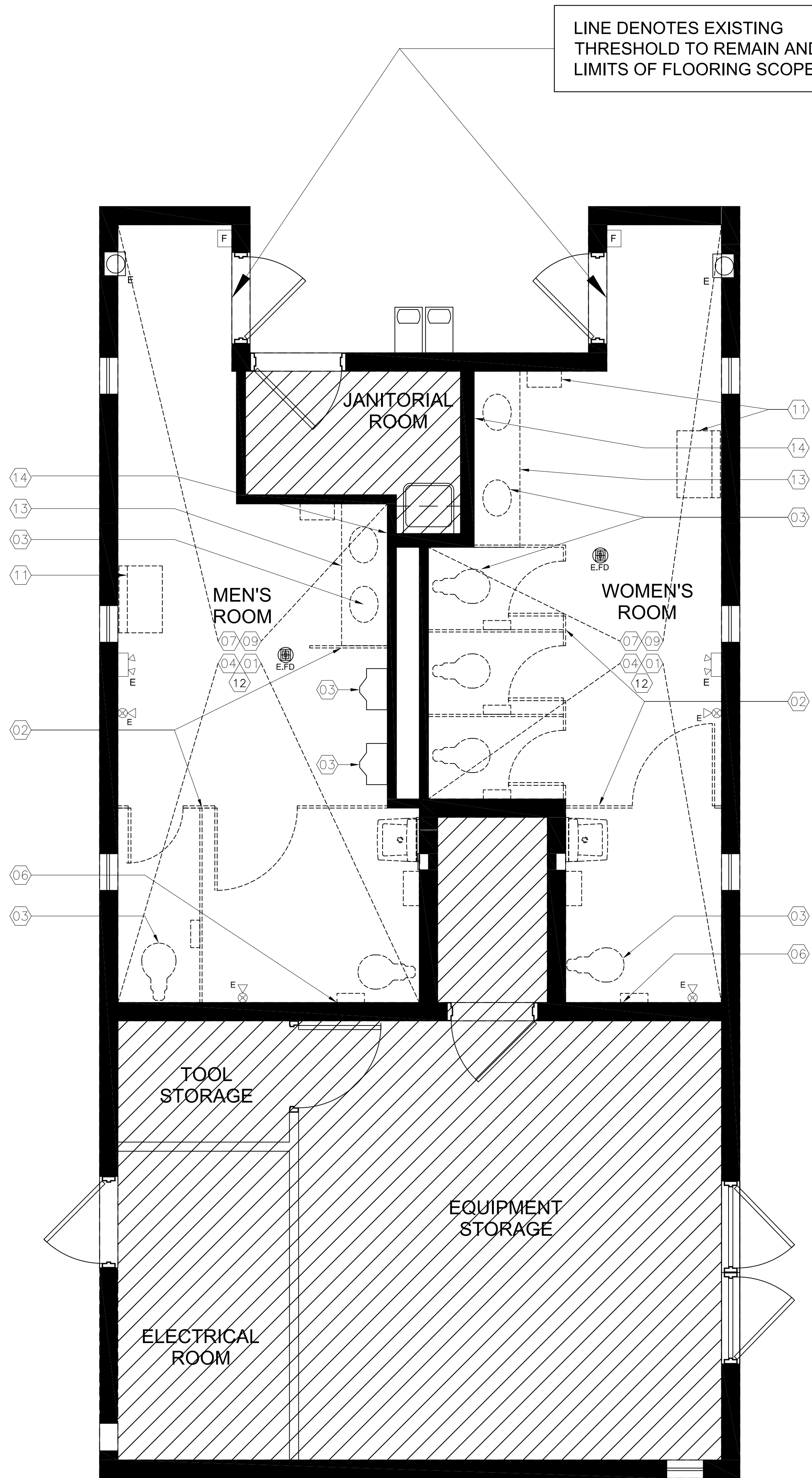
- THIS DRAWING IS ONLY TO ASSIST IN SHOWING THE SCOPE OF DEMOLITION WORK AND IS NOT INTENDED TO INDICATE ALL DEMOLITION. CONTRACTOR SHALL REMOVE ALL EXISTING ITEMS AS REQUIRED TO COMPLETE THE JOB.
- NOT ALL ITEMS TO BE DEMOLISHED ARE SHOWN ON THE PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING A WALK-THRU OF THE PROJECT PRIOR TO SUBMITTING A BID TO THE OWNER FOR IDENTIFYING POSSIBLE CRITICAL ITEMS, NOT OR INCORRECTLY ADDRESSED, WHICH REQUIRE REMOVAL/RELOCATION.
- PROVIDE SAFETY FEATURES DURING WORK COMPLYING WITH APPLICABLE CODES, RULES AND REGULATIONS HAVING JURISDICTION OF THE PROJECT.
- CUT, REMOVE, PATCH, ALTER AND REFINISH EXISTING CONSTRUCTION AS REQUIRED TO LEAVE WORK COMPLETE AND IN SATISFACTORY CONDITION. CLOSELY MATCH TEXTURE AND FINISH OF EXISTING ADJACENT SURFACE.
- CONTRACTOR SHALL TAKE ALL PRECAUTIONS REQUIRED TO PROTECT ALL UNDERGROUND OR OTHER CONCEALED UTILITIES. CONTRACTOR IS TO INSPECT CEILING AND CHASES TO ASSURE PROPER IDENTIFICATION OF UTILITIES PRIOR TO CUTTING, PATCHING, ETC. AS REQUIRED AND INDICATED ON M.E.P. DOCUMENTS.
- OPENINGS LEFT THROUGH RAFTER AND SMOKE PARTITIONS DUE TO REMOVAL OF DUCTWORK AND/OR CONDUITS SHALL BE CLOSED (BOTH SIDES) TO MAINTAIN THE FIRE RATING INTEGRITY OF PARTITION PER THE APPLICABLE UL LISTING.
- RENOVATION WORK SHALL ENTAIL INTERVENTIONS IN AREAS OUTSIDE OF THE IMMEDIATE SCOPE OF WORK, INCLUDING WORK ABOVE AND/OR BELOW THE FLOOR LEVEL WITHIN THE SCOPE. IT SHALL REQUIRE WORK INVOLVING REMOTE UTILITY LINES (ELECTRICAL, MECHANICAL, PLUMBING, COMMUNICATIONS, ETC.), ANY SUCH WORK SHALL BE ALL-INCLUSIVE, PROVIDE ALL STRUCTURES, UTILITIES, FINISHES AND EQUIPMENT REQUIRED TO RESTORE THE AREA TO FULLY OPERATIONAL CONDITIONS AND COMPLIANCE WITH RATING INTEGRITIES TO MEET THE OWNER'S APPROVAL. ALL WORK AS DESCRIBED IN THIS NOTE SHALL BE INCLUDED AS PART OF THE BASE CONTRACT PRICE.
- CONTRACTOR SHALL COORDINATE DEMOLITION WORK SCHEDULE WITH ADMINISTRATION IN ORDER TO PROVIDE SUFFICIENT ADVANCE NOTICE FOR THE BEGINNING OF WORK IN EACH EXISTING AREA OR FLOOR LEVEL.
- PATCH AND REPAIR ALL EXISTING SURFACES DAMAGED BY DEMOLITION AND/OR INSTALLATION OF NEW WORK AND/OR UTILITIES. PROVIDE A FLUSH AND EVEN SURFACE AS REQUIRED TO MATCH ADJACENT SURFACES AND/OR RECEIVE NEW SCHEDULED FINISHES.
- ALL DEMOLITION WORK IS DENOTED BY BROKEN LINES. ANY DISCREPANCIES OR DOUBTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO COMMENCING WORK FOR CLARIFICATION.
- N/A
- CONCRETE SLAB SHALL BE INSPECTED BY THE CONTRACTOR TO ENSURE THE CURRENT STATE IS ACCEPTABLE TO RECEIVE NEW FLOOR FINISH OR IF GRINDING, SCRAPING, PATCHING, LEVELING COMPOUND, ETC WILL BE NEEDED TO ACCEPT NEW WORK. CONTRACTOR SHALL PROVIDE METHOD FOR A/E REVIEW IF APPLICABLE.
- ALL AREAS SCOPE FOR DEMOLITION WORK SHALL BE LEFT PREPARED TO RECEIVE NEW WORK. CONTRACTOR TO COORDINATE WITH NEW WORK PLANS
- ARCHITECTURAL DRAWINGS WILL IDENTIFY DEMOLITION OF CERTAIN ITEMS INVOLVING OTHER DISCIPLINES HOWEVER IT'S THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL OTHER CONSULTANT DRAWINGS (STRUCTURAL, CIVIL, LANDSCAPE, MEP'S, POOL, ETC) APPLICABLE TO THIS PROJECT TO IDENTIFY FULL SCOPE.
- ALL ITEMS NOTED TO BE DEMOLISHED SHALL INCLUDE ALL CORRESPONDING COMPONENTS AND ACCESSORIES TO ITS ENTIRETY.
- OWNER SHALL PROVIDE AN ASBESTOS SURVEY REPORT PERFORMED BY A CERTIFIED COMPANY PRIOR TO PROJECT COMMENCEMENT
- CONTRACTOR SHALL SALVAGE ALL EXISTING FURNITURE, EQUIPMENT, APPLIANCES, ETC. WITHIN DEMOLISHED SCOPE AND COORDINATE WITH OWNER FOR DISPOSAL.
- DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION
- PLUMBING FIXTURE NEW LOCATIONS WILL INVOLVE THE DEMOLITION OF THE EXISTING SLAB ON GRADE TO PROVIDE NEW PLUMBING TIE-INS. SIMILAR WILL APPLY TO NEW COLD & HOT WATER CONNECTIONS WHICH WILL INVOLVE THE DEMOLITION OF WALL FINISHES. CONTRACTOR SHALL PROVIDE A FIELD INSPECTION TO ASSESS THE EXTENT OF THE DEMOLITION AND INCLUDE IN OVERALL BID (SCOPE OF WORK).
- CONTRACTOR TO PROVIDE TEMPORARY CODE COMPLIANT BATHROOMS TO BE USED BY PARK DURING RENOVATION OF EXISTING BATHROOMS.

GENERAL LEGEND





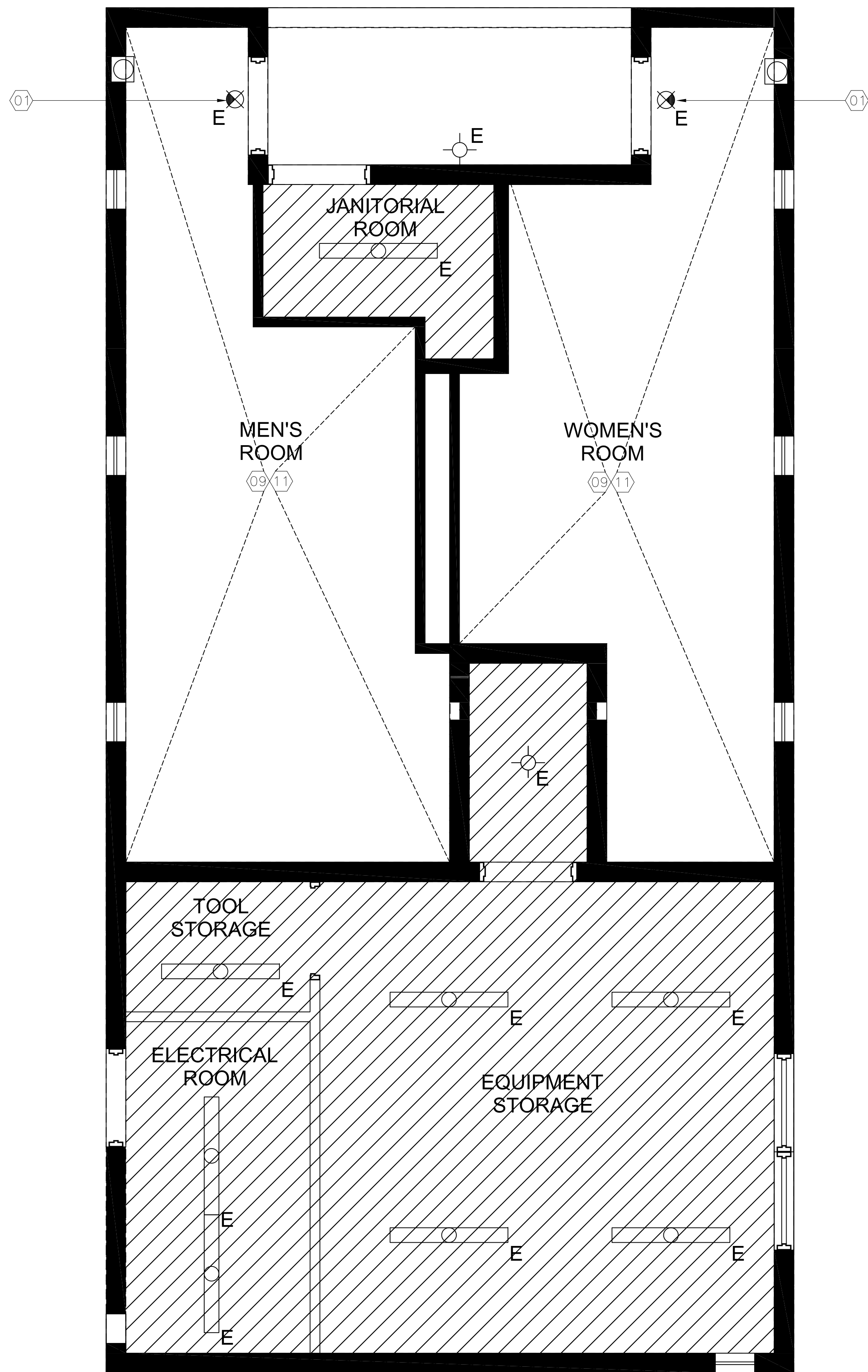
SCOPE OF WORK LOCATION MAP



11
AD100

DEMOLITION FLOOR PLAN

3/8"=1'-0"



13
AD100

DEMOLITION CEILING PLAN

3/8"=1'-0"

DEMOLITION PLAN LEGEND

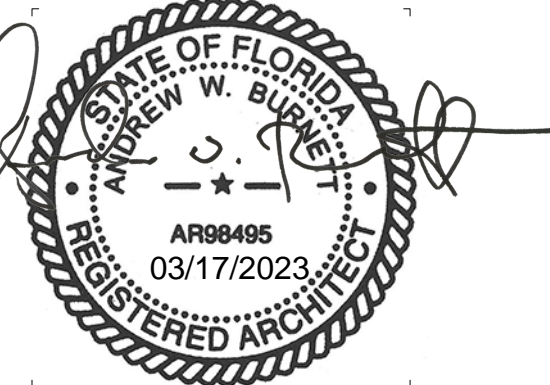
- EXISTING CONSTRUCTION TO REMAIN
- DEMOLITION
- NEW CONSTRUCTION
- EXISTING TO REMAIN FLOOR DRAIN
- EXISTING LIGHT FIXTURES TO REMAIN
- AREA NOT INCLUDED IN SCOPE
- EXISTING FIRE ALARM HORN STROBE
- EXISTING EXIT SIGN
- EXISTING EMERGENCY LIGHT
- EXISTING RECESSED FIRE EXTINGUISHER
- EXISTING FIRE ALARM PULL BOX

KEY NOTES DEMO

- EXISTING LIFE SAFETY DEVICES TO REMAIN INCLUDING FIRE EXTINGUISHER, SMOKE DETECTOR, AND EXIT SIGNS.
- REMOVE TOILET PARTITIONS & DOORS IN ITS ENTIRETY
- REMOVE PLUMBING FIXTURE. REFER TO PLUMBING PLANS FOR ADDITIONAL INFORMATION.
- ALL EXISTING PARTITIONS TO REMAIN AND BE REPAIRED AS NEEDED DUE TO REPLACEMENTS OF PLUMBING FIXTURES AND LIGHTING.
- REMOVE ALL EXISTING GRAB BARS. TYPICAL AT ALL LOCATIONS
- REMOVE EXISTING FLOOR FINISH IN ITS ENTIRETY INCLUDING ANY POTENTIAL LEVELING BUILD-UP TO LEAVE EXISTING SLAB ON GRADE EXPOSED AND PREPPED TO RECEIVE NEW FLOOR FINISH.
- REMOVE EXISTING MEP DEVICES WHICH SHALL INCLUDE BUT NOT BE LIMITED TO LIGHTS, MECH GRILLS, EXHAUST FANS, ETC. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
- ALL ACCESSORIES, FURNITURE, ART WORK, ETC SHALL BE REMOVED AND DISCUSSED WITH OWNER TO DETERMINE NEXT ACTION, INCLUDING BUT NOT LIMITED TO WALL ART, TRASH CANS, SHELVING CABINET, LOCKERS, ALL BATHROOM ACCESSORIES, BENCHES, TOWEL BINS, ETC.
- REMOVE VANITY COUNTER & BACKSPLASH IN ITS ENTIRETY
- REMOVE MIRROR & SCONCE. BACKER BOARD SHALL BE REPLACED IN ITS ENTIRETY TO ALLOW FOR NEW WORK.
- CEILING TO BE REPAIRED AS NEEDED IN ORDER TO INSTALL MECHANICAL REPLACEMENT
- EXISTING TILE FLOORING TO BE REMOVED

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Permit Comment (Rev 2) 7/7/2023

Revision YYYY.MM.DD

Issued 2023.02.15

PERMIT SET

CITY OF DORAL

MORGAN LEVY
RESTROOM RENOVATIONS
5300 NW 102ND AVENUE
Doral, FL 33178

Title
LOCATION MAP &
DEMOLITION FLOOR
AND CEILING PLANS

Project No.

227100129

Revision

Scale

As indicated

Drawing No.

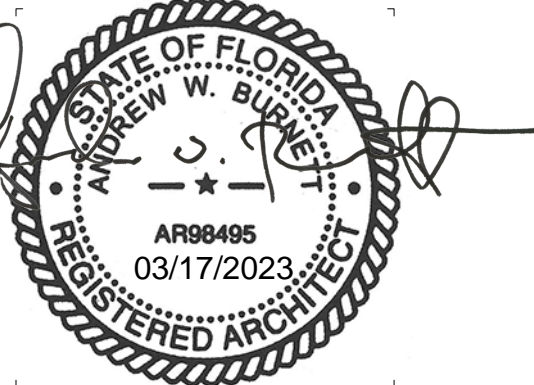
AD100

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Revision YYYYY.M.M.DD

Issued 2023.02.15

PERMIT SET

CITY OF DORAL

MORGAN LEVY
RESTROOM RENOVATIONS
5300 NW 102ND AVENUE
Doral, FL 33178

Title

NEW WORK PLANS

Project No.

227100129

Revision

Scale

As indicated

Drawing No.

AD200

FLOOR PLAN LEGEND

- EXISTING WALL AND/OR COLUMN TO REMAIN
- NEW MASONRY WALL
- NEW CONCRETE WALL
- NEW FLOOR DRAIN (E.) DENOTES EXISTING TO REMAIN
- AREA NOT INCLUDED IN SCOPE
- EXISTING FIRE ALARM HORN STROBE
- EXISTING EXIT SIGN
- EXISTING EMERGENCY LIGHT
- EXISTING RECESSED FIRE EXTINGUISHER
- EXISTING FIRE ALARM PULL BOX

GENERAL FLOOR PLAN NOTES

- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES WITH INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO START OF CONSTRUCTION.
- DIMENSIONS SHOWN AS VIF SHALL BE CONFIRMED PRIOR TO COMMENCING CONSTRUCTION. CONTACT ARCHITECT TO ENSURE PROGRAM ISNT BEING IMPACTED.
- REFER TO ELECT PLANS FOR LIGHT FIXTURE SCHEDULE.

RCP LEGEND

- NEW SURFACE MOUNTED LIGHT
- NEW WALL SCONCE
- CEILING TYPE TAG
- CEILING TYPE
- CEILING HEIGHT AFF
- EXISTING LIGHT FIXTURES TO REMAIN
- NEW EXHAUST SEE MECH. DWGS.
- NEW SUPPLY SEE MECH. DWGS.
- NEW RETURN SEE MECH. DWGS.

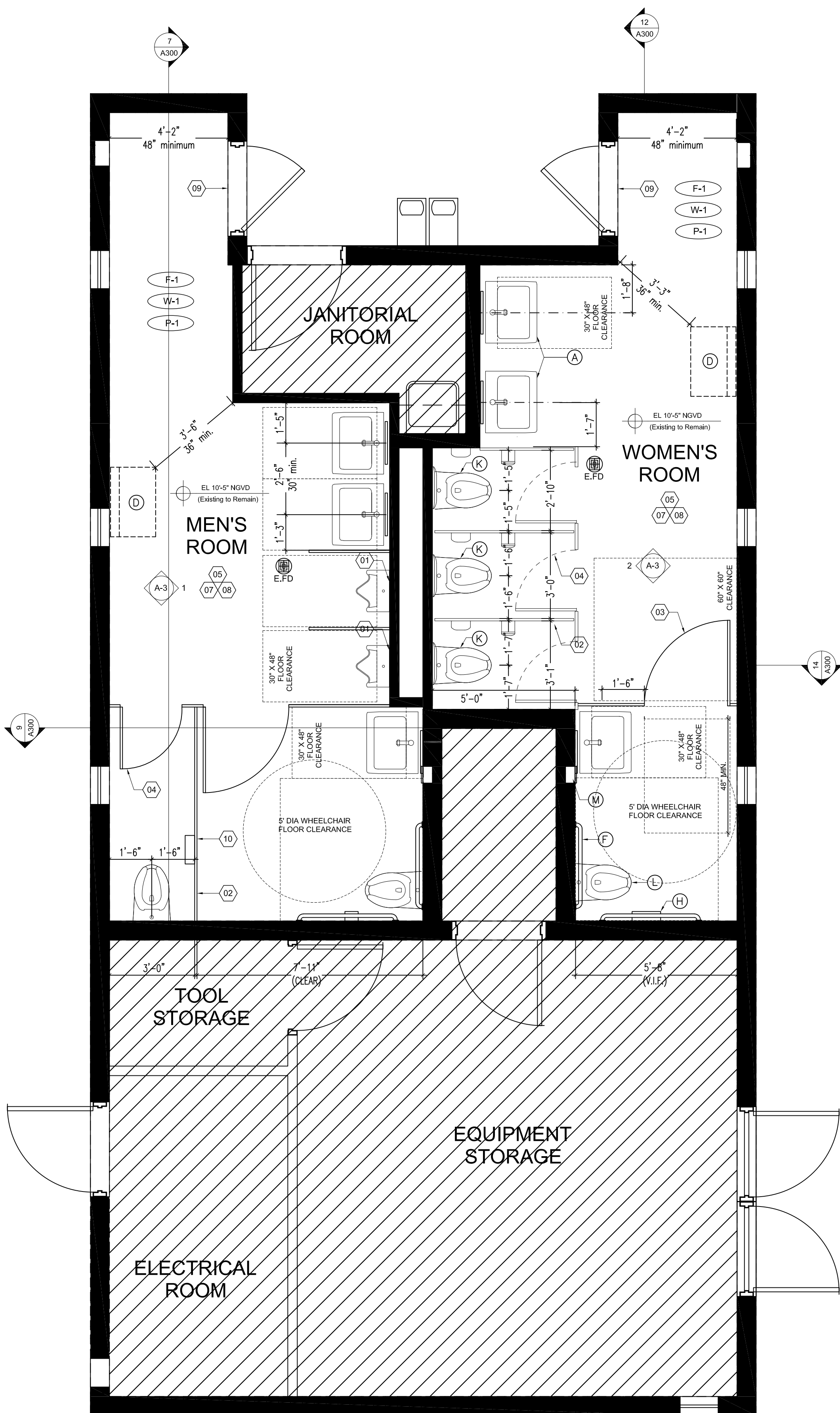
RCP SHEET NOTES

- ALL DIMENSIONS OF FIXTURES, DEVICES, ETC ARE TO CENTERLINE U.O.N.
- LIGHTS WITH NO DIMENSIONS ARE TO BE CENTERED WITHIN ROOM U.O.N.
- ALL MEP-FP UTILITIES OR DEVICE LOCATIONS THAT ARE IN CONFLICT WITH CEILING HEIGHTS OR ANY OTHER ARCHITECTURAL ELEMENTS/FEATURES SHALL BE COORDINATED AND BROUGHT TO THE ARCHITECTS' ATTENTION PRIOR TO INSTALLATION OR BUILDING.
- IT'S THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MEP-FP UTILITY SHOP DRAWINGS WITHIN CEILING SPACES THAT HAVE BEEN FULLY COORDINATED TO IMPEDE ANY CLASH THAT INHIBITS THE ARCHITECTURAL CEILING DESIGN. SHOP DRAWINGS SHALL BE REVIEWED BY THE DESIGN TEAM FOR FINAL APPROVAL.

KEY NOTES - FLOOR PLAN

- 01 URINAL CARRIER, CONTRACTOR TO FIELD VERIFY EXISTING BACK WALL TO CONFIRM THAT NEW CARRIER WILL FIT WITHIN FRAMED WALL. IF THERE IS CONFLICT CONTACT ARCHITECT PRIOR TO BUILDING.
- 02 TOILET PARTITION, FLOOR MOUNTED WITH OVERHEAD BRACE.
- 03 TOILET PARTITION ADA 34" WIDE DOOR LEAF. PROVIDE 32" CLEARANCE IN A 90 DEG OPEN POSITION. (NO SELF CLOSER)
- 04 STANDARD TOILET PARTITION 28" WIDE DOOR LEAF.
- 05 BACKER BOARDS REMOVED DURING DEMO SHALL BE REPLACED WITH NEW BACKER BOARDS AT AREAS RECEIVING WALL TILE FINISH AND ALL OTHER AREAS SHALL RECEIVE TYPE "X" MOLD AND WATER-RESISTANT GYPSUM WALL BOARD.
- 06 REPLACE FLOOR DRAIN COVER WITH NEW GRATE
- 07 ALL WALLS AND CEILING TO BE PAINTED
- 08 NEW EPOXY FLOORING TO BE INSTALLED THROUGHOUT BATHROOM INTERIOR
- 09 EXISTING DOOR THRESHOLD AND NEW FLOOR FINISH SHALL MAINTAIN AN ADA COMPLIANT CHANGE OF FLOOR LEVEL TRANSITION. REFER TO A050
- 10 MINIMUM 90" LENGTH TO BE FIELD VERIFIED

FINISHES	
MARK	DESCRIPTION
F-1	SHERWIN WILLIAMS EPOXY HIGH PERFORMANCE SW 7019 GAUNTLET GRAY
W-1	INTERIOR: RESTROOMS SHERWIN WILLIAMS, COLOR: 7010 DUCK WHITE FINISH: SCUFF TUFF ENAMEL FOR HIGH TRAFFIC, APPLICATION AS RECOMMENDED BY MANUFACTURER
P-1	INTERIOR: RESTROOMS PARTITIONS BRADLEY

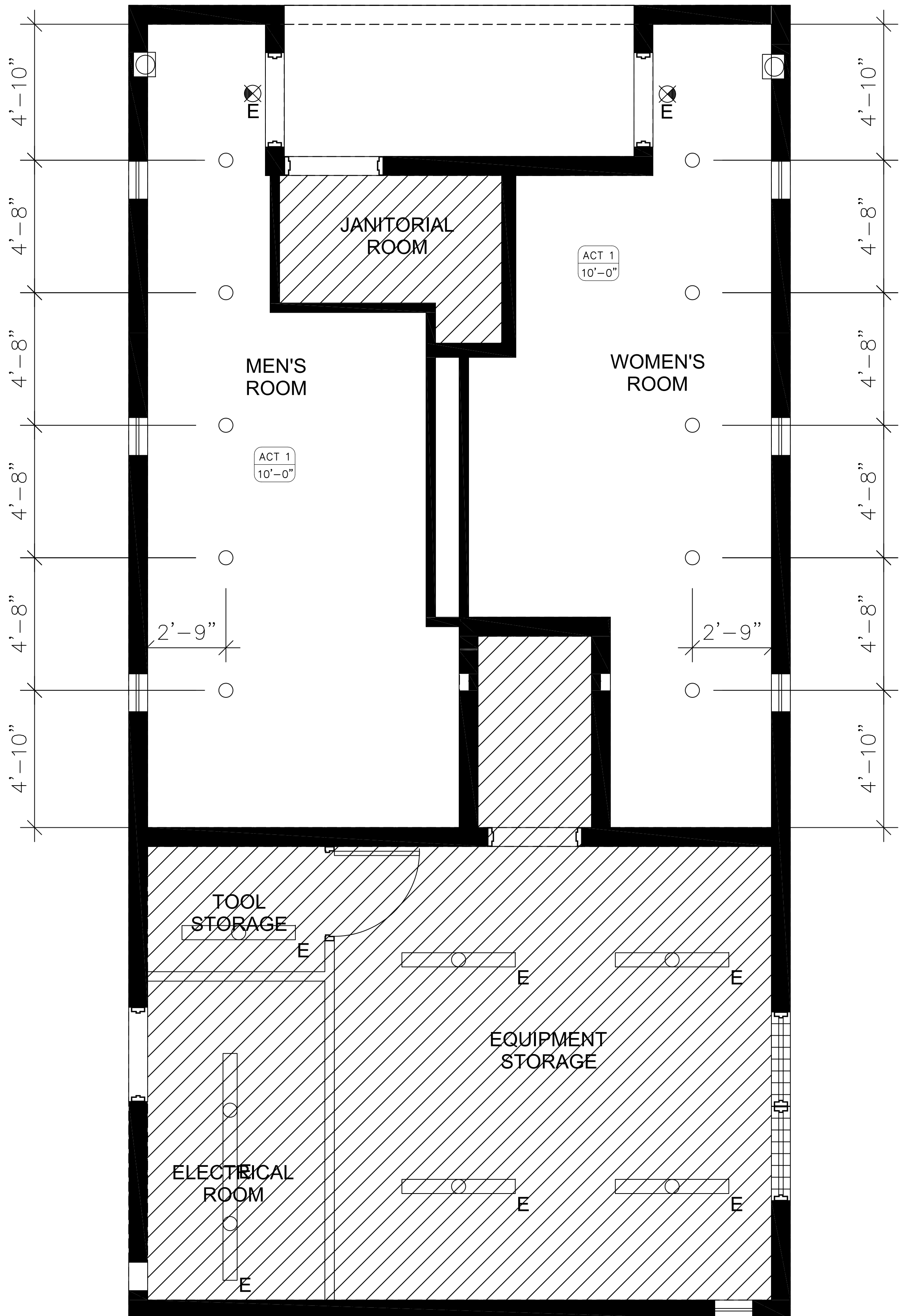


13

A200

NEW WORK FLOOR PLAN

3/8"=1'-0"



11

A200

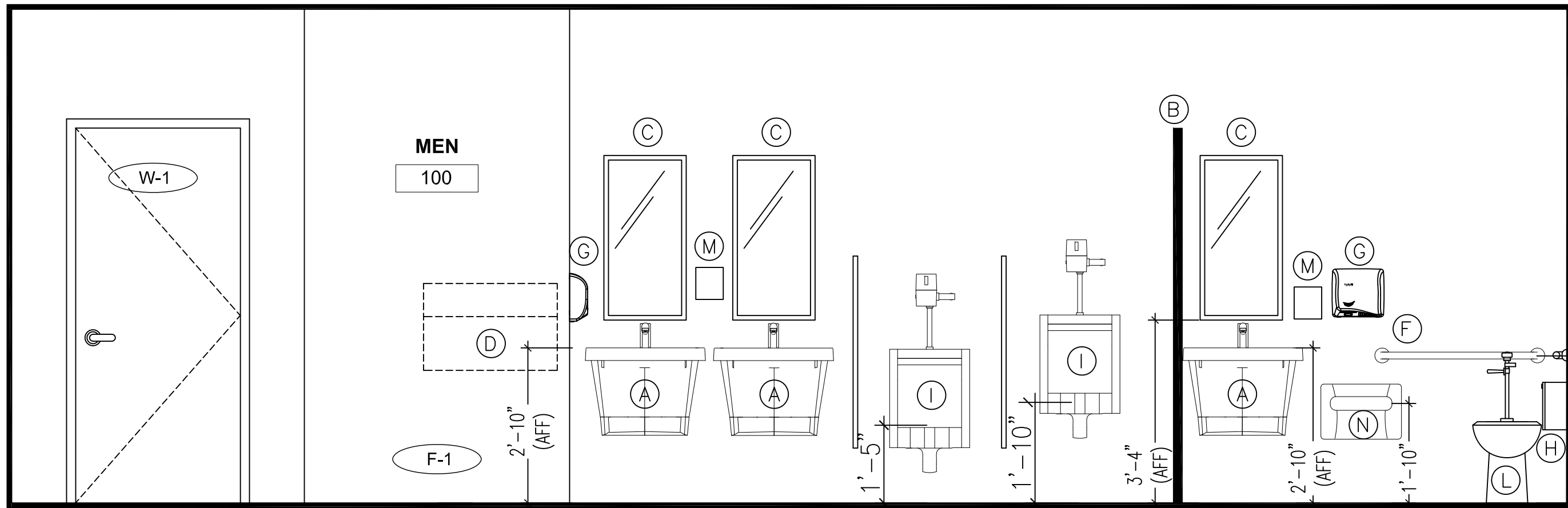
NEW WORK REFLECTED CEILING PLAN

3/8"=1'-0"

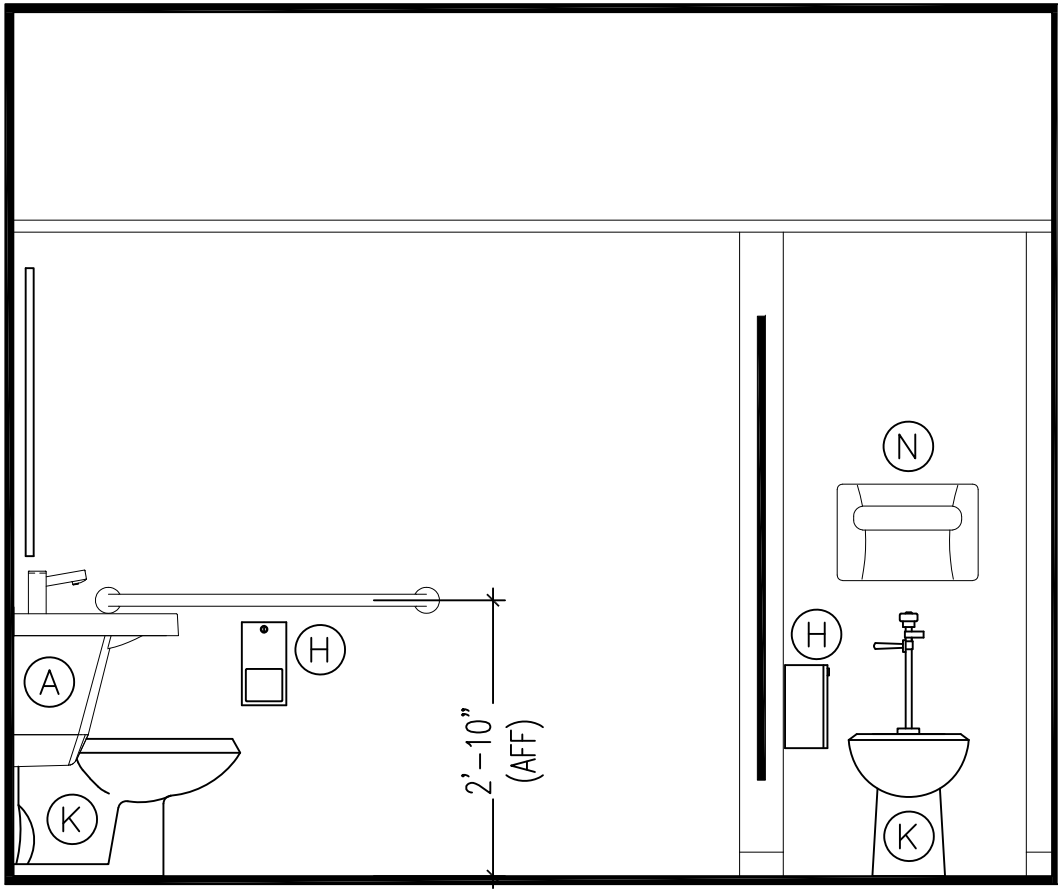
TYPICAL RESTROOM NOTES:

1. REFER TO A051 FOR ALL ADDITIONAL INFORMATION
2. BATHROOMS HAVE BEEN DESIGNED TO MEET THE FBC-ACCESSIBILITY 7TH EDITION. ALL CLEARANCES SHOWN MUST BE MAINTAINED AND FOLLOWED AS PER A051.
3. CONTRACTOR MUST NOTIFY ARCHITECT OF ANY CONFLICTS SHOWN IN THE FIELD PRIOR TO BUILDING.
4. ALL ADA TOILET PARTITIONS STALL DOORS SHALL "NOT" BE EQUIPPED WITH A SELF CLOSING DEVICE

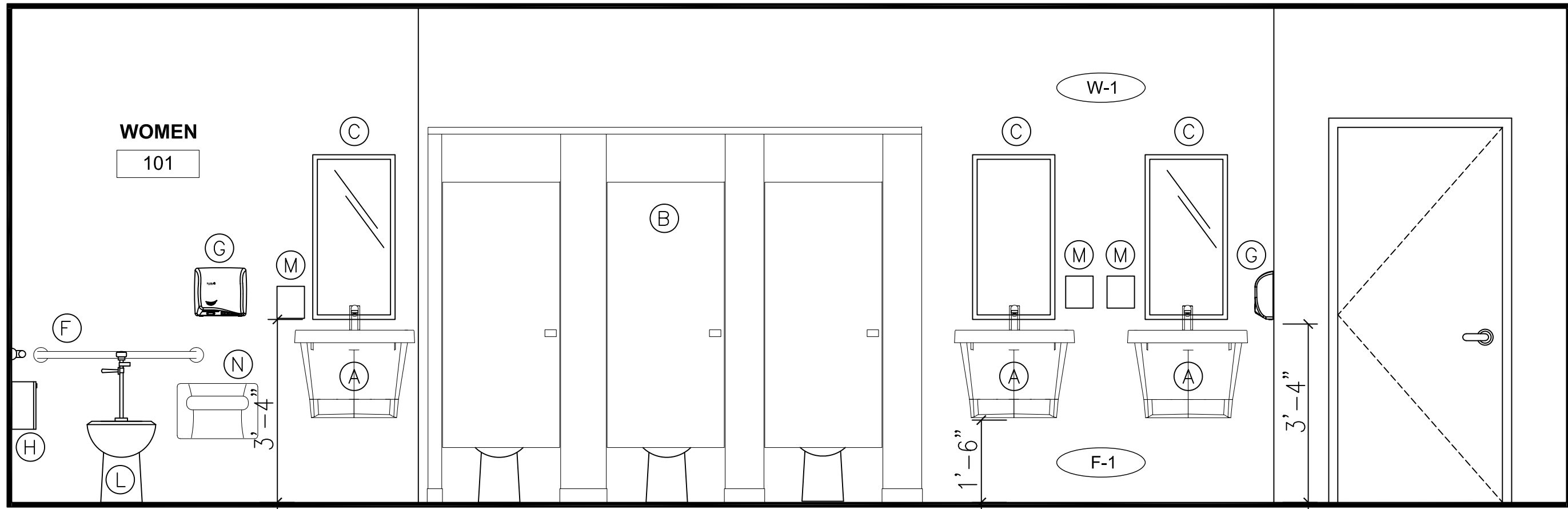
FIXTURES			
ITEM	DESCRIPTION	MANUFACTURE AND MODEL NO.	QTY
A	LAVATORY, SINGLE	BRADLEY EXPRESS LAVATORY SYSTEM MODEL TLX-1	6
B	RESTROOM PARTITIONS	"BRADLEY" BRADMAR SERIES 400 FLOOR MOUNTED CANYON GRAN M244	—
C	STAINLESS STEEL MIRROR, SATIN FINISH	"BRADLEY" BRADEX 780-1836 ANGLE FRAME MIRROR 18"x36"	7
D	BABY CHANGING STATION	"BRADLEY" BRADEX 963 GRAY WHITE SURFACE MOUNTED	2
E	42" STAINLESS STEEL GRAB BAR	"BRADLEY" BRADEX 001-42 STANDARD FINISH	2
F	36" STAINLESS STEEL GRAB BAR	"BRADLEY" BRADEX 001-36 STANDARD FINISH	2
G	HAND DRYER	"BRADLEY" HAND DRYER 2902-287300 STEEL EPOXY	4
H	TOILET TISSUE ROLL DISPENSER	"BRADLEY" BRADEX DUAL ROLL MODEL 5402	6
I	URINAL	AMER STAND WASHBROOK FLOWISE UNIVERSAL	2
J	LAVATORY, FAUCET	BRADLEY VERGE FAUCET, CRESITT SERIES S53-3100	6
K	TOILET	AMER STAND MADERA 15" FLUSHOMETER SYSTEM	4
L	TOILET - ADA COMPLIANT	AMER STAND MADERA 16 1/2" FLUSHOMETER SYSTEM	2
M	SOAP DISPENSER	"BRADLEY" BRADEX MODEL 6563	0
N	SEAT COVER DISPENSER	HIGH CAPACITY SURFACE MOUNTED MODEL 583	6
O	TOILET FLUSH VALVE	BATTERY-POWERED DIAPHRAGM-TYPE FLUSH VALVE	6



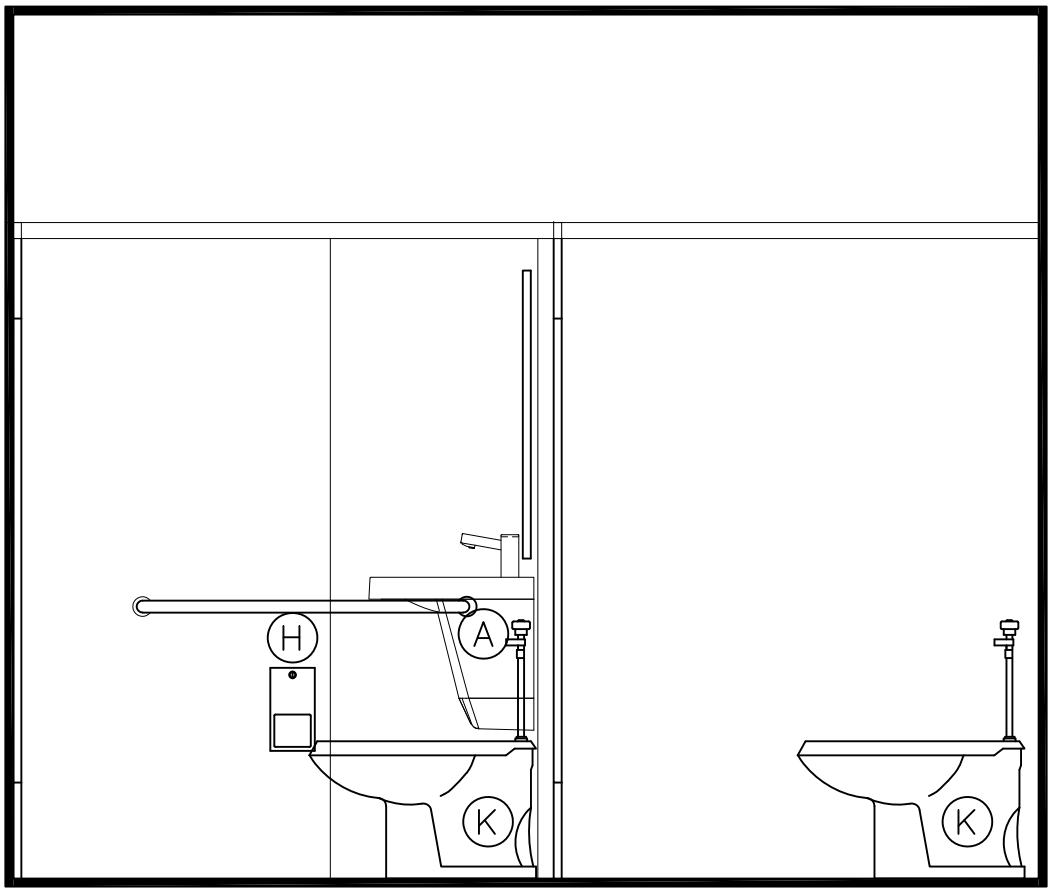
7 INTERIOR ELEVATION
A300 1/2"=1'-0"



9 INTERIOR ELEVATION
A300 1/2"=1'-0"



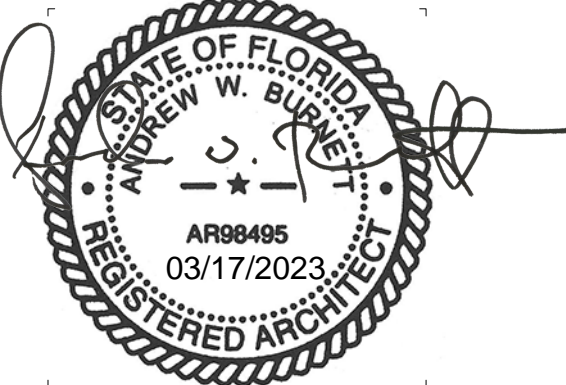
12 INTERIOR ELEVATION
A300 1/2"=1'-0"



14 INTERIOR ELEVATION
A300 1/2"=1'-0"

Stantec Architecture Inc. - AA26000733

Andrew Burnett Lic. # AR98495



Revision YYY.Y.M.D.D

Issued 2023.02.15

PERMIT SET

CITY OF DORAL

MORGAN LEVY
RESTROOM RENOVATIONS
5300 NW 102ND AVENUE
Doral, FL 33178

Title

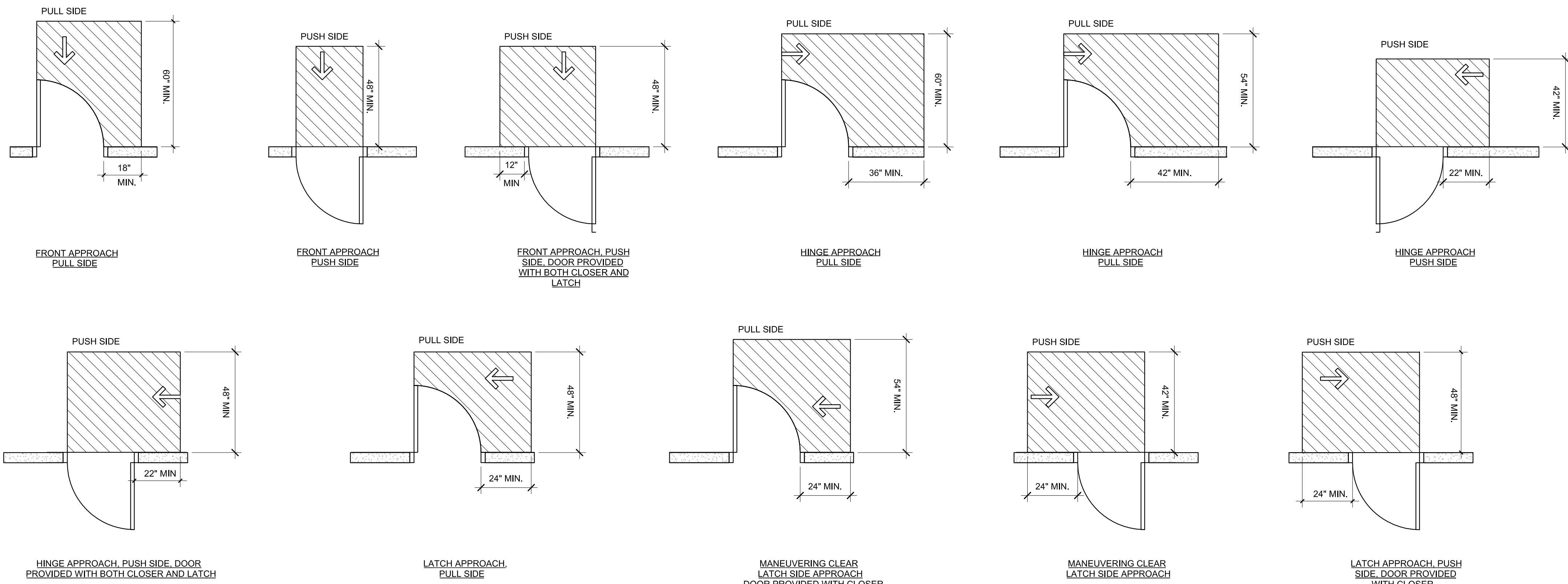
ELEVATIONS

Project No. 227100129
Scale As indicated
Revision Drawing No.

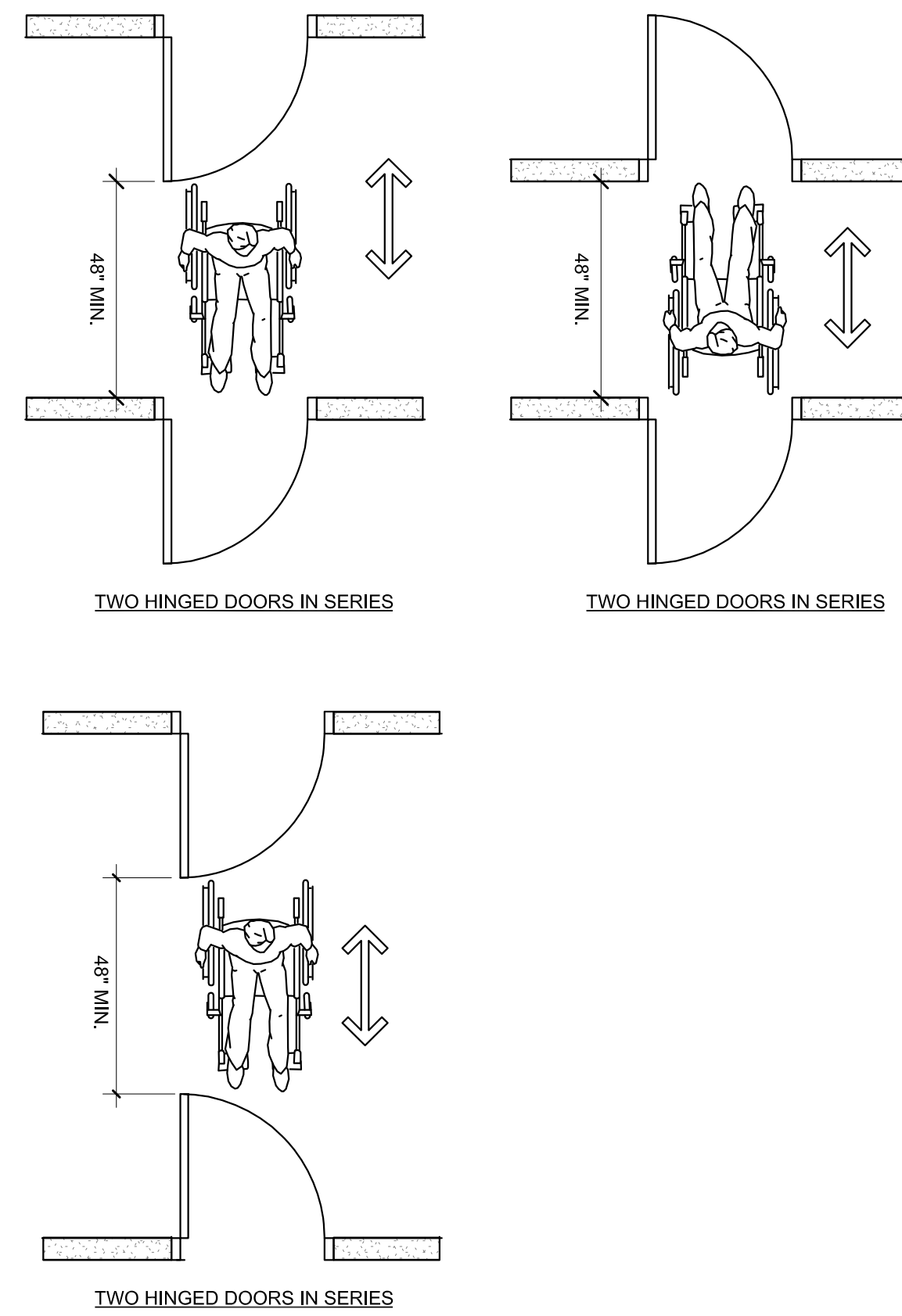
A300

MANEUVERING CLEARANCE AT DOORS

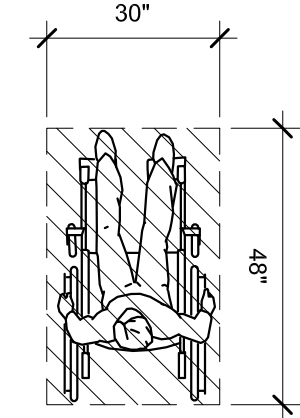
CODE REFERENCE: FBC - ACCESSIBILITY
SEVENTH EDITION CHAPTER 4,
SECTION 404.2.4



CODE REFERENCE: FBC - ACCESSIBILITY
SEVENTH EDITION CHAPTER 4,
SECTION 404.2.6

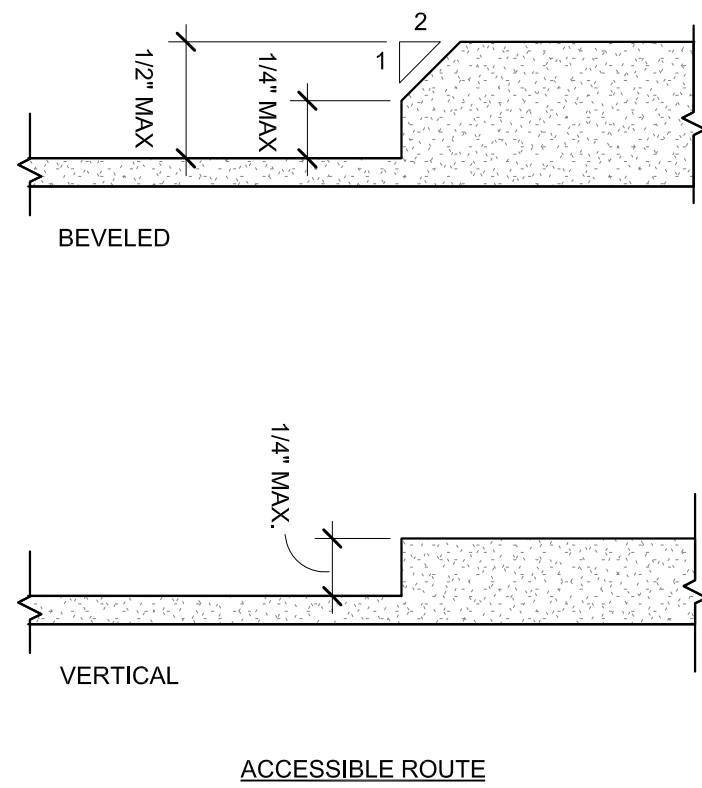


CODE REFERENCE: FBC - ACCESSIBILITY
SEVENTH EDITION
CHAPTER 3,
SECTION 305.3



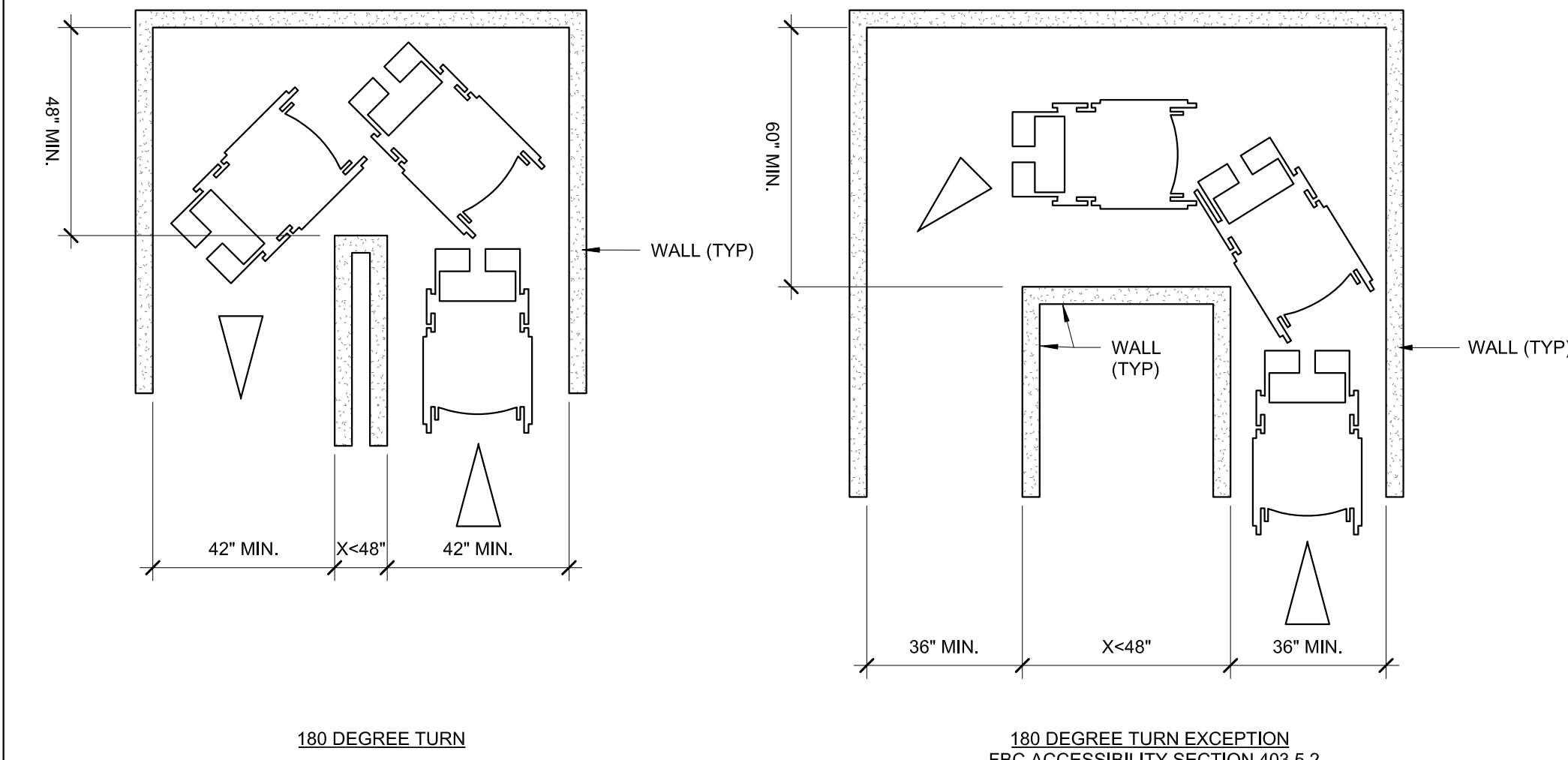
ACCESSIBLE ROUTE

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION,
CHAPTER 3, SECTION 303.2



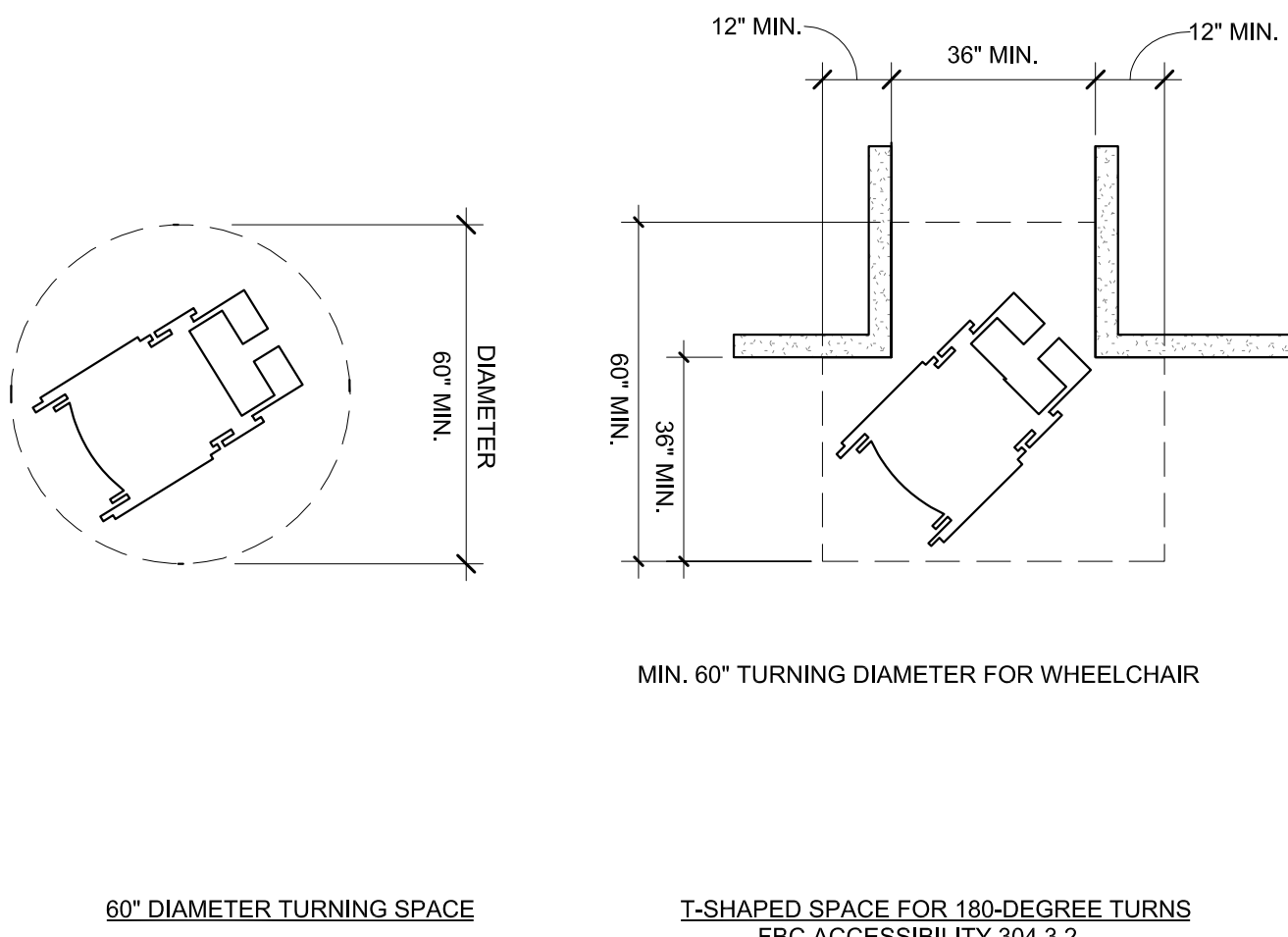
NOTE TO CONTRACTOR:
1. MAX. CHANGE OF FLOOR LEVEL ALLOWED IS 1/4" OR 1/2" FROM 1/4" TO 1/2" MAX.
2. CHANGE IN LEVEL ABOVE 1/2" SHOULD BE RAMPED

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION CHAPTER 4, SECTION 403.5.2



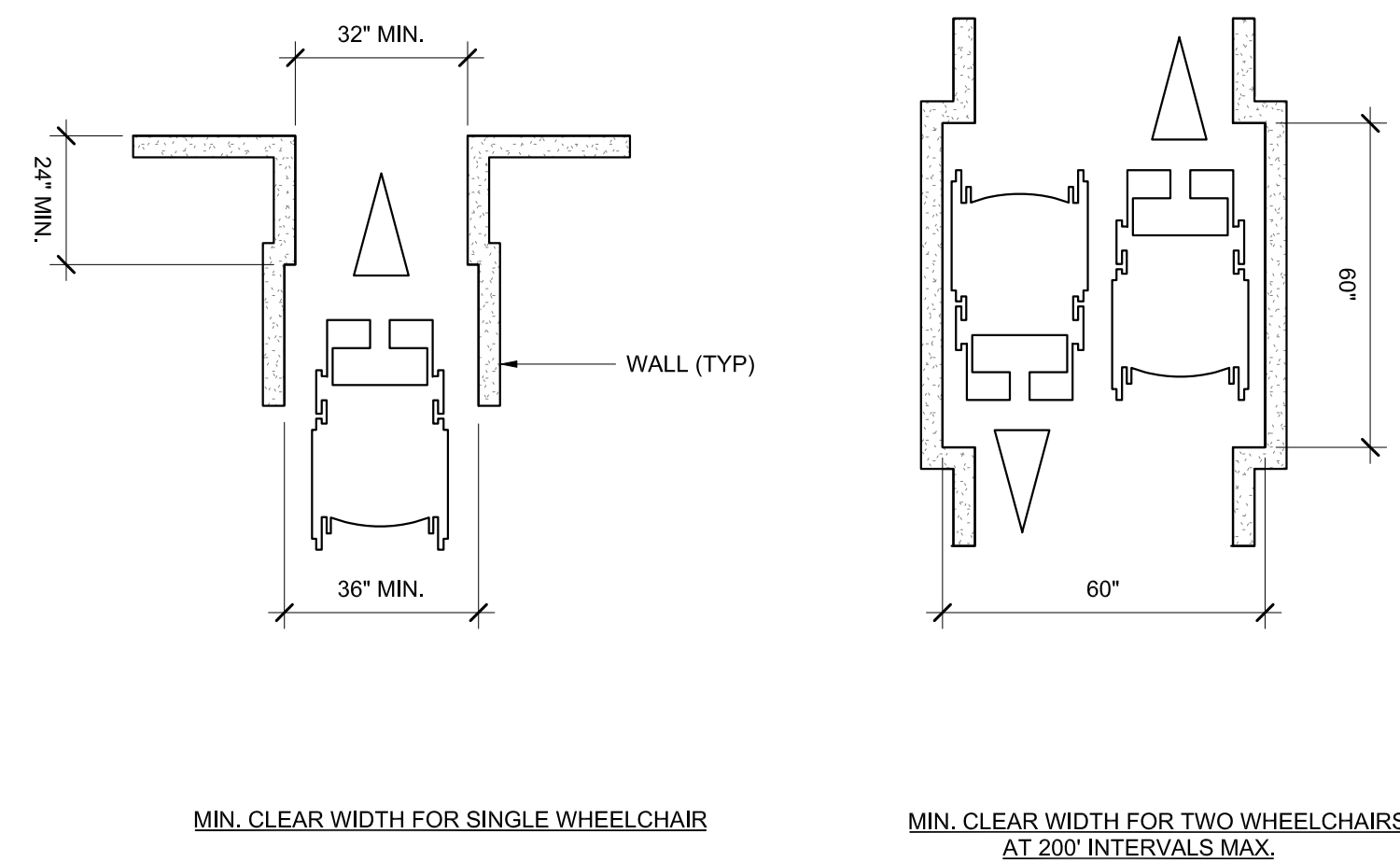
WHEEL CHAIR TURNING SPACE

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION CHAPTER 3,
SECTION 304.3.1



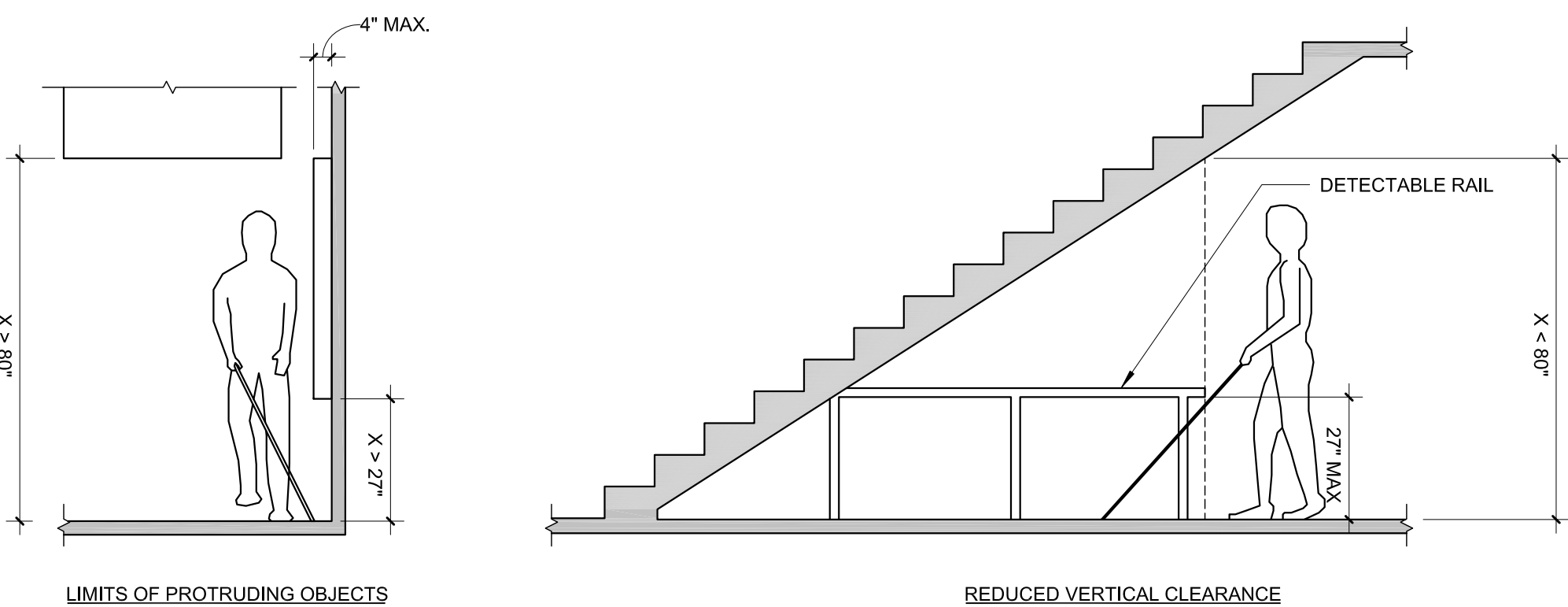
MINIMUM CLEAR WIDTH

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION CHAPTER 4,
SECTION 403.5.1 & 403.5.3



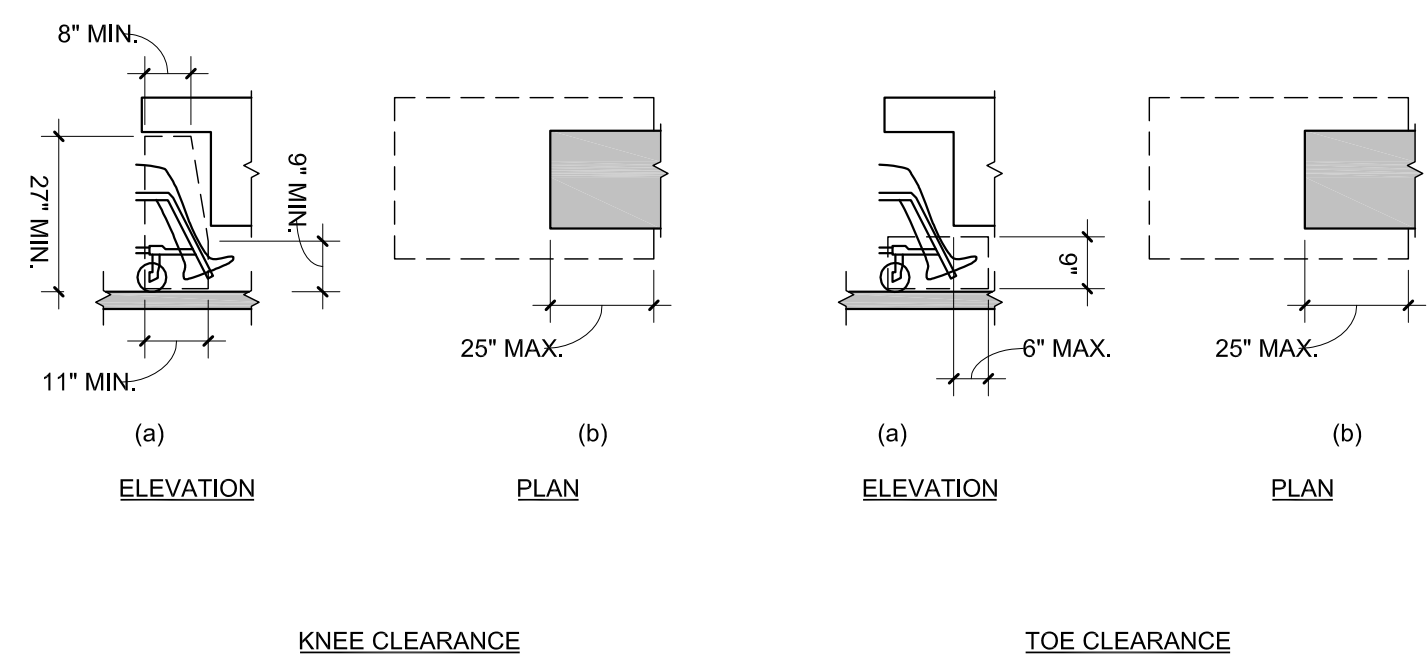
PROTRUDING OBJECTS

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION,
CHAPTER 3, SECTION 307



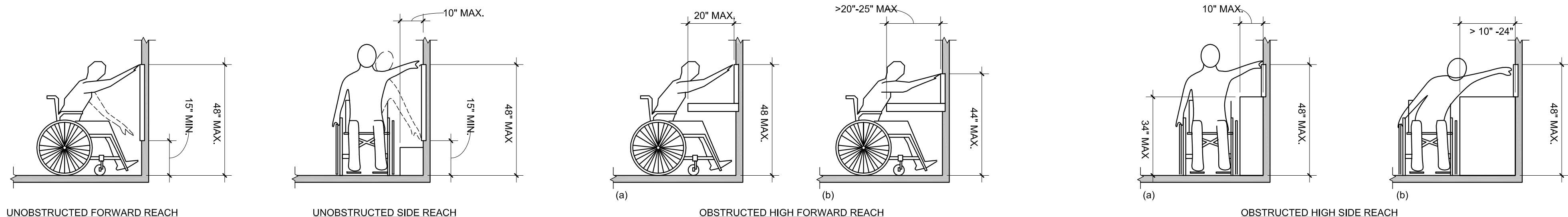
TOE AND KEE CLEARANCE

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION,
CHAPTER 3, SECTION 306



REACH RANGES

CODE REFERENCE: FBC - ACCESSIBILITY - SEVENTH EDITION,
CHAPTER 4, SECTION 308



GENERAL NOTES

MOUNTING HEIGHTS

- OPERABLE PARTS STATED UNDER FBC 2017 ACCESSIBILITY SECTION 205.1 INCLUDING ADVISORY SHALL COMPLY WITH SECTION 309.
- OPERABLE PARTS OF THE CONTROLS ARE TO BE LOCATED NO HIGHER THAN 48 INCHES AND NO LOWER THAN 15 INCHES TO CENTERLINE ABOVE THE FLOOR FINISH.
- THE REACH OVER AN OBSTRUCTION IN WHICH THE DEPTH EXCEEDS 20 INCHES AND MAXIMUM IS 25 INCHES THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM FOR A FORWARD APPROACH; OR 48 INCHES MAXIMUM FOR A SIDE APPROACH IN WHICH THE OBSTRUCTION IS NOT HIGHER THAN 34 INCHES AND NO DEEPER THAN 24 INCHES MAX.
- OBSTRUCTIONS SHALL NOT EXTEND OUT MORE THAN 25 INCHES FROM THE WALL IN WHICH AN ACCESSIBLE CONTROL IS LOCATED.

ACCESSIBILITY NOTES

- CHANGES IN LEVEL BETWEEN 1/4" HIGH MAX. VERTICALLY AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 PER FLORIDA ACCESSIBILITY CODE SECTION 303.
- ACCESSIBILITY ROUTE FROM R.O.W. MINIMUM 60".
- THE LAYOUT AND DESIGN OF SPACES DEPICTED, ON PLANS SHALL COMPLY WITH 2017 FLORIDA ACCESSIBILITY CODE FOR BUILDING SEVENTH EDITION.
- HANDICAP TOILET FLUSH CONTROL TO BE LOCATED ON WIDE SIDE AREA OF STALL.
- WIPER ALL EXPOSED PIPES UNDER LAVATORY WITH INSULATED PIPE PROTECTION COVERS TO PROTECT AGAINST CONTACT.
- ALL HANDLES TO BE LEVER HANDLES

DOOR HARDWARE AND HANDLES NOTES:

- DOOR HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST AS PER 2017 FLORIDA ACCESSIBILITY CODE SECTION 309.4
- THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.
- LEVER OPERATED MECHANISMS, PUSH TYPE MECHANISMS, AND UNSHAPED HANDLES ARE ACCEPTABLE DESIGNS.
- WHEN SLIDING DOORS ARE IN THE FULLY OPEN POSITION, THE OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
- HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED BETWEEN 34 INCHES MINIMUM AND 48" MAXIMUM ABOVE THE FINISH FLOOR.



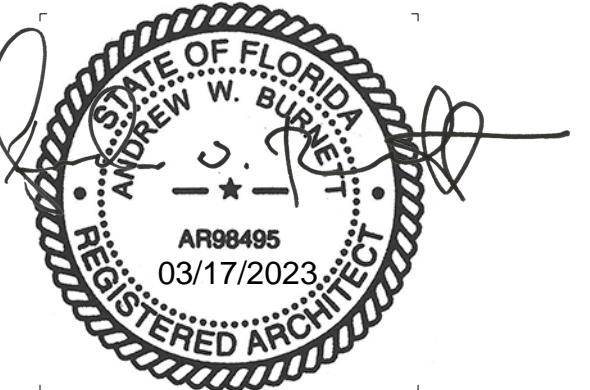
Stantec Architecture Inc.
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Revision YYYMMDD

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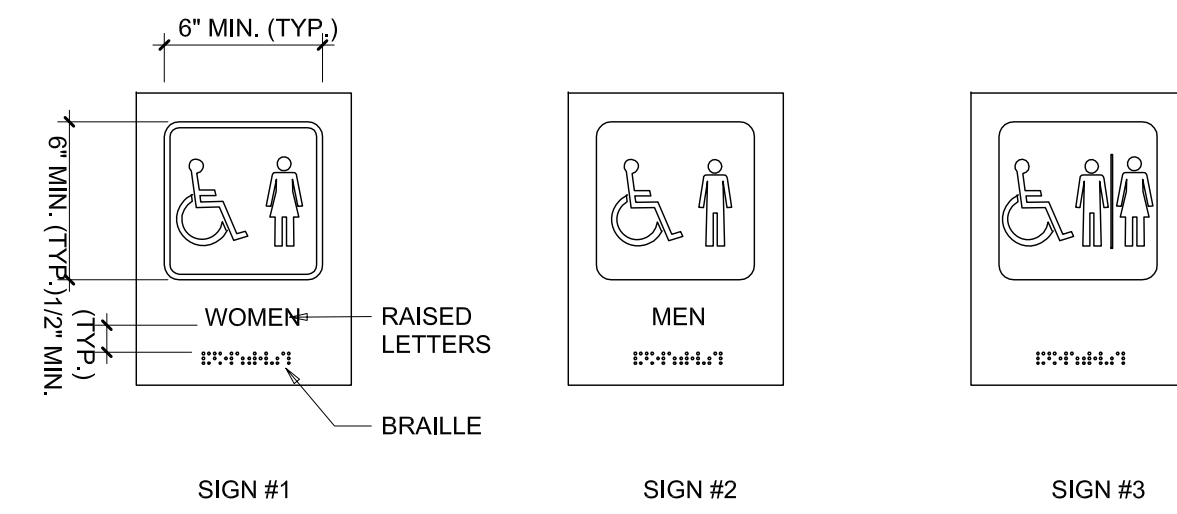
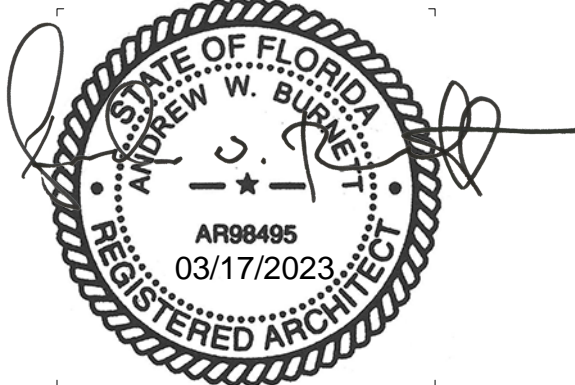
CITY OF DORAL

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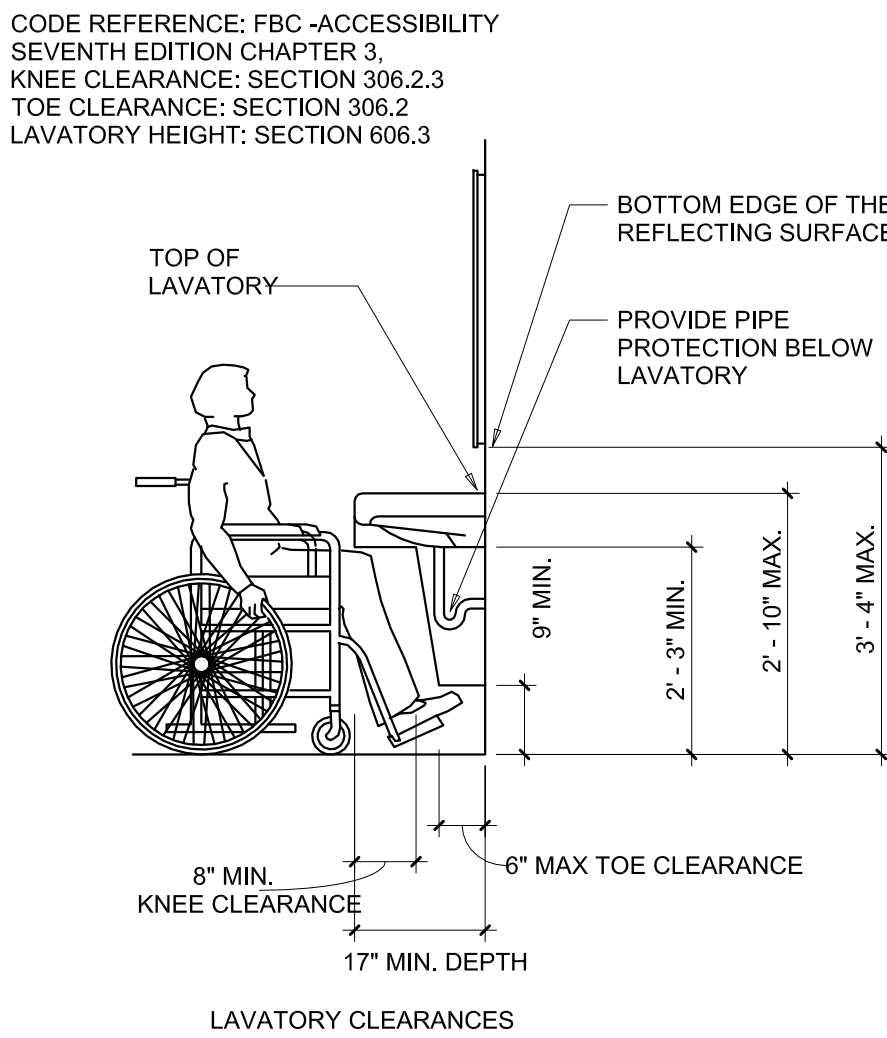
Title
ADA CODE REQ.
ACCESSIBLE ROUTE AND
CLEARANCES

Project No. 227100129
Revision
Scale As indicated
Drawing No.

A050



NOTE:
1. ALL LETTERS AND NUMERALS ARE TO BE RAISED 1/32 INCHES, UPPER CASE, SANS SERIF OR SIMPLE SERIF AT LEAST 5/8" HIGH BUT NO HIGHER THAN 2".
BRAILLE IS TO BE GRADE 2.
2. PROVIDE & INSTALL BY G.C. TYPICAL AT ALL RESTROOMS.
3. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM A.F.F. MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE F.F. MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
4. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE.
5. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" (455 MM) MIN. BY 18" (455 MM) MIN. CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

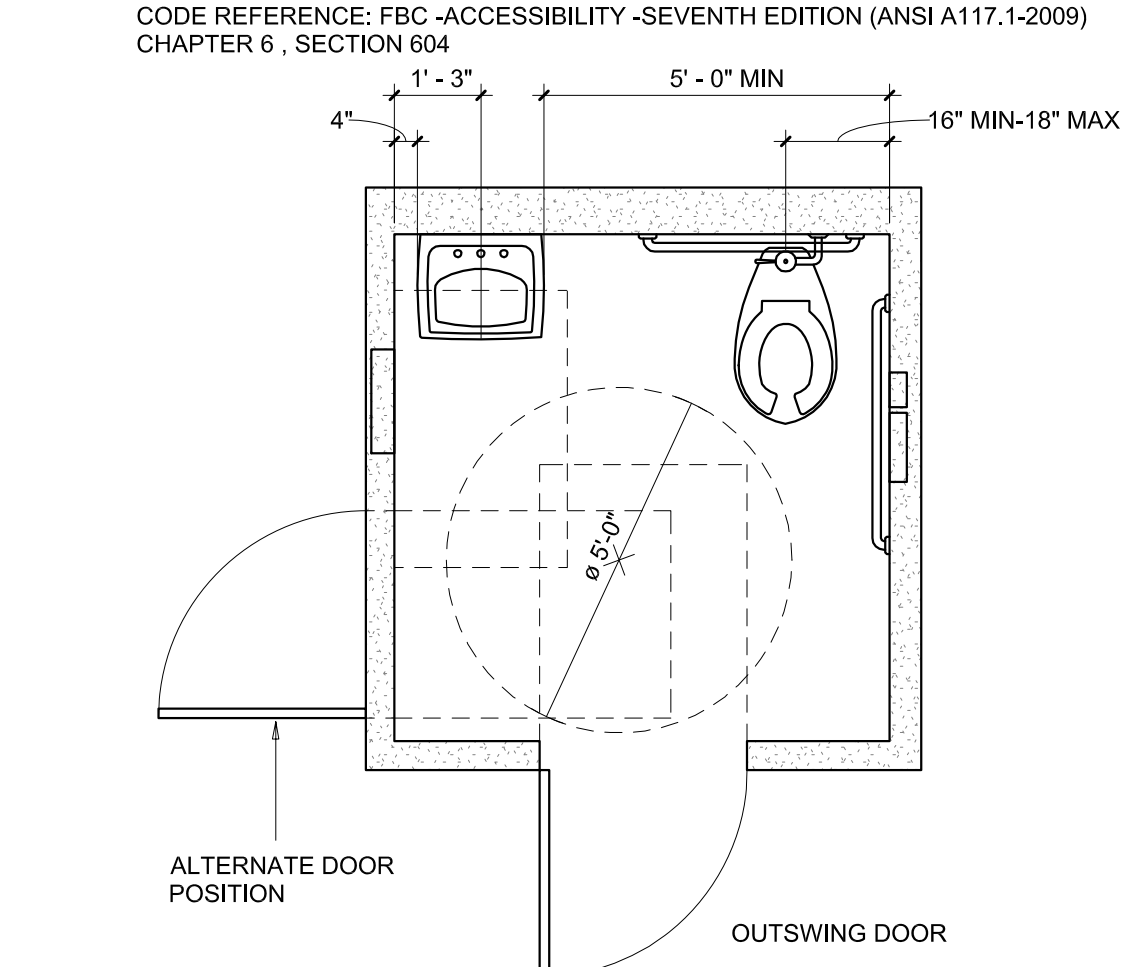


NOTE:
1. HEIGHTS ARE TO BE CONSIDERED A.F.F.

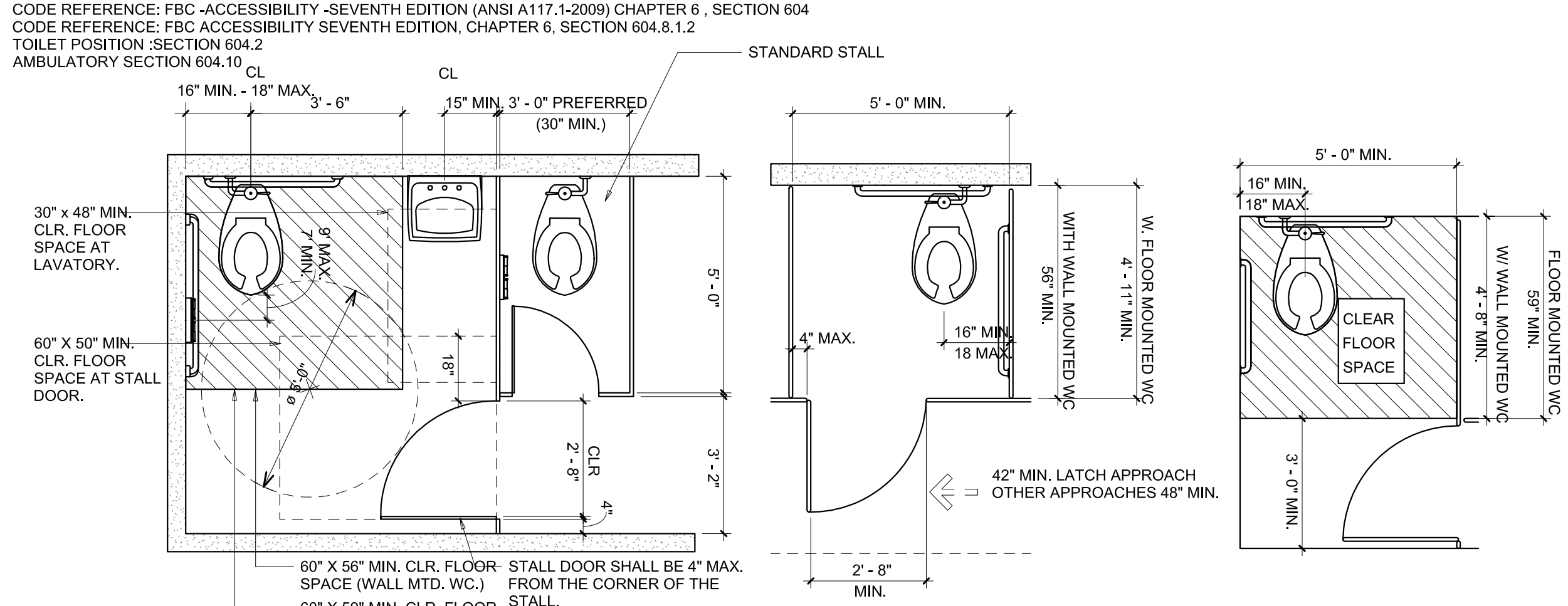
CLEAR FLOOR SPACE AT LAVATORIES

1 BATHROOM SIGNAGE
A5 NTS

6 LAVATORY CLEARANCES
A5 NTS



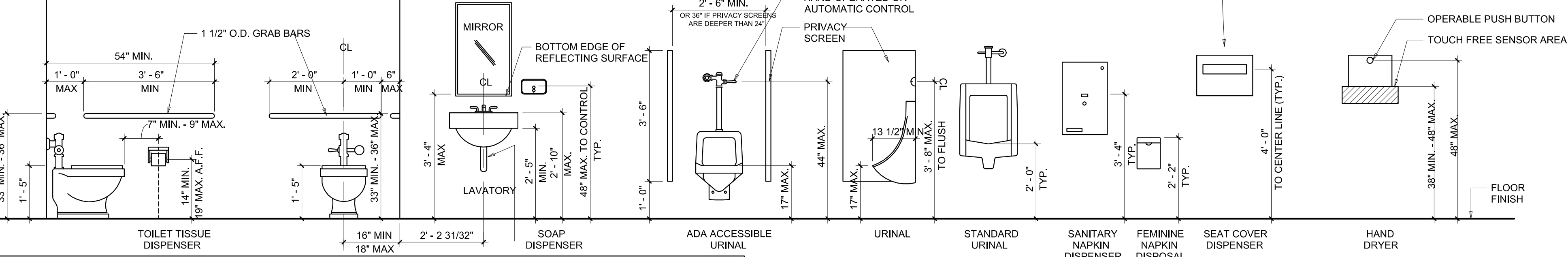
NOTE:
WHERE THE COMBINED TOTAL WATER CLOSET COMPARTMENTS AND URINALS PROVIDED IN A TOILET ROOM IS SIX OR MORE, AT LEAST ONE AMBULATORY ACCESSIBLE WATER CLOSET COMPARTMENT SHALL BE PROVIDED IN ADDITION TO THE WHEELCHAIR-ACCESSIBLE COMPARTMENT



NOTE:
THE LAVATORY SHALL NOT OVERLAP THE CLEAR FLOOR SPACE FOR THE TOILET. STALL IS REQUIRED TO INCLUDE A LAVATORY UNDER NEW CONSTRUCTION IN FLORIDA. TYPICAL ACCESSIBLE TOILET STALL PLANS INSWING DOOR - PROVIDE ACCESSIBLE PULL HARDWARE ON BOTH SIDES OF EACH ACCESSIBLE STALL DOOR - TYPICAL.

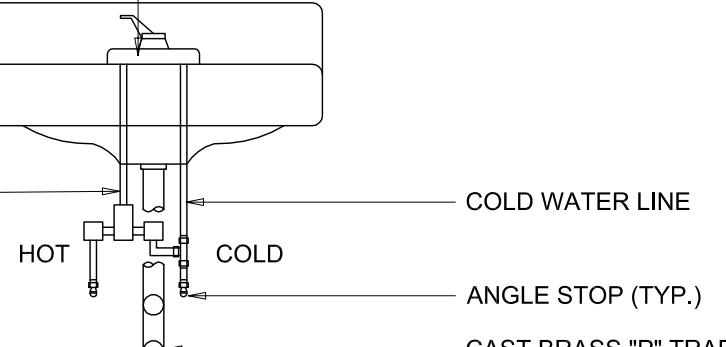
8 TOILET STALLS
A5 NTS

CODE REFERENCE: FBC ACCESSIBILITY, SEVENTH EDITION
TOILET: SECTION 604.2
GRAB BARS: SECTION 610
MIRROR: SECTION 603.3
URINALS: SECTION 605.2



NOTE:
1. PLUMBING FIXTURES CANNOT PROJECT MORE THAN 4" FROM WALL, TYP.
2. ALL HEIGHTS ARE TO BE CONSIDERED A.F.F.
3. FOR HAND DRYER TOUCH FREE SENSOR REFER TO MANUF. RECOMMENDATIONS, HOWEVER NOT TO EXCEED 48" AFF.
4. BATHROOM ACCESSORIES CANNOT PROJECT MORE THAN 4" FROM FINISH WALL WHEN LOCATED BETWEEN 27" TO 80" ABOVE FINISH FLOOR ELEVATION.
5. ALL WATER CLOSETS, URINALS, LAVATORIES AND BIDETS TO COMPLY WITH FBC-P 405.3.1. A WATER CLOSET, URINAL, LAVATORY OR BIDET SHALL NOT BE SET CLOSER THAN 15 IN FROM ITS CENTER TO ANY SIDE WALL, PARTITION, VANITY OR OTHER OBSTRUCTION. WHERE PARTITIONS OR OTHER OBSTRUCTIONS DO NOT SEPARATE ADJACENT FIXTURES, FIXTURES SHALL NOT BE SET CLOSER THAN 30 IN CENTER TO CENTER BETWEEN ADJACENT FIXTURES. THERE SHALL BE NOT LESS THAN A 21-INCH CLEARANCE IN FRONT OF A WATER CLOSET, URINAL, LAVATORY OR BIDET TO ANY WALL, FIXTURE OR DOOR.
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. TYPICAL.

LAVATORY HAND SINK & AS SPECIFIED



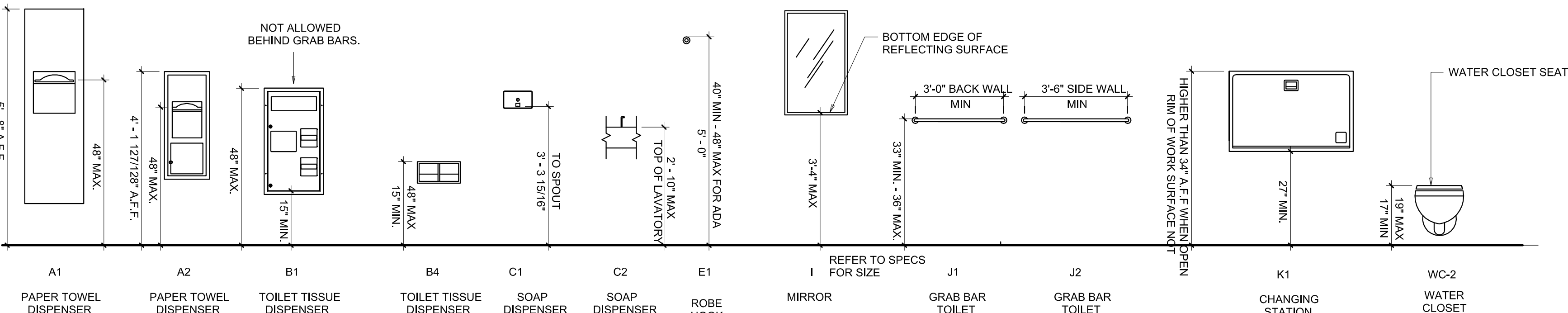
105 DEG. HOT WATER MIXING VALVE (TV-1) SET AT 105 DEG. NOTE THAT MIXING VALVE SHALL NOT DELIVER HOT WATER THAT EXCEEDS 120 DEG FAHRENHEIT (49 DEG CELSIUS)

PROVIDE LAV. GUARD MODEL #103 E-Z. P-TRAP COVER, BY TRUEBRO, INC. OR EQUAL ALTERNATE APPROVED BY ARCHITECT

NOTE:
1. PROVIDE PROTECTION AS PER FBC 2017-606.5.
2. ALL HOT WATER PIPES, DRAIN PIPES EXPOSED SHALL BE INSULATED OR PROTECTED SO AS TO PROTECT AND PREVENT AGAINST CONTACT. THERE SHOULD BE NO SHARP, HOT OR ABRASIVE SURFACES UNDER SINKS. ARCHITECT-ENGINEERED POLYMER FOAM INSULATION, (SHEET)

11 FIXTURES MOUNTING HEIGHTS
A5 NTS

CODE REFERENCE: FBC ACCESSIBILITY, SEVENTH EDITION CHAPTER 6, SECTION 603 & 604
SPOUT HEIGHT SECTION 602.4
SPOUT HEIGHT STANDING PERSON SECTION 602.7
MIRROR SECTION 603.3
COAT HOOKS & SHELVES SECTION 603.4
SEAT HEIGHT SECTION 604.4
TOILET TISSUE DISPENSER SECTION 604.7



NOTE:
1. ALL HEIGHTS ARE TO BE CONSIDERED A.F.F.
2. ALL MIN AND MAX HEIGHTS ARE TO OPERABLE PARTS OR DISPENSING PORTION OF THE ACCESSORY UNLESS OTHERWISE NOTED.
3. REFER TO ACCESSORY AND PLUMBING SCHEDULES FOR ALL MANUFACTURER & MODEL INFORMATION

16 FIXTURES & ACCESORIES MOUNTING HEIGHTS
A5 NTS

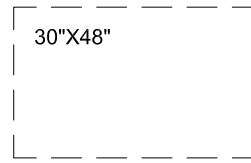
14 SINK SERVICE CONNECTION REQUIREMENT
A5 NTS

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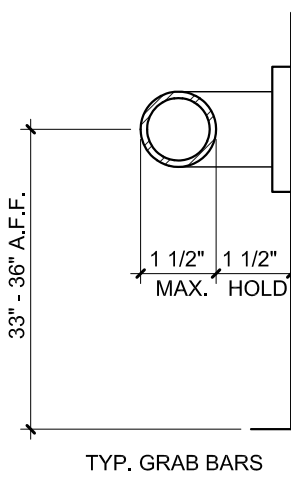
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TYP. ADA CLEAR FLOOR SPACE

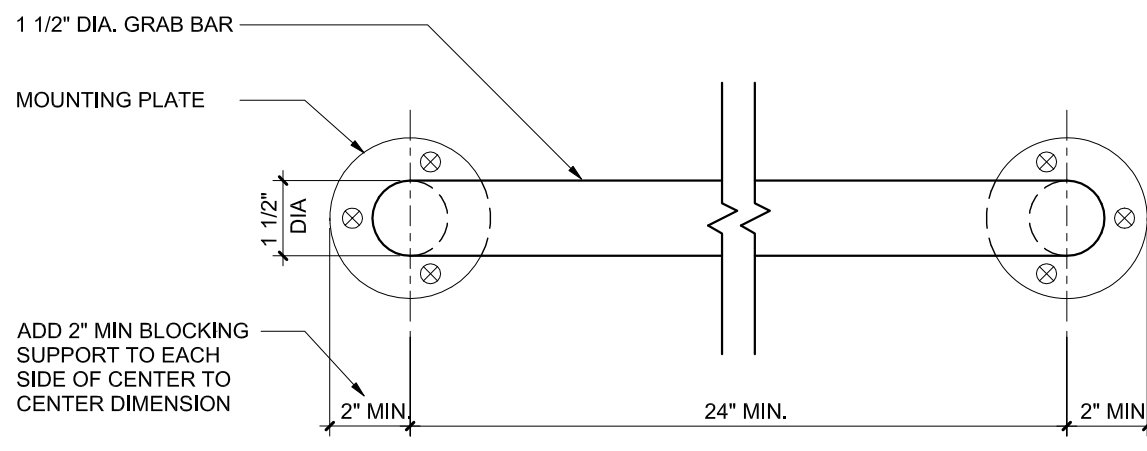
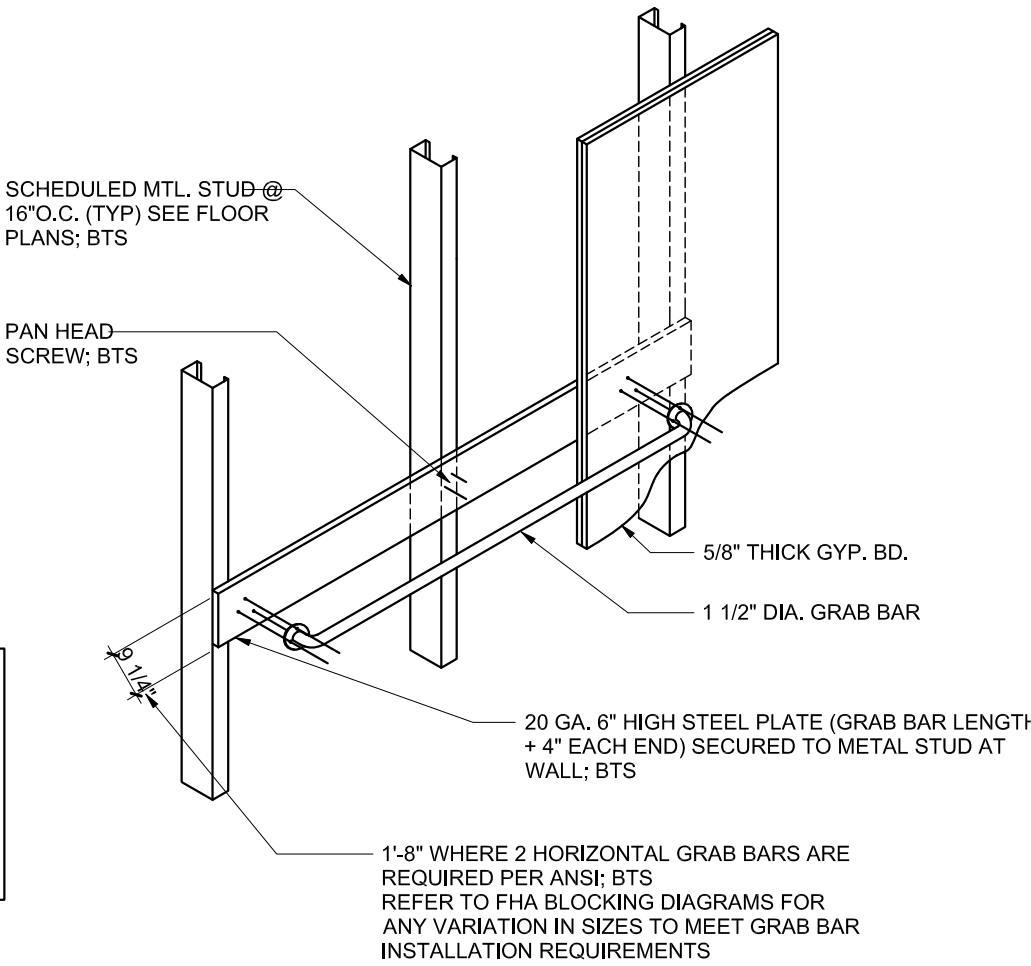
30"x48" CLEAR SPACE IS REQUIRED FOR PARALLEL OR FORWARD APPROACH IN ALL KITCHENS AT SINKS AND ALL APPLIANCES, BATHROOM CLEAR SPACE REQUIRED AT VANITY AND BATHING FIXTURE, DOORS CAN OVERLAP CLEAR SPACES, AS LONG AS ONE 30"x48" CLEAR AREA IS CLEAR OF DOOR SWING. SEE PLANS FOR LOCATIONS AND ORIENTATION.



GRAB BAR MOUNTING REQUIREMENTS

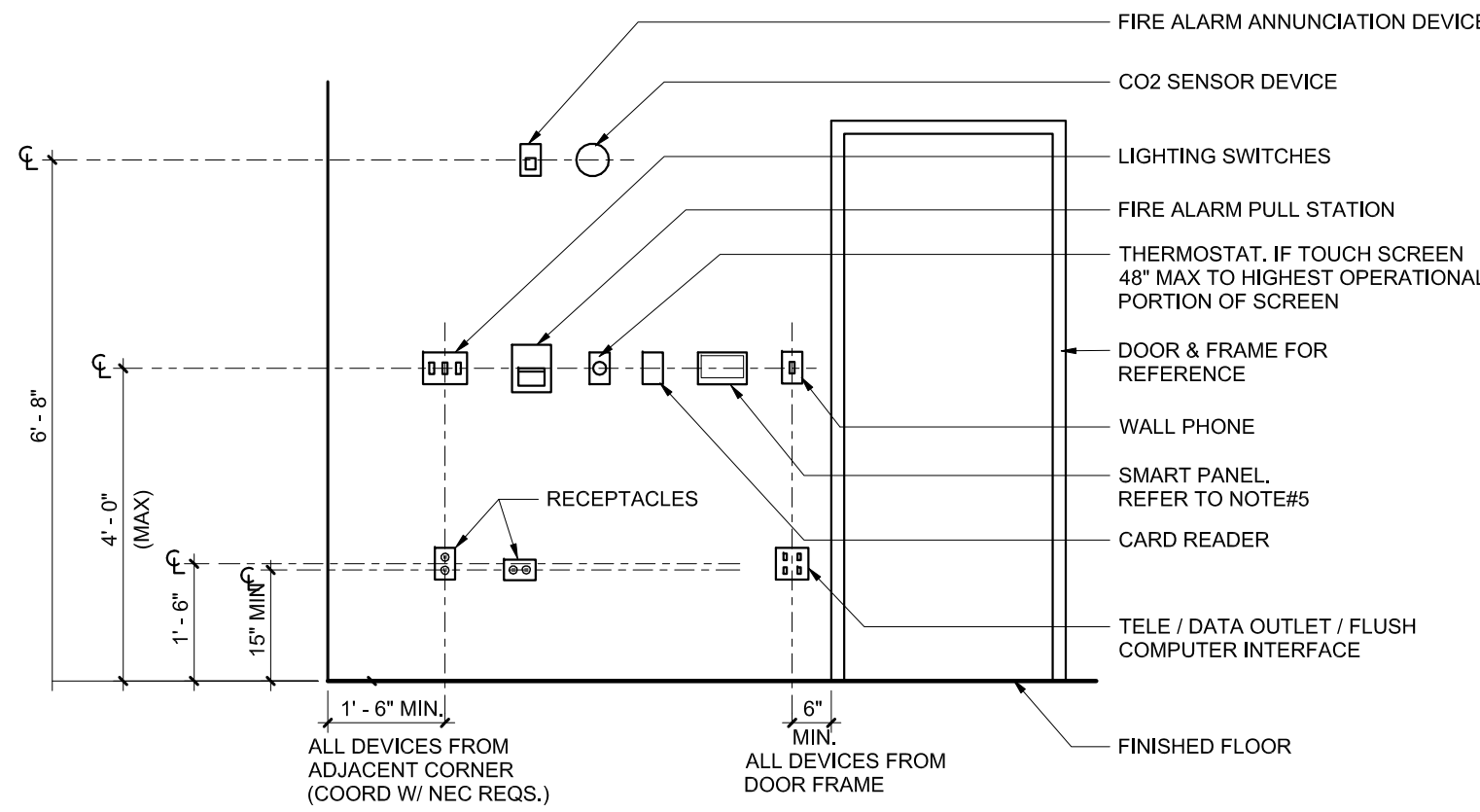


GRAB BAR NOTES:
1. SHALL BE DESIGN DESIGNED AND SUPPORTED AS TOWNSTAND A LOAD OF NOT LESS THAN 250 POUNDS APPLIED AT ANY POINT, DOWNWARD OR HORIZONTALLY.
2. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
3. ALL EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCH.
WALL NOTE:
PROVIDE 20 GA. METAL STUD AT ALL REST ROOM WALLS.

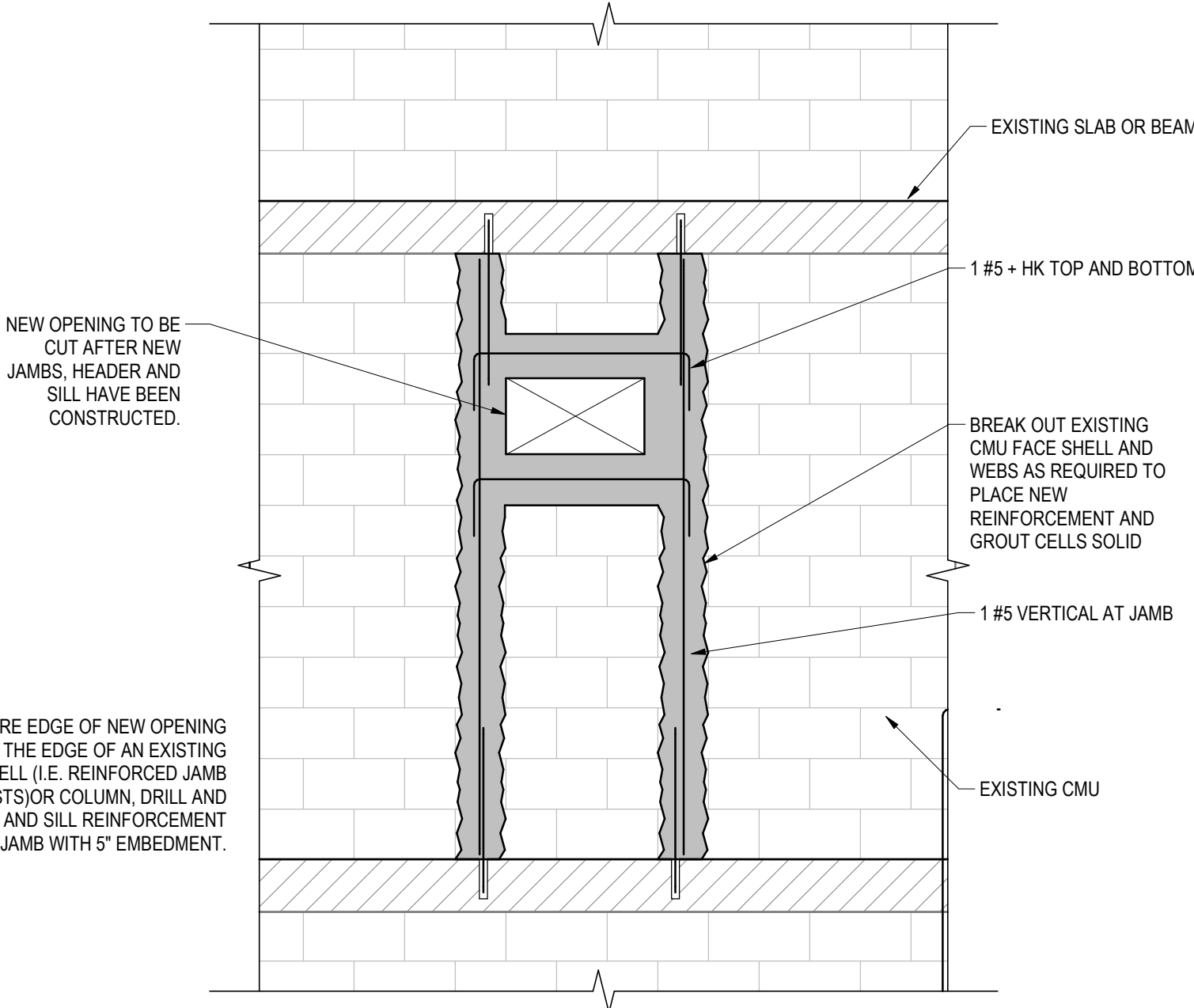


TYP. GRAB BAR ELEVATION - BLOCKING EXTENTS

TYPICAL MOUNTING HEIGHTS - COMMON AREAS



NOTE:
1. ALL DEVICES INSTALLED AS SHOWN U.O.N.
2. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM CENTERLINE OF DEVICE TO FINISHED FLOOR.
3. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
4. DEVICES SHALL BE 15" MIN FROM ANY INSIDE CORNER TO CENTERLINE OF DEVICE.
5. SMART PANELS USED TO CONTROL LIGHTS, THERMOSTAT, ETC. TO BE INSTALLED 48" MAX TO HIGHEST OPERATIONAL PORTION OF SCREEN. IF INDEPENDENT COMPARABLE CONTROLS ARE PROVIDED TO THESE DEVICES TO OVERRIDE SMART PANEL FUNCTION THEN SMART PANEL CAN BE INSTALLED AT A HIGHER ELEVATION. REFER TO MANUF. RECOMMENDATIONS.



1 NEW PENETRATION THROUGH EXISTING CMU WALL
1/2" = 1'-0"

PERMIT SET

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RESTROOM RENOVATIONS
5300 NW 102ND AVENUE
Doral, FL 33178

Title
TYP MOUNTING HEIGHTS
GENERAL DIAGRAM &
NOTES

Project No. 227100129
Revision

Scale As indicated
Drawing No.

DUCTWORK LEGEND			
SINGLE LINE		DOUBLE LINE	
	SUPPLY DUCT UP		
	SUPPLY DUCT DOWN		
	STANDARD RADIUS ELBOW (R = W) SUPPLY/RETURN/ EXHAUST		
	MITERED ELBOWS W/ VANES		
	BULLHEAD SPLIT SUPPLY		
	CEILING DUCT MTD. DIFF/GRILLE		
	TAKEOFF TO DIFF/GRILLE		
	ACOUSTICALLY LINED DUCT		
	FIRE DAMPER WITH ACCESS DOOR		

HVAC DUCTWORK SYMBOL LIST	
	DUCT SIZE (FIRST FIGURE INDICATES HORIZONTAL SIZE)
	ROUND DUCT DIAMETER
	ACOUSTIC LINING IN DUCT
	TRANSITION FROM RECTANGULAR TO ROUND OR OVAL DUCT
	ACCESS DOOR IN DUCT
	FLEXIBLE CONNECTION
	VOLUME DAMPER
	FIRE DAMPER W/ DUCT ACCESS DOOR
	MOTORIZED DAMPER W/ DUCT ACCESS DOOR
	COMBINATION FIRE/SMOKE DAMPER W/ DUCT ACCESS DOOR
	SUPPLY REGISTER
	RETURN OR EXHAUST REGISTER OR GRILLE
	SUPPLY CEILING DIFFUSER (4-WAY BLOW)
	SUPPLY CEILING DIFFUSER (3-WAY BLOW)
	SUPPLY CEILING DIFFUSER (2-WAY BLOW)
	SUPPLY CEILING DIFFUSER (1-WAY BLOW)
	DIFFUSER TYPE AND CFM (CUBIC FEET PER MINUTE). REFER TO SCHEDULE.
	RETURN CEILING GRILLE OR REGISTER
	SUPPLY LINEAR DIFFUSER W/ PLENUM
	RETURN LINEAR DIFFUSER
	SLOPING RISE IN DUCT IN DIRECTION OF ARROW
	SLOPING DROP IN DUCT IN DIRECTION OF ARROW
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	ELBOW WITH TURNING VANES
	RADIUS ELBOW
	DUCT SPLIT OR BRANCH TAKEOFF
	DOOR LOUVER
	CONTINUATION FOR DUCTWORK
	DOOR UNDERCUT

HVAC PIPING SYMBOL LIST	
	PIPE TURNING UP
	PIPE TURNING DOWN
	CONNECTION TO TOP OF PIPE
	CONNECTION TO BOTTOM OF PIPE
	REDUCER
	EXPANDER
	CAPPED VALVE OUTLET
	CHECK VALVE
	DUCT RISE OR DROP
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSATE DRAIN
	GATE VALVE
	GLOBE VALVE
	BUTTERFLY VALVE
	THREE-WAY VALVE
	TWO-WAY CONTROL VALVE
	AUTOMATIC CONTROL VALVE
	BACKFLOW PREVENTER
	PRESSURE GAUGE
	THERMOMETER
	STRAINER WITH BLOWDOWN VALVE.
	FLOW SWITCH
	PRESSURETROL
	SWITCH W/ PILOT LIGHT

HVAC ABBREVIATIONS	
AC	AIR CONDITIONING UNIT
AD	ACCESS DOOR
AFSD	AUTOMATIC FIRE SMOKE DAMPER
AL	ACOUSTIC LINING
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
BDD	BACK DRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CC	COOLING COIL
CD	CEILING DIFFUSER
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CH	CHILLER
CHWP	CHILLED WATER PUMP
C.O.D.	CLEAN OUT DOOR
CP	CONDENSATE PUMP
CR	CEILING REGISTER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	CONDENSER WATER
CWP	CONDENSER WATER PUMP
CWS&R	CONDENSER WATER SUPPLY AND RETURN
CV	CONSTANT VOLUME
DHWH	DOMESTIC HOT WATER HEATER
DHWT	DOMESTIC HOT WATER TANK
EAT	ENTER AIR TEMPERATURE
EF	EXHAUST FAN
EH	ELECTRICAL HUMIDIFIER
ET	EXPANSION TANK
EUH-#	ELEC. UNIT HEATER
EWT	ENTER WATER TEMPERATURE
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER WITH ACCESS DOOR
FLA	FULL LOAD AMPS
FLD	FUSIBLE LINK DAMPER
FPB	FAN POWERED BOX
FPI	FINS PER INCH
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
GPM	GALLONS PER MINUTE
HX	HEAT EXCHANGER
HZ	HERTZ
HPS	HIGH PRESSURE STEAM
HTHW	HIGH TEMPERATURE HOT WATER
LAT	LEAVING AIR TEMPERATURE
LD-1	LINEAR DIFFUSER TYPE 1
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
NIC	NOT IN CONTRACT
O.A.I.	OUTSIDE AIR INTAKE
OED	OPEN ENDED DUCT
P.C.	PUMPED CONDENSATE
PH	PHASE
PHWP	PREHEAT HOT WATER PUMP
RHWP	REHEAT HOT WATER PUMP
PHW	PREHEAT HOT WATER
PRV	PRESSURE REDUCED VALVE
PSI	POUNDS PER SQUARE INCH
RF	RETURN FAN
RHW	REHEAT HOT WATER
SAC	SUPPLEMENTAL AIR CONDITIONING UNIT
SD	SMOKE DETECTOR
SF	SUPPLY FAN
TD	TRANSFER DUCT
TX	TOILET EXHAUST
U.O.N.	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VF	VERIFY IN FIELD
VFD	VARIABLE FREQUENCY DRIVE
VD	VOLUME DAMPER(OPPOSED BLADE DAMPER)
W	WITH
WMS	WIRE MESH SCREEN

HVAC SYMBOL LIST	
	NEW DUCTWORK-SEE SPECIFICATIONS FOR CONSTRUCTION TYPE AND INTERNAL LINING
	CEILING RETURN/EXHAUST GRILLE
	THERMOSTAT
	THERMOSTAT/SENSOR WIRING
	AUTOMATIC MOTORIZED DAMPER, SUITABLE FOR 277 VOLTS.
	RETURN AIR OPENING
	NUMBER IN CIRCLE REFERS TO NOTE ON PLANS
	WIRE MESH SCREEN
	MOTORIZED DAMPER, SUITABLE FOR 277V
	SMOKE DETECTOR
	VAV BOX
	FAN POWER BOX WITH HTG COIL
	EXHAUST FAN
	CABINET UNIT HEATER
	NEW CONNECT TO EXISTING
	POINT OF DISCONNECT
	TRANSFER DUCT
	AIR FLOW METER
	STATIC PRESSURE SENSOR
	CEILING MOUNTED OCCUPANCY SENSOR
	WALL MOUNTED OCCUPANCY SENSOR

GENERAL DEMOLITION NOTES	
1.	THE MECHANICAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FILED AND COORDINATE ALL REMOVAL ACTIVITIES WITH NEW CONSTRUCTION.THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION PRIOR TO BEGINNING REMOVAL.
2.	EXISTING MAIN HYDRONIC PIPING AND ALL ASSOCIATED COMPONENTS, VALVES, CONTROLS, HANGERS AND SUPPORT THAT PROVIDE SERVICE TO OTHER BUILDING AREAS THAT ARE NOT PART OF THIS RENOVATION, SHALL BE MAINTAINED.
3.	EXISTING DUCTWORK AND ALL ASSOCIATED COMPONENTS, DAMPERS, CONTROLS, DIFFUSERS, GRILLES, HANGERS AND SUPPORT THAT PROVIDE SERVICE TO OTHER BUILDING AREAS THAT ARE NOT PART OF THIS RENOVATION, SHALL BE MAINTAINED.
4.	THE LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS IS BASED ON SITE OBSERVATIONS AND THE BEST AVAILABLE INFORMATION AT THE TIME OF DRAWINGS PREPARATION AND SOME DISCREPANCIES MAY EXIST.VERIFY THE EXACT LOCATIONS OF EQUIPMENT TO BE REMOVED IN THE FIELD AND REQUEST CLARIFICATION FROM ENGINEER WHEN EQUIPMENT LOCATION OR EXISTENCE DIFFERS FROM PLANS.
5.	COORDINATE WITH ENVIRONMENTAL PRIOR TO REMOVING IN-FLOOR DEVICES AND PENETRATIONS TROUGH THE BUILDING CONSTRUCTION TO ASSURE REMOVAL OF ASBESTOS CONTAINING MATERIALS PRIOR TO STARTING WORK.
6.	IT SHALL BE THE CONTRACTOR RESPONSIBILITY TO MAINTAIN THE EXISTING BUILDING IN MECHANICAL OPERATION AT ALL TIMES DURING OCCUPIED PERIOD. IF IT IS ABSOLUTELY NECESSARY TO SHUT-DOWN THE FACILITY AT ANY TIME, THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND MAKE ARRANGEMENTS TO DO SO AT THE OWNER'S CONVENIENCE DURING OFF HOURS. CONTRACTOR SHALL PROVIDE OWNER ADVANCE NOTICE IN WRITING MINIMUM 3 BUSINESS DAYS PRIOR SHUT-DOWN.
7.	COORDINATE WORKS WITH OTHER TRADES TO AVOID CONFLICTS AND DELAYS.
8.	WHERE THE EXISTING PIPING, CONDUIT, OR DUCTWORK SERVING ANY EXISTING MECHANICAL EQUIPMENT IN AREA OF EXISTING BUILDINGS NOT BE ALTERED IS INTERFERED WITH, CONTRACTOR SHALL REROUTE AND RECONNECT ALL SUCH PIPES OR DUCTWORK PRIOR APPROVAL FROM ENGINEER.
9.	MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF EXISTING CONSTRUCTION UNLESS OTHERWISE NOTED ON PLANS. NO CUTTING OF STRUCTURAL MEMBERS OR STRUCTURE WHICH WILL DEGRADATE THE INTEGRITY AND STRENGTH OF THE BUILDING WILL BE ALLOWED WITH OUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
10.	PATCH AND REPAIR OPENINGS THROUGH WALLS AND FLOORS WHERE MECHANICAL SYSTEMS WERE REMOVED TO MATCH EXISTING AND TO MAINTAIN FIRE RATING. WALL FINISHED BY OTHERS.
11.	ALL MATERIALS AND EQUIPMENT REMOVED AS A RESULT OF DEMOLITION ACTIVITIES SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. AT THE DISCRETION OF THE OWNER EXISTING AIR TERMINAL UNITS, AIR OUTLETS AND CONTROLS MAYBE TURNED OVER TO THE OWNER FOR FUTURE USE.

DESIGN REQUIREMENTS		
HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR	X	
FIRE DAMPER(S)		X
FIRE RATED ENCLOSURE		X
SMOKE DAMPER(S)		X
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		X
FIRE STOPPING		X
SMOKE CONTROL		X

GENERAL NOTES	
1.	THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE DESIGN INFORMATION REQUIRED TO OBTAIN A BUILDING PERMIT AND FOR A COMPETENT CONTRACTOR TO IMPLEMENT A COMPLETE "TURN-KEY" PROJECT TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFICATIONS TO EQUIPMENT AND PIPING LOCATIONS, RELOCATIONS OF EXISTING SERVICES WHICH ARE TO REMAIN AND INTERFERE WITH THE WORK. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NOTED DELEGATE DESIGNS, INCLUDING ENGAGEMENT OF PROFESSIONAL ENGINEERS AS REQUIRED BY CODE AUTHORITIES AND MEETING ALL PERFORMANCE SPECIFICATIONS.
2.	SCOPE OF WORK A. DEMOLITION WORK 1) DEMOLISH EXISTING AIR TRANSFER GRILLES AND ASSOCIATED DUCTWORK WITHIN SCOPE OF WORK AREA. 2) REMOVE EXISTING LOW WALL NATURAL VENTILATION LOUVERS AND FILL IN. 3) REMOVE EXISTING MINI-SPLIT FROM EACH RESTROOM. EACH UNIT TO BE EVALUATED AND THE UNIT IN BETTER CONDITION IS TO BE RE-USED AND RELOCATED AS PART OF NEW WORK. 4) REPLACE EXISTING EXHAUST GRILLES IN CHEMICAL STORAGE SPACE. 5) REMOVE NOT-IN-SERVICE EXHAUST FAN. 6) REMOVE AND REPLACE EXISTING RESTROOM EXHAUST FAN. 7) ALL EXISTING SUPPLY/RETURN/EXHAUST GRILLES TO REMAIN TO BE COVERED PRIOR TO START OF DEMOLITION. B. NEW WORK 1) PROVIDE NEW 100% OA SPLIT-DX FCU SYSTEM, DUCTWORK AND GRILLES TO PROVIDE MECHANICAL VENTILATION, COOLING AND HUMIDITY CONTROL TO RESTROOMS. 2) PROVIDE NEW OA INTAKE EXTERIOR WALL MOUNTED LOUVER. 3) RE-BALANCE EXISTING EXHAUST GRILLES TO REMAIN TO CFM'S INDICATED. 4) RELOCATE (1) EXISTING MINI-SPLIT TO EXISTING ELECTRICAL CLOSET. 5) PROVIDE NEW RESTROOM EXHAUST FAN IN SAME LOCATION AS PREVIOUS. C. START-UP AND COMMISSIONING 1) THE MECHANICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND LABOR TO CONNECT AND OPERATE A FALSE LOAD, IF REQUIRED, DURING EQUIPMENT START-UP AND COMMISSIONING. 2) THE CONTROLS CONTRACTOR SHALL COORDINATE ALL START-UP AND COMMISSIONING ACTIVITIES WITH THE OEM REPRESENTATIVES, MECHANICAL CONTRACTOR AND THE COMMISSIONING AUTHORITY RETAINED BY THE OWNER. 3) THE MECHANICAL AND CONTROLS CONTRACTORS SHALL INCLUDE IN THEIR BASE PRICE HOURS, MANPOWER, AND EQUIPMENT ANTICIPATED TO BE REQUIRED FOR START-UP AND COMMISSIONING. 4) CONTROLS CONTRACTOR SHALL PERFORM A THREE POINT VERIFICATION FOR ALL SENSORS FOR TEMPERATURE AND HUMIDITY, AND DIFFERENTIAL PRESSURE. D. PRIOR TO ORDER OF EQUIPMENT OR START OF INSTALLATION OF SYSTEM COMPONENTS, SUBMIT THE FOLLOWING FOR APPROVAL: 4) COMPLETE DETAIL SET OF SHOP DRAWINGS FOR DUCTWORK, EQUIPMENT, PIPING, AND SYSTEMS INDICATING DIMENSIONS, MATERIALS OF CONSTRUCTIONS, AND METHODS OF ASSEMBLY. 5) IN LETTER FORM, MANUFACTURER'S NAMES FOR EQUIPMENT, ACCESSORIES AND INCIDENTALS NOT COVERED BY SHOP DRAWINGS.
3.	CONTRACTOR SHALL MAINTAIN SET OF DRAWINGS TO REFLECT RECORD DOCUMENT CONDITIONS. CONTRACTOR SHALL SUBMIT DOCUMENTS INCLUDING A COPY OF ALL APPROVED SHOP DRAWINGS. PROVIDE LITERATURE CUTS, OPERATION AND MAINTENANCE DATA TO OWNER PRIOR TO END OF CONTRACT. SEE SPECIFICATIONS FOR REQUIREMENTS.
4.	THROUGHOUT THESE SPECIFICATIONS AND PROJECT DRAWINGS, THE WORD "ENGINEER" OR "ARCHITECT" SHALL MEAN STANTEC.
5.	CONTRACTOR SHALL COORDINATE WITH OWNER A MINIMUM OF 48 HOURS BEFORE STARTING WORK FOR THE FOLLOWING: BUILDING ACCESS, RULES AND REGULATIONS, DAILY CLEAN UP AND MATERIAL REMOVAL MOVEMENT THROUGH FACILITY, TIE-INS TO EXISTING SERVICES, STORAGE AREAS AND REMOVALS.
6.	ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7.	ALL WORK (MATERIAL AND LABOR) SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM TIME OF OWNER'S ACCEPTANCE.
8.	CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE OWNER. ALL DIMENSIONS ON DRAWINGS ARE TO BE FIELD VERIFIED AND COORDINATED BY THE CONTRACTOR. THE CONTRACT DRAWINGS ARE CONSIDERED TO BE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETAILING ALL CONTRACTIBILITY ISSUES.
9.	ALL EXITS FROM EXISTING BUILDING MUST REMAIN UNOBSTRUCTED AND OPERABLE AT ALL TIMES. EXISTING SPRINKLER, CCTV AND ALARM SYSTEM MUST REMAIN IN OPERATING ORDER. CONTRACTOR MUST COORDINATE WITH OWNER A MINIMUM OF 48 HOURS IN ADVANCE FOR ANY SHUTDOWN OF MECHANICAL, ELECTRICAL OR FIRE SPRINKLER SYSTEMS.
10.	ALL WORK SHALL BE PERFORMED UTILIZING THE LATEST INDUSTRY STANDARDS OF EACH TRADE. WHERE APPLICABLE, CARE SHALL BE EXERCISED TO MINIMIZE DISTURBANCE TO ADDJING AREAS OF THE BUILDING BY UTILIZING TEMPORARY PARTITIONS AND KEEPING WORK AREAS UNDER NEGATIVE PRESSURE. CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY BARRICADES AS REQUIRED BY OSHA AND ALL GOVERNING AUTHORITIES.
11.	CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE OWNER FOR APPROVAL TO SHUT DOWN ANY MECHANICAL SYSTEM. THE WRITTEN REQUEST SHALL BE ISSUED A MINIMUM OF 48 HOURS PRIOR TO THE SHUTDOWN AND SHALL INCLUDE THE SYSTEM BEING SHUT DOWN, TIME REQUIRED FOR SHUT DOWN, AND DESCRIPTION OF WORK TO BE PERFORMED. NO SYSTEM SHALL BE SHUT DOWN WITHOUT OBTAINING WRITTEN CONSENT FROM THE OWNER.
12.	SEE SPECIFICATIONS, DETAILS, AND PLANS FOR EQUIPMENT, DEVICES, DUCTWORK AND PIPING SYSTEMS. ANY COMPONENT CALLED FOR IN THE CONTRACT DOCUMENTS SHALL BE INCLUDED IN THE BID PRICE.
13.	CONTRACTOR SHALL COORDINATE WITH STRUCTURAL AND SITE/CIVIL DRAWINGS FOR EQUIPMENT PADS AND SUPPORTS.
14.	CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF ALL OTHER TRADES DURING SHOP DRAWING FABRICATION.
15.	ALL GENERAL NOTES APPLY TO ALL MECHANICAL DRAWINGS.
16.	ALL WORK SHALL BE PERFORMED SO IT WILL MINIMIZE INTERFERENCE WITH NORMAL BUILDING OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCING ALL OWNER REGULATIONS WITH EMPLOYEES AND SUBCONTRACTORS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THEIR PERSONNEL AND EQUIPMENT. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL PEOPLE WHO MAY BE ON OR NEAR THE WORK AREA, BY MAINTAINING A SAFE WORK AREA, SAFE WORKING CONDITIONS, AND LIMITING ACCESS TO THE WORK AREA. CONTRACTOR SHALL DESIGNATE ONE OF THEIR EMPLOYEES TO BE PRIMARILY RESPONSIBLE FOR SAFETY ON THE WORK SITE.
17.	ALL DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED COMPLEMENTARY. ALL DETAILS, ELEMENTS, STRUCTURES, ETC. SHALL BE ASSUMED TO BE ON ALL DOCUMENTS EVEN IF THEY ARE ONLY SHOWN ON ONE DOCUMENT.
18.	EFFORTS HAVE BEEN EXERCISED TO ELIMINATE INTERFERENCES BETWEEN AND AMONG TRADES. IN SPIE OF THIS, SOME INTERFERENCES SHOULD BE EXPECTED. THE CONTRACTOR IS RESPONSIBLE FOR BRINGING ALL INTERFERENCES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR HELP IN RESOLUTION. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH INTERFERENCES.
19.	THESE DRAWINGS SHALL NOT BE SCALED FOR PURPOSES OF CONSTRUCTION. MEASURE FIELD CONDITIONS FOR THE PURPOSE OF COORDINATING NEW WORK.
20.	CONTRACTOR SHALL PERSONALLY SUPERVISE THE WORK, OR HAVE A COMPETENT SUPERVISOR, SATISFACTORY TO THE OWNER'S REPRESENTATIVE, PRESENT AT THE WORK SITE AT ALL TIMES DURING THE DEMOLITION AND CONSTRUCTION WORK. CONTRACTOR SHALL PROVIDE ADEQUATE PERSONNEL AND ORGANIZATION FOR THE PROPER COORDINATION AND EXPEDITING OF THE WORK.
21.	CONTRACTOR IS FULLY RESPONSIBLE FOR THEIR WORKER'S SAFETY, SAFETY EQUIPMENT, FIRST AID, AND EMERGENCY HANDLING PROCEDURES. OWNER AND STANTEC DO NOT HAVE THE RESPONSIBILITY, PERSONNEL, OR FACILITIES TO HANDLE THE CONTRACTOR'S SAFETY REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING SAFETY PROCEDURES, OBTAINING SAFETY TRAINING AND PROVIDING SAFETY DOCUMENTATION AS REQUIRED BY THE SITE AND/OR OWNER'S STANDARDS.
22.	FOR ADDITIONAL REQUIREMENTS, REFER TO SPECIFICATIONS.
23.	THE CONTRACTOR SHALL BE AWARE THAT DUE TO INACCURACIES OF EXISTING DRAWINGS, NOT ALL EXISTING ITEMS/CONDITIONS MAY BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL THEREFORE VERIFY FIELD CONDITIONS PRIOR TO START OF WORK AND TAKE CARE DURING CONSTRUCTION NOT TO DAMAGE LINES OR ITEMS NOT SHOWN.
24.	CODES, GUIDELINES AND STANDARDS REFERENCED IN THE DRAWINGS AND SPECIFICATIONS ARE UNDERSTOOD TO BE MINIMUM REQUIREMENTS. IF THE CONTRACT DOCUMENTS CALL FOR WORK ABOVE AND BEYOND THE REFERENCED CODE, GUIDELINES OR STANDARD, IT SHALL BE INCLUDED IN THE CONTRACTOR'S BID PRICE.

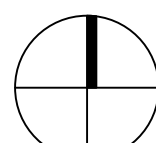


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PERMIT SET

CITY OF DORAL
MORGAN LEVY PARK
RESTROOM RENOVATIONS

5300 NW 102nd AVENUE
Doral, FL 33178

Title

GENERAL NOTES

Project No.

227100129

Revision

Scale

As indicated

Drawing No.

M-000

MECHANICAL SPECIFICATIONS

1. GENERAL CONDITIONS

THE APPLICABLE PROVISIONS OF THE GENERAL CONSTRUCTION SPECIFICATIONS SHALL APPLY TO THE FOLLOWING SPECIFICATION ARTICLES:
2. APPLICABLE STANDARDS, CODES AND PUBLICATIONS

A. THIS ENTIRE INSTALLATION SHALL BE TESTED AND INSTALLED TO CONFORM, AS A MINIMUM, TO APPLICABLE PROVISIONS OF THE FOLLOWING CODES AND STANDARDS EXCEPT WHERE STRICTER REQUIREMENTS ARE SPECIFIED ELSEWHERE HEREIN OR SHOWN ON THE CONTRACT DRAWINGS:

1)STATE OF FLORIDA (LATEST ADOPTED EDITION)

2)NFPA

3)OSHA AND ALL AGENCIES HAVING JURISDICTION
3. NOTICE TO BIDDERS

A. THE SPECIFICATIONS AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR THE MATERIAL AND LABOR PROVISIONS.

B. WHEN CONFLICTS OCCUR IN THE SPECIFICATIONS OR IN THE DRAWINGS, OR BETWEEN EITHER, THE ITEMS OF GREATER QUANTITY OR HIGHER COST SHALL BE PROVIDED.

C. THE CONTRACTOR SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS.

D. THE CONTRACTOR SHALL COORDINATE HIS WORK OR ADJUST SAME TO THAT OF OTHER TRADES, IN ORDER THAT CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR.

E. THE WORK UNDER THIS CONTRACT SHALL BE PERFORMED SIMULTANEOUSLY WITH THE WORK OF OTHER TRADES, SO AS NOT TO DELAY THE OVERALL PROGRESS OF WORK.

F. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COST TO THE OWNER.
4. SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS

A. PRIOR TO ORDER OF EQUIPMENT OR START OF INSTALLATION OF SYSTEM COMPONENTS, SUBMIT THE FOLLOWING FOR APPROVAL:

1)COMPLETE DETAILED SET OF SHOP DRAWINGS FOR DUCTWORK, EQUIPMENT AND SYSTEM INDICATING DIMENSIONS, MATERIALS OF CONSTRUCTION AND METHODS OF ASSEMBLY.

2)SHEET METAL SHOP DRAWINGS SHALL BE AT A MINIMUM OF 3/8" = 1'-0" SCALE. THESE SHOP DRAWINGS SHALL BE USED AS THE COORDINATION DRAWINGS FOR ALL TRADES.

3)IN LETTER FORM, MANUFACTURER'S NAMES FOR ACCESSORIES AND INCIDENTALS NOT COVERED BY SHOP DRAWINGS.
5. RECORD DRAWING

A. REPRODUCIBLE RECORD, DWG FILES [AUTOCAD VERSION 2018 OR EARLIER], DRAWINGS, AND PDF VERSIONS SHALL BE SUPPLIED UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.
6. OPERATING AND MAINTENANCE INSTRUCTIONS

A. AFTER FINAL TEST AND ADJUSTMENTS FULLY INSTRUCT OWNER'S OPERATING PERSONNEL IN ALL DETAILS OF OPERATING FOR EQUIPMENT INSTALLED. A SIGNED RECEIPT WHICH SHALL BE OBTAINED FROM THE OPERATOR AND SHALL BE PROVIDED AS EVIDENCE THAT INSTRUCTIONS WERE SATISFACTORILY PROVIDED.

B. FURNISH TWO (2) COPIES OF WRITTEN DESCRIPTIONS OF ALL SYSTEMS COVERING ALL MANUAL OPERATING PROCEDURES, AUTOMATIC CONTROL DESCRIPTIONS AND AUTOMATIC CONTROL TEMPERATURE AND PRESSURE SETTINGS. WRITTEN DESCRIPTIONS SHALL INCLUDE LUBRICATION SCHEDULES, PARTS LIST, PERFORMANCE SERVICE FOR EQUIPMENT, FILTER SIZE/QUANTITY SCHEDULE, ETC. WHEN MANUFACTURERS' STANDARD INSTRUCTIONS ARE UTILIZED, THEY SHALL BE CLEARLY MARKED TO INDICATE APPLICABILITY.
7. APPROVALS AND SUBSTITUTIONS

A. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER IS SPECIFIED AND SUBSTITUTIONS ARE MADE, THEY SHALL CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM. CRITERIA AS DELINEATED FOR EQUIPMENT, SHALL BE INTERPRETED AS MINIMUM PERFORMANCE REQUIREMENTS.

B. BASE ALL BIDS ON THE EQUIPMENT AND MANUFACTURERS LISTED. IF SUBSTITUTION IS PROPOSED, MAKE APPLICATION TO THE OWNER IN WRITING STATING THE COST DIFFERENTIAL INVOLVED.

C. THE CONTRACTOR SHALL COORDINATE WITH THE OTHER TRADES ALL REQUIREMENTS RELATED TO THE SUBSTITUTED EQUIPMENT AND CARRY THE ADDITIONAL COSTS.
8. COMMISSIONING, START-UP AND PERFORMANCE TESTS

A. COMMISSIONING PLAN BY OTHERS (COMMISSIONING AUTHORITY).

1)A COMMISSIONING PLAN OF THE MECHANICAL EQUIPMENT, ELECTRICAL LIGHTING AND WATER HEATING SYSTEM SHALL BE DEVELOPED BY AN APPROVED AGENCY AS REQUIRED BY FBC EC SECTION C408 AND SHALL INCLUDE THE FOLLOWING ITEMS:

a. A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSIONING,INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.

b. A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTEMS TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.

c. FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND CONTROLS.

d. CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED: TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIONS AND FULL OUTSIDE AIR CONDITIONS.

e. 'MEASURABLE CRITERIA FOR PERFORMANCE'.

f. WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY FOR THE SITE DRAWINGS, MANUALS, SYSTEM BALANCING REPORTS, DOCUMENTATION FOR LIGHTING CONTROLS SHOWING THAT THEY MEET THE STATE ADOPTED IEEC SECTION C405, THE FINAL COMMISSIONING REPORT, AND ALL OTHER DOCUMENTS AS PER THE STATE ADOPED IEEC SECTION C408 SHALL BE PROVIDED TO THE OWNER, OR OWNER'S AUTHORIZED AGENT.

B. PROVIDE START-UP FOR THE NEW FCU AND EXHAUST FAN INCLUDING CONTROLS, INSTRUMENTATION AND TESTING AND BALANCING: CONTRACTOR SHALL BUDGET MINIMUM 40-MAN HOURS FOR COMMISSIONING ASSISTANCE TO COMMISSIONING AUTHORITY. ADDITIONAL TIME SHALL BE BILLABLE AT PRO-RATED RATE.

C. UPON COMPLETION OF THE INSTALLATION, TEST AND BALANCE ALL EQUIPMENT AND SYSTEMS UNDER FIELD OPERATING CONDITIONS TO DEMONSTRATE ITS COMPLIANCE WITH SPECIFICATION REQUIREMENTS.

D. SHOULD ANY PART OF THE SYSTEM FAIL TO MEET THE CONTRACT REQUIREMENTS, ADJUST REPAIR OR REPLACE ALL DEFECTIVE OR INOPERATIVE PARTS AND AGAIN CONDUCT THE COMPLETE PERFORMANCE TEST.

E. SUBMIT TEST RESULTS TO THE OWNER AND ENGINEER.
9. TESTING, ADJUSTMENTS AND BALANCING

A. MAKE ALL REQUIRED ADJUSTMENTS OF AIR SYSTEM SYSTEM DEVICES UNTIL ALL SPECIFIED PERFORMANCES ARE MET. MECHANICAL CONTRACTOR TO PROVIDE VOLUME DAMPERS AS REQUIRED FOR FINAL BALANCING OF AIR SYSTEMS. CONTRACTOR TO FOLLOW PROCEDURES AS SPECIFIED BY ASHRAE.

B. AIR SYSTEM BALANCING SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED TESTING AND BALANCING FIRM WITH A MINIMUM OF FIVE YEARS' EXPERIENCE. SUBMIT EVIDENCE OF QUALIFICATIONS BY NEBB, TABB OR AMBC.

C. BALANCE ALL SUPPLY, RETURN AND EXHAUST DUCTWORK TO THE QUANTITIES INDICATED ON THE DRAWINGS WITH FOLLOWING TOLERANCES:

1)FANS - DESIGN VOLUME ±5%.

2)LEAKAGE - 1% MAXIMUM.

3)OUTLETS - DESIGN VOLUME ±10%.

D. CONTRACTOR TO PROVIDE TRAVERSE READING AT MAIN SUPPLY, RETURN AND EXHAUST DUCTS.

E. CONTRACTOR SHALL PROVIDE LEAKAGE AND PRESSURE TESTING OF ALL DUCTWORK EQUAL TO THE PRESSURE CLASS RATING OF THE DUCT. FOLLOW IECC, ASHRAE, SMACNA AND ISPE GUIDANCE FOR TESTING.

F. RANDOM CHECKS SHALL BE PERFORMED BY THE OWNER / DESIGNER WITHIN 90 DAYS OF COMPLETION OF TESTING TO VERIFY BALANCE CONDITIONS AND SEASONAL TESTS.

G. SUBMIT TESTING AND BALANCING REPORTS TO THE OWNER AND ENGINEER FOR APPROVAL.

H. WHERE INDICATED, BALANCE ROOMS TO ACHIEVE INDICATED DIFFERENTIAL PRESSURES REQUIRED.

I. WHERE SHOWN, TOTAL ROOM SUPPLY AIR SHALL EQUAL OR EXCEED INDICATED AIR CHANGED REQUIRED.
10. VERIFYING EXISTING CONDITIONS, REMOVALS AND ALTERATION

A. THE CONTRACTOR SHALL VISIT THE PREMISES TO DETERMINE EXISTING CONDITIONS AND COMPARE SAME WITH DRAWINGS AND SPECIFICATIONS AND SATISFY HIMSELF OF ALL CONDITIONS PRIOR TO THE SUBMISSION OF A BID PROPOSAL. NO ALLOWANCES WILL BE MADE FOR THE FAILURE TO COMPLY WITH THESE REQUIREMENTS, AND A BID PROPOSAL SHALL BE CONSTRUED AS EVIDENCE HE HAS DONE SO.

B. TEMPORARY CAP ALL OPEN DUCTWORK DURING CONSTRUCTION.
11. REMOVALS AND ALTERATIONS

A. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.

B. ALL REMOVED EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, OR TO A LOCATION AS DIRECTED BY THE OWNER.

C. KEEP EGRESS EXITS AND CORRIDORS CLEAR AT ALL TIMES.
12. CODES, PERMITS AND INSPECTIONS

A. ALL WORK SHALL MEET OR EXCEED LATEST REQUIREMENT OF NATIONAL STATE, CITY, MUNICIPAL AND OTHER AUTHORITIES EXERCISING JURISDICTION OF THE WORK OF THIS PROJECT.

B. ANY PORTION OF THE WORK WHICH IS NOT SUBJECT TO APPROVAL OF AN AUTHORITY HAVING JURISDICTION SHALL BE PROVIDED IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS.

C. COMPLY WITH APPLICABLE UTILITY COMPANY RULES AND REGULATIONS.

D. COMPLY WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS.

E. SECURE PERMITS AND INSPECTION CERTIFICATES, AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE WORK.
13. GUARANTEE AND SERVICE

A. THE CONTRACTOR SHALL GUARANTEE AND SERVICE THE ENTIRE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE FINAL ACCEPTANCE OF THE INSTALLATION.

B. THE CONTRACTOR SHALL, DURING THE PERIOD OF THE GUARANTEE, REPLACE OR REPAIR AT HIS OWN EXPENSE ANY PIECE OF EQUIPMENT AND/OR MATERIAL WHICH IS FOUND TO BE DEFECTIVE. THE REPLACEMENT OR REPAIR SHALL BE PERFORMED THE SAME DAY OF NOTIFICATION IN AN EMERGENCY FASHION WHEN NOTIFIED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGE TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT.

C. THE FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, BALANCED THE VARIOUS SYSTEMS, DEMONSTRATED THAT IT FULFILLS THE REQUIREMENT OF THE DRAWINGS AND SPECIFICATIONS, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES OF INSPECTION, APPROVALS, BALANCING REPORTS, AS-BUILTS AND O&M MANUALS
14. DUCTWORK

A. ALL DUCTWORK, DAMPERS AND ALL AUXILIARY DEVICES AND WORK NECESSARY TO MAKE THE VARIOUS AIR CONDITIONING AND VENTILATING SYSTEMS COMPLETE AND READY FOR SATISFACTORY OPERATION SHALL BE FURNISHED AND INSTALLED.

B. QUALITY ASSURANCE: FABRICATE SHEET METAL DUCTS, CASINGS AND PLENUMS IN COMPLIANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS. COMPLY WITH NFPA 90A AND 91.

C. DELEGATED DESIGN SUBMITTAL:

1)DESIGN CALCULATIONS AND DETAILED FABRICATION AND ASSEMBLY OF DUCT ANCHORS HANGERS AND SUPPORTS FOR MULTIPLE DUCTS, VIBRATION ISOLATION AND ATTACHMENTS TO THE BUILDING STRUCTURE.

2)LOCATIONS AND SELECTION OF DUCT ANCHORS.

3)LOCATIONS AND SELECTION OF VIBRATION ISOLATION SUPPORTS.

4)LOCATIONS OF AND DETAILS FOR PENETRATIONS, INCLUDING SLEEVES AND SLEEVE SEALS FOR EXTERIOR WALLS, FLOORS, BASEMENT, AND FOUNDATION WALLS.

5)LOCATIONS OF AND DETAILS FOR PENETRATION AND FIRESTOPPING FOR FIRE- AND SMOKE-RATED WALL AND FLOOR AND CEILING ASSEMBLES.

C. SINGLE-WALL AND DOUBLE-WALL ROUND AND RECTANGULAR DUCTWORK, MATERIAL GAUGES, BRACING AND CONSTRUCTION IN ACCORDANCE WITH THE LATEST SMACNA DUCT MANUAL STANDARDS. DRIVE SLIPS AND SNAP LOCK CONNECTIONS ARE NOT PERMITTED. TOTAL AIR VOLUME FOR LOW PRESSURE DUCT SYSTEMS SHALL BE AT LEAST 95% OF FAN SUPPLY WHEN MEASURED BY DUCT TRAVERSES TAKEN WITH A PITOT TUBE AND WATER MANOMETER. SHEET METAL MATERIALS SHALL BE AS FOLLOWS:

1)ASTM A527 WITH ASTM A525 ZINC COATING G90 GALVANIZED SHEET STEEL.

2)TYPE 316 STAINLESS STEEL.

D. ALL LOW PRESSURE SUPPLY AND EXHAUST DUCTWORK SHALL AT MINIMUM BE FABRICATED IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" WG CONSTRUCTION. LEAKAGE CLASS 8, SEAL CLASS A. SEAL ALL JOINTS, SEAMS, AND DUCT WALL PENETRATIONS. REFER TO DUCT PRESSURE CLASS SCHEDULE FOR ADDITIONAL REQUIREMENTS. METAL SHALL BE MINIMUM 26 GAUGE THICK.

E. IN ACCORDANCE WITH SMACNA STANDARDS, PROVIDE DUCTWORK, ACCESS DOORS TO ALL CONCEALED CONTROLS, FUSIBLE LINKS OF DAMPERS, ETC. MINIMUM SIZE SHALL BE 16'X16".

F. DUCT LINERS SHALL NOT BE PERMITTED.

H. SEALANTS SHALL COMPLY WITH THE FOLLOWING:

1)MASTICS: SUITABLE FOR APPLICATION AS A FILLET, IN GROOVES OR BETWEEN FLANGES. OIL BASED CAULKING AND GLAZING COMPOUNDS ARE NOT ACCEPTABLE.

2)GASKETS: SOFT ELASTOMER BUTYL OR EXTRUDED SEALANTS FOR USE IN FLANGED JOINTS.

3)TAPES: TAPES SHALL COMPLY WITH UL 181.

I. PROVIDE MANUAL OPPOSED BLADE DAMPERS IN EACH SPLIT OR TAP CONNECTION TO TRUNK DUCTS, AND WHERE OTHERWISE REQUIRED FOR BALANCING PURPOSES, EACH PROVIDED WITH QUADRANT STYLE OPERATOR AND LOCKING DEVICE. PROVIDE ACCESS DOORS AS REQUIRED AS NEEDED TO ACCESS DAMPERS ABOVE HARD CEILINGS.

J. INSTALL DOUBLE THICKNESS DIVERTING VANES AT ALL MITERED AND SHORT RADIUS ELBOWS.

K. PROVIDE 45 DEGREE ENTRY OR CONICAL TAPS.

L. PROVIDE HANGERS AND FASTENINGS ADEQUATE TO INSURE PERMANENT STABILITY AND IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS. WHERE REQUIRED, PROVIDE SUPPLEMENTARY STEEL ANGLES OR CHANNELS. DO NOT HANG OR SUPPORT ONE DUCT FROM ANOTHER.

M. DUCTWORK LAYOUTS AND ROUTES AS SHOWN ON THE DRAWING ARE SCHEMATIC; THEREFORE, CHANGES IN DUCT SIZES AND/OR LOCATIONS SHALL BE MADE WHERE NECESSARY TO CONFORM TO SPACE CONDITIONS OR OBTAIN MAXIMUM HEADROOM CONDITIONS WITHOUT ADDITIONAL COST TO THE OWNER.

N. AIR DIFFUSERS AND GRILLES SHALL BE LOCATED IN CONFORMANCE TO ARCHITECTURAL REFLECTED CEILING PLANS, WHERE SO INDICATED.

O. WHERE DUCTS ARE REQUIRED TO BE REMOVED, ALL OPENINGS IN REMAINING DUCTS SHALL BE CAPPED AIRTIGHT.

P. ALL NEW AND EXISTING LOW PRESSURE DUCTWORK SHALL BE CAULKED AND SEALED WITH DUCT SEALANT TO MAINTAIN A LEAKAGE RATE OF NO GREATER THAN 1 PERCENT OF AIR VOLUME OR AS OTHERWISE SPECIFIED.

Q. ROUND DUCTWORK TO BE SPIRAL TYPE, WITH RADIUS ELBOWS WITH r/D = 1.0 TO 1.5 PREFERRED FOR TURNS.

R. THE USE OF FLEXIBLE DUCT IS LIMITED TO 4 FEET MAXIMUM LENGTH. WHERE USED, COMPLY WITH THE FOLLOWING:

1)COMPLY WITH ASTM E96 AND UL 181

2)DUCT MATERIAL SHALL BE COMPATIBLE WITH TEMPERATURE AND CHEMICAL REQUIREMENTS OF APPLICATION.

3)PROVIDE STAINLESS STEEL BAND CLAMP WITH HEX SCREW TO TIGHTEN BAND WITH A WORM-GEAR ACTION FOR APPLICATIONS.

4)PROVIDE REINFORCEMENT ELBOW AT ALL TURNS FOR FLEXIBLE DUCT.

5)GMP NON-INSULATED APPLICATIONS:

a. WHITE ACRYLIC ON POLYESTER MATERIAL WITH MECHANICALLY BONDED GALVANIZED HELIX.

b. COATED FIBERGLASS WOVEN FABRIC WITH COATED SPRING STEEL WIRE HELIX.

6)NON-GMP AND NON-LABORATORY NON-INSULATED APPLICATIONS:

a. TWO-PLY VINYL FILM SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE.

b. BLACK POLYMER FILM SUPPORT BY HELICALLY WOUND, SPRING-STEEL WIRE.

c. MULTIPLE LAYERS OF ALUMINUM LAMINATE SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE.

d. ALUMINUM LAMINATE AND POLYESTER FILM WITH LATEX ADHESIVE SUPPORTED BY HELICALLY WOUND, SPRING-STEEL WIRE.

e. INTERLOCKING SPIRAL OF ALUMINUM FOIL.

5)NON-GMP AND NON-LABORATORY INSULATED APPLICATIONS:

a. SAME AS NON-INSULATED APPLICATIONS WITH FACTORY APPLIED FIBROUS-GLASS INSULATION; ALUMINIZED VAPOR-BARRIER FILM.

6)NON-GMP AND NON-LABORATORY INSULATED APPLICATIONS:

a. POLYESTER FILM SUPPORTED BY HELICALLY WOUND ENGINEERED POLYMER WIRE; FIBROUS-GLASS INSULATION; POLYESTER SCRIM REINFORCED, POLYESTER FILM VAPOR BARRIER.

7)GMP INSULATED APPLICATIONS:

a. POLYESTER FILM SUPPORTED BY HELICALLY WOUND ENGINEERED POLYMER WIRE; FIBROUS-GLASS INSULATION; POLYESTER SCRIM REINFORCED, POLYESTER FILM VAPOR BARRIER.

S. DUCT CLEANING:

1)CLEAN NEW AND EXISTING DUCT SYSTEM(S) BEFORE TESTING, ADJUSTING AND BALANCING.

2)CLEAN ALL AIR DEVICES, FANS, AHUS, RTUS, COILS AND RELATED COMPONENTS, DAMPERS, ACTUATORS, TURNING VANES AND DEDICATED EXHAUST AND VENTILATION COMPONENTS AND MAKE-UP AIR SYSTEMS.

3)WIPE DOWN ALL DUCTWORK WITH ISOPROPYL ALCOHOL. COMPLETELY CLEAN AND THOROUGHLY WASH ALL INTERNAL SURFACES USING A NONIONIC SURFACTANT, LOW PARTICULATE, LOW RESIDUE DETERGENT, AND WIPE DRY. USE A LINT FREE CLOTH TO REMOVE OIL AND VISIBLE PARTICULATES. DUCTWORK SHALL BE DELIVERED TO THE JOB SITE CAPPED AND WRAPPED IN SHRINK WRAP.

4)CLEANING PROCEDURES SHALL BE OBTAINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW PRIOR TO IMPLEMENTATION. PROCEDURES SHALL COMPLY WITH APPROPRIATE STANDARDS AND OWNER STANDARDS.

5)PROVIDE PHOTOGRAPHIC EVIDENCE OF DUCT CLEANING AS PART OF ACCEPTANCE.

T. DUCT SCHEDULE:

1)ALL DUCT SHALL BE GALVANIZED STEEL (MINIMUM 26 GAGE) EXCEPT AS FOLLOWS:

a. DUCTS EXPOSED TO THE WEATHER: DOUBLE-WALL, TYPE 304 STAINLESS STEEL.

b. DUCTWORK EXPOSED IN ROOMS: TYPE 316L STAINLESS STEEL, EXTEND 2'-0" PAST THE ROOM CONSTRUCTION.

c. GMP AREA RETURNS / EXHAUST GRILLES & CONNECTIONS: 316L STAINLESS STEEL FOR 6'-0" FROM CONNECTION POINT.

d. OTHER APPLICATIONS AND MATERIALS AS INDICATED ON THE DRAWINGS.

2)CLEAN NEW AND EXISTING DUCT SYSTEM(S) BEFORE TESTING, ADJUSTING AND BALANCING.

3)WITHIN BUILDING ENVELOPE ASSEMBLY: R-12 MINIMUM

D. ALL INSULATION SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION PROCEDURES.

E. INDOOR, FIELD-APPLIED JACKET: PVC JACKET

F. OUTDOOR, FIELD-APPLIED JACKET: ALUMINUM JACKET.

16. AIR ACCESSORIES, GRILLES, REGISTERS AND DIFFUSERS

A. FURNISH AND INSTALL ALL DIFFUSERS, GRILLES AND REGISTERS AS INDICATED ON DRAWINGS, USE ALL ALUMINUM GRILLES IN WET LOCATIONS AND STAINLESS STEEL AIR TERMINALS IN GMP AND LABORATORY AREAS. ALL SIZES, AIR DISTRIBUTION PATTERNS AND AIR VOLUME CAPACITIES SHALL BE AS SPECIFIED ON THE DRAWINGS.

B. AIR RETURN GRILLS AND REGISTERS SHALL BE PROVIDED WITH FIXED FACE LOUVERS PARALLEL TO THE LONG DIMENSION AND SET AT 45 DEGREE ANGLE. FOR REGISTERS, PROVIDE KEY OPERATED OPPOSED BLADE DAMPERS FIXEDLY ATTACHED TO THE GRILLES.

C. ALL AIR OUTLETS SHALL BE AS INDICATED ON THE DRAWINGS AND SCHEDULES.

D. ALL CEILING TYPE AIR DIFFUSERS SHALL BE PROVIDED WITH EQUALIZING DEFLECTOR AND VOLUME DAMPERS.

E. A SCHEDULE OF DIFFUSERS, GRILLES AND REGISTERS WITH MANUFACTURERS' MODELS, SIZES, ACCESSORIES, FINISHES, ETC., SHALL BE SUBMITTED FOR APPROVAL PRIOR TO RELEASE FOR FABRICATION AND DELIVERY.

F. BACKDRAFT AND PRESSURE RELIEF DAMPERS: MULTIPLE BLADE, PARALLEL ACTION, GRAVITY BALANCED WITH RETURN SPRINGS. MAXIMUM LEAKAGE OF 20 CFM/SQ. FT. FOR DAMPERS LESS THAN 24 INCHES IN EITHER DIRECTION, 40 CFM/SQ. FT. FOR DAMPERS GREATER THAN 24 INCHES IN EITHER DIRECTION.

G. MANUAL VOLUME DAMPERS: MULTIPLE OR SINGLE BLADE, PARALLEL OR OPPOSED-BLADE WITH LINKAGE OUTSIDE THE AIRSTREAM. DAMPER SHALL HAVE LOCKING QUADRANT OPERATOR, BEARINGS BOLTED TO FRAME WITH INTEGRAL SHAFT SEALS. STANDARD AND LOW-LEAK STEEL AND ALUMINUM MANUAL VOLUME DAMPERS. DAMPERS SHALL HAVE MANUAL HAND QUADRANT ACTUATOR.

H. CONTROL DAMPERS: OPPOSED-BLADE DESIGN, MATERIAL SHALL BE GALVANIZED-STEEL, STAINLESS-STEEL OR ALUMINUM FRAME AND BLADES TO MATCH DUCT APPLICATION WITH NEOPRENE BLADE SEALS. DAMPER SHALL HAVE LOCKING QUADRANT OPERATOR, BEARINGS BOLTED TO FRAME WITH INTEGRAL SHAFT SEALS. MAXIMUM LEAKAGE 3 CFM PER SQ. FT. AT 1 IN W.G. STATIC PRESSURE. DAMPERS SHALL HAVE MANUAL HAND QUADRANT ACTUATOR.

I. FIRE DAMPERS:

1)FIRE DAMPER: FACTORY FABRICATED FUSIBLE LINK SHUTTER TYPE MECHANISM OUT OF THE AIRSTREAM. UL LISTED AND LABELED RATED AND IN CONFORMANCE WITH NFPA DYNAMIC DAMPER WITH REPLACEABLE HEAT-RESPONSIVE DEVICE.

2)FIRE DAMPER: RUSKIN MODEL DIBD2 (1.5 HR RATED) OR MODEL DIBD23 (3 HR RATED) AS REQUIRED, TYPE "B", OR APPROVED EQUAL UL 555.

K. FLANGE CONNECTORS.

L. DUCT SILENCERS: FACTORY FABRICATED AND TESTED, ROUND OR RECTANGULAR.

M. TURNING VANES: DOUBLE-BLADE GALVANIZED SHEET STEEL.

N. REMOTE DAMPER OPERATORS

O. DUCT-MOUNTED ACCESS DOORS: DOUBLE-WALL, RECTANGULAR, GALVANIZED SHEET STEEL WITH INSULATION. PROVIDE WITH SASH LOCKS AND PIANO TYPE HINGE AND DOOR GASKETS.

P. PRESSURE RELIEF ACCESS DOOR: DOUBLE WALL WITH INSULATION FILL.

Q. FLEXIBLE CONNECTORS:

1)INDOOR SYSTEMS: GLASS FABRIC DOUBLE COATED WITH NEOPRENE AND WITH THRUST LIMITS FOR FLEXIBLE CONNECTORS AT HIGH-PRESSURE FAN DISCHARGE. MINIMUM WEIGHT 26 OZ./ SQ. YD, TENSILE STRENGTH 480 LBF/IN IN THE WARP AND 360 LBF/IN IN THE FILLING. (-50°F TO 250°F)

2)OUTDOOR SYSTEMS: GLASS FABRIC DOUBLE COATED WITH WEATHERPROOF, SYNTHETIC RUBBER RESISTANT TO UV RAYS AND OZONE AND WITH THRUST LIMITS FOR FLEXIBLE CONNECTORS AT HIGH-PRESSURE FAN DISCHARGE. MINIMUM WEIGHT 24 OZ./ SQ. YD, TENSILE STRENGTH 530 LBF/IN IN THE WARP AND 440 LBF/IN IN THE FILLING. (-50°F TO 250°F)

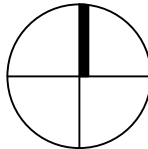
3)MAINTAIN CHEMICAL AND TEMPERATURE COMPATIBILITY BETWEEN CONNECTOR, ENVIRONMENT AND CONVEYED AIR AND MATERIALS.

T. DUCT ACCESSORY HARDWARE.

U. AIR TERMINALS WITHIN GMP AREAS SHALL BE 316 STAINLESS STEEL CONSTRUCTION.
-
- Stantec Consulting Services Inc.
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2 South Biscayne Boulevard
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Tel: (305) 462-8700
- www.stantec.com
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-
- Revision YYYXJMM.DD
- Issued 2023.02.15
- PERMIT SET
- CITY OF DORAL
- MORGAN LEVY PARK
RESTROOM RENOVATIONS
- 5300 NW 102nd AVENUE
Doral, FL 33178
- Title
- MECHANICAL
SPECIFICATIONS
- Project No.
- 227100129
- Revision
- Scale
- As indicated
- Drawing No.
- M-001

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CITY OF DORAL

5300 NW 102nd AVENUE
Doral, FL 33178

Project No. 227100129	Scale As indicated
Revision	Drawing No.

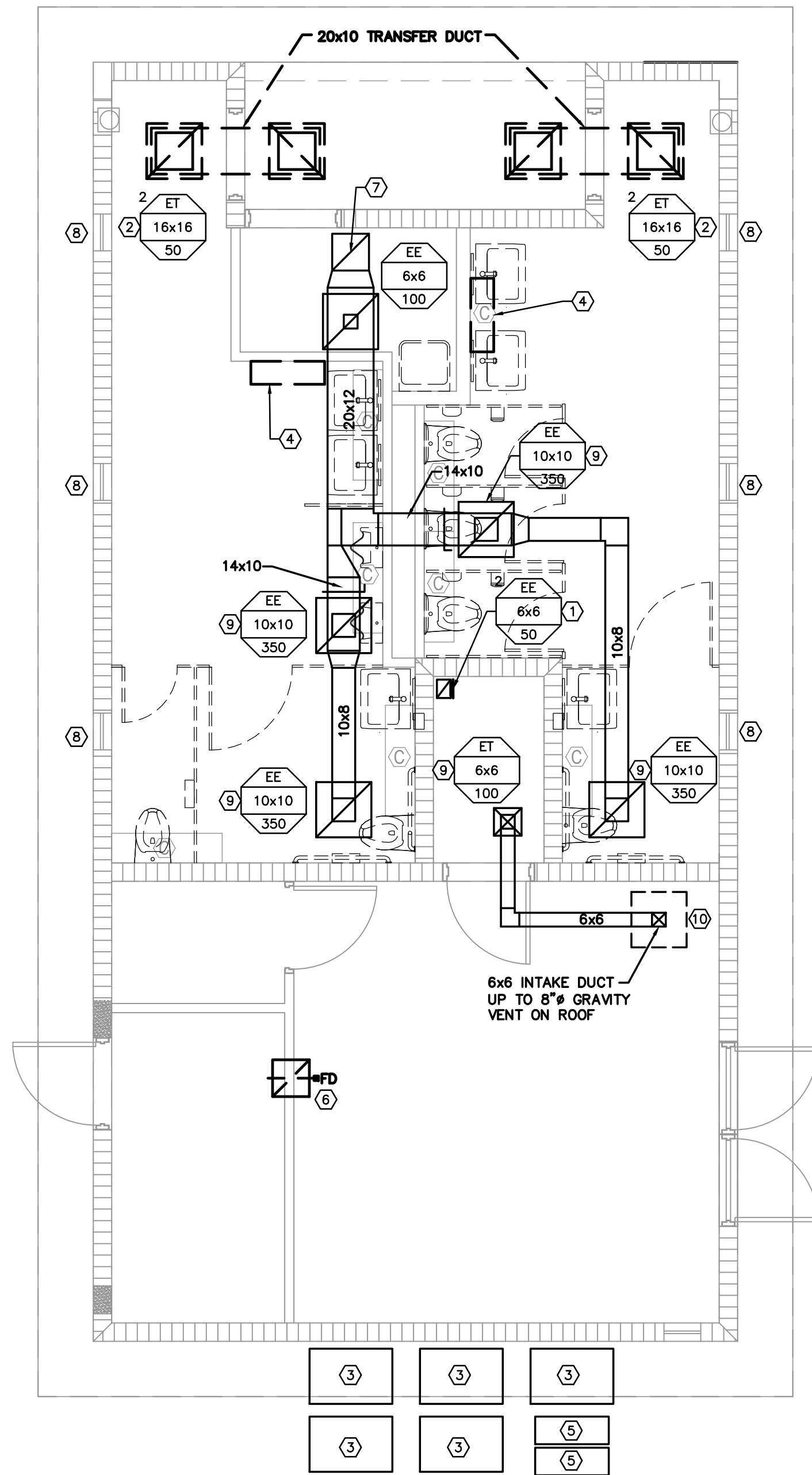
M-002

GENERAL DEMOLITION NOTES

- ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS.
- UNLESS NOTED OTHERWISE, ALL OTHER EXISTING HVAC SYSTEMS TO REMAIN IN SERVICE UNCHANGED.
- EXISTING GRILLES TO REMAIN TO BE RE-BALANCED TO CFM'S INDICATED ON PLAN.
- GRILLE TAG DESIGNATIONS ARE AS FOLLOWS:
 - ES = EXISTING SUPPLY
 - ER = EXISTING RETURN
 - EE = EXISTING EXHAUST
- PROVIDE BALANCING DAMPERS AT ALL BRANCHES AND SPLITS.
- PRESSURIZATION AIRFLOWS SHOWN ARE ESTIMATES. T&B CONTRACTOR SHALL ADJUST RETURN/EXHAUST AIRFLOWS, AS NEEDED, TO ACCOMPLISH TRANSFER AIR DIRECTIONAL FLOWS INDICATED. SUPPLY AIRFLOWS INDICATED ARE MINIMUM REQUIRED.

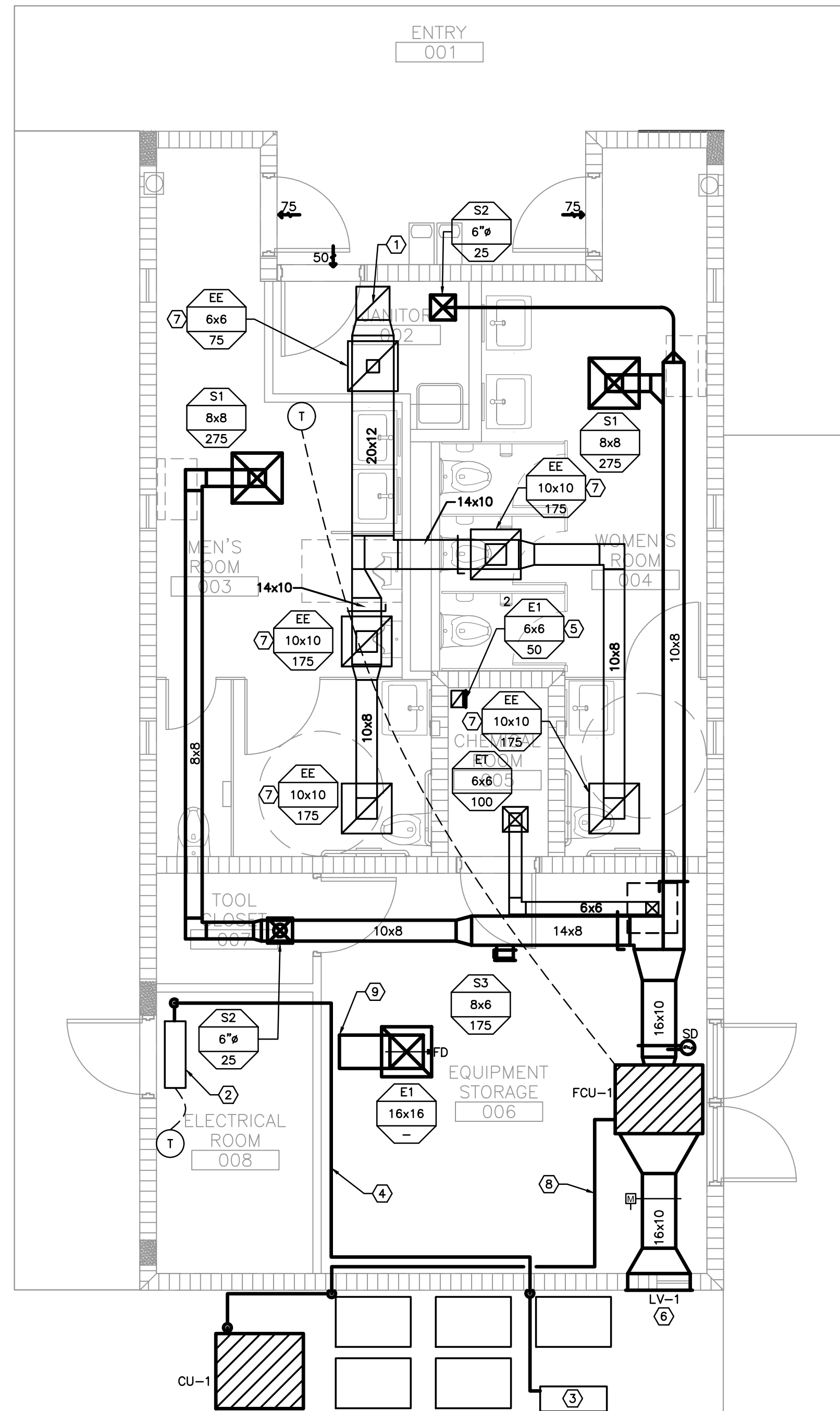
KEYED NOTES

- EXISTING EXHAUST GRILLES TO BE REPLACED WITH NEW.
- EXISTING TRANSFER GRILLES AND ASSOCIATED DUCTWORK TO BE DEMOLISHED.
- EXISTING CONDENSING UNITS TO REMAIN.
- EXISTING WALL MOUNTED MINI-SPLIT TO BE REMOVED AND CONDITION EVALUATED. THE UNIT IN BETTER CONDITION IS TO BE RELOCATED TO ELECTRICAL ROOM WITH THE OTHER UNIT BEING RETURNED TO OWNER. ALL EXISTING MINI-SPLIT PIPING TO BE DEMOLISHED.
- EXISTING MINI-SPLIT CONDENSING UNIT TO HAVE CONDITION EVALUATED. THE UNIT IN BETTER CONDITION IS TO REMAIN TO SERVE THE RELOCATED MINI-SPLIT WITH THE OTHER UNIT BEING RETURNED TO OWNER.
- EXISTING FIRE DAMPER TO BE REMOVED AND CEILING OPENING TO BE PATCHED. REFER TO NEW WORK FOR NEW DUCT CONNECTION AND CEILING PENETRATION.
- EXISTING RESTROOM EXHAUST FAN ON ROOF TO BE REPLACED WITH NEW.
- EXISTING LOW WALL LOUVERS TO BE REMOVED AND FILLED IN.
- EXISTING GRILLE TO REMAIN. REFER TO NEW WORK FOR NEW AIRFLOW BALANCE.
- EXISTING CEILING ACCESS PANEL TO REMAIN.



1
M-201 **DEMOLITION PLAN**

1/4"=1'-0"



2
M-201 **FLOOR PLAN**

1/4"=1'-0"

GENERAL NOTES

- ALL EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE APPROXIMATE AND BASED UPON A COMBINATION OF AVAILABLE RECORD DESIGN AND AS-BUILT DOCUMENTS.
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KEYED NOTES

- REFER TO FAN SCHEDULE FOR NEW EXHAUST FAN INFORMATION.
- NEW LOCATION FOR RELOCATED EXISTING MINI-SPLIT. UNIT TO BE MOUNTED MINIMUM 1'-0" ABOVE DOOR.
- LOCATION FOR EXISTING MINI-SPLIT CONDENSING UNIT TO REMAIN.
- PROVIDE NEW SUPPLY/RETURN REFRIGERANT PIPING FOR EXISTING MINI-SPLIT AS SHOWN.
- NEW EXHAUST GRILLES TO BE INSTALLED IN SAME PLACE AS PREVIOUS.
- PROVIDE NEW 30x18 INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. MINIMUM 1.6 SQ. FT FREE AREA REQUIRED.
- EXISTING GRILLE TO BE RE-BALANCED TO CFM INDICATED.
- NEW FCU-1 REFRIGERANT SUPPLY/RETURN PIPING. CONNECT NEW 16x16 EA DUCT TO EXISTING DUCT IN ATTIC SPACE CONNECTED TO EXISTING EXHAUST FAN.

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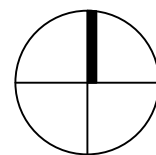
CITY OF DORAL MORGAN LEVY PARK RESTROOM RENOVATIONS

5300 NW 102nd AVENUE
Doral, FL 33178

Title
MECHANICAL
DEMOLITION AND
NEW WORK PLAN

Project No. 227100129 Scale As indicated
Revision Drawing No.

M-201

[illegible]

Revision

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Issued

2023.02.15

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CITY OF DORAL

MORGAN LEVY PARK RESTROOM RENOVATIONS

5300 NW 102nd AVENUE
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Title _____

Title _____

Title

MECHANICAL SCHEDULES

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Scale

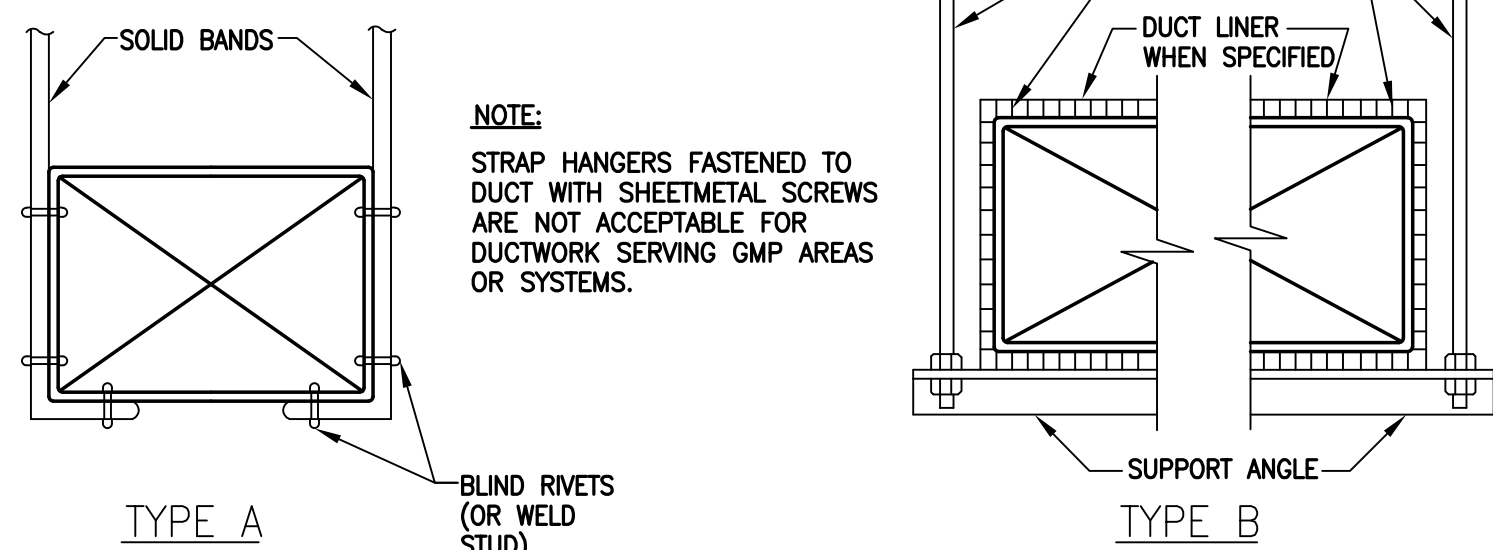
227100129

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Revision

Drawing No

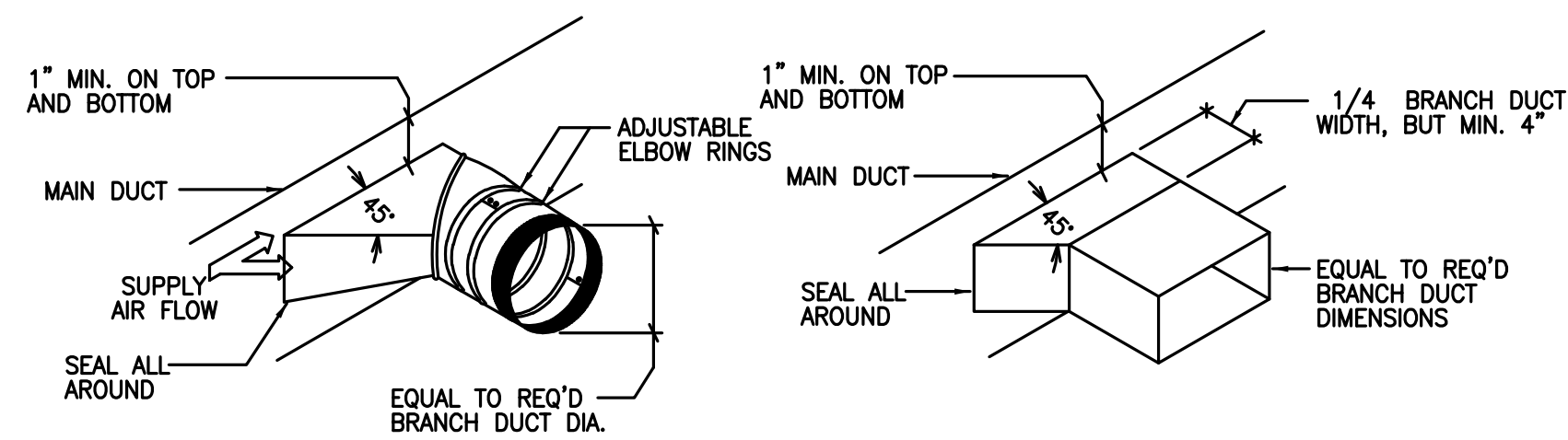
M-601



DUCT WIDTH	ROD DIAMETER	TYPE	SUPPORT ANGLE	MAX. SPACING
UP TO 24"	USE 1" x 1/8"	A	NONE	4'-0" O.C.
25" TO 36"	3/8"	B	1 1/2" x 1 1/2" x 1/8"	8'-0" O.C.
37" TO 48"	3/8"	B	2" x 2" x 1/8"	8'-0" O.C.
49" TO 60"	3/8"	B	2" x 2" x 3/16"	6'-0" O.C.
61" TO 84"	3/8"	B	2" x 2" x 1/4"	6'-0" O.C.
ABOVE	3/8"	B	SELECT FOR 1/2" MAX. DEFLECTION AT DES. LD	6'-0" O.C.

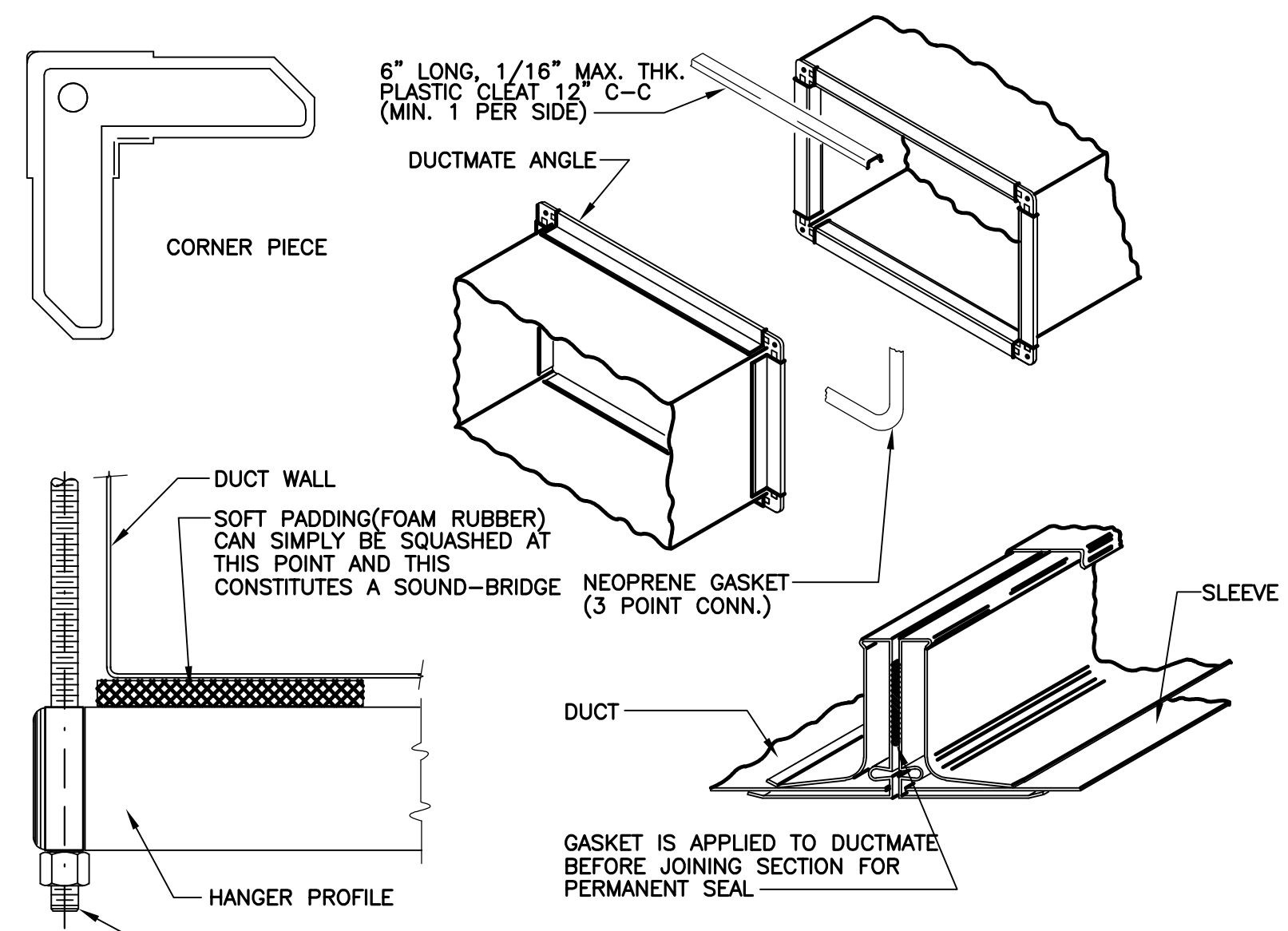
DUCTWORK HANGER

NOT TO SCALE



TYPICAL DUCT TAKE-OFF CONNECTION

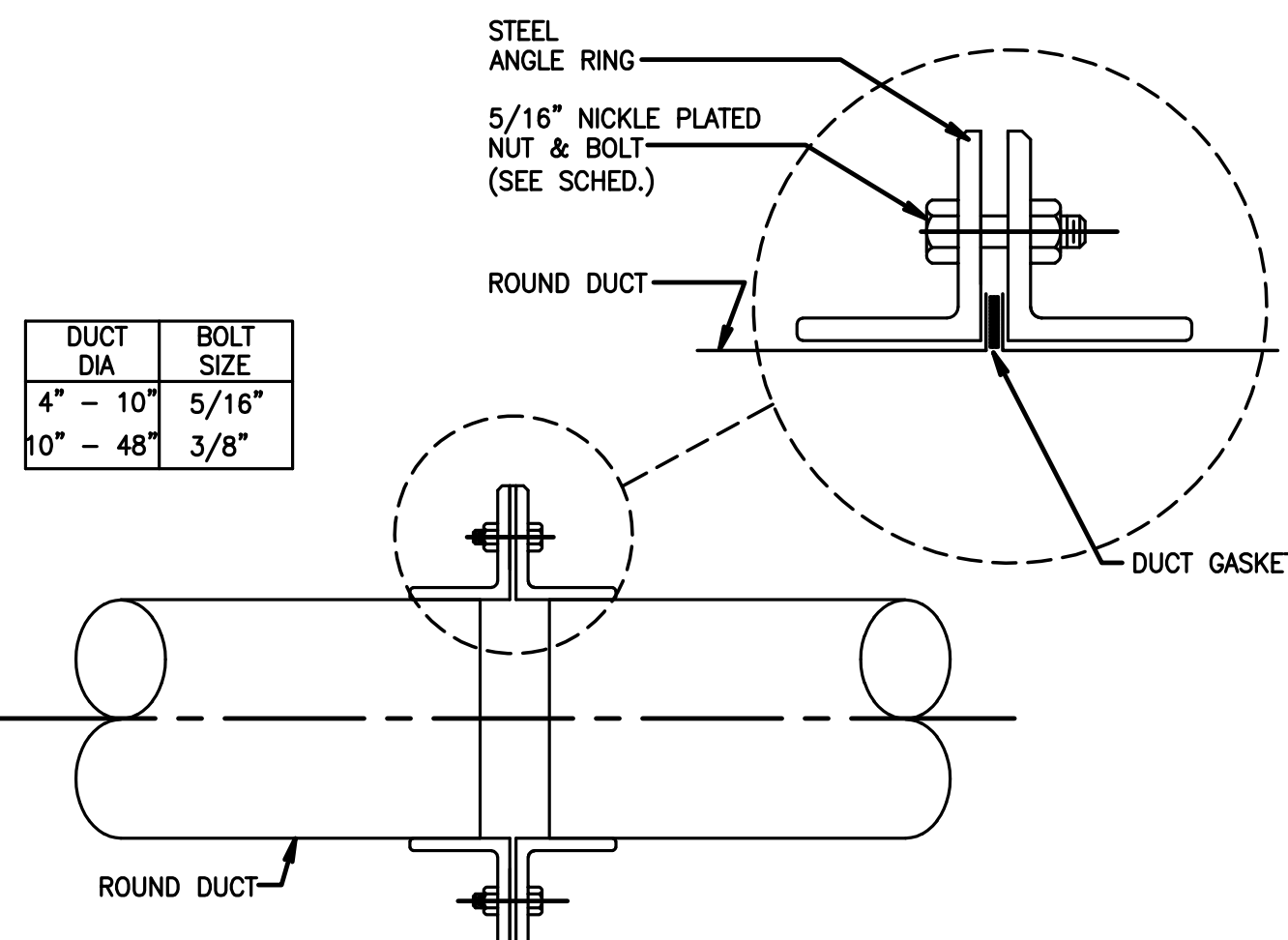
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- NOTES:
- CONTRACTOR MAY USE TDC TYPE FLANGED JOINTS PROVIDED SPECIFIED MAXIMUM LEAKAGE RATES ARE NOT EXCEEDED. NON-FLANGED TYPE SLIP AND DRIVE CONNECTIONS ARE ACCEPTABLE ONLY FOR NON-GMP AREAS.
 - ALL GMP SYSTEMS TO HAVE DUCTMATE FLANGED JOINTS OR EQUAL. SLIP AND DRIVE JOINTS ARE NOT ACCEPTABLE ON GMP DUCT SYSTEMS.
 - CONTRACTOR MAY USE TDC TYPE FLANGED JOINTS PROVIDED SPECIFIED MAXIMUM LEAKAGE RATES ARE NOT EXCEEDED. NON-FLANGED TYPE SLIP AND DRIVE CONNECTIONS ARE NOT ACCEPTABLE.

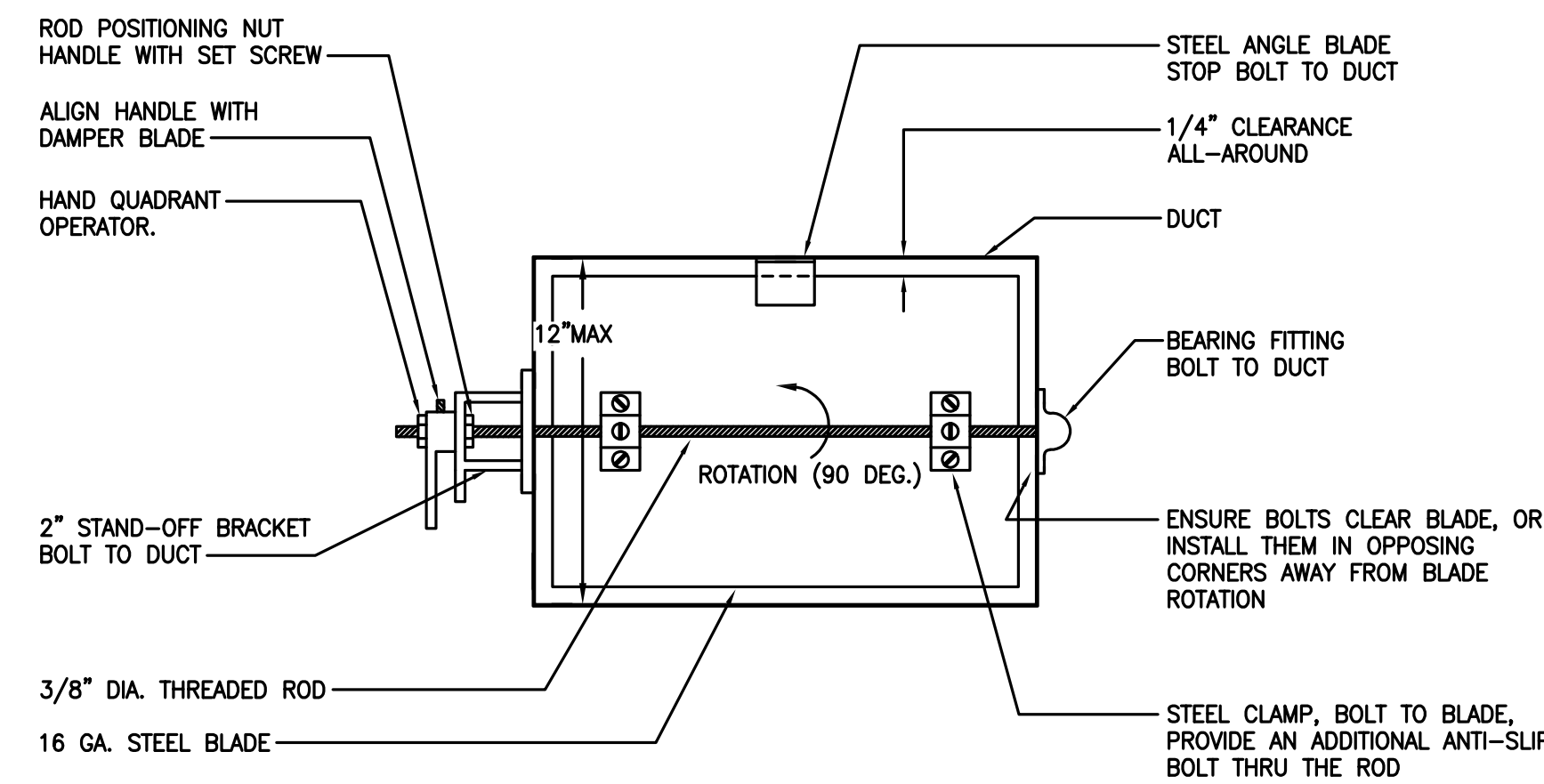
DUCTMATE INSTALLATION

NOT TO SCALE



DETAIL OF ROUND DUCT FLANGED CONNECTION

NOT TO SCALE

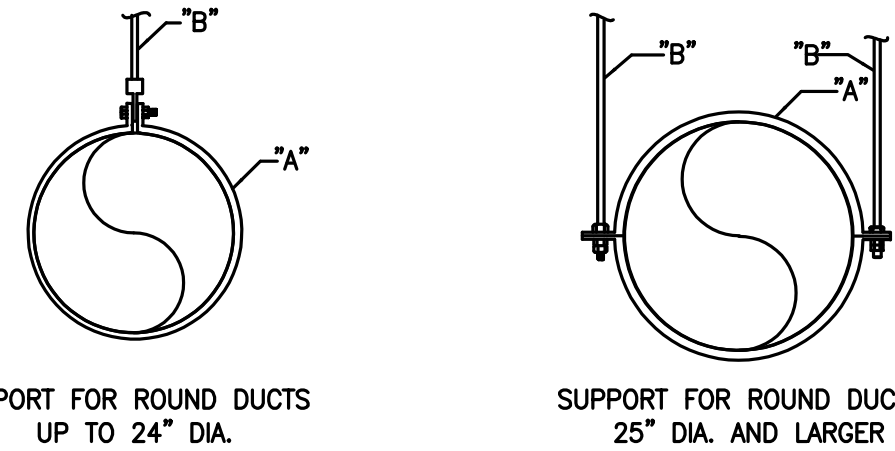


- NOTES:
- DAMPERS FOR ROUND DUCTS SHALL BE SIMILAR TO THE DAMPER SHOWN ABOVE.
 - ENSURE THAT FULL 90° DAMPER BLADE MOVEMENT IS UNOBSTRUCTED.

MANUAL DAMPER (ADJUSTABLE SINGLE-BLADE BALANCING TYPE)

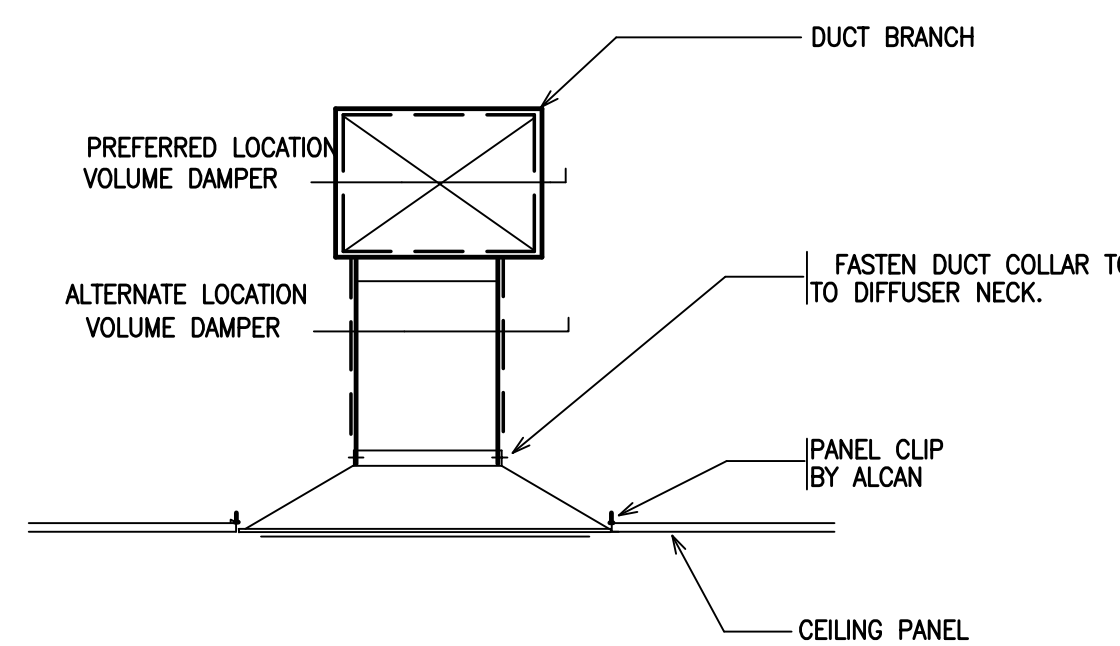
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DUCT SIZE	"A" FLAT BAR	"B" ROD DIA
UP TO 24"	1"x1/8"	3/8"
25" TO 41"	1"x1/8"	3/8"
42" AND UP	1-1/2"x 3/16"	1/2"



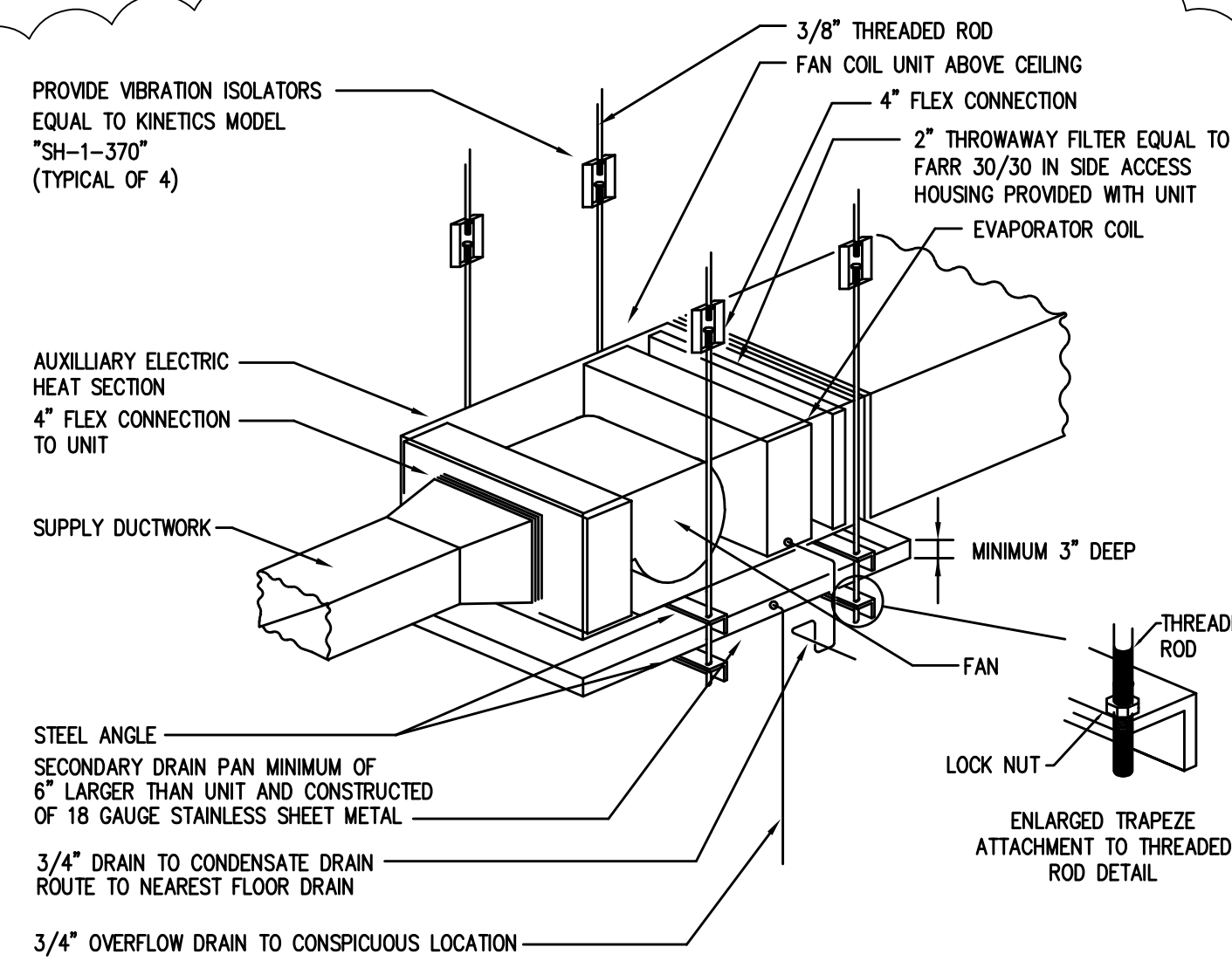
ROUND DUCT HANGER

NOT TO SCALE



TYPICAL DIFFUSER CONNECTION

NOT TO SCALE

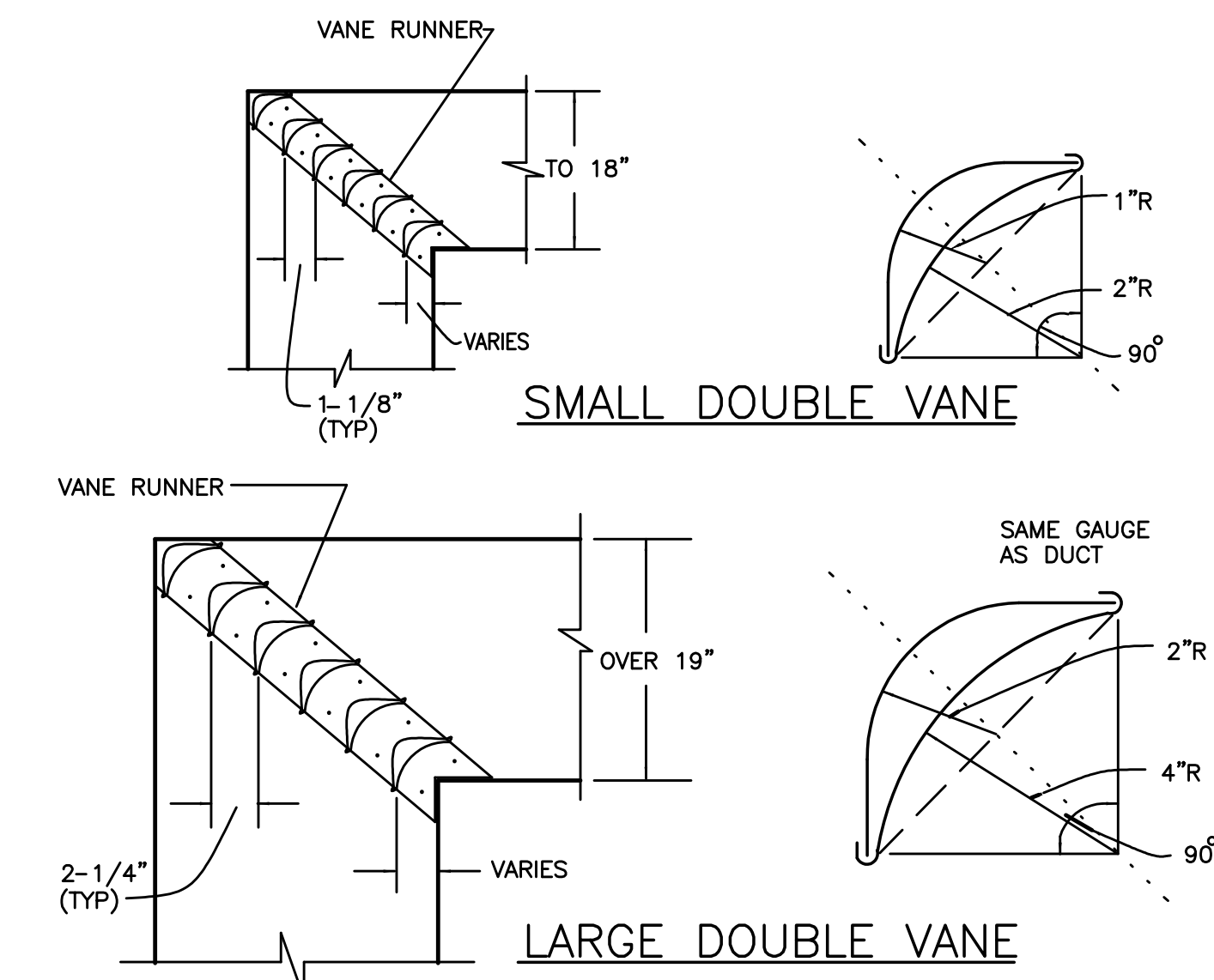


NOTE: CONTRACTOR SHALL PROVIDE REQUIRED SIZED THREADED ROD AND TRAPEZE ANGLES FOR SUPPORTING MECHANICAL EQUIPMENT. TABLES ARE GUIDES FROM SMACNA HVAC DUCT CONSTRUCTION STANDARDS. CONTRACTOR SHALL REFER TO SMACNA FOR EQUIPMENT WEIGHING MORE THAN 920 LBS. AND REQUIRING TRAPEZE ANGLE MORE THAN 36° IN LENGTH.

THREADED ROD SIZE	ALLOWABLE MAX. LOAD	TRAPEZE ANGLES 36° IN LENGTH	ALLOWABLE MAX. LOAD
3/8"	680 LBS.	1-1/2"x1-1/2"x1/8"	340 LBS.
1/2"	1250 LBS.	1-1/2"x1-1/2"x3/16"	500 LBS.
5/8"	2000 LBS.	2"x2"x1/8"	620 LBS.
3/4"	3000 LBS.	2"x2"x3/16"	920 LBS.

FAN COIL UNIT INSTALLATION DETAIL

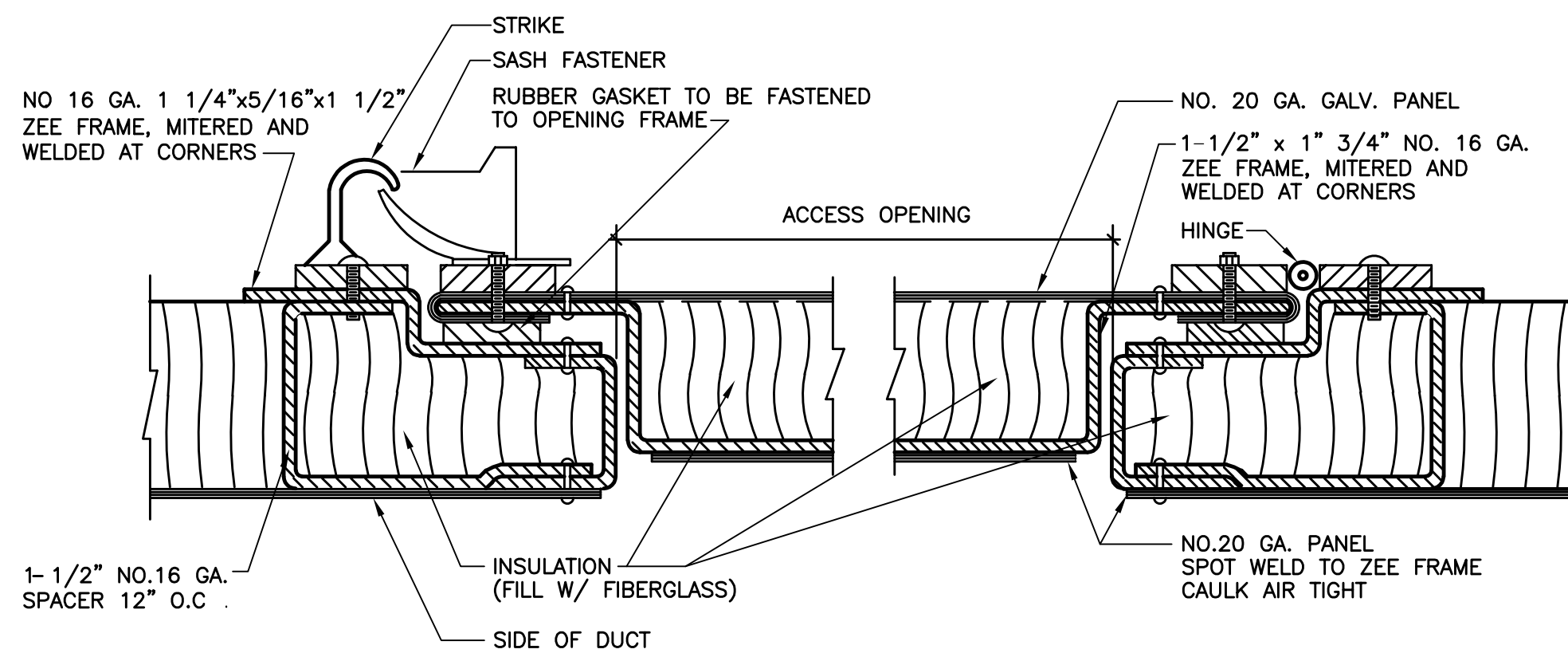
NOT TO SCALE



- NOTES:
- CONTRACTOR MAY USE TDC TYPE FLANGED JOINTS PROVIDED SPECIFIED MAXIMUM LEAKAGE RATES ARE NOT EXCEEDED. NON-FLANGED TYPE SLIP AND DRIVE CONNECTIONS ARE ACCEPTABLE ONLY FOR NON-GMP AREAS.
 - ALL GMP SYSTEMS TO HAVE DUCTMATE FLANGED JOINTS OR EQUAL.

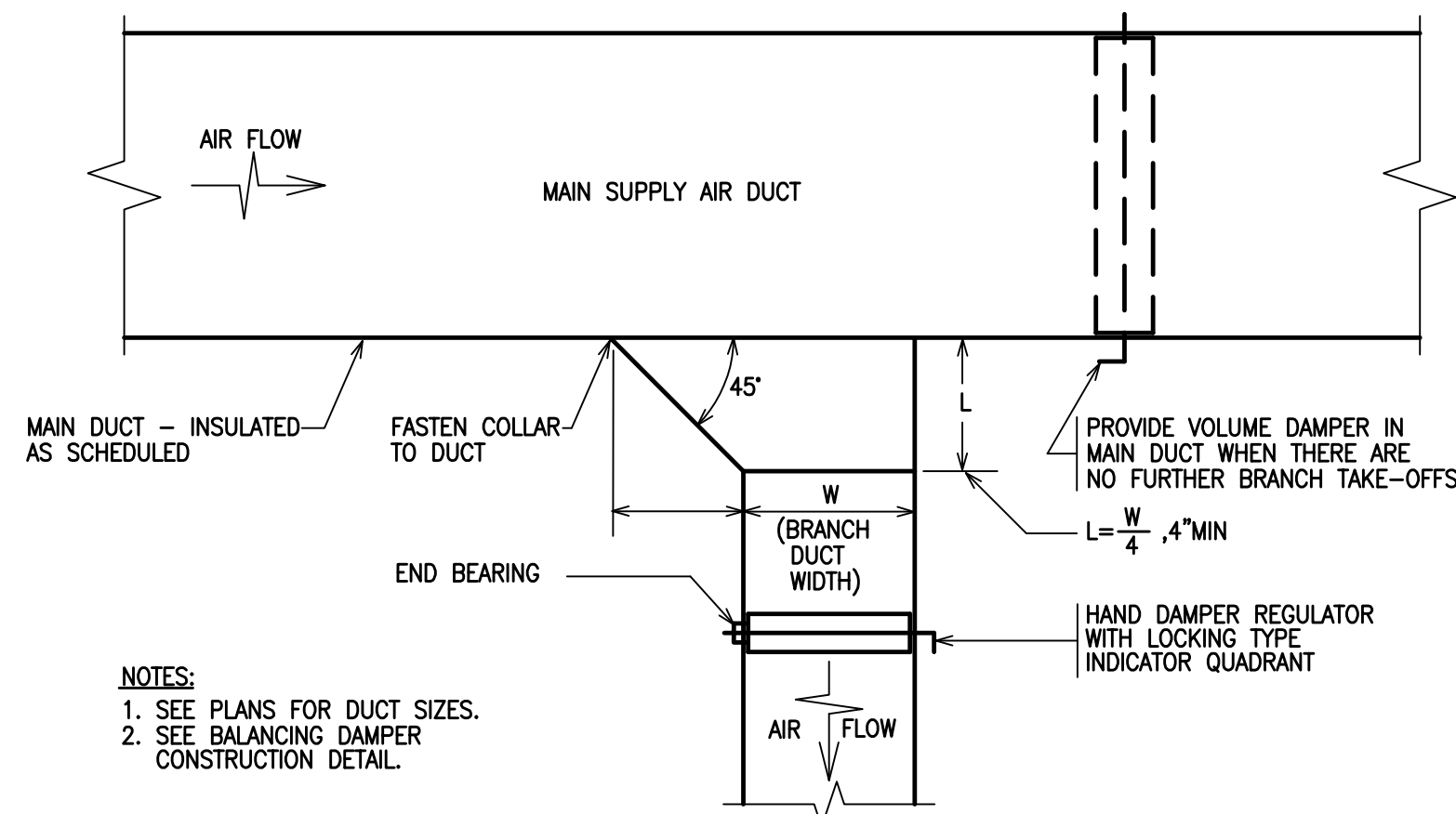
DUCT-TURN INSTALLATION

NOT TO SCALE



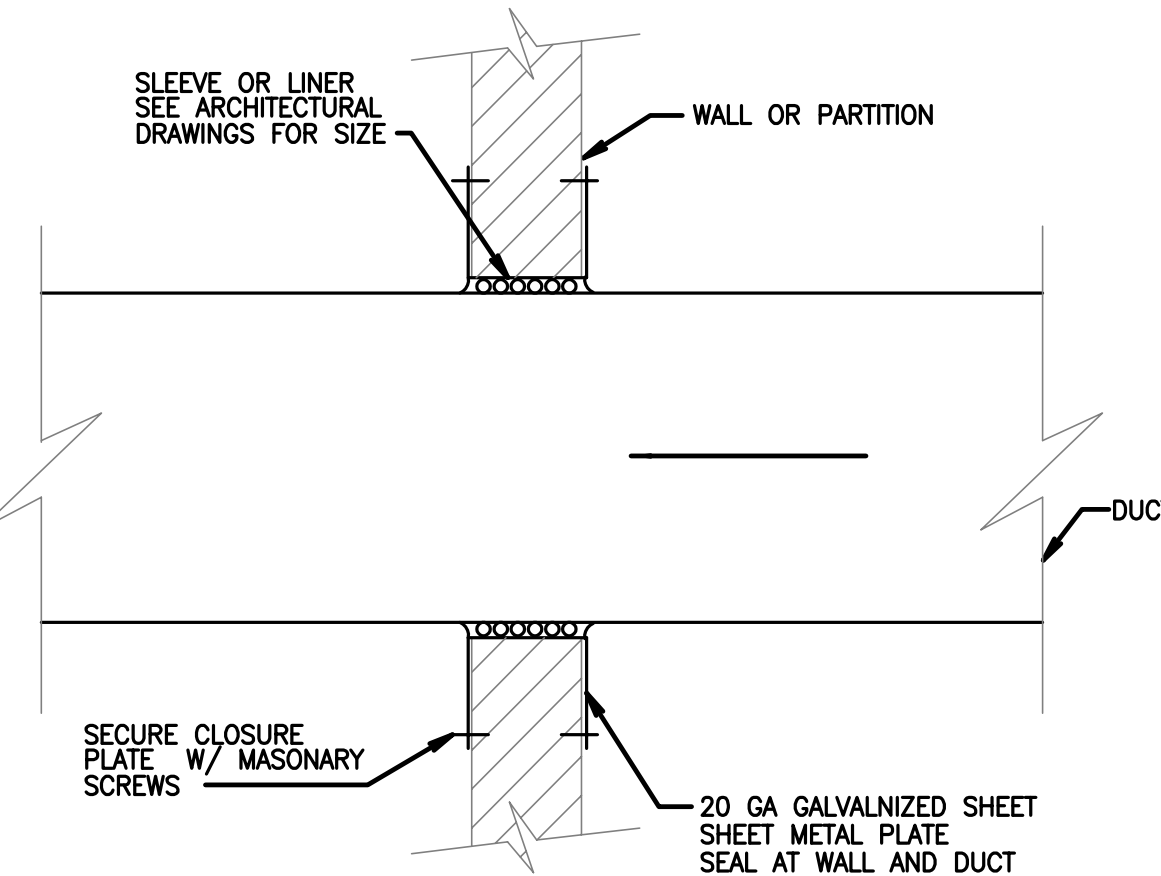
DUCTWORK ACCESS PANEL INSTALLATION

NOT TO SCALE



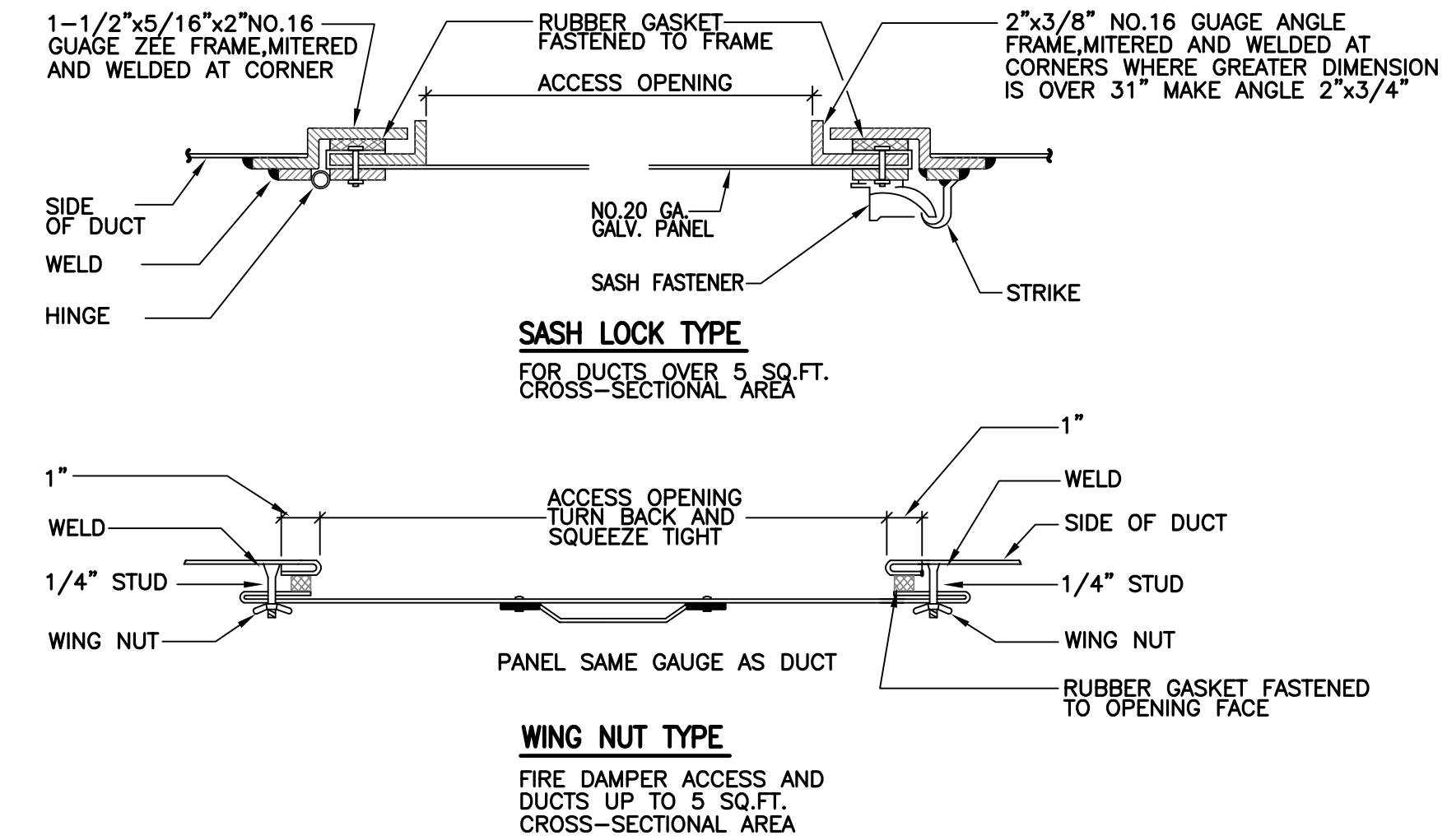
TYPICAL DETAIL OF RECTANGULAR SUPPLY AIR DUCT TAP (WITH VOLUME DAMPERS)

NOT TO SCALE



DUCT PENETRATION THRU NON-RATED FIRE WALL

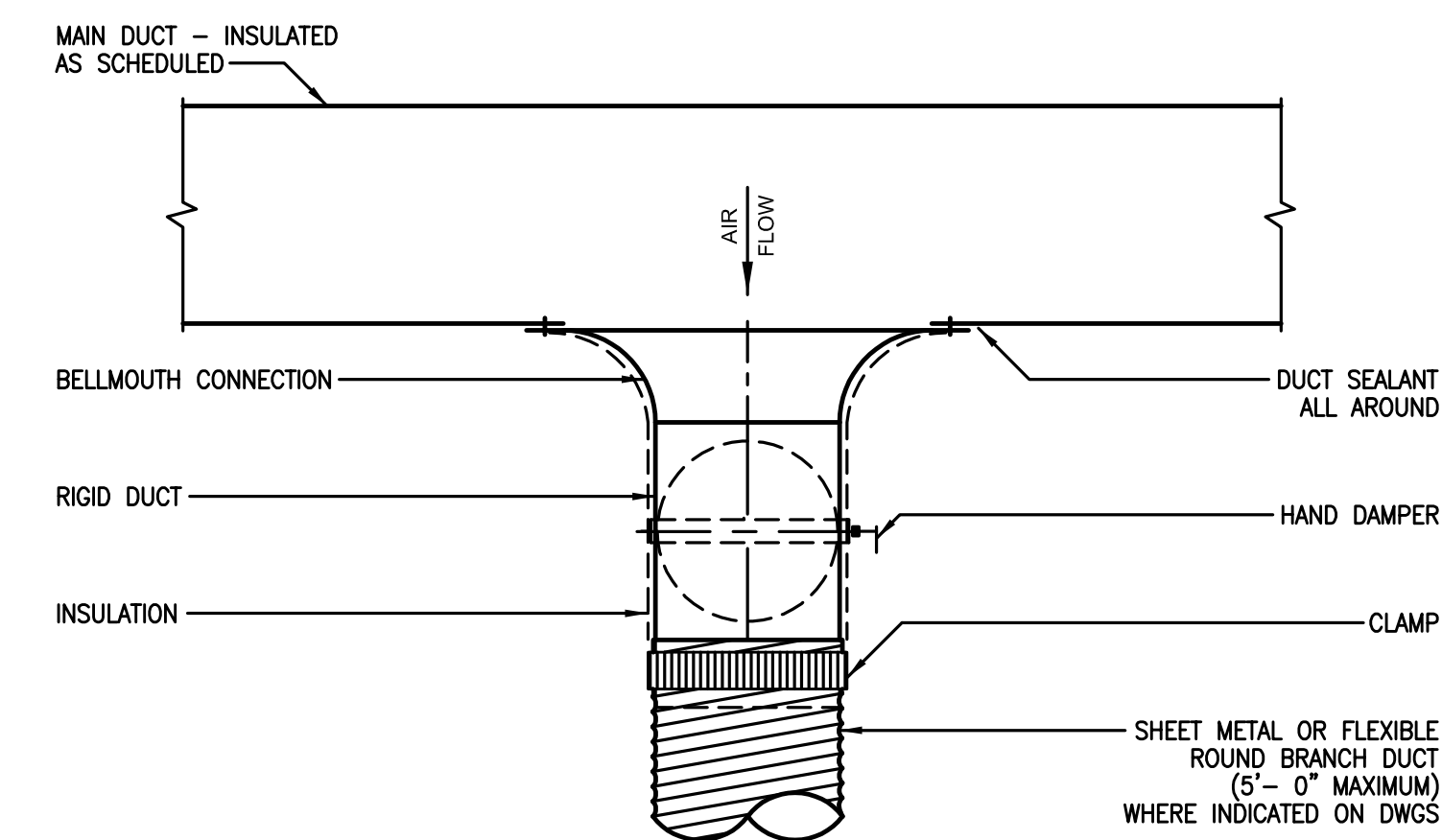
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DUCTWORK ACCESS PANEL INSTALLATION

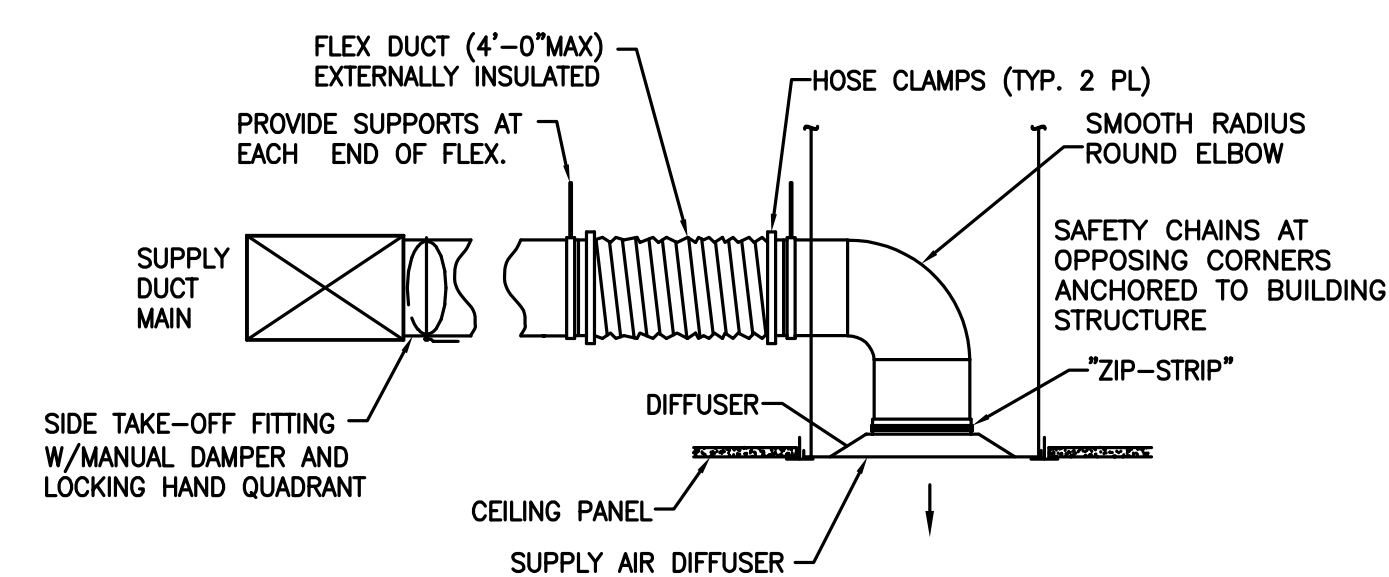
UNINSULATED DUCT

NOT TO SCALE



TYPICAL DETAIL OF ROUND SUPPLY AIR DUCT TAP (WITH VOLUME DAMPERS)

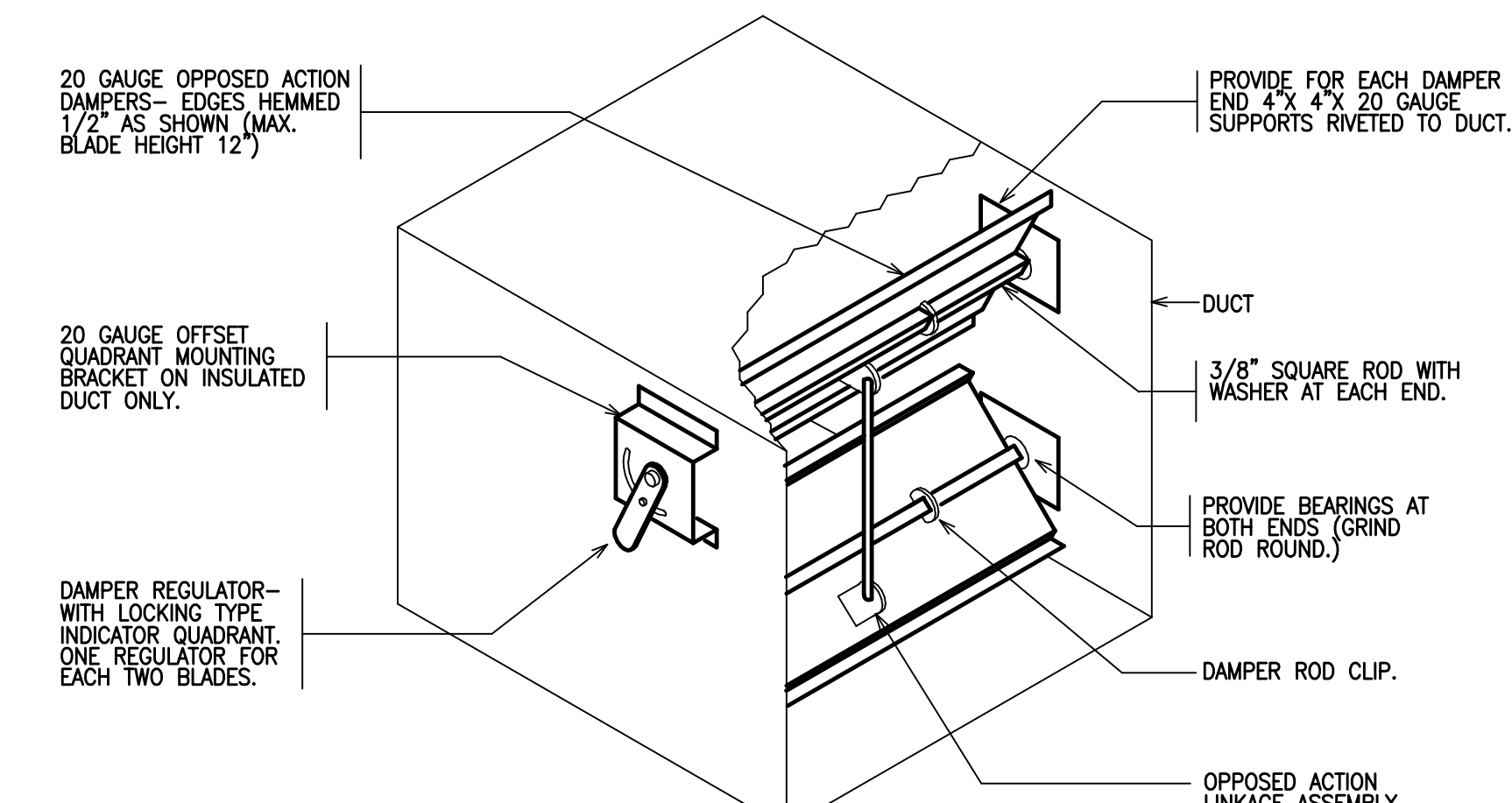
NOT TO SCALE



- NOTES:
- FLEXIBLE DUCT SHALL ONLY BE USED FOR STANDARD DIFFUSERS. FLEX DUCT TO TERMINAL FILTER HOUSINGS SHALL NOT BE ACCEPTABLE.

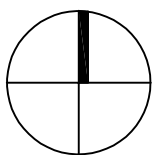
TYPICAL DIFFUSER CONNECTION

NOT TO SCALE



LOW PRESSURE BALANCING DAMPER

NOT TO SCALE



PERMIT SET

CITY OF DORAL MORGAN LEVY PARK RESTROOM RENOVATIONS

5300 NW 102nd AVENUE
Doral, FL 33178

Title
MECHANICAL DETAILS

SYMBOLS	
SYMBOL	DESCRIPTION
---	SANITARY PIPING BELOW GRADE
---	SANITARY PIPING ABOVE GRADE
---	VENT PIPING
---ST---	STORM WATER PIPING
---ST---	STORM WATER PIPING BELOW GRADE
---ED---	EJECTOR DISCHARGE
---SD---	SUMP DISCHARGE
---	COLD WATER PIPING
---	HOT WATER PIPING
////////	EXISTING PIPING TO BE REMOVED
XXXXX	EXISTING PIPING TO BE ABANDONED
●	BALL VALVE
●	SHUT-OFF VALVE
●	CHECK VALVE
⌒	PRESSURE REDUCING VALVE
⌒	BALANCING VALVE ASSEMBLY
○	COCK VALVE
⌒	VALVE IN VERTICAL
○	MIXING VALVE
○	PIPE DROP OR DOWN
⌒	PIPE CONNECTION, TOP
⌒	PIPE CONNECTION, BOTTOM
○	PIPE RISE OR UP
○	*P* TRAP
+	CLEANOUT
⊗	CLEANOUT DECK PLATE
⌒	CAPPED OUTLET
⌒	VENT THROUGH ROOF
⊗	FLOOR DRAIN
⊗	FLOOR SINK
⊗	ROOF DRAIN, AREA DRAIN
⊗	YARD HYDRANT
+	HOSE BIBB
⌒	WALL HYDRANT
⌒	VACUUM BREAKER ASSEMBLY
⌒	THERMOMETER
⌒	PRESSURE GAUGE W/VALVE
⌒	BACKFLOW PREVENTER
⌒	WATER FILTER
⌒	FLOOR, AREA DRAIN (RISER)
⌒	ROOF DRAIN (RISER)
⌒	WATER HAMMER ARRESTOR
⌒	METER
⌒	PUMP
➡	DIRECTION OF FLOW
⌒	PIPE BREAK
⌒	POINT OF CONNECTION NEW PIPE TO EXISTING
⌒	RISER DESIGNATION
⌒	LEADER DESIGNATION
⌒	EQUIPMENT DESIGNATION
⌒	MOISTURE SENSOR

ABBREVIATIONS	
SYMBOL	DESCRIPTION
AD	AREA DRAIN
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CLG	CEILING
COOP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CTE	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER PIPING
DIA	DIAMETER
DFU	DRAINAGE FIXTURE UNIT VALUES
DN	DOWN
DR	DRAIN
DWG	DRAWING
ED	EJECTOR DISCHARGE
EA	EACH
EL	ELEVATION
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXIST	EXISTING
FAI	FRESH AIR INLET
FD	FLOOR DRAIN
FS	FLOOR SINK
F.F.	FINISH FLOOR
FL	FLOOR
FPC	FLORIDA PLUMBING CODE
GD	GUTTER DRAIN
GH	GROUND HYDRANT
HB	HOSE BIBB
HW	DOMESTIC HOT WATER PIPING
HWR	DOMESTIC HOT WATER RETURN PIPING
INVEL	INVERT ELEVATION
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NFH	NON FREEZE HYDRANT
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
PD	PUMP DISCHARGE
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
REX	REMOVE EXISTING
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
S	SANITARY WASTE
SD	SUMP (PUMP) DISCHARGE
SF	SQUARE FEET
ST	STORM WATER PIPING
TD	TRENCH DRAIN
TYP	TYPICAL
V	VENT PIPING
VF	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE PIPING
W/	WITH
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WSFU	WATER SUPPLY FIXTURE UNIT VALUE
YH	YARD HYDRANT

NOTE:
SYMBOLS AND ABBREVIATIONS LIST IS PROVIDED FOR
CONVENIENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS
ARE NECESSARILY USED IN THIS PROJECT.

GENERAL PLUMBING NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
- COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF WORK.
- ALL DRAINAGE SYSTEM DESIGN IS BASED ON 1/4" PER FOOT MINIMUM FALL FOR PIPES 2 1/2" OR LESS; 1/8" PER FOOT MINIMUM FALL FOR PIPES 3" TO 6", AND 1/16" PER FOOT MINIMUM FOR PIPES 8" OR LARGER. GREASE WASTE IS BASED ON 1/4" PER FOOT MINIMUM FALL FOR ALL SIZES. ANY DEVIATION SHALL BE APPROVED BY ARCHITECT/ENGINEER.
- PROVIDE CLEAN-OUTS AT BASES, AND HORIZONTAL OFFSETS OF ALL SANITARY STACKS AND STORM DOWNSPOUTS.
- SANITARY AND VENT PIPING INDICATED IS ABOVE CEILING. REFER TO INDIVIDUAL STACK DIAGRAMS FOR WASTE AND VENT PIPING RUN WITHIN WALLS
- ALL SHUT-OFF VALVES SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING, OR ABOVE AN ACCESS DOOR IN A CYPSSUM CEILING.
- ALL FIRE-STOPPING SHALL BE DONE BY THE CONTRACTOR PERFORMING THE WORK REQUIRING THE PENETRATION. REFER TO THE DETAILS PERTAINING TYPE AND METHOD REQUIRED.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE FBC PLUMBING 2020 EDITION AND THE 2020 ACCESSIBILITY CODE

PLUMBING SPECIFICATIONS

- A. GENERAL:
- WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, SUPPLIES AND COMPONENTS AS PERFORMING ALL OPERATIONS AS NECESSARY FOR THE INSTALLATION OF THE COMPLETE PLUMBING SYSTEM.
 - INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - SUBMIT MANUFACTURER'S DATA AND SHOP DRAWINGS ON ALL EQUIPMENT FOR REVIEW BEFORE INSTALLATION.
 - ALL DIMENSIONS AND ACTUAL CONSTRUCTION CONDITIONS MUST BE VERIFIED AT THE JOB SITE.
 - THE CONTRACTOR PERFORMING THE WORK SHALL COORDINATE ALL HIS WORK WITH OTHER TRADES AND FIELD CONDITIONS.
 - PLUMBER SHALL NOT DEVIATE FROM THE SANITARY CONNECTION FORMAT WITHOUT ENGINEER'S APPROVAL.
 - THE CONTRACTOR PERFORMING THE WORK, PRIOR TO SUBMITTING HIS BID PRICE, SHALL VISIT THE SITE, FAMILIARIZE HIMSELF WITH ALL FIELD CONDITIONS, AND SHALL OBTAIN ALL REQUIRED INFORMATION NECESSARY TO COMPLETE THE JOB. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND ACTUAL WORK REQUIRED TO COMPLETE THE JOB SHALL BE TAKEN INTO ACCOUNT IN THE BID PRICE.
- B. SANITARY WASTE, STORM AND VENT PIPING:
- SHALL BE PVC SCHEDULE 40, WHEN NOT IN A RETURN AIR PLENUM, OR COPPER TYPE "M" VENT WHEN IN PLENUM.
 - ALL SANITARY, STORM HORIZONTAL PIPING SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM FALL FOR PIPES 2 1/2" OR LESS; 1/8" PER FOOT MINIMUM FALL FOR PIPES 3" TO 6", AND 1/16" PER FOOT MINIMUM FOR PIPES 8" OR LARGER
- C. CONDENSATE PIPING:
- A/C CONDENSATE SHALL BE COPPER TYPE "M", WHEN NOT IN A RETURN AIR PLENUM, OR COPPER TYPE "L" WHEN IN PLENUM. INSULATE ALL RUNS WITH 1/2" FIBERGLASS INSULATION WITH ALL SERVICE JACKET INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR 1/2" ARMAFLEX.
- D. PIPE HANGERS AND SUPPORTS:
- PROVIDE ADJUSTABLE HANGERS, INSERTS AND SUPPLEMENTARY STEEL AS REQUIRED FOR PROPER SUPPORT OF PIPE LINES. PHD MANUFACTURING PIPE HANGERS & DEVICES.
- E. CLEANOUTS:
- CLEANOUTS SHALL BE PROVIDED AND INSTALLED AT CHANGE OF DIRECTION ON ALL SOIL OR WASTE PIPING.
 - CLEANOUT COVERS:
WALLS - MIFAB #C1430-RD STAINLESS STEEL FINISH
RESILIENT FLOORS - MIFAB #C1220 SERIES
CONCRETE FLOORS - MIFAB #C1226 SERIES
- F. EXECUTION:
- ALL WATER PIPING SHALL BE TESTED AT 100 PSIG, STERILIZED AND FLUSHED BEFORE CONNECTION TO BUILDING SYSTEMS.
 - ESCUTCHEONS:
 - ESCUTCHEONS SHALL BE PROVIDED AND INSTALLED ON ALL PIPES PASSING THROUGH WALLS, FLOORS AND CEILINGS OF FINISHED AREAS. PROVIDE CHROME PLATED OR STAINLESS STEEL ESCUTCHEONS WITH SET SCREWS FOR HOLDING SECURELY IN PLACE.
 - LOCKER ROOM: ONE-PIECE, CLEANROOM TYPE: HYGIENIC WHITE SILICONE SELF-SEALING BOOT WITH 316 STAINLESS STEEL FLANGE WITH FLAT PRE-DRILLED MOUNTING HOLES. MAXIMUM TEMPERATURE RATING OF 500°F AND IP34 RATING. PIPEFITE BY CSI OR APPROVED EQUAL.

PLUMBING DEMOLITION NOTES

- THIS CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS, EXAMINE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. SINCE THE WORK INVOLVES EXISTING BUILDINGS, SYSTEMS AND FACILITIES, SPECIAL CONSIDERATION SHALL BE GIVEN TO EXAMINATION OF WORKING CONDITIONS, EXISTING FACILITIES AND ALL BUILDING STRUCTURES. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS LIGHT VARIATION OF ROUTING AND OR CONSTRUCTIONS SHOULD BE ANTICIPATED BY THIS CONTRACTOR TO AVOID CONFLICTS WITH OTHER TRADES. THESE ARE EXPRESSLY INCLUDED AS PART OF THE WORK WHENEVER REQUIRED AT NO ADDITIONAL COST TO THE OWNER. IGNORANCE ON THE PART OF THE CONTRACTOR WILL IN NO WAY RELIEVE HIM OF THE OBLIGATIONS AND RESPONSIBILITIES ASSUMED UNDER THIS CONTRACT.
- THE PLUMBING SCOPE OF WORK CONSISTS OF REMOVING EXISTING PLUMBING FIXTURES, TRIMS AND ASSOCIATED ACCESSORIES TO THE EXISTING FIXTURE ROUGH-IN AT THE WALL. AN ADD ALTERNATE PROPOSAL SHALL BE PROVIDED TO REPLACE ALL DOMESTIC WATER PIPING, SANITARY WASTE PIPING, SANITARY VENT PIPING, AND ASSOCIATED ACCESSORIES INCLUDING BUT NOT LIMITED TO EXISTING CARRIERS AND HANGERS WITHIN THE AREA OF WORK TO THE EXISTING RISERS.
- EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE EXISTING PIPING AND EQUIPMENT.
- UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
- THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED AT THE SITE.
- NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES ALL DEBRIS RESULTING FROM PLUMBING WORK. UNNECESSARY NOISE SHALL BE AVOIDED AT ALL TIMES AND NECESSARY NOISE SHALL BE REDUCED TO A MINIMUM.
- ANY AND ALL REQUIRED DEMOLITION WORK TO BE PERFORMED ABOVE EXISTING SUSPENDED CEILINGS AND FURRED OUT WALLS SHALL BE DONE AT THE TIME WHEN THE EXISTING CEILINGS AND FURRED OUT WALLS ARE REMOVED BY THE GENERAL CONTRACTOR.
- ALL EQUIPMENT AND INSTALLATIONS MUST BE EQUAL TO THE STANDARDS OF THE BASE BUILDING. ANY DEVIATION FROM BUILDING STANDARDS WILL BE PERMITTED ONLY IF INDICATED OR SPECIFIED ON THESE PLANS AND SPECIFICATIONS, AND APPROVED.

FIXTURE CONNECTION SCHEDULE						
(NOT ALL FIXTURES SHOWN ARE NECESSARILY USED ON THIS PROJECT)						
SYM	FIXTURE	S	W	IW	V	HW
P-1	WATER CLOSET (FLUSH VALVE)	4"			2"	1"
P-1A	WATER CLOSET - HANDICAP (FLUSH TANK)	4"			2"	1"
P-2	LAVATORY		11"		1"	1"
P-2A	LAVATORY - HANDICAP		11"		1"	1"
P-3	URINAL (FLUSH VALVE)	2"			1"	1"
P-3A	URINAL - HANDICAP (FLUSH VALVE)	2"			1"	1"
P-4	JANITOR'S MOP SINK		3"		2"	8"
P-5	DRINKING FOUNTAIN		11"		1"	1"
P-6	SINK		11"		1"	1"

PIPE, FITTING, AND JOINT MATERIAL SCHEDULE					
PIPING SYSTEM	PIPING LOCATION	PIPING SIZE	PIPING SPECIFICATION	FITTING SPECIFICATION	JOINT SPECIFICATION
SANITARY/WASTE/ VENT/STORM	BELOW GROUND	ALL	SOLID CORE SCHEDULE 40 PVC	SCHEDULE 40 DWV FITTING	SOLVENT CEMENT WELDED.
	ABOVE GROUND	ALL	SOLID CORE SCHEDULE 40 PVC	SCHEDULE 40 DWV FITTING	SOLVENT CEMENT WELDED.
INDIRECT WASTE	ABOVE GROUND	ALL	TYPE DWV COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER
COLD WATER/HOT WATER/ HOT WATER CIRCULATION	DISTRIBUTION	ALL	TYPE L HARD DRAWN COPPER TUBING	WROUGHT COPPER WITH SOLDER ENDS	95.5 TIN / 4.0 COPPER / 0.5 SILVER SOLDER

PLUMBING FIXTURE CONNECTION SCHEDULE					
MARKS	DESCRIPTION	WASTE	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	4"	1"	--	FLOOR MOUNTED FLUSH TANK (1.6 GPM)
P-1A	WATER CLOSET (HANDICAP)	4"	1"	--	FLOOR MOUNTED FLUSH TANK (16 GPM)
P-2	LAVATORY	1½"	½"	--	COUNTER TOP
P-2A	LAVATORY (HANDICAP)	1½"	½"	--	MOUNTED WALL HUNG
P-3	URINAL	2"	¾"	--	WALL MOUNTED FLUSH VALVE
P-4	SERVICE SINK	2"	½"	1½"	HUNG SINK AMERICAN STANDARD OR APPROVED EQUAL
P-5	ELECT. WATER COOLER (HD)	1½"	½"	--	BI-LEVEL WALL MOUNTED

MAXIMUM FLOW RATE PER FIXTURE	
(NOT ALL FIXTURES SHOWN ARE NECESSARILY USED ON THIS PROJECT)	
FIXTURE	MAXIMUM FLOW RATE
WATER CLOSET (ALL TYPES)	1.28 GALLONS PER FLUSH
LAVATORY (PUBLIC)	0.5 GPM AT 60 PSI
URINAL	0.5 GALLONS PER FLUSH
MAXIMUM FLOW RATES PER LOCAL MIAMI-DADE AMENDMENT 8-31 TO THE FLORIDA BUILDING CODE.	
EXCEPTIONS: SERVICE SINKS, DRINKING FOUNTAINS	

MINIMUM FLOW PER FIXTURE AT PEAK DEMAND		
(NOT ALL FIXTURES SHOWN ARE NECESSARILY USED ON THIS PROJECT)		
FIXTURE	FLOW RATE	FLOW PRESSURE
WATER CLOSET (FLUSH VALVE)	25 GPM	35 PSI
WATER CLOSET (FLUSH TANK)	1.6 GPM	20 PSI
LAVATORY (PUBLIC)	0.4 GPM	8 PSI
URINAL	12 GPM	25 PSI
SERVICE SINK	3 GPM	8 PSI
DRINKING FOUNTAIN	0.75 GPM	8 PSI

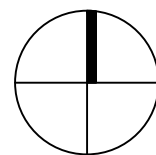
OPENING / SLEEVE SCHEDULE		
INSULATED DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RECIRCULATION PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
1" & 5"	3"	4"
1"	4"	4½"
1½"	4"	5"
1½"	4"	5"
2" & 2½"	5"	6"
3"	6"	6½"
4"	8"	7½"
5"	8"	8½"
6"	10"	9½"
UNINSULATED SANITARY, WASTE, VENT, STORM, AND GAS PIPING		
PIPE DIAMETER	WALL / FLOOR SLEEVE DIAMETER	BEAM OPENING DIAMETER
1½"	3"	3"
2"	4"	3½"
2½"	4"	4"
3"	5"	4½"
4"	6"	5½"
5"	8"	6½"
6"	8"	7½"
8"	10"	9½"
10"	12"	11½"
18"	15"	13½"
	18"	16½"

ELECTRIC WATER HEATER SCHEDULE									
MARKS	MANUFACTURER	MODEL	TANK	CAPACITY	SET TEMP.	DIMENSIONS	UEF	ELECTRICAL KW VOLT PH	REMARKS
EWH-1	LOCHINVAR	JR-J-020-K-S	YES	20 GAL	110° F	24.75"H x 18"ø	0.95	4.5 208 1	--



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Jonathan Frank Quintero Lic. # 85345



1 BUILDING DEPARTMENT COMMENTS 2023.02.10
Revision YYYXMMDD

Issued 2023.02.15

PERMIT SET

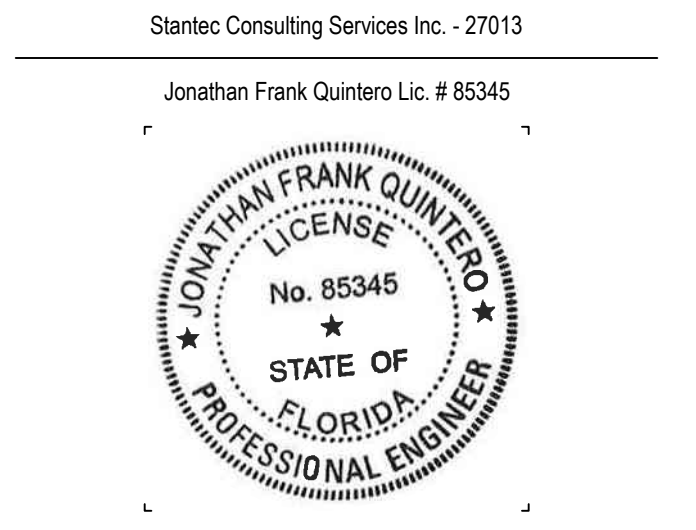
CITY OF DORAL
MORGAN LEVY PARK
RESTROOM RENOVATIONS

5300 NW 102nd AVENUE
Doral, FL 33178

Title
PLUMBING SYMBOLS,
ABBREVIATIONS, NOTES,
SPECIFICATIONS, AND
SCHEDULES

Project No. 227100129 Scale As indicated
Revision Drawing No.

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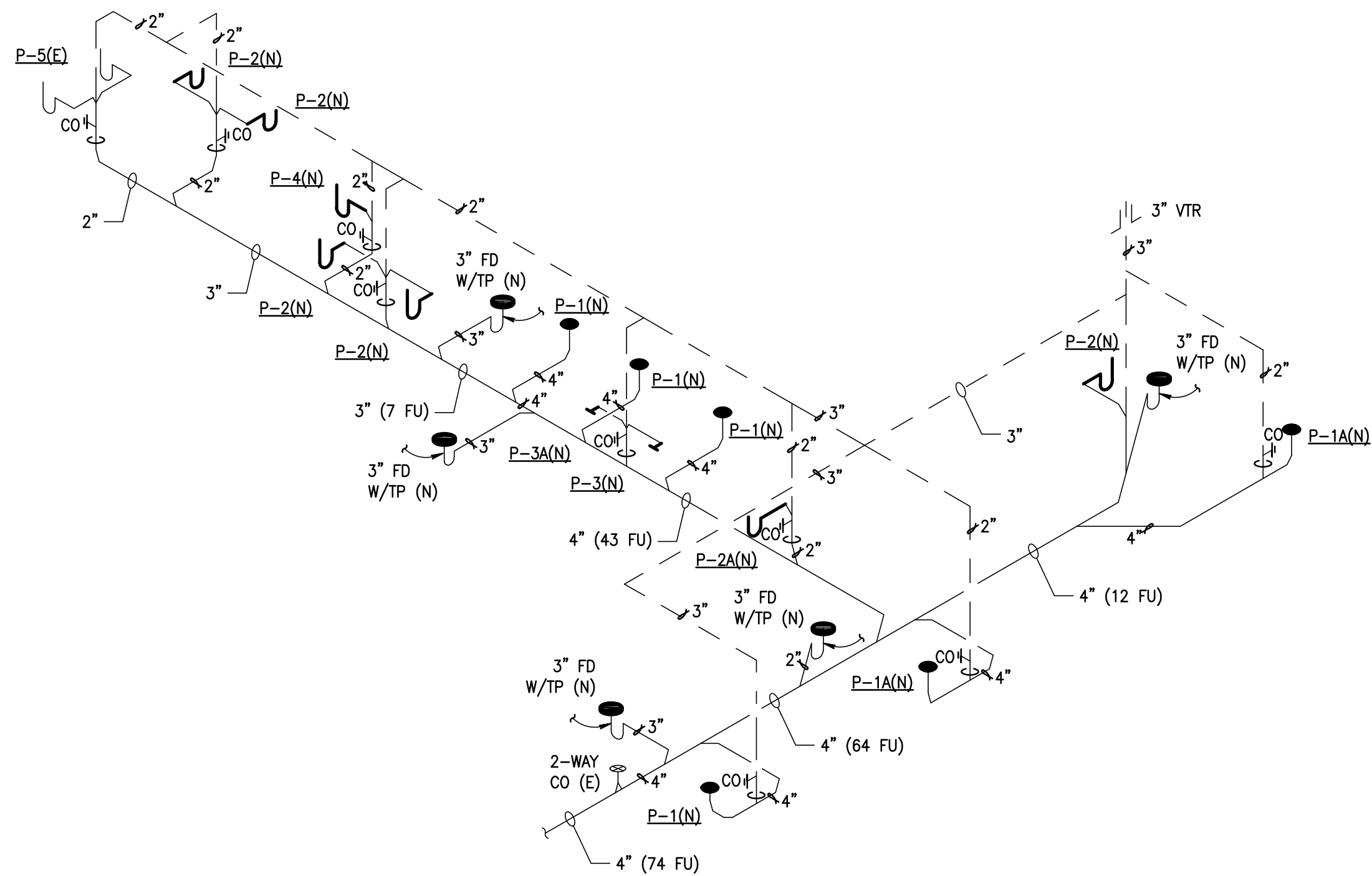
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Title
ENLARGED PLUMBING PLANS

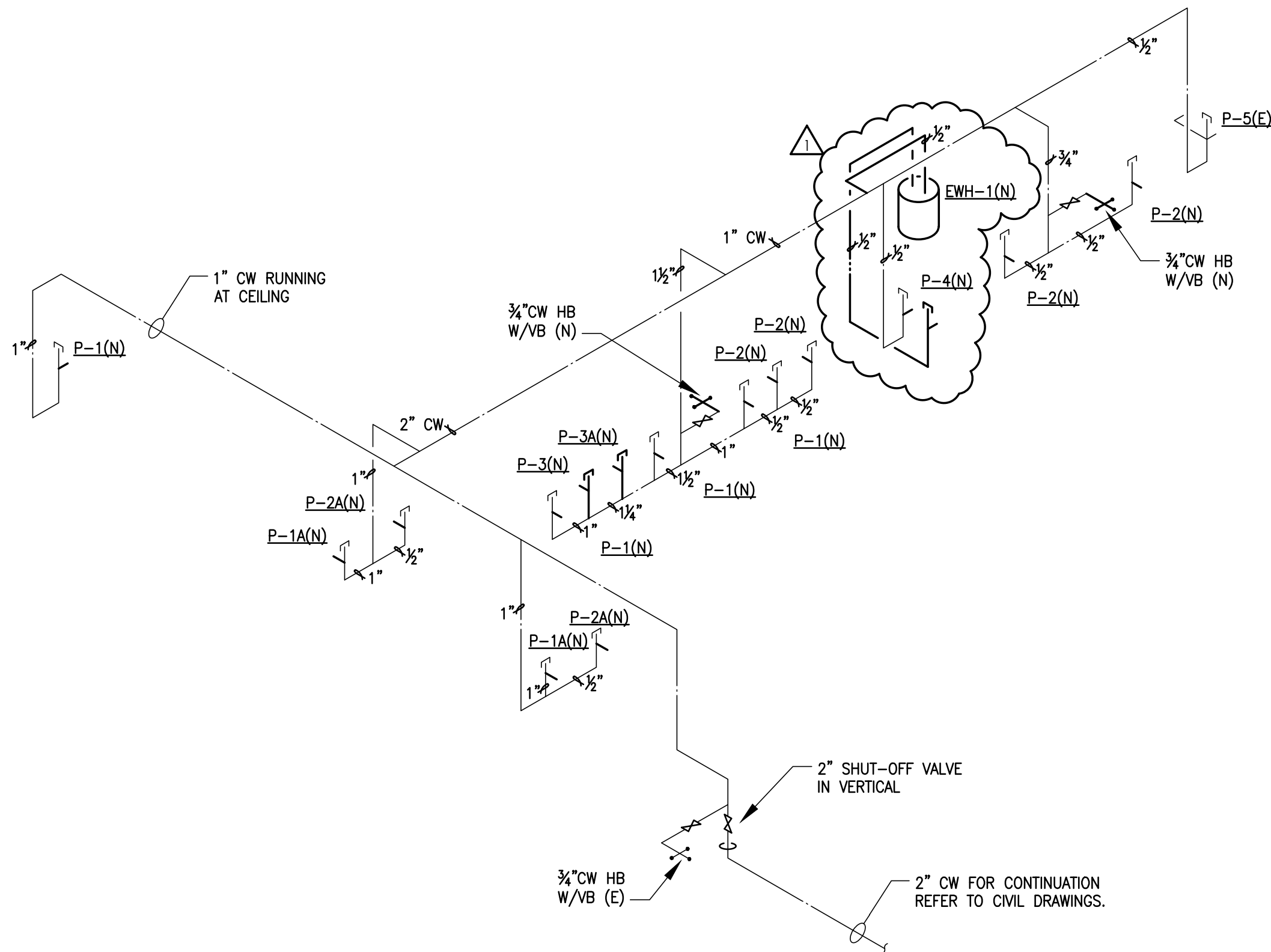
P-101



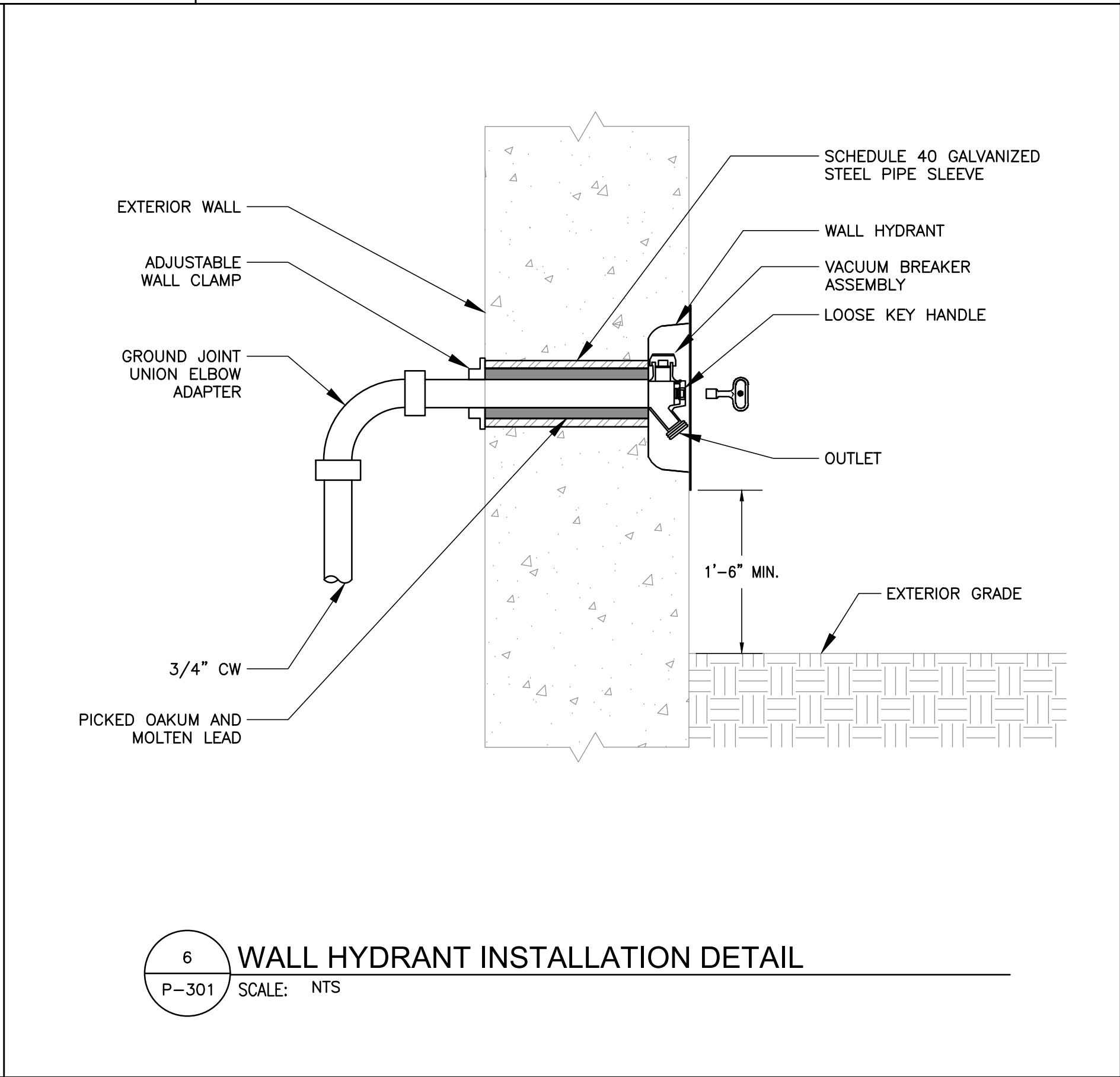
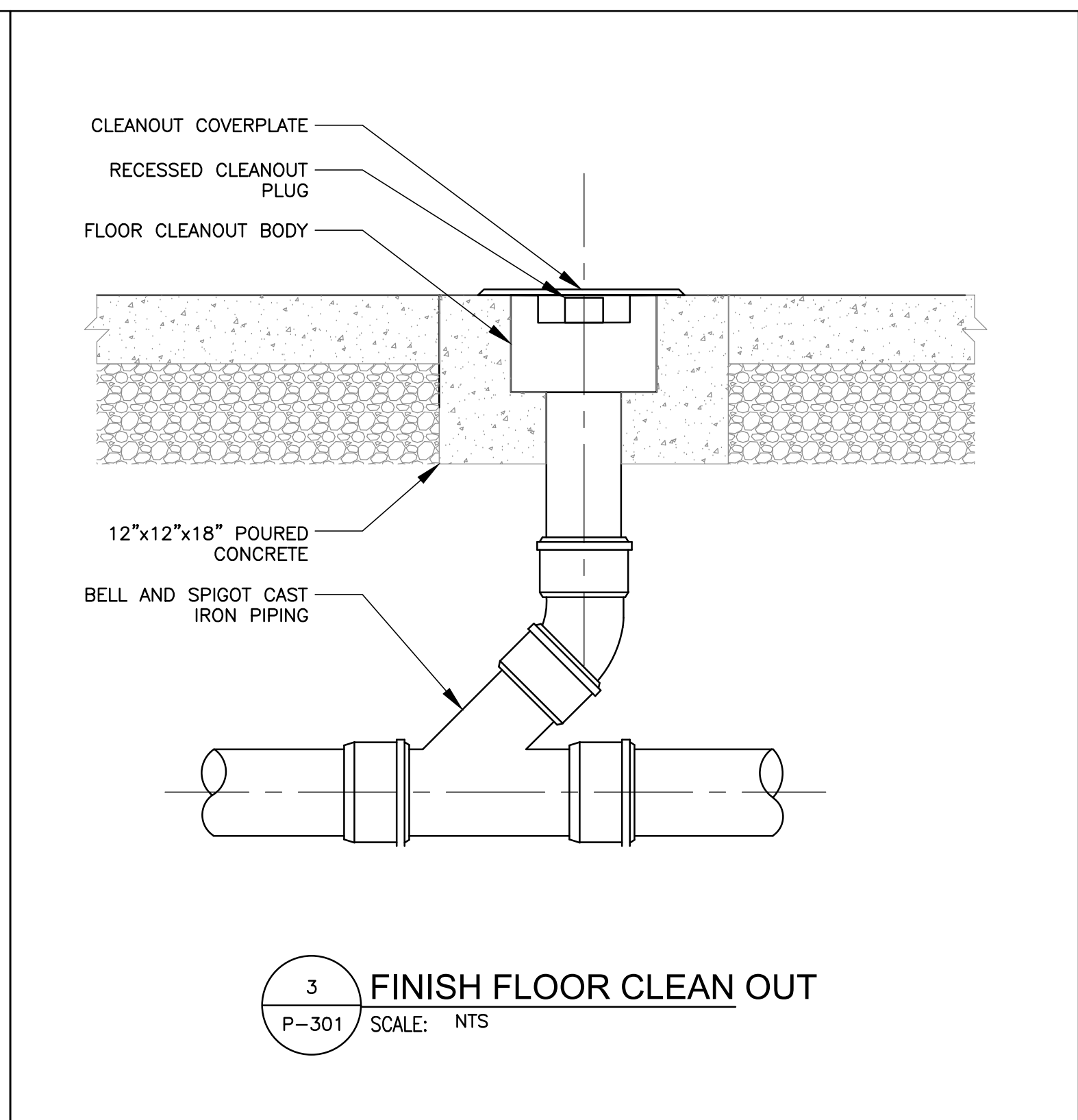
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SANITARY PIPING - ISOMETRIC



COLD WATER PIPING - ISOMETRIC



Issued 2023.02.15

P-301

ELECTRICAL NOTES

1. ALL CONDUCTORS SHALL BE AS REQUIRED BY U.L. AND CODES. MINIMUM WIRE SIZE SHALL BE #14 AWG. EXCLUDING CONTROL WIRING.
 2. ALL CONDUIT RISERS SHALL BE AS REQUIRED BY U.L. AND CODES.
 3. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE WITH NOT LESS THAN 200 LB TENSILE STRENGTH.
 4. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2020 FBC, NATIONAL ELECTRICAL CODE 2017, AND THE APPLICABLE EDITIONS OF ALL LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION.
 5. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED.
 6. ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, SWITCHES SHALL BE HORSE POWER RATED AND SIZED FOR 1/2 HORSEPOWER MAX. HEAVY DUTY TYPE.
 7. ALL ELECTRICAL EQUIPMENT SHALL BE RAIN-TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
 8. WIRE WAYS SHALL BE SIZED AS REQUIRED PER NEC, UNLESS OTHERWISE NOTED.
 9. COORDINATE ALL ELECTRICAL SITE WORK WITH GENERAL CONTRACTOR.
 10. FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF THREE 90 DEGREE BENDS. PULL BOXES SHALL BE SUITABLE AND APPROVED. FOR THE INTENDED USE. WARNING TAPE WHICH SAYS, "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRICAL CONDUITS, WHERE CONDUITS PASS UNDERNEATH PAVED AREAS, THEY SHALL BE RGS. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY SHALL BE SCHEDULE 40 PVC. ALL CONDUIT RISERS SHALL BE RGS.
 11. FOR TELEPHONE SYSTEM:
 - A. PROVIDE GROUNDING FOR ALL TELEPHONE OUTLETS AND EQUIPMENT PER REQUIREMENTS OF TELEPHONE COMPANY.
 - B. COORDINATE INSTALLATION OF ALL TELEPHONE OUTLETS, RACEWAYS, ENCLOSURES, AND BACKBOARDS WITH TELEPHONE COMPANY.
 - C. TELEPHONE CONDUITS SHALL NOT BE INSTALLED IN THE SAME TRENCH WITH POWER AND LIGHTING CONDUITS.
 - D. MARK TERMINATIONS OF TELEPHONE CONDUITS AS DIRECTED BY TELEPHONE COMPANY.
 - E. VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY, PRIOR TO SUBMITTING BID.
 12. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC), TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TE HANDLES PERMITTED.
 13. ALL ELECTRICAL EQUIPMENT, WIRING, LIGHTING FIXTURES, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITERS LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
 14. THAT CONDUITS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT:
 - A. POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED ELBOWS AND RISERS ARE RGS.
 - B. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR PROSIVE CONDITIONS; EMT CANNOT BE USED FOR RISING CONDUCTORS AS LONG AS THEY ARE INSIDE THE ELECTRICAL ROOM.
 - C. LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED.
 - D. FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS.
 - E. CONDUITS IN HAZARDOUS AREAS PER NEC SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
 15. PROVIDE LAMPS WITH FIXTURES, VERIFY LAMP TYPE WITH MANUFACTURER.
 16. COORDINATE ELECTRIC SERVICE WITH POWER UTILITY COMPANY.
 17. ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
 18. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS, AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS PRIOR TO INSTALLATION.
 19. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCE ORDERING OF LONG LEAD ITEMS, AS NOT TO INTERFERE WITH THE PRODUCTION OF THE PROJECTS RESULTING IN ANY DOWN OR LAG TIME.
 20. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
 21. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED ELECTRICAL CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
 22. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITIONS ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
 23. THE ELECTRICAL CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
 24. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATION TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
 25. WHERE CORE DRILLING OF FLOOR WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT. AFTER UTILITIES HAVE BEEN INSTALLED, LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
 26. ELECTRICAL CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO CONSTRUCTION.
 27. ALL FUSES SHALL BE CURRENT LIMITING, PER U.L. RATED 600V.
 - A. NON-TIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS.
 - B. TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS.
 28. OUTLET BOXES SHALL BE PRESSED STEEL, IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS.
 29. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, AS INDICATED OR REQUIRED, WITH OVERLOAD RELAYS OR FUSES IN EACH HOT LEG.
 30. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR AIR CONDITIONING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
 31. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
 32. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
 33. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
 34. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND INTENDED USE, OF THE FOLLOWING:
 - A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - B. ILLUMINATING ENGINEERS SOCIETY (IES)
 - C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
 - D. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATES, (NEMA)
- NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY U.L.
35. ALL BALLASTS SHALL HAVE MINIMUM POWER FACTOR OF 0.90. ALL BALLASTS FOR MERCURY VAPOR, METAL HALIDE AND HIGH-PRESSURE SODIUM FIXTURES SHALL BE CONSTANT WATTAGE TYPE WITH +5% LAMP WATTS FOR +/-10% NOMINAL LINE VOLTAGE VARIATION.
 36. ELECTRICAL CONTRACTOR SHALL SUBMIT (6 COPIES) EQUIPMENT LAYOUT OF ALL ELECTRICAL SPACES, ROOMS, ETC., TO ENGINEER FOR APPROVAL, PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. LAYOUT SHALL CONSIST OF PLAN VIEWS (SCALED AT 1/2"=1'-0") AND ELEVATIONS (DIMENSIONED) FOR EACH SUCH SPACE, ROOM, ETC.
 37. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH UL APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
 38. PROPER PLASTER RINGS SHALL BE USED WITH OUTLET BOXES. PLASTER RING SHALL BE A MAXIMUM OF 1/8" FROM THE FINISHED SURFACE OF THE DRYWALL AFTER DRYWALL IS INSTALLED. PROPER COORDINATION BETWEEN ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR FOR PLASTER RING INSTALLATION WILL BE REQUIRED. NO "SOOP" RINGS WILL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED. ANY AND ALL IMPROPERLY INSTALLED PLASTER RINGS OR OUTLET BOXES SHALL BE REMOVED AND A NEW RING OR OUTLET INSTALLED AT CONTRACTOR'S EXPENSE. NO GANGLABLE BOXES WILL BE ACCEPTED.
 39. ALL OPENINGS FOR LIGHT FIXTURES IN CEILINGS SHALL BE PROTECTED IN A MANNER (PER ALL GOVERNING CODES) THAT WILL PROVIDE THE SAME RATING AS THE CEILING. (THIS APPLIES TO ALL FIRE RATED CEILINGS).
 40. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
 41. ELECTRICAL CONTRACTOR SHALL SUBMIT (6 COPIES) EQUIPMENT CUTS FOR ALL SWITCH GEAR AND LIGHTING FIXTURES AS NOTED IN LIGHTING FIXTURE AND EQUIPMENT SCHEDULES.
 42. USE 3/4" FIRE RESISTANT PLYWOOD BACKBOARDS FOR TELEPHONE TERMINAL BOARDS AND FOR SURFACE MOUNTING GROUPED ELECTRICAL EQUIPMENT, PAINTED ON BOTH SIDES AND EDGES WITH TWO COATS OF FLAT BLACK ASPHALT PAINT.
 43. PROVIDE A FUSE HOLDER AND FUSE IN THE PRIMARY SIDE OF EACH UNDERGROUND CONDUCTOR FOR ALL BALLASTS (BUSSMAN HEB AND FNO OR EQUAL), AT THE HAND HOLE OF EACH EXTERIOR POLE MOUNTED LIGHTING FIXTURE OR J BOX FOR WALL OR GROUND MOUNTED FIXTURE.
 44. PROVIDE WIND LOAD RATED LIGHT POLES WITH 175 MPH MINIMUM WIND SPEED (ASCE 7), EXPOSURE WITH IMPORTANCE FACTOR OF 1.0, AND PROVIDE PHOTOMETRICS WITH ALL FIXTURE SUBMITTALS.
 45. CONTRACTOR TO VERIFY VOLTAGES OF ALL LIGHT FIXTURES PRIOR TO BIDDING RELATIVE TO THEIR SPECIFIC APPLICATION ON FLOOR PLANS. CONTRACTOR TO COORDINATE FIXTURES WITH ARCHITECTURAL DRAWINGS AND VERIFY APPROPRIATE CLEARANCES AND APPLICATION WITH ALL ARCHITECTURAL FINISHES PRIOR TO BIDDING.
 46. A SEPARATELY DEDICATED AND SEPARATELY GROUNDED CIRCUIT WITH AN ISOLATED GROUNDED RECEPTACLE SHALL BE PROVIDED FOR ALL COMPUTER EQUIPMENT.
 47. CONTRACTOR TO VERIFY AVAILABLE SERVICE VOLTAGE AND PHASES WITH F.P.B. PRIOR TO BID.
 48. METER CANS, HUBS, & LUGS FOR SAME ARE TO BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO VERIFY SPECIFIC TYPE OF METER CAN TO BE USED WITH F.P.B. PRIOR TO BID.
 49. PROVIDE A 4" STEEL REINFORCED CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR MOUNTED SWITCHGEAR.
 50. CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY OF EACH PANEL SCHEDULE, INSIDE ACH PANELBOARD. HAND WRITTEN DIRECTORY IS NOT ACCEPTABLE.

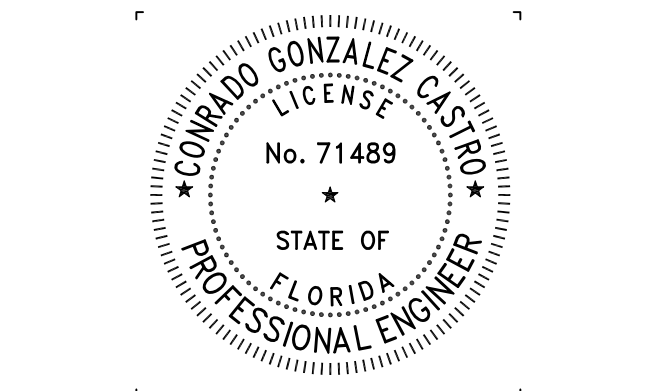
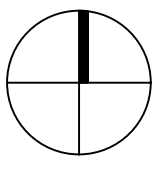
51. SMOKE DETECTORS SHALL BE NO CLOSER THAN 36" FROM SUPPLY AIR DIFFUSERS OR RETURN OPENING.
52. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED IN AN AREA OF EXCLUSION DETERMINED BY A 10 FT. (3.0m) RADIAL DISTANCE ALONG A HORIZONTAL FLOW PATH FROM A STATIONARY OR FIXED COOKING APPLIANCE, UNLESS LISTED FOR INSTALLATION IN CLOSE PROXIMITY TO COOKING APPLIANCES. SMOKE ALARMS AND SMOKE DETECTOR INSTALLED BETWEEN 10 FT. (3.0m) AND 20 FT. (6.1m) ALONG A HORIZONTAL FLOW PATH FROM A STATIONARY OR FIXED COOKING APPLIANCE SHALL BE EQUIPPED WITH AN ALARM SILENCING MEANS OR USE PHOTOELECTRIC DETECTION.
53. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN.(910mm) HORIZONTAL PATH FROM A DOOR TO A BATHROOM CONTAINING A SHOWER OR TUB.
54. SMOKE ALARMS AND SMOKE DETECTORS SHALL NOT BE INSTALLED WITHIN A 36 IN.(910mm) HORIZONTAL PATH FROM THE TIP OF THE BLADE OF A CEILING-SUSPENDED (PADDE) FAN, AND TO AC RETURNS.
55. ALL TRIM & TRIM PLATES IN DWELLING UNITS & PUBLIC AREAS TO BE WHITE COLOR DECORA TYPE OR APPROVED EQUAL.
56. 160' OR 40' CABLE IS PERMITTED WHERE ALLOWED BY CODE & NOT IN EXPOSED AREAS.
57. ALL SMOKE DETECTORS WITHIN EACH DWELLING UNIT SHALL BE INTERCONNECTED SO THAT ALL SMOKE DETECTORS WITHIN EACH DWELLING UNIT GO IN TO ALARM WHEN ONE SMOKE DETECTOR SENSES SMOKE. EACH SMOKE DETECTOR SHALL BE TIED TO AN UNSWITCHED LIGHTING CIRCUIT THAT IS CONNECTED TO AN AFCI CB.
58. ALL CIRCUITS INDICATED ON PANEL SCHEDULES AS 1 POLE CIRCUIT BREAKERS SHALL BE PROVIDED WITH A HOT AND A NEUTRAL CONDUCTOR. CIRCUITS INDICATED WITH A 2 POLE CIRCUIT BREAKER SHALL BE PROVIDED WITH 2 HOT CONDUCTORS AND A NEUTRAL CONDUCTOR. CIRCUITS THAT ARE INDICATED WITH A 3 POLE CIRCUIT BREAKER SHALL BE PROVIDED WITH 3 HOT CONDUCTORS AND 1 NEUTRAL CONDUCTOR. IF COMMON NEUTRALS ARE USED THE NEXT LARGER CONDUCTOR SIZE SHALL BE USED FOR THE NEUTRAL CONDUCTOR (APPLICABLE FOR MC CABLE).
59. ALL SUPPLY FANS AND AIR HANDLERS THAT ARE SHOWN ON THE MECHANICAL DRAWINGS, THAT ARE RATED 2000 CFM AND LARGER SHALL BE FURNISHED WITH A DUCT SMOKE DETECTOR THAT SHALL BE WIRED TO THE FIRE ALARM PANEL.
60. ALL FIRE SMOKE DAMPERS OR MOTORIZED DAMPERS SHOWN ON THE MECHANICAL DRAWINGS SHALL BE CONNECTED BOTH TO THE FIRE ALARM PANEL AND TO A 120V - 20W EMERGENCY CIRCUIT IN THE NEAREST EMERGENCY PANEL.
61. ALL FLOW AND TAMPER SWITCHES SHOWN ON THE FIRE SPRINKLER DRAWINGS SHALL BE CONNECTED TO THE FIRE ALARM PANEL.
62. MOTOR STARTERS FOR POOL & FOUNTAINS TO BE INSTALLED & FURNISHED BY ELECTRICAL CONTRACTOR.
63. PROVIDE ARC-FAULT INTERRUPTER CIRCUIT BREAKER FOR ALL FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENs, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS IN DWELLING UNITS.
64. THE CONTRACTOR SHALL PROVIDE AN INFRARED (THERMOGRAPH) SCAN TEST OF ALL COPPER CONDUCTORS AND BUS DUCT ONCE ALL SYSTEMS ARE ON LINE AND HOT. THE RESULTS OF THE TESTS SHALL BE FORWARDED TO THE ENGINEER OF RECORD PRIOR TO CERTIFICATE OF OCCUPANCY.
65. ELECTRICAL CONTRACTOR SHALL PROVIDE WRITTEN TEST RESULTS OF THE MEG-OHM READINGS OF ALL BUS-DUCT TO THE ENGINEER OF RECORD PRIOR TO ENERGIZING THE BUS-DUCT. THESE TEST RESULTS MUST BE WRITTEN ON THE BUS-DUCT MANUFACTURER'S LETTER HEAD & SIGNED & SEALED BY THE MANUFACTURER'S ENGINEER.
66. ALL DISCONNECT SWITCHES INDICATED AS W.P. ARE NEMA 4X TYPE. ALL THE OTHER DISCONNECT SWITCHES LOCATED INSIDE THE BUILDING ARE NEMA 1 TYPE (TYP) FOR DRY LOCATION AND NEMA 3R FOR DAMP LOCATION.

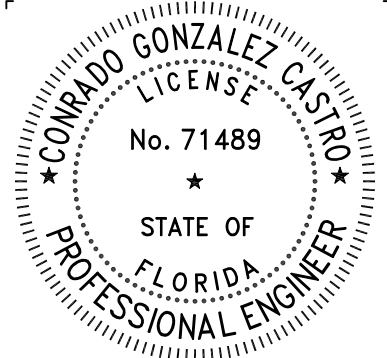
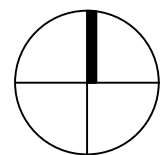
COLOR CODING:

- 120/208V**
- "A" - BLACK
 - "B" - RED
 - "C" - BLUE
 - "N" - WHITE
 - "G" - GREEN

67. FURNISH AND INSTALL U.L. LISTED EXPANSION TYPE CONDUIT FITTING AT ALL EXPANSION JOINTS.
68. PROVIDE TAMPER RESISTANT RECEPTACLES IN DWELLING UNIT AND AS PER NEC 406.11
69. OUTLETS BOXES SHALL NOT BE INSTALLED BACK-TO BACK ON FIRE RATED WALL AS PER NEC 300.21 AND NFPA 101 SECTION 8.3.5.6.3
70. PROVIDE PROTECTION FOR EMERGENCY POWERED EQUIPMENT AND DEVICES SUCH AS GARAGE EXHAUST FAN MOTOR STARTER AND DISCONNECTS WHICH ARE LOCATED IN AREA ACCESSIBLE TO NON-AUTHORIZED PERSONS AND WHERE POSSIBLY SUBJECT TO VANDALISM AS REQUIRED BY NEC 700.9(C), 700.12 AND 700.25. TYPICAL FOR GARAGE.
71. FBC 2020 ENERGY SECTION 4.2.2 MANUAL CONSTRUCTION SECTION 4.2.2.1 LIGHT REDUCTION CONTROLS; C405.2.2 ADDITIONAL LIGHTING CONTROLS; C405.2.2.1 AUTOMATIC TIME SWITCH CONTROL DEVICES; C405.2.2.2 OCCUPANCY SENSORS; C405.2.2.3 DAYLIGHT ZONE CONTROL; C405.2.2.3.3 MULTILEVEL LIGHTING CONTROLS; C405.2.3 SPECIFIC APPLICATION CONTROLS; C405.2.4 EXTERIOR LIGHTING CONTROLS. SECTION C405 SYSTEM COMMISSIONING; C408.1 GENERAL; NC408.3.1 FUNCTIONAL TESTING. FUNCTIONAL TESTING SHALL BE PERFORM BY THE LIGHTING CONTROL SYSTEM VENDOR (e.g., LUTRON, CRESTRON, LEVITON, ETC.).
81. CONTRACTOR SHALL PROVIDE LABEL ON ALL SERVICE EQUIPMENT TO SHOW THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED IN COMPLIANCE WITH NEC 110.24.
82. PRIOR TO ROUGH-IN CONTRACTOR SHALL VERIFY AND REPORT TO THE ARCHITECT AND ENGINEER ANY CONFLICT RELATED TO NEC 210.52 (210.60, 210.62, 210.63, 210.70) (OUTLET LOCATIONS).
83. CONTRACTOR TO PROVIDE LABEL ON ALL SWITCHBOARDS AND PANEL BOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES. (NEC 408.4(B)).
84. CONTRACTOR SHALL PROVIDE AN INTELLIGENT INTERFACE DEVICE MODEL HTR-1 SERIES MANUFACTURED BY SIEMENS TO ALLOW FSD SHOWN AT EACH UNIT OR DUCT PENETRATION WILL CLOSE IN THE EVENT OF SMOKE COMING INSIDE UNITS. SMOKE DETECTORS INSIDE UNITS WILL TRIGGER THE ACTIVATION OF THE INTERFACE DEVICE AND WILL USED AS SYSTEM DETECTORS. FACP AND ANNUNCIATOR PANEL WILL PROVIDE AN ALARM NOTIFICATION ONLY.) COORDINATE WITH MECHANICAL CONTRACTOR TO ASCERTAIN THAT SYSTEM IS FULLY OPERATIONAL. TYPICAL FOR ALL UNITS UNDER THE SCOPE OF WORK OF THIS PROJECT.
85. CONTRACTOR SHALL PROVIDE SIGNAGE FOR EACH SERVICE AS PER NEC 230.23(E).
86. ALL GROUNDS MUST BE TIED TOGETHER TO FORM A COMMON GROUND SYSTEM AS PER NEC 250.58.
87. A CIRCUIT BREAKER 1000 AMPS OR HIGHER SHALL HAVE DOCUMENTATION AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, OPERATE, OR INSPECT THE INSTALLATION AS TO THE LOCATION OF THE CIRCUIT BREAKER AND THE METHOD TO REDUCE THE CLEARING TIME SHALL MEET NEC 240.87. TO REDUCE CLEARING TIME, STANDARD DAS (DYNAMIC ARC FLASH SENTRY) TECHNOLOGY SHALL BE USED.
88. AS PER NEC 210.63, A 125 VOLT, 20 AMP GFCI WEATHERPROOF COVERED, PEDESTAL-MOUNTED RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICES OF HEATING, AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT. IT SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FEET OF THE EQUIPMENT.

POWER		LIGHTING		ABBREVIATIONS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	DUPLEX RECEPTACLE		FLUORESCENT STRIP FIXTURE	A	ARC FAULT CIRCUIT INTERRUPTER (AFCI)
	TWIST LOCK RECEPTACLE		FIXTURE DESIGNATION	AFF	ABOVE FINISHED FLOOR
	SURGE PROTECTION TYPE (TVSS) DUPLEX RECEPTACLE		FLUORESCENT FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH
	PEDESTAL MOUNTED RECEPTACLE		LOWER CASE LETTER INDICATES CONTACT, CIRCUIT SWITCH, L&G	AWG	AMERICAN WIRE GAUGE
	FLOOR OUTLET BOX AND DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE (LEGAND 880 UON)		CIRCUIT NUMBER	CONDUIT	
	CEILING MOUNTED OUTLET		2x4 LIGHTING FIXTURE	CM	CEILING MOUNTED
	DUPLEX RECEPTACLE WITH USB PORT		DIAGONAL SHADING INDICATES UNSWITCHED EMERGENCY POWER SOURCE	CB	CIRCUIT BREAKER
	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE AND ONE COMBINATION W/Voice/Data OUTLET		1x4 WALL MOUNTED FIXTURE WITH WALL OUTLET BOX	CR	CARD READER
	POWER POLE		1x4 LIGHTING FIXTURE	EM	EMERGENCY
	DUPLEX RECEPTACLE WITH EACH HALF ON SEPARATE CIRCUIT (BREAKER SHALL BE TWO POLE WITH COMMON TRIP)		HD, FLUORESCENT, OR INCANDESCENT FIXTURE	ECB	EMPTY CONDUIT
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER OR HIGH MOUNTED COORDINATE W/ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT		FLUORESCENT, OR INCANDESCENT WALL WASHER	ESC	ENCLOSED CIRCUIT BREAKER
	DUPLEX SAFETY RECEPTACLE MOUNT COORDINATES WITH SPANNER HEAD SCREWS		ACCENT FLOOD LIGHTING - AIMING AS INDICATED	C	CENTERLINE
	DUPLEX RECEPTACLE WITH TOP HALF SWITCHED		UP LIGHT FIXTURE	EW	ELECTRIC WATER COOLER
	SIMPLEX RECEPTACLE (EWC) DENOTES ELECTRIC WATER COOLER. COORDINATE WITH EWC INSTALLER FOR MOUNTING HEIGHT		DIRECTION ARROWS AS SHOWN (SHADED QUADRANT INDICATES FACES) OF FIXTURE	FA	FIRE ALARM
	GFI RECEPTACLE. WP DENOTES WEATHERPROOF COVER		WALL MOUNTED EXIT LIGHT FIXTURE	GRD/GND	GROUND
	GFI RECEPTACLE MOUNTED ABOVE COUNTER		EXTERIOR LIGHT FIXTURE WITH ARMS AS SHOWN OR DRAWINGS	HC	HUNG CEILING
	TWO DUPLEX RECEPTACLES WITH COMMON COVER		TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF LIGHT FIXTURES)	MCR	MECHANICAL EQUIPMENT ROOM
	ISOLATED GROUND DUPLEX RECEPTACLE		BATTERY PACK WITH TWIN HEADS	NA	NON-AUTOMATIC
	208 OR 240V, SPECIAL PURPOSE RECEPTACLE. RATING AS NOTED OR REQUIRED		OCCUPANCY SENSOR	NTS	NOT TO SCALE
	LIGHTING CONTROL TIME CLOCK		LIGHTING RELAY	ON CENTER	
	GROUND BAR		PHOTOCELL, MOUNTED ON ROOF FACING NORTH	P	POLES
	JUNCTION BOX W/WEATHER PROOF (EPI) EXPLOSION PROOF		SINGLE POLE SWITCH (SUBSCRIPT INDICATES ITEM CONTROLLED)	OPH	PHASE
	JUNCTION BOX- WALL MOUNTED-FURNITURE SYSTEM FEED		MOTION SENSOR SWITCH	G	GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
	CONDUIT SEAL-OFF FITTINGS		THREE-WAY SWITCH	SWBD	SWITCHBOARD
	SURGE SUPPRESSOR		FOUR-WAY SWITCH	SWGR	SWITCHGEAR
	C3 SERVICE ENTRANCE DEVICE B3 DISTRIBUTION BOARD DEVICE A3 PANELBOARD DEVICE		SINGLE POLE SWITCH WITH PILOT LIGHT	UNF	UNDERGROUND
	SHUNT-TRIP BUTTON- FLUSH MOUNTED UNLESS OTHERWISE NOTED NEMA 3R FOR EXTERIOR LOCATIONS		SINGLE POLE SWITCH WITH WEATHERPROOF COVER	XP	EXPLOSION PROOF
	ELECTRIC DUCT HEATER		SINGLE POLE SWITCH WITH SECURITY LOCKING KEY	WG	WIRE GUARD PROTECTION
	MOTOR CONNECTION. NUMBER DENOTES HORSEPOWER		FAN SWITCH	UN	UNLESS OTHERWISE NOTED
	TRANSFORMER		MANUAL MOTOR STARTER WITH OVERLOAD HEATERS	W	WIRE
	AUTOMATIC TRANSFER SWITCH		MANUAL MOTOR STARTER WITH OVERLOAD HEATERS AND PILOT LIGHT	WP	WEATHERPROOF
	SAFETY DISCONNECT SWITCH, SIZE 4 & 4 OF POLES 3 POLE UNLESS OTHERWISE NOTED		DIMMER SWITCH (1500 WATTS UNLESS OTHERWISE INDICATED) (FOR LED LIGHT MAX LOAD 600 WATTS)	WR	WEATHER RESISTANT
	COMBINATION MAGNETIC MOTOR STARTER, SIZE 4 & 4 OF POLES 3 POLE UNLESS OTHERWISE NOTED		THREE-WAY KEY SWITCH	CC	DEVICES SEE CIRCUIT CHART
	J BOX WITH MOTOR RATED SWITCH		FOUR-WAY KEY SWITCH	EP	ELECTRICAL PANEL IN UNIT
	POWER CONTROL, J BOX FOR DRAPERY SYSTEM		LOW VOLTAGE SWITCH	MB	MEDIA BOX IN UNITS
	EXHAUST FAN			T	OCCUPANCY SENSOR
	GROUND BAR				
	PLUG-IN STRIP WITH RECEPTACLES, 18" O.C. UNLESS OTHERWISE INDICATED				
	UNDER GROUND CONCRETE ENCASED DUCTBANK				
	EXHAUST FAN				
BASIC MATERIALS		FIRE ALARM (APT. UNITS)			
	BRANCH CIRCUIT CONDUIT	SYMBOL	DESCRIPTION		
	GROUND OR GROUND ROD AS NOTED		SINGLE STATION SMOKE DETECTOR		
	CONDUIT TURNING UP		CARBON MONOXIDE DETECTOR		
	CONDUIT TURNING DOWN		COMBO SMOKE/CARBON MONOXIDE DETECTOR		
	CONDUIT STUB	TELEPHONE/DATA/CATV RACEWAY SYSTEM			
	CONDUIT CONTINUED		COMPUTER/TELEPHONE OUTLET/CATV WITH (2) 8-CONDUCTOR RJ-45 JACKS IN A SINGLE-GANG BOX, 18" A.F.F. UNLESS OTHERWISE NOTED		
	FLEXIBLE CONDUIT		ABOVE THE COUNTER (W = WALL MOUNTED) (5P A.F.F.) PP = PUBLIC PAY (48" A.F.F.)		
			TELEPHONE DATA OR CATV TERMINAL BOARD "TBB" OR "TVBB"		
			TELEVISION SIGNAL WALL OUTLET		
SECURITY RACEWAY SYSTEM					
	BOX FOR CARD READER		MAGNETIC LOCK		
	DOOR POSITION SWITCH		BOX FOR EGRESS MOTION SENSOR		
	DOORBELL PUSHBUTTON STATION		DOORBELL CHIME (SELF CONTAINED)		
	SURVEILLANCE CAMERA				
NOT ALL SYMBOLS SHOWN ARE APPLICABLE. SOME SYMBOLS ARE SHOWN TO FACILITATE REVISIONS AND CHANGES IN THE SCOPE OF WORK.					



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1	BUILDING DEPARTMENT COMMENTS	2023.03.10
Revision		YYYY.MM.DD

Issued	2023.02.15
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PERMIT SET

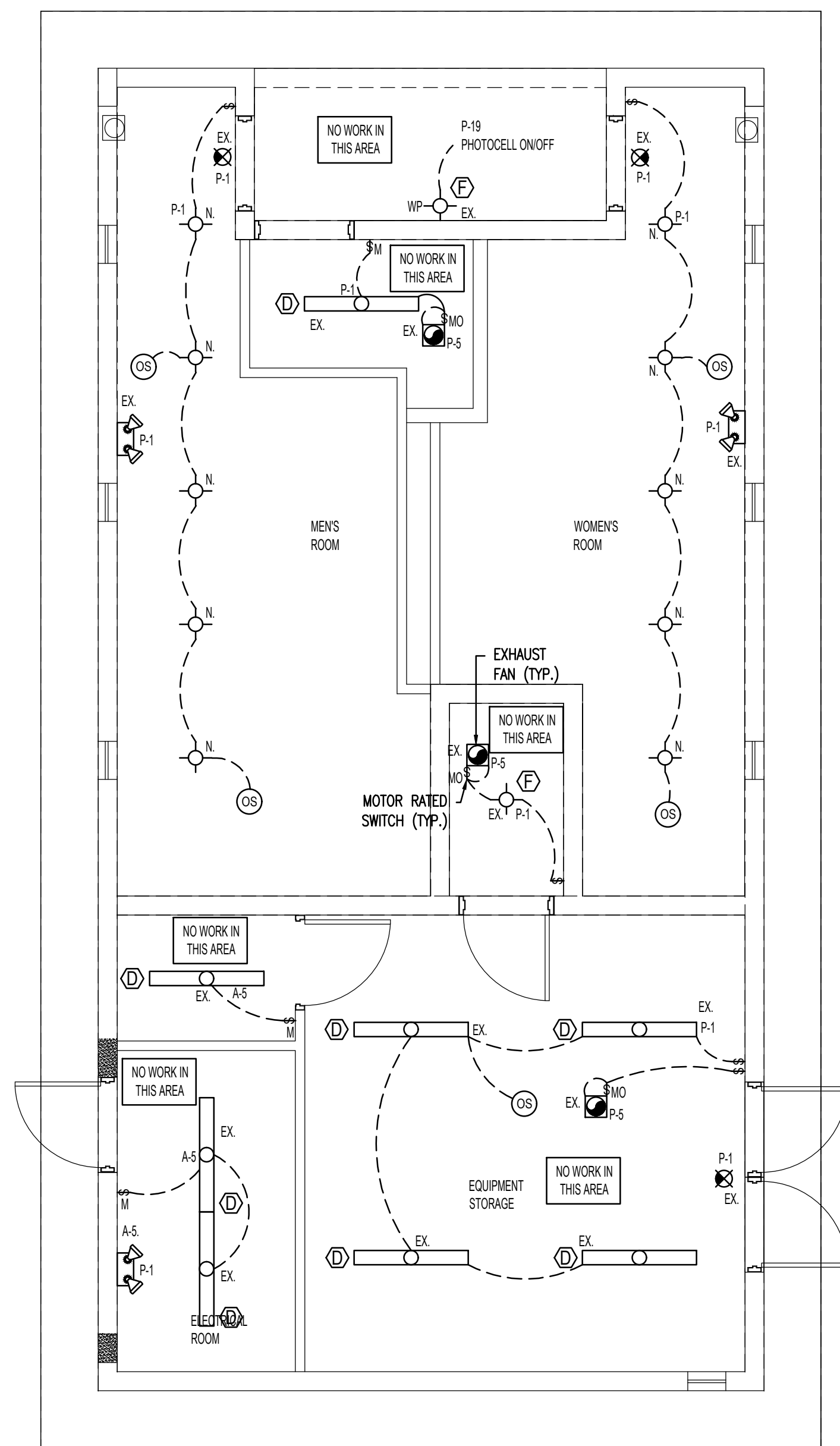
CITY OF DORAL
MORGAN LEVY PARK
RESTROOM RENOVATIONS






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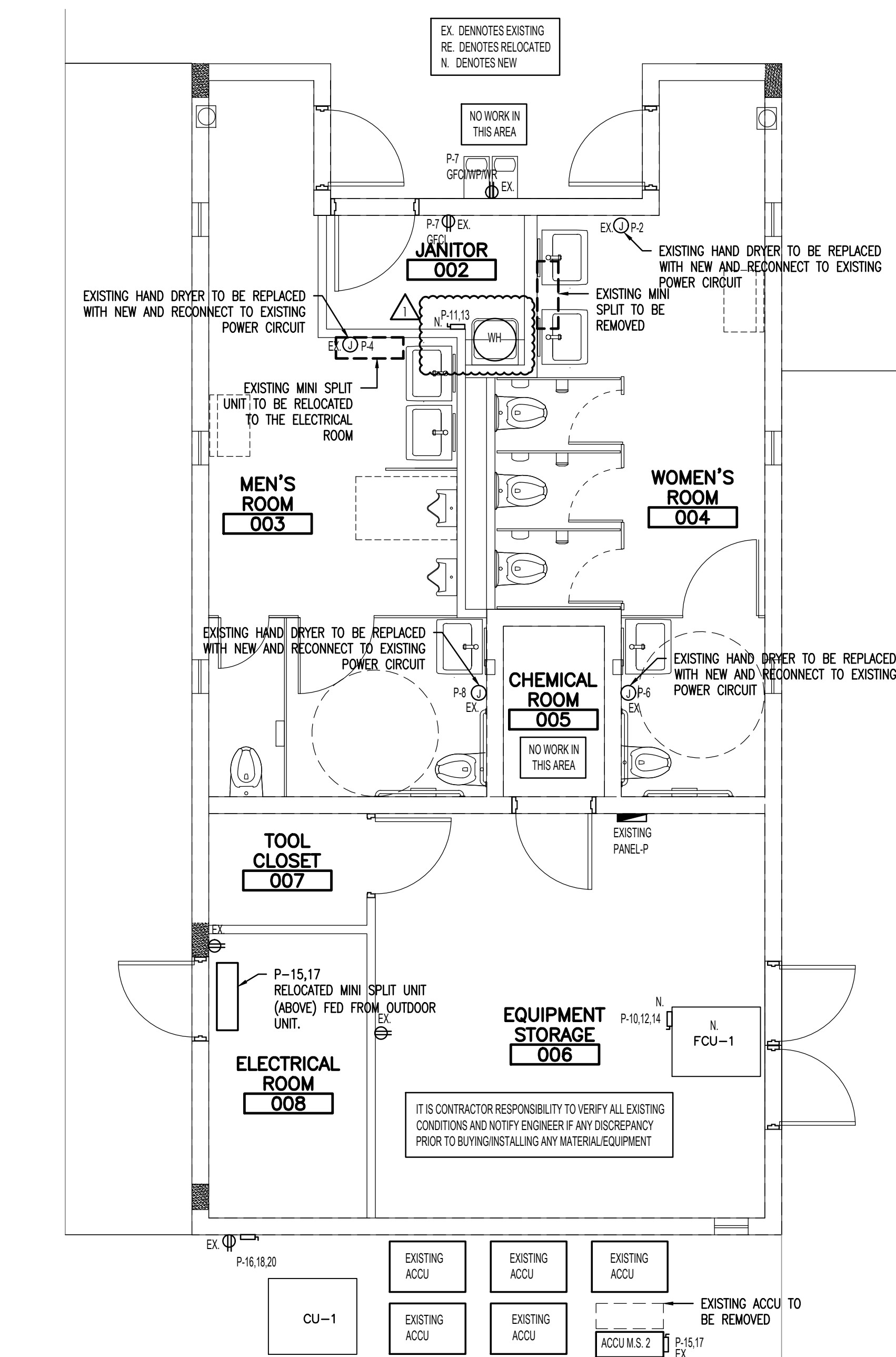
Title
ELECTRICAL PLANS

Project No. 227100129	Scale As indicated
Revision	Drawing No.

E-101



FIXTURES		
ITEM	DESCRIPTION	QTY
	EXIT LIGHT	4
 	FLUORESCENT	6
 	FLUORESCENT	5



1 REFLECTED CEILING PLAN
E-101 1/4"=1'-0"

2

E-101

POWER PLAN

1/4"=1'-0"

1

2

3

4

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A

B

C

D

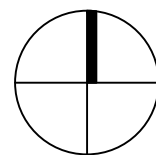
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EXISTING PANEL "P"

MOUNTING: SURFACE

SHORT CIRCUIT RATING: 22K AIC

POLES: 42

FED FROM PANEL: SEL1D1

VOLT: 208/120V,3Ø,4W

MAIN BUS AMPS: 100

MAIN BREAKER AMPS: 100

MANUFACTURER/TYPE: EXISTING

CKT	LOAD SERVED	POLE	TRIP	WIRE	COND		LOAD	LOAD	COND	WIRE	TRIP	POLE	LOAD SERVED	CKT	
1	LIGHTS	1	20	12	1/2"	L	820	2,300	O	3/4"	10	30	1	HAND DRYER	2
3	LIGHTS EXTERIOR	1	20	12	1/2"	L	821	2,301	O	3/4"	10	30	1	HAND DRYER	4
5	EXHAUST FAN	1	20	12	1/2"	L	920	2,302	O	3/4"	10	30	1	HAND DRYER	6
7	RECEPTACLES	1	20	12	1/2"	R	823	2,303	O	3/4"	10	30	1	HAND DRYER	8
9	SPARE	1	20					5,864	O	3/4"	10	25	3		10
11	WATER HEATER	2	30	10	3/4"	O	4,500		3/4"	10	25	3	FCU-1	12	
13			30	10	3/4"				3/4"	10	25	3		14	
15	MINI SPLIT UNIT 2 (EXISTING)	2	15	12	1/2"	O	1,124	9,720	O	1"	8	45	3	CU-2	16
17			15	12	1/2"				1"	8	45	3	18		
19	LIGHTS EXTERIOR	1	15	12	1/2"	L	30			1"	8	45	3		20

CONNECTED LOAD33,828TOTAL DEMAND =34,476VA

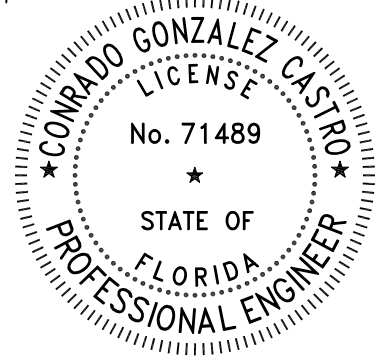
CONNECTED AMPS94DEMAND AMPS =96AMPS

DEMAND CALCULATION

LIGHTING	L	2591	1.25	3,239	Note: (1) MAX 3% VD ON BRANCH CIRCUITS AS PER FBC (2) CORRIDOR LIGHTING CIRCUITS TO BE CONTROLLED THRU THRU LIGHTING CONTROL PANEL & CENTRAL B.A.S.
RECEPTACLE	R	823	5411.5	823	
MOTOR	M	0	1.25	0	
KITCHEN EQUIPMENT	K	0	0.65	0	
OTHERS	O	30414	1	30,414	

Stantec Consulting Services Inc. - 27013

Conrado Gonzalez Castro Lic. # 71489



1	BUILDING DEPARTMENT COMMENTS	2023.03.10
Revision		YYYY-MM-DD

Issued	2023.02.15
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PERMIT SET

CITY OF DORAL
MORGAN LEVY PARK
RESTROOM RENOVATIONS
5300 NW 102nd AVENUE
Doral, FL 33178
Title
SCHEDULES

Project No.	Scale
227100129	As indicated
Revision	Drawing No.

E-201