50% DESIGN DEVELOPMENT

GROWING FUTURE INNOVATORS, CREATORS, AND MAKERS FOR THE 21ST CENTURY

STEM NOLA

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

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STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127



WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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DRAWING ISSUE

DATE	ISSUED FOR
9/8/2025	50% DESIGN DEVELOPMENT

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
COVER SHEET

SHEET NO. G000

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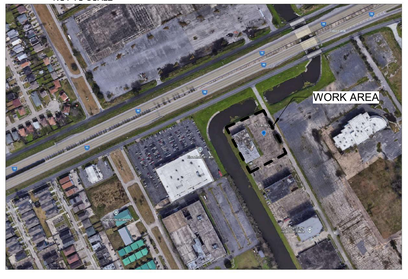
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GENERAL NOTES

1. DIMENSIONS ARE SHOWN TO FACE OF FINISHES, U.N.O.
2. DO NOT SCALE DRAWINGS. CONSULT WITH ARCHITECT FOR CLARIFICATIONS.
3. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR BUILDING THIS PROJECT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. UNLESS OTHERWISE NOTIFIED IN WRITING BY THE OWNER OR ARCHITECT.
4. ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT VERSION OF ALL APPLICABLE CODES AND THE AMERICAN DISABILITIES ACT. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DEFICIENCIES PRIOR TO THE COMPLETION OF WORK.
5. CONTRACTOR SHALL PROVIDE PUBLIC PROTECTIONS NECESSARY PER ALL APPLICABLE REGULATIONS.
6. CONTRACTOR WILL COORDINATE WITH OWNER PARKING ON OR OFF SITE. ONLY EQUIPMENT FOR CONSTRUCTION MAY BE PARKED ON SITE.
7. THE LOCATION OF THE EXISTING UTILITIES AND STRUCTURES SHOWN HEREON ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE EXISTENCE AND ACTUAL LOCATION OF SUCH, WHETHER SHOWN HEREON OR NOT, PRIOR TO ANY EXCAVATION. ANY DAMAGES SHALL BE REPAIRED AT THE EXPENSE OF THE GENERAL CONTRACTOR.
8. ALL EXTERIOR JOINTS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF WATER AND/OR AIR LEAKS SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
9. PENETRATIONS INTO, AND OPENINGS THROUGH AN EXIT ENCLOSURE (I.E. STAIRS) SHALL BE LIMITEDTO THE FOLLOWING:
   A) DOORS PERMITTED IN NFPA 101, 7.1.3.2.1 (9)
   B) ELECTRICAL CONDUIT SERVING THE EXIT ENCLOSURE.
   C) REQUIRED EXIT DOOR OPENINGS
   D) DUCTWORK AND EQUIPMENT NECESSARY FOR INDEPENDENT STAIR PRESSURIZATION.
   E) WATER OR STEAM PIPING NECESSARY FOR THE HEATING OR COOLING OF THE EXIT ENCLOSURE.
   F) SPRINKLER PIPING.
   G) STANDPIPES.
   H) EXISTING PENETRATIONS PROTECTED IN ACCORDANCE WITH NFPA 8.3.5.
   I) PENETRATIONS FOR FIRE ALARM CIRCUITS, WHERE THE CIRCUITS ARE INSTALLED IN METAL CONDUIT AND THE PENETRATIONS ARE PROTECTED IN ACCORDANCE WITH 8.3.5.
10. FIRE BARRIERS SHALL BE CONTINUOUS FROM OUTSIDE WALL TO OUTSIDE WALL, FROM FIRE BARRIER TO ANOTHER FIRE BARRIER, OR A COMBINATION THEREOF: INCLUDING CONTINUITY THROUGH ALL CONCEALED SPACES SUCH AS THOSE FOUND ABOVE A CEILING. INCLUDING INTERSTITIAL SPACES.
11. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICES EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED WITH THE SAME FIRE RATING AS THE ADJACENT WALL.
12. PROVIDE STENCILING ABOVE ACCESSIBLE CEILINGS, AND IN CONCEALED SPACES AT CORRIDOR PARTITIONS, SMOKE STOP PARTITIONS, HORIZONTAL EXIT PARTITIONS EXIT ENCLOSURES, AND FIRE RATED WALLS. PRIOR TO STENCILING OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION FOR THE EXACT WORDING OF MESSAGE.
13. THE SEQUENCE OF INSTALLTION OF ALL ELEMENTS WITHIN AN ASSEMBLY, TO ASSURE THE CONSTRUCTIBILITY, IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. QUERIES BY THE GENERAL CONTRACTOR REGARDING CONSTRUCTIBILITY OF ANY ASSEMBLY SHALL BE ADDRESSED TO THE ARCHITECT FOR REVIEW IN A TIMELY MANNER, IN ORDER FOR THE ARCHITECT TO REVIEW AND COORDINATE WITH OTHER DISCIPLINES, AND TO ENSURE THE CONSTRUCTION SCHEDULE IN NOT ADVERSELY IMPACTED.
14. CONTRACTOR SHALL PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.
15. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY DEFECTS AND/OR DAMAGED/DECAYING MATERIALS FOUND IN THE EXISTING STRUCTURE OR WORK PRIOR TO ENCLOSING NEW CONSTRUCTION.
16. THE EXISTING PLAN IS DOCUMENTED ON THE DRAWINGS IN ACCORDANCE WITH A LIMITED NUMBER OF AVAILABLE ORIGINAL CONSTRUCTION DRAWINGS AND FIELD INVESTIGATIONS. VARIANCE OF ACTUAL EXISTING CONDITIONS FROM THOSE ILLUSTRATED ON THESE DOCUMENTS MAY OCCUR. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
17. ALL EXISTING ITEMS TO REMAIN UNLESS OTHERWISE NOTED.
18. CONTRACTOR TO COORDINATE ALL SHUT DOWNS OR INTERRUPTIONS IN ANY SERVICE WITH THE OWNER PRIOR TO PROCEEDING WITH WORK.
19. ALL WOOD BLOCKING & NAILERS TO BE PRESSURE TREATED.

VICINITY MAP

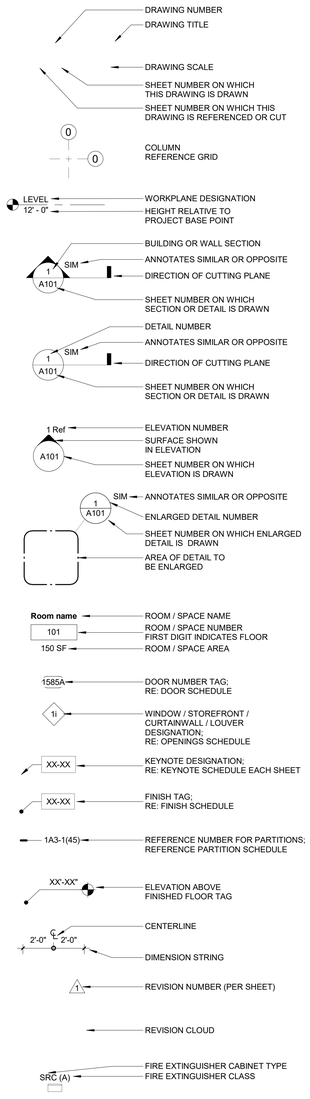
NOT TO SCALE



DEMO GENERAL NOTES

1. ITEMS SHOWN DASHED ON DEMO. PLANS INDICATE EXIST. PARTITIONS, DOORS, FRAMES, CASEWORK, PLUMBING FIXTURES, ETC. TO BE REMOVED IN THEIR ENTIRETIES U.N.O. TO BE SALVAGED.
2. ALL ITEMS TO BE REUSED OR TURNED OVER TO OWNER TO BE PROTECTED TO THE GREATEST EXTENT POSSIBLE.
3. THE G.C. SHALL COORDINATE WITH THE OWNER THE LABELING, TRANSFER, AND STORAGE OF ANY ITEMS INDICATED TO BE SALVAGED BY THE G.C.. EXIST. ITEMS INDICATED TO BE SALVAGED SHALL BE RELOCATED ON-SITE OR OTHERWISE STORED IN A WEATHERPROOF, CLIMATE-CONTROLLED STORAGE FACILITY.
4. THE G.C. SHALL SCHEDULE ALL SHUTDOWNS IN BUILDING SERVICES & RELOCATION OF ITEMS TO BE RE-USED WITH OWNER SO AS NOT TO INTERRUPT FACILITY OPERATIONS.
5. THE G.C. SHALL MAINTAIN SAFE PEDESTRIAN ACCESS TO EXIST. BUILDINGS THAT ARE TO REMAIN OPERATIONAL FOR THE DURATION OF THE CONSTRUCTION.
6. THE G.C. SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXIST. STRUCTURES OR ITEMS INDICATED TO REMAIN FROM DAMAGE. SHOULD DAMAGE OCCUR, THE STRUCTURES OR ITEMS SHALL BE REPAIRED OR REPLACED AT THE G.C.'S EXPENSE.
7. DEMO. ALL RELATED FRAMING, BRACING, AND ANCHORS USED TO SUPPORT ANY PARTITION, MILLWORK, SOFFITS, ETC. THAT HAS BEEN INDICATED TO REMOVED. GRIND AND REMOVE ANY EXPOSED REINFORCING TO 1/4" BELOW THE TOP OF SLAB.
8. DEMO. FLOOR FINISHES AND SURROUNDING WALL BASE ON FLOORS & SURFACES WHERE NEW FLOOR FINISHES & BASE ARE INDICATED, INCLUDING ADHESIVES & LOOSE OR DAMAGED FLOOR PATCH.
9. DEMO. CEILINGS, SOFFITS, & BULKHEADS AS INDICATED INCLUDING ALL RELATED FRAMING, BRACING, SUSPENSION SYSTEMS & ANCHORS. COORD. WITH WORK REQ. FOR MEP & AV DEMO.
10. ELECTRICAL OUTLETS & FLOOR BOXES NOTED FOR DEMO. MUST BE REMOVED BACK TO THE SUB-PANEL. REMOVE ALL HVAC DIFFUSERS, DUCTS, DAMPERS, ETC. BACK TO SUPPLY TRUNKS. ANY REMAINING CORE DRILLS, POKE-THROUGHS, OR OPENINGS MUST BE CLOSED & SEALED AS REQ. MAINTAIN ALL FIRE RATINGS & USE FIRE RATED ASSEMBLIES AS REQ. RE: MEP DRAWINGS.
11. ALL NEW OPENINGS IN LOAD-BEARING MASONRY OR STUD WALLS SHALL BE PROPERLY SHORED & REINFORCED WITH NEW LINTELS OR HEADERS; RE: STRUCT. FOR ADDITIONAL INFORMATION.
12. RE: MEP & STRUCT. FOR ADDITIONAL DEMO. SCOPE & CLARIFICATIONS.
13. PATCH HOLES & VOIDS IN EXIST. CONC. FLOORS OCCURING AS A RESULT OF DEMO. MATCH THICKNESS & FIRE RATING OF EXISTING CONC. RE: SPECS FOR CUTTING & PATCHING PROCEDURES.
14. DURING ANY REQ. DEMO, OF DESIGNATED AREAS, G.C. SHALL ADEQUATELY SECURE BUILDING & PROVIDE TEMP. PROTECTIONS FROM DUST, DEBRIS, & MOISTURE INTRUSION INTO OCCUPIED SPACES. RE: SPECS FOR SELECTIVE DEMO. REQUIREMENTS & PROCEDURES.
15. REPAIR AND/OR REPLACE INSULATION & FIRE-PROOFING AS REQ. WHERE DAMAGED, TORN, OR MISSING.
16. G.C. SHALL FIELD VERIFY ALL LOCATIONS OF EXISTING PIPES & UTILITIES PRIOR TO PERFORMING ANY WORK.

GRAPHIC SYMBOLS



ABBREVIATIONS

ABV	ABOVE
ACOUS	ACOUSTIC(AL)
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT
ADJUST	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE, ALTERATION
AMT	AMOUNT
ANCH	ANCHOR(AGE)
ANOD	ANODIZE(D)
ANNUNC	ANNUNCIATOR
ANT	ANTENNA
APPL	APPLIANCE
APPROX	APPROXIMATE
APPRVD	APPROVED
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASPH	ASPHALT
ASS	ASSEMBLY
ATTEN	ATTENUATION
AUTH	AUTHORIZE(D)
AUTO	AUTOMATIC
AVG	AVERAGE
B/	BOTTOM OF
BR	BRICK
BD	BOARD
BETW	BETWEEN
BEV	BEVEL
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BM	BEAM, BENCH MARK
BOL	BOLLARD
BOT	BOTTOM
BRDG	BRIDGE, BRIDGING
BRG	BEARING
BRKT	BRACKET
BRZ	BRONZE
BU	BUILT-UP
BUR	BUILT-UP ROOF
BW	BOTH WAYS
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CCTV	CLOSED CIRCUIT TV
CEM	CEMENT(ITIOUS)
CER	CERAMIC
CFL	COUNTERFLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CHAM	CHAMFER(ED)
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CIR	CIRCLE
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLKG	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CND	CONDITION
CNTR	COUNTER
CO	CLEAN OUT
COEF	COEFFICIENT
COILG	COILING
COL	COLUMN
COM	COMMON
COMB	COMBINATION
COMP	COMPRESSED
COMPT	COMPARTMENT
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COR	CORNER
CORR	CORRUGATE(D)
COV	COVER
CPR	COPPER
CPT	CARPET
CR	CARD READER
CRS	COLD ROLLED STEEL
CSG	CASING
CSTG	CASTING
CT	CERAMIC TILE
CTD	COATED
CTR	CENTER
CTSK	COUNTERSUNK
CU	CUBIC
CV	CHECK VALVE
CW	COLD WATER
CWR	CONDENSATE WASTE RETURN
CWS	CONDENSATE WASTE SUPPLY
CYC	CYCLE
CYL	CYLINDER
D	DEPTH
DB	DECIBEL
DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLISH(ED), DEMOLITION
DES	DESIGN(ED)
DPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DMT	DEMOUNTABLE
DN	DOWN
DPR	DAMPER
DR	DOOR
DRN	DRAIN
DS	DOWN SPOUT
DSP	DRY STANDPIPE
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
EA	EACH
EDF	ELEC. DRINKING FOUNTAIN
EJ	EXPANSION JOINT
EL	ELEVATION
ELAST	ELASTOMERIC
ELECT	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENAM	ENAMEL
ENGR	ENGINEER
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ETC	ET CETERA
EW	EACH WAY
EWC	ELEC. WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FAHRENHEIT
FA	FIRE ALARM, FRESH AIR
FAB	FABRICATE, FABRICATION
FAR	FLOOR AREA RATIO
FAST	FASTEN(ER)
FC	FOOT CANDLE
FCO	FLOOR CLEANOUT
FC	FACE OF CURB
FD	FLOOR DRAIN
FDC	FIRE DPT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CAB.
FHC	FINISH FACE
FF&E	FIXTURES, FURNITURE & EQUIPMENT
FGR	FIBER GLASS REINFORCED
FH	FIRE HYDRANT, FLAT HEAD
FHC	FIRE HOSE CABINET
FDN	FOUNDATION
FIN	FINISH(ED)
FIXT	FIXTURE
FLDG	FOLDING
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FINISHED OPENING
FOC	FACE OF CONCRETE, CURB
FOF	FACE OF FINISH
FOS	FACE OF SLAB, STUD
FP	FIREPROOF
FPM	FEET PER MINUTE
FR	FIRE RESISTANCE
FRM	FRAME
FRP	FIBERGLASS REINF. PANEL
FS	FLOOR SINK
FT	FOOT
FTG	FOOTING
FURN	FURNISH(ED), FURNITURE
FUT	FUTURE
FV	FIELD VERIFY
FWC	FABRIC WALL COVERING
FXD	FIXED
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GD	GUTTER DRAIN
GEN	GENERATOR
GENL	GENERAL
GF	GLASS FIBER
GI	GALVANIZED IRON
GKT	GASKET
GL	GLASS
GND	GROUND
GOVT	GOVERNMENT
GPH/M/S	GALLONS PER HOUR/MINUTE/SECOND
GR	GRADE
GRN	GRANITE
GYP	GYPSUM
GSB	GYPSUM SHEATHING BD.
GT	GREASE TRAP
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HC	HANDICAPPED, HOLLOW CORE
HD	HEAD, HEAVY DUTY
HDN	HARDEN(ED)
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HEX	HEXAGONAL
HGR	HANGER
HGT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HANDRAIL, HOUR(S)
HTG	HEATING
HTR	HEATER
HTW	HIGH TEMPERATURE WATER
HVY	HEAVY
HW	HOT WATER
HWH	HOT WATER HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HWY	HIGHWAY
HYD	HYDRAULIC
HYDRO	HYDROSTATIC
ID	INSIDE DIMENSION
IN	INCH
INCAND	INCANDESCENT
INCR	INCREASE
INFIL	INFILTRATION
INSUL	INSULATION
INT	INTERIOR, INTERNAL
INTERM	INTERMEDIATE
INTLK	INTERLOCK(ING)
INV	INVERT
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR'S CLOSET
JCT	JUNCTION
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
L	LONG, LENGTH
LAD	LADDER
LAM	LAMINATE(D)
LAT	LATERAL
LAV	LAVATORY
LB	POUND(S)
LBL	LABEL
LBR	LUMBER
LCD	LIQUID CRYSTAL DIODE
LD	LEADER DRAIN
LF	LINEAR FOOT/FEET
LH	LEFT HAND
LIB	LIBRARY
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LM	LIMESTONE
LT	LIGHT
LVT	LUXURY VINYL TILE
LVR	LOUVER
MACH	MACHINE
MAINT	MAINTAIN, MAINTENANCE
MAN	MANUAL
MANUF	MANUFACTURER
MAR	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MH	MANHOLE
MHO	MAGNETIC HOLD OPEN
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
MKR	MARKER
MLDG	MOLDING
MLWK	MILWORK
MO	MASONRY OPENING
MOV	MOVABLE
MTD	MOUNTED
MTL	METAL
MIN	MINIMUM
NAT	NATURAL
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP (H)	OPPOSITE (HAND)
OPR	OPERABLE
ORD	OVERFLOW ROOF DRAIN
ORN	ORNAMENTAL
OUT	OUTLET
OVFL	OVERFLOW
OZ	OUNCE
PAR	PARAPET, PARALLEL
PBD	PARTICLE BOARD
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL, PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PKG	PARKING
PKWY	PARKWAY
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
PLTF	PLATFORM
PNL	PANEL
PNT	PAINT(ED)
POL	POLISH(ED)
POLYST	POLYSTYRENE
PORT	PORTABLE
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATED
PRI	PRIMARY
PROJ	PROJECT
PROP	PROPERTY
PSF	POUNDS PER SQUARE FT
PSI	POUNDS PER SQUARE IN
PT	PAINT(ED)
PTC	POST-TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVG	PAVING
PVMT	PAVEMENT
PVT	PRIVATE
PWR	POWER
QT	QUARRY TILE
QTY	QUANTITY
QUAL	QUALITY
R	THERMAL RESISTANCE, RISER
RA	RETURN AIR
RAD	RADIUS
RB	RESILIENT BASE
RC	REINFORCED CONCRETE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDR	READER
RE	REFERENCE
REC	RECESSED
RECEP	RECEPTACLE
REF	REFRIGERATOR
REFL	REFLECT(ED)
REINF	REINFORCED
REM	REMOVE
REQ'D	REQUIRED
RES	RESISTANT
RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION
REVDR	REVOLVING DOOR
RF	RESILIENT FLOOR(ING)
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RVL	REVEAL
RT	RESILIENT TILE
RR	RAILROAD
SALV	SALVAGE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE(D)
SEAL	SEALANT
SECT	SECTION
SEL	SELECT
SF	SQUARE FOOT/FEET
SFGL	SAFETY GLASS
SGS	SILICONE GLAZING SEALANT
SH	SHUTTER
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SK	SINK
SLV	SLEEVE
SNT	SEALANT
SP	SOIL PIPE
SPEC	SPECIFICATION
SPK	SPEAKER
SPL	SPECIAL
SPLR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STG	STAGING
STL	STEEL
STOR	STORAGE
STRUC(T)	STRUCTURAL
STW	STORM WATER
SUPP	SUPPLEMENT(ARY)
SUSP	SUSPENDED
SW	SWITCH
SYMM	SYMMETRICAL
SYN	SYNTHETIC
T	TREAD(S)
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TC	TOP OF CURB
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPORARY
TERR	TERRAZZO
THK	THICK
THRU	THROUGH
TLT	TOILET
TOC	TOP OF CONCRETE
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TOS	TOP OF STEEL
TRZ	TERRAZZO
TRTD	TREATED
TV	TELEVISION
TW	TREATED WOOD
TYP	TYPICAL
U	HEAT TRANSFER COEFFICIENT
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VSF	VINYL SHEET FLOORING
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WF	WIDE FLANGE
WD	WOOD
WG	WALL GUARD
WH	WATER HEATER
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

SPECIALIZED STEM

DRAWING ISSUE

DATE	ISSUED FOR
07/21/2023	50% DESIGN DEVELOPMENT

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

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INFORMATION SHEET

SHEET NO.
G001

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CHAPTER 3: BUILDING BLOCKS

302-Floor and Ground Surfaces

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed exposed edge. Carpet edge trim shall comply with 303.

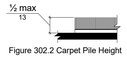


Figure 302.2 Carpet Pile Height

302.3 Openings. Openings in floor or ground surfaces shall not allow passage 302.3 Openings. Openings in floor or ground surfaces shall not allow passage 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

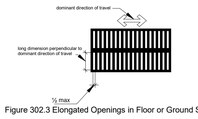


Figure 302.3 Elongated Openings in Floor or Ground Surfaces

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical.



Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.



Figure 303.3 Beveled Change in Level

304-Turning Space / 305 Clear Floor Space

304.3.1 Circular Space. The turning space shall be a space of 60 inches (1525 mm) diameter minimum. The space shall be permitted to include knee and toe clearance complying with 306.

304.3.2 T-Shaped Space. The turning space shall be a T-shaped space within a 60 inch (1525 mm) square minimum with arms and base 36 inches (915 mm) wide minimum. Each arm of the T shall be clear of obstructions 12 inches (305 mm) minimum in each direction and the base shall be clear of obstructions 24 inches (610 mm) minimum. The space shall be permitted to include knee and toe clearance complying with 306 only at the end of either the base or one arm.

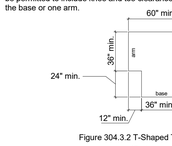


Figure 304.3.2 T-Shaped Turning Space

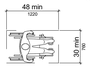


Figure 305.3 Clear Floor or Ground Space

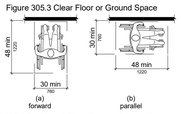


Figure 305.5 Position of Clear Floor or Ground Space

305.7.1 Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).

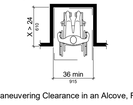


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

305.7.2 Parallel Approach. Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).



Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

306-Knee and Toe Clearance

306.2 Toe Clearance.

306.2.1 General. Space under an element between the finish floor or ground and 9 inches (230 mm) above the finish floor or ground shall be considered toe clearance and shall comply with 306.2.

306.2.2 Maximum Depth. Toe clearance shall extend 25 inches (635 mm) maximum under an element.

306.2.3 Minimum Required Depth. Where toe clearance is required at an element as part of a clear floor space, the toe clearance shall extend 17 inches (430 mm) minimum under the element.

306.2.4 Additional Clearance. Space extending greater than 6 inches (150 mm) beyond the available knee clearance at 9 inches (230 mm) above the finish floor or ground shall not be considered toe clearance.

306.2.5 Width. Toe clearance shall be 30 inches (760 mm) wide minimum.

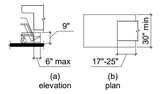


Figure 306.2 Toe Clearance

306.3 Knee Clearance.

306.3.1 General. Space under an element between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground shall be considered knee clearance and shall comply with 306.3.

306.3.2 Maximum Depth. Knee clearance shall extend 25 inches (635 mm) maximum under an element at 9 inches (230 mm) above the finish floor or ground.

306.3.3 Minimum Required Depth. Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

306.3.4 Clearance Reduction. Between 9 inches (230 mm) and 27 inches (685 mm) above the finish floor or ground, the knee clearance shall be permitted to reduce at a rate of 1 inch (25 mm) in depth for each 6 inches (150 mm) in height.

306.3.5 Width. Knee clearance shall be 30 inches (760 mm) wide minimum.

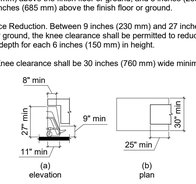


Figure 306.3 Knee Clearance

307-Protruding Objects

307.2 Protrusion Limits. Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.

EXCEPTION: Handrails shall be permitted to protrude 4 1/2 inches (115 mm) maximum.

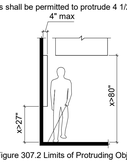


Figure 307.2 Limits of Protruding Objects

307.3 Post-Mounted Objects. Free-standing objects mounted on posts or pylons shall overhang circulation paths 12 inches (305 mm) maximum when located 27 inches (685 mm) minimum and 80 inches (2030 mm) maximum above the finish floor or ground. Where a sign or other obstruction is mounted between posts or pylons and the clear distance between the posts or pylons is greater than 12 inches (305 mm), the lowest edge of such sign or obstruction shall be 27 inches (685 mm) maximum or 80 inches (2030 mm) minimum above the finish floor or ground.

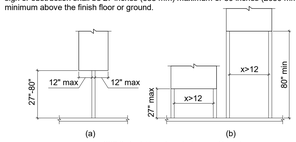


Figure 307.3 Post-Mounted Protruding Objects

307.4 Vertical Clearance. Vertical clearance shall be 80 inches (2030 mm) high minimum. Guardrails or other barriers shall be provided where the vertical clearance is less than 80 inches (2030 mm) high. The leading edge of such guardrail or barrier shall be located 27 inches (685 mm) maximum above the finish floor or ground.

EXCEPTION: Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

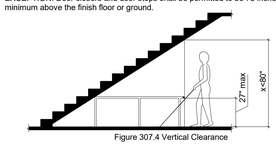


Figure 307.4 Vertical Clearance

308-Reach Ranges

Children's Reach Ranges

Foward or Side Reach	High (maximum)	Low (minimum)
Ages 3 and 4	36"	20"
Ages 5 through 8	40"	18"
Ages 9 through 12	44"	16"

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

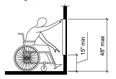


Figure 308.2.2 Obstructed High Forward Reach

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

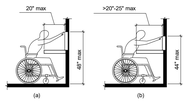


Figure 308.3.1 Unobstructed Side Reach

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

Figure 308.3.2 Obstructed High Side Reach

309-Operable Parts

309.2 Clear Floor Space. A clear floor or ground space complying with 305 shall be provided.

309.3 Height. Operable parts shall be placed within one or more of the reach ranges specified in 308.

309.4 Operation. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5 pounds (22.2 N) maximum.

CHAPTER 4: ACCESSIBLE ROUTES

402-Accessible Routes

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403-Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

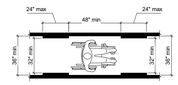


Figure 403.5.1 Clear Width of an Accessible Route

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

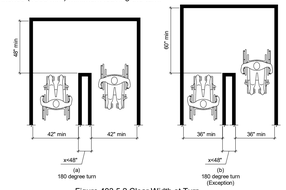


Figure 403.5.2 Clear Width at Turn

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum.

404-Doors, Doorways, and Gates

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

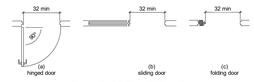


Figure 404.2.3 Clear Width of Doorways

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

Foward or Side Reach	High (maximum)	Low (minimum)	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (beyond latch side unless noted)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches[1]
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches[2]	22 inches[3]
From latch side	Pull	48 inches[4]	24 inches
From latch side	Push	42 inches[4]	24 inches

1. Add 12 inches if closer and latch are provided.
2. Add 6 inches if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches if closer is provided.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

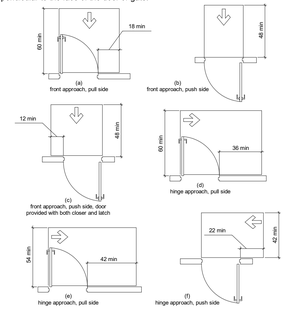


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

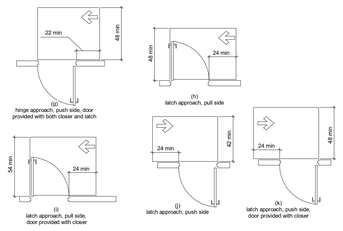


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

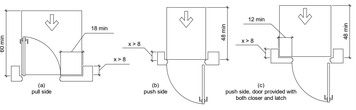


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

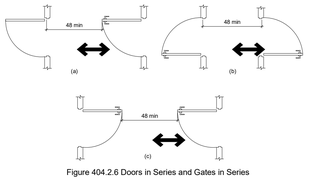


Figure 404.2.6 Doors in Series and Gates in Series

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:

1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.

2. Sliding or folding doors: 5 pounds (22.2 N) maximum.

These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

404.2.11 Vision Lights. Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

404.3 Automatic and Power-Assisted Doors and Gates. Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and power-assisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

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SPECIALIZED STEM MULTI-PURPOSE BUILDING

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WDG Project No: 2024002

SHEET NAME

ADA REFERENCE GUIDELINES

SHEET NO. G100

CHAPTER 4: ACCESSIBLE ROUTES (cont.)

405-Ramps

405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

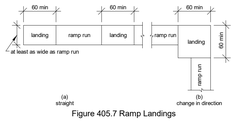


Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall have slope no steeper than 1:48. Changes in level are not permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

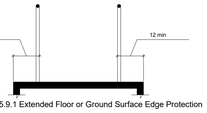


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

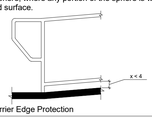


Figure 405.9.2 Curb or Barrier Edge Protection

406-Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

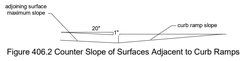


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

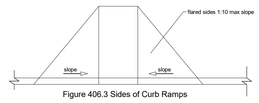


Figure 406.3 Sides of Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

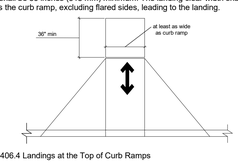


Figure 406.4 Landings at the Top of Curb Ramps

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

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other well-defined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

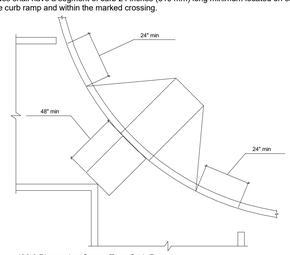


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

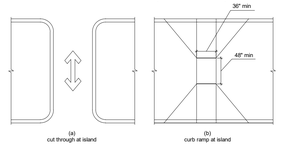


Figure 406.7 Islands in Crossings

407-Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.
EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be ¾ inch (19 mm) minimum in the smallest dimension.
EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space. A clear floor or ground space complying with 305 shall be provided at call controls.

407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.1.4.

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.
EXCEPTIONS: 1. Destination-oriented elevators shall not be required to comply with 407.2.1.5 provided that visible and audible signals complying with 407.2.2 indicating which elevator car to enter are provided.
2. Existing elevators shall not be required to comply with 407.2.1.5.

407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where in-car signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.
EXCEPTIONS: 1. Visible and audible signals shall not be required at each destination oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2-½ inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.
EXCEPTIONS: 1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2.

407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.
EXCEPTION: Existing manually operated hoistway swing doors shall be permitted provided that they comply with 404.2.3 and 404.2.9. Car door closing shall not be initiated until the hoistway door is closed.

407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with 407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.
EXCEPTION: Existing elevators with manually operated doors shall not be required to comply with 407.3.3.

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.
EXCEPTION: Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m2) minimum and also provide an inside clear depth 54 inches (1370 mm) minimum and a clear width 36 inches (915 mm) minimum shall be permitted.

Table 407.4.1 Elevator Car Dimensions

Door Location	Minimum Dimensions			
	Door Clear Width	Inside Car, Side to Side	Inside Car, Back Wall to Front Return	Inside Car, Back Wall to Inside Face of Door
Centered	42 inches	80 inches	51 inches	54 inches
Side (off-centered)	36 inches[1]	68 inches	51 inches	54 inches
Any	36 inches[1]	54 inches	80 inches	80 inches
Any	36 inches[1]	60 inches[2]	60 inches[2]	60 inches[2]

1. A tolerance of minus 5/8 inch is permitted.
2. Other car configurations that provide a turning space complying with 304 with the door closed shall be permitted.

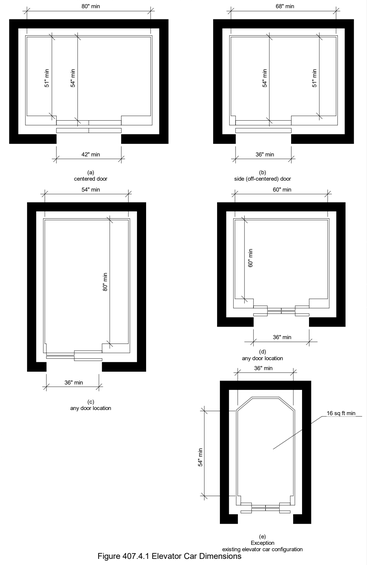


Figure 407.4.1 Elevator Car Dimensions

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1¼ inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of ½ inch (13 mm) under rated loading to zero loading conditions.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.
EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.6 is provided, existing car operating panels shall not be required to comply with 407.4.6.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.
EXCEPTIONS: 1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the finish floor where a parallel approach is provided.407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.
EXCEPTION: In existing elevators, buttons shall be permitted to be recessed.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.2 Location. Raised character and braille designations shall be placed immediately to the left of the control button to which the designations apply.
EXCEPTION: Where space on an existing car operating panel precludes tactile markings to the left of the controls, markings shall be placed as near to the control as possible.

407.4.7.2 Keypads. Keypads shall be identified by characters complying with 703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 703.3.1.

407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in elevator cars.

407.4.8.1 Visible Indicators. Visible indicators shall comply with 407.4.8.1.

407.4.8.1.1 Size. Characters shall be ½ inch (13 mm) high minimum.

407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

407.4.8.1.3 Floor Arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.
EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.

407.4.8.1.4 Destination Indicator. In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

410-Platform Lifts

410.1 General. Platform lifts shall comply with ASME A18.1 (1999 edition or 2003 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1). Platform lifts shall not be attendant-operated and shall provide unassisted entry and exit from the lift.

410.2 Floor Surfaces. Floor surfaces in platform lifts shall comply with 302 and 303.

410.3 Clear Floor Space. Clear floor space in platform lifts shall comply with 305.

410.4 Platform to Runway Clearance. The clearance between the platform sill and the edge of any runway landing shall be 1¼ inch (32 mm) maximum.

410.5 Operable Parts. Controls for platform lifts shall comply with 309.

410.6 Doors and Gates. Platform lifts shall have low-energy power-operated doors or gates complying with 404.3. Doors shall remain open for 20 seconds minimum. End doors and gates shall provide a clear width 32 inches (815 mm) minimum. Side doors and gates shall provide a clear width 42 inches (1065 mm) minimum.
EXCEPTION: Platform lifts serving two landings maximum and having doors or gates on opposite sides shall be permitted to have self-closing manual doors or gates.

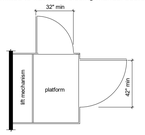


Figure 410.6 Platform Lift Doors and Gates

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

502-Parking Spaces

502.1 General. Car and van parking spaces shall comply with 502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the centerline of the markings.
EXCEPTION: Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

502.2 Vehicle Spaces. Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.
EXCEPTION: Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

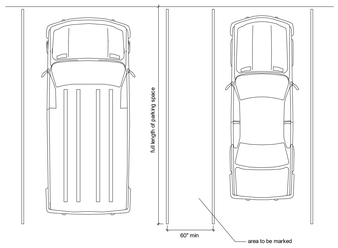


Figure 502.2 Vehicle Parking Spaces

502.3 Access Aisle. Access aisles serving parking spaces shall comply with 502.3. Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

502.3.1 Width. Access aisles serving car and van parking spaces shall be 60 inches (1525 mm) wide minimum.

502.3.2 Length. Access aisles shall extend the full length of the parking spaces they serve.

502.3.3 Marking. Access aisles shall be marked so as to discourage parking in them.

502.3.4 Location. Access aisles shall not overlap the vehicular way. Access aisles shall be permitted to be placed on either side of the parking space except for angled van parking spaces which shall have access aisles located on the passenger side of the parking spaces.

502.4 Floor or Ground Surfaces. Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

502.5 Vertical Clearance. Parking spaces for vans and access aisles and vehicular routes serving them shall provide a vertical clearance of 98 inches (2490 mm) minimum.

502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

502.7 Relationship to Accessible Routes. Parking spaces and access aisles shall be designed so that cars and vans, when parked, cannot obstruct the required clear width of adjacent accessible routes.

504-Stairways

504.1 General. Stairs shall comply with 504.

504.2 Treads and Risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum.

504.3 Open Risers. Open risers are not permitted.

504.4 Tread Surface. Stair treads shall comply with 302. Changes in level are not permitted.
EXCEPTION: Treads shall be permitted to have a slope not steeper than 1:48.

504.5 Nosings. The radius of curvature at the leading edge of the tread shall be ½ inch (13 mm) maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall extend 1½ inches (38 mm) maximum over the tread below.



Figure 504.5 Stair Nosings

504.6 Handrails. Stairs shall have handrails complying with 505.

504.7 Wet Conditions. Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water.

505-Railings

505.1 General. Handrails provided along walking surfaces complying with 403, required at rampscomplying with 405, and required at stairs complying with 504 shall comply with 505.

Advisory 505.1 General. Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.8) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

505.2 Where Required. Handrails shall be provided on both sides of stairs and ramps.

505.3 Continuity. Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

505.4 Height. Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

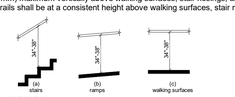


Figure 505.4 Handrail Height

505.5 Clearance. Clearance between handrail gripping surfaces and adjacent surfaces shall be 2 1/4 inches (57 mm) minimum.



Figure 505.5 Handrail Clearance Figure 505.6 Horizontal Projections Below Gripping Surface

505.6 Gripping Surface. Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

505.7.1 Circular Cross Section. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

505.7.2 Non-Circular Cross Sections. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum.

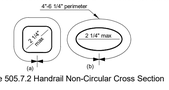


Figure 505.7.2 Handrail Non-Circular Cross Section

505.8 Surfaces. Handrail gripping surfaces and any surfaces adjacent to them shall be free of sharp or abrasive elements and shall have rounded edges.

505.9 Fittings. Handrails shall not rotate within their fittings.

505.10 Handrail Extensions. Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.

505.10.1 Top and Bottom Extension at Ramps. Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

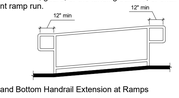


Figure 505.10.1 Top and Bottom Handrail Extension at Ramps

505.10.2 Top Extension at Stairs. At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

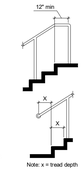


Figure 505.10.2 Top Handrail Extension at Stairs

Figure 505.10.3 Bottom Handrail Extension at Stairs

505.10.3 Bottom Extension at Stairs. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

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WDG Project No: 2024002

SHEET NAME
ADA REFERENCE GUIDELINES

SHEET NO. G101

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

602-Drinking Fountains

602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.
EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3½ inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.



Figure 602.5 Drinking Fountain Spout Location

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

603-Toilet and Bathing Rooms

603.2 Clearances. Clearances shall comply with 603.2.

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

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

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.
Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604-Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8. EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

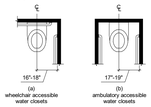


Figure 604.2 Water Closet Location

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.



Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.
EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.
EXCEPTIONS: 1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.
2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the seat.

604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.
EXCEPTIONS: 1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
3. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

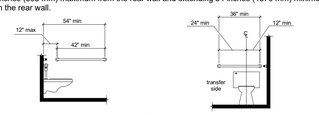


Figure 604.5.1 Side Wall Grab Bar at Water Closets &
Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.
EXCEPTIONS: 1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.
Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

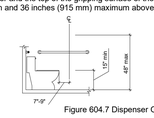


Figure 604.7 Dispenser Outlet Location

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

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

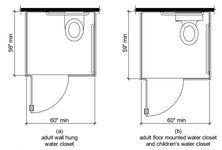


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

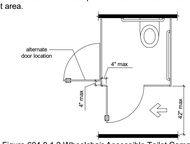


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

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

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.
EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.



Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

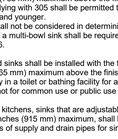


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1½ inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

605-Urinals

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13½ inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

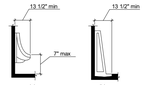


Figure 605.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606-Lavatories and Sinks

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.
EXCEPTIONS: 1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the fixture;
(b) the finish floor extends under the cabinetry; and
(c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.
5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.
EXCEPTIONS: 1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

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

606.5 Exposed Pipes and Surfaces. 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.

607-Bathtubs

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

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

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

608-Shower Compartments

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of
opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the showercompartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.
EXCEPTION: A lavatory complying with 606 shall be permitted on one 30 inch (760 mm) wide minimum side of the clearance provided that it is not on the side of the clearance adjacent to the controls or, where provided, not on the side of the clearance adjacent to the shower seat.

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

609-Grab Bars

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

703-Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".



Figure 703.2.5 Height of Raised Characters

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

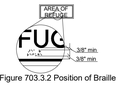


Figure 703.3.2 Position of Braille

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

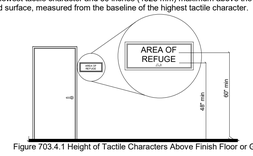


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

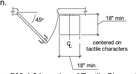


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

705-Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-to-base spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

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

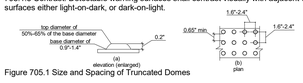


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

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50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
07/21/2023	50% DESIGN DEVELOPMENT

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
ADA REFERENCE GUIDELINES

SHEET NO. G102

PROJECT DATA AND CODE SUMMARY

PROJECT ADDRESS:
STEM NOLA
6800 PLAZA DRIVE, NEW ORLEANS, LA 70127 ZONING

PHONE: (504) XXX-XXXX

PROJECT SUMMARY

PHASE A — DEMOLITION OF EXISTING

PHASE B
A NEW — THE SCOPE OF THIS PROJECT CONSISTS OF

ZONING CLASSIFICATION:
C-3 HEAVY COMMERCIAL
(NEW ORLEANS COMPREHENSIVE ZONING ORDINANCE)

APPLICABLE CODES AND STANDARDS:

BUILDING CODE:	YEAR CODE (ACRONYM)
FIRE CODE:	YEAR CODE (ACRONYM)
MECHANICAL CODE:	YEAR CODE (ACRONYM)
PLUMBING CODE:	YEAR CODE (ACRONYM)
ELECTRICAL CODE:	YEAR CODE (ACRONYM)
ENERGY CODE:	YEAR CODE (ACRONYM)
ACCESSIBILITY CODE:	YEAR CODE (ACRONYM)
STORM SHELTER CODE:	YEAR CODE (ACRONYM)

OCCUPANCY CLASSIFICATION:
MAIN OCCUPANCY: — MAIN OCCUPANCY M-1

INCIDENTAL OCCUPANCIES: — INCIDENTAL OCCUPANCY I-1
INCIDENTAL OCCUPANCY I-2

BUILDING HEIGHTS AND AREAS:
CONSTRUCTION TYPE
MAIN BUILDING — *TYPE IIA (IBC)*
TYPE II (111) (NFPA-101)

SPRINKLERED — YES (NFPA, 12.3.5.2, 14.3.5.1.)

MAX. NUMBER OF FLOORS	2 STORIES
MAX. HEIGHT	75 FEET (IBC TABLE 503)
MAX. FLOOR AREA	37,500 SF/FLOOR (IBC TABLE 503)
FLOORS PROPOSED	2 STORIES
HEIGHT PROPOSED	34 FEET
FLOOR AREA PROPOSED	

Area	
FIRST FLOOR	*13,838 SF*
SECOND FLOOR	*12,275 SF*
MECH ROOF TO STL	*18,070 SF*
	44,184 SF
TOTAL	44,184 SF

OPEN SPACE = 10% — 1,000 SF OPEN SPACE / 10,000 SF TOTAL SITE

BASE FLOOD ELEVATION: — FEMA MAP X

MINIMUM FLOOR ELEVATION: — + 5.0 N.A.V.D.

EXISTING FIRST FLOOR ELEVATION: — + 5.0 N.A.V.D.

FIRE-RESISTANCE RATING REQUIREMENTS (IBC 601)

CONSTRUCTION TYPE	II-A
PRIMARY STRUCTURAL FRAME	X-HR
BEARING WALLS	
EXTERIOR	X-HR (IBC 704.10, 705.5)
INTERIOR	X-HR
NONBEARING WALLS & PARTITIONS	
EXTERIOR	X-HR (IBC 705.5)
INTERIOR	X-HR
FLOOR CONSTRUCTION	X-HR
ROOF CONSTRUCTION	X-HR
SHAFT ENCLOSURES	X-HR (IBC 713.4)
MACHINE ROOM	X-HR (IBC 3005.4)
EXIT STAIRWAY	X-HR (IBC 3006.4)
FIRE PUMP	X-HR

RISK CATEGORY: — X

MINIMUM NUMBER OF EXITS / STORY (IBC 1006.3.3)

OCCUPANT LOAD OF 1-500	2 EXITS REQUIRED
OCCUPANT LOAD OF 501-1,000	3 EXITS REQUIRED
OCCUPANT LOAD OF 1,000+	4 EXITS REQUIRED

IECC REQUIREMENTS
CLIMATE ZONE — 2A HOT-HUMID

ROOF	R-
WALLS (ABOVE GRADE)	R-
WALLS (BELOW GRADE)	NO REQUIREMENTS
CRAWLSPACE FLOOR	R-
GLAZING SHGC	PF<
	sPFs
	PFz
SKYLIGHTS	U-FACTOR = , SHGC =

Level	ROOM NUMBER	ROOM NAME	AREA	IBC Classification	Area Per Occupant-IBC	IBC Occupants	NFPA Classification	Area Per Occupant-NFPA	NFPA Occupants	Occupant Load Tag
FIRST FLOOR	100	LOBBY	1265 SF	(none)			(none)			
FIRST FLOOR	101	FLEX SPACE	3279 SF	(none)			(none)			
FIRST FLOOR	102	COLLABORATIVE STAIR	316 SF	(none)			(none)			
FIRST FLOOR	103	CO-WORKING SPACE 1	320 SF	(none)			(none)			
FIRST FLOOR	104	CO-WORKING SPACE 2	166 SF	(none)			(none)			
Not Placed	105	Room	Not Placed	CIRCULATION - NO OCCUPANCY INPUT			(none)			
Not Placed	107	Room	Not Placed	(none)			(none)			
FIRST FLOOR	107	STORAGE	369 SF	(none)			(none)			
FIRST FLOOR	107	JAN. CLO.	46 SF	(none)			(none)			
Not Placed	108	Room	Not Placed	CIRCULATION - NO OCCUPANCY INPUT			(none)			
FIRST FLOOR	108	ELECT. RM.	63 SF	(none)			(none)			
Not Placed	109	Room	Not Placed	BUSINESS AREAS	100 SF		(none)			
FIRST FLOOR	109	IT RM.	51 SF	(none)			(none)			
Not Placed	110	Room	Not Placed	(none)			(none)			
FIRST FLOOR	110	SPRINKLER RM.	54 SF	(none)			(none)			
Not Placed	111	Room	Not Placed	(none)			(none)			
FIRST FLOOR	111	LOADING DOCK	372 SF	(none)			(none)			
FIRST FLOOR	112	WET LAB	1048 SF	(none)			(none)			
Not Placed	113	Room	Not Placed	BUSINESS AREAS	100 SF		(none)			
FIRST FLOOR	113	CRAFT LAB	697 SF	(none)			(none)			
Not Placed	114	Room	Not Placed	CIRCULATION - NO OCCUPANCY INPUT			(none)			
FIRST FLOOR	114	CRAFT STOR.	110 SF	(none)			(none)			
Not Placed	115	Room	Not Placed	(none)			(none)			
FIRST FLOOR	115	CONF. RM. 1	226 SF	(none)			(none)			
FIRST FLOOR	116	SERVING	Redundant Room	(none)			(none)			
FIRST FLOOR	117	CATERING KITCHEN	152 SF	(none)			(none)			
FIRST FLOOR	118	WOODWORKING/ METAL SHOP	929 SF	(none)			(none)			
FIRST FLOOR	119	SHOP OFFICE	111 SF	(none)			(none)			
FIRST FLOOR	120	SHOP STOR.	109 SF	(none)			(none)			
FIRST FLOOR	121	MAKER SPACE + PROTOTYPE	1047 SF	(none)			(none)			
FIRST FLOOR	122	COMPUTER/ ROBOTICS	1054 SF	(none)			(none)			
Not Placed	124	Room	Not Placed	(none)			(none)			
Not Placed	125	Room	Not Placed	(none)			(none)			
Not Placed	126	Room	Not Placed	(none)			(none)			
Not Placed	127	Room	Not Placed	(none)			(none)			
Not Placed	128	Room	Not Placed	(none)			(none)			
Not Placed	129	Room	Not Placed	(none)			(none)			
Not Placed	130	Room	Not Placed	(none)			(none)			
Not Placed	131	Room	Not Placed	BUSINESS AREAS	100 SF		(none)			
SECOND FLOOR	200	FLEX SPACE	2218 SF	(none)			(none)			
FIRST FLOOR	201	WOMEN'S RESTROOM	265 SF	(none)			(none)			
FIRST FLOOR	202	MEN'S RESTROOM	239 SF	(none)			(none)			
SECOND FLOOR	204	MULTI-PURPOSE RM	901 SF	(none)			(none)			
SECOND FLOOR	205	STOR.	66 SF	(none)			(none)			
SECOND FLOOR	206	ELECT. RM.	43 SF	(none)			(none)			
SECOND FLOOR	207	IT RM.	39 SF	(none)			(none)			
SECOND FLOOR	208	DIGITAL MEDIA / GAMING	1989 SF	(none)			(none)			
SECOND FLOOR	209	STORAGE	130 SF	(none)			(none)			
SECOND FLOOR	210	PRIVATE GROUP POD	291 SF	(none)			(none)			
SECOND FLOOR	211	BREAK RM	520 SF	(none)			(none)			
SECOND FLOOR	212	CONF. RM 3	415 SF	(none)			(none)			
SECOND FLOOR	213	OPEN OFFICE	1233 SF	(none)			(none)			
SECOND FLOOR	214	VESTIBULE	40 SF	(none)			(none)			
SECOND FLOOR	215	TOILET RM	Redundant Room	(none)			(none)			
SECOND FLOOR	216	OFFICE	217 SF	(none)			(none)			
SECOND FLOOR	217	OFFICE	234 SF	(none)			(none)			
SECOND FLOOR	218	OFFICE	391 SF	(none)			(none)			
SECOND FLOOR	219	PRIVATE TOILET RM	67 SF	(none)			(none)			
SECOND FLOOR	220	STORAGE	30 SF	(none)			(none)			
SECOND FLOOR	221	OFFICE	191 SF	(none)			(none)			
SECOND FLOOR	222	OFFICE	192 SF	(none)			(none)			
SECOND FLOOR	223	CONF. RM. 2	199 SF	(none)			(none)			
SECOND FLOOR	224	CORRIDOR	261 SF	(none)			(none)			
SECOND FLOOR	225	CO-WORKING SPACE 5	316 SF	(none)			(none)			
SECOND FLOOR	226	CO-WORKING SPACE 4	306 SF	(none)			(none)			
SECOND FLOOR	227	CO-WORKING SPACE 3	307 SF	(none)			(none)			
SECOND FLOOR	228	PHONEBOOTH	27 SF	(none)			(none)			
SECOND FLOOR	228	CLOSET	26 SF	(none)			(none)			
Not Placed	1007	Room	Not Placed	CIRCULATION - NO OCCUPANCY INPUT			(none)			
Not Placed	1010	Room	Not Placed	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300 SF		(none)			2
FIRST FLOOR	STR 1	STAIR 1	214 SF	(none)			(none)			
FIRST FLOOR	STR 2	STAIR 2	220 SF	(none)			(none)			
			23370 SF			0				
Grand total			23370 SF			0				

LEVEL	OCCUPANT LOAD	Egress Width Factor (Non-Sprinklered)	Egress Width Required	Egress Stair Width Factor (Non-Sprinklered)	Egress Stair Width Required	EXITS PROVIDED	EGRESS WIDTH PROVIDED	EGRESS STAIR WIDTH PROVIDED
						2	42"	42"
						2	42"	42"

WILLARD DESIGN GROUP
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50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
07/21/2023	50% DESIGN DEVELOPMENT

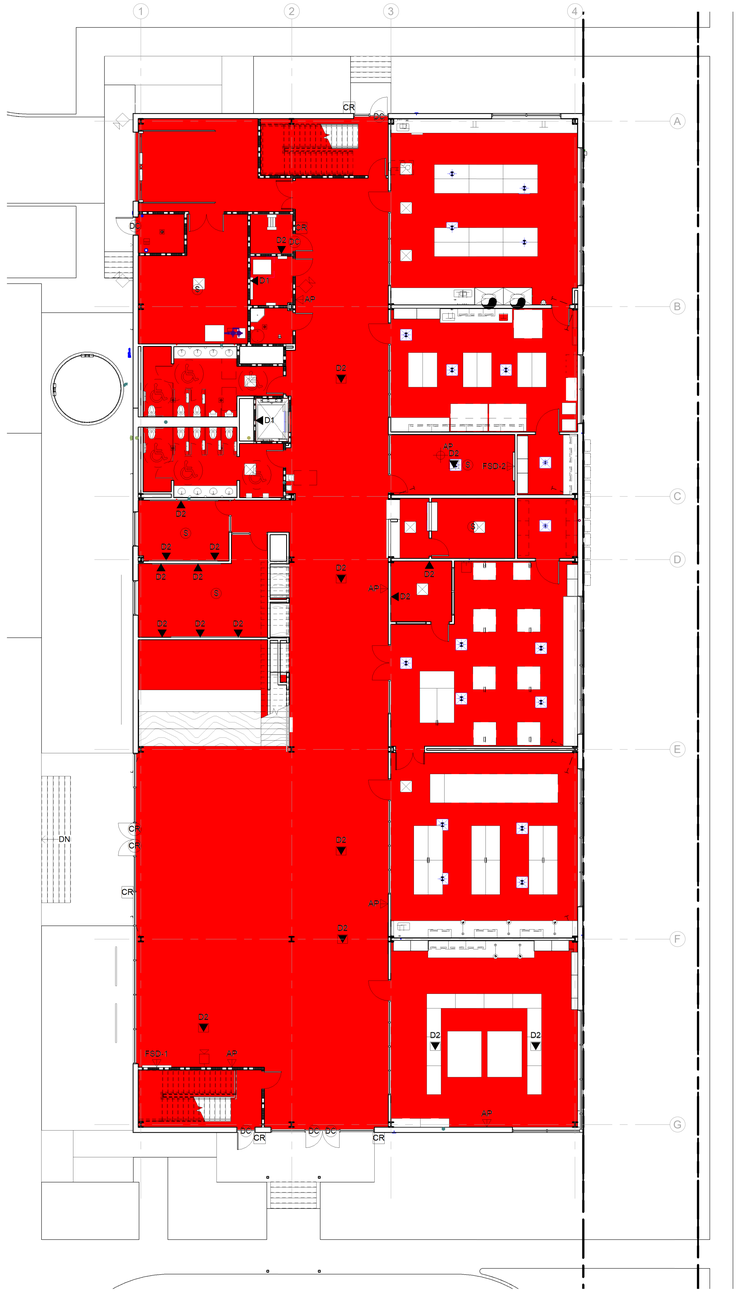
REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
CODE SUMMARY & INFORMATION

SHEET NO.
G110



1 A321 G121 FIRST FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"



2 A321 G121 SECOND FLOOR LIFE SAFETY PLAN

3/32" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. RE: G110 FOR BUILDING CODE SUMMARY & INFORMATION
2. RE: G300 FOR RATED WALL TYPES & INFORMATION
3. RE: ELEC. FOR SMOKE DETECTORS, EXIT LIGHTING, & FIRE ALARM INFORMATION.

LEGEND

Name	ROOM NAME
101	ROOM NUMBER
150 SF	AREA
XXX OCC	OCC. LOAD

FIRE WALL
1-HR FIRE RATED PARTITION
2-HR FIRE RATED PARTITION
3-HR FIRE RATED PARTITION
SMOKE BARRIER

EXIT ACCESS PATH OF TRAVEL
COMMON PATH OF TRAVEL

NEW EMERGENCY EXIT SIGN
EXISTING EMERGENCY EXIT SIGN

1HR DOOR FIRE RATING

ROOM LABELS:

EXIT CAPACITY:

TOTAL OCC. / EXIT

EXIT EXIT #

FIRE EXTINGUISHERS AND CABINETS:

FEC RECESSED FIRE EXTINGUISHER CABINET

IBC CLASSIFICATION	AREA	AREA/ OCC.	OCC. LOAD	EXIT WIDTH/ OCC.	TOTAL REQ. EXIT WIDTH

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07/21/2023	50% DESIGN DEVELOPMENT

REVISIONS

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WDG Project No: 2024002

SHEET NAME

FIRST FLOOR LIFE SAFETY PLAN

SHEET NO. G121

IBC CLASSIFICATION	AREA	AREA/ OCC.	OCC. LOAD	EXIT WIDTH/ OCC.	TOTAL REQ. EXIT WIDTH

ROOM LABELS:

EXIT CAPACITY:



FIRE EXTINGUISHERS AND CABINETS:

FEC — RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

SHEET NOTES

1. RE: G110 FOR BUILDING CODE SUMMARY & INFORMATION
2. RE: G300 FOR RATED WALL TYPES & INFORMATION
3. RE: ELEC. FOR SMOKE DETECTORS, EXIT LIGHTING, & FIRE ALARM INFORMATION.

LEGEND

Name 101 150 SF XXX OCC	ROOM NAME ROOM NUMBER AREA OCC. LOAD
	FIRE WALL
	1-HR FIRE RATED PARTITION
	2-HR FIRE RATED PARTITION
	3-HR FIRE RATED PARTITION
	SMOKE BARRIER
	EXIT ACCESS PATH OF TRAVEL
	COMMON PATH OF TRAVEL
	NEW EMERGENCY EXIT SIGN
	EXISTING EMERGENCY EXIT SIGN
1HR	DOOR FIRE RATING

WILLARD DESIGN GROUP
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REVISIONS

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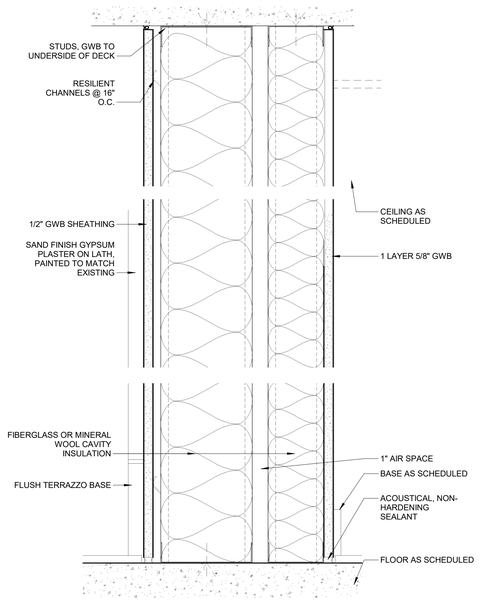
WDG Project No: 2024002

SHEET NAME

SECOND FLOOR LIFE SAFETY PLAN

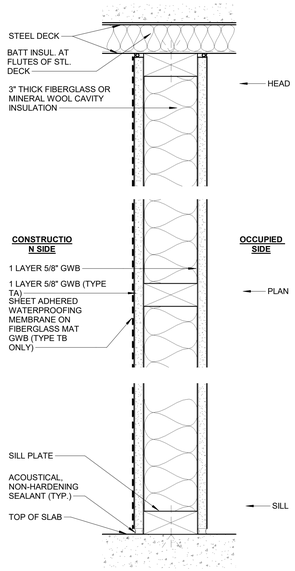
SHEET NO. G122

TYPE 7: DOUBLE-STUD ACOUSTIC WALL TO MATCH EXISTING ADJACENT



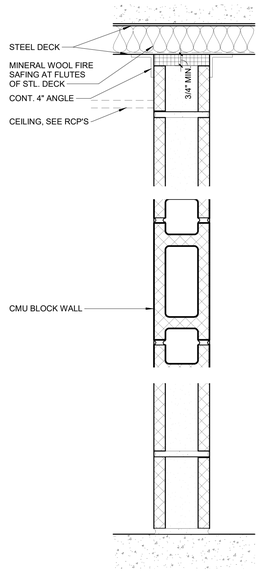
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
7AX-X	AS SHOWN, TO MATCH EXISTING ADJACENT		

TYPE T: TEMPORARY ACOUSTIC PARTITION



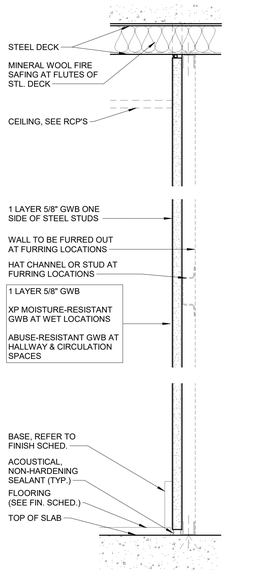
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
TAX-X	AS SHOWN		45
TBX-X	TEMPORARY EXTERIOR LOCATIONS		45
TCX-X	PROTECTION ONLY, NO INSULATION		45

TYPE 6: CMU PARTITION



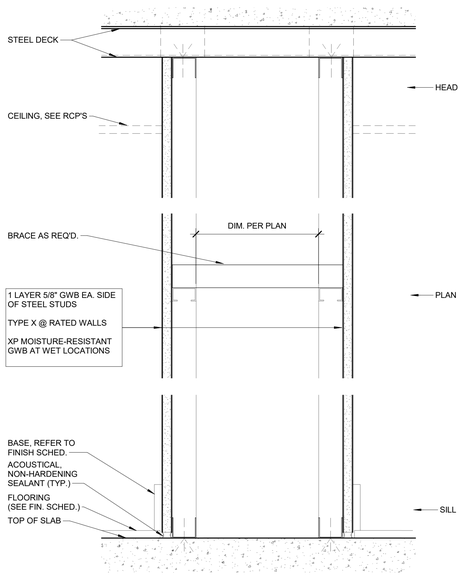
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
6AX-2	AS SHOWN	2-HR: U906	

TYPE 5: ONE-SIDED PARTITION / FURRING



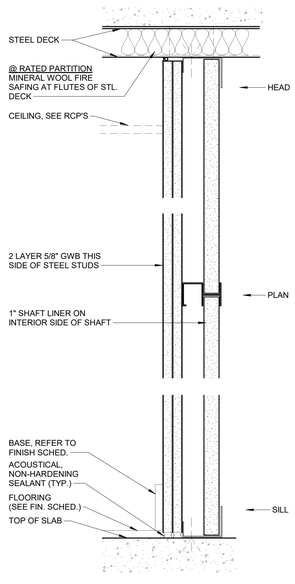
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
5AX-X	AS SHOWN		

TYPE 4: STEEL STUD PLUMBING CHASE



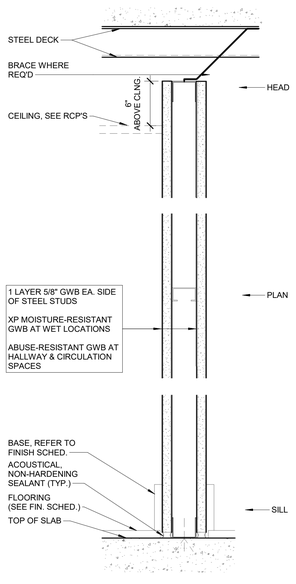
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
4AX-X	AS SHOWN	N/A	

TYPE 3: STEEL STUD SHAFT WALL



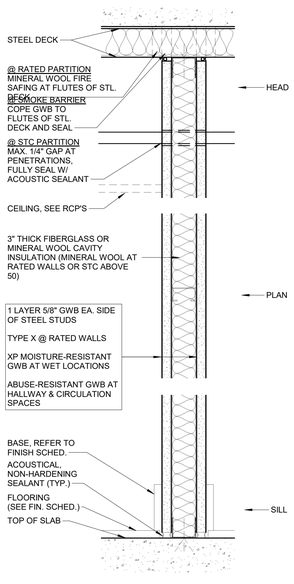
MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
3AX-2	AS SHOWN	2-HR: U415	
3BX-1	(1) LAYER TYPE-X GWB	1-HR: U415	

TYPE 2: STEEL STUD PARTITION



MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
2AX-X	AS SHOWN	N/A	

TYPE 1: STEEL STUD PARTITION TO DECK

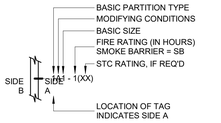


MODIFIER DESCRIPTIONS		UL# AT RATING, WHERE APPL.	STC #
1AX-X	AS SHOWN ABOVE, NO INSULATION	1-HR: U465	
1BX-X	AS SHOWN	1-HR: U465	45
1CX-X	(2) LAYERS TYPE-X GWB, ONE SIDE		50
1DX-X	(2) LAYERS TYPE-X GWB, EACH SIDE	2-HR: U411	55
1EX-X	(3) LAYERS TYPE-X GWB, EACH SIDE	3-HR: U419	60

GENERAL NOTES

SHEET NOTES

LEGEND



BASIC SIZE:

0: 7/8" x 20 GA. FURRING HAT CHANNEL
1: 1 5/8" x 20 GA. STUD
2: 2 1/2" x 20 GA. STUD
3: 3 5/8" x 20 GA. STUD
4: 4" CONCRETE, MASONRY OR 20 GA. STUD
5: 4" C-H X 1 1/2" DEEP 20 GA. STUD
6: 6" CONCRETE, MASONRY OR 20 GA. STUD
8: 8" CONCRETE, MASONRY OR 20 GA. STUD

FIRE RATING:

SB: SMOKE BARRIER
1: 1-HR FIRE BARRIER
2: 2-HR FIRE BARRIER

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
07/21/2023	50% DESIGN DEVELOPMENT

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME

PARTITION TYPES & SCHEDULE

SHEET NO.

G300

SHOWER COMPARTMENTS (SECTION 608)

SHOWER UNIT:
608.6 ADA & 608.6 ANSI

EXCEPTION a fixed shower head mounted at 48" above the shower floor may be used in lieu of the hand held shower head in facilities that are not medical facilities, long term care facilities, transient lodging guest rooms or dwelling units.

THRESHOLDS
608.7 ADA & 608.6 ANSI - Thresholds at roll in type shower compartments shall be 1/2" maximum in height in accordance with Section 303. See Below

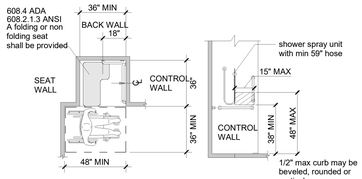
In transfer type shower compartments, thresholds 1/2" maximum in height shall be beveled, rounded or vertical.

303.2 - changes in level of 1/4" maximum in height shall be permitted to be vertical.

303.3 - changes in level greater than 1/4" in height and not more than 1/2" maximum in height shall be beveled with a slope not steeper than 1:2

608.4 ADA
A folding seat shall be provided at required transient lodging guest rooms

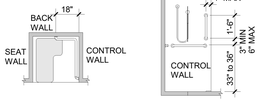
608.4 ADA
608.2.1.3 ANSI
A folding or non folding seat shall be provided.



SIZE AND CLEARANCE
608.2.1 ADA
608.2.1 ANSI

HAND SHOWER AND CONTROLS LOCATION
608.5.1 ADA
608.4.1 ANSI

NOTE: Inside finished dimensions are measured at the center points of opposing sides.

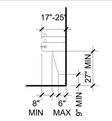


WITH SINGLE PIECE HORIZONTAL GRAB BAR
608.3.1 ADA
608.3.1.3 ANSI

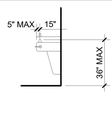
VERTICAL GRAB BAR LOCATION
608.3.1.2 ANSI

TRANSFER TYPE COMPARTMENT

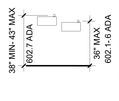
DRINKING FOUNTAINS (SECTION 602)



KNEE AND TOE CLEARANCES
306.2 & 306.3 ADA
306.2 & 306.3 ANSI

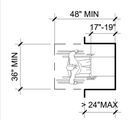


SPOUT LOCATION
602.4 & 602.5 ADA
602.4 & 602.5 ANSI

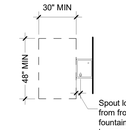


SINGLE FOUNTAIN "HIGH - LOW"
211.2 ADA Exception

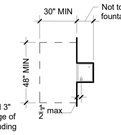
211.2 MINIMUM NUMBER - No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with 602.1 through 602.6 and one drinking fountain shall comply with 602.7.
EXCEPTION: Where a single drinking fountain complies with 602.1 through 602.6 and 602.7, it shall be permitted to be substituted for two separate drinking fountains.



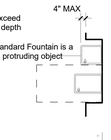
CLEARANCES AND FORWARD APPROACH
305.7 ADA
305.7 ANSI



FREE STANDING FOUNTAIN OR COOLER; OR PARALLEL APPROACH



BUILT IN FOUNTAIN OR COOLER; OR PARALLEL APPROACH



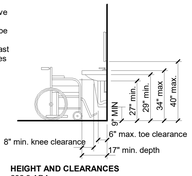
SINGLE FOUNTAIN OR COOLER IN ALCOVE
307 ADA
307 ANSI

LAVATORIES & MIRRORS

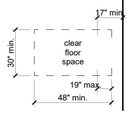
LAVATORIES WITH ENHANCED REACH RANGES:
606.5 ANSI - faucets, soap dispenser controls shall have a reach depth of 11". If automatic, activation to occur within a reach depth of 11". Water and soap flow shall be provided within 11" reach depth. 2009 IBC Section 1109.2.3 When 6 or more lavatories are required, at least one shall comply with 606.5 as well as one that complies with 606.

EXPOSED PIPES and SURFACES:
606.5 ADA & 606.6 ANSI -Water supply and drain lines under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

MIRRORS:
603.3 ADA & 603.3 ANSI -When mirrors are located above a counter or lavatory the mirrors shall be mounted with the bottom edge of the reflecting surface no higher than 40" above the finish floor.
Mirrors not located above a counter or lavatory shall be installed with the bottom edge of the reflecting surface at 35" max above the finish floor.



HEIGHT AND CLEARANCES
606.3 ADA
606.3 ANSI



CLEAR FLOOR SPACE
606.2 ADA
606.2 ANSI

SHOWER SEATS

HEIGHT OF SEATS = 17"min - 19" max AFF

L SHAPED SEAT
610.3.2 ADA
610.3.2 ANSI

RECTANGULAR SEAT
610.3.1 ADA
610.3.1 ANSI

NOTE: If a seat is provided and it extends over the required minimum
clear inside dimension, the seat shall be a folding seat. ANSI 608.4

GRAB BARS (SECTION 609)

CIRCULAR
609.2.1 ADA
609.2.1 ANSI

SPACING
609.3 ADA
609.3 ANSI
between the grab bars and shower controls, shower fittings, and other grab bars shall be permitted to be 1

WATER CLOSETS / TOILET STALLS / URINALS

REAR WALL GRAB BARS
604.5.2 ADA
604.5.2 ANSI

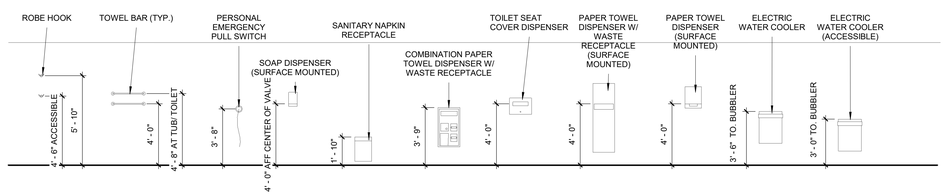
SIDE WALL GRAB BARS

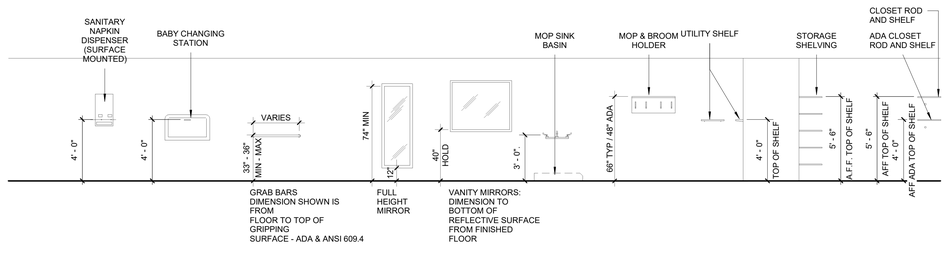
604.5.1 ANSI

DISPENSER OUTLET LOCATIONS
604.7 & 609.3 ADA
604.7 & 609.3 ANSI

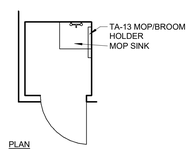
* Areas shown above are for recessed dispensers. Protruding dispenser locations are subject to additional clearances at grab bar as shown.

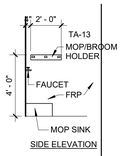
TOILET ACCESSORY MOUNTING HEIGHTS



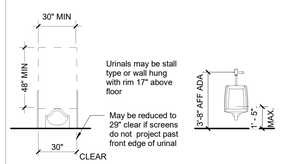


JANITORS CLOSET



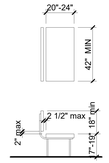


URINALS (SECTION 605)



CLEAR FLOOR SPACE
605.3 ADA
605.3 ANSI

BENCHES (SECTION 903)



BENCH SIZE
903 ADA
903 ANSI

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
07/21/2023	50% DESIGN DEVELOPMENT

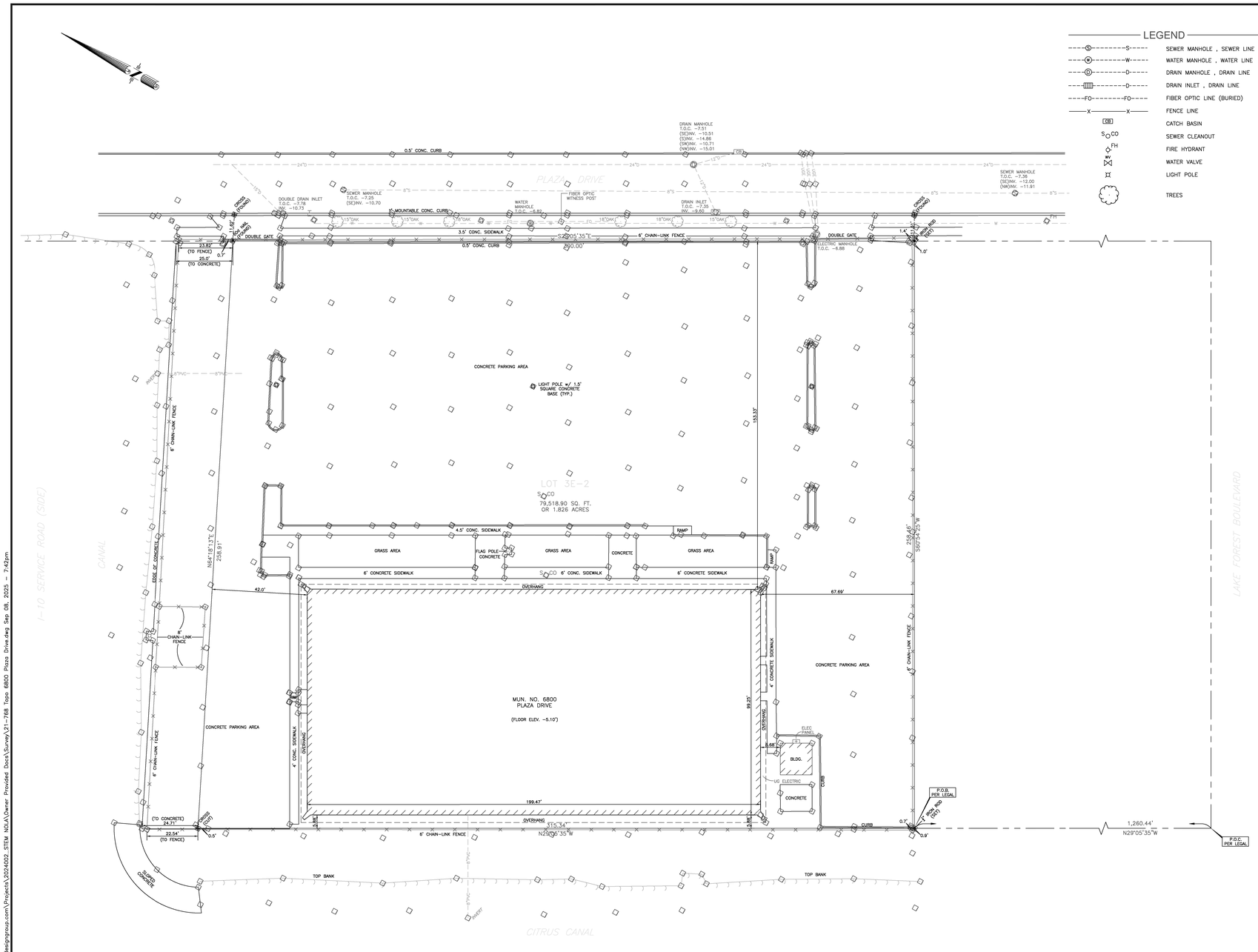
REVISIONS

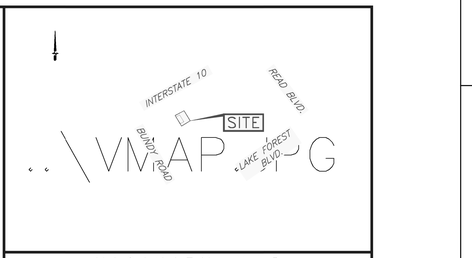
NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
TYP. MOUNTING HEIGHTS

SHEET NO.
G301





VICINITY MAP
(NOT TO SCALE)

NOTES:

1) THE SERVITUDES SHOWN ON THIS PLAN ARE LIMITED TO THOSE FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES ARE REFLECTED OR SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS PLAN.

2) THE PERIMETER SHOWN SHALL NOT CONSTITUTE A LEGAL OPINION OF TITLE, AND SHALL NOT BE RELIED UPON FOR THAT PURPOSE. THERE IS NO WARRANTY THAT IT CONFORMS TO THE LEGAL TITLE, AND WAS MADE SOLELY ACCORDING TO THE INFORMATION PROVIDED THE SURVEYOR.

3) CERTAIN FEATURES, I.E., FENCES, WALLS, ETC. MAY BE EXAGGERATED IN SCALE FOR CLARITY. DIMENSIONS SHOW ACTUAL LOCATION.

4) ALL FENCE DIMENSIONS ARE MEASURED FROM FACE OF FENCE. FENCE IS ON THE PROPERTY LINE IF NO DIMENSION IS GIVEN.

5) REFERENCES: LEGAL DESCRIPTION.

6) NORTH BASED ON LOUISIANA STATE PLANE COORDINATES, SOUTH ZONE.

7) MUNICIPAL NUMBER: 6800 PLAZA DRIVE, NEW ORLEANS, LA.

8) THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO EXCAVATION AND DIGGING.

9) DATUM: NAVD '88.

10) FLOOD ZONE: AE, EL. -7.0' AS PER MAP / PANEL NO. 22071C-0136 EFFECTIVE 09/30/2016.

SURVEY MADE AT THE REQUEST OF CENTER FOR INNOVATIVE TRAINING OF YOUTH d/b/a STEM NOLA.

12/28/2021

THE PROPERTY BOUNDARY SURVEY RECORDED HEREON WAS MADE ON THE GROUND UNDER MY DIRECT SUPERVISION, AND IS IN ACCORDANCE WITH APPLICABLE STANDARDS OF PRACTICE FOR PROFESSIONAL LAND SURVEYORS AS STIPULATED IN LOUISIANA ADMINISTRATIVE CODE TITLE 46:LXI, CHAPTER 29 FOR A CLASS "C" SURVEY.

BY: _____
RICHARD T. DADING, P.L.S.
LA REGISTRATION NO. 4399

TOPOGRAPHIC AND BOUNDARY SURVEY OF
LOT 3E-2, SECTION 23
LaKRATT TRACT
(FORMERLY THE NEW ORLEANS LAKESHORE LAND COMPANY SUBDIVISION)
THIRD MUNICIPAL DISTRICT
CITY OF NEW ORLEANS
ORLEANS PARISH, LOUISIANA

GRAPHIC SCALE
20 0 10 20
(IN FEET)
1 inch = 20 ft.

Z:\Library\Logo and letterhead\survey plat logo.jpg

SCALE:	1" = 20'	DRAWN BY:	EWP
DATE:	12/28/2021	CHECKED BY:	CAM
JOB NO.	21-768	SHEET NO.	1 OF 1

C:\Users\User\OneDrive - willarddesigngroup.com\Projects\2024002_STEM NOLA\Owner Provided Docs\Survey\21-768 Topo 6800 Plaza Drive.dwg Sep 08, 2025 - 7:42pm

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM NOLA
6800 PLAZA DRIVE, NEW ORLEANS, LA 70127 MULTI-PURPOSE BUILDING
50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR

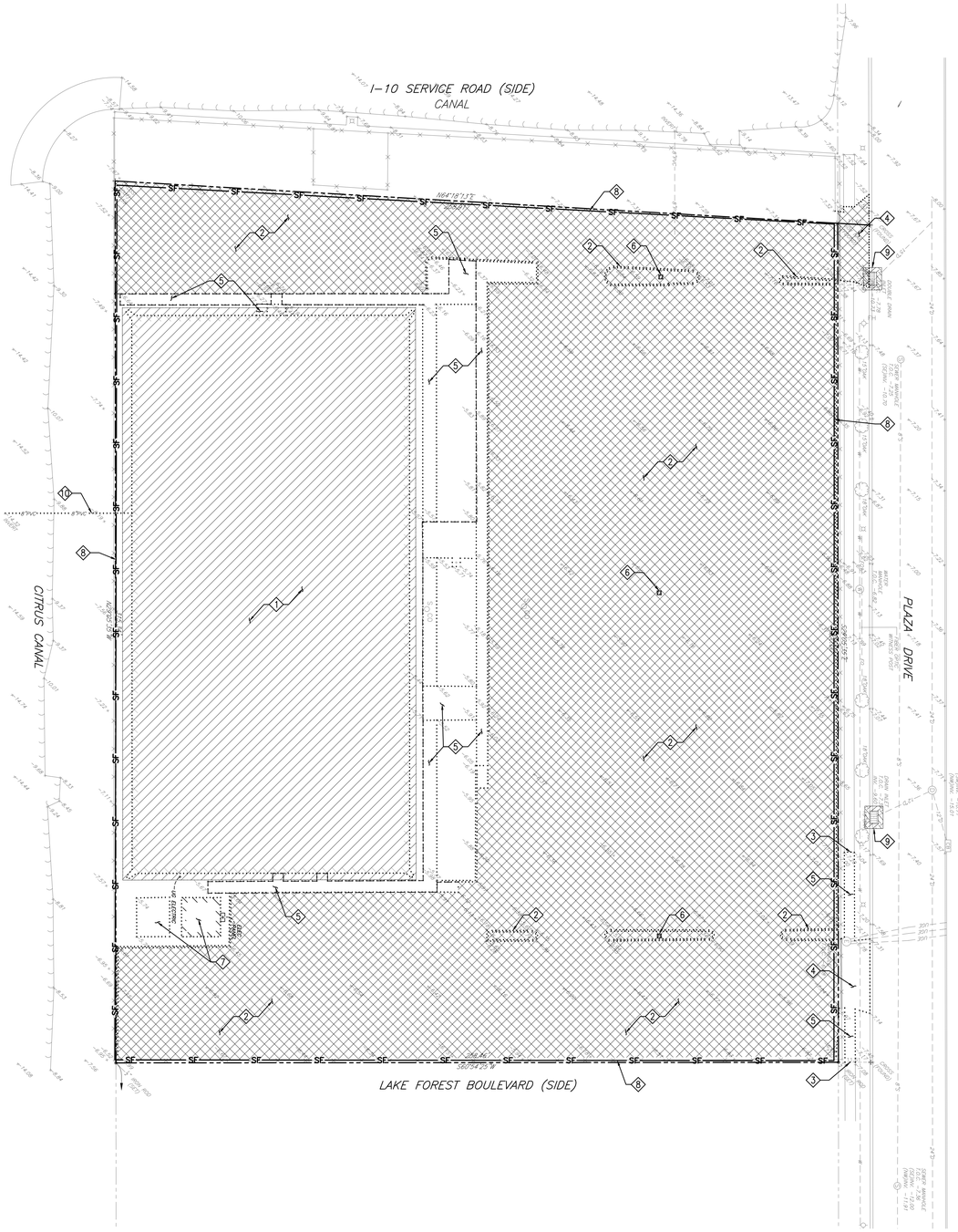
REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
SITE SURVEY

SHEET NO. V001



DEMOLITION NOTES:

1. CONTRACTOR SHALL INSPECT PARKING LOT, ROADWAYS ADJACENT TO THE CONSTRUCTION SITE DAILY. SWEEP OR VACUUM TO REMOVE VISIBLE ACCUMULATED SEDIMENT. REMOVE ALL SEDIMENT DEPOSITED ON ROADWAY WITHIN 24 HOURS.
2. ALL DEMOLISHED, REMOVED MATERIAL AND DEBRIS SHALL BE HAULED OFF THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL LAWS, REQUIREMENTS AND ORDINANCES.
3. EXISTING SIDEWALK AND PAVING TO BE REMOVED SHALL BE SCHEDULED AND COORDINATED WITH NEW PAVING. THIS WILL MINIMIZE ANY CONSTRUCTION INCONVENIENCE TO PEDESTRIAN AND VEHICULAR TRAFFIC.
4. CASTING OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK SHALL BE FIELD ADJUSTED, CASTING TO BE FLUSHED WITH NEW PAVING OR FINISHED GRADE.
5. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL PERIMETER CATCH BASINS AND DRAIN INLETS AND CONNECTING DRAIN LINES TO MAINTAIN POSITIVE DRAINAGE FLOW AND RESTORE SERVICES.
6. IT IS CONTRACTOR'S RESPONSIBILITY AND MEANS & METHOD TO PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING THE PROJECT SITE AND SURROUNDING AREAS. SEE EARTHWORK SPECIFICATION 312000 FOR DEWATERING.

DEMOLITION PLAN KEY NOTES:

1. EXISTING BUILDING, ROOF AND FOUNDATION TO BE REMOVED, SEE ARCH. AND STRUCTURAL.
2. EXISTING CONCRETE PAVING AND CURBED ISLANDS TO BE DEMOLISHED AND REMOVED FROM SITE.
3. SAWCUT EXIST. PAVING TO MAINTAIN STRAIGHT EDGE – TYP.
4. EXISTING CONCRETE DRIVEWAY ENTRANCE TO BE DEMOLISHED AND REMOVED.
5. DEMOLISH AND REMOVE EXISTING CONCRETE SIDEWALK.
6. DEMOLISH AND REMOVE ELECTRICAL LIGHT POLE SUPPORTS AND APPURTENANCES, SEE MEP.
7. EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND/OR RELOCATED, SEE ARCH.
8. SEDIMENT (SILT) FENCE. SEE 2/C002 AND 3/C002 – TYP. LOCATION OF SILT FENCE SHOWN HEREON FOR REFERENCE PURPOSES ONLY. CONTRACTOR SHALL ADJUST SILT FENCE AS REQUIRED BASED ON CONSTRUCTION ACTIVITIES, SEQUENCING AND METHODOLOGIES.
9. PROVIDE SEDIMENT CONTROL AT EXISTING CATCH BASINS TO PREVENT DIRT, DEBRIS, SEDIMENT ENTERING INTO EXISTING SUBSURFACE DRAINAGE SYSTEM. SEE 5/C002 – TYP.
10. EXISTING DRAIN LINE TO BE REMOVED AND REPLACED WITH NEW DRAIN LINE.

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN LEGEND

- EXISTING ITEMS TO BE REMOVED
- SF — SEDIMENT (SILT) FENCE, SEE 2/C002 AND 3/C002
- EXISTING BUILDING, ROOF AND FOUNDATION TO BE REMOVED, SEE ARCH. AND STRUCTURAL.
- EXISTING CONCRETE PAVEMENT TO BE DEMOLISHED AND REMOVED
- PROVIDE SEDIMENT CONTROL AT EXISTING DRAIN INLETS, SEE 5/C002

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 C001 DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN
1"=20'

811 Know what's below. Call before you dig.

PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM EXPLORATION
MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

WDG Project No: 24002

SHEET NAME
DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

SHEET NO. C001

1 C0.02 EROSION AND SEDIMENT CONTROL PLAN NOTES

GENERAL
1. THE PURPOSE OF THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) IS TO COMMUNICATE A REASONABLE STARTING POINT FOR TENDERING AND DEVELOPMENT OF A SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE SWPPP AND ALL DRAINAGE, EROSION AND SEDIMENT CONTROL (ESC) MEASURES TAKEN. THE INFORMATION SHOWN HEREIN IS PROVIDED BASED ON MMI'S EXPERIENCE AND IS FOR THE CONTRACTOR'S CONSIDERATION ONLY. THIS ESCP IS NOT INTENDED TO BE COMPLETE OR COMPREHENSIVE.
2. THE SWPPP SHALL BE DEVELOPED BY THE CONTRACTOR TO SUPPORT THE ACTUAL CONSTRUCTION SEQUENCING, CONSTRUCTION METHODOLOGIES, LOCAL SITE CONDITIONS, AND DETAIL ACTUAL REQUIRED ESC MEASURES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF THE ACTUAL ESC MEASURES AND ACHIEVING LEGAL REQUIREMENTS.
4. ADDITIONAL ESC MEASURES MUST BE IMPLEMENTED IN THE EVENT THAT SITE CONDITIONS CHANGE SIGNIFICANTLY FROM THOSE ORIGINALLY CONSIDERED.
5. WHERE THERE IS A HIGH PROBABILITY THAT SERIOUS OR MATERIAL ENVIRONMENTAL HARM MAY OCCUR AS A RESULT OF SEDIMENT LEAVING THE SITE, APPROPRIATE ADDITIONAL ESC MEASURES MUST BE IMPLEMENTED SUCH THAT ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT OR MINIMIZE SUCH HARM.
6. NO ESC MEASURES SHALL BE INSTALLED OR CONSTRUCTED ON ADJACENT PROPERTIES.
7. ALL ON-SITE STAFF INCLUDING SUB-CONTRACTORS SHALL BE MADE AWARE OF THEIR SWPPP RESPONSIBILITIES.

SITE ACCESS
1. PRIOR TO THE COMMENCEMENT OF SITE WORKS, THE LOCATION OF THE SITE ACCESS POINT(S) SHALL BE RESTRICTED TO THE MINIMUM PRACTICAL NUMBER OF LOCATIONS.
2. THE SITE ACCESS POINT(S) MUST BE APPROPRIATELY MANAGED TO MINIMIZE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
3. STORMWATER RUNOFF FROM ACCESS ROADS AND THE SITE ACCESS POINT(S) MUST DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.

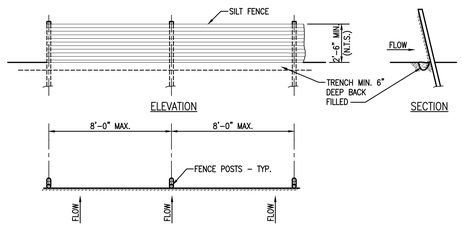
SITE MANAGEMENT
1. ALL OFFICE FACILITIES AND OPERATIONAL ACTIVITIES MUST BE LOCATED SUCH THAT ANY LIQUID EFFLUENT CAN BE TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
2. THE CONSTRUCTION SCHEDULE MUST AIM TO MINIMIZE THE DURATION THAT ANY AND ALL AREAS OF SOIL ARE EXPOSED TO THE EROSIVE EFFECTS OF WIND, RAIN AND SURFACE WATER.
3. ADEQUATE WASTE COLLECTION BINS MUST BE PROVIDED ON-SITE AND MAINTAINED SUCH THAT POTENTIAL AND ACTUAL ENVIRONMENTAL HARM RESULTING FROM SUCH MATERIAL WASTE IS MINIMIZED.
4. CONCRETE WASTE AND CHEMICAL PRODUCTS, INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, MUST BE PREVENTED FROM ENTERING ANY STORMWATER SYSTEM.
5. ALL FLAMMABLE AND COMBUSTIBLE LIQUIDS, INCLUDING ALL LIQUID CHEMICALS IF SUCH CHEMICALS COULD POTENTIALLY BE WASHED OR DISCHARGED FROM THE SITE, ARE STORED AND HANDLED ON-SITE IN ACCORDANCE WITH RELEVANT STANDARDS.
6. SITE SPOIL MUST BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

DRAINAGE CONTROL
1. ALL DRAINAGE CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE LADOTD EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS.
2. DURING THE CONSTRUCTION PERIOD, ALL REASONABLE AND PRACTICABLE MEASURES MUST BE IMPLEMENTED TO CONTROL FLOW VELOCITIES IN SUCH A MANNER THAN PREVENTS SOIL EROSION ALONG DRAINAGE PATHS AND AT THE ENTRANCE AND EXIT OF ALL DRAINS AND DRAINAGE PIPES.
3. TO THE MAXIMUM DEGREE REASONABLE AND PRACTICABLE, ALL WATERS DISCHARGED DURING THE CONSTRUCTION PHASE MUST DISCHARGE ONTO STABLE LAND, IN A NON-EROSIVE MANNER, AND AT A LEGAL POINT OF DISCHARGE.
4. DURING THE CONSTRUCTION PERIOD, ROOF WATER MUST BE MANAGED IN A MANNER THAT MINIMIZES SOIL EROSION THROUGHOUT THE SITE..

SEDIMENT CONTROL
1. ALL SEDIMENT CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE LADOTD EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS.
2. OPTIMUM BENEFIT MUST BE MADE OF EVERY OPPORTUNITY TO TRAP SEDIMENT WITHIN THE WORK SITE, AND AS CLOSE AS PRACTICABLE TO ITS SOURCE.
3. SEDIMENT TRAPS MUST BE INSTALLED AND OPERATED TO COLLECT AND RETAIN SEDIMENT.
4. ALL REASONABLE AND PRACTICABLE MEASURES MUST BE TAKEN TO PREVENT, OR AT LEAST MINIMIZE, THE RELEASE OF SEDIMENT FROM THE SITE.
5. SEDIMENT CONTROL DEVICES MUST BE DE-SILTED, MAINTAINED THROUGHOUT THE DURATION OF PROJECT.

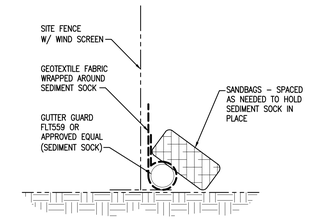
SITE MAINTENANCE
1. ALL ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATIONAL LIVES.
2. ALL TEMPORARY ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE FULLY OPERATIONAL AND MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THE MAINTENANCE PERIOD.
3. ALL TEMPORARY ESC MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE REMOVED AFTER ACHIEVING A SATISFACTORY "OFF-MAINTENANCE INSPECTION".
4. ALL DRAINAGE AND ESC MEASURES MUST BE INSPECTED:
   - AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE);
   - AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE);
   - WITHIN 24 HOURS OF EXPECTED RAINFALL; AND
   - WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE RUNOFF ON-SITE.
5. WASHING/FLUSHING OF ROADWAYS MUST ONLY OCCUR WHERE SWEEPING HAS FAILED TO REMOVE SUFFICIENT SEDIMENT AND THERE IS A COMPELLING NEED TO REMOVE THE REMAINING SEDIMENT (E.G. FOR SAFETY REASONS). IN SUCH CIRCUMSTANCES, ALL REASONABLE AND PRACTICABLE SEDIMENT CONTROL MEASURES MUST BE USED TO PREVENT, OR AT LEAST MINIMIZE, THE RELEASE OF SEDIMENT INTO RECEIVING WATERS.
6. SEDIMENT REMOVED FROM SEDIMENT TRAPS AND PLACES OF SEDIMENT DEPOSITION MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

RELATED DOCUMENTS
1. THE CONTRACTOR IS TO HAVE AT LEAST ONE APPROVED COPY OF SWPPP ON-SITE.



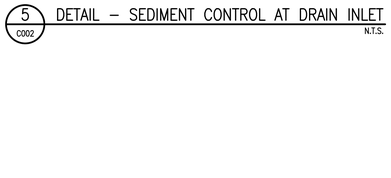
NOTES:
1. SILT FENCES SHALL BE INSTALLED AND MAINTAINED BY THE TRADE CONTRACTOR AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER UNTIL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
2. ACCUMULATED SILT/SEDIMENT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO FURTHER SILTATION.
3. MATERIALS:
   A. POSTS SHALL BE STEEL OR WOODEN FENCE POSTS.
   B. SILT FENCE SHALL BE BURLAP WEIGHING 7-1/2 OUNCES PER SQUARE YARD, APPROVED JUTE FABRIC OR GEOTEXTILE FABRIC. SILT FENCE SHALL BE SECURELY FASTENED TO EACH POST OR TO WOVEN WIRE WHICH IN TURN SHALL BE FASTENED TO EACH POST.
4. SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
5. TRADE CONTRACTOR SHALL PROVIDE A REMOVABLE SECTION FOR SITE ACCESS.
6. SILT FENCE LOCATIONS SHALL BE AS SHOWN ON THE DRAWINGS AND AS DIRECTED BY THE EOR.
7. SILT FENCE LOCATIONS SHOWN ON PLAN ARE INDICATIVE AND ARE NOT INTENDED TO BE COMPLETE OR COMPREHENSIVE.

2 C002 DETAIL - SILT (SEDIMENT) FENCE
1/4"=1'-0"



3 C002 DETAIL - SEDIMENT CONTROL AT CONSTRUCTION /SITE FENCE (IF REQUIRED)
1/2"=1'-0"

4 C002 DETAIL - SAWCUT
3/4"=1'-0"



5 C002 DETAIL - SEDIMENT CONTROL AT DRAIN INLET
N.T.S.

PRELIMINARY PROGRESS SET
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WILLARD DESIGN GROUP
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STEM NOLA
SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

SCHEMATIC DESIGN

DRAWING ISSUE

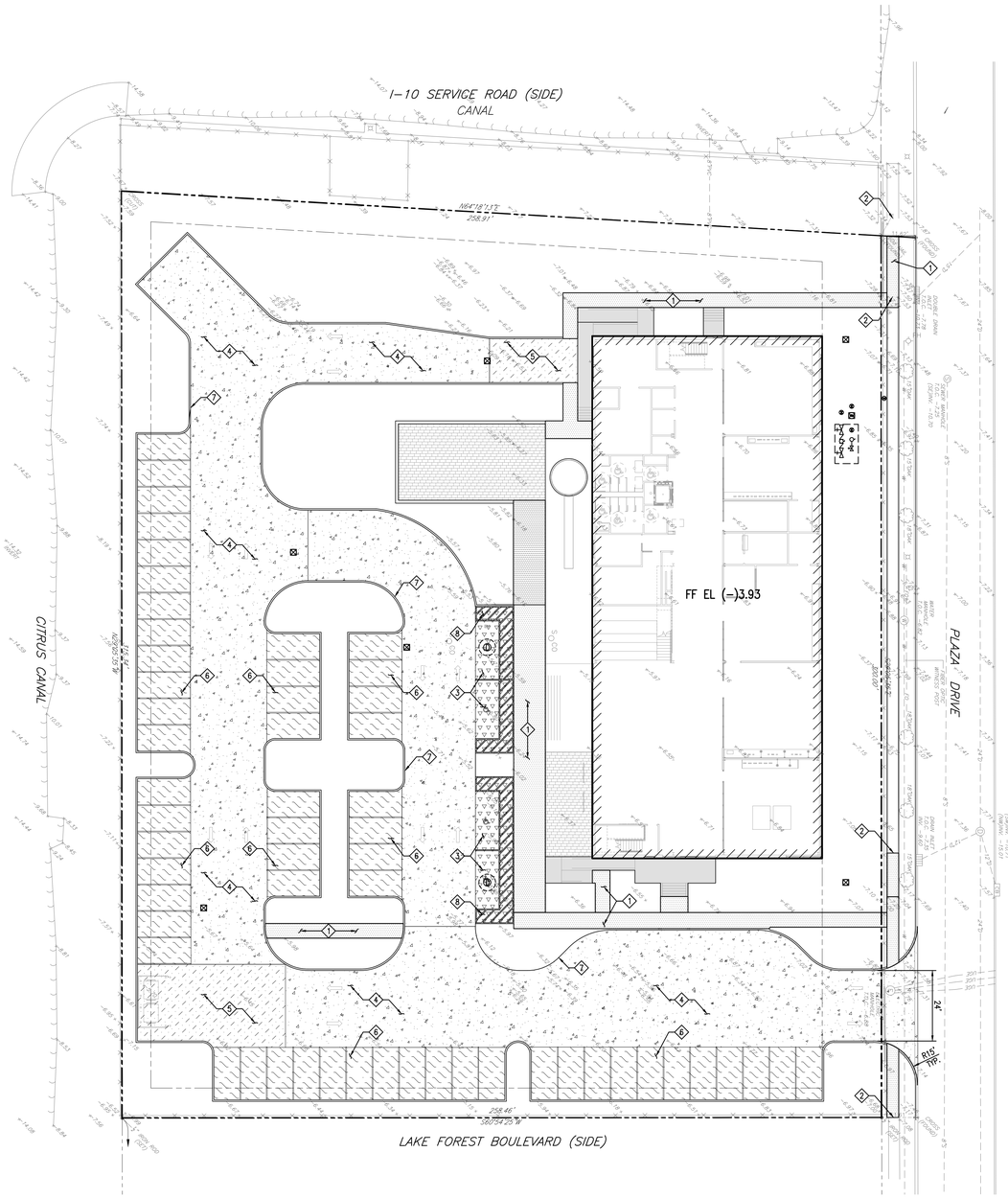
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WDG Project No: 24002

SHEET NAME
DEMOLITION AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SHEET NO. C002



SITE PLAN KEY NOTES:

1. CONCRETE SIDEWALK PAVING – TYP., SEE 2/C200.
2. TIE-IN NEW SIDEWALK PAVING INTO EXISTING SIDEWALK PAVEMENT, SEE 3/C200.
3. LIGHT-DUTY CONCRETE PAVING, SEE 4/C200.
4. HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
5. SUPER HEAVY-DUTY CONCRETE PAVING, SEE 4/C200.
6. PERMEABLE PAVING – TRUEGRID PRO-PLUS HEAVY DUTY PAVERS, WITH PARKING DELINEATORS. SEE C201.
7. CONCRETE VERTICAL CURB, SEE 4/C200.
8. PARKING STRIPING – TYP., SEE 5/C201.

PAVING PLAN LEGEND

- PORTLAND CEMENT CONCRETE SIDEWALK – 4" THK. SEE 2/C200.
- TRUEGRID PAVERS – PARKING SEE 1/C201 AND/OR 2/C201.
- PORTLAND CEMENT CONCRETE ADA PARKING – 6" THK. SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DUMPSTER PAD – 10" THK., SEE 4/C200.
- HEAVY DUTY PORTLAND CEMENT CONCRETE DRIVEWAY AND ENTRANCE – 8" THK. SEE 4/C200.
- DETECTABLE WARNING SURFACE. SEE .

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C100 SITE AND PAVING PLAN
1"=20'

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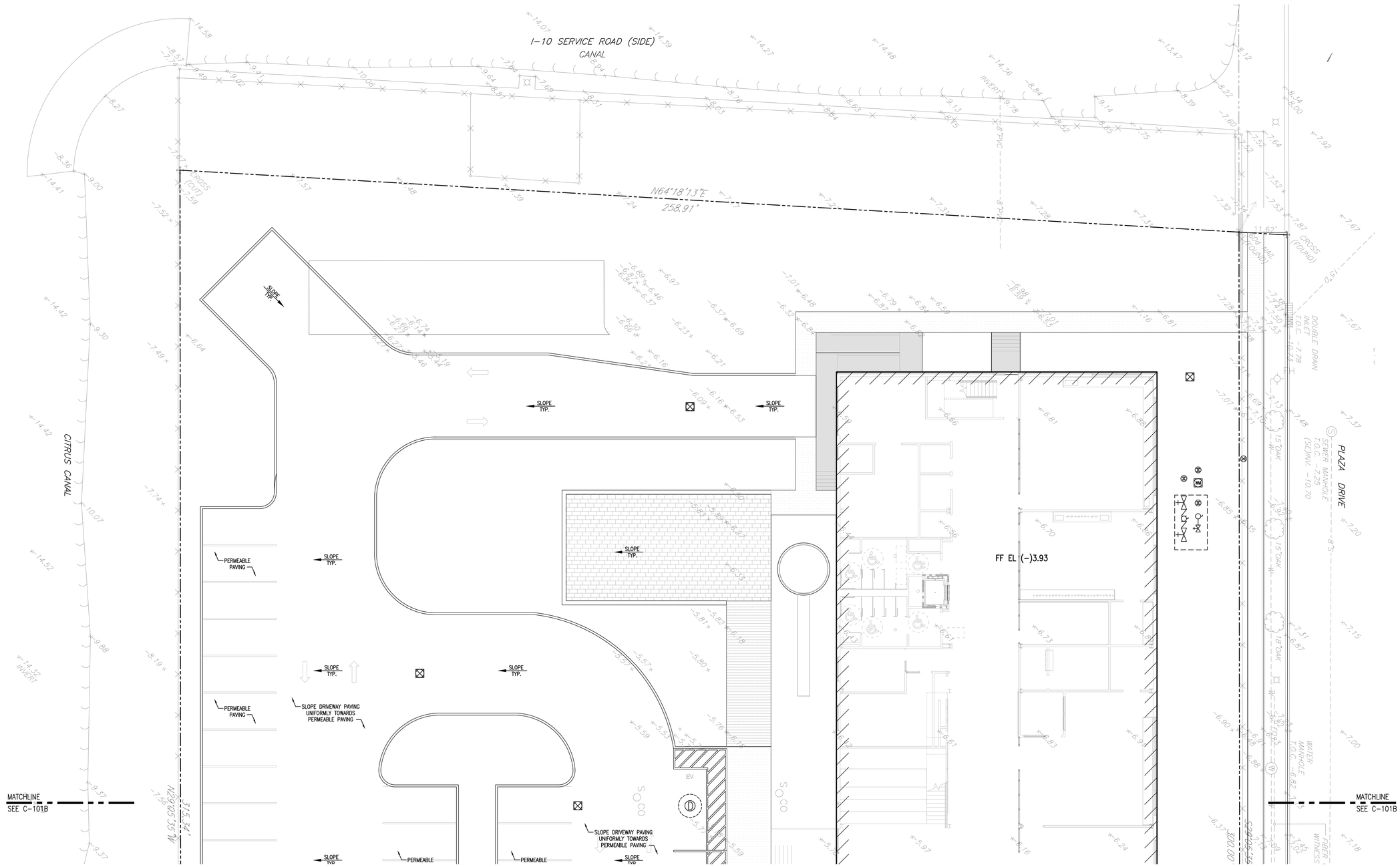
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SHEET NAME
SITE AND PAVING PLAN

SHEET NO. C100



PLAN NOTES: UNLESS NOTED OTHERWISE:

1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 / C101A PART. GRADING PLAN
1"=10'

GRADING PLAN NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5"-0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. ADA CURB RAMP SLOPE SHALL NOT EXCEED 1(V):12(H) OR 8.33% MAX. SLOPE.
12. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
13. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
14. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
15. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
16. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

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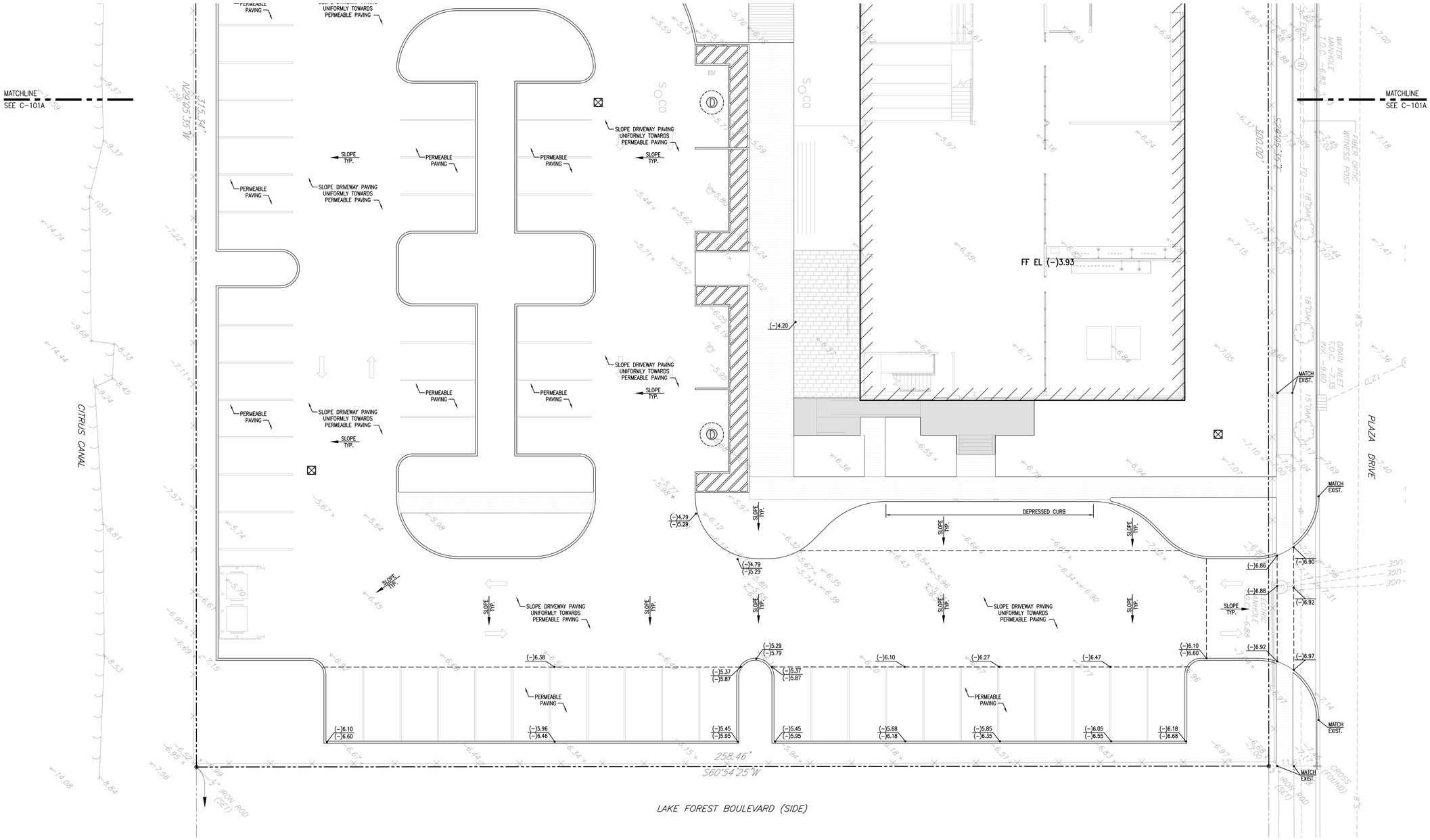
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SHEET NAME

PART. GRADING PLAN

SHEET NO. C101A



PLAN NOTES: UNLESS NOTED OTHERWISE:

1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

10 5 0 10 20
SCALE: 1" = 10'

1 C101B PART. GRADING PLAN 1"=10'

GRADING PLAN NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY A/E IMMEDIATELY IF ANY GRADE CONFLICT IS ENCOUNTERED WHEN MATCHING OR TIE-INTO EXISTING GRADES.
2. CONTRACTOR SHALL NOTIFY A/E IMMEDIATELY IF ANY CONFLICT OR DISCREPANCY IS IDENTIFIED WITH NEW FINISHED GRADES.
3. PAVEMENT AND SIDEWALK RUNNING SLOPE AND CROSS SLOPE SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN AND DPW STANDARDS. RUNNING SLOPE NOT TO EXCEED 1 IN 20 (5%) AND CROSS SLOPE NOT TO EXCEED 1 IN 50 (2%).
4. PAVEMENT SLOPE OF HANDICAP PARKING SPACES SHALL NOT EXCEED 2% IN ALL DIRECTIONS AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. PAVEMENT SLOPE OF ALL ADA ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE MINIMUM OF 5' LANDING AT THE DOORS, ADA CURB RAMPS AND PEDESTRIAN FENCE GATES IN ACCORDANCE WITH ADA REQUIREMENTS. SLOPE FOR LANDING SHALL BE IN COMPLIANCE WITH ADA STANDARDS FOR ACCESSIBLE DESIGN. SLOPE NOT TO EXCEED 1 IN 50 (2%) IN ALL DIRECTIONS.
7. SLOPE PAVING UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON PLANS. ENSURE POSITIVE SLOPE AND DRAINAGE IS MAINTAINED. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES.
8. HEIGHT OF CURB VARIES.
9. DEPRESSED CURB FLUSH/LEVEL WITH PARKING PAVING.
10. PROVIDE 5'–0" TRANSITION FROM VERTICAL CURB (HEIGHT VARIES) TO ZERO (0") CURB WHERE CURB MEETS SIDEWALK PAVING IN THE RIGHT-OF-WAY.
11. ADA CURB RAMP SLOPE SHALL NOT EXCEED 1(V):12(H) OR 8.33% MAX. SLOPE.
12. CUT-IN SWALE. REGRADE GRASSY AREA UNIFORMLY TOWARDS SWALE.
13. RE-GRADE AND SLOPE OPEN AREA TO MATCH EXISTING GRADE. SLOPE UNIFORMLY (CONSISTENT SLOPE) – 4(H):1(V) MAX. SLOPE.
14. CASTING OR GRATE ELEVATION OF ALL EXISTING STRUCTURES INVOLVED IN THE SCOPE OF CIVIL WORK TO BE FIELD ADJUSTED, TOP CASTING SHALL BE FLUSHED WITH NEW PAVING OR FINISHED GRADE OF GRASSY AREAS.
15. STREET REPAIRS AND NEW PAVING IN THE RIGHT-OF-WAY SHALL BE IN COMPLIANCE AND REQUIREMENTS WITH CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
16. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.

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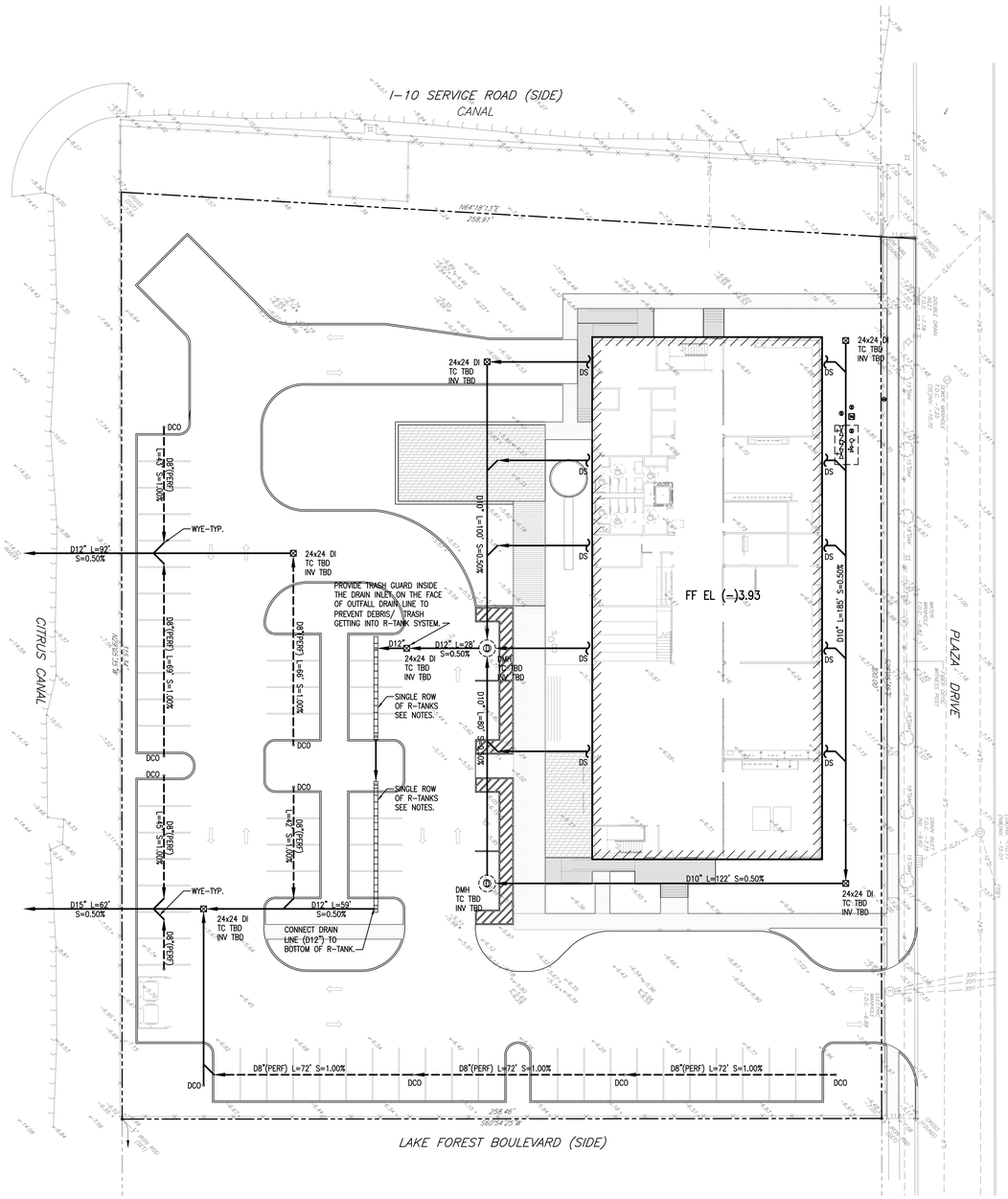
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SHEET NAME
PART. GRADING PLAN

SHEET NO. C101B



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C102 DRAINAGE PLAN 1"=20'

DRAINAGE PLAN NOTES:
1. PROVIDE DRAINAGE STRUCTURES AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE LATEST STANDARDS OF CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD AND/OR THE LOUISIANA DOTD.
2. DIRECT DRAINAGE OF ALL PAVEMENT UNIFORMLY TOWARDS PERMEABLE PAVING AS NOTED ON DRAWINGS. NOTIFY A/E IF ANY DISCREPANCY WITH FINISHED GRADES TO ENSURE POSITIVE FLOW AND DRAINAGE IS MAINTAINED.
3. ALL NEW DRAIN PIPES SHALL BE A-2000PVC CONFORMING TO THE REQUIREMENTS OF ASTM F949 UNLESS NOTED OTHERWISE. DRAIN PIPE FITTINGS SHALL CONFORM TO ASTM F949 PER MANUFACTURERS REQUIREMENTS. ALL JOINTS SHALL BE MADE WITH INTEGRALLY-FORMED BELL AND SPIGOT GASKETED CONNECTIONS. ELASTOMETRIC SEALS (GASKETS) SHALL CONFORM TO ASTM F477.
4. PERFORATED DRAIN PIPE SHALL BE A-2000PVC BY CONTECH CONSTRUCTION PRODUCTS INC., CONFORMING TO ASTM F949. PERFORATION DIMENSTIONS SHALL BE IN ACCORDANCE WITH ASTM F949 TABLE 5 AND SECTION 7.9.
5. ALL INLET CONNECTION AT PIPE INTERFACES SHALL BE GROUTED WITH NON-SHRINK GROUT FOR AN AIR-TIGHT SEAL.
6. SHAPE BOTTOM OF DRAIN INLET, DRAIN MANHOLE STRUCTURES WITH GROUT TO ENSURE POSITIVE FLOW. STANDING WATER INSIDE THE DRAIN INLET OR MANHOLE IS UNACCEPTABLE -TYP.
7. PROVIDE DRAIN INLET FILTER OR INLET SKIMMER BASKETS (BY FABCO OR APPROVED EQUAL) IN ALL DRAIN INLETS.
8. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL CLEAN ALL (EXISTING AND NEW) CATCH BASINS, DRAIN INLETS, AND DRAIN PIPES TO MAINTAIN POSITIVE DRAINAGE AND RESTORE SERVICES.
9. CONTRACTOR SHALL SUBMIT COPIES OF ALL TESTING REPORTS TO A/E.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL DRAINAGE STRUCTURES, FITTINGS, DRAIN PIPES TO A/E FOR APPROVAL BEFORE ORDERING MATERIAL.
11. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF ALL EXISTING DRAIN LINES PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW DRAIN LINE AND INVERT ELEVATION OF EXISTING DRAIN.
12. CONTRACTOR SHALL VERIFY LOCATION (HORIZONTAL AND VERTICAL, WHEREVER POSSIBLE) OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL TAKE EXTREME PRECAUTIONS WHEN WORKING IN THE VICINITY OF EXISTING/NEW GAS, FIBER OPTICS, ELECTRICITY, UNDERGROUND DUCT BANKS, ETC. SO AS NOT TO CAUSE DAMAGE.
13. NOTIFY A/E IMMEDIATELY IF GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW DRAIN LINE AND STRUCTURAL FOUNDATION & UNDERGROUND UTILITIES (SANITARY SEWER, DOMESTIC AND FIRE WATER, GAS, ETC.)
14. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW DRAIN LINE.

MAINTENANCE OF PERMEABLE PAVING (PERVIOUS CONCRETE):
SOME KEY ACTIONS HELP ENSURE THE LONG-TERM PERFORMANCE OF PERMEABLE PAVEMENT DURING ITS OPERATION LIFE. THE MOST FREQUENTLY CITED MAINTENANCE PROBLEM IS SURFACE CLOGGING CAUSED BY ORGANIC MATTER AND SEDIMENT, WHICH CAN BE REDUCED BY THE FOLLOWING MEASURES:
1. ROUTINE MAINTENANCE: REGULAR DRY-SWEEPING TO REMOVE SEDIMENT PARTICLES BEFORE THEY CAN INFILTRATE DEEPLY INTO THE PERVIOUS CONCRETE.
2. PERIODIC VACUUMING: USE A VACUUM SWEEPER AT LEAST TWICE PER YEAR TO REMOVE SEDIMENT AND DEBRIS.
3. REMOVE LEAVES FROM SURFACE DURING THE FALL. MANUALLY REMOVE WEEDS AND VEGETATION GROWING IN THE POROUS SURFACE.
4. TRY A MORE POWERFUL VACUUM OR PRESSURE WASHING IF POROUS SURFACE STILL NOT DRAINING WATER.

ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECTED TO INFILTRATION TESTING. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

MAINTENANCE FOR LANDSCAPE AREAS:
1. LAWN MOWING SHOULD BE PERFORMED ROUTINELY, AS NEEDED, THROUGHOUT THE GROWING SEASON. GRASS HEIGHT SHOULD BE MAINTAINED ADEQUATELY. GRASS CUTTINGS SHOULD BE COLLECTED AND DISPOSED OFFSITE, OR A MULCHING, MOWER CAN BE USED. PRECAUTIONS SHALL BE TAKEN TO ENSURE GRASS CUTTINGS DO NOT MIGRATE TO ADJACENT PERMEABLE PAVING. REGULAR MOWING SHOULD ALSO INCLUDE WEED CONTROL PRACTICES; HOWEVER, HERBICIDE USE SHOULD BE KEPT TO A MINIMUM.
2. AESTHETIC MAINTENANCE OF LANDSCAPE AREAS OFTEN CONSISTS OF WEEDING, TRASH REMOVAL, CLIPPING AND PRUNING VEGETATION, AND MULCH REPLACEMENT.
3. ROUTINE INSPECTION OF LANDSCAPE AREAS TO IDENTIFY ANY AREAS OF OBVIOUS INCREASED SEDIMENT DEPOSITION, SCOURING AND EROSION FROM STORM FLOWS, DAMAGE TO THE PROFILE.
4. REMOVAL OF SEDIMENT WHERE IT IS SMOTHERING THE LANDSCAPE BEDS.
5. REPAIRING ANY DAMAGE TO THE PROFILE RESULTING FROM SCOUR, RILL EROSION BY REPLACEMENT OF APPROPRIATE FILL (TO MATCH ON-SITE SOILS) AND REVEGETATING.
6. TILLING OF THE SURFACE, OR REMOVAL OF THE SURFACE LAYER, IF THERE IS EVIDENCE OF CLOGGING.
7. REGULAR WATERING / IRRIGATION OF VEGETATION UNTIL PLANTS ARE ESTABLISHED AND ACTIVELY GROWING.
8. REMOVAL OF PLANTS THAT HAVE DIED AND REPLACEMENT WITH PLANTS OF EQUIVALENT SIZE AND SPECIES.
9. VEGETATION PEST MONITORING AND CONTROL.

STORMWATER MANAGEMENT PLAN – PERMEABLE PAVING TESTING:
ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECT TO INFILTRATION TESTING AFTER INSTALLATION. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1701 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.

STORMWATER MANAGEMENT PLAN – SWPPP NOTE:
1. PURSUANT TO BUILDING CODE SECTION 121.13(E); PRIOR TO RELEASE FOR CONSTRUCTION THE CONTRACTOR SHALL EXECUTE THE CONSTRUCTION SWPPP SUBMITTED WITH APPLICATION AND IN COMPLIANCE WITH BUILDING CODE SECTION 121.5 AND 121.6 AND MODELED ON DPW STANDARD SPECIFICATION SECTION C204. INCLUDE CONTACT INFORMATION [NAME, PHONE, EMAIL] FOR THE ON-SITE PERSON OR PERSONS TO BE CONTACTED IN THE EVENT OF A VIOLATION OR COMPLAINT
2. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ON-SITE, WHICH DESCRIBES IN DETAIL THE CONTRACTORS RESPONSIBILITY TO PREVENT CONTAMINATION OF THE STORMWATER COLLECTION SYSTEM. CONTRACTOR SHALL IMPLEMENT, MAINTAIN, INSPECT ALL EROSION AND SEDIMENT CONTROLS IDENTIFIED IN THE SWPPP. THE PROGRAM SHALL COVER ALL CONSTRUCTION ACTIVITIES AND EXTRAORDINARY EVENTS.

STORMWATER MANAGEMENT PLAN – ACKNOWLEDGEMENT NOTE:
PURSUANT TO BUILDING CODE SECTION 121.17; PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, POST-CONSTRUCTION CERTIFICATION INCLUDING AS-BUILT DRAWINGS, AFFIDAVIT FROM DESIGNER/S, AND PERFORMANCE BOND (BY OWNER), BASED UPON THE ACTUAL COST OF CONSTRUCTION MUST BE SUBMITTED FOR APPROVAL. AFTER FINAL INSPECTION THESE DOCUMENTS MUST BE RECORDED WITH THE CIVIL DISTRICT CLERK COURT. THIS TAKES TIME AND MONEY.

PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

MORPHY MAKOFSKY INCORPORATED
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STEM NOLA
SPECIALIZED STEM EXPLORATION
MULTI-PURPOSE BUILDING

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SCHEMATIC DESIGN

DRAWING ISSUE

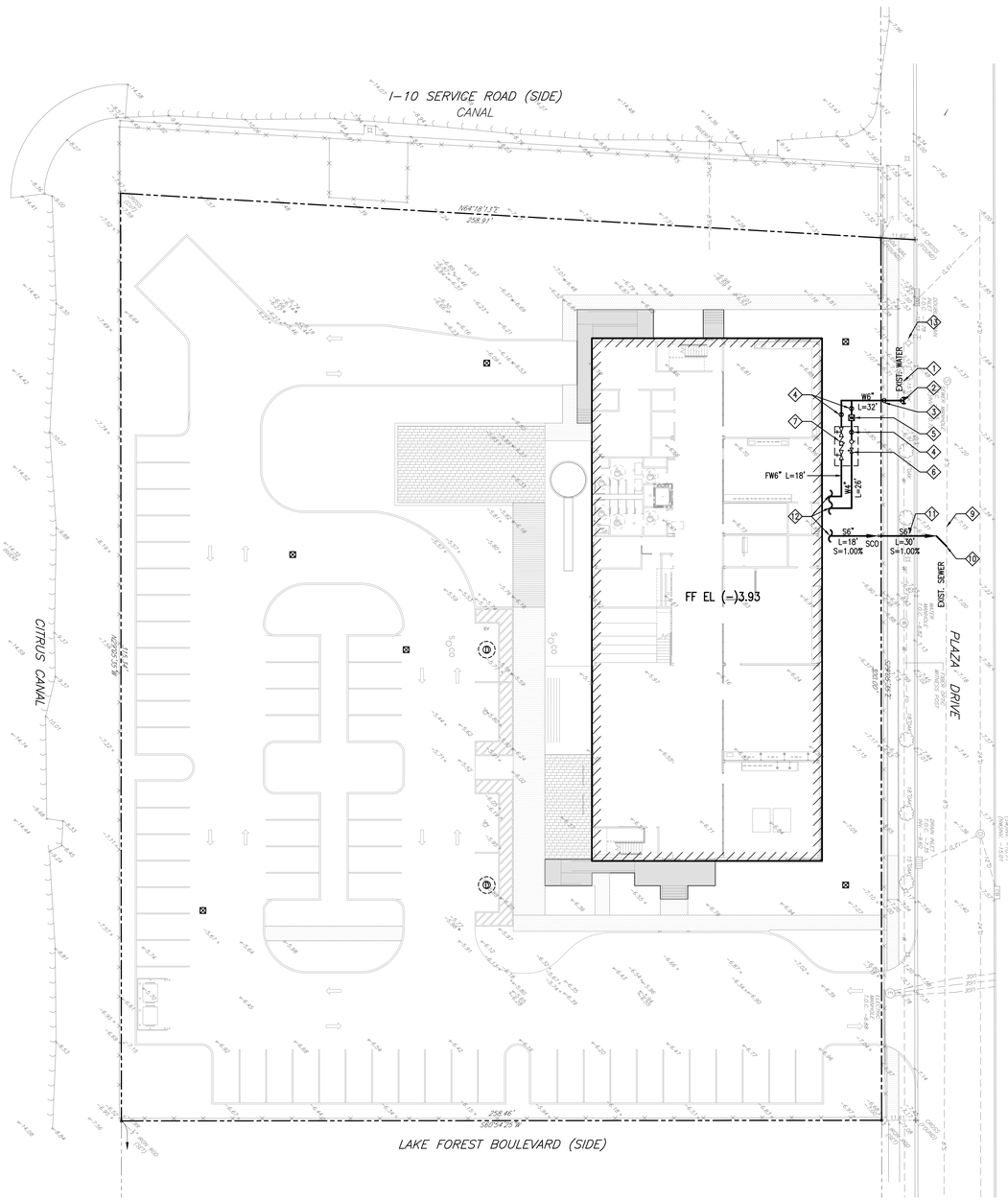
DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

WDG Project No: 24002

SHEET NAME
DRAINAGE PLAN

SHEET NO. C102



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. ▨ – INDICATES THE BUILDING EXTENTS, TO BE COORDINATED WITH ARCH.
2. ▭ – INDICATES THE STRUCTURAL FOUNDATION EXTENTS, TO BE COORDINATED WITH STRUCTURAL PLANS.

20 10 5 0 10 20 30 40
SCALE: 1" = 20'

1 / C103 UTILITIES PLAN
1"=20'

SANITARY SEWER NOTES:
1. MATERIAL FOR SANITARY SEWER PIPE SHALL BE SOLD WALL PVC PIPE, MANUFACTURED IN ACCORDANCE WITH ASTM D-3034 SPECIFICATIONS AND TO A SDR (STRENGTH DIMENSION RATIO) OF 26 WITH ELASTOMERIC GASKETS. THE ELASTOMERIC GASKETS AND RETAINER RINGS SHALL BE INSTALLED BY THE MANUFACTURER IN ACCORDANCE WITH ASTM D-3212 AND F-477. THE FITTINGS FOR SOLID WALL PVC PIPE SHALL BE THE SAME INSIDE DIAMETER AS THE SOLID WALL PVC WITH AN SDR OF 35.
2. ALL NEW SANITARY SEWER SERVICES SHALL HAVE A MINIMUM OF 3 FEET COVER (FROM TOP OF PIPE TO FINISH GRADE OF PAVING OR GRASSY AREA).
3. MAINTAIN MINIMUM 12" VERTICAL CLEARANCE BETWEEN NEW SANITARY SEWER AND WATER/DRAIN/ANY OTHER UNDERGROUND UTILITIES WHERE UTILITIES ARE CROSSING (WITH NEW SANITARY SEWER BELOW).
4. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF EXISTING SANITARY SEWER MAIN AT THE POINT OF CONNECTION PRIOR TO MAKING ANY CONNECTIONS/INSTALLATIONS. NOTIFY A/E IMMEDIATELY IF ANY CONFLICT IS ENCOUNTERED BETWEEN FLOW LINE INV. ELEVATION OF NEW SANITARY SEWER AND INVERT ELEVATION OF EXISTING SEWER LINE.
5. CONTRACTOR SHALL NOTIFY A/E IF ANY GRADE CONFLICT IS ENCOUNTERED BETWEEN NEW SANITARY SEWER LINE WITH EXISTING DRAIN, WATER, GAS LINES AND ANY OTHER UNDERGROUND UTILITIES.
6. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITIES COMPANY PRIOR TO OFFSETTING EXISTING UTILITIES IF ANY GRADE/INVERT CONFLICT IS ENCOUNTERED WITH NEW SANITARY SEWER LINE.
7. SANITARY SEWER PIPE SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE ATTACHED TO THE PIPE @ 10' MAXIMUM.
8. SEE SPECIFICATIONS FOR SANITARY SEWER

DOMESTIC WATER AND FIRE WATER:
1. FIRE WATER LINE SHALL BE SOLID WALL DR 18 PVC PIPE MANUFACTURED IN ACCORDANCE WITH AWWA STANDARD C900 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE AND FABRICATED FITTINGS FOR WATER DISTRIBUTION.
2. FOR PVC WATER LINES, ALL PIPE FITTING SHALL BE DUCTILE IRON. ALL NUTS, BOLTS AND WASHERS, ETC. SHALL BE MANUFACTURED OF STAINLESS STEEL.
3. ALL POTABLE WATER PIPE AND FITTINGS (3" AND LESS) SHALL CONFORM TO POLYVINYL CHLORIDE (PVC) PIPE IN ACCORDANCE WITH ASTM D-1785, UNLESS NOTED OTHERWISE. POLYETHYLENE PLASTIC PIPE AND TUBING (PE), IF USED, SHALL CONFORM TO AWWA C901/C906, ASTM D2239, ASTM D2737, ASTM D3035, ASTM F417, CELL CLASS PER ASTM D3350, PPI LISTED MATERIAL (TR-4) PE 4710, AND ANSI/NSF-14.
4. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) FOR FIREWATER LINE SHALL BE SERIES 757DCDAOSY DOUBLE CHECK DETECTOR ASSEMBLY BY WATTS.
5. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PRVENTER FOR NEW DOMESTIC WATER SERVICE SHALL BE LEAD FREE, SERIES 9570SY REDUCED PRESSURE ZONE ASSEMBLY BY WATTS.
6. NEW DOMESTIC WATER AND FIRE WATER LINES SHALL HAVE A MINIMUM OF 3 FEET OF COVER FROM TOP OF PIPE TO FINISH GRADE OF PAVING.
7. WATER LINES SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC. THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY. HOWVER, IT IS CONTRACTORS RESPONSIBILITY TO SUPPLY EACH AND EVERY SUCH ITEM TO PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
8. PROVIDE METER VAULT, VALVES, REDUCED PRESSURE BACKFLOW PREVENTER AND OTHER FIXTURES AND STRUCTURES CONFORMING TO THE STANDARDS OF THE S&WB. COORDINATE INSTALLATION OF METER AND METER VAULT WITH S&WB.
9. PROVIDE POTABLE WATER CONNECTIONS FROM MAIN TO METER AND FROM METER TO BUILDING IN ACCORDANCE WITH THE STANDARDS OF THE S&WB.
10. FLUSH AND DISINFECT NEW WATER LINES AND AFFECTED PORTIONS OF EXISTING WATER LINES IN ACCORDANCE WITH AWWA C601 AND THE S&WB STANDARDS.
11. PROVIDE CONCRETE THRUST BLOCKS AND/OR MECHANICAL RESTRAINTS AT TEES, ELBOWS, AND OTHER CHANGES IN DIRECTION.
12. DOMESTIC WATER AND FIRE WATER PIPES SHALL HAVE 6" WIDE CONTINUOUS METALLIC DETECTABLE WARNING TAPE INSTALLED 12" ABOVE THE PIPE.
13. SEE WATER DISTRIBUTION SPECIFICATIONS.

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) AND REDUCED PRESSURE ZONE (RPZ) ASSEMBLY :
1. DCDA BACKFLOW PREVENTER SHALL BE EQUIPPED WITH TAMPER SWITCH AS REQUIRED BY FIRE MARSHALL GOVERNING AGENCY.
2. PROVIDE VANDALISM AND TAMPER PROTECTION FOR DCDA (FIRE WATER) AND RPZ BACKFLOW PREVENTER ASSEMBLY (DOMESTIC WATER).
3. ALL ABOVE GROUND PIPES AND FITTINGS OF DCDA AND RPZ BACKFLOW PREVENTER SHALL BE INSULATED FOR FREEZE PROTECTION IN ACCORDANCE WITH CITY OF NEW ORLEANS S&WB REQUIREMENTS.
4. FOUNDATION SLAB FOR DCDA AND RPZ BACKFLOW PREVENTER SHALL BE 4,000 PSI CONCRETE, 6" THICK, REINFORCED WITH #4 @ 12" O.C EACH WAY. FOUNDATION SLAB TO BE SUPPORTED ON SIX (6) INCHES OF SELECT FILL (RIVER SAND), COMPACTED TO 95% OF ITS MAX DRY DENSITY WITH GEOTEXTILE FABRIC (MIRAFI 600X) UNDERNEATH IT.
5. FOUNDATION SLAB DIMENSION SHALL BE MINIMUM 4'(W) x (LENGTH OF BFP +1' EACH SIDE)

SEWERAGE & WATER BOARD NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH S&WB SPECIFICATIONS AND STANDARD DRAWINGS.
2. CONTRACTOR SHALL CONTACT THE S&WB A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION TO ARRANGE FOR INSPECTION.
3. CONTRACTOR SHALL PROVIDE THE FOLLOWING TO THE S&WB BEFORE BEGINNING CONSTRUCTION:
   A. PROOF OF LOUISIANA MUNICIPAL AND PUBLIC WORKS CONTRACTORS LICENSE.
   B. DEPARTMENT OF PUBLIC WORKS STREET CUT PERMIT.
   C. PROOF OF INSURANCE INDEMNIFYING THE S&WB IN THE AMOUNT OF AT LEAST $5,000,000.00.
4. ANY WORK WITHIN PRIVATE PROPERTY MUST BE REVIEWED AND APPROVED BY THE S&WB PLUMBING DEPARTMENT IN ADVANCE OF CONSTRUCTION. A LICENSED MASTER PLUMBER MUST CONTACT THE PLUMBING DEPARTMENT TO VERIFY COMPLIANCE WITH ALL APPLICABLE GOVERNING REGULATIONS. OBTAINING THE SIGNATURE OF A REPRESENTATIVE OF S&WB ENGINEERING DOES NOT RELIEVE THE PLUMBER OF THIS OBLIGATION.
5. THE METER SHALL BE INSTALLED AS RECEIVED FROM THE S&WB AND MAY NOT BE MODIFIED IN ANY MANNER. ANY MODIFICATION WILL VOID THE WARRANTY AND, AS SUCH, MAY SUBJECT THE OWNER TO FINANCIAL PENALTY AND LOSS OF SERVICE.
6. WATER METERS MAY OR MAY NOT BE IMMEDIATELY AVAILABLE THEREFORE CONTRACTORS SHALL PAY ALL REQUIRED S&WB FEES REQUIRED TO OBTAIN A WATER METER AT LEAST SIX MONTHS PRIOR TO THE DATE THE WATER METER IS REQUIRED TO BE INSTALLED.

UTILITIES PLAN KEY NOTES:

1. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. WATER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
2. CONNECT NEW DOMESTIC WATER AND FIRE WATER LINE TO EXIST. WATER MAIN WITH DUCTILE IRON TEE OR TAPPING SLEEVE AND VALVE CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS.
3. 6" ROTATING/ROLLING DISC WOODS GATE VALVE WITH MECHANICAL JOINT END CONNECTIONS, COMPLYING WITH AWWA C-500, NSF-61 APPROVED, IN WATER MANHOLE OR VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS.
4. ISOLATION GATE VALVE IN VALVE BOX PER S&WB DWG. NO. 6179-F-2 AND CONFORMING TO S&WB OF NEW ORLEANS REQUIREMENTS.
5. S&WB SUPPLIED WATER METER FOR DOMESTIC WATER.
6. REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER FOR DOMESTIC WATER PER S&WB DWG. NO. 8353-W3
7. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER FOR FIRE WATER WITH S&WB BY-PASS METER PER S&WB DWG. NO. 8353-W2.
8. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND DEPTH OF EXIST. SANITARY SEWER MAIN IN THE FIELD. NOTIFY A/E IMMEDIATELY IF DISCREPANCY IS ENCOUNTERED IN FIELD CONDITIONS.
9. CONNECT NEW SANITARY SEWER LINE (S6") TO EXIST. SANITARY SEWER LINE WITH WYE CONNECTION. WYE SHALL BE INSTALLED IN THE DIRECTION/ SLOPE OF EXIST. SEWER LINE.
10. NEW SANITARY SEWER LINE SHALL BE INSTALLED UNDERNEATH EXIST. WATER MAIN. MAINTAIN MIN. 18" VERTICAL CLEARANCE BETWEEN TOP OF SEWER PIPE AND BOTTOM OF WATER LINE.
11. SEE PLUMB. FOR CONT. – TYP.
12. EXIST. FIRE HYDRANT. FIRE DEPARTMENT CONNECTION (FDC) FOR THE NEW BUILDING SHALL BE WITHIN 100 FEET, HOSE LENGTH, TO THE EXISTING FIRE HYDRANT.

UTILITIES PLAN LEGEND

S6" L=25' S=1.00% ▶	NEW SEWER, SIZE, LENGTH, SLOPE
W4" L=25'	NEW DOMESTIC WATER, SIZE, MATERIAL, LENGTH
FW6" DI L=25'	NEW FIRE WATER, SIZE, MATERIAL, LENGTH
⊗	NEW GATE VALVE
⊸Q	NEW REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER
⊓Q⊓	NEW DOUBLE CHECK DETECTOR ASSEMBLY (DCDA) BACKFLOW PREVENTER
○SCO	NEW SEWER CLEANOUT, SEE 5/C2.2

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SCHEMATIC DESIGN

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REVISIONS

PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

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JOB NO. 25001

WDG Project No: 24002

SHEET NAME
UTILITIES PLAN

SHEET NO. C103

1 C200 GENERAL NOTES

CIVIL GENERAL NOTES:
1. DIMENSIONS AND CONDITIONS TYING INTO OR GOVERNED BY EXISTING CONSTRUCTION ARE APPROXIMATE AND ARE NOT PURPORTED TO BE PRECISE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL SURFACE AND SUBSURFACE STRUCTURES, UTILITIES, DEPTHS AND INVERTS PRIOR TO COMMENCING WORK. NOTIFY THE A/E IF CONDITIONS VARY FROM THOSE SHOWN.
2. CONTRACTOR SHALL VERIFY BUILDING AND SIDEWALK LAYOUT WITH ARCHITECT PRIOR TO FORMING BUILDING, SIDEWALKS
3. ELEVATIONS ARE IN FEET. SEE SURVEY FOR ELEVATION DATUM AND REFERENCE BENCH MARK.
4. OBTAIN AND PAY FOR INSPECTIONS, LICENSES, PERMITS AND APPROVALS REQUIRED BY GOVERNING AUTHORITIES AND INSTALL ALL WORK IN COMPLIANCE THERE WITH.
5. DRAIN, SEWER AND WATER LINES ARE SHOWN IN SCHEMATIC DETAIL ONLY. EVERY OFFSET, ELBOW, TEE, WYE, ETC., THAT MAY BE REQUIRED ARE NOT SHOWN FOR CLARITY, HOWEVER, CONTRACTOR SHALL SUPPLY EACH AND EVERY SUCH ITEM AS IF SHOWN. PROVIDE COMPLETE WORKING UTILITY SYSTEMS.
6. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR CONTINUATION OF UTILITIES WITHIN BUILDINGS.
6. WHERE NOTED, REFERENCED STANDARD SPECIFICATION SHALL BE THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND/OR THE NEW ORLEANS SEWERAGE AND WATER BOARD (S&WB) STANDARD SPECIFICATIONS, LATEST EDITION, OR THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, WHICHEVER IS THE MORE STRINGENT.
7. ANY UTILITY LINE OR SERVICE LINE ENCOUNTERED DURING CONSTRUCTION, WHETHER OR NOT SHOWN ON THE CONSTRUCTION PLANS, SHALL BE PROTECTED BY THE CONTRACTOR AND ANY REPAIRS NECESSARY DUE TO DAMAGE TO SAME BY THE CONTRACTOR SHALL BE AT NO ADDITIONAL COST TO THE OWNER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ACTUAL LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES ON THE PROJECT SITE. LOCATIONS OF EXISTING UTILITIES AND STRUCTURES INDICATED ON DRAWINGS APPROXIMATE ONLY, AND THOSE INDICATED ARE NOT NECESSARILY ALL THAT MAY EXIST ON THE PROJECT SITE. THE CONTRACTOR SHALL VERIFY THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES (POWER, TELEPHONE, GAS, WATER, SEWER, ETC.) WITH THE APPROPRIATE UTILITY COMPANY BEFORE CONSTRUCTION BEGINS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICITY, SEWER, AND WATER TIE-INS, CONNECTIONS AND DISCONNECTIONS) WITH THE APPROPRIATE UTILITY PROVIDER AT NO COST OF THE OWNER.
10. ALL EXISTING AND NEW UTILITY STRUCTURES – SANITARY SEWER MANHOLE TOPS, WATER VALVES BOXES, METERS, STORM SEWERS, OR OTHER RELATED APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE BY CONTRACTOR AS AN ABSORBED COST OF WORK.
11. PROVIDE CONSTRUCTION ZONE TRAFFIC CONTROL PER LOUISIANA DOTD STANDARD PLANS.
12. PROVIDE DETECTABLE WARNING SURFACE WHERE PEDESTRIAN AND VEHICULAR AREAS ARE NOT OTHERWISE SEPARATED BY A CURB, RAILING OR OTHER STRUCTURAL ELEMENT. DETECTABLE WARNING SURFACE SHALL BE A MINIMUM 36 INCHES WIDE AND SHALL BE CONTINUOUS BETWEEN PEDESTRIAN AND VEHICULAR AREAS.
13. DETECTABLE WARNING SURFACE SHALL CONSIST OF RAISED TRUNCATED DOMES, 0.9 INCHES IN NOMINAL DIAMETER, 0.2 INCHES IN NOMINAL HEIGHT, CENTERED 2.35 INCHES APART.
14. CONTRACTOR SHALL ENSURE THAT ALL NATURAL DRAINAGE ROUTES ARE MAINTAINED AND PRESERVED THROUGHOUT THE COURSE OF PROJECT.
15. THE CONTRACTOR SHALL PROVIDE, ACCURATE AS-BUILTS DRAWINGS UPON SUBSTANTIAL COMPLETION OF THE PROJECT.

DRAINAGE:
SEE SPECIFICATIONS FOR STORM DRAINAGE (SECTION 334100) AND SHEET C1.2 FOR STORM DRAINAGE NOTES

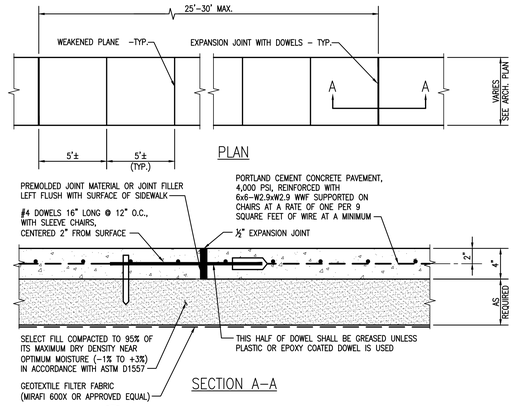
EARTHWORK:
SEE SPECIFICATIONS FOR EARTHWORK (SECTION 312000)

PORTLAND CEMENT CONCRETE PAVING:
1. WHERE NEW PAVING IS TO MEET EXISTING, PROVIDE A SAW CUT TO ENSURE A STRAIGHT JOINT. SAW CUT A MINIMUM 1" DEEP. BREAK THE REMAINDER OF CONCRETE BY CONVENTIONAL MEANS WITHOUT DAMAGING CONCRETE TO REMAIN.
2. PORTLAND CEMENT CONCRETE PAVEMENT SHALL CONFORM TO SECTION 601 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, 2006 EDITION, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
3. FORM WEAKENED PLANES IN SIDEWALK BY A JOINTING TOOL OR OTHER ACCEPTABLE MEANS. SPACE WEAKENED PLANES EQUAL TO THE WIDTH OF THE SIDEWALK. ALIGN EXPANSION JOINTS IN SIDEWALK WITH JOINTS IN CURB.
4. DEFORMED STEEL BARS SHALL BE GRADE 60 AND SHALL CONFORM TO ASTM A615. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. DOWEL BARS SHALL BE PLAIN BARS CONFORMING TO ASTM A615. PAINT FOR DOWEL BARS SHALL CONFORM TO AASHTO DESIGNATION M72.
5. PROVIDE HANDICAPPED RAMPS ACCORDING TO CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS STANDARD PLANS. COORDINATE LOCATION OF RAMPS WITH THE CITY OF NEW ORLEANS DEPARTMENT OF PUBLIC WORKS.
6. SEE SPECIFICATIONS FOR RIGID PAVEMENT (SECTION 321313)

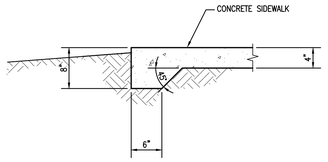
ASPHALT PAVING:
1. ASPHALT MIXTURES, HANDLING, AND INSTALLATION SHALL BE IN ACCORDANCE WITH PART V "ASPHALT PAVEMENTS" OF THE LOUISIANA DOTD STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION.

DOMESTIC WATER AND FIRE WATER:
SEE SPECIFICATIONS FOR WATER DISTRIBUTION AND SHEET C1.3 FOR NOTES

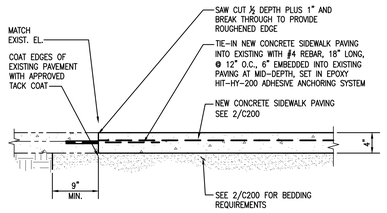
SANITARY SEWER:
SEE SPECIFICATIONS FOR SANITARY SEWERAGE AND SHEET C1.3 FOR NOTES



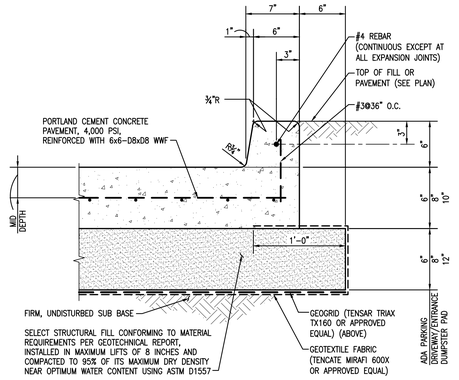
2 C200 DETAIL – PORTLAND CEMENT CONCRETE SIDEWALK PAVEMENT 1–1/2"=1'–0"



2A C200 SECTION – TYPICAL SIDEWALK W/ THICKENED EDGE 1"=1'–0"

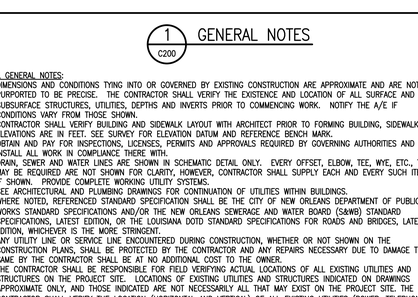


3 C200 DETAIL – NEW CONCRETE SIDEWALK PAVEMENT DOWELED INTO EXISTING N.T.S.



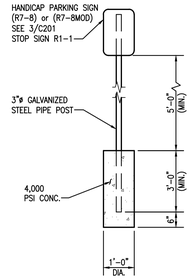
NOTES:
1. PROVIDE JOINTS IN CURB TO MATCH JOINTS IN PAVEMENT.
2. PROVIDE CHAIRS TO SUPPORT WWF AT A RATE OF ONE PER 16 SQUARE FEET OF WIRE AT A MINIMUM.

4 C200 DETAIL – TYPICAL CONCRETE PAVEMENT SECTION W/ CURB N.T.S.

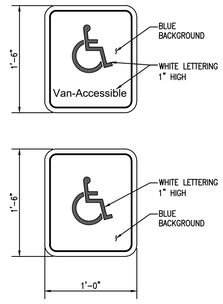


STRIPING NOTES:
1. PARKING STRIPES SHALL BE PAINTED 4" WIDE. DIMENSIONS SHOWN ARE CENTER TO CENTER.
2. PAVEMENT MARKINGS SHALL BE PAINTED WHITE ON ASPHALTIC CONCRETE PAVEMENT AND YELLOW ON PORTLAND CEMENT CONCRETE PAVEMENT.
3. PAVEMENT MARKINGS FOR HANDICAPPED PARKING STALLS SHALL BE PAINTED BLUE. SUBMIT FOR APPROVAL.
4. WHEEL STOPS SHALL BE PAINTED TO MATCH STRIPING.
5. THE CONTRACTOR SHALL USE WATER–BORNE TRAFFIC PAINT, AND SHALL BE IN COMPLIANCE WITH LADOTD SPECIFICATIONS, SECTION 1015.12 TRAFFIC PAINT.
6. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESSIBILITY PAVEMENT MARKINGS AND SIGNS IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES.
7. STRIPING DIMENSIONS SHOWN ABOVE ARE "TYPICAL" DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

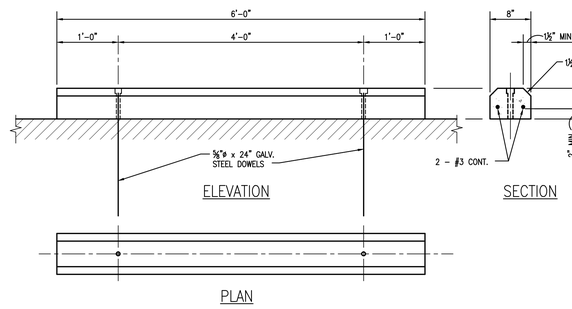
5 C200 DETAIL – STANDARD AND HANDICAP PARKING STRIPING (SCHEMATIC) N.T.S.



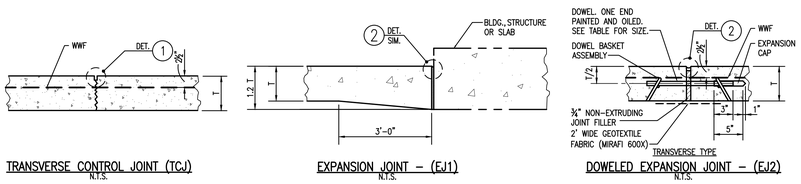
6 C200 DETAIL – SIGN POST FOUNDATION 1/2"=1'–0"



7 C200 DETAIL – HANDICAP SIGNS 1 1/2"=1'–0"



8 C200 DETAIL – PRECAST CONCRETE WHEEL STOP 1"=1'–0"



TRANSVERSE CONTROL JOINT (TCJ) N.T.S.

EXPANSION JOINT – (EJ1) N.T.S.

DOWELED EXPANSION JOINT – (EJ2) N.T.S.

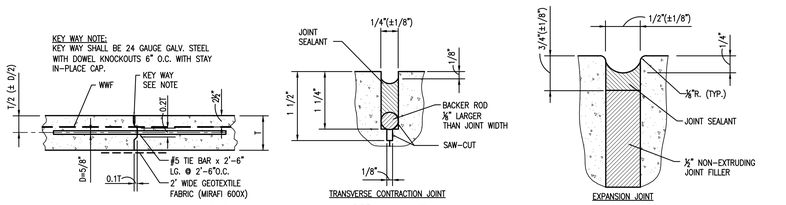
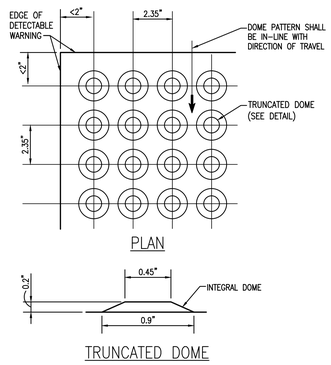


TABLE NO.1 DOWELS (SMOOTH BARS)		
SLAB THICKNESS T (IN.)	BAR DIA. AND LENGTH	AVERAGE SPACING (IN.)
5	3/4"x18"	12
6 TO 7.5	1"x18"	12
8 TO 10	1–1/4"x18"	12

NOTES:
1. TIE BARS SHALL BE DEFORMED BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
2. DOWEL BARS SHALL BE PLAIN (SMOOTH) BARS CONFORMING TO SECTION 1009 OF THE LADOTD STANDARD SPECIFICATIONS.
3. PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
4. JOINT SEALER SHALL BE EITHER POURED OR EXTRUDED TYPE CONFORMING TO SECTION 1005 OF THE LADOTD STANDARD SPECIFICATIONS.
5. CONTRACTOR TO SUBMIT HIS RECOMMENDED JOINTING PLAN FOR REVIEW PRIOR TO PLACING CONCRETE. CONTRACTOR'S RECOMMENDATIONS SHALL BE BASED ON ACI GUIDELINES.
   - PROVIDE DOWELED EXPANSION JOINT EVERY 50' TO 70' MAX. SPACING.
   - PROVIDE ½" PREFORMED, NON–EXTRUDING, RESILIENT BITUMINOUS TYPE EXPANSION JOINT FILLER MATERIAL AT THE INTERFACE OF NEW CONCRETE PAVING AND STRUCTURAL PAVING, BUILDING, ETC.
   - PROVIDE TIED LONGITUDINAL KEYED JOINT EVERY 12' TO 15' MAX. SPACING.
   - PROVIDE TRANSVERSE JOINT EVERY 12' TO 15' MAX. SPACING.

9 C200 DETAILS – CONCRETE PAVEMENT JOINTING N.T.S.



10 C200 DETAIL – DETECTABLE WARNING SURFACE N.T.S.

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STEM NOLA
SPECIALIZED STEM EXPLORATION
MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
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REVISIONS

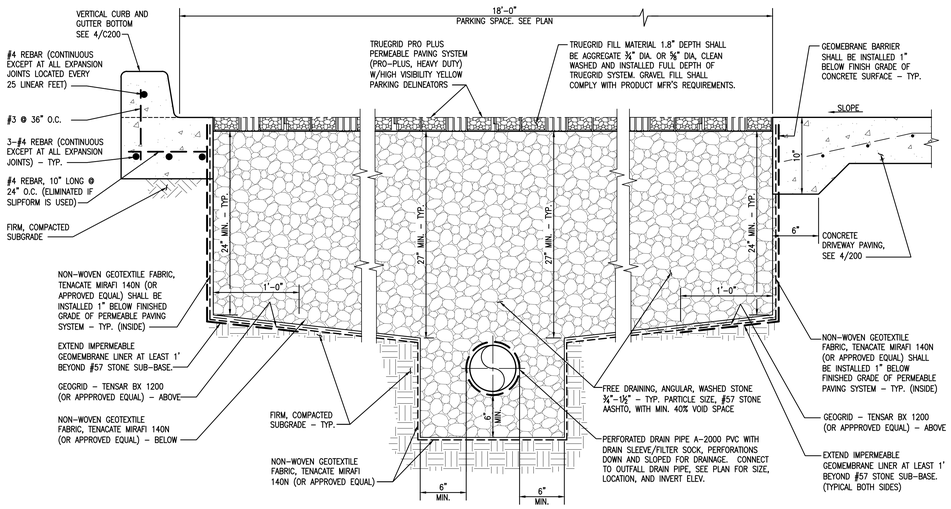
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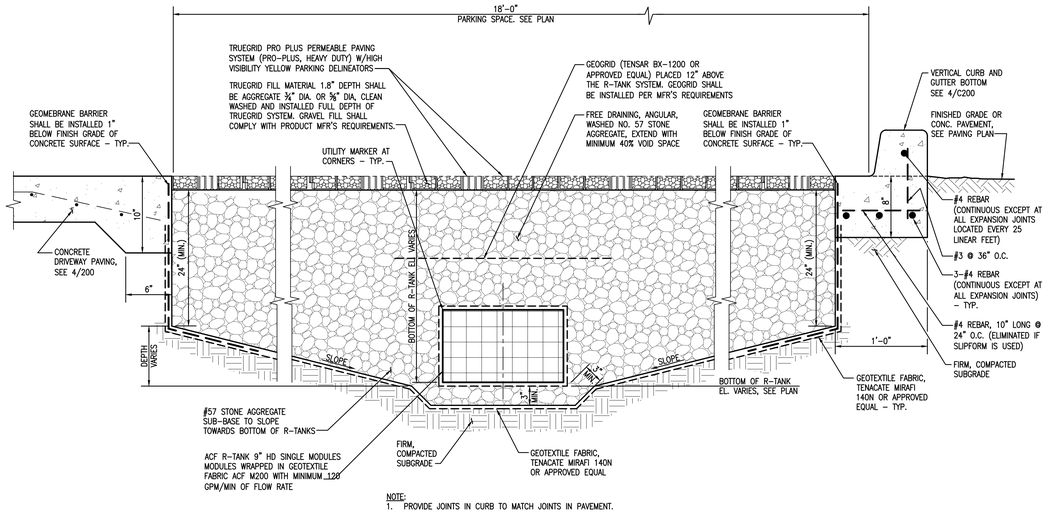
WDG Project No: 24002

SHEET NAME
CIVIL GENERAL NOTES AND DETAILS

SHEET NO. C200

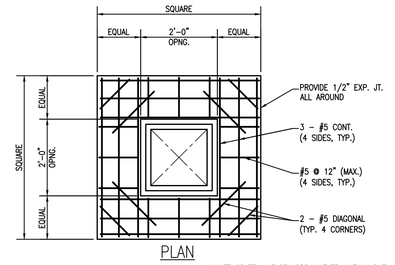


1 C201 SECTION - PERMEABLE PAVING TRUEGRID PAVERS WITH PERFORATED DRAINAGE SYSTEM N.T.S.

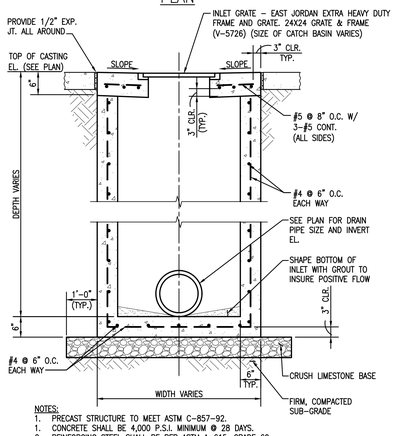


NOTE:
1. PROVIDE JOINTS IN CURB TO MATCH JOINTS IN PAVEMENT.

2 C201 SECTION - TRUGRID PAVERS WITH R-TANK DRAINAGE SYSTEM N.T.S.

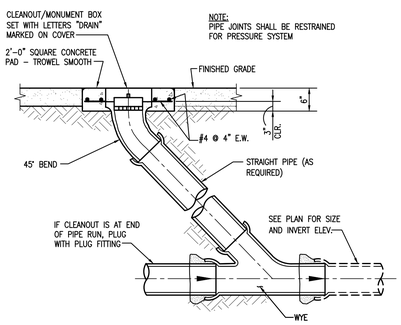


PLAN

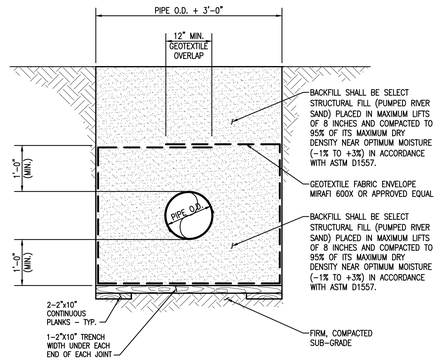


NOTES:
1. PRECAST STRUCTURE TO MEET ASTM C-857-92.
1. CONCRETE SHALL BE 4,000 P.S.I. MINIMUM @ 28 DAYS.
2. REINFORCING STEEL SHALL BE PER ASTM A-615, GRADE 60.
3. RAM-NEK GASKET MATERIAL (OR APPROVED EQUAL) TO BE USED AS JOINT SEALANT.

3 C201 DETAIL - PRECAST DRAIN INLET (SCHEMATIC) 1/2"=1'-0"

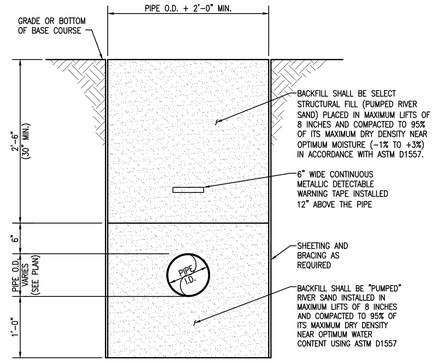


4 C201 DETAIL - DRAIN CLEANOUT 3/4"=1'-0"



NOTE: BEDDING AND FOUNDATIONS CONFORM WITH SECTION C741 OF THE GENERAL SPECIFICATIONS

5 C201 DETAIL - DRAINAGE PIPE BEDDING (A-2000 PVC PIPE) 3/4"=1'-0"



NOTE:
SHEETING AND BRACING SHOWN IS INTENDED FOR PROTECTION OF THE PIPE. AFTER INSTALLATION IS COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR DESIGN AND IMPLEMENTATION FOR ANY SHEETING AND/OR BRACING REQUIRED FOR THE SAFETY OF HIS EMPLOYEES AND TO PROTECT HIS OPERATIONS DURING CONSTRUCTION

6 C201 DETAIL - TYPICAL PIPE TRENCH AND BEDDING FOR DOMESTIC WATER AND FIRE MAIN 1"=1'-0"

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SCHEMATIC DESIGN

DRAWING ISSUE

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REVISIONS

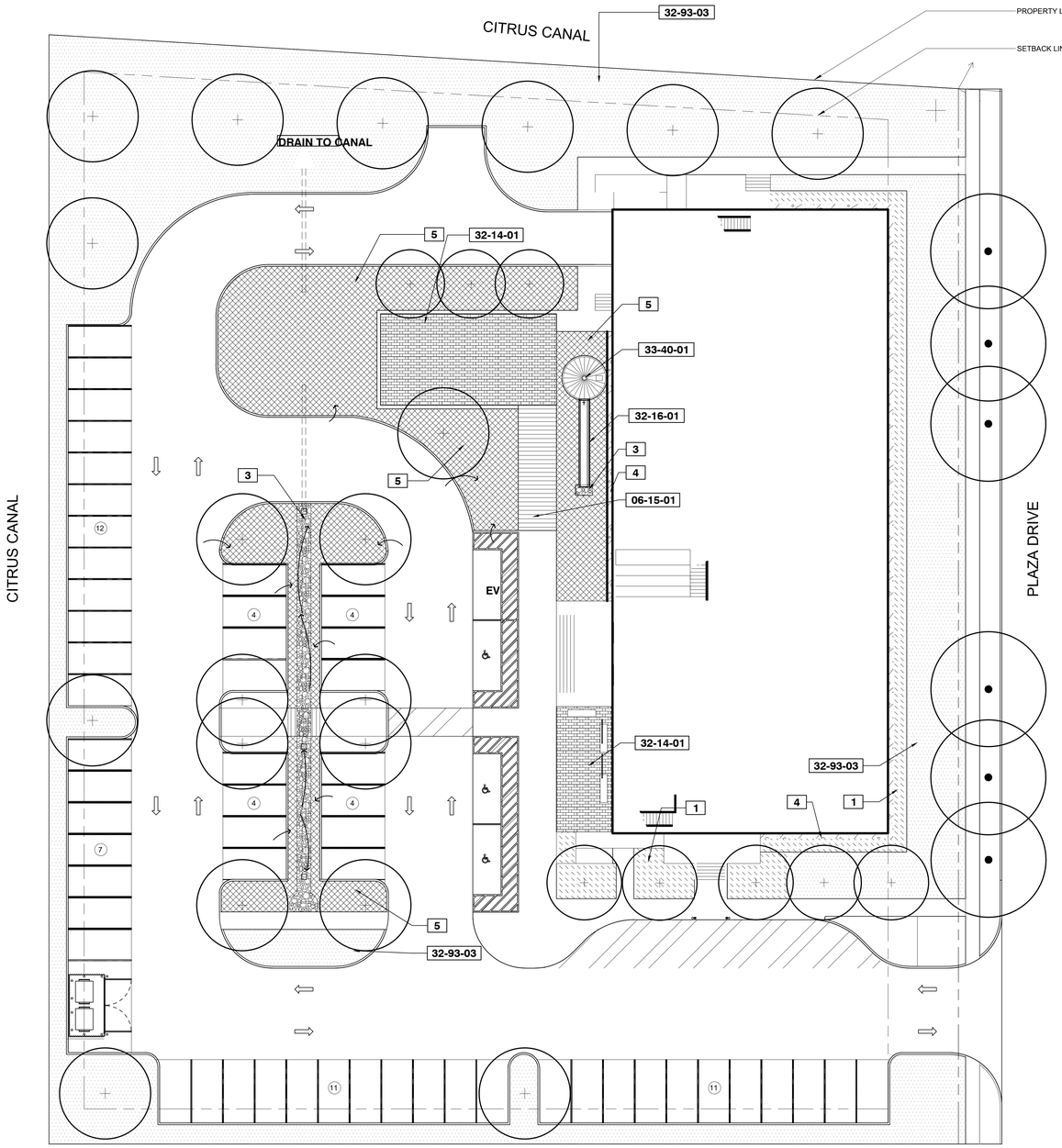
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JOB NO. 25001

WDG Project No: 24002

SHEET NAME
CIVIL DETAILS

SHEET NO. C201



A OVERALL LANDSCAPE PLAN

0 16 32 48 feet

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

REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
	1	PLANTING AREA	1,625 sf	
	3	ANGULAR RIPRAP 6-12", 12" THICK, OVER NONWOVEN GEOTEXTILE	18.3 cy	
	4	WASHED ANGULAR STONE, #3, 4" THICK OVER NONWOVEN GEOTEXTILE	5.61 cy	
	5	BIORENTENTION PLANTING WITH BIORETENTION SOIL MIX, 12" MIN.	6,335 sf	
06 WOOD, PLASTICS AND COMPOSITES				
	06-15-01	WOOD DECK, TBD	459 sf	

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL	ADDITIONAL NOTE	PAY ITEM	DESCRIPTION
32 EXTERIOR IMPROVEMENTS							
	32-14-01	PERMEABLE CONCRETE UNIT PAVERS	1,820 sf				
CURBS AND GUTTERS							
	32-16-01	STEEL RUNNEL CHANNEL ON MONOLITHIC CONC. WALL					
PLANTING							
	32-93-03	SOD	17,623 sf				

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
33 UTILITIES				
	33-40-01	15,500 GAL VERTICAL HDPE CISTERN ON REINF. CONC. PAD VINYL WRAP ON HDPE: LSE-RATED CAST FILM W/ UV LAM		

CISTERN & RUNNEL NOTES
15,500 GAL HDPE CISTERN ON REINF. CONC. PAD;

6" CISTERN OVERFLOW TO RUNNEL HEADBOX — FREE DISCHARGE SPOUT W/ ≥2" AIR GAP OVER CHANNEL; ANTI-VORTEX & INSECT SCREEN AT TANK.

3" CONTROLLED DISCHARGE (MOTORIZED BALL VALVE) TO SAME HEADBOX VIA DIFFUSER PLATE; PROVIDE MANUAL BYPASS.

RUNNEL HEADBOX (24"×24"): REMOVABLE SS TRASH BASKET, DIFFUSER, AND ENERGY DISSIPATION; LIP EL. ABOVE RUNNEL FREEBOARD.

STEEL RUNNEL CHANNEL (24" W × 6" D) ON MONOLITHIC CONC. PLINTH; SLOPE 1.0% (±0.10%); CHANNEL LIP PROJECTS 3–4" PAST FACE.

ENERGY DISSIPATION APRON AT RUNNEL OUTLET — ANGULAR RIPRAP 6–12" (D50=9"), 18" THK OVER NON-WOVEN GEOTEXTILE; APRON = RUNNEL WIDTH + 24" × 36" MIN; KEY EDGES 6".

SET RUNNEL INVERT @ HEADBOX ≥3" BELOW THE OVERFLOW SPOUT INVERT.

SET HEADBOX RIM ≥2" ABOVE RUNNEL DESIGN FREEBOARD (NO SPLASHOUT UNDER OVERFLOW).

CONTROLLED DISCHARGE INVERT LOWER THAN OVERFLOW INVERT (BOTH DAYLIGHT TO SAME HEADBOX).

RUNNEL SLOPES CONTINUOUSLY TO RAIN GARDEN; NO SAGS.

RAIN GARDEN EMERGENCY SPILLWAY MUST BE LOWER THAN CISTERN MANWAY AND HIGHER THAN RAIN GARDEN RIM.

OVERFLOW AND CONTROLLED DISCHARGE BOTH ENTER THE RUNNEL; THE RUNNEL CONVEYS TO THE RAIN GARDEN. NO SEPARATE BYPASS.

MAINTAIN AIR GAP AT OVERFLOW; DO NOT SUBMERGE OVERFLOW OUTLET.

PROVIDE SCREENS AT TANK OVERFLOW AND A REMOVABLE TRASH BASKET IN HEADBOX; CLEAN AFTER STORMS AND QUARTERLY.

SIZE RUNNEL/APRON FOR OVERFLOW PEAK (≥ ROOF INLET CAPACITY FOR DESIGN STORM).

ALL STAINLESS FASTENERS AT WATER HARDWARE; POLYURETHANE SEALANT BETWEEN STEEL CHANNEL AND CONCRETE.

GENERAL NOTES
WORK COVERED BY THIS SECTION INCLUDES FURNISHING OF AND PAYING FOR ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, OTHER ITEMS, AND APPLIANCES NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE DRAWING.

PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK AND PROVIDE FOR ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL UNDERGROUND UTILITY LINES (TELEPHONE, GAS, WATER, ELECTRICAL, CABLE, ETC.) PRIOR TO START OF ANY WORK.

CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING
THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES.

NO ATTEMPT HAS BEEN MADE BY PATCH LANDSCAPE ARCHITECTURE LLC. TO VERIFY TITLE, ACTUAL LEGAL OWNERSHIP, SERVITUDES, EASEMENTS, RIGHT- OF - WAYS, OR OTHER BURDENS ON THE PROPERTY OTHER THAN THAT FURNISHED BY THE CLIENT AND/OR HIS REPRESENTATIVE. CONTRACTOR SHALL CONFIRM.

THE LOCATION OF PROPERTY LINES, SERVITUDES AND UTILITIES ARE APPROXIMATE AND WERE FURNISHED BY ORIGINAL SURVEYED INFORMATION. PATCH LANDSCAPE ARCHITECTURE LLC DOES NOT WARRANT THE EXACT LOCATION OF INFORMATION SHOWN. CONTRACTOR SHALL CONFIRM

FOR UNDERGROUND INFORMATION:
LOUISIANA ONE CALL 1 800 272 3020

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
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REVISIONS

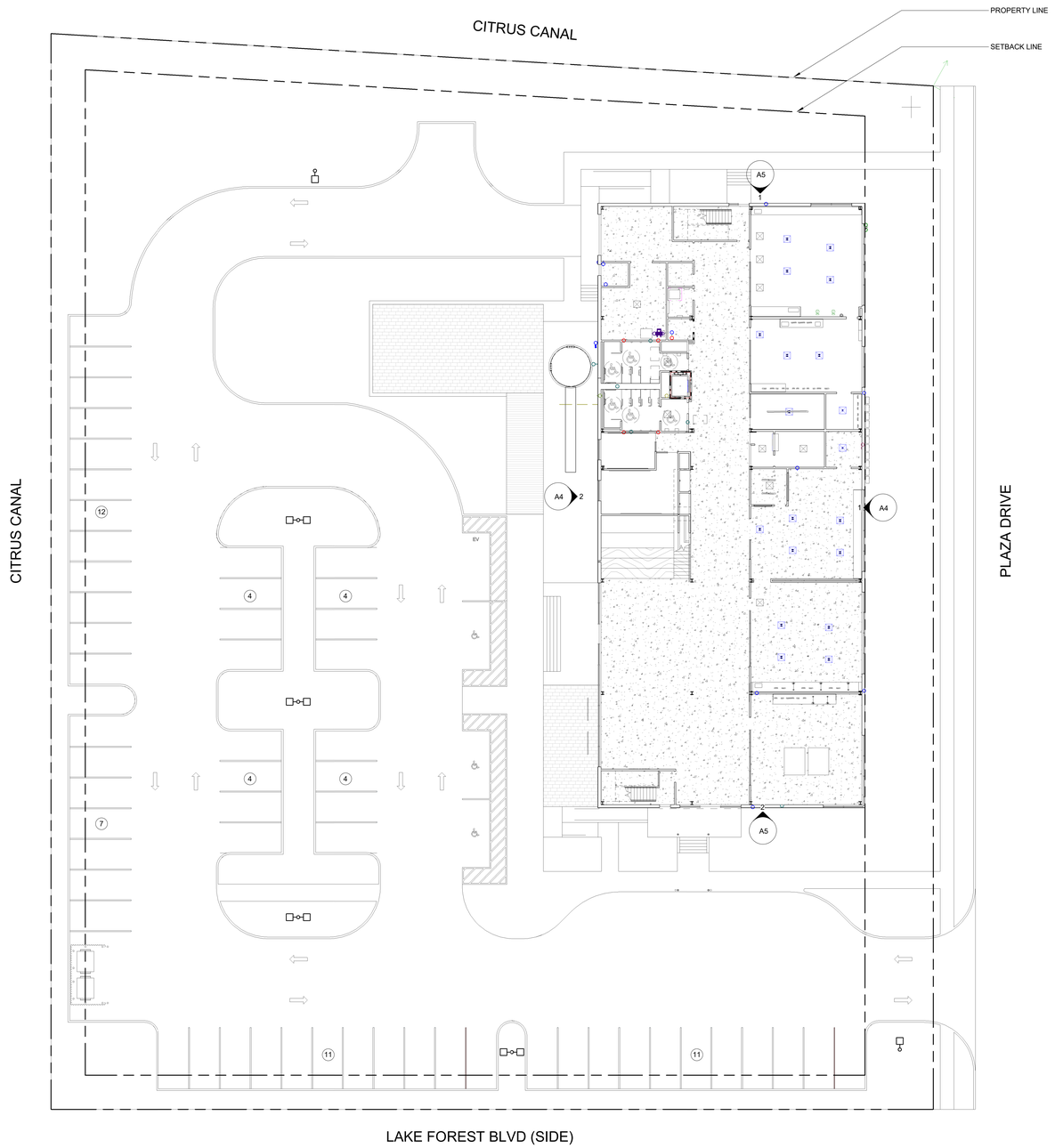
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WDG Project No: 24002

SHEET NAME
OVERALL LANDSCAPE PLAN

SHEET NO. L101

patch LANDSCAPE ARCHITECTURE



LAKE FOREST BLVD (SIDE)

1 A100 SITE PLAN

1/16" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. VERIFY ALL DIMENSIONS IN FIELD. NOTIFY ARCHITECT OF ANY CONFLICTS WITH EXISTING CONDITIONS OR INTENT IMMEDIATELY UPON DISCOVERY.

LEGEND

SITE PLAN LEGEND

PROPERTY LINE

SETBACK LINE

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STEM NOLA
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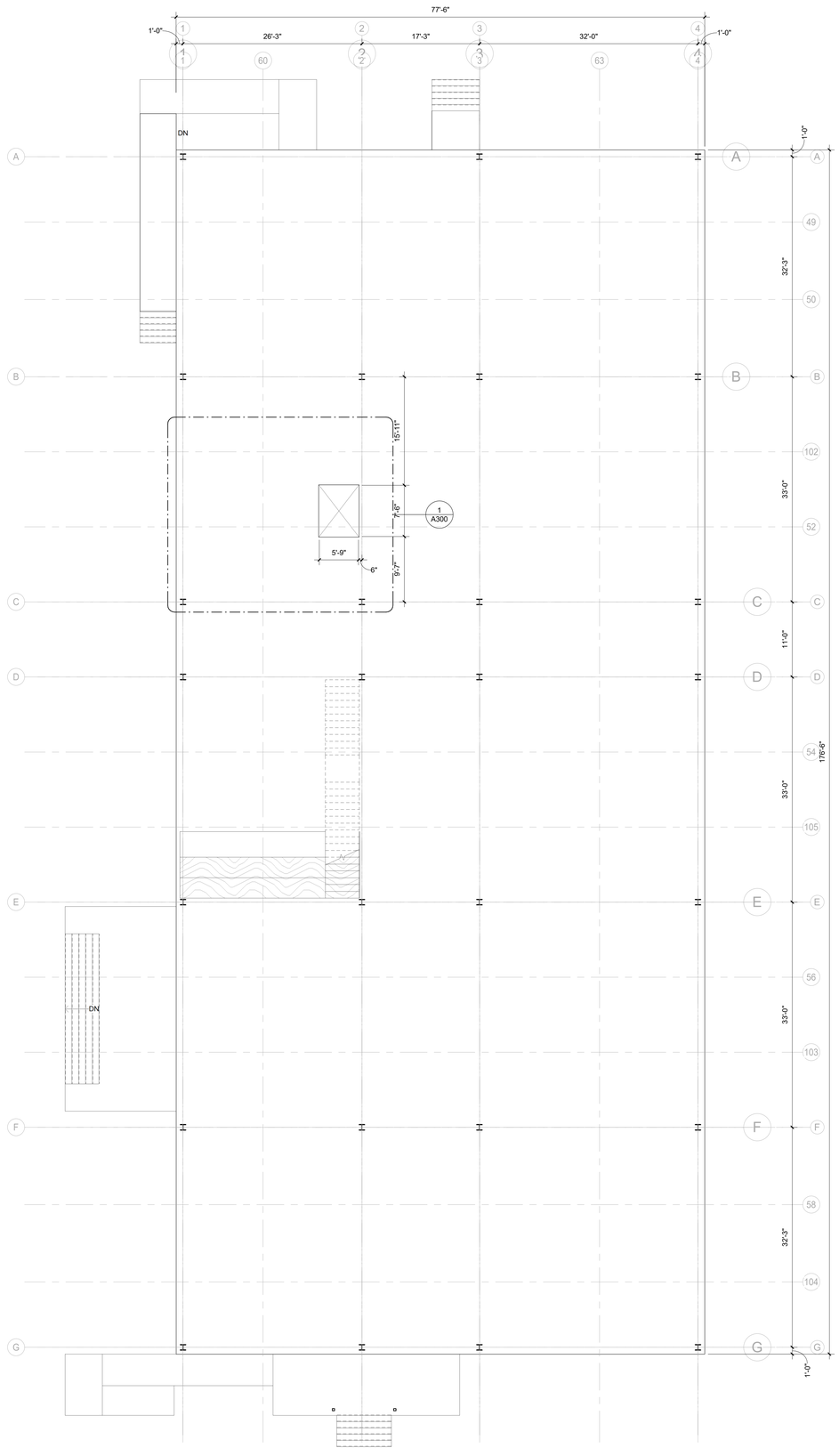
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WDG Project No: 2024002

SHEET NAME

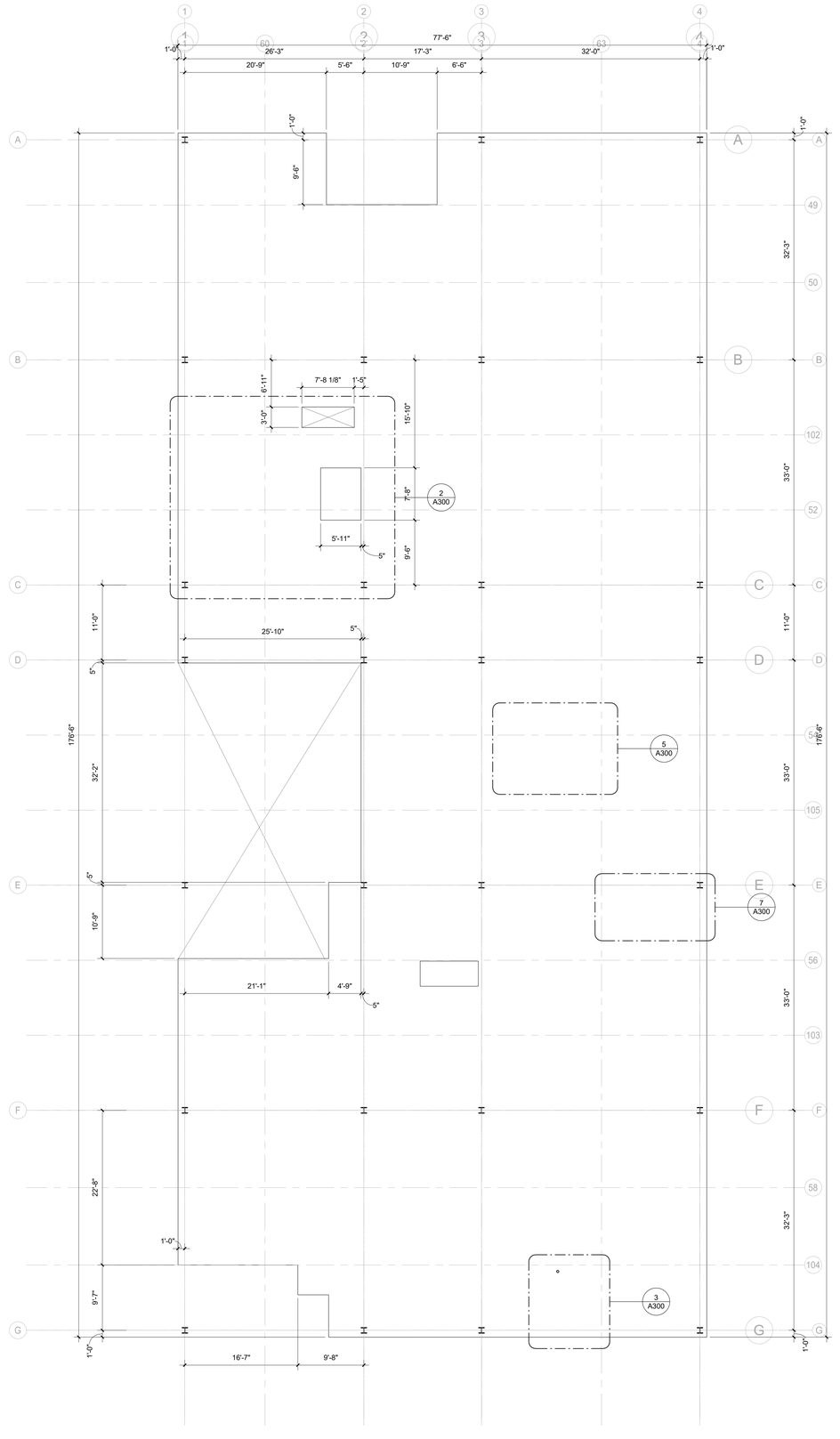
SITE PLAN

SHEET NO. A100



1 A201 FIRST FLOOR SLAB PLAN

1/8" = 1'-0"



2 A201 SECOND FLOOR SLAB PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. COORDINATE FOUNDATION W/ STRUCT. DWGS.

LEGEND

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STEM NOLA
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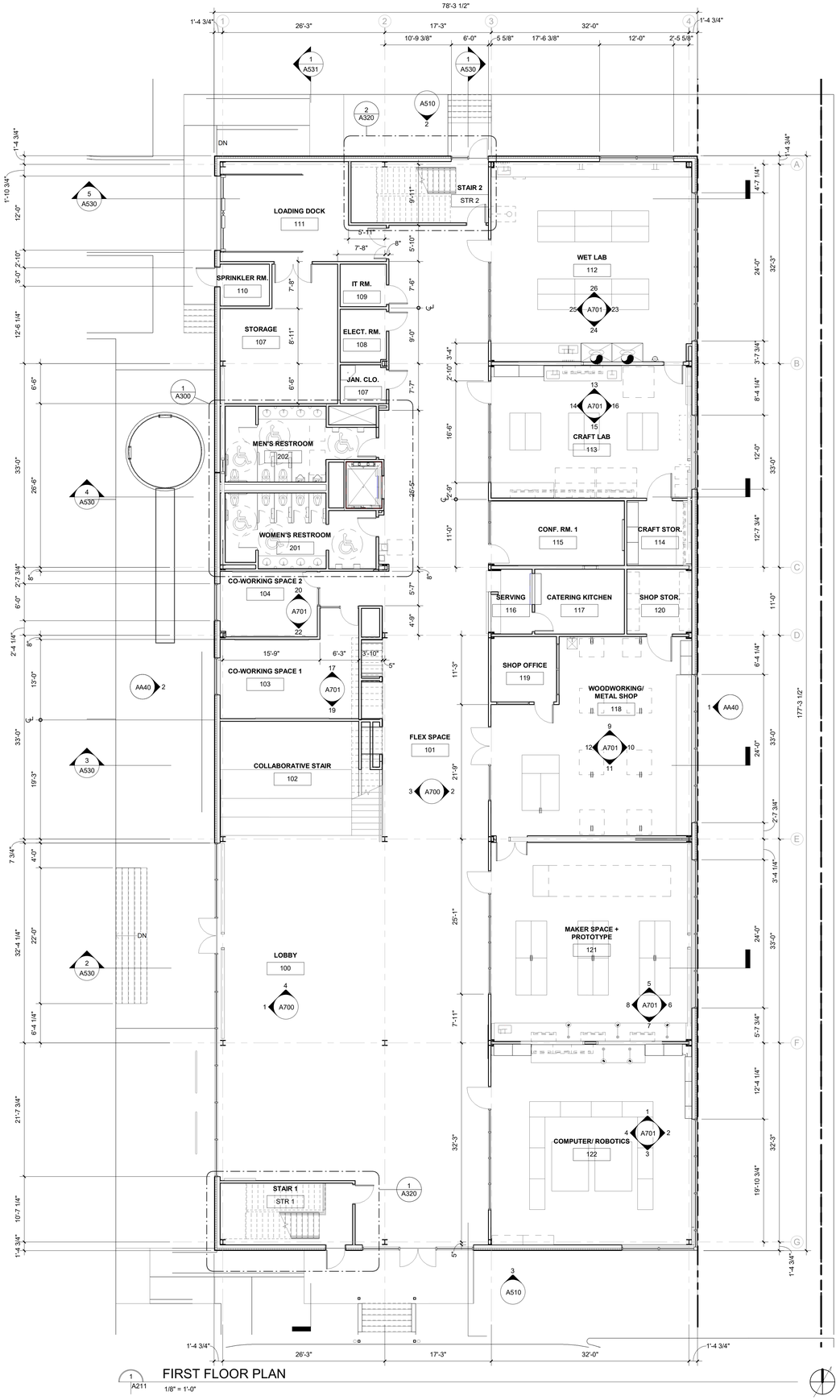
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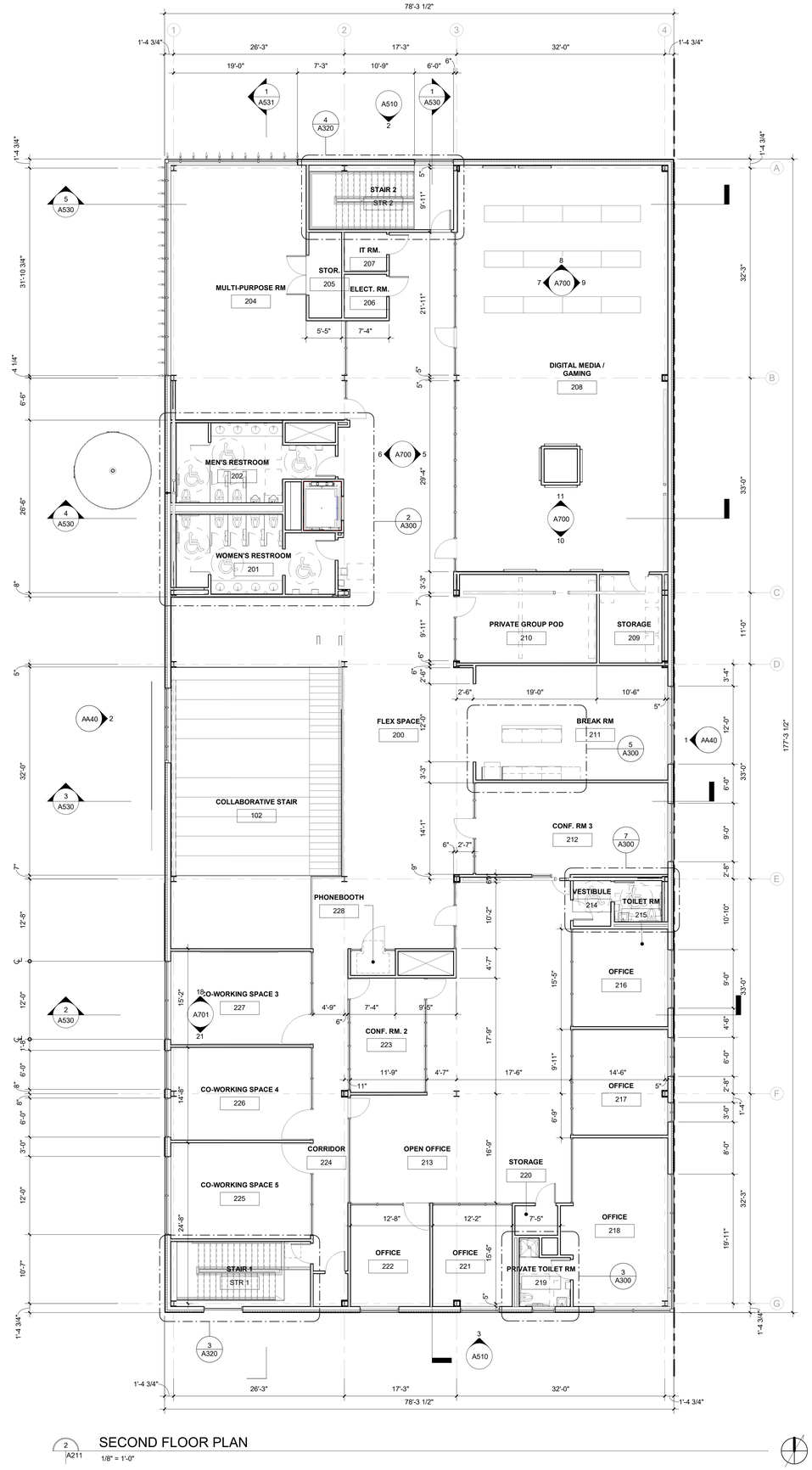
SHEET NAME

OVERALL SLAB PLANS

SHEET NO. A201



1 A211 FIRST FLOOR PLAN
1/8" = 1'-0"



2 A211 SECOND FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES

LEGEND

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STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

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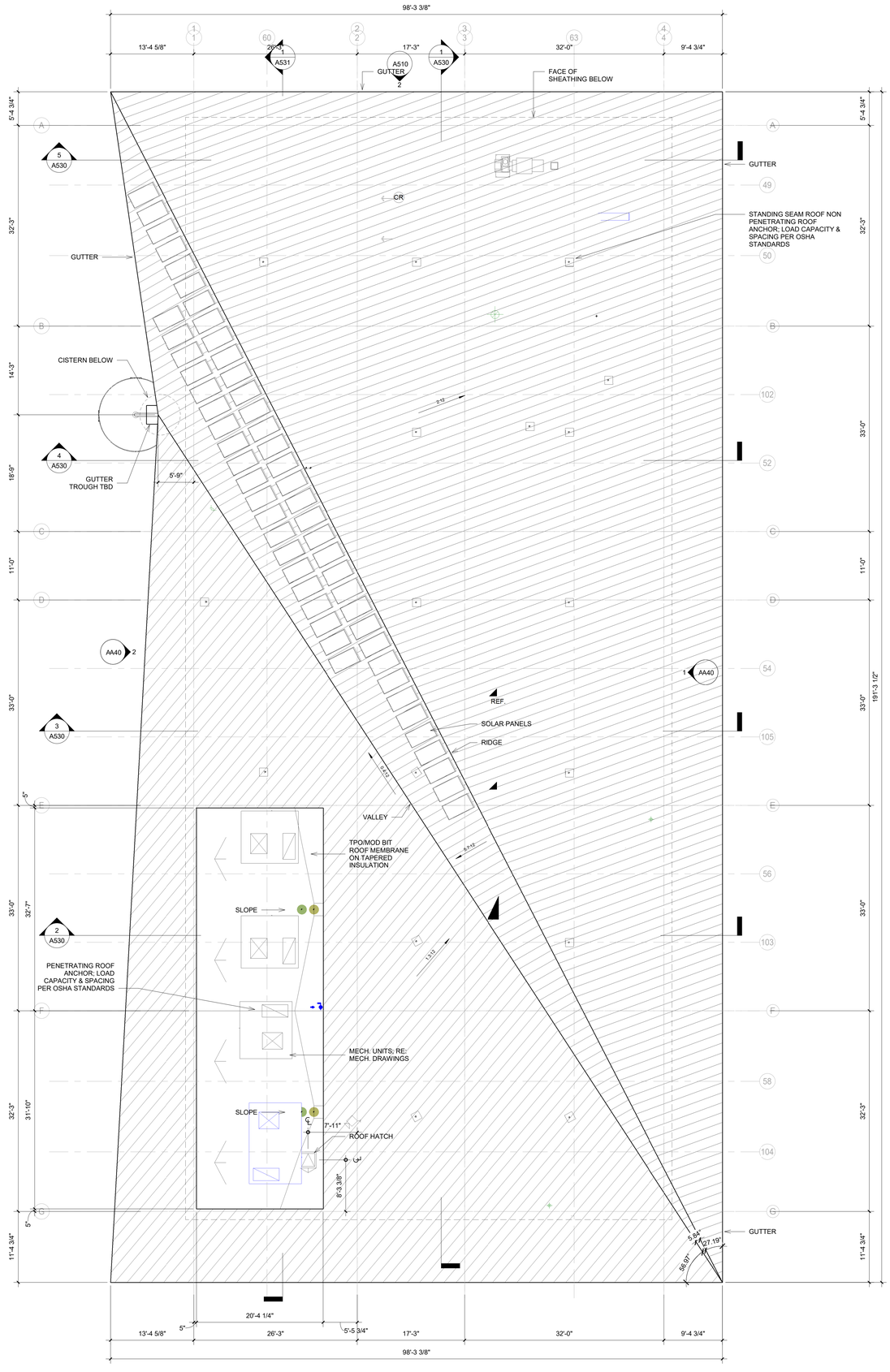
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WDG Project No: 2024002

SHEET NAME
OVERALL FLOOR PLANS

SHEET NO. A211



1 A220 ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. xxxx

LEGEND

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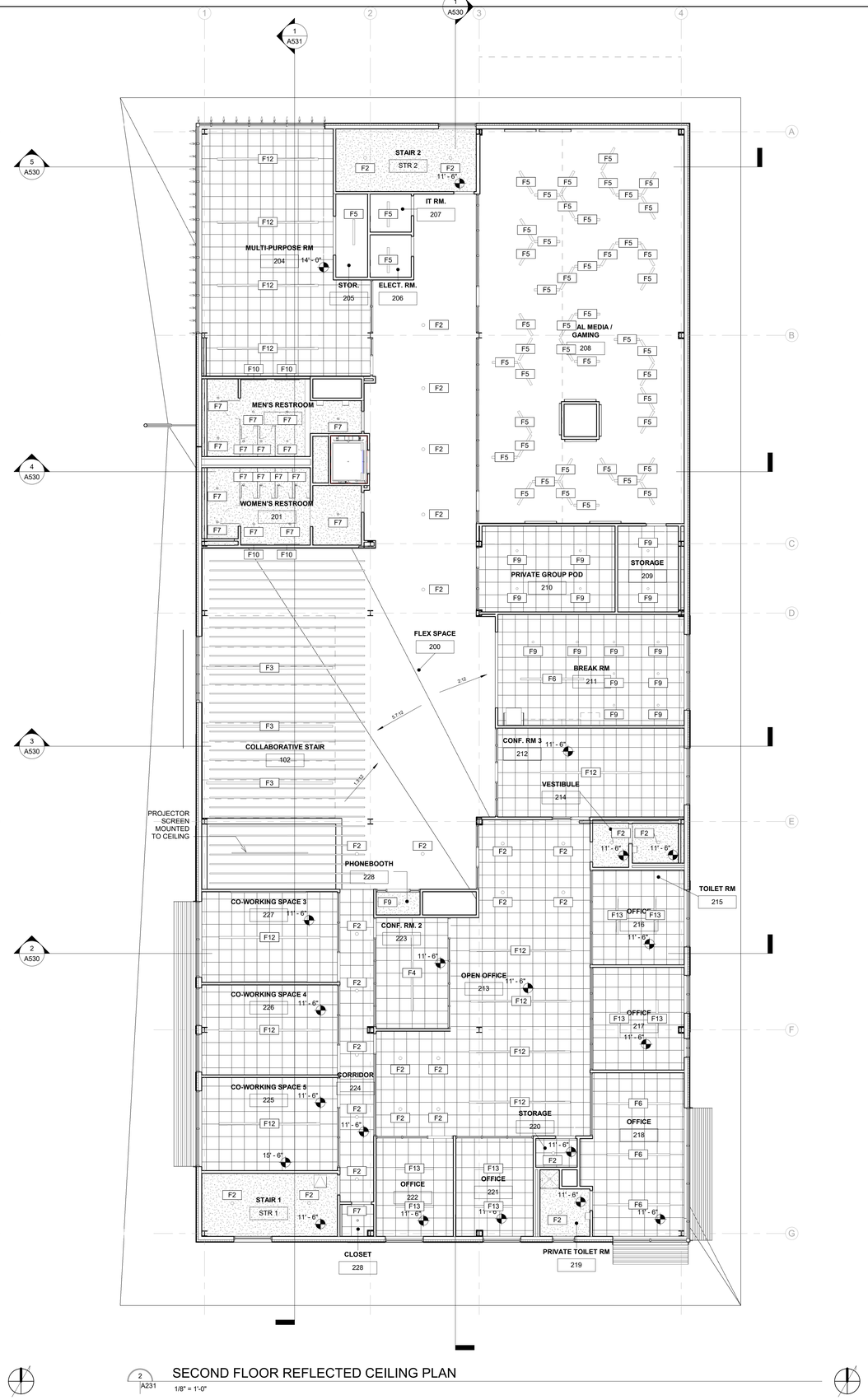
SHEET NAME

ROOF PLAN

SHEET NO. A220



1 FIRST FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
A231 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SCHEDULES, LEGENDS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
2. LIGHT FIXTURE LOCATIONS SHALL TAKE PRECEDENCE OVER ALL OTHER CEILING SYSTEMS FOLLOWED BY SURVEILLANCE CAMERAS, DIFFUSERS, RETURN AIR GRILLES, SOUND, ETC. ARCHITECTURAL DRAWINGS DICTATE INTENT OF FINAL LOCATION. GENERAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL THE ABOVE WITH ARCHITECTURAL PRIOR TO INSTALLATION PER SPECIFICATION.
3. FOR LIGHT FIXTURE LOCATIONS, THE ARCHITECTURAL DOCUMENTS SUPERSEDE THE ENGINEERING DOCUMENTS.
4. COORDINATE FINAL INSTALLATION OF ALL FIXTURE TYPES WITH ARCHITECTURAL, ELECTRICAL, MILLWORK AND/OR INTERIOR DESIGN DETAILS.
5. SEE ARCHITECTURAL LIGHTING PLANS & ENGINEERING DOCUMENTS FOR LIGHT FIXTURE DESIGNATIONS & SCHEDULE. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BID SUBMITTAL. NO CHANGE ORDERS WILL BE ACCEPTED DUE TO CONFLICTS IN SCHEDULES.
6. LIGHTING FIXTURE LOCATIONS, AS SHOWN ON LIGHTING PLANS, SHALL TAKE PRECEDENCE OVER ALL OTHER SYSTEMS. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO EXECUTING ANY CHANGES IN LOCATION.
7. CONFIRM THE EXACT LENGTHS REQUIRED BY FIELD MEASUREMENT FOR ALL LINEAR FIXTURE TYPES AND PROVIDE ALL NECESSARY PARTS AND ACCESSORIES TO INSURE PROPER AND COMPLETE INSTALLATION.
8. CONSTRUCT ALL ARCHITECTURAL COVE TYPE FIXTURES AS DETAILED AND DIMENSIONED. OBTAIN WRITTEN APPROVAL FROM LIGHTING DESIGNER/ARCHITECT PRIOR TO UNDERTAKING ANY CHANGES TO DIMENSIONS OR CONFIGURATION.
9. CONFIRM WITH ARCHITECT DESIGNER THE EXACT CENTER LINE AFF MOUNTING HEIGHT OF ALL JUNCTION BOXES FOR WALL MOUNTED FIXTURE TYPES.
10. SEE ENGINEERING DOCUMENTS FOR BALLAST AND VOLTAGE REQUIREMENTS.
11. CONFIRM THAT ALL FIXTURES ARE UL OR ETL LISTED AS A SYSTEM AND COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES APPLICABLE TO JURISDICTION.
12. CONFIRM AND SUPPLY THE EXACT TYPE, SIZE AND QUANTITY OF ALL LAMPS REQUIRED FOR EACH FIXTURE AND TYPE.
13. AT CLOSE OF JOB, RE-LAMP ALL FIXTURES WITH NEW LAMPS AND PROVIDE OWNER/TENANT WITH 10% SPARE (NEW) LAMPS OF ALL LAMP TYPES, UNO.
14. SIZE ALL TRANSFORMERS PER NATIONAL ELECTRIC CODES APPLICABLE TO JURISDICTION.
15. PROVIDE DIMMABLE BALLAST FOR ALL FLUORESCENT LIGHTS CONTROLLED BY DIMMER SWITCHES.
16. CONFIRM ALL FINISHES NOT SPECIFIED WITH ARCHITECT PRIOR TO ORDERING.
17. PROVIDE SELF-FLANGED, OVERLAP TRIMS OF THE SAME MATERIAL AND FINISH AS THE REFLECTOR FOR ALL RECESSED FIXTURES.
18. ASSURE THAT ALL OPEN REFLECTOR AND ALZAK CONE APERTURE TYPE FIXTURES MATCH IN COLOR AND APPEARANCE REGARDLESS OF TYPES AND SOURCE.
19. ASSURE THAT ALL FIXTURES ARE FREE OF SCRATCHES, DENTS, DUST, FINGERPRINTS, ETC, AT CLOSE OF JOB.
20. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS, SEE ENGINEERING DOCUMENTS.
21. GANG ALL ADJACENT SWITCHES UNDER ONE COVER PLATE.
22. SWITCH HEIGHT TO BE 38" AFF, UNLESS OTHERWISE NOTED. WHEN SWITCHES AND DIMMERS ARE ADJACENT, ALIGN THE HORIZONTAL CENTERLINE OF THE SWITCH AND THE HORIZONTAL CENTERLINE OF THE DIMMER. THE DISTANCE BETWEEN THE SWITCH AND THE DIMMER SHOULD BE ONE INCH (1").
23. FOR LIGHT SWITCHING AND LIGHT SWITCH LOCATIONS REFER TO ENGINEERING DOCUMENTS. COORDINATE ALL SWITCHES WITH MILLWORK.
24. ALL FIXTURE QUANTITIES SHOWN ON THE ENGINEERING LIGHTING PLANS ARE FOR PATTERN.
25. ALL FIXTURES IN CEILING TILES TO BE CENTERED IN TILE U.N.O.

LEGEND

LIGHTING FIXTURE LEGEND

F2	6" CYLINDER PENDANT
F3	LINEAR PENDANT - 20'
F4	LINEAR PENDANT - 12'
F5	LINEAR PENDANT - 4'
F6	LINEAR PENDANT - 10'
F7	RECESSED CAN - 4"
F9	4" CYLINDER PENDANT
F10	48" LINEAR VANITY SCONCE
F11	DECORATIVE SCONCE LIGHT
F12	LINEAR PENDANT - 16'
F13	LINEAR PENDANT - 6'
F14	CEILING RECESSED LINEAR LIGHT

- NO CEILING. EXPOSED TO STRUCTURE TO ABOVE
- 2'x2' SQ. LAY-IN, FINE TEXTURE ACOUSTICAL CEILING TILE & GRID: ACT-1
- SUSPENDED GYPSUM BOARD CEILING
- RECESSED RECTANGULAR LIGHT FIXTURE
- RECESSED CAN DOWNLIGHT
- LINEAR PENDANT LIGHT
- EXTERIOR SCONCE UP-DOWN LIGHT
- EXTERIOR EMERGENCY SCONCE
- EXIT LIGHT (CEILING MOUNTED)
- EXIT LIGHT (WALL MOUNTED)
- RETURN AIR/EXHAUST
- DIFFUSER
- (T) THERMOSTAT
- (M) MICROPHONE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
studio kiro

STEM NOLA
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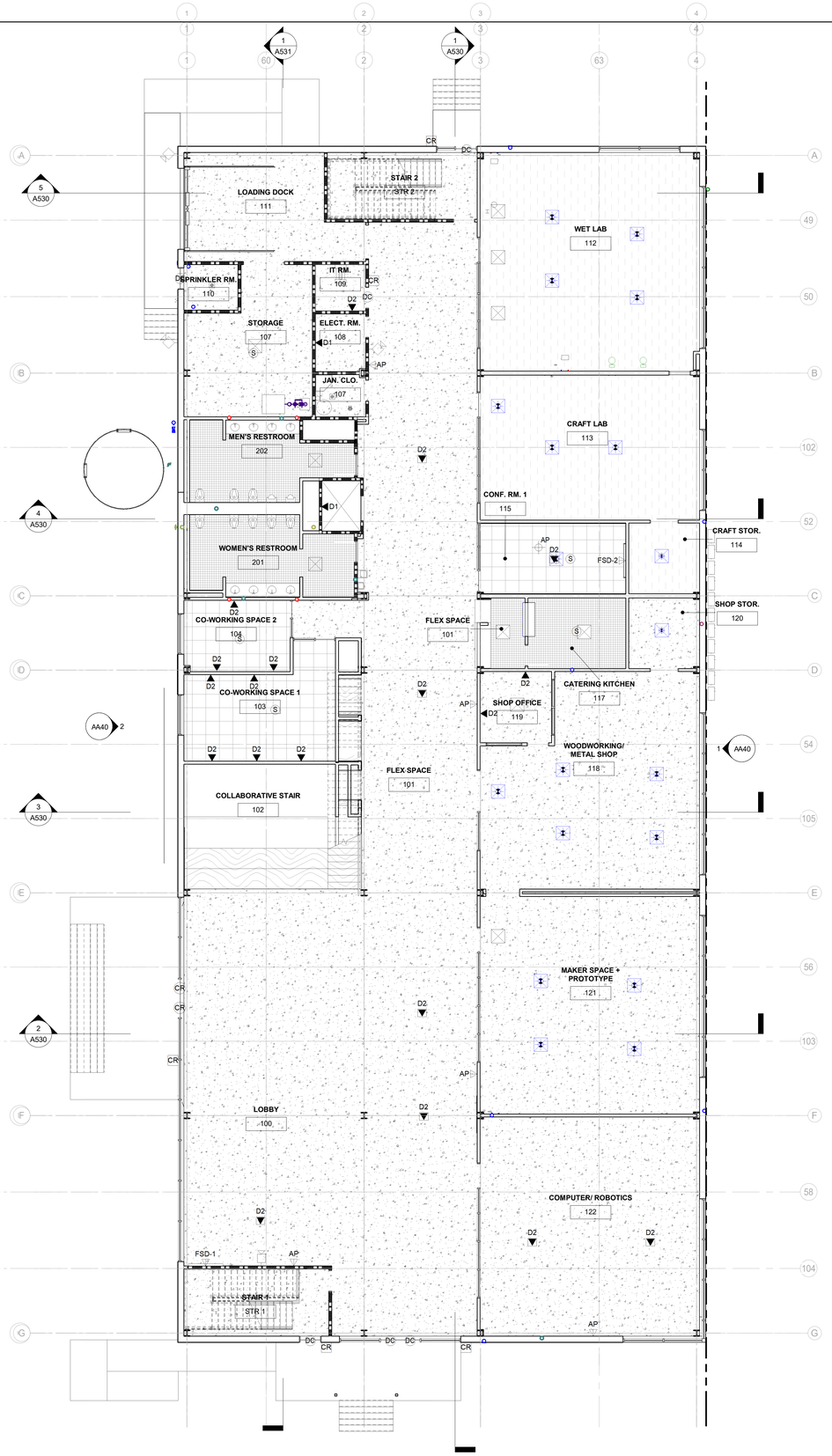
REVISIONS

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WDG Project No: 2024002

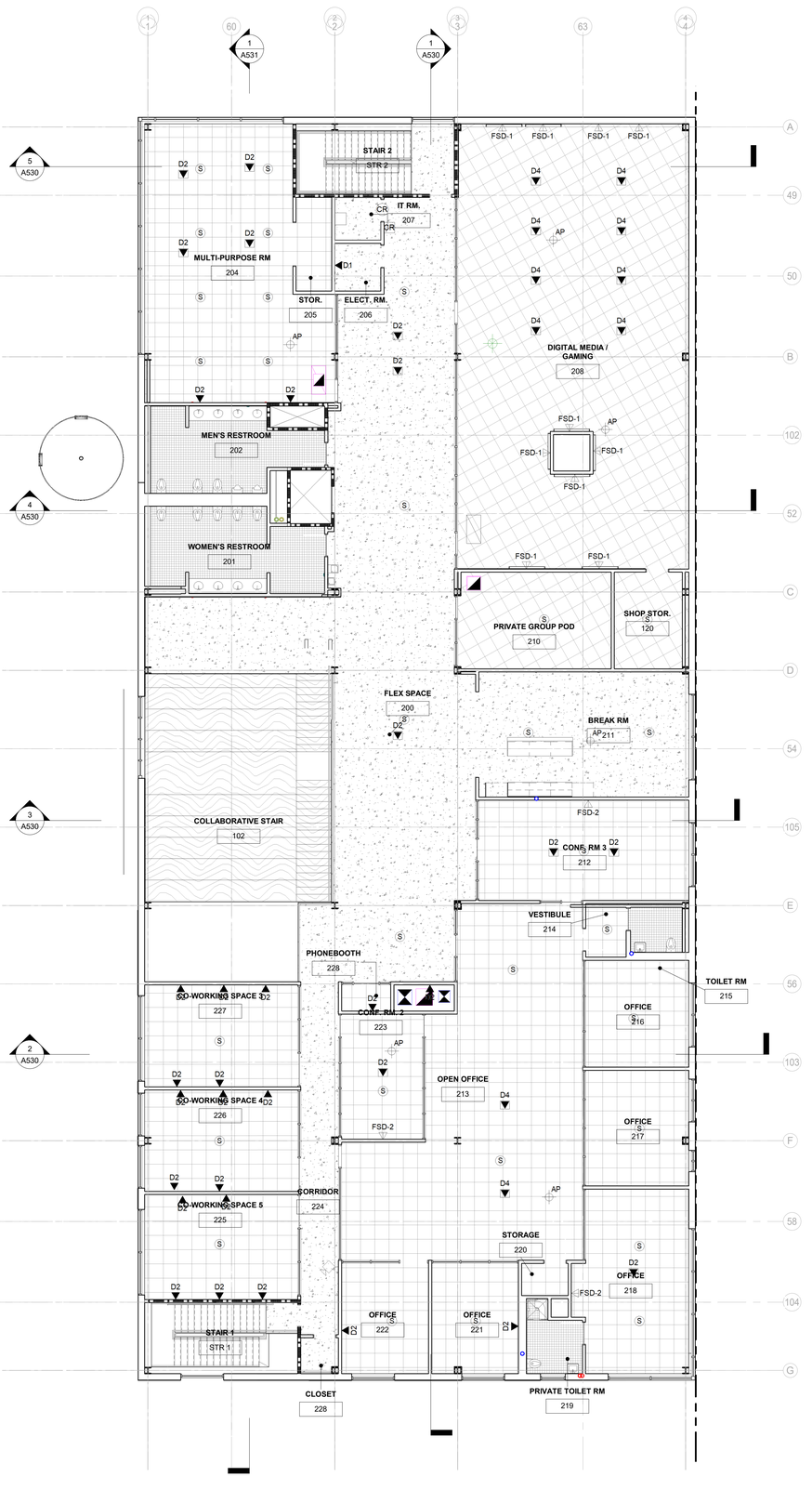
SHEET NAME
OVERALL REFLECTED CEILING PLANS

SHEET NO.
A231



1 A241 FIRST FLOOR FINISH PLAN

1/8" = 1'-0"



2 A241 SECOND FLOOR FINISH PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
studio kiro

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

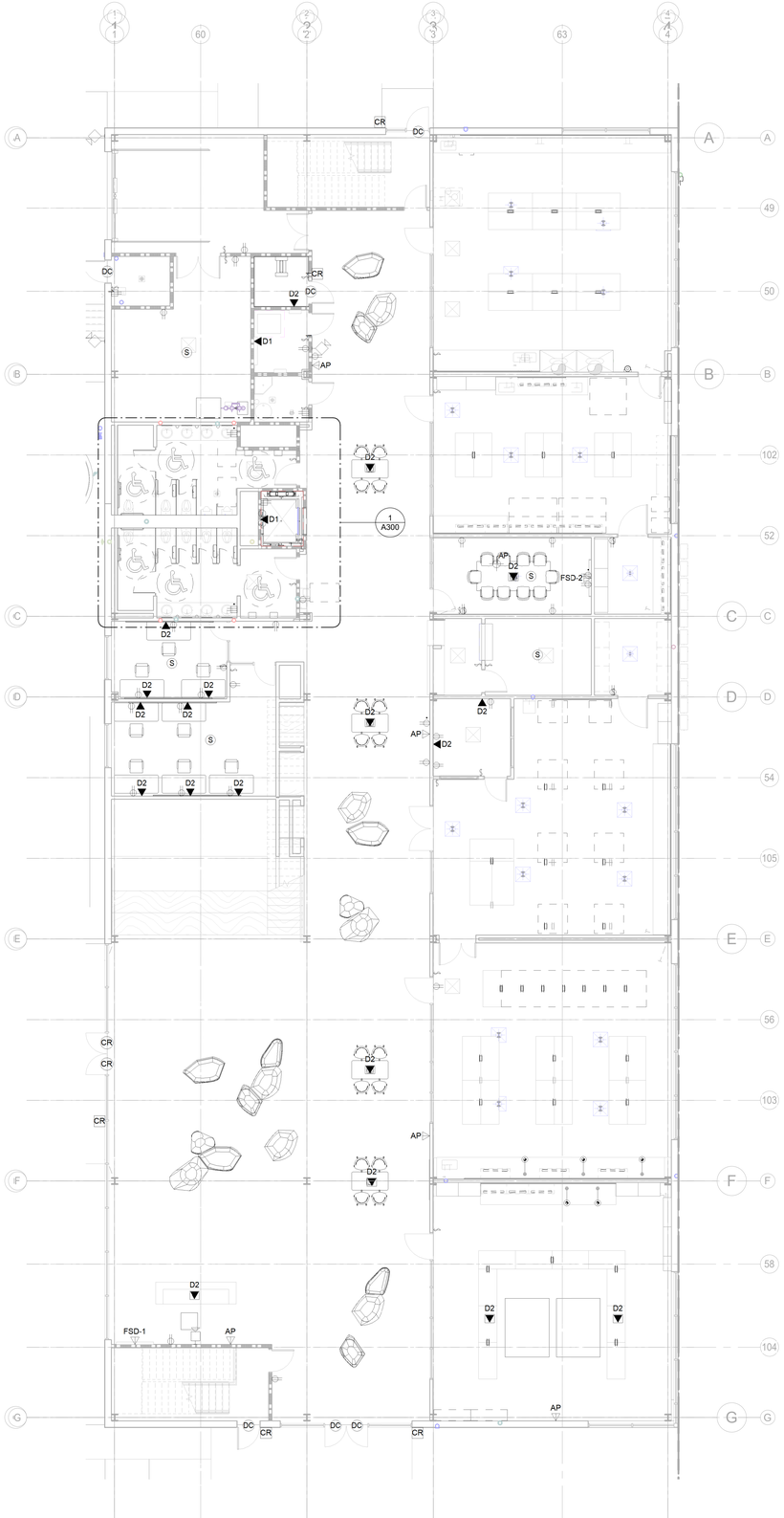
NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME

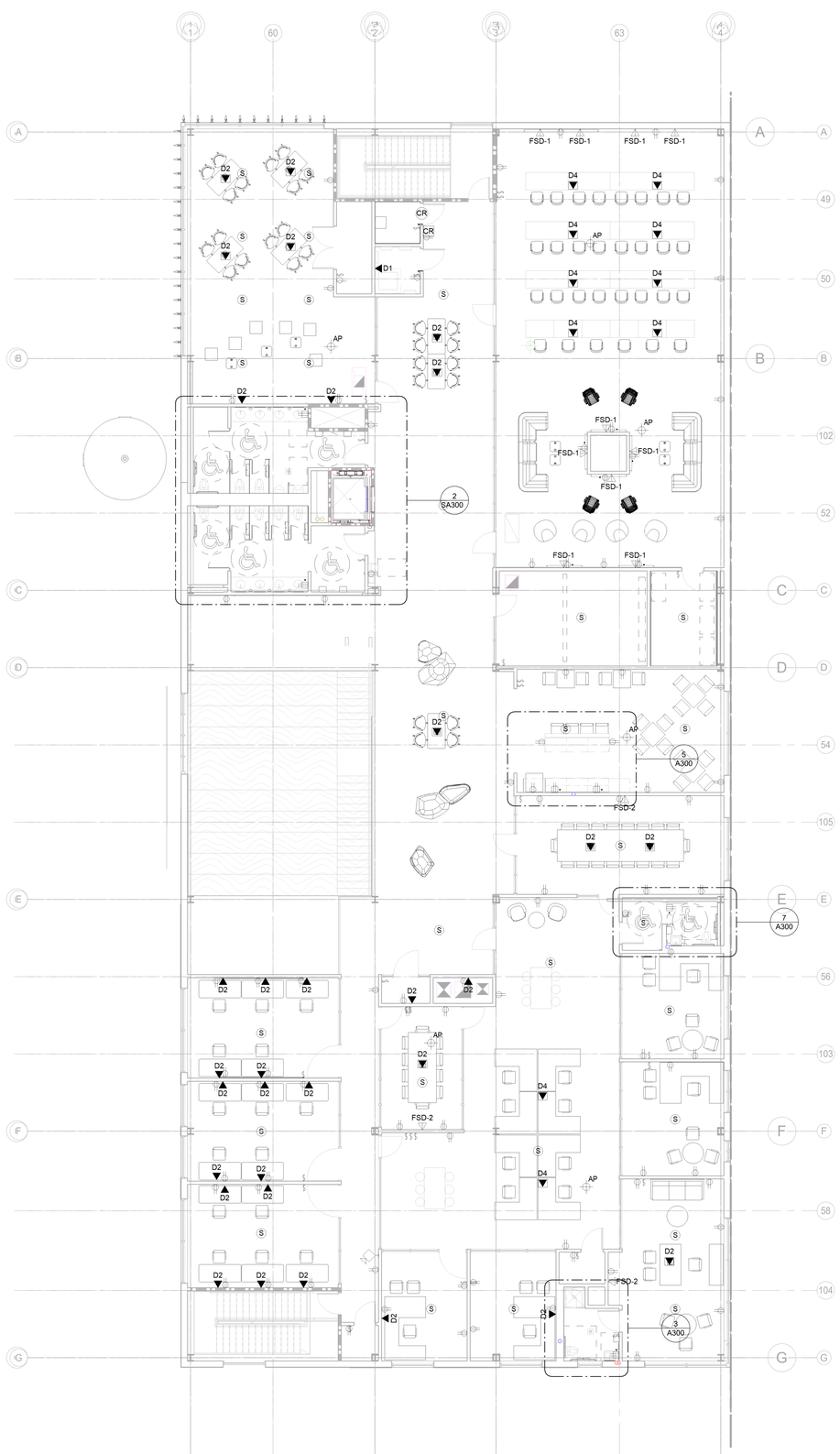
OVERALL FINISH PLANS

SHEET NO. A241



1 A251 FIRST FLOOR FURNITURE PLAN

1/8" = 1'-0"



2 A251 SECOND FLOOR FURNITURE PLAN

1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

NEW WALL; RE: PARTITION TYPES

EXISTING TO REMAIN

SRC (A) FIRE EXTINGUISHER CABINET

HB HOSE BIB; RE: PLUMB.

CR CARD READER; RE: ELEC.

HB BIOMETRIC TIME CLOCK; RE: ELEC.

IC INTERCOM; RE: ELEC.

FLOOR OUTLET; RE: ELEC.

WALL OUTLET; RE: ELEC.

DATA RECEPTACLE; RE: ELEC.

T THERMOSTAT; RE: ELEC.

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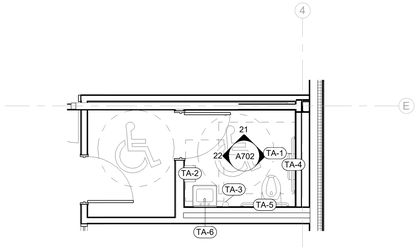
WDG Project No: 2024002

SHEET NAME

OVERALL FF&E PLANS (FOR REFERENCE ONLY)

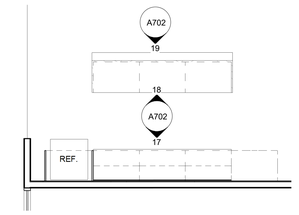
SHEET NO.

A251



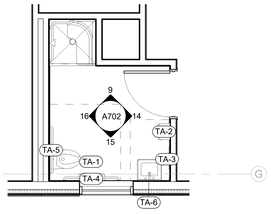
7 A201 | A300 ENLARGED PLAN - STAFF TOILET

1/4" = 1'-0"



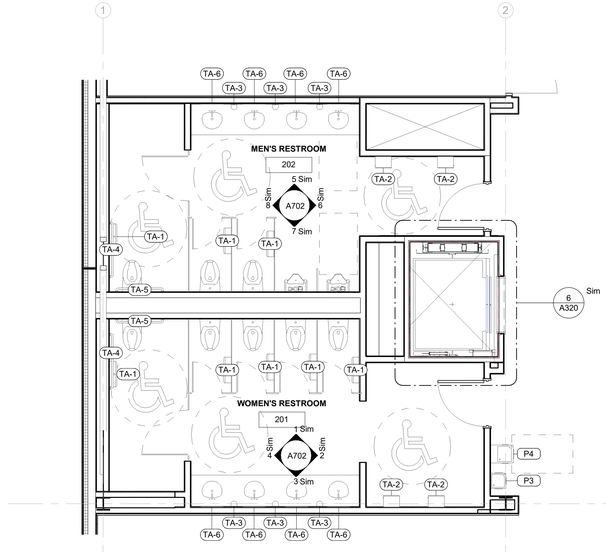
5 A201 | A300 ENLARGED PLAN - KITCHENETTE

1/4" = 1'-0"



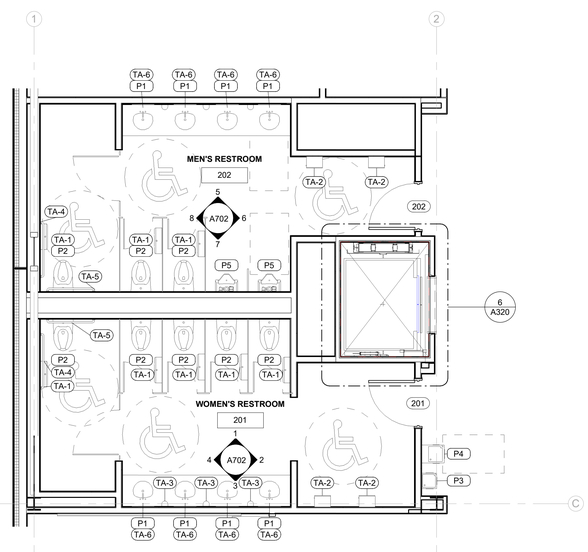
3 A201 | A300 ENLARGED PLAN - PRIVATE TOILET ROOM

1/4" = 1'-0"



2 A201 | A300 ENLARGED PLAN - 2ND FLOOR RESTROOM

1/4" = 1'-0"



1 A201 | A300 ENLARGED PLAN - 1ST FLOOR RESTROOM

1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES

LEGEND

WILLARD DESIGN GROUP
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6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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REVISIONS

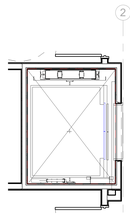
NOT FOR CONSTRUCTION

WDG Project No: 2024002

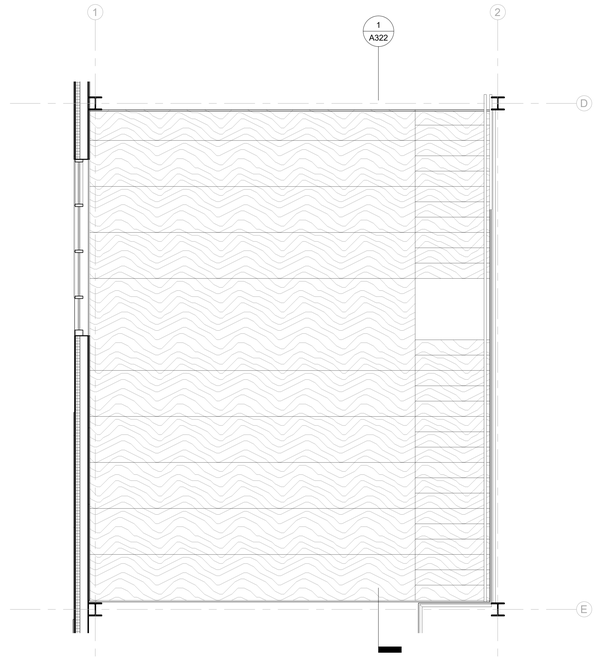
SHEET NAME

ENLARGED PLANS

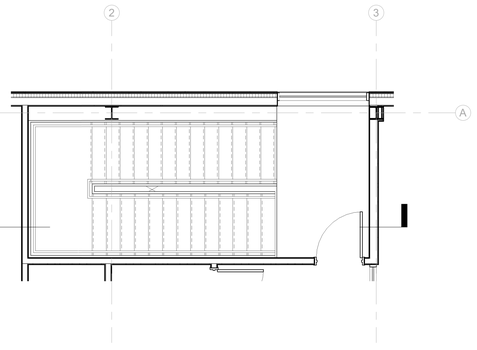
SHEET NO. A300



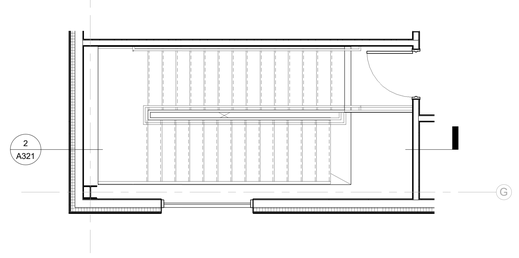
6 A300 A320 ENLARGED PLAN - ELEVATOR - 1ST & 2ND FL
1/4" = 1'-0"



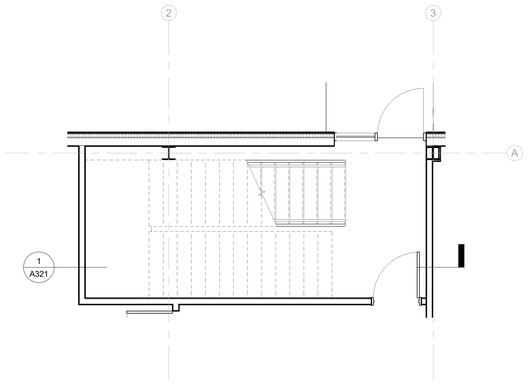
5 A320 ENLARGED PLAN - COLLAB. STAIR - 2ND FL
1/4" = 1'-0"



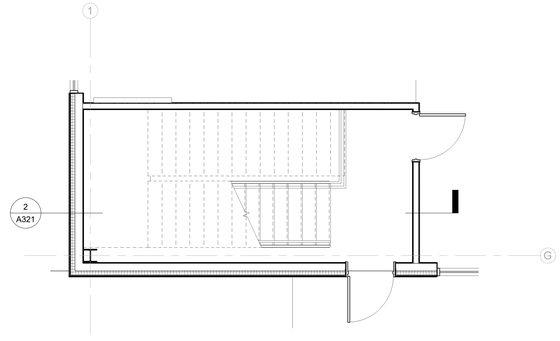
4 A211 A320 ENLARGED PLAN - STAIR 2 - 2ND FL
1/4" = 1'-0"



3 A211 A320 ENLARGED PLAN - STAIR 1 - 2ND FL
1/4" = 1'-0"



2 A211 A320 ENLARGED PLAN - STAIR 2 - 1ST FL
1/4" = 1'-0"



1 A211 A320 ENLARGED PLAN - STAIR 1 - 1ST FL
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

1. INSTALL BLOCKING AT ALL WALL-MOUNTED EQUIPMENT LOCATIONS
2. REFER TO TYPICAL ADA DRAWINGS ON SHEETS G050, G051, & G052 FOR DIMENSIONS, HEIGHTS, AND ACCESSORIES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
STEM MULTI-PURPOSE BUILDING
SPECIALIZED STEM
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR

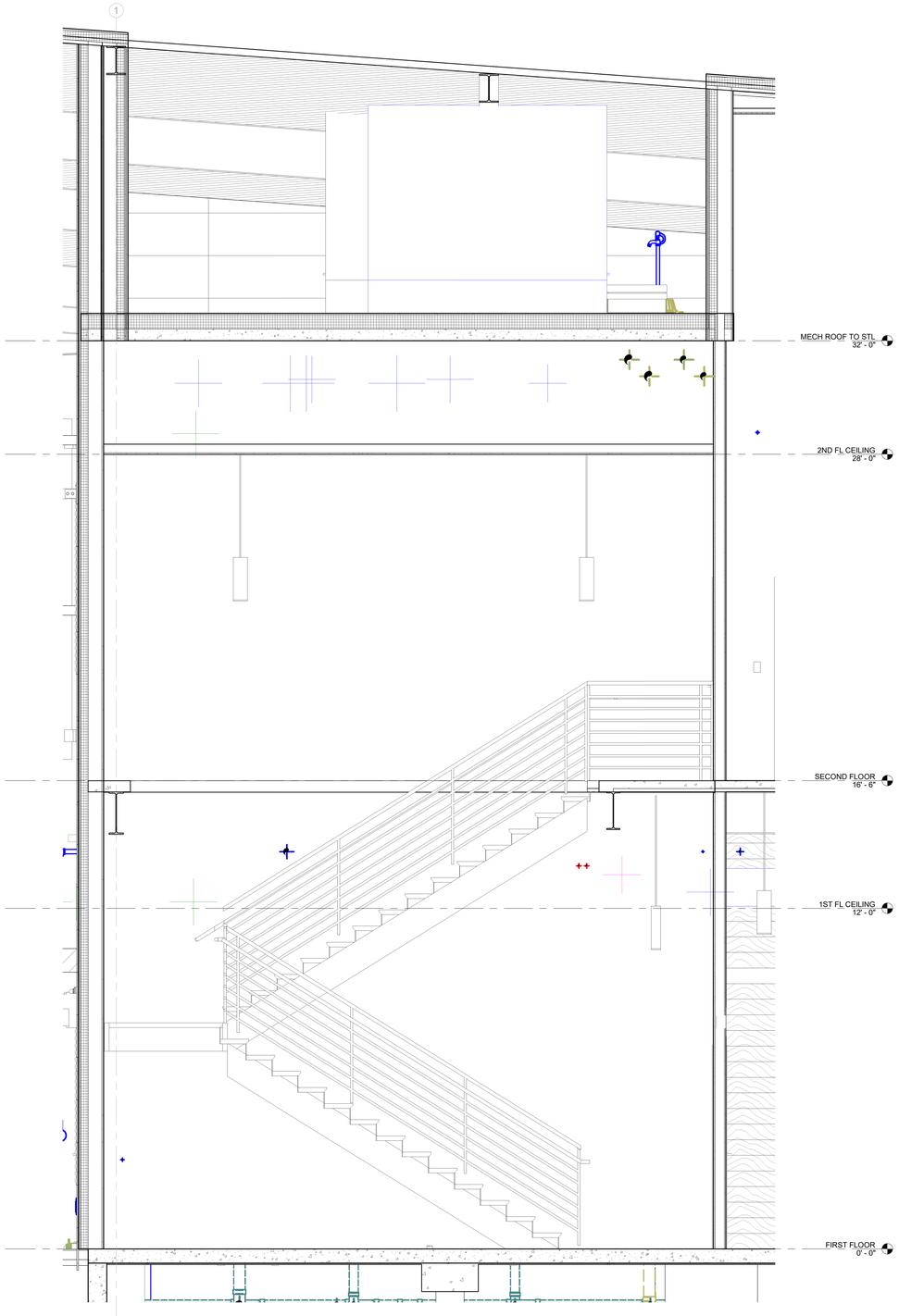
REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
ENLARGED VERTICAL CIRCULATION DETAILS

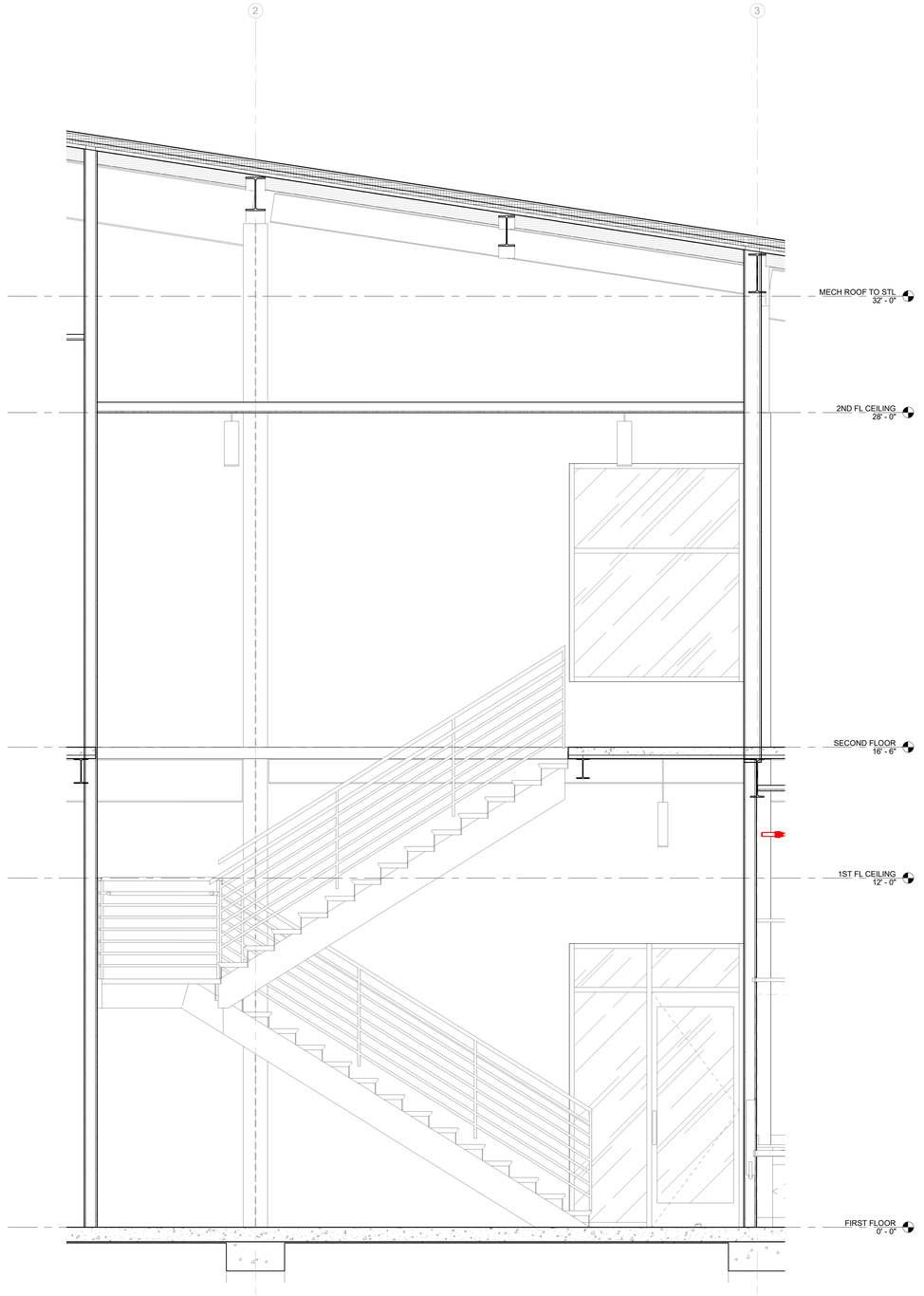
SHEET NO. A320



2 A320 | A321

SECTION @ STAIR 1

1/2" = 1'-0"



1 A320 | A321

SECTION @ STAIR 2

1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

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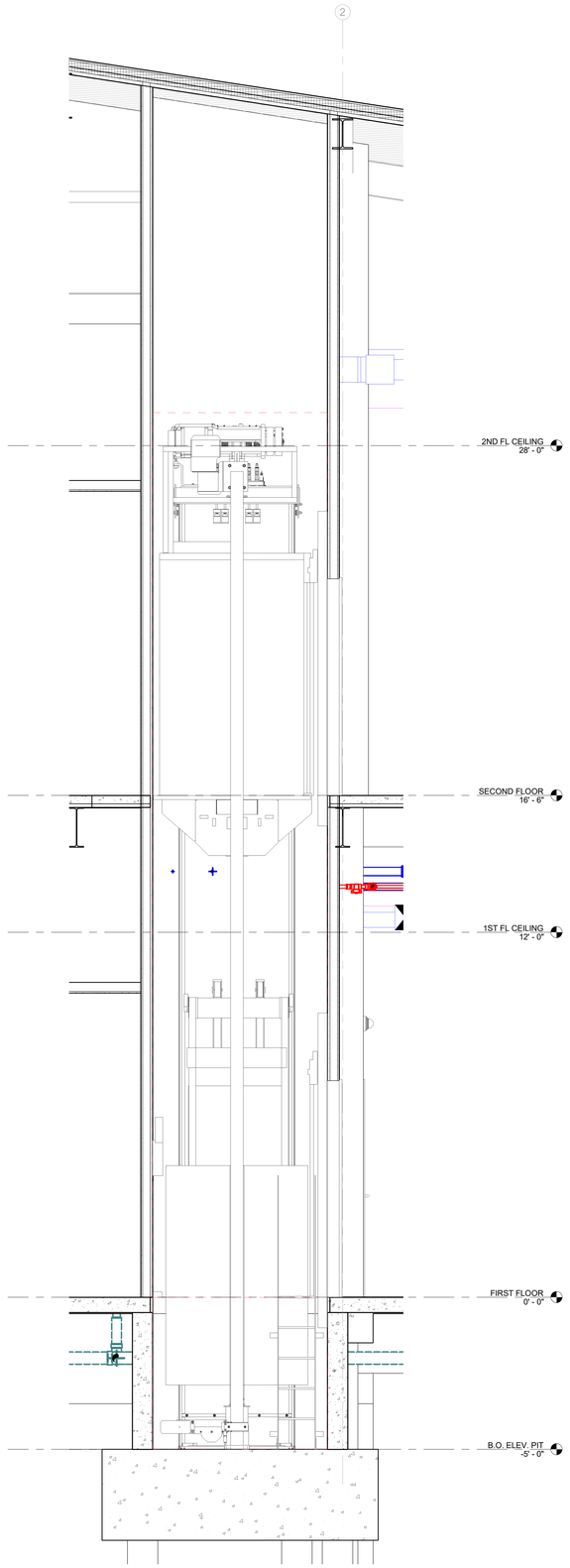
WDG Project No: 2024002

SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

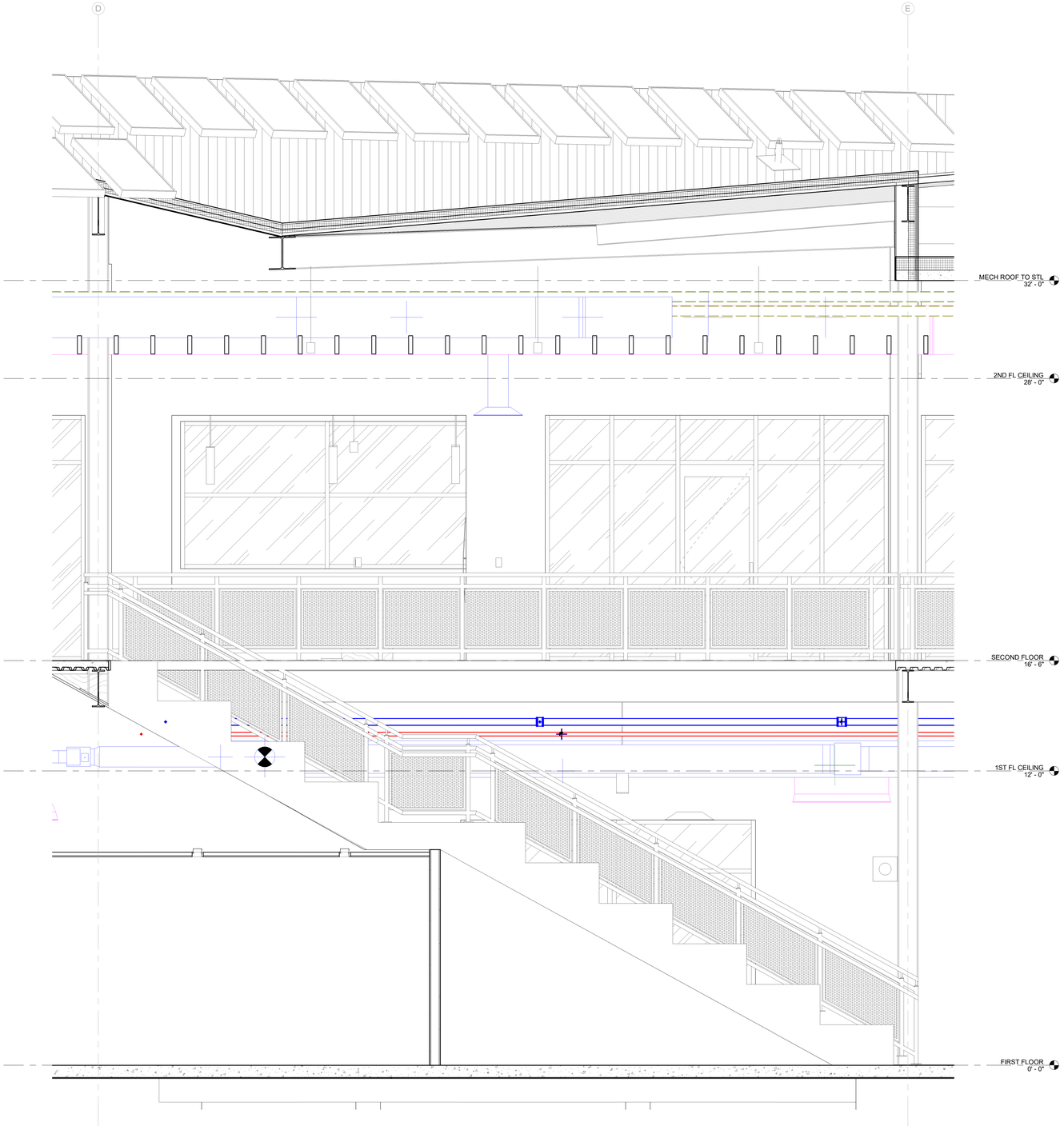
SHEET NO.

A321



2 A530 A322 SECTION @ ELEVATOR

1/2" = 1'-0"



1 A320 A322 SECTION @ COLLABORATIVE STAIR

1/2" = 1'-0"

WILLARD DESIGN GROUP
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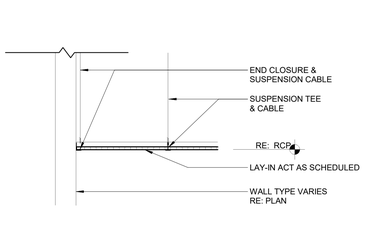
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WDG Project No: 2024002

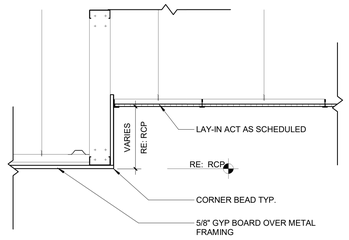
SHEET NAME

ENLARGED VERTICAL CIRCULATION DETAILS

SHEET NO. A322



2 A420 ACT TO WALL TRANSITION
1" = 1'-0"



1 A420 ACT TRANSITION TO GYP. SOFFIT DTL.
1" = 1'-0"

WILLARD DESIGN GROUP
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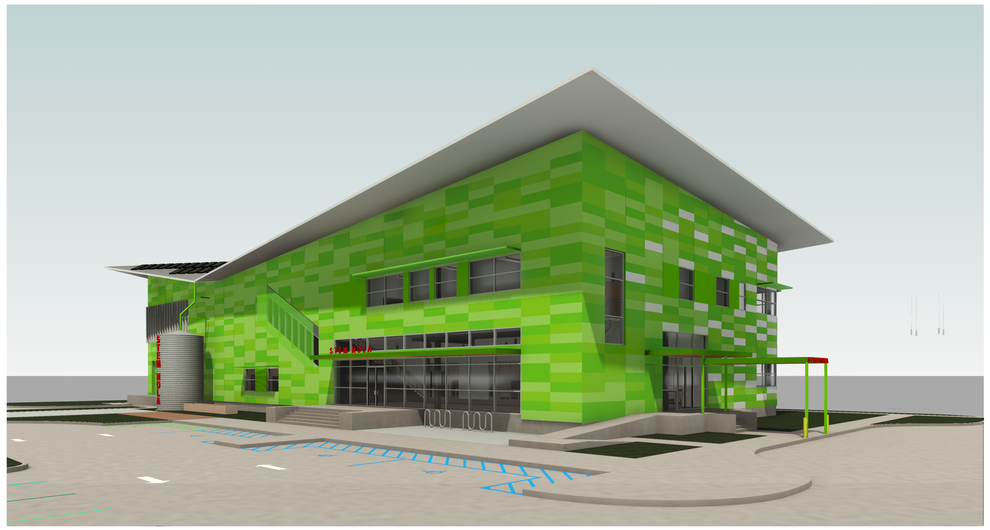
WDG Project No: 2024002

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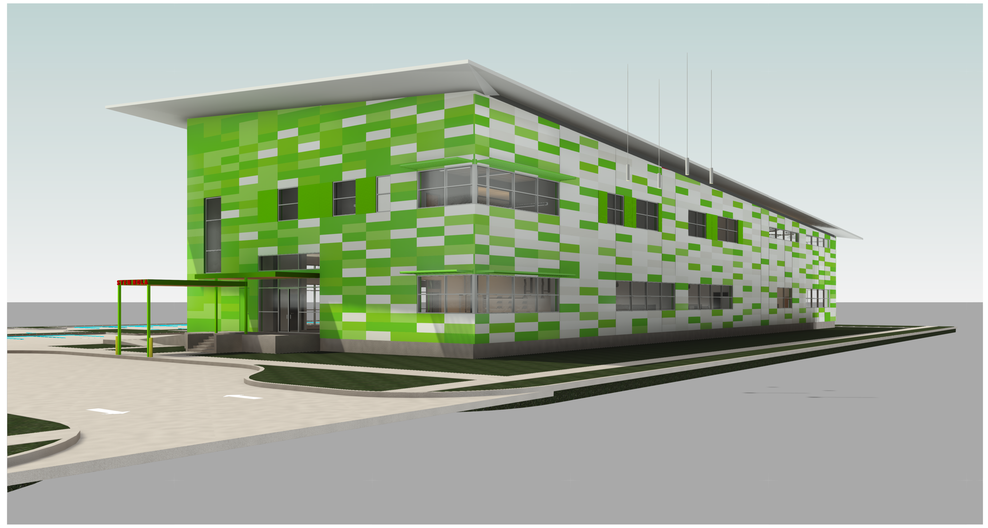
INTERIOR SECTION DETAILS

SHEET NO.

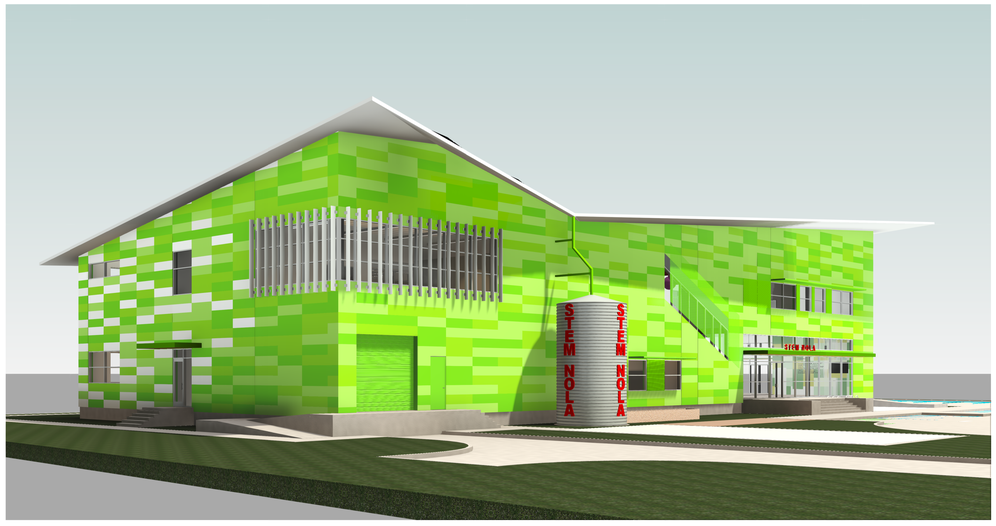
A420



1 A500 SW PERSPECTIVE



2 A500 SE PERSPECTIVE



3 A500 NW PERSPECTIVE



4 A500 NE PERSPECTIVE

WILLARD DESIGN GROUP
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STEM NOLA
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SPECIALIZED STEM
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
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WDG Project No: 2024002

SHEET NAME
AXONS & PERSPECTIVES

SHEET NO. A500



1 A501 LOBBY



2 A501 COLLABORATIVE STAIR



3 A501 COLLABORATIVE STAIR 2ND FL

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6800 PLAZA DRIVE, NEW ORLEANS,LA 70127 MULTI-PURPOSE BUILDING
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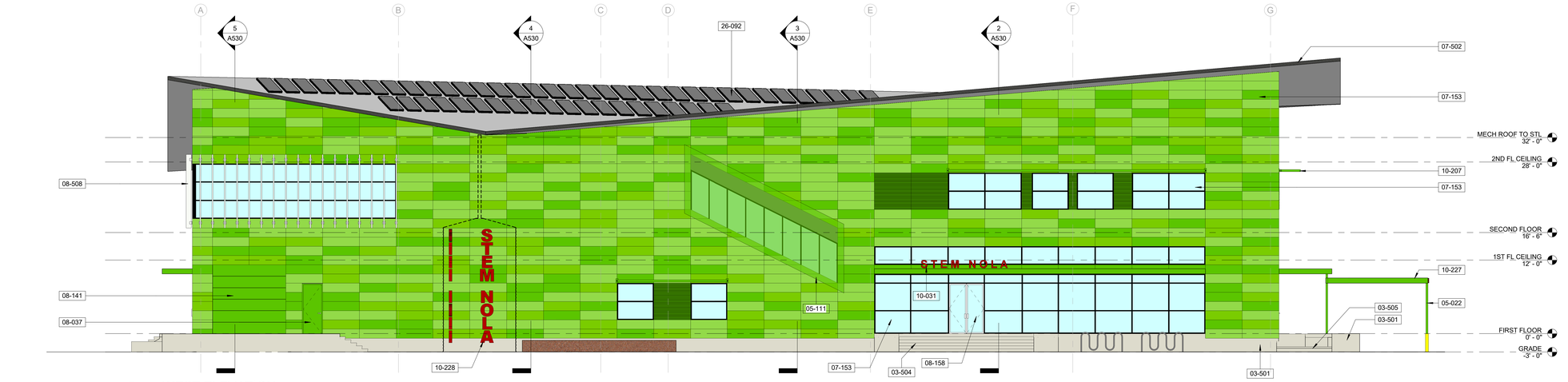
REVISIONS

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WDG Project No: 2024002

SHEET NAME
AXONS & PERSPECTIVES

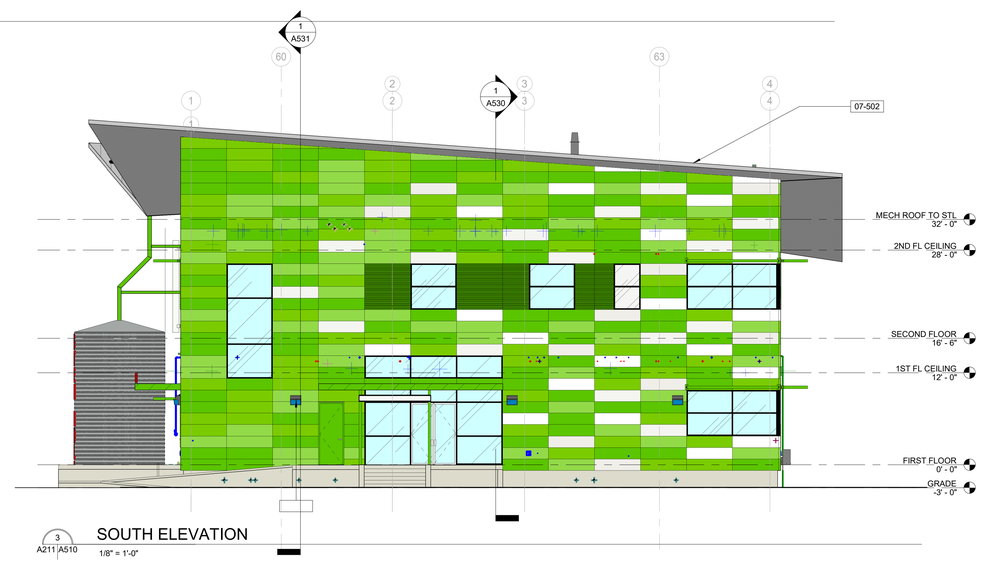
SHEET NO. A501



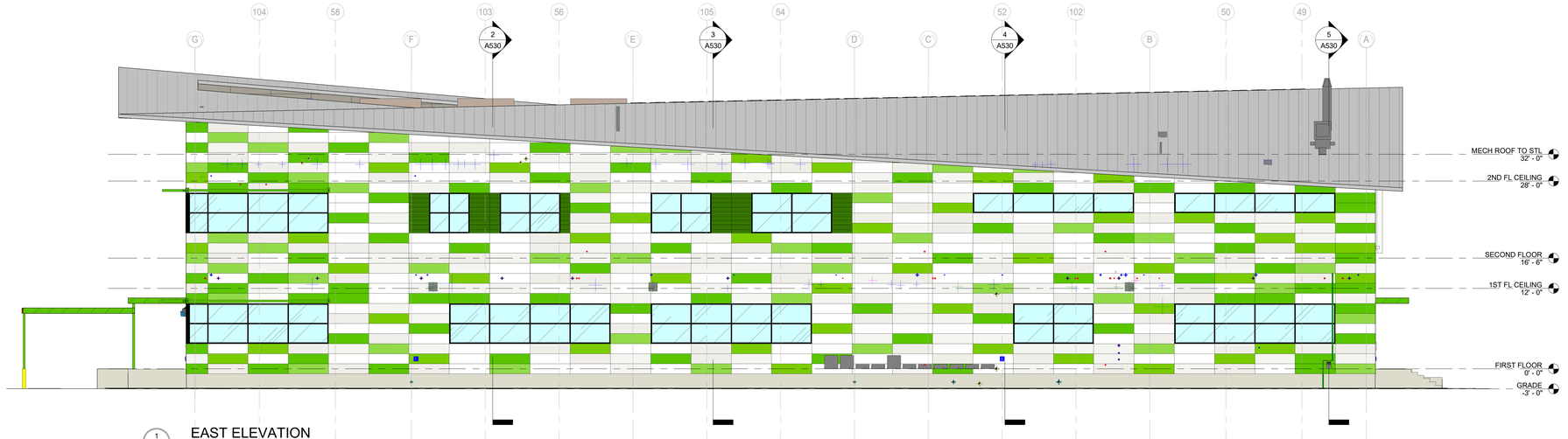
4 A211 A510 WEST ELEVATION
1/8" = 1'-0"



2 A211 A510 NORTH ELEVATION
1/8" = 1'-0"



3 A211 A510 SOUTH ELEVATION
1/8" = 1'-0"



1 A211 A510 EAST ELEVATION
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

03-501	STRUCTURAL CONCRETE SLAB. RE: STRUCTURAL
03-504	CONCRETE EXTERIOR STAIR; RE: STRUCTURAL
03-505	CONCRETE SITE RAMP; RE: CIVIL
05-022	ARCHITECTURALLY-EXPOSED STRUCTURAL ALUMINUM FRAMING [05 14 13]
05-111	ORNAMENTAL METAL GRILLES* [05 77 00]
07-153	FABRICATED FACED PANEL ASSEMBLIES [07 44 63]
07-502	STANDING SEAM METAL ROOFING [076114]
08-037	CUSTOM HOLLOW METAL DOORS AND FRAMES [08 11 13.16]
08-141	SECTIONAL DOORS [08 36 13]
08-158	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS [08 41 13]
08-508	ALUM. LOUVER [08 91 00]
10-031	DIMENSIONAL LETTER SIGNAGE [10 14 19]
10-207	EXTERIOR SPECIALTIES [10 70 00]
10-227	METAL CANOPIES [10 73 16.13]
10-228	FABRIC CANOPIES [10 73 16.23]
22-061	RAINWATER HARVESTING SYSTEM [22 14 53]
22-063	FACILITY STORM-WATER RETENTION TANKS [22 14 63]
26-092	PHOTOVOLTAIC COLLECTORS [26 31 00]

LEGEND

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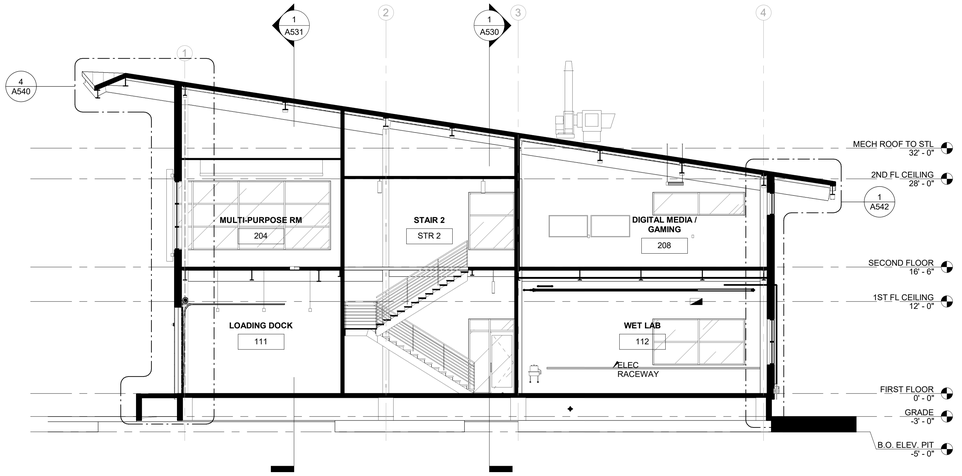
REVISIONS

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WDG Project No: 2024002

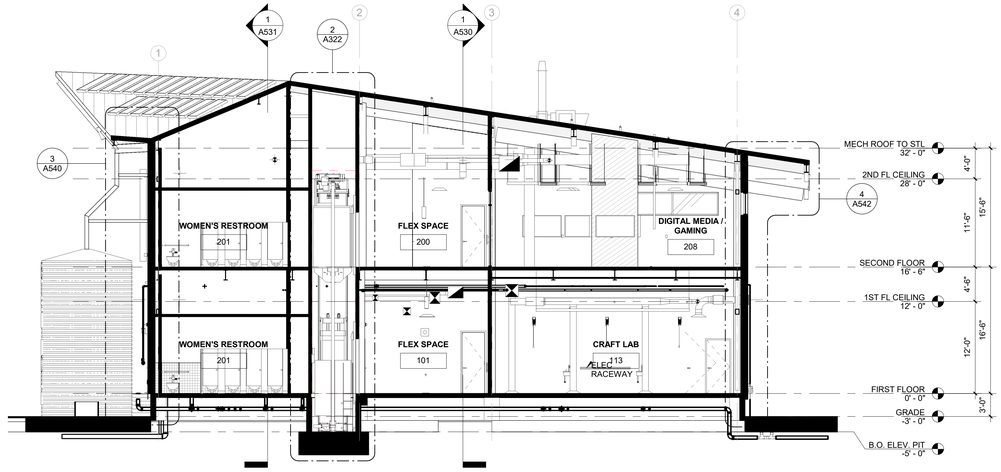
SHEET NAME
EXTERIOR ELEVATIONS

SHEET NO.
A510



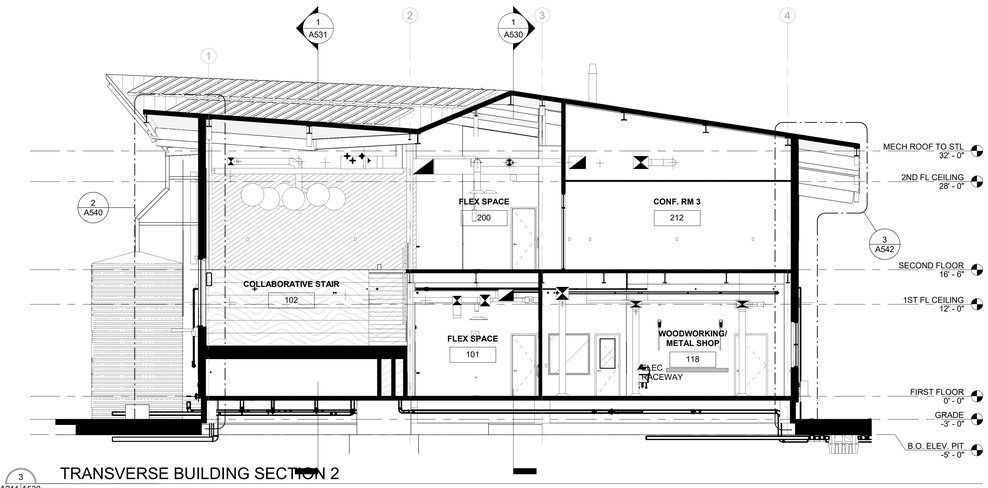
5 A211 A530 TRANSVERSE BUILDING SECTION 4

1/8" = 1'-0"



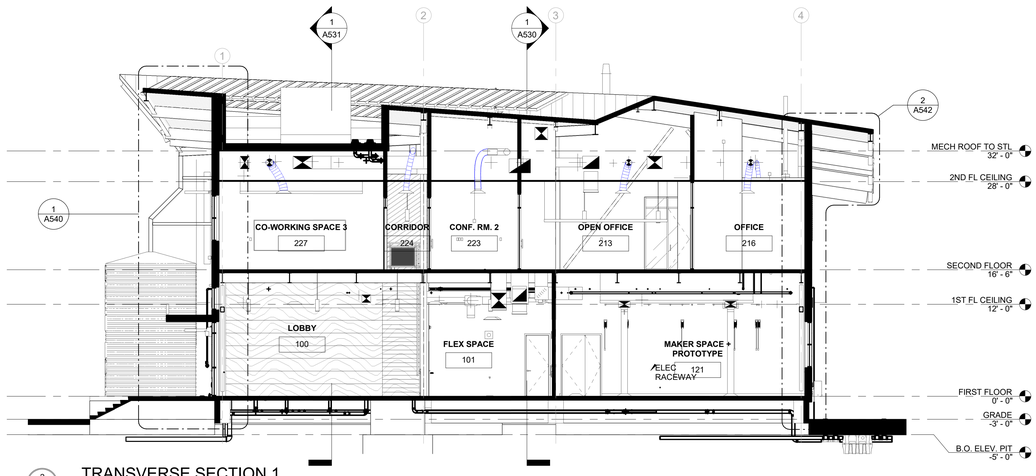
4 A211 A530 TRANSVERSE BUILDING SECTION 3

1/8" = 1'-0"



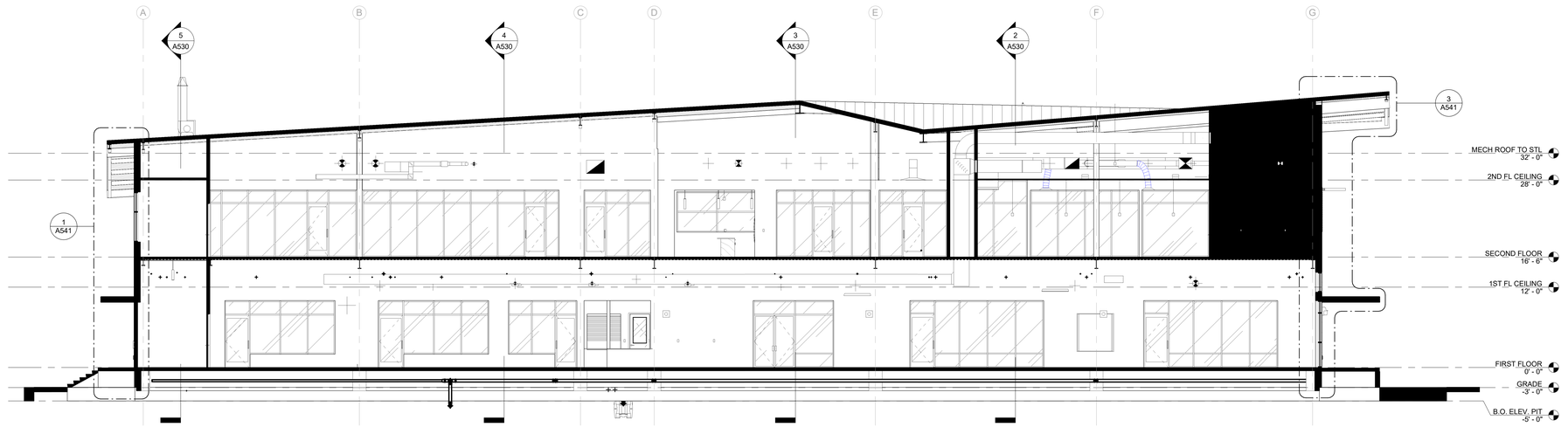
3 A211 A530 TRANSVERSE BUILDING SECTION 2

1/8" = 1'-0"



2 A211 A530 TRANSVERSE SECTION 1

1/8" = 1'-0"



1 A211 A530 LONGITUDINAL BUILDING SECTION 1

1/8" = 1'-0"

WILLARD DESIGN GROUP
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50% DESIGN DEVELOPMENT

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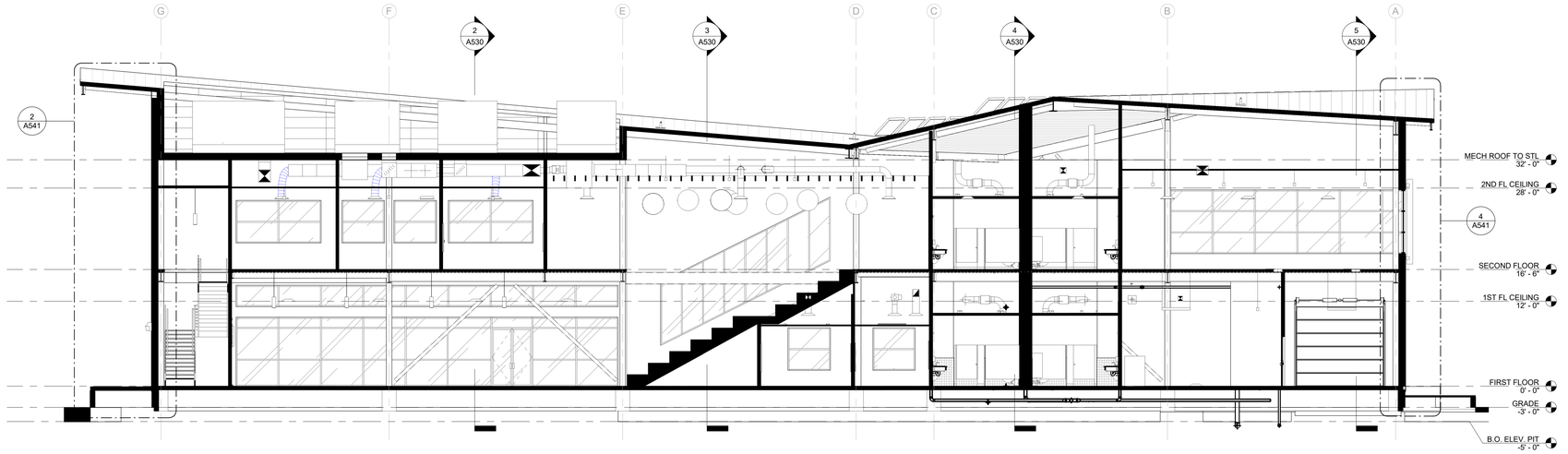
WDG Project No: 2024002

SHEET NAME

BUILDING SECTIONS

SHEET NO.

A530



1
A211 | A531
LONGITUDINAL BUILDING SECTION 2

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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50% DESIGN DEVELOPMENT

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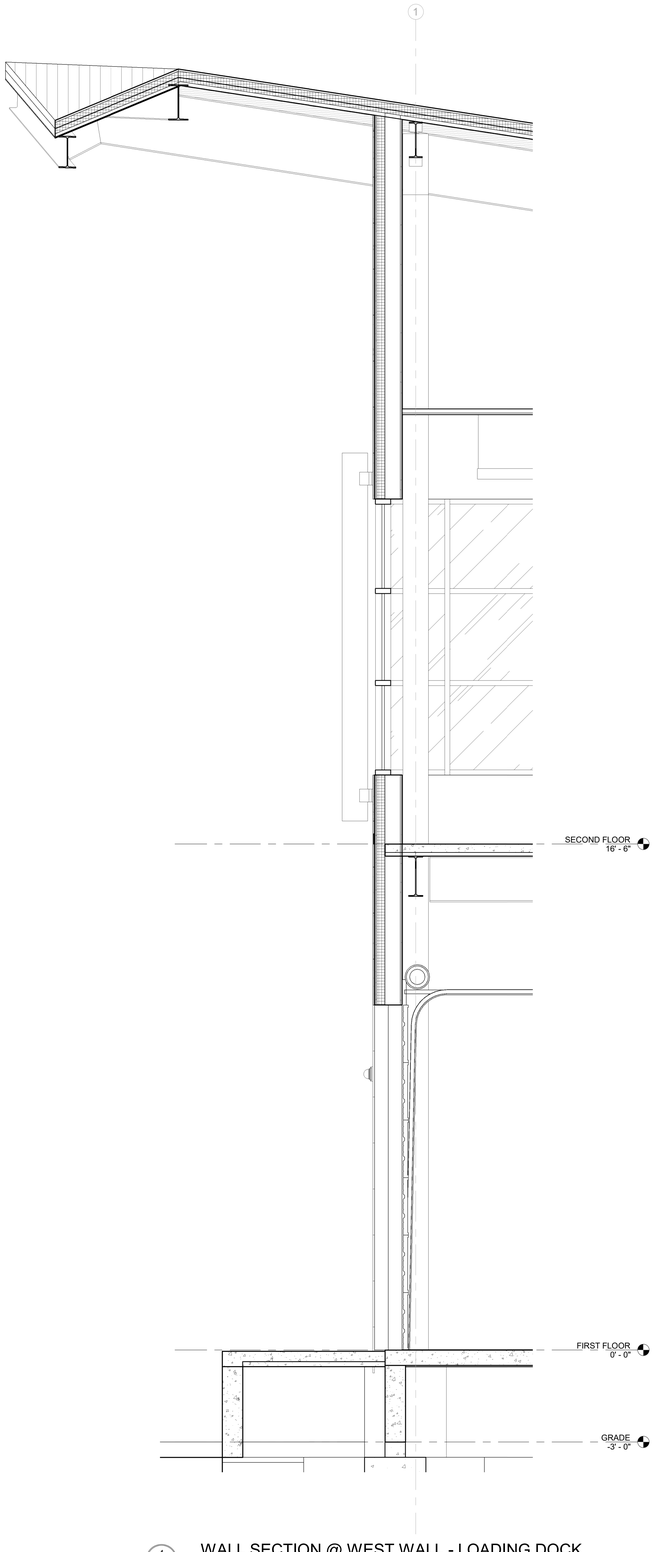
WDG Project No: 2024002

SHEET NAME

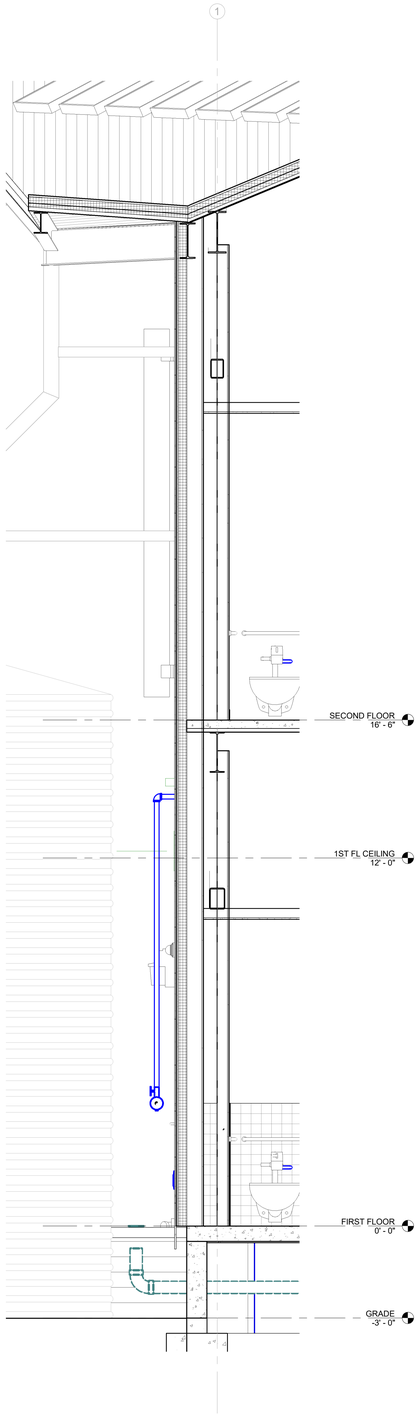
BUILDING SECTIONS

SHEET NO.

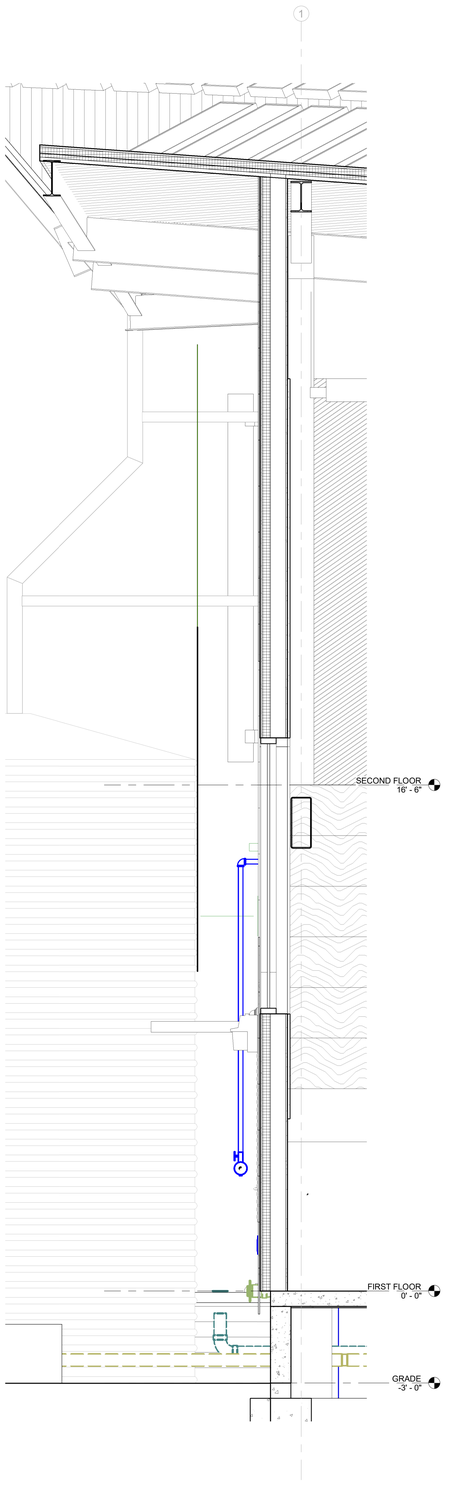
A531



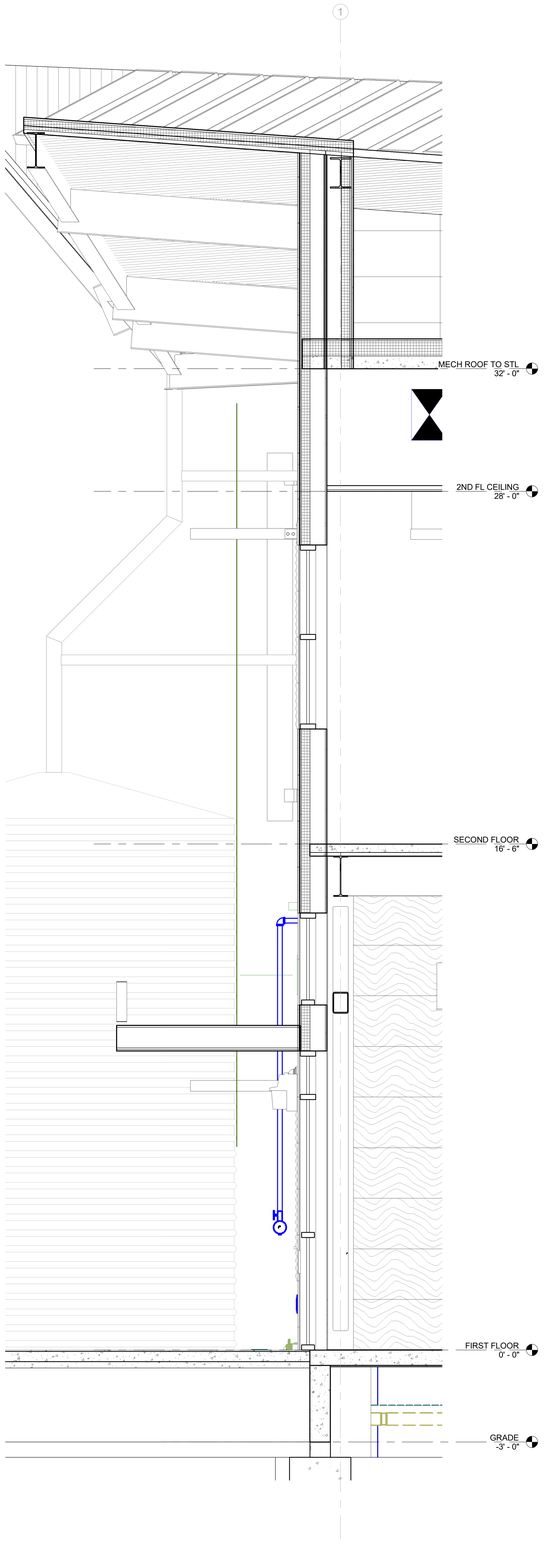
4 A530 A540 WALL SECTION @ WEST WALL - LOADING DOCK
1/2" = 1'-0"



3 A530 A540 WALL SECTION @ WEST WALL - TOILET RMS
1/2" = 1'-0"



2 A530 A540 WALL SECTION @ WEST WALL - COLLAB STAIR
1/2" = 1'-0"



1 A530 A540 WALL SECTION @ WEST WALL - MAIN ENTRANCE
1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR

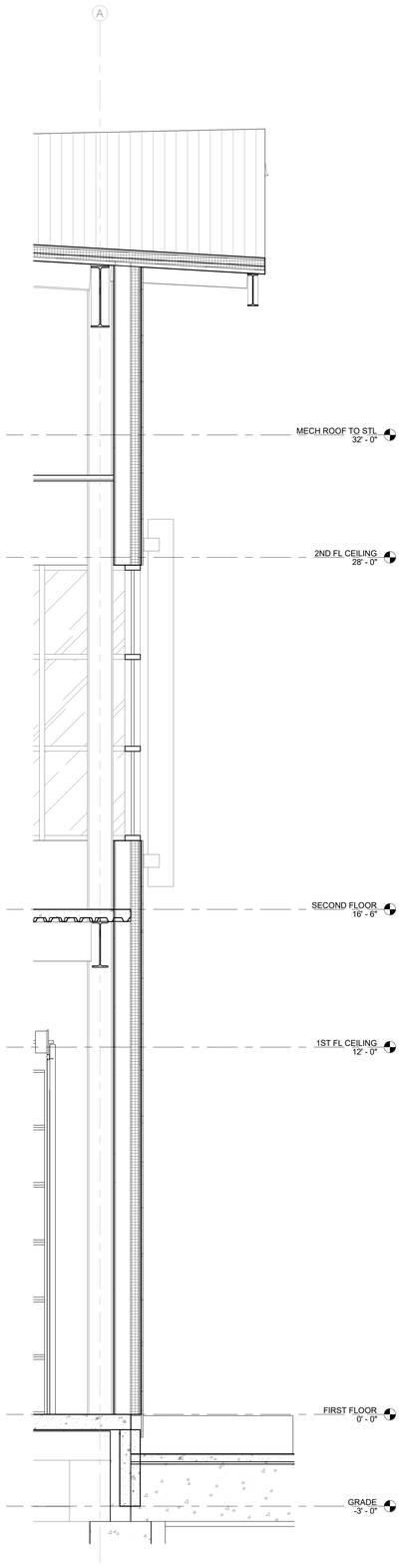
REVISIONS

NOT FOR CONSTRUCTION

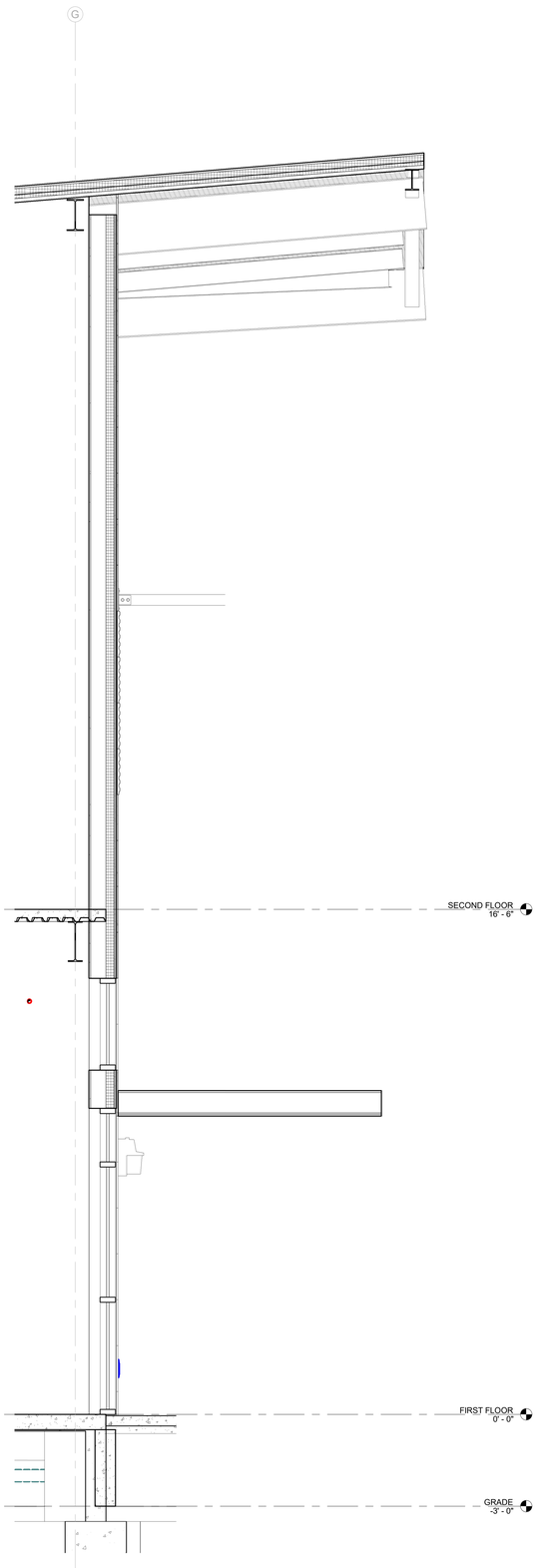
WDG Project No: 2024002

SHEET NAME
WALL SECTIONS

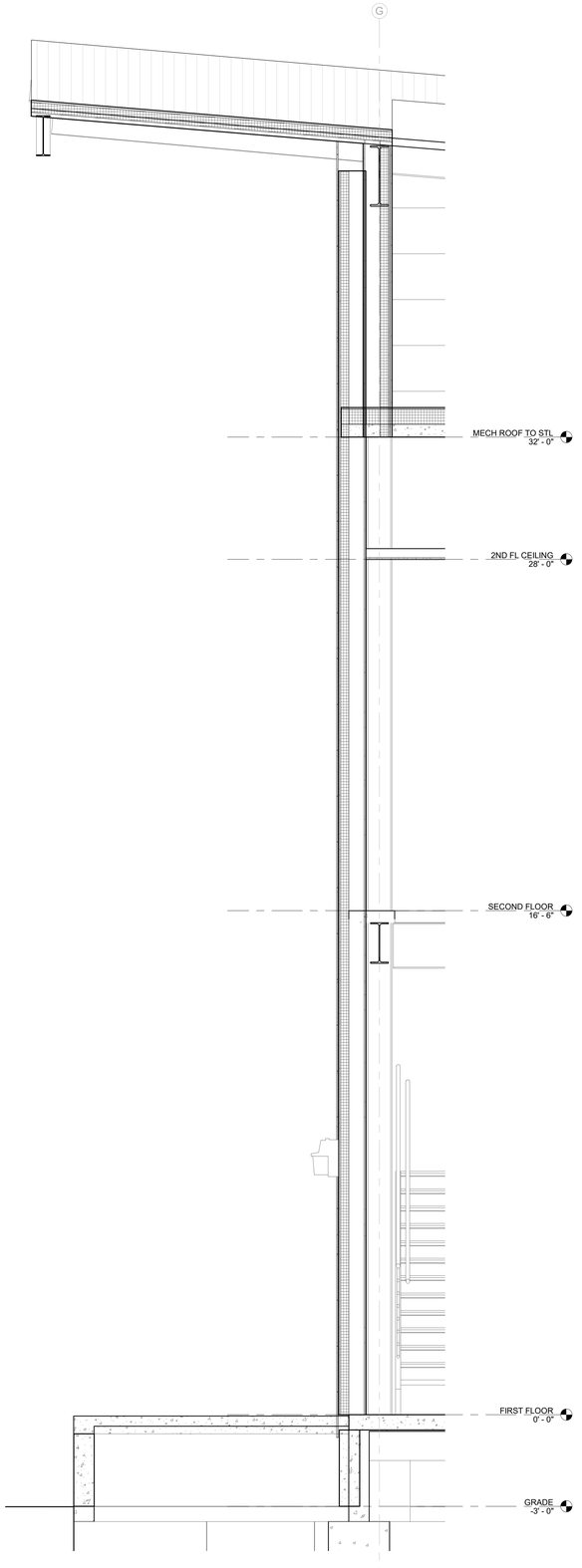
SHEET NO. A540



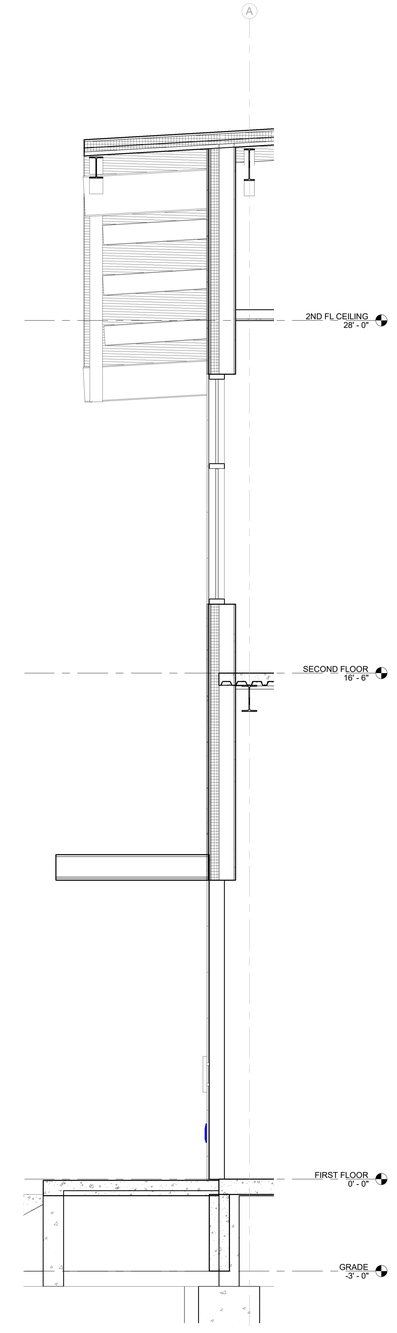
4 A531 A541 WALL SECTION @ NORTH WALL - LOADING DOCK
1/2" = 1'-0"



3 A530 A541 WALL SECTION @ NORTH ENTRANCE
1/2" = 1'-0"



2 A531 A541 WALL SECTION @ SOUTH WALL - STAIR 1
1/2" = 1'-0"



1 A530 A541 WALL SECTION @ SOUTH ENTRANCE
1/2" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM NOLA
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR

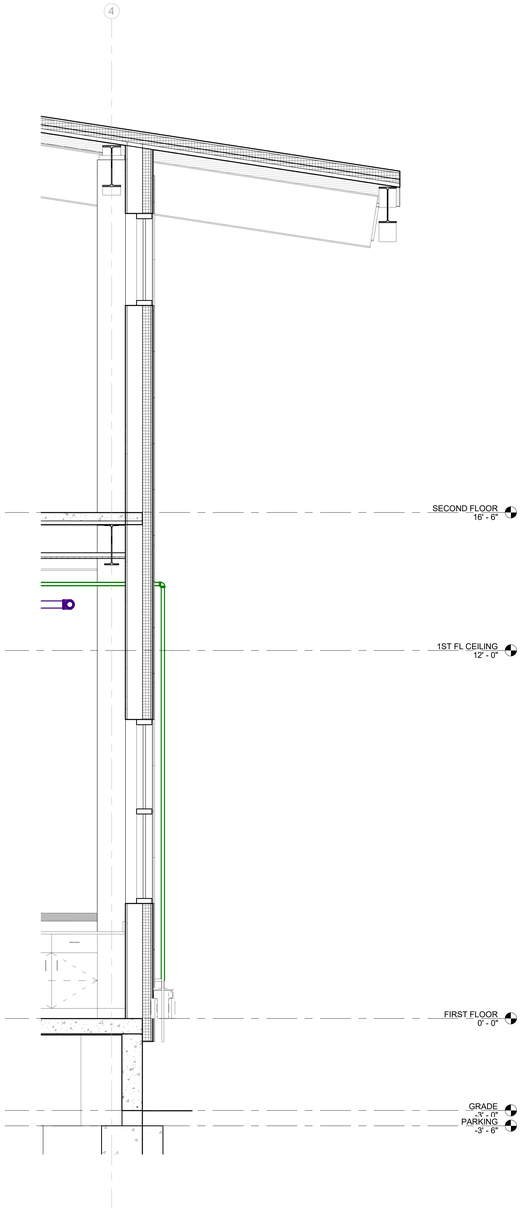
REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

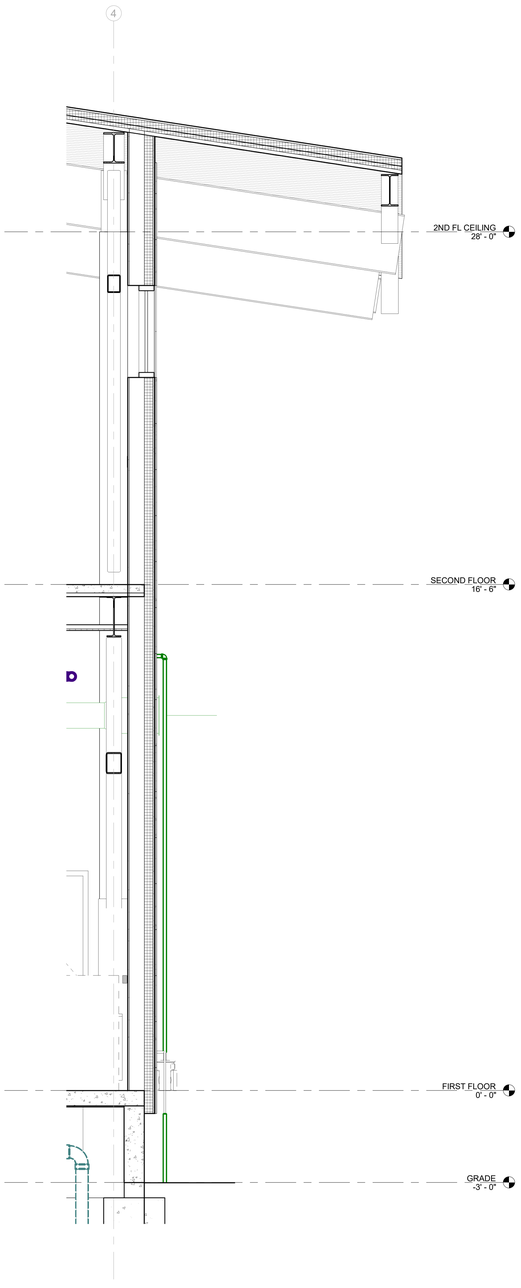
SHEET NAME
WALL SECTIONS

SHEET NO.
A541



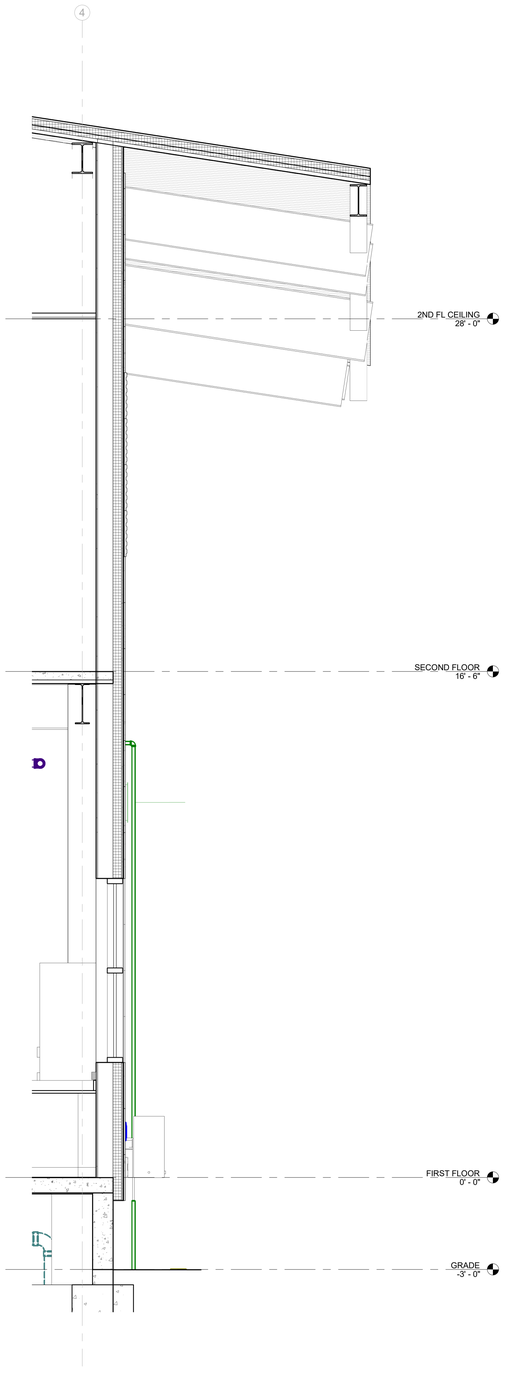
1 A530 A542 WALL SECTION @ EAST WALL - WET LAB

1/2" = 1'-0"



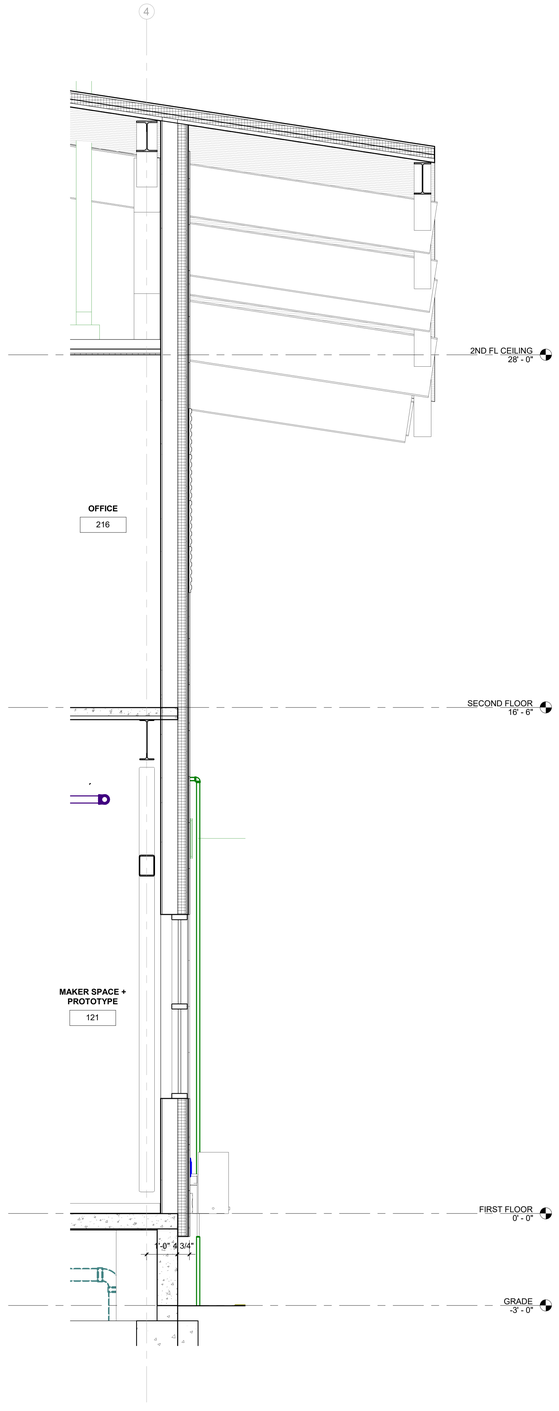
4 A530 A542 WALL SECTION @ EAST WALL - CRAFT LAB

1/2" = 1'-0"



3 A530 A542 WALL SECTION @ EAST WALL - WOODWORKING

1/2" = 1'-0"



2 A530 A542 WALL SECTION @ EAST WALL - MAKER SPC

1/2" = 1'-0"

WILLARD DESIGN GROUP
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STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR

REVISIONS

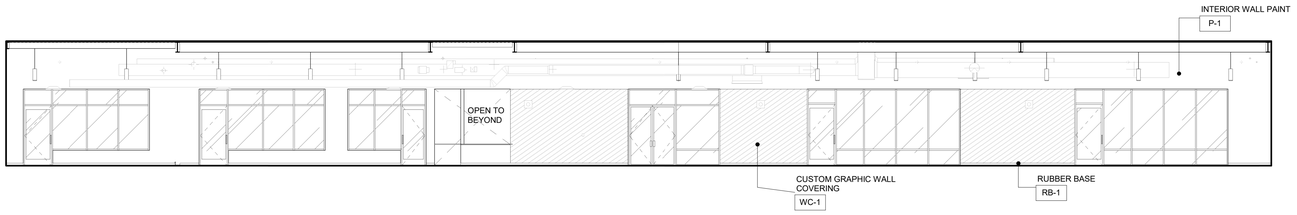
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WDG Project No: 2024002

SHEET NAME

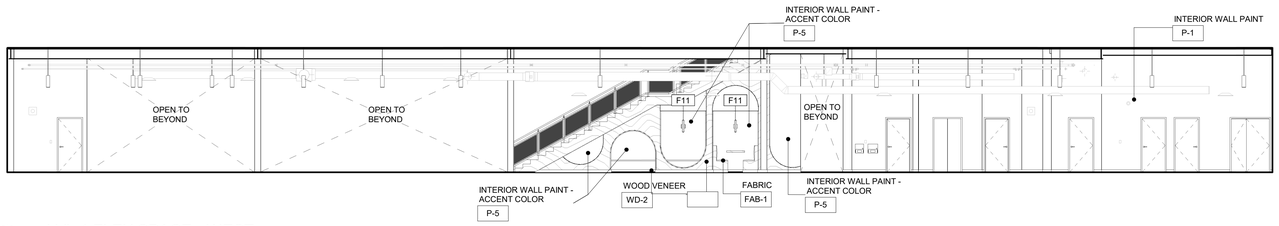
WALL SECTIONS

SHEET NO. A542



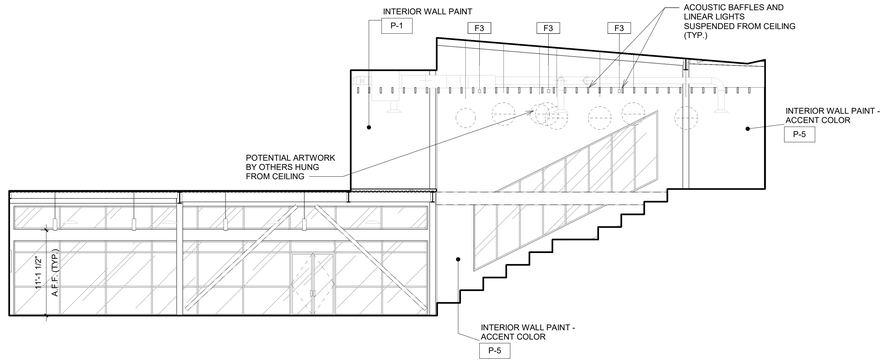
2 A211 A700 LVL 1 FLEX SPACE - EAST

1/8" = 1'-0"



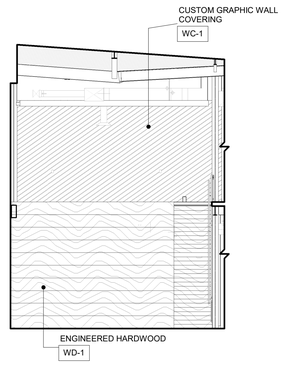
3 A211 A700 LVL 1 FLEX SPACE - WEST

1/8" = 1'-0"



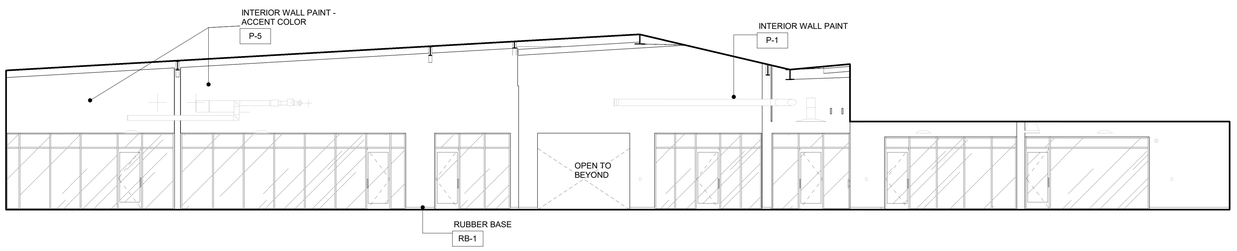
1 A211 A700 COLLABORATIVE STAIR - WEST

1/8" = 1'-0"



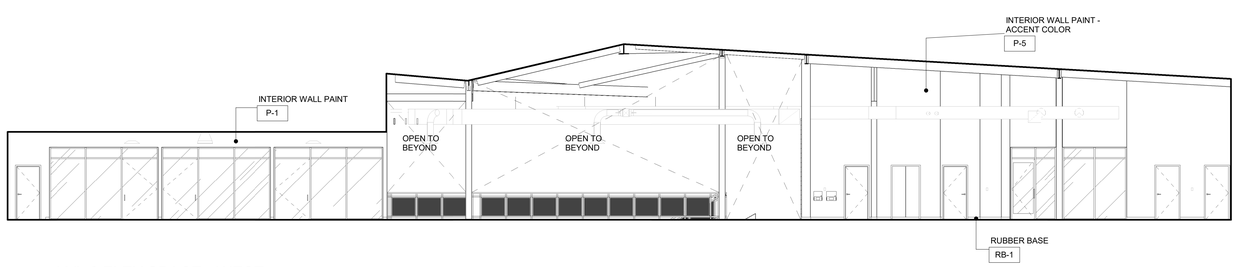
4 A211 A700 COLLABORATIVE STAIR - NORTH

1/8" = 1'-0"



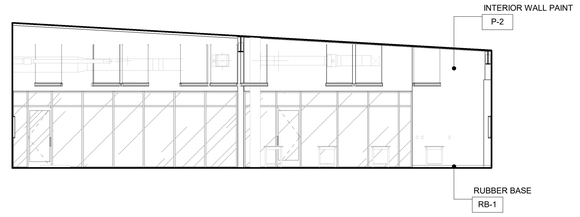
5 A211 A700 LVL 2 FLEX SPACE - EAST

1/8" = 1'-0"



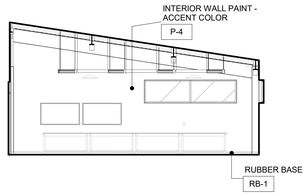
6 A211 A700 LVL 2 FLEX SPACE - WEST

1/8" = 1'-0"



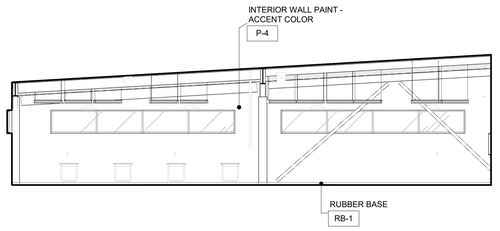
7 A211 A700 DIGITAL - EAST

1/8" = 1'-0"



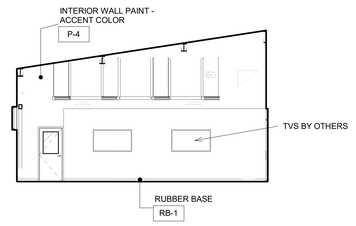
8 A211 A700 DIGITAL - NORTH

1/8" = 1'-0"



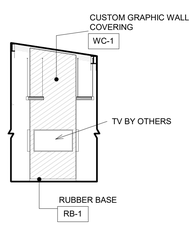
9 A211 A700 DIGITAL - WEST

1/8" = 1'-0"



10 A211 A700 DIGITAL - SOUTH

1/8" = 1'-0"



11 A211 A700 TV TOWER - TYP

1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
studio kiro

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

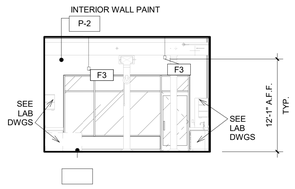
NOT FOR CONSTRUCTION

WDG Project No: 2024002

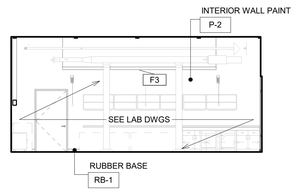
SHEET NAME

INTERIOR ELEVATIONS

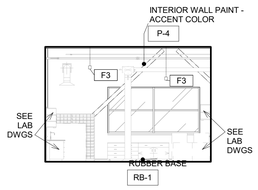
SHEET NO. A700



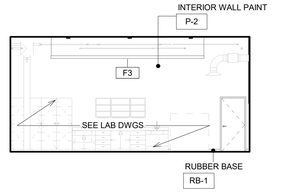
14 A211 A701 CRAFT LAB - WEST
1/8" = 1'-0"



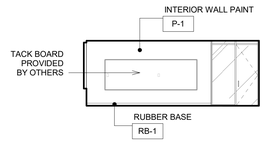
15 A211 A701 CRAFT LAB - SOUTH
1/8" = 1'-0"



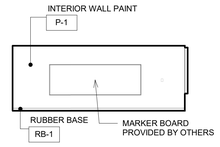
16 A211 A701 CRAFT LAB - EAST
1/8" = 1'-0"



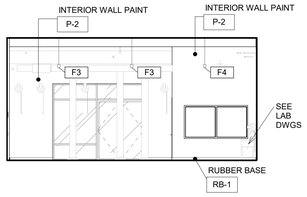
13 A211 A701 CRAFT LAB - NORTH
1/8" = 1'-0"



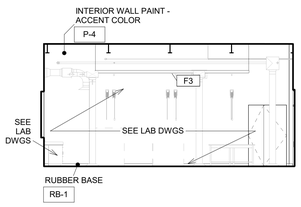
17 A211 A701 LVL 1 COWORKING 1 - NORTH
1/8" = 1'-0"



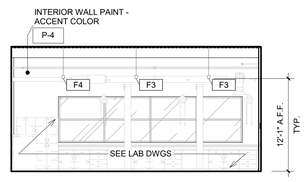
19 A211 A701 LVL 1 COWORKING 1 - SOUTH
1/8" = 1'-0"



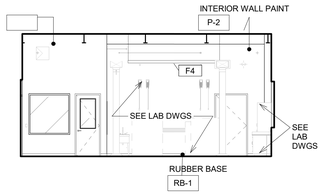
12 A211 A701 WOODWORKING - WEST
1/8" = 1'-0"



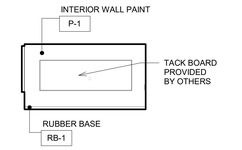
11 A211 A701 WOODWORKING - SOUTH
1/8" = 1'-0"



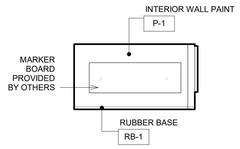
10 A211 A701 WOODWORKING - EAST
1/8" = 1'-0"



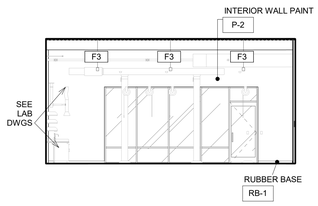
9 A211 A701 WOODWORKING - NORTH
1/8" = 1'-0"



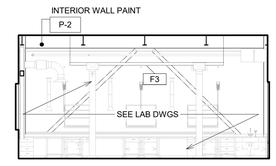
20 A211 A701 LVL 1 COWORKING 2 - NORTH
1/8" = 1'-0"



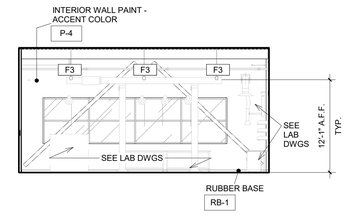
22 A211 A701 LVL 1 COWORKING 2 - SOUTH
1/8" = 1'-0"



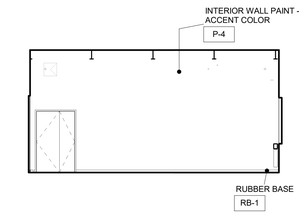
8 A211 A701 MAKERSPACE - WEST
1/8" = 1'-0"



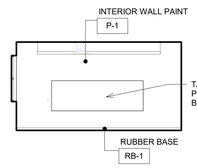
7 A211 A701 MAKERSPACE - SOUTH
1/8" = 1'-0"



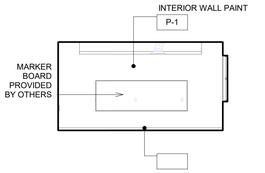
6 A211 A701 MAKERSPACE - EAST
1/8" = 1'-0"



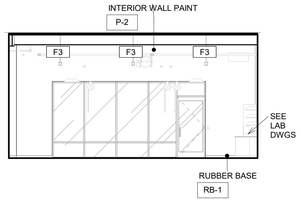
5 A211 A701 MAKERSPACE - NORTH
1/8" = 1'-0"



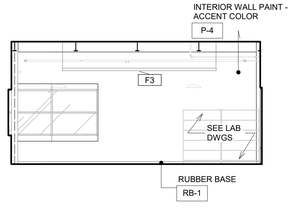
18 A211 A701 LVL 2 COWORKING - NORTH
1/8" = 1'-0"



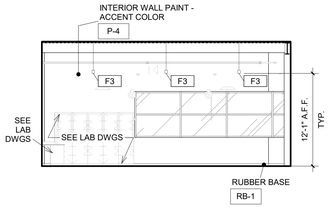
21 A211 A701 LVL 2 COWORKING - SOUTH
1/8" = 1'-0"



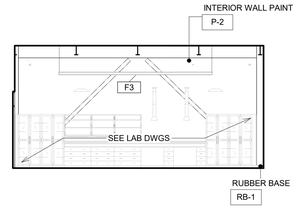
4 A211 A701 ROBOTICS - WEST
1/8" = 1'-0"



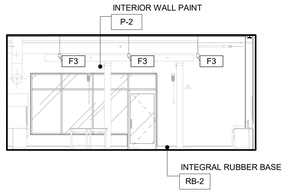
3 A211 A701 ROBOTICS - SOUTH
1/8" = 1'-0"



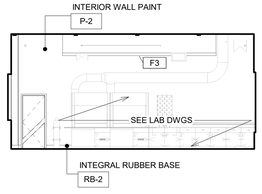
2 A211 A701 ROBOTICS - EAST
1/8" = 1'-0"



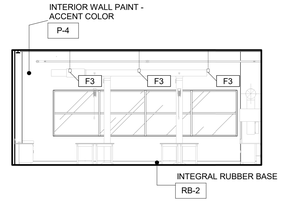
1 A211 A701 ROBOTICS - NORTH
1/8" = 1'-0"



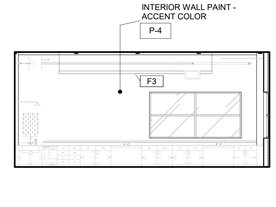
25 A211 A701 WET LAB - WEST
1/8" = 1'-0"



24 A211 A701 WET LAB - SOUTH
1/8" = 1'-0"



23 A211 A701 WET LAB - EAST
1/8" = 1'-0"



26 A211 A701 WET LAB - NORTH
1/8" = 1'-0"

WILLARD DESIGN GROUP
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studio kiro

SPECIALIZED STEM NOLA
D STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

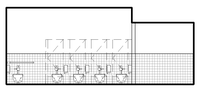
REVISIONS

NOT FOR CONSTRUCTION

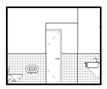
WDG Project No: 2024002

SHEET NAME
INTERIOR ELEVATIONS

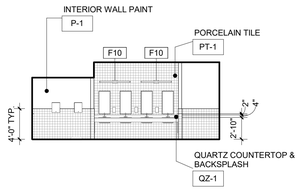
SHEET NO.
A701



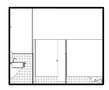
1 A300 A702 WOMENS RESTROOM - NORTH
1/8" = 1'-0"



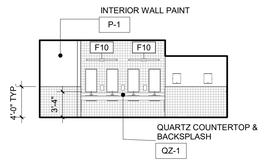
2 A300 A702 WOMENS RESTROOM - EAST
1/8" = 1'-0"



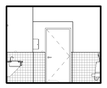
3 A300 A702 WOMENS RESTROOM - SOUTH
1/8" = 1'-0"



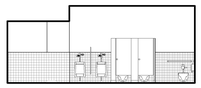
4 A300 A702 WOMENS RESTROOM - WEST
1/8" = 1'-0"



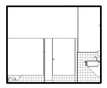
5 A300 A702 MENS RESTROOM - NORTH
1/8" = 1'-0"



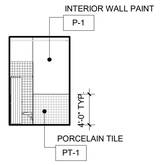
6 A300 A702 MENS RESTROOM - EAST
1/8" = 1'-0"



7 A300 A702 MENS RESTROOM - SOUTH
1/8" = 1'-0"



8 A300 A702 MENS RESTROOM - WEST
1/8" = 1'-0"



9 A300 A702 PVT TLT RM - NORTH
1/8" = 1'-0"



14 A300 A702 PVT TLT RM - EAST
1/8" = 1'-0"



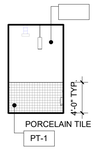
15 A300 A702 PVT TLT RM - SOUTH
1/8" = 1'-0"



16 A300 A702 PVT TLT RM - WEST
1/8" = 1'-0"



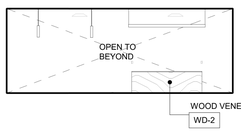
22 A300 A702 LVL 2 TOILET - WEST
1/8" = 1'-0"



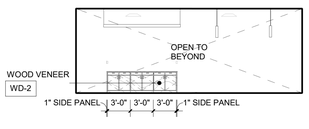
21 A300 A702 LVL 2 TOILET - NORTH
1/8" = 1'-0"



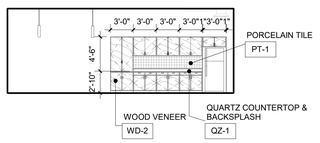
20 A300 A702 LVL 2 TOILET - EAST
1/8" = 1'-0"



19 A300 A702 KITCHENETTE - ISLAND
1/8" = 1'-0"



18 A300 A702 KITCHENETTE - NORTH
1/8" = 1'-0"



17 A300 A702 KITHCENETTE - SOUTH
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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REVISIONS

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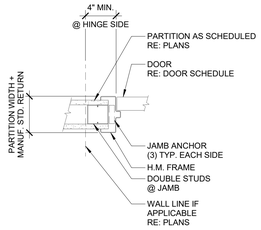
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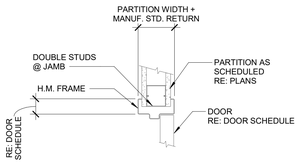
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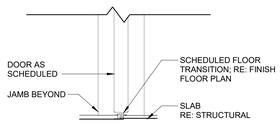
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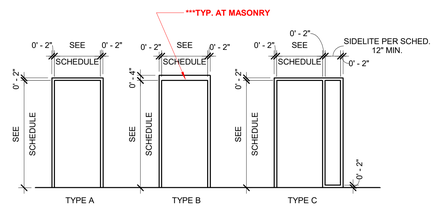
DOOR SCHEDULE

DOOR NO.	ROOM	WIDTH	HEIGHT	DOOR			FRAME			DETAILS			SIDELITE WIDTH	FIRE RATING	HARDWARE SET	REMARKS
				TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL				
FIRST FLOOR																
	FLEX SPACE	5' - 10"	8' - 1"	FF												
	STAIR 2	3' - 0"	8' - 1"	F												
	MAKER SPACE + PROTOTYPE	3' - 6"	8' - 0"	F												
	LOBBY	5' - 8"	8' - 2"	FF												
	CRAFT LAB	3' - 6"	7' - 10"	F												
	CONF. RM. 1	3' - 0"	7' - 10"	F												
136	STAIR 2	3' - 0"	8' - 0"	A	WD		A	HM								
146	LOADING DOCK	6' - 0"	7' - 0"	AA	WD		A	HM								
147	ELECT. RM.	3' - 0"	7' - 0"	A	WD		A	HM								
160		3' - 0"	8' - 0"	A	HM		A	HM								
161		12' - 0"	11' - 3"													
171	FLEX SPACE	5' - 0"	7' - 0"													
197	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
201	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	WD		A	HM								
202	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
210	CRAFT LAB	4' - 0"	8' - 0"	A	WD		A	HM								
211	SHOP STOR.	4' - 0"	8' - 0"	A	WD		A	HM								
230	CO-WORKING SPACE 2	2' - 5 7/16"	8' - 0"													
231		3' - 0"	8' - 0"	A	HM		A	HM								
232	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
245	WOODWORKING/ METAL SHOP	3' - 0"	8' - 0"	C	WD		A	HM						90MIN		
252	CATERING KITCHEN	3' - 0"	8' - 0"	C	WD		A	HM						90MIN		
261	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
272	FLEX SPACE	2' - 9 11/16"	8' - 0"													
273	MAKER SPACE + PROTOTYPE	5' - 0"	8' - 0"													
282	WET LAB	3' - 0"	7' - 0"	A	WD		A	HM								
295	COMPUTER/ ROBOTICS	3' - 6"	8' - 0"	F												
297	WOODWORKING/ METAL SHOP	6' - 0"	7' - 10"	FF												
300	WET LAB	3' - 6"	7' - 10"	F												
SECOND FLOOR																
	PRIVATE GROUP POD	3' - 0"	8' - 0"	F												
	OPEN OFFICE	3' - 10 1/8"	8' - 0"													
	OPEN OFFICE	2' - 9"	8' - 0"													
	CORRIDOR	4' - 6 1/4"	8' - 0"													
	OPEN OFFICE	3' - 0"	7' - 10"	F												
	FLEX SPACE	3' - 6"	8' - 0"	F												
	DIGITAL MEDIA / GAMING	3' - 0"	8' - 0"	F												
	FLEX SPACE	3' - 0"	7' - 10"	F												
	FLEX SPACE	3' - 0"	8' - 0"	F												
	OPEN OFFICE	3' - 0"	8' - 0"	F												
	CONF. RM. 2	3' - 0"	8' - 0"	F												
	FLEX SPACE	3' - 0"	8' - 0"	F												
145	STAIR 1	3' - 0"	7' - 0"	A	WD		A	HM								
153	STORAGE	3' - 0"	7' - 0"	A	WD		A	HM								
157	ELECT. RM.	3' - 0"	7' - 0"	A	WD		A	HM								
164	PRIVATE TOILET RM	3' - 0"	7' - 0"	A	WD		A	HM								
165	VESTIBULE	3' - 0"	7' - 0"	A	WD		A	HM								
193	CO-WORKING SPACE 4	4' - 6 1/4"	8' - 0"													
194	CO-WORKING SPACE 3	4' - 6 1/4"	8' - 0"													
196	STAIR 2	3' - 0"	8' - 0"	A	WD		A	HM								
200	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
204	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A	WD		A	HM								
205	FLEX SPACE	3' - 0"	7' - 0"	A	WD		A	HM								
206	STOR.	6' - 0"	7' - 0"	AA	WD		A	HM								
207	CRAFT STOR.	3' - 0"	7' - 0"	C	WD		A	HM						90MIN		
259	CORRIDOR	3' - 0"	7' - 0"	A	WD		A	HM								
279	CORRIDOR	3' - 0"	8' - 0"	F												
283		3' - 0"	7' - 0"	A	WD		A	HM								





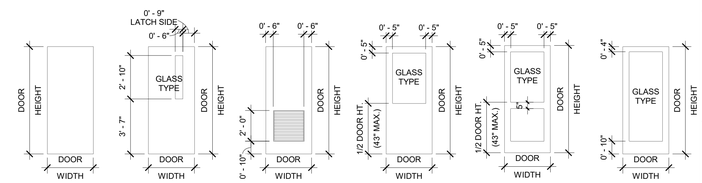




ADA STANDARDS
(404.2.10) DOOR SURFACES W/IN 10" A.F.F. SHALL BE SMOOTH ON PUSH SIDE FULL WIDTH OF DOOR
(404.2.11) VISION LITES SHALL BE 43" MAX. A.F.F.

DOOR CRITERIA AND GENERAL NOTES:

1. ALL DOOR TYPES LISTED IN DOOR SCHEDULE ARE FOUND IN THE SPECIFICATION DIVISION 08.
2. THE FOLLOWING EXPLANATION APPLIES TO THE DOOR SCHEDULE.
   - A. DOOR NUMBER
     (1) THE DOOR NUMBER SHALL BE THE SAME AS THE ROOM SERVED.
     (2) IF MORE THAN ONE DOOR SERVES THE SAME ROOM, EACH DOOR WILL BE ASSIGNED AN IDENTIFICATION NUMBER CONSISTING OF THE ROOM NUMBER PLUS AN ALPHABETICAL SUFFIX. THE NUMBER OF A DOOR COMMUNICATING BETWEEN TWO ROOMS SHALL BE DETERMINED BY THE ROOM IN WHICH IT SWINGS.
   - B. DOOR SIZE
     THE WIDTH AND HEIGHT OF THE DOOR APPEARS IN THE DOOR SCHEDULE IN FEET AND INCHES. THE DOOR SHALL BE 1 3/4" FOR HOLLOW METAL AND WOOD DOORS, UNLESS NOTED OTHERWISE.
   - C. DOOR TYPE
     REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR DOOR TYPES.
   - D. FRAME TYPES
     REFER TO THE DOOR SCHEDULE AND THIS SHEET FOR FRAME TYPES.
   - E. HARDWARE GROUPS
     REFER TO THE DOOR SCHEDULE, HARDWARE SPECIFICATION IN SECTION 08 71 01 AND THIS SHEET FOR HARDWARE GROUPS.
   - F. DETAILS
     TYPICAL DETAILS REFERENCED ARE LOCATED ON SHEET
3. AT ALL TYPES OF EXTERIOR DOORS THAT SWING OUT, DOOR HEAD SHALL BE FLUSH AND SEALED



FLUSH
A SINGLE
AA PAIR

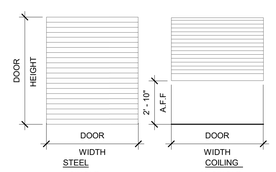
W/ NARROW LITE
B SINGLE
BB PAIR

W/ LOUVER
C SINGLE
CC PAIR

W/ 1/2 LITE
D SINGLE
DD PAIR

W/ 2 LITES
E SINGLE
EE PAIR

W/ FULL LITE
F SINGLE
FF PAIR



STEEL
J SINGLE

COILING
K SINGLE

DOOR MATERIAL	DESCRIPTION
AL	ALUMINUM
HM	HOLLOW METAL
WD	SOLID CORE WOOD

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WDG Project No: 2024002

SHEET NAME

DOOR SCHEDULES & DETAILS

SHEET NO. A800

INTERIOR STOREFRONT / CURTAIN WALL SCHEDULE				
MARK	WIDTH (R.O)	HEIGHT (R.O)	DESCRIPTION	REMARKS

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SHEET NAME

INTERIOR OPENINGS SCHEDULE & ELEVATIONS

SHEET NO.

A810

EXTERIOR STOREFRONT / CURTAIN WALL SCHEDULE

MARK	DESCRIPTION	HEIGHT	WIDTH	AREA	TYPE
EX-1		6' - 0"	12' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	12' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	11' - 11 5/16"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	12' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		3' - 0"	12' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		9' - 9"	6' - 0"	59 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		9' - 0"	19' - 10 1/8"	179 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	24' - 0"	144 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	24' - 0"	144 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	24' - 0"	144 SF	Exterior - Storefront_No fixed mullions
EX-1		3' - 0"	24' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		3' - 0"	24' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	9' - 0"	54 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	9' - 0"	54 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	20' - 8 1/2"	124 SF	Exterior - Storefront_No fixed mullions
EX-1		15' - 0"	6' - 0"	90 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	3' - 6"	21 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	11' - 11 5/16"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	20' - 8 1/2"	124 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	12' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		9' - 0"	32' - 11 1/2"	297 SF	Exterior - Storefront_No fixed mullions
EX-1		7' - 6"	6' - 0"	45 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		5' - 0 5/8"	31' - 9 1/4"	216 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	12' - 0"	72 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	6' - 0"	36 SF	Exterior - Storefront_No fixed mullions
EX-1		6' - 0"	3' - 0"	18 SF	Exterior - Storefront_No fixed mullions
Grand total: 32				2648 SF	

GENERAL NOTES

SHEET NOTES

LEGEND

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SHEET NAME

EXTERIOR OPENINGS SCHEDULE & ELEVATIONS

SHEET NO. A820

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH
TA-1	TOILET TISSUE DISPENSER	BOBRICK	B-2892	
TA-2	TOWEL DISPENSER	BOBRICK	B-2974	
TA-3	SOAP DISPENSER	BOBRICK	B-2012	
TA-4	ADA GRAB BAR - 42"	BOBRICK	BOBRICK/BRADLEY	
TA-5	ADA GRAB BAR - 36"	BOBRICK	BOBRICK/BRADLEY	
TA-6	BATHROOM MIRROR	BOBRICK	B-290	

WINDOW SHADE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	FINISH
WS-1	MANUAL ROLLER SHADE			
WS-2	MANUAL ROLLER SHADE - BLACKOUT			

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
100	LOBBY	CONC	RB-1	P-1	EXPOSED DECK	
101	FLEX SPACE	CONC	RB-1	P-1	EXPOSED DECK	
102	COLLABORATIVE STAIR	CONC	RB-1	P-1	EXPOSED DECK, ACST-1	
103	CO-WORKING SPACE 1	CPT-1	RB-1	P-1	EXPOSED DECK	WS-1
104	CO-WORKING SPACE 2	CPT-1	RB-1	P-1	EXPOSED DECK	WS-1
107	STORAGE	CONC	RB-1	P-1	EXPOSED DECK	
107	JAN. CLO.	CONC	RB-1	P-1	EXPOSED DECK	
108	ELECT. RM.	CONC	RB-1	P-1	EXPOSED DECK	
109	IT RM.	CONC	RB-1	P-1	EXPOSED DECK	
110	SPRINKLER RM.	CONC	RB-1	P-1	EXPOSED DECK	
111	LOADING DOCK	CONC	RB-1	P-1	EXPOSED DECK	
112	WET LAB	RF-1	RB-2	P-2	ACT-2	WS-1. WC-1, SEE INT. ELEVATIONS
113	CRAFT LAB	RF-1	RB-1	P-2	ACT-2	WS-1. WC-1, SEE INT. ELEVATIONS
114	CRAFT STOR.	RF-1	RB-1	P-2	ACT-2	
115	CONF. RM. 1	CPT-1	RB-1	P-1	ACT-1	WS-1
116	SERVING	PT-1	RB-1	FRP-1	ACT-3	
117	CATERING KITCHEN	PT-1	RB-1	FRP-1	ACT-3	
118	WOODWORKING/ METAL SHOP	CONC	RB-1	P-2	EXPOSED DECK	WS-1.WC-1, SEE INT. ELEVATIONS
119	SHOP OFFICE	CONC	RB-1	P-2	ACT-1	WS-1
120	SHOP STOR.	CONC	RB-1	P-2	EXPOSED DECK	
121	MAKER SPACE + PROTOTYPE	CONC	RB-1	P-2	EXPOSED DECK	WS-2. WC-1, SEE INT. ELEVATIONS
122	COMPUTER/ ROBOTICS	CONC	RB-1	P-2	EXPOSED DECK	WS-2. WC-1, SEE INT. ELEVATIONS
200	FLEX SPACE	CONC	RB-1	P-1	EXPOSED DECK	
201	WOMEN'S RESTROOM	PT-1		P-1, PT-1	PTD. GYP - P-3	
202	MEN'S RESTROOM	PT-1		P-1, PT-1	PTD. GYP - P-3	
204	MULTI-PURPOSE RM	CPT-1	RB-1	P-1	ACT-1	
205	STOR.	CPT-1	RB-1	P-1	EXPOSED DECK	
206	ELECT. RM.	CONC	RB-1	P-1	EXPOSED DECK	
207	IT RM.	CONC	RB-1	P-1	EXPOSED DECK	
208	DIGITAL MEDIA / GAMING	CPT-1	RB-1	P-1	EXPOSED DECK	WS-2. WC-1, SEE INT. ELEVATIONS
209	STORAGE	CONC	RB-1	P-1	EXPOSED DECK	
210	PRIVATE GROUP POD	CPT-1	RB-1	P-2	EXPOSED DECK	WS-2. WC-1, SEE INT. ELEVATIONS
211	BREAK RM	CONC	RB-1	P-1, PT-3	ACT-1	WS-1
212	CONF. RM 3	CPT-1	RB-1	P-1	ACT-1	WS-1
213	OPEN OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
214	VESTIBULE	CPT-1	RB-1	P-1	ACT-1	
215	TOILET RM	PT-1		P-1, PT-1	PTD. GYP - P-3	
216	OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
217	OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
218	OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
219	PRIVATE TOILET RM	PT-1		P-1, PT-1	PTD. GYP - P-3	
220	STORAGE	CPT-1	RB-1	P-1	ACT-1	
221	OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
222	OFFICE	CPT-1	RB-1	P-1	ACT-1	WS-1
223	CONF. RM. 2	CPT-1	RB-1	P-1	ACT-1	
224	CORRIDOR	CONC	RB-1	P-1	ACT-1	
225	CO-WORKING SPACE 5	CPT-1	RB-1	P-1	ACT-1	WS-1
226	CO-WORKING SPACE 4	CPT-1	RB-1	P-1	ACT-1	WS-1
227	CO-WORKING SPACE 3	CPT-1	RB-1	P-1	ACT-1	WS-1
228	PHONEBOOTH	CPT-1	RB-1	P-1	PTD. GYP - P-3	
228	CLOSET	CONC	RB-1	P-1	EXPOSED DECK	
STR 1	STAIR 1	CONC	RB-1	P-1	PTD. GYP - P-3	
STR 2	STAIR 2	CONC	RB-1	P-1	PTD. GYP - P-3	

INTERIOR FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER (OR APPROVED EQUAL)	MODEL (OR APPROVED EQUAL)	SIZE	COLOR	REMARKS
ACOUSTIC CEILING TILE (ACT)						
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG		24" X 24"		TEGULAR EDGE, SUSPENDED GRID
ACT-2	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA	24" X 24"		TEGULAR EDGE, SUSPENDED GRID, SCRUBBABLE LAB GRADE
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG	KITCHEN ZONE	24" X 24"		TEGULAR EDGE, SUSPENDED GRID, SCRUBBABLE
CARPET TILE (CPT)						
CPT-1	CARPET TILE	FLOR	RUE			
FABRIC (FAB)						
FAB-1	FABRIC	BRENTANO	HOLBROOK	FABRIC (FAB)		
FIBRE REINFORCED PLASTIC (FRP)						
FRP-1	FIBRE REINFORCED PLASTIC					
PAINT (P)						
P-1	INTERIOR WALL PAINT	BENJAMIN MOORE				
P-2	INTERIOR WALL PAINT	SHERWIN WILLIAMS	PRO INDUSTRIAL			
P-3	INTERIOR CEILING PAINT	BENJAMIN MOORE				
P-4	INTERIOR WALL PAINT - ACCENT COLOR	SHERWIN WILLIAMS	PRO INDUSTRIAL			
P-5	INTERIOR WALL PAINT - ACCENT COLOR	BENJAMIN MOORE				
PORCELAIN TILE (PT)						
PT-1	PORCELAIN TILE	TILEBAR	BORN			
QUARTZ (QZ)						
QZ-1	QUARTZ COUNTERTOP & BACKSPLASH	CAMBIRA	SIGNATURE SERIES			
RUBBER BASE (RB)						
RB-1	RUBBER BASE	NORA	WALL BASE	4" TALL		
RB-2	INTEGRAL RUBBER BASE	MANNINGTON COMMERCIAL	IDEALBASE	6.25" TALL		
RUBBER FLOORING (RF)						
RF-1	VINYL SHEET FLOORING	MANNINGTON COMMERCIAL	BIOSPEC ARMOR			
SPECIALTY ACOUSTICS (ACST)						
ACST-1	ACOUSTIC CEILING BAFFLE	TURF	SLAB			
WALL COVERING (WC)						
WC-1	CUSTOM GRAPHIC WALL COVERING	MOMENTUM	DIGITAL MURAL	SEE INTERIOR ELEVATIONS		
WOOD (WD)						
WD-1	ENGINEERED HARDWOOD	ARMSTRONG FLOORING	TIMBERTONES			
WD-2	WOOD VENEER	WILSONART	WHITE OAK PB			

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122
studio kiro

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
50% DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 2024002

SHEET NAME
INTERIOR SCHEDULES & DETAILS

SHEET NO. A901

LABORATORY ABBREVIATIONS

A	
&	AND
@	AT
ACC	ACCESSIBLE
ADJ	ADJUSTABLE, ADJACENT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ALT	ALTERNATE
ALUM	ALUMINUM
ARCH	ARCHITECT/ARCHITECTURAL
AW	ARCHITECTURAL WOODWORK (SEE ARCH)
B	
BAL	BALANCE
BDNG	BEDDING
BKG	BACKING
BLDG	BUILDING
BLKG	BLOCKING
BO_	BOTTOM OF
BOT	BOTTOM
BRKT	BRACKET
BSC	BIOLOGICAL SAFETY CABINET
BSL-#	BIOLOGICAL SAFETY LEVEL (NUMBER)
C	
C-	CHANNEL-(SIZE)
CAB	CABINET(S)
CAV	CONSTANT AIR VOLUME
CER	CONTROLLED ENVIRONMENT ROOM
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CH	CANOPY HOOD
CHEM	CHEMICAL / CHEMISTRY
CL	CENTER LINE
CLG	CEILING
CLOS	CLOSURE
CLR	CLEAR
COL	COLUMN
COMP	COMPUTER
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CS	CUP SINK
CSWK	CASEWORK
CTR	COUNTER
CTRL	CONTROL(LED)
CYL	CYLINDER
D	
D	DEEP, DEPTH
DEG	DEGREE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING(S)
E	
E	EAST
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC(AL)
EMER	EMERGENCY
ENGR	ENGINEER
ENVIR	ENVIRONMENT(AL)
EP	ELECTRICAL PANEL (SEE ELECTRICAL)
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE(D)
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERIOR
F	
F	FILLER (VERIFY WIDTH)
F#	FILLER, (NUMBER) INCH WIDE
FB	FIRE BLANKET (SEE DIV 10 SECTION)
FD	FLOOR DRAIN (SEE PLUMBING)
FE	FIRE EXTINGUISHER/BRACKET (SEE DIV 10 SECTION)
FEC	FIRE EXTINGUISHER CABINET (SEE DIV 10 SECTION)
FH	FUME HOOD
FLAM	FLAMMABLE
FLR	FLOOR
FMFH	FLOOR MOUNT FUME HOOD
FRZ	FREEZER
FT	FOOT/FEET
FUT	FUTURE
G	
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GT	GROUT
GYP BD	GYPSUM BOARD
H	
H	HIGH/HEIGHT
HAZ	HAZARD(OUS)
HB	HOSE BIBB (SEE PLUMBING)
HDW	HARDWARE
HORIZ	HORIZONTAL
HT	HEIGHT
HVY	HEAVY
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INC	INCUBATOR
INSUL	INSULATION
INT	INTERIOR
ISO	ISOLATION
J	
JT	JOINT
K	
KS	KNEE SPACE

L	
L-	ANGLE-(SIZE)
L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LBS	POUNDS
LEV	LOCAL EXHAUST VENT
LIQ	LIQUID
LKR	LOCKER (SEE DIV 10 SECTION)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LAB TABLE
M	
MATL	MATERIAL
MAX	MAXIMUM
MC	MOBILE CART
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MKR BD	MARKER BOARD (SEE DIV 10 SECTION)
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MOVEABLE WORKSTATION
N	
N	NORTH
NA	NOT APPLICABLE
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSC	OVERHEAD SERVICE CARRIER
P	
PE	POLYETHYLENE
PHEN	PHENOLIC
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POS	POSITIVE
PP	POLYPROPYLENE
PROJ SCRN	PROJECTION SCREEN (SEE DIV 11 SECTION)
PTD	PAPER TOWEL DISPENSER (SEE DIV 10 SECTION)
PTFH	PASS THROUGH FUME HOOD
PTN	PARTITION
Q	
QTY	QUANTITY
R	
R=	RADIUS (DIMENSION)
RAD	RADIUS
RCP	REFLECTED CEILING PLAN (SEE ARCHITECTURAL)
RE	REFER TO
REC	RECESSED
REF	REFRIGERATOR
REQ	REQUIRE(D)
REQ'S	REQUIREMENTS
REV	REVISION
RH	RELATIVE HUMIDITY
RM	ROOM
S	
S	SOUTH
SBSTR	SUBSTRATE
SCF	SLOTTED CHANNEL FRAMING (SEE DIV 05 SECTION)
SD	SOAP DISPENSER (SEE DIV 10 SECTION)
SHR	SHOWER
SHT	SHEET
SHV	SHELF/SHELVING
SIM	SIMILAR
SK	SINK
SP	SPACE(S)
SQ	SQUARE
SPEC	SPECIFICATION
SS	SAFETY SHOWER / SAFETY STATION
SSM	SOLID SURFACE MATERIAL
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE/STRUCTURAL
T	
T	THICK(NESS)
TEMP	TEMPERATURE
TFH	TEACHING FUME HOOD
THK	THICK(NESS)
THRU	THROUGH
TK BD	TACK BOARD (SEE DIV 10 SECTION)
TO_	TOP OF
TR	TROUGH
TS-#	TUBE STEEL-(SIZE)
TYP	TYPICAL
U	
UC	UNDER-COUNTER, UNDER CABINET
UCL	UNDER-CABINET LIGHT
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
V	
VAR	VARIES
VAV	VARIABLE AIR VOLUME
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
W	
W	WEST
W	WIDE/WIDTH
W/	WITH
W/O	WITHOUT
WD	WOOD
WT	WEIGHT
WW	WIREWAY (SEE ELECTRICAL)

EQUIPMENT MATRIX AND GENERAL LABORATORY SERVICE ABBREVIATIONS

ELECTRICAL UTILITY KEY

AP	ALARM POWER
D	DATA
DE	DEDICATED ELECTRICAL OUTLET
E	ELECTRICAL
EM	EMERGENCY POWER
GR	GROUNDED
HW	HARDWIRED
P	PLUG
SP	OPTIONAL STANDBY POWER
UPS	UNITERRUPTIBLE POWER SUPPLY

MECHANICAL UTILITY KEY

CC	CONDENSING/COOLING WATER
CHW	CHILLED WATER
EXH	EXHAUST

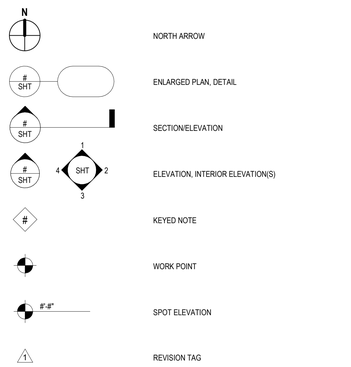
PLUMBING UTILITY KEY

AM	AIR, MEDICAL/BREATHING
AR	ARGON GAS
CA	COMPRESSED AIR
CO2	CARBON DIOXIDE
CS	CUP SINK W/ DRAIN
CW	COLD WATER
DI	DEIONIZED WATER
DW	DISTILLED WATER
H	HYDROGEN
HE	HELIUM
HW	HOT WATER
HCW	HOT/COLD WATER
LN2	LIQUID NITROGEN
N	NITROGEN
NG	NATURAL GAS
O2	OXYGEN
PCW	PROCESSED CHILLED WATER
PR	PRE-RINSE
PW	PURE WATER
RO	REVERSE OSMOSIS WATER
S	STEAM
SG-	SPECIAL GAS-(CHEMICAL SYMBOL)
V	VACUUM
ZA	ZERO AIR

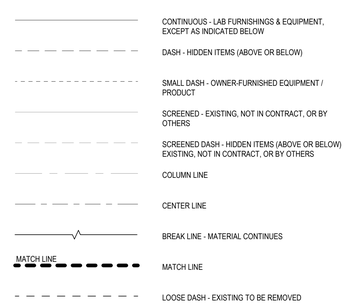
STANDARD ABBREVIATIONS

Y	YES
N	NO

REFERENCE SYMBOLS LEGEND

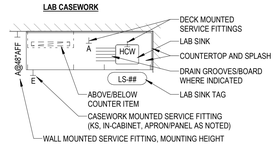


LINE TYPE LEGEND



LABORATORY PLAN SYMBOLS LEGEND

LAB CASEWORK



SERVICE FITTING TAG:



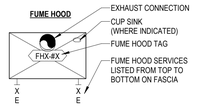
SEE LABORATORY SERVICE FITTING ABBREVIATIONS ABOVE, AND SERVICE FITTING SCHEDULE

ACCESSORY TAG:

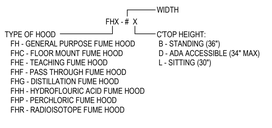
LA	=	LAB ACCESSORY
LE	=	LOCAL EXHAUST VENT
LS	=	LAB SINK
LT	=	LAB TABLE
MC	=	MOBILE CART
MW	=	MOVEABLE WORKSTATION
PB	=	PEGBOARD
UM	=	UMBILICAL

(AND AS SCHEDULED)

FUME HOOD



FUME HOOD TAG LEGEND



TYPE OF HOOD
- FH - GENERAL PURPOSE FUME HOOD
- FHC - FLOOR MOUNT FUME HOOD
- FHE - TEACHING FUME HOOD
- FHF - PASS THROUGH FUME HOOD
- FHG - DISTILLATION FUME HOOD
- FHH - HYDROFLOURIC ACID FUME HOOD
- FHP - PERCHLORIC FUME HOOD
- FHR - RADIOISOTOPE FUME HOOD

CTOP HEIGHT:
- B - STANDING (36")
- D - ADA ACCESSIBLE (34" MAX)
- L - SITTING (30")

COUNTERTOP MATERIAL AND HEIGHT TAG:

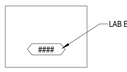
(SEE GENERAL NOTES FOR TYPICAL MATERIAL AND HEIGHT)

MATERIALS:		HEIGHTS:
E	= EPOXY	ADJ
L	= PLASTIC LAMINATE	30"
M	= SOLID SURFACE MATERIAL	34"
P	= PHENOLIC	36"
S	= STAINLESS STEEL	
W	= WOOD	

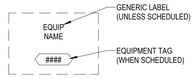
EQUIPMENT ZONE, CLEAR FLOOR SPACE



LAB EQUIPMENT (CFCI)



OWNER FURNISHED EQUIPMENT / PRODUCT



UMBILICAL

INSULATED METAL PANEL

FLOOR DRAIN (SEE PLUMBING)

PEGBOARD

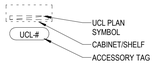


EXHAUST CONNECTION (SEE MECHANICAL)

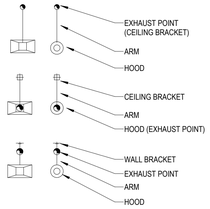
CANOPY EXHAUST, ABOVE (SEE MECHANICAL)



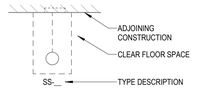
UNDER-CABINET LIGHT



LOCAL EXHAUST VENT (SNORKEL)



SAFETY STATION



A - EYEWASH, RECESSED
B - SAFETY SHOWER, RECESSED
C - COMBINATION SAFETY SHOWER/EYEWASH, RECESSED
D - COMBINATION SAFETY SHOWER/EYEWASH, SURFACE
E - EYEWASH, FREE-STANDING
F - SAFETY SHOWER, OVERHEAD PULL
G - COMBINATION SAFETY SHOWER/EYEWASH, FREE-STANDING
H - WALL MOUNTED EYEWASH

CLEAR FLOOR SPACE 30"x60" MIN.
TYPE VARIES (SEE PLUMBING)

GENERAL NOTES

A. DO NOT SCALE DRAWINGS, USE DIMENSIONS. DIMENSIONS NOTED "AS REQUIRED", "VERIFY", "VERIFY IN FIELD", "MATCH EXISTING", OR OTHER SIMILAR TERMS ARE TO VERIFIED BY THE CONTRACTOR. NOTIFY ARCHITECT OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
B. CONDITIONS SHOWN ARE APPROXIMATE BASED ON INFORMATION FURNISHED. NOTIFY ARCHITECT OF DISCREPANCIES AND OBTAIN CLARIFICATION BEFORE PROCEEDING.
C. LAB CASEWORK SHALL BE [METAL CASEWORK] [METAL CASEWORK WITH WOOD DOOR AND DRAWER FRONTS] [WOOD CASEWORK], UNO.
D. LAB COUNTER TOPS SHALL BE 3/4" PHENOLIC, UNO.
E. LAB COUNTER TOP HEIGHT SHALL BE 34", UNO.
F. REFER TO SHEET [QL-030] FOR OTHER LAB CASEWORK GENERAL NOTES.
G. LOCATE LOCAL EXHAUST DEVICES, AND OTHER CEILING MOUNTED LAB FURNISHINGS AND EQUIPMENT AT CENTER OF [2'x2'] ACOUSTICAL CEILING PANEL, UNO. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.]
H. WIRE SHELVING, WASTE BINS, AND OTHER SIMILAR FURNITURE/FURNISHING TYPE ITEMS WITH TEXT LABEL ARE SHOWN FOR REFERENCE ONLY (NIC).
I. REFER TO LABORATORY EQUIPMENT MATRIX FOR LAB EQUIPMENT REFERENCE INFORMATION.

SHEET NOTES

LEGEND

LABORATORY FURNISHINGS AND EQUIPMENT KEYED NOTES

SHOWN X

NOTE: NOT ALL KEYED NOTES ARE USED.

1. [Insert exception to default casework material here] LAB CASEWORK.
2. UPRIGHT ROD ASSEMBLY AND CROSSBAR.
3. LATTICE ASSEMBLY.
4. PAPER ROLL CUTTER.
5. PEGBOARD; XX/QL9.XX.
6. PEGBOARD & CARBOY SHELF; XX/QL9.XX.
7. PEGBOARD W/CARBOY SHELF & ADJUSTABLE GRADUATE RACK; XX/QL9.XX.
8. CARBOY SHELF; XX/QL9.XX.
9. CARBOY SHELF & ADJUSTABLE GRADUATE RACK; XX/QL9.XX.
10. PERFORATED PEGBOARD; XX/QL9.XX.
11. SPLASH GUARD; XX/QL9.XX.
12. GROMMET - 2-1/2" DIA; XX/QL9.XX.
13. GROMMET - 2-1/2" DIA; XX/QL9.XX.
14. COUNTERTOP SLEEVE - 3" DIA; XX/QL9.XX.
15. COUNTERTOP SLEEVE - 2" X 4"; XX/QL9.XX.
16. COUNTERTOP SLEEVE - 3" X 6"; XX/QL9.XX.
17. LAB COAT HOOKS; XX/QL9.XX.
18. COUNTERTOP HEIGHT TRANSITION; XX/QL9.XX.
19. VERTICAL SERVICE CARRIER; XX/QL9.XX.
20. RECESSED VERTICAL SERVICE CARRIER; XX/QL9.XX.
21. WIREWAY; SEE ELEC.
22. RECESSED SAFETY SHOWER; SEE PLUMB.
23. RECESSED EYE/FACE WASH; SEE PLUMB.
24. RECESSED EMEREGENCY SHOWER; SEE PLUMB.
25. FUME HOOD CEILING ENCLOSURE; XX/QL9.XX.
26. LAB ACCESSORY - BALANCE TABLE; XX/QL9.XX.
27. LAB ACCESSORY - FREESTANDING ACID STORAGE CABINET; XX/QL9.XX.
28. LAB ACCESSORY - FREE STANDING FLAMMABLE STORAGE CABINET; XX/QL9.XX.
29. LAB ACCESSORY - GAS CYLINDER BRACKET(S); XX/QL9.XX.
30. LAB ACCESSORY - GAS CYLINDER RACK; XX/QL9.XX.
31. LAB ACCESSORY - HOSE RACK; XX/QL9.XX.
32. LAB ACCESSORY - LEAD APRON RACK; XX/QL9.XX.
33. LAB ACCESSORY - MODULAR WALL PANEL SYSTEM; XX/QL9.XX.
34. CONTROLLED ENVIRONMENT ROOM - COLD STORAGE.
35. CONTROLLED ENVIRONMENT ROOM - FREEZER ROOM.
36. CONTROLLED ENVIRONMENT ROOM - WARM ROOM.
37. CONTROLLED ENVIRONMENT ROOM - WIDE RANGE.
38. ENVIRONMENTAL GROWTH CHAMBER ROOM.
39. METAL SHELVING - ADJ WIRE WALL SHELVING; XX/QL9.XX.
40. [INSERT OTHER KEYED NOTES].

LABORATORY FURNISHINGS & EQUIPMENT DRAWING LIST

QL001	ABBREVIATIONS, LEGENDS AND NOTES
QL010	SCHEDULES - LAB TABLES AND FUME HOODS
QL011	SCHEDULES - LAB SINKS AND SERVICE FITTINGS
QL012	SCHEDULES - LAB ACCESSORIES
QL030	LAB CASEWORK TYPES, LEGENDS AND NOTES
QL060	LABORATORY EQUIPMENT MATRIX
QL201	FIRST FLOOR OVERALL PLAN
QL202	SECOND FLOOR OVERALL PLAN
QL311	LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN
QL311-E	FIRST FLOOR ENLARGED EQUIPMENT PLAN
QL312	LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN
QL312-E	FIRST FLOOR ENLARGED EQUIPMENT PLAN
QL313	LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN
QL313-E	FIRST FLOOR ENLARGED EQUIPMENT PLAN
QL314	LEVEL 01 - CRAFT LAB ENLARGED PLAN
QL314-E	FIRST FLOOR ENLARGED EQUIPMENT PLAN
QL315	FIRST FLOOR- WET LAB ENLARGED PLAN
QL315-E	FIRST FLOOR ENLARGED EQUIPMENT PLAN
QL316	SECOND FLOOR- DIGITAL MEDIA ENLARGED PLAN
QL316-E	SECOND FLOOR ENLARGED EQUIPMENT PLAN
QL317	DIGITAL MEDIA AXONOMETRIC
QL501	LABORATORY INTERIOR ELEVATIONS
QL502	LABORATORY INTERIOR ELEVATIONS
QL901	LABORATORY DETAILS - CASEWORK SECTIONS
QL902	LABORATORY DETAILS - ACCESSORIES
QL903	LABORATORY DETAILS - ACCESSORIES
S101	OVERALL PLAN - LEVEL 01
S102	OVERALL PLAN LEVEL - 02
S103	ROBOTICS - LEVEL 01
S104	MAKER SPACE - LEVEL 01
S105	WOODWORKING/METAL - LEVEL 01
S106	CRAFT LAB - LEVEL 01
S107	WET LAB - LEVEL 01
S108	DIGITAL MEDIA/GAMING - LEVEL 02
XQL011	SCHEDULES - LAB FUME HOODS AND BIOSAFETY CABINETS

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SHEET NAME

ABBREVIATIONS, LEGENDS AND NOTES

SHEET NO. QL001

LABORATORY FUME HOOD SCHEDULE

TAG	TYPE	VENTILATION	SASH TYPE	WORK SURFACE MATERIAL	WORK SURFACE HEIGHT (INCHES)	DETAIL	NOTES
FH-5D	GENERAL PURPOSE, BENCH TYPE	VAV	VERTICAL	EPOXY	34	2 / QL010	

FUME HOOD SCHEDULE GENERAL NOTES:

A. ALL FUME HOODS MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. REFER TO LAB PLAN TAG FOR UNIT WIDTH (#=FEET).
C. FUME HOOD DEPTH NOMINAL 36", UNO.
D. SEE MECHANICAL FOR EXHAUST CONNECTION, INCLUDING DUCT.
E. SEE PLUMBING AND ELECTRICAL FOR UTILITY SERVICES.
F. FUME HOOD WORK SURFACE SHALL BE 1-1/4" THICK EPOXY RESIN W/ RAISED (MARINE) EDGE, UNO.

FUME HOOD SCHEDULE KEYED NOTES:

1. THE COMBINATION OF BASE CABINETS, WORK SURFACE AND AIR FOIL AT ACCESSIBLE FUME HOODS SHALL NOT EXCEED 34" TO TOP OF WORK SURFACE OR AIR FOIL, WHICHEVER IS HIGHER.
2. ACCESSIBLE FUME HOOD MAXIMUM VERTICAL REACH TO OPERATING CONTROLS SHALL NOT EXCEED 48" AFF; MAXIMUM HORIZONTAL REACH TO SERVICE OUTLET SHALL NOT EXCEED 24" FROM FRONT OF HOOD.
3. PROVIDE CABINET MOUNTED REMOTE CONTROL VALVES PIPED UP TO DECK MOUNTED SERVICE OUTLETS IN FUME HOOD WHERE INDICATED IN PLAN.

LABORATORY TABLE SCHEDULE

TAG	WORK SURFACE (INCHES) W	D	H	TABLE FRAME MATERIAL	WORK SURFACE MATERIAL	SUSPENDED CABINET MATERIAL	TABLE FRAME TYPE	DETAIL	NOTES
LT-01	72	30	34	METAL	EPOXY	--	A	1 / QL010	
LT-02	60	30	34	METAL	EPOXY	--	A	1 / QL010	
LT-03	48	30	34	METAL	EPOXY	--	A	1 / QL010	
LT-04	72	36	34	METAL	EPOXY	--	A	1 / QL010	
LT-##	60	30	34	METAL	EPOXY	--	D		
LT-##	72	30	34	METAL	EPOXY	--	D		
LT-##	72	30	34	METAL	EPOXY	--	D		

TABLE SCHEDULE GENERAL NOTES:

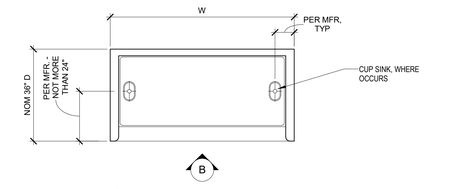
A. ALL LAB TABLES MAY NOT BE USED. REFER TO LABORATORY PLANS.
B. WORK SURFACE SHALL OVERHANG TABLE FRAME MINIMUM 1" EACH SIDE, UNO.
C. FOR TABLES WITH HEIGHT ADJUSTABLE LEGS, "H" INDICATES WORKSURFACE SET-UP HEIGHT: 34" UNLESS OTHERWISE DIRECTED BY OWNER.
D. PROVIDE HEIGHT ADJUSTABLE LEVELING DEVICES AT EACH TABLE LEG, UNO.
E. TABLE FRAME MATERIAL SHALL BE METAL, UNO.

TABLE FRAME TYPE LEGEND (NOT ALL TABLE FRAME TYPES ARE USED.)

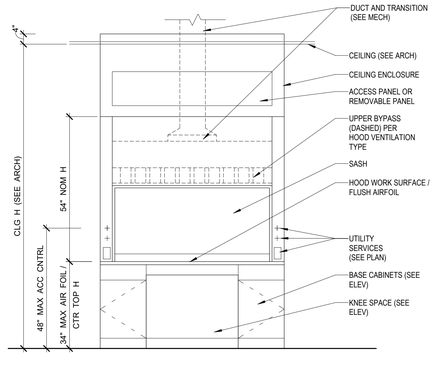
TYPE-A METAL TABLE FRAME
TYPE-B HEAVY-DUTY METAL TABLE FRAME
TYPE-C HEAVY-DUTY METAL TABLE FRAME (W/ SUSPENDED CABINETS)
TYPE-D FULLY-WELDED TABLE FRAME
TYPE-E FULLY-WELDED TABLE FRAME (W/ SUSPENDED CABINETS)
TYPE-F HEAVY-DUTY FULLY WELDED TABLE FRAME
TYPE-W WOOD TABLE FRAME

TABLE SCHEDULE KEYED NOTES:

1. POWER/DATA GROMMET (TYPE-#) AND CABLE TRUNKING, BACK-RIGHT LOCATION; LEFT REAR WHERE PLAN TAG SUFFIX "L" OCCURS.
2. PROVIDE H-FRAME STRETCHER ASSEMBLY IN LIEU OF STANDARD U-FRAME.
3. 4" DIA. SWIVEL/LOCKING CASTERS.
4. COMBINATION LEVELING CASTERS.
5. 3" OVERHANG FRONT AND BACK OF TABLE TO ALLOW FOR APPARATUS CLAMPING.
6. CABINET LOCKS AT DOORS/DRAWERS.
7. PENCIL DRAWER.
8. FIXED TABLE LOCATION; PROVIDE HOLD-DOWN CLIPS AT EACH LEG AND LEG SHOES.
9. UPRIGHT ROD ASSEMBLY AND CROSS-BAR.

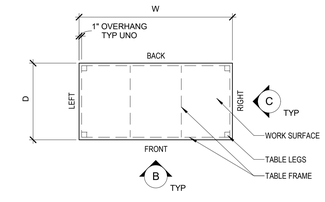


A PLAN

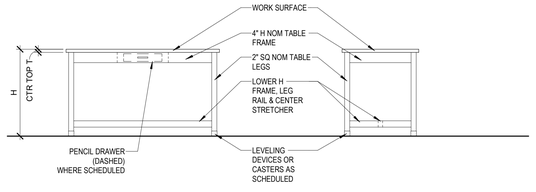


B ELEVATION

2 FUME HOOD - TYPE D - ACCESSIBLE GENERAL PURPOSE
1/2" = 1'-0"



A PLAN



B EL - FRONT/BACK

C EL - SIDES

1 DETAIL - STANDARD TABLE FRAME
1/2" = 1'-0"

COMMENTS:
- Schedule the following:
  - Power / data grommet
  - Adjustable height legs
  - Casters
  - Combination leveling casters
  - Pencil drawer
  - U-frame (stretcher @ rear legs)
- Edit typ. position of power / data grommet on detail; schedule any differences.
- Use as template for other conditions specific to this table frame.

GENERAL NOTES

SHEET NOTES

LEGEND

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SHEET NAME
SCHEDULES - LAB TABLES AND FUME HOODS

SHEET NO. QL010

LABORATORY SINK SCHEDULE

TAG	SINK TYPE (COMPARTMENT)	NOMINAL COMPARTMENT SIZE (INCHES)			MATERIAL	MOUNTING	NOTES
		W	D	H			
LS-01	SINGLE	25	15	10	EPOXY	DROP-IN	
LS-03	SINGLE	25	15	18	EPOXY	DROP-IN	
LS-04	SINGLE	18	15	5	EPOXY	DROP-IN	1
LS-27	DOUBLE	18	15	11	SST	INTEGRAL	

LAB SINK SCHEDULE GENERAL NOTES:

A. NOT ALL SINK TYPES ARE USED. REFER TO LAB PLANS.
B. REFER TO DETAIL FOR TYPICAL SINK SERVICE FITTING MOUNTING CONDITIONS.
C. EPOXY SINKS, PROVIDE WITH CORNER DRAIN.
D. STAINLESS STEEL SINKS, PROVIDE WITH CENTER DRAIN.

LAB SINK SCHEDULE KEYED NOTES:

1. ACCESSIBLE SINK.
2. TYPICAL AT FUME HOODS. SEE LAB PLAN FUME HOOD SYMBOL FOR POSITION WITHIN HOOD.
3. DROP-IN (FLUSH MOUNT) AT COUNTERTOPS. DROP-IN (SURFACE MOUNT) AT FUME HOOD COUNTERTOPS.

SERVICE FITTING SCHEDULE

SERVICE TAG	SPECIFICATION SECTION	DESCRIPTION	MOUNTING LOCATION	BASIS OF DESIGN		NOTES
				MANUFACTURER	MODEL NUMBER	
01 WATER SERVICE FITTING						
DI-1	12 35 53	LABORATORY PURE WATER FAUCET, POLYPROPYLENE LINED, DECK MOUNTED	BENCH	WATERSAVER	L7833MSC	--
HC-1	12 35 53	LABORATORY MIXING FAUCET, DECK MOUNTED, 6" RIGID/SWING VACUUM-BREAKER GOOSENECK, WRIST BLADE HANDLES	BENCH	WATERSAVER	L414VB-BH	FURNISH REMOVABLE SERRATED HOSE END
02 GAS SERVICE FITTING						
A-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED SINGLE	BENCH	WATERSAVER	L4200-131WSA	--
V-1	12 35 53	LABORATORY BALL VALVE ASSEMBLY, DECK MOUNTED	BENCH	WATERSAVER	L4200-131WSA	--
04 SAFETY SERVICE FITTING						
DH-1	12 35 53	EYEWASH/DRENCH HOSE UNIT, DECK MOUNTED, WITH BACKFLOW PREVENTER AND HOT CORE	BENCH	WATERSAVER	EW1022BP-HG	--
SS-C1	12 35 53	RECESSED SAFETY STATION WITH DRAIN PAN, WALL MOUNTED EXPOSED SHOWER HEAD	WALL/CEILING	WATERSAVER	SSBF2170	--

SERVICE FITTINGS SCHEDULE GENERAL NOTES:

A. REFER TO LABORATORY PLANS AND ELEVATIONS FOR ADDITIONAL NOTES.

SERVICE FITTINGS SCHEDULE KEYED NOTES:

1. ------

GENERAL NOTES

SHEET NOTES

LEGEND

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SHEET NAME

SCHEDULES - LAB SINKS AND SERVICE FITTINGS

SHEET NO. QL011

LABORATORY ACCESSORIES SCHEDULE

TAG	SPECIFICATION SECTION	DESCRIPTION	NOMINAL UNIT SIZE (IN)			BASIS OF DESIGN		COMMENTS	DETAIL	NOTES
			W	D	H	MANUFACTURER	MODEL NUMBER			
CR-1	XX XX XX	POWER CORD REEL				PENDING	PENDING	--	- / ---	
HR-1	XX XX XX	CEILING HOSE REEL				PENDING	PENDING	--		
HR-2	XX XX XX	WALL MOUNT HOSE REEL				PENDING	PENDING	--		
LA-A	12 40 53	GAS CYLINDER BRACKET	12"	11"	36"	SAFE-T-RACK SYSTEMS, INC.	SAFE-T-RACK BLOCK, MODEL CB-1C (HIGH), AND MODEL CB-1 (LOW)	TWO BRACKETS PER CYLINDER; 1-HIGH W/ STRAP AND CHAIN; 1-LOW W/ STRAP	1 / QL012	1
LE-B1	12 40 53	LOCAL EXHAUST VENT - SNORKEL TYPE B (HIGH TEMPERATURE)				MOVEX	MEX AAR	10" DIA STAINLESS STEEL DOME HOOD; FLEXIBLE HOSE; CEILING BRACKET, ESCUTCHEON PLATE		1
PB-A	12 35 53	PEGBOARD - TYPE A	24"	1"	36"	BY CASEWORK MFG.	BY CASEWORK MFG.			
UCL-A	12 35 53	UNDER CABINET LIGHT - TYPE A	<varies>	4"	1"	TBD	TBD	BY LAB CASEWORK MFR		
WS-4824	10 56 13	STAINLESS STEEL WIRE SHELVING	48"	24"	86"	TBD	TBD			
WS-6018	10 56 13	STAINLESS STEEL WIRE SHELVING	60"	18"	86"	TBD	TBD			

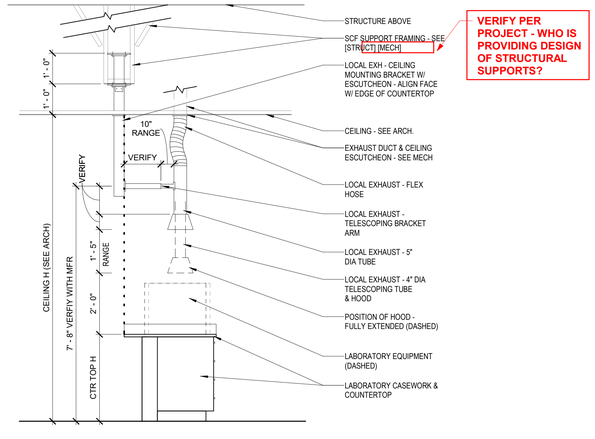
LABORATORY ACCESSORIES SCHEDULE GENERAL NOTES:

A. FIRST GENERAL NOTE GOES HERE.
B. SECOND GENERAL NOTE GOES HERE.

COORDINATE DEFAULT GENERAL NOTES AND EXAMPLE KEYNOTES WITH CONTENTS OF PROJECT, THEN DELETE THIS NOTE.

LABORATORY ACCESORIES SCHEDULE KEYED NOTES:

1. FIRST KEYED NOTE GOES HERE.
2. SECOND KEYED NOTE GOES HERE.



VERIFY PER PROJECT - WHO IS PROVIDING DESIGN OF STRUCTURAL SUPPORTS?

1 LOCAL EXHAUST VENT - SNORKEL TYPE B (HIGH TEMPERATURE)
1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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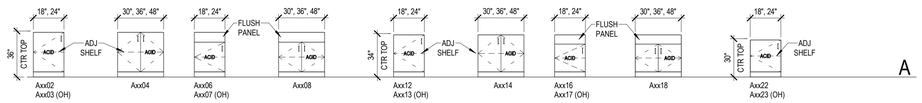
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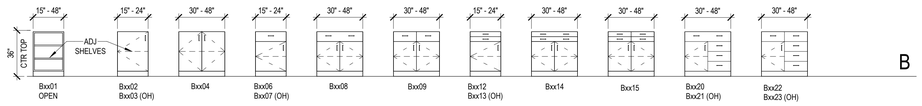
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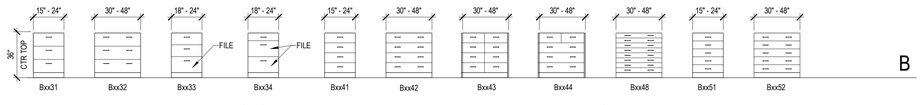
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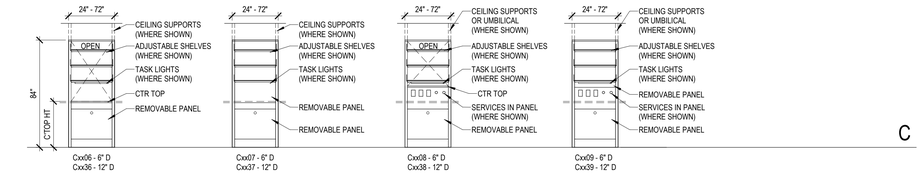
SCHEDULES - LAB ACCESSORIES

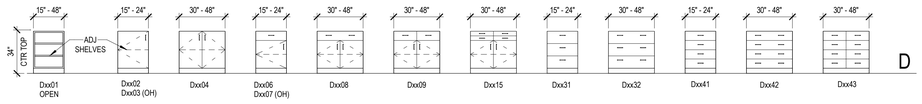
SHEET NO. QL012

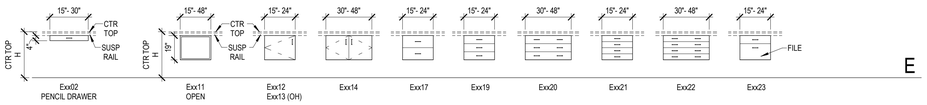


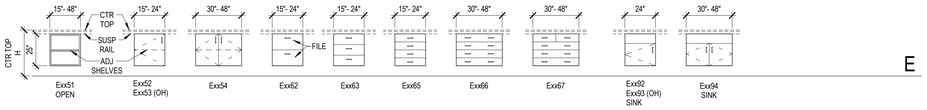


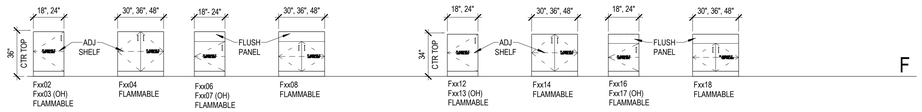


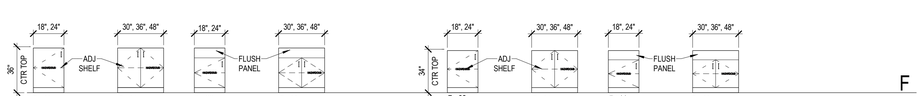




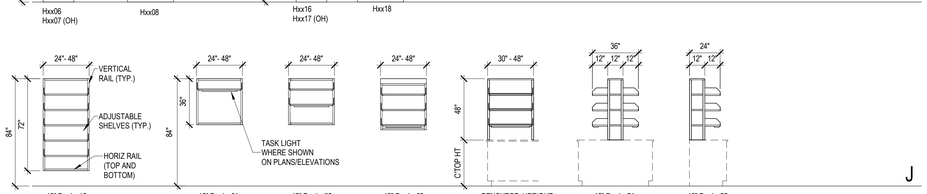


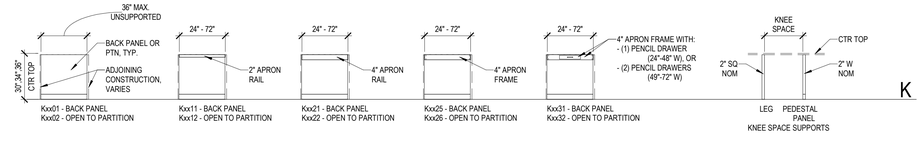


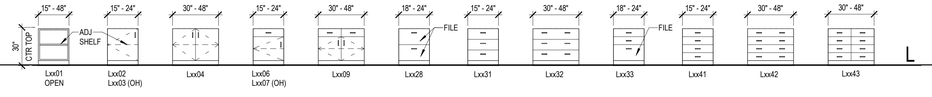


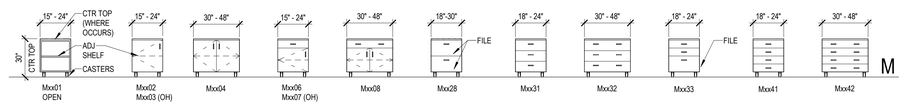


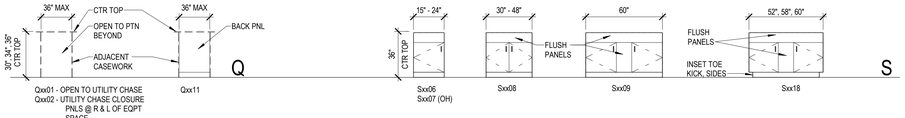


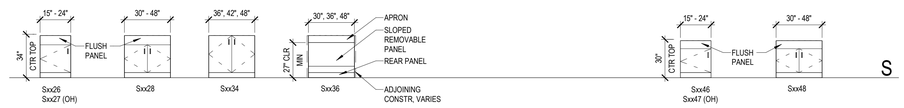


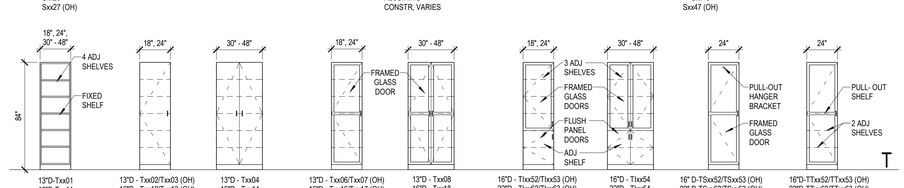




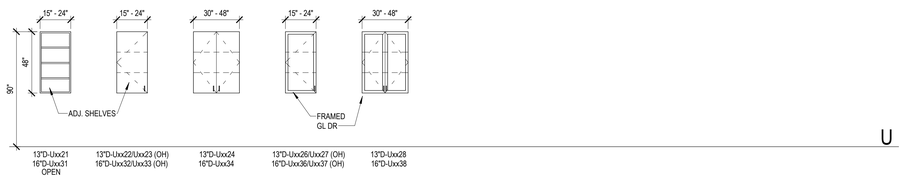


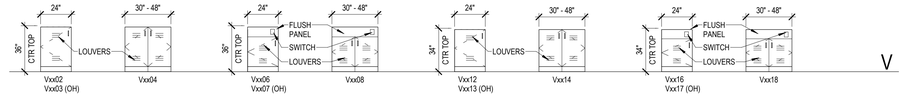


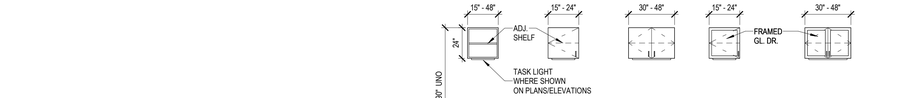


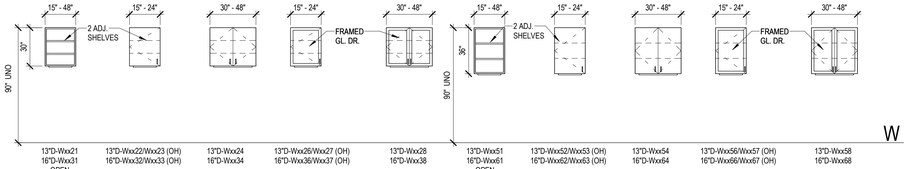












CASEWORK LEGEND

CASEWORK TYPE — B — 36 — 01
WIDTH INCHES
DRAWER/DOOR CONFIGURATION

CASEWORK TYPES

TAG	DESCRIPTION	TYPICAL DETAILS
A	CORROSIVES STORAGE CABINET (ACIDS, BASES)	- / ---
B	STANDING HEIGHT BASE CABINET - 36"	- / ---
C	ISLAND CORE	AS NOTED
D	ACCESSIBLE HEIGHT BASE CABINET - 34"	- / ---
E	SUSPENDED CABINET	AS NOTED
F	FLAMMABLE / HAZARDOUS STORAGE CABINET	- / ---
H	HOOD CABINET	- / ---
J	ADJUSTABLE SHELVING SYSTEMS	- / ---
K	KNEE SPACES	- / ---
L	SITTING HEIGHT BASE CABINET - 30"	- / ---
M	MOBILE CABINETS	- / ---
Q	EQUIPMENT SPACE	- / ---
S	SINK BASE CABINET	- / ---
T	TALL CABINET	- / ---
U	UPPER CABINET	- / ---
V	VACUUM PUMP CABINET	- / ---
W	WALL CABINET	- / ---
Z	SPECIALITY CABINET	AS NOTED
MC	MOBILE CART	AS NOTED
MW	MOVEABLE WORKSTATION	AS NOTED
LT	LAB TABLE	AS NOTED

CASEWORK GENERAL NOTES

A. NOT ALL CASEWORK TYPES ARE USED. REFER TO LABORATORY DRAWINGS.
B. LAB CASEWORK SHALL BE MODULAR, IN 3" INCREMENTS FOR UNITS UP TO 30" WIDE; 6" INCREMENTS FOR UNITS 30" TO 48" WIDE.
C. LAB CASEWORK BELOW FUME HOODS SHALL BE METAL LAB CASEWORK, UNO.
D. OVERALL COUNTERTOP LENGTH IS DETERMINED BY WIDTH OF CABINETS, FILLERS, OVERHANGS, AND/OR DIMENSIONS INDICATED. OVERALL DIMENSIONS SHALL GOVERN REGARDLESS OF MANUFACTURER'S STANDARD DIMENSIONS.
E. COUNTERTOPS SHALL OVERHANG BASE CABINETS 1" NOMINAL AT FRONT AND AT EXPOSED ENDS OF CABINETS, UNO. FRONT OVERHANG IS TO FACE OF CABINET DOOR REGARDLESS OF CABINET STYLE. WHEN OVERALL DIMENSIONS ARE INDICATED, THE OVERHANG IS INCLUDED.
F. AT WALL-TO-WALL CONDITIONS WITH OPEN KNEE-SPACE DIMENSION (K-##), DIMENSION SHALL BE DETERMINED IN THE FIELD. WHERE MORE THAN ONE OPEN KNEE-SPACE DIMENSION OCCURS, THE SPACE AVAILABLE SHALL BE EVENLY DISTRIBUTED.
G. PROVIDE FILLERS TO CLOSE SPACE BETWEEN CABINETS, FUME HOODS, AND ADJOINING CONSTRUCTION. AT WALL-TO-WALL CONDITIONS, VERIFY FILLER SPACE IN FIELD; SPACE SHALL BE EVENLY DISTRIBUTED. PROVIDE NOMINAL 3" WIDE FILLER AT PERPENDICULAR WALL CONDITIONS, UNO. PROVIDE 1" WALL FILLER BETWEEN TALL CABINETS AND THE ADJOINING BASE/UPPER/WALL CABINET.
H. COUNTERTOP HEIGHT IS NOMINAL, BASED ON LAB CASEWORK MANUFACTURER'S CABINET MODULE HEIGHT AND COUNTERTOP MATERIAL (WITHIN 3/4" OF REFERENCED HEIGHT) WHERE 34" HEIGHT IS INDICATED, COUNTERTOP HEIGHT SHALL NOT EXCEED 34" AFF. AT KNEE-SPACES WITH APRONS, CLEAR HEIGHT SHALL NOT BE LESS THAN 27".
I. MAINTAIN OVERALL NOMINAL HEIGHT OF COUNTERTOPS. BEGIN CASEWORK INSTALLATION AT HIGH POINT OF FLOOR AT EACH BENCH WITH CABINET LEVELERS SCREWED IN AS FAR AS POSSIBLE.
J. COUNTERTOP DEPTH AT WALL CONDITIONS SHALL BE 30" INCLUDING OVERHANG, UNO. COUNTERTOP DEPTH AT ISLAND/PENINSULA CONDITIONS SHALL BE 60", INCLUDING OVERHANGS, UNO.
K. FINISH EXPOSED-TO-VIEW COUNTERTOP EDGES, BACKS AND ENDS OF CURBS/SPLASHES.
L. PROVIDE SEALANT AT JOINT BETWEEN BUILDING CONSTRUCTION, AND COUNTERTOPS/CURBS/SPLASHES.
M. CASEWORK TYPE-A, CORROSIVES CABINETS (ACIDS AND BASES): [METAL LAB CASEWORK, UNO.] ACID STORAGE TYPICAL, UNO. REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN ACIDS, AND FOR DEDICATED STORAGE.
N. CASEWORK TYPE-F, FLAMMABLE/HAZARDOUS MATERIAL CABINETS: [METAL LAB CASEWORK, UNO.] REFER TO DRAWING NOTES FOR STORAGE CONTENTS OTHER THAN FLAMMABLE LIQUIDS, AND FOR DEDICATED STORAGE.
O. CASEWORK TYPE-H, HOOD CABINETS: [METAL LAB CASEWORK, UNO.]
P. CASEWORK TYPE-J, ADJUSTABLE SHELVING SYSTEM: ADJUSTABLE SHELVES FOR WALL RAIL AND BENCHTOP UPRIGHT SHELVING UNITS SHALL BE [METAL SHELVES] [WOOD SHELVES W/ METAL BRACKETS] [PHENOLIC SHELVES W/ METAL BRACKETS] AND SHELF EDGE RETAINING RODS, UNO.
Q. CASEWORK TYPE-M, MOBILE CABINETS; PROVIDE MOBILE CABINETS WITH CASTERS AND [1" THICK EPOXY] [3/4" THICK PHENOLIC] [FINISHED] TOP, UNO.
R. CASEWORK TYPE-Q, EQUIPMENT SPACE: WIDTH INDICATED IS NOMINAL; VERIFY REQUIRED WIDTH WITH EQUIPMENT MANUFACTURER. WHERE EQUIPMENT HEIGHT RESULTS IN CLEAR SPACE BETWEEN COUNTERTOP AND TOP OF EQUIPMENT GREATER THAN 3/4", PROVIDE A FILLER/APRON TO MATCH ADJOINING CASEWORK. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR UTILITY SERVICES.
S. CASEWORK TYPE-T, TALL CABINETS; CASEWORK TYPE ELEVATIONS ILLUSTRATE FRAMED GLASS DOORS WITH HORIZONTAL MULLION. DOORS WITHOUT HORIZONTAL MULLION ARE ACCEPTABLE.
T. CASEWORK TYPE-V, VACUUM PUMP CABINETS; INSULATED CABINET WITHOUT CABINET BOTTOM. CABINETS ARE TO BE EXHAUSTED; SEE MECHANICAL DRAWINGS FOR EXHAUST CONNECTION INCLUDING DUCT. PROVIDE DOOR LOUVERS, TOE-KICK VENTS, OR UNDER-CUT CABINET DOOR FOR THRU-CABINET VENTILATION. [PROVIDE CABINET WITH MOBILE PLATFORM, UNO; SIZE TO FIT CABINET].

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA

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WDG Project No: Project Number

SHEET NAME

LAB CASEWORK TYPES, LEGENDS AND NOTES

SHEET NO. QL030

LABORATORY EQUIPMENT MATRIX

EQUIPMENT INFORMATION						TRACKING DATA								DIMENSIONS								SPECIAL REQUIREMENTS			MECHANICAL					ELECTRICAL/DATA								PLUMBING						
GROUP NAME	EQUIPMENT NUMBER	EQUIPMENT ABBREVIATION	EQUIPMENT DESCRIPTION	MANUFACTURER	MODEL NUMBER	SPEC NUMBER	FURNISHED BY	MOUNTING LOCATION	EXISTING	NEW	EXISTING ROOM NUMBER & NAME	NEW ROOM NUMBER AND NAME	QUANTITY	PLACED IN MODEL (HIDE THIS COLUMN AFTER COORDINATING)	DIAMETER (IN)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	CLEARANCE (FRONT)	CLEARANCE (BACK)	CLEARANCE (SIDE)	CLEARANCE (TOP)	WEIGHT (LBS)	REMARKS/ADJACENCIES	TESTING PROCESS	VIBRATION	SUPPLY	EXHAUST	CONNECTION	CFM (CUBIC FEET PER MINUTE)	HEAT (BTU PER HOUR)	UTILITIES	# OF OUTLETS	VOLTAGE	AMPERAGE	PHASE	RECEPTACLE TYPE	WATTAGE	OTHER ELECTRICAL UTILITIES	DATA CONNECTION	DRAIN	WASTE	UTILITIES	REGULATOR	FITTING TYPE (INLET/OUTLET)	FURNISHED BY (CF, OF)	INSTALLED BY (CI, OI)	PSI RANGE

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

LABORATORY EQUIPMENT MATRIX

SHEET NO. QL060



1 OVERALL LEVEL 01
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME
FIRST FLOOR OVERALL PLAN

SHEET NO. QL201



1 OVERALL LEVEL 02
1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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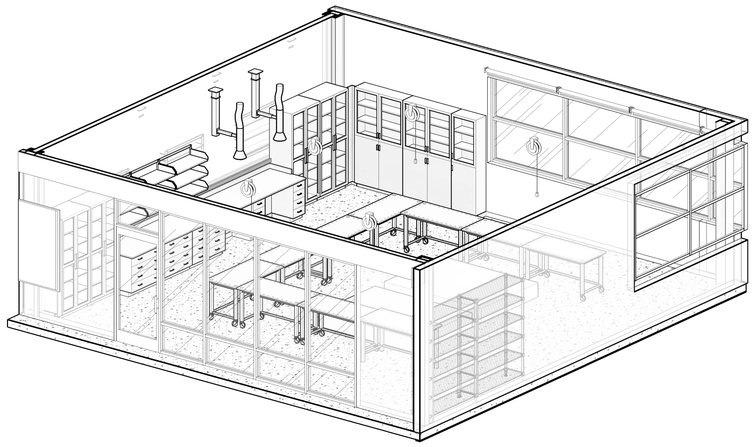
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WDG Project No: Project Number

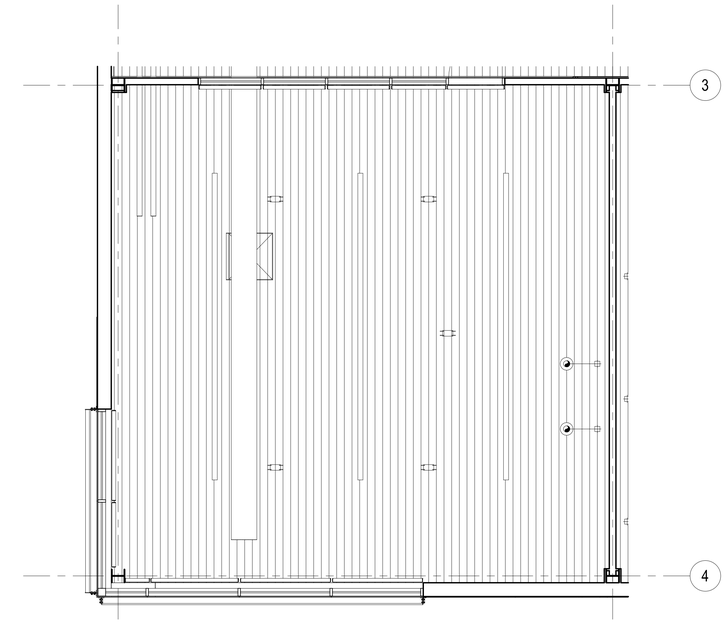
SHEET NAME

SECOND FLOOR OVERALL PLAN

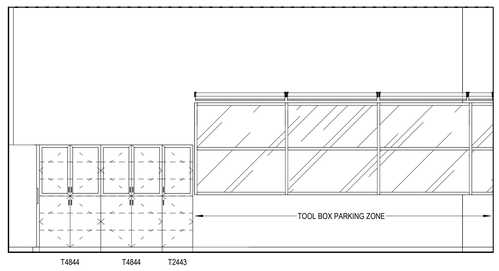
SHEET NO. QL202



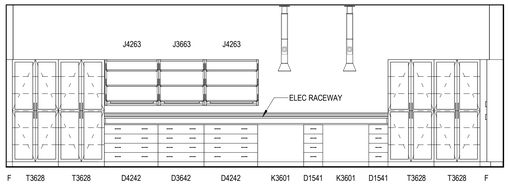
4 COMPUTER / ROBOTICS AXON



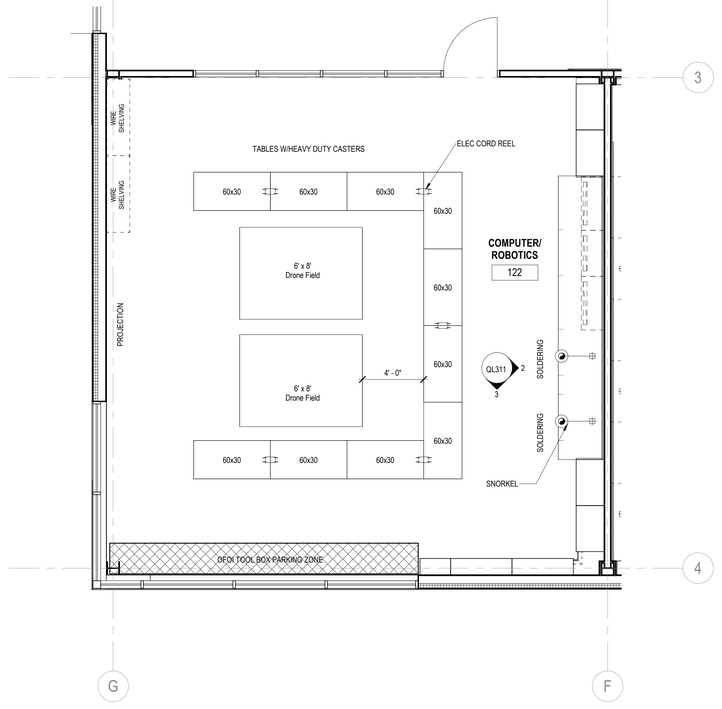
5 COMPUTER / ROBOTICS REFLECTED CEILING PLAN
1/4" = 1'-0"



3 COMPUTER / ROBOTICS - SOUTH
1/4" = 1'-0"



2 COMPUTER / ROBOTICS - EAST
1/4" = 1'-0"



1 LEVEL 01 - COMPUTER / ROBOTICS
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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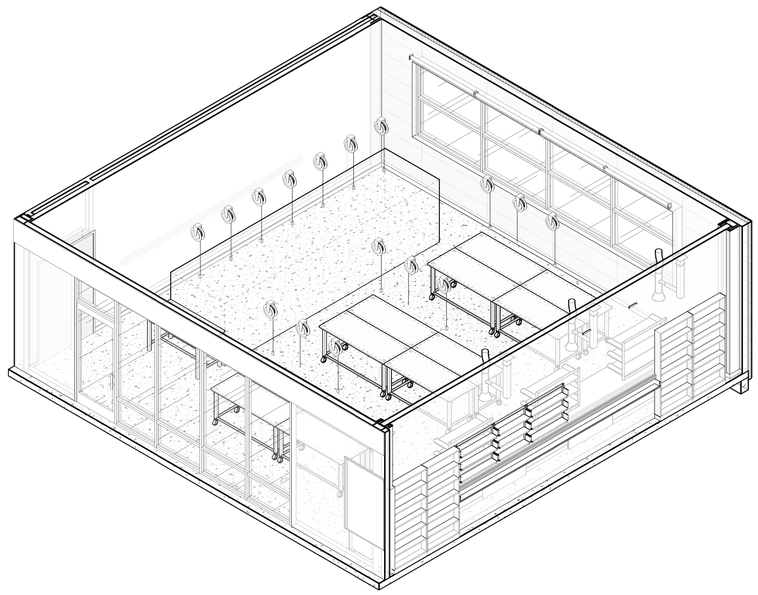
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WDG Project No: Project Number

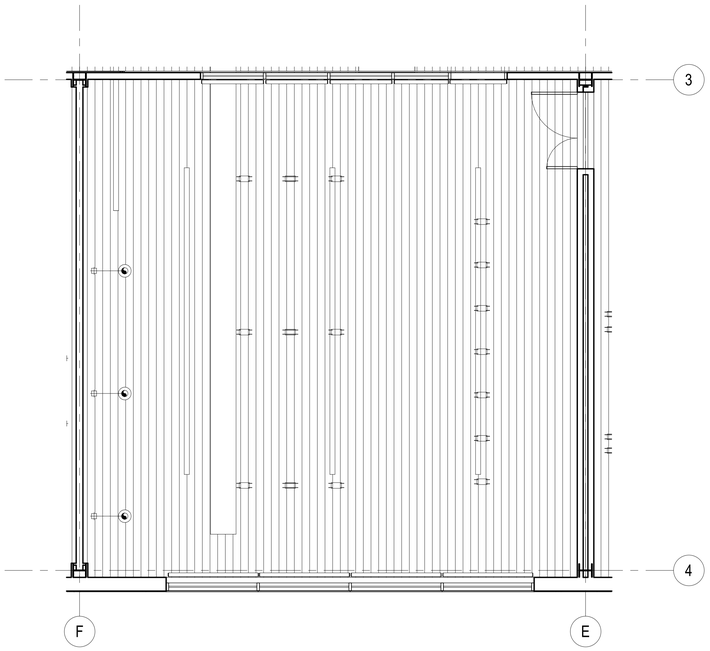
SHEET NAME

LEVEL 01 - COMPUTER / ROBOTICS ENLARGED PLAN

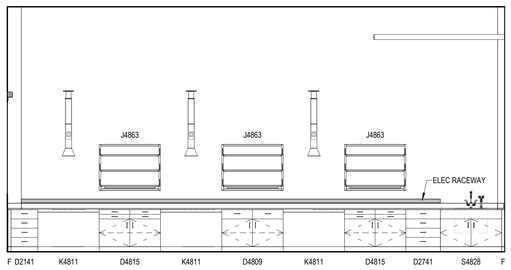
SHEET NO. QL311



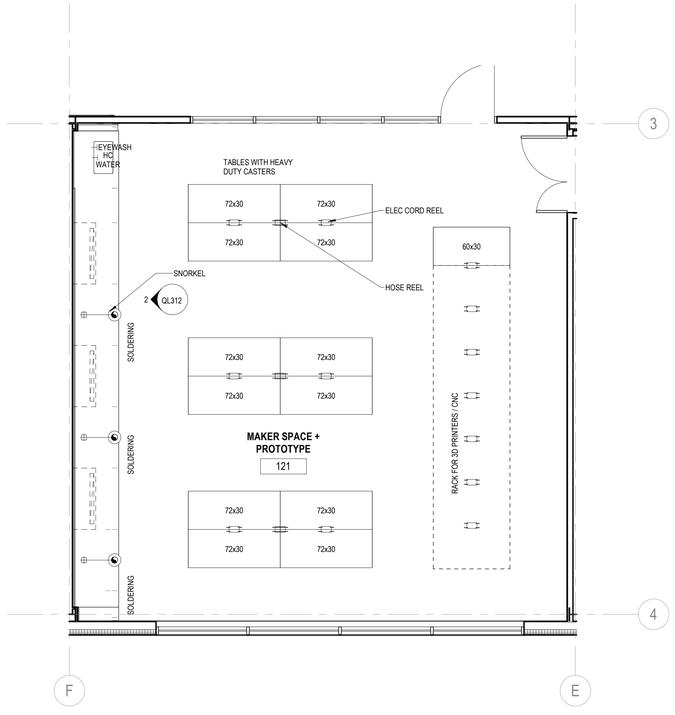
3 MAKERSPACE / PROTOTYPE AXON



4 MAKERSPACE / PROTOTYPE REFLECTED CEILING PLAN
1/4" = 1'-0"



2 MAKERSPACE / PROTOTYPE - WEST
1/4" = 1'-0"



1 LEVEL 01 - MAKER SPACE / PROTOTYPE
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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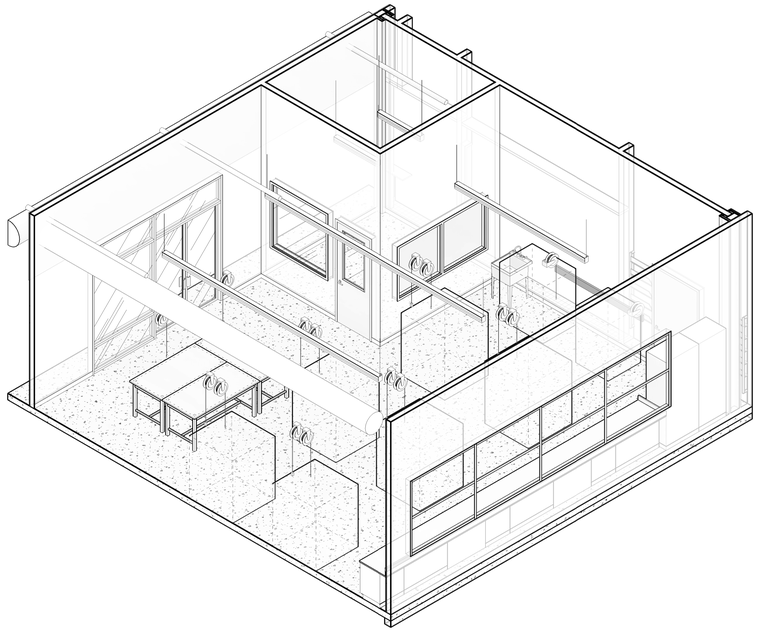
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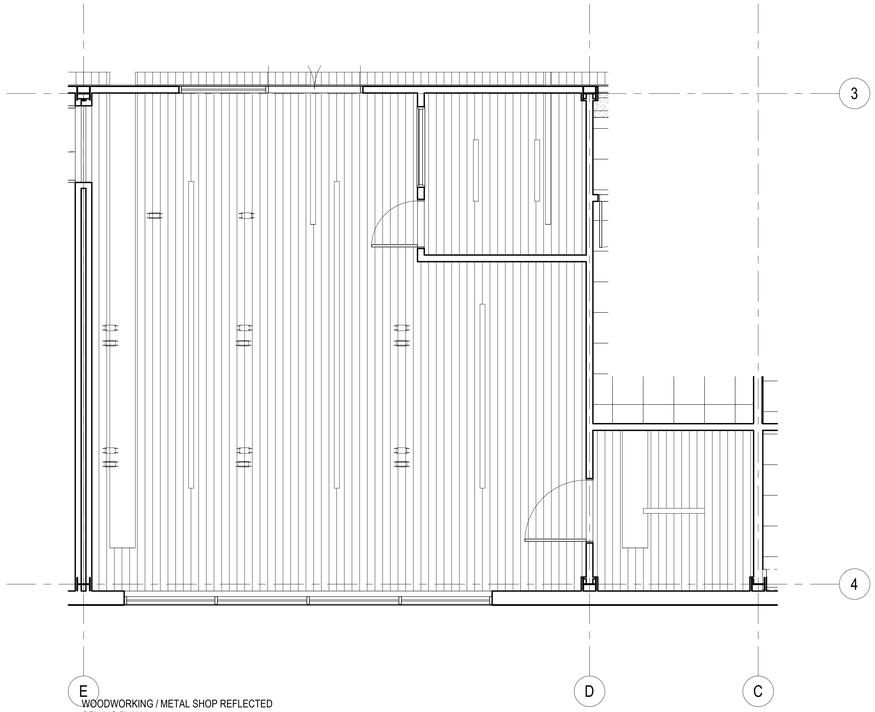
SHEET NAME

LEVEL 01 - MAKER SPACE / PROTOTYPE ENLARGED PLAN

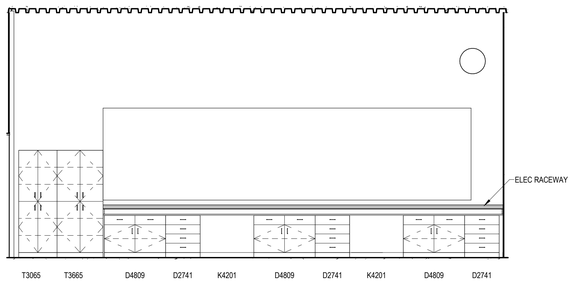
SHEET NO. QL312



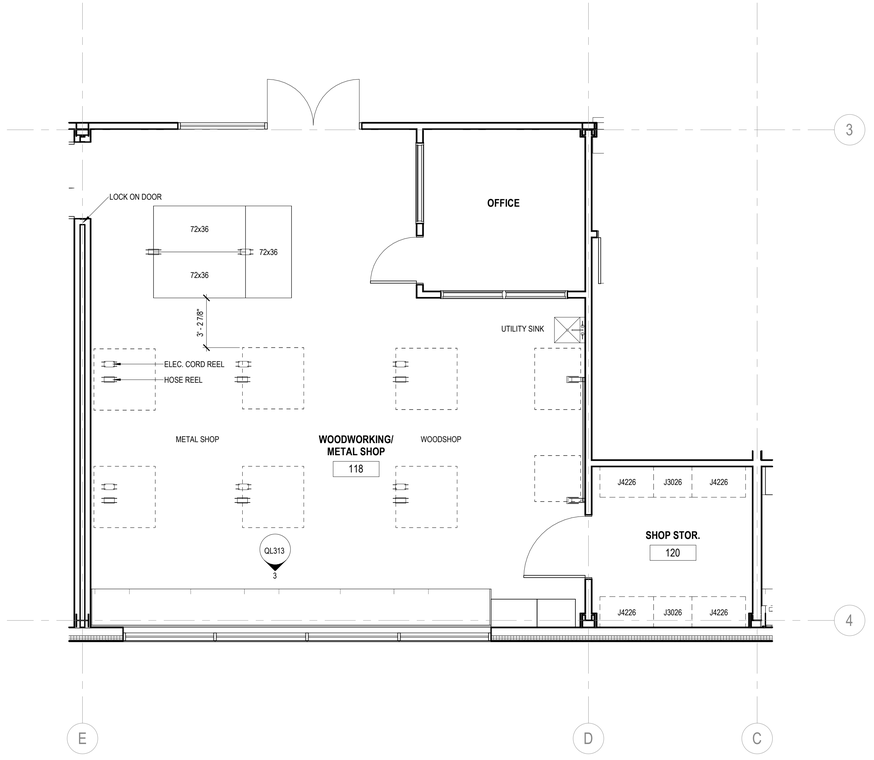
4 WOODWORKING / METAL SHOP AXON



2 WOODWORKING / METAL SHOP REFLECTED CEILING PLAN
1/4" = 1'-0"



3 WOODWORKING / METAL SHOP - SOUTH
1/4" = 1'-0"



1 LEVEL 01 - WOODWORKING / METAL SHOP
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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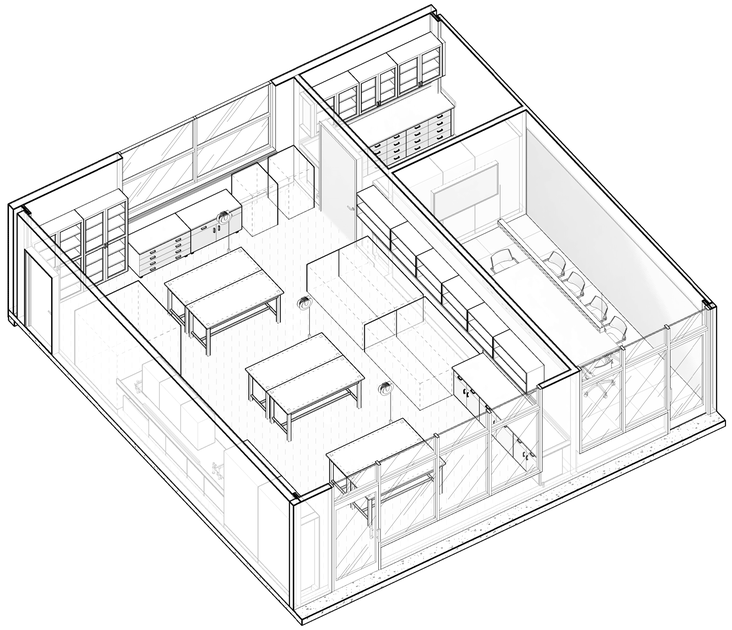
WDG Project No: Project Number

SHEET NAME

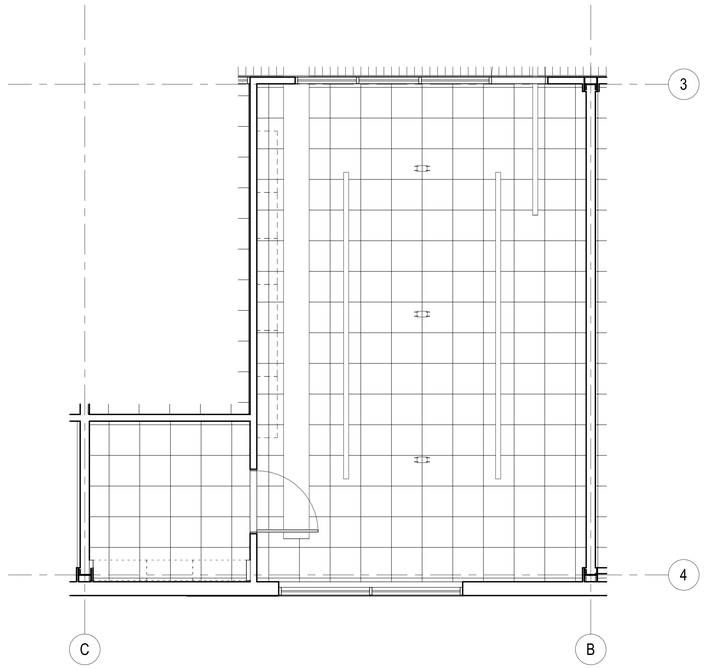
LEVEL 01 - WOODWORKING / METAL SHOP ENLARGED PLAN

SHEET NO.

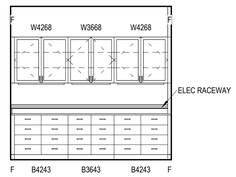
QL313



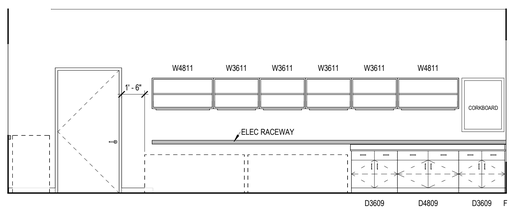
7 CRAFT LAB AXON



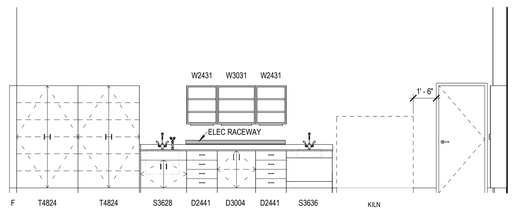
2 CRAFT LAB REFLECTED CEILING PLAN
1/4" = 1'-0"



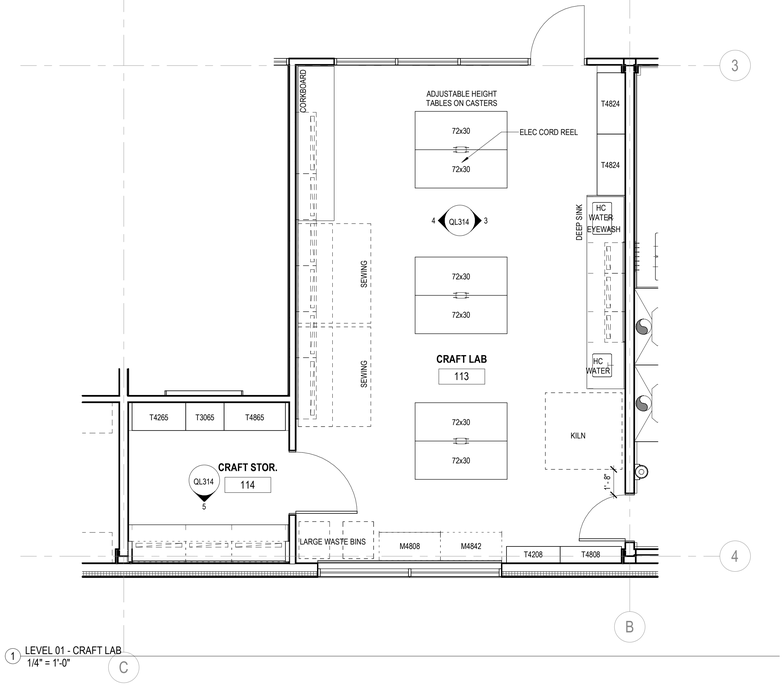
5 CRAFT STOR. - SOUTH
1/4" = 1'-0"



4 CRAFT LAB - WEST
1/4" = 1'-0"



3 CRAFT LAB - EAST
1/4" = 1'-0"



1 LEVEL 01 - CRAFT LAB
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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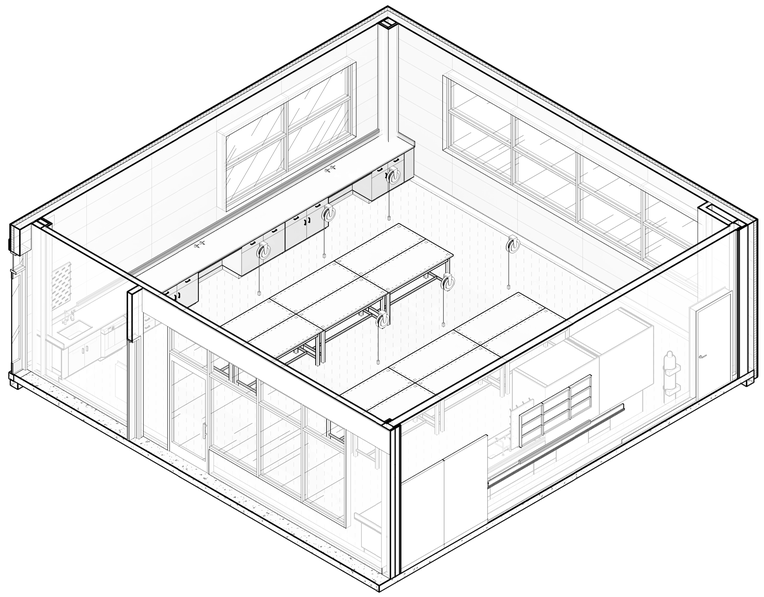
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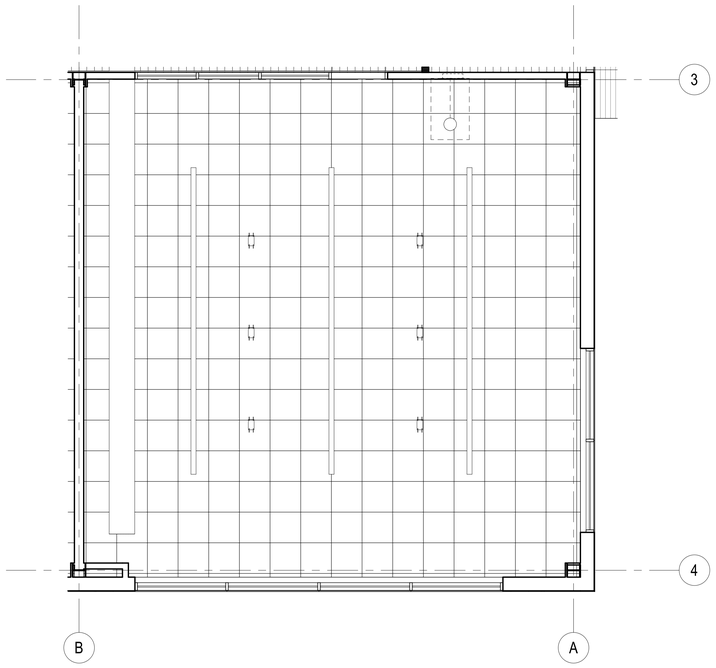
SHEET NAME

LEVEL 01 - CRAFT LAB ENLARGED PLAN

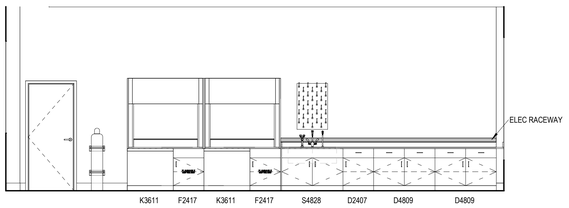
SHEET NO. QL314



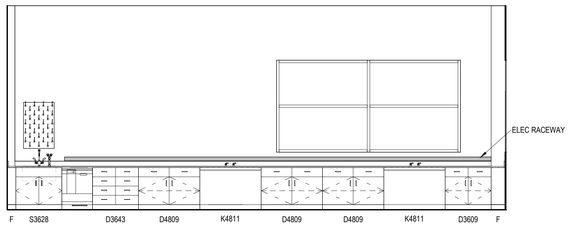
5 WET LAB



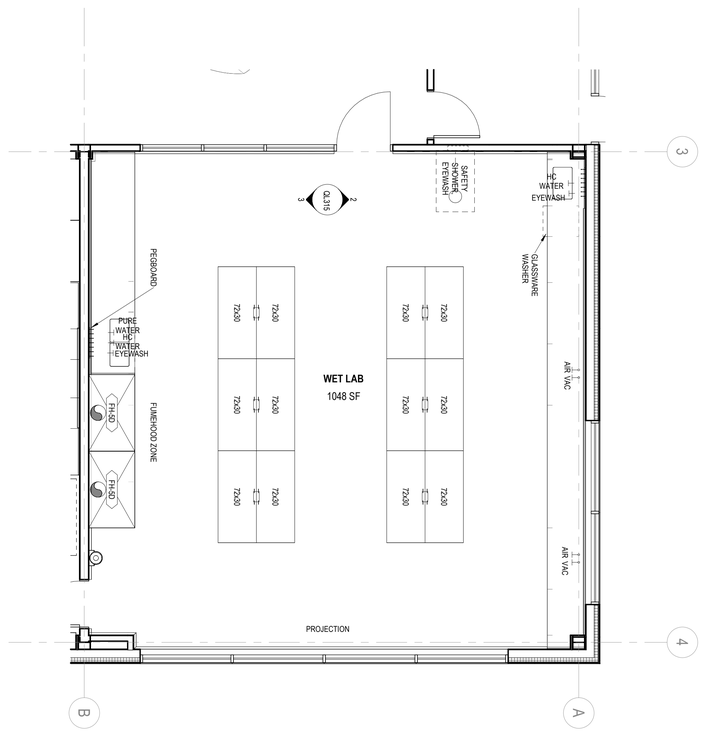
4 WET LABORATORY REFLECTED CEILING PLAN
1/4" = 1'-0"



3 WET LAB -WEST
1/4" = 1'-0"



2 WET LAB - EAST
1/4" = 1'-0"



1 LEVEL 01 - WET LAB
1/4" = 1' - 0"

GENERAL NOTES

SHEET NOTES

LEGEND

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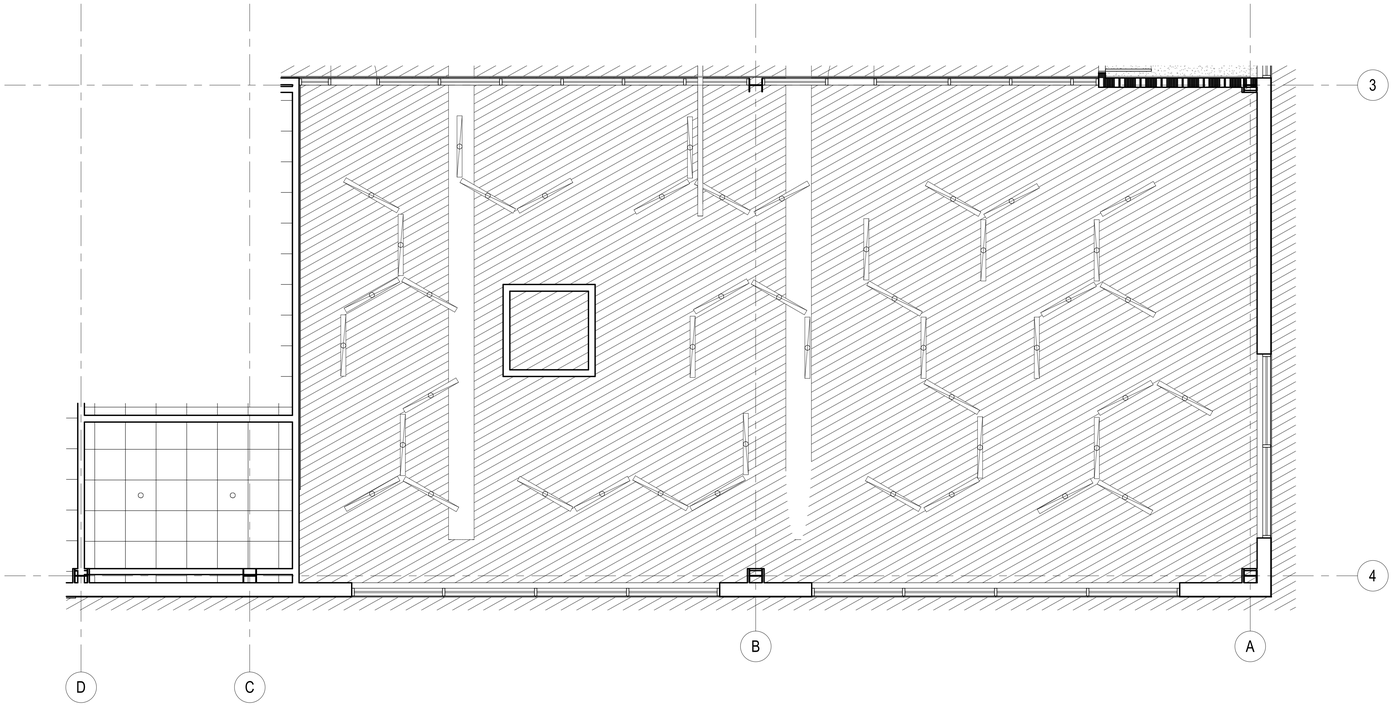
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WDG Project No: Project Number

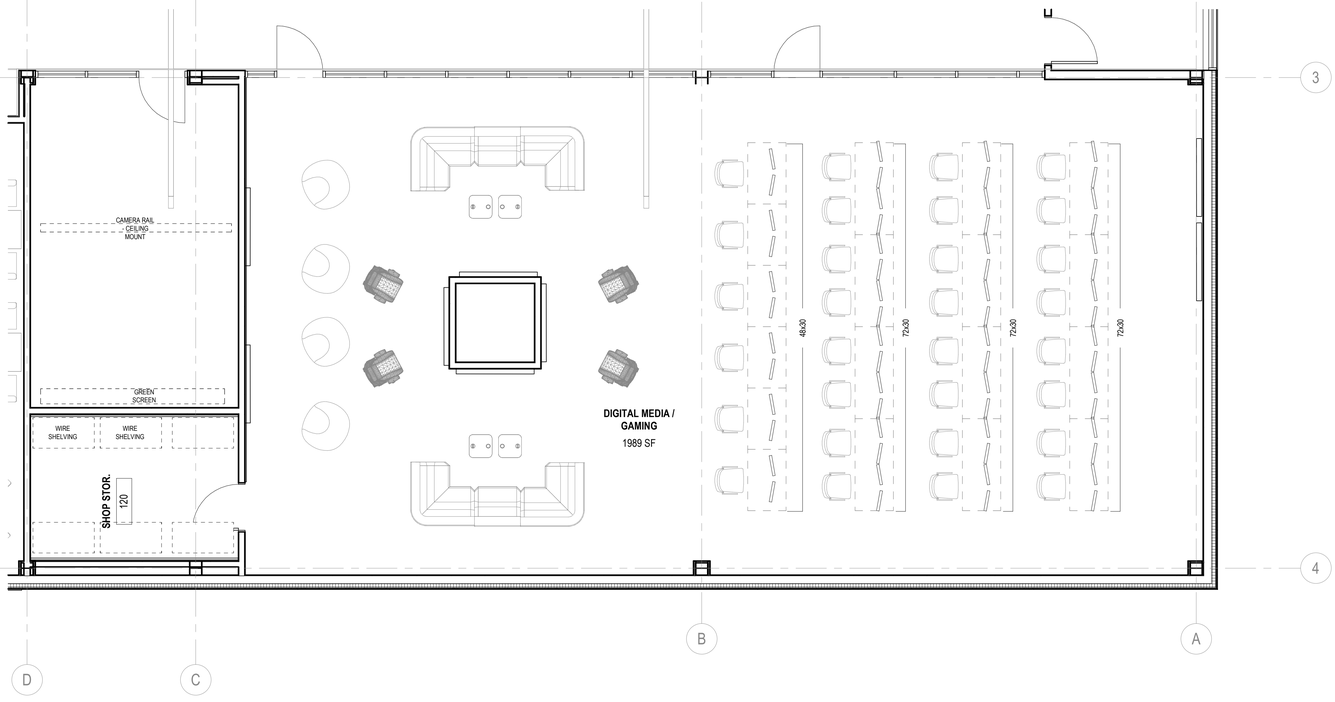
SHEET NAME

FIRST FLOOR- WET LAB ENLARGED PLAN

SHEET NO. QL315



2 DIGITAL MEDIA REFLECTED CEILING PLAN
1/4" = 1'-0"



1 LEVEL 02 - DIGITAL MEDIA
1/4" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
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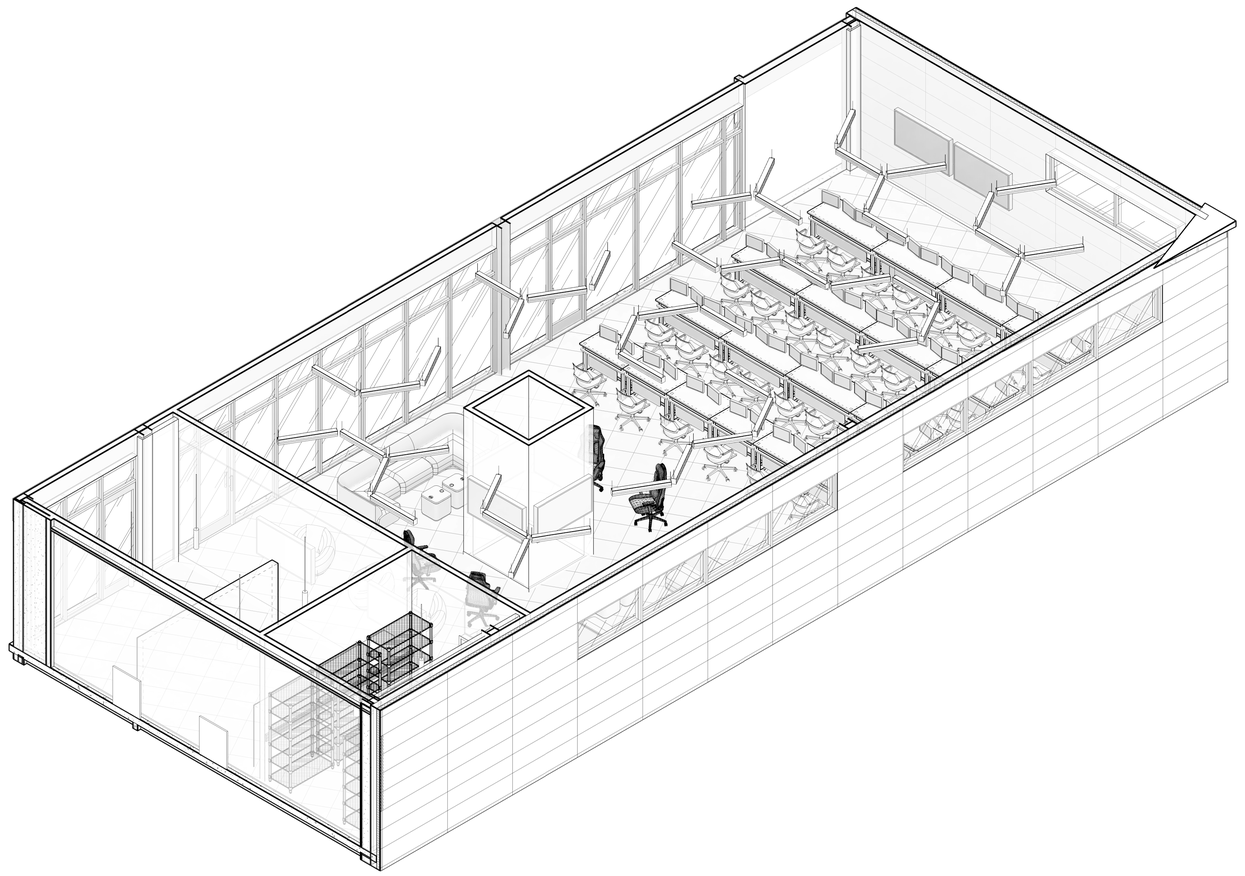
NOT FOR CONSTRUCTION

WDG Project No: Project Number

SHEET NAME

SECOND FLOOR- DIGITAL MEDIA ENLARGED PLAN

SHEET NO. QL316



1 DIGITAL MEDIA AXON

GENERAL NOTES

SHEET NOTES

LEGEND

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WDG Project No: Project Number

SHEET NAME

DIGITAL MEDIA AXONOMETRIC

SHEET NO. QL317

1 S001 GENERAL NOTES

1. EXISTING UTILITIES:
IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION OR FABRICATION. ANY CONFLICTS OR POTENTIAL CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

2. DRILLING HOLES FOR ANCHORS AND CORING HOLES IN EXISTING CONCRETE:
A. PRIOR TO DRILLING OR CORING HOLES, THE CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL, POST-TENSIONING, CONDUIT, PIPING, ETC. IN THE AREA WHERE NEW HOLES ARE TO BE INSTALLED THROUGH NON-DESTRUCTIVE TESTING SUCH AS WITH AN X-RAY, RADAR, OR WITH OTHER NON-DESTRUCTIVE DEVICES.
B. MARK THE LOCATION & EXTENTS OF ALL REINFORCING STEEL, POST-TENSIONING, CONDUIT, PIPING, AND OTHER EXISTING INTERFERENCES ON THE SURFACE OF THE SLAB.
C. IF NEW HOLE LOCATIONS CONFLICT WITH EXISTING EMBEDDED ELEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE INSTALLING THE NEW HOLES.
D. VERIFY NO CONFLICTS EXIST AT NEW HOLE LOCATIONS BY SMALL DRILLED PILOT HOLES. IF NO CONFLICTS EXIST, COMPLETE THE INSTALLATION. IN THE CASE OF STEEL TO BE FASTENED TO THE CONCRETE WITH MULTIPLE ANCHORS, FABRICATE, FROM A FIELD TEMPLATE, THE STEEL TO BE FASTENED TO THE CONCRETE BY THE ANCHORS AND COMPLETE THE INSTALLATION.
E. WHEN INSTALLING NEW HOLES, CARE SHALL BE EXERCISED SO AS NOT TO NICK OR CUT EXISTING EMBEDDED ELEMENTS.

3. DAMAGE TO EXISTING CONSTRUCTION:
ALL WORK SHALL BE DONE IN A MANNER WHICH WILL NOT DAMAGE ADJACENT EXISTING CONSTRUCTION WHICH IS TO REMAIN.

4. VAPOR BARRIER:
A. UNLESS OTHERWISE STATED IN SPECIFICATIONS, PROVIDE OPAQUE, 15 MIL POLYETHYLENE VAPOR BARRIER CONFORMING TO ASTM E1745 ON TOP OF FILL UNDER ALL INTERIOR SLABS AND BEAMS. OMIT ON TOP OF PILES.
B. FOLLOW MANUFACTURER'S RECOMMENDATIONS AND USE MANUFACTURER'S RECOMMENDED ADHESIVE AND PRESSURE-SENSITIVE TAPE FOR SEALING HOLES AND JOINTS IN VAPOR BARRIER.
C. SHALL BE NEATLY PLACED, FOLLOW THE PROFILE OF THE BOTTOM OF THE SLAB AND BEAMS, AND BE IN INTIMATE CONTACT WITH THE FILL.

5. PILES (LARGER TIMBER PILES):
ASTM D25 TREATED TIMBER PILES
A. TIP PENETRATION BELOW FIRST FLOOR ELEVATION: 40 ft.
B. MINIMUM TIP DIAMETER: 7"
C. MINIMUM DIAMETER 3'-0 FROM BUTT: 12"
D. TREATMENT: C.C.A., 80 PCF RETENTION PER AWPA SPECIFICATIONS.
E. CUT-OFF TREATMENT: BRUSH TREAT TOP OF PILE WITH COPPER NAPTHENATE CONFORMING TO AWPA SPECIFICATION M4.
F. FOLLOWING: PILES MAY BE FOLLOWED. ALLOW 1'-0" FOR CUT-OFF.
G. PREDRILL: 8 ft , 8"ø FOUR BLADE FISHTAIL BIT.
H. HAMMER: NO. 1 VULCAN (15,000 FT.-LBS)
I. EXPLORATORY PILES: 7 (6 SHOWN, 1 T.B.D.)
J. LOAD TEST: 1
K. DESIGN LOAD: 25 TONS COMPRESSION; 11 TONS TENSION

6. CONCRETE:
A. ACI 301-10 SPECIFICATIONS
B. NORMAL WEIGHT CONCRETE: 150 PCF
C. LIGHTWEIGHT CONCRETE: 115 PCF
D. COMPRESSIVE STRENGTH AT 28 DAYS: 4,000 PSI

7. REINFORCING STEEL:
A. REINFORCING BARS: ASTM A615, GRADE 60 OR 75
B. WELDABLE REINFORCING BARS: ASTM A706, GRADE 60
C. WELDED WIRE MESH: ASTM A1064
D. CONTRACTOR SHALL INCLUDE IN THE COST OF HIS BID, AN ADDITIONAL 2 TONS OF REINFORCING STEEL. THIS COST SHALL INCLUDE FABRICATION, TRANSPORTATION, INSTALLATION, ETC. OF ADDITIONAL REINFORCING STEEL. COST OF ADDITIONAL REINFORCING STEEL NOT UTILIZED DURING CONSTRUCTION WILL BE CREDITED BACK TO THE OWNER VIA CHANGE ORDER AT THE UNIT PRICE PROVIDED ON THE BID FORM.

8. REINFORCING CLEARANCES REQUIRED FOR STRUCTURALLY SUPPORTED CONCRETE ARE AS FOLLOWS:
ACI 117 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, REINFORCING CLEARANCES SHALL BE AS FOLLOWS:
A. SLABS: 3/4" CLEAR TOP & BOTTOM FORMED.
1" CLEAR BOTTOM, 3/4" CLEAR TOP ON GRADE.
B. BEAMS: 1 1/2" CLEAR BOTTOM FORMED, 3" CLEAR BOTTOM CAST ON EARTH, 1 1/2" CLEAR SIDES AND TOP FORMED, 3" CLEAR SIDES EARTH FORMED, 1-1/2" CLEAR TOP.
C. COLUMNS: 1-1/2" CLEAR, TYPICAL.
D. WALLS: 1-1/2" CLEAR, TYPICAL.

9. REINFORCING DETAILS FOR STRUCTURALLY SUPPORTED CONCRETE:
ACI 315 STANDARDS. UNLESS SPECIFICALLY NOTED OR SHOWN ON THE DRAWINGS, BAR LAPS AND CONFIGURATIONS SHALL BE AS FOLLOWS:
A. TOP BARS: HOOK AT NON-CONTINUOUS ENDS. LAP 30 DIAS. AT MID-SPAN. FOR CONTINUOUS REINFORCING NOTED ON THE CONSTRUCTION DOCUMENTS AS FULLY CONT., SEE NOTE "F".
B. BOTTOM BARS: LAP 6" AT CENTER OF SUPPORT.
C. TEMPERATURE BARS IN SLAB AND INTERMEDIATE HORIZONTAL BARS IN WALLS AND BEAMS: TENSION LAP SPLICES, SEE NOTE "F".
D. SLAB TOP REINFORCING SUPPORT BARS: SLAB TOP REINFORCING BARS LESS THAN 6 FEET IN LENGTH SHALL HAVE 2-#4 CONT. SUPPORT BARS AND SLAB TOP REINFORCING BARS GREATER THAN 6 FEET IN LENGTH SHALL HAVE #4 SUPPORT BARS EQUALLY SPACED AT NO MORE THAN 4'-0" O.C.
E. CORNER BARS: PROVIDE CORNER BARS AT EACH OUTSIDE CORNER FOR EACH HORIZONTAL BAR IN WALLS AND BEAMS. CORNER BARS SHALL LAP WITH HORIZONTAL BARS. PROVIDE "U" BARS AT WALL ENDS. LAP #3 TO #6 BARS 30" EACH WAY AND LAP #7 TO #11 BARS 48" EACH WAY. HOOK INSIDE BARS IN WALLS AT ENDS.
F. LAP SPLICE TABLE FOR FULLY CONTINUOUS REINFORCING:

LAP SPLICES (INCHES)		BAR SIZE							
	LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
SLABS	TOP	15	24	36	48	78	96	117	140	165
	OTHER	12	19	28	37	60	74	90	108	127
OTHER	TOP	24	32	40	48	70	80	91	102	113
	OTHER	19	25	31	37	54	62	70	79	87

NOTE:
REQUIRED TENSION LAP SPLICE LENGTHS FOR f'c=4,000 PSI. FOR HIGHER OR LOWER VALUES OF f'c. LAP LENGTHS MAY BE ADJUSTED ACCORDINGLY. SUBMIT PROPOSED LENGTHS FOR APPROVAL.

10. CONDUITS AND PIPES EMBEDDED IN CONCRETE:
A. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO CONCRETE SHALL BE PERMITTED TO BE EMBEDDED IN CONCRETE WITH APPROVAL OF THE ENGINEER, PROVIDED THAT REGULATIONS ARE FOLLOWED AS OUTLINED IN THE APPLICABLE ACI CODES.
B. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A SLAB OR BEAM SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF CONSTRUCTION AS DETERMINED BY THE ENGINEER.
C. SINGLE CONDUITS AND PIPES OR INTERSECTING CONDUITS AND PIPES SHALL NOT OCCUPY MORE THAN AN 11/2" OF SLAB THICKNESS AND 1/3 THE OVERALL THICKNESS OF BEAMS IN WHICH THEY ARE EMBEDDED, AND THEY SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS OR WIDTHS ON CENTER. ANY CONDUIT OR PIPE LARGER SHALL BE LOCATED BELOW THE RESPECTIVE SLAB OR BEAM. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, A DIAGRAM DEPICTING THE HOME RUNS OF CONDUIT TO ALL PANELS, TYPICAL.
D. IT WILL NOT BE PERMITTED TO CUT, BEND, OR DISPLACE THE REINFORCING STEEL FROM ITS PROPER LOCATION IN ORDER TO INSTALL CONDUITS AND PIPES.
E. COORDINATION MUST BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.

11. STRUCTURAL STEEL:
A. A.I.S.C. SPECIFICATIONS; STEEL CONSTRUCTION MANUAL 14TH EDITION; ALL WIDE FLANGE SHAPES ASTM A992 GRADE 50, ALL MISCELLANEOUS SHAPES ASTM A36, HSS SHAPES ASTM A500 GRADE B Fy=46 ksi, STEEL PIPE ASTM A53 GRADE B Fy=35 ksi, HIGH STRENGTH BOLTS A325, 3/4"ø MIN. EXCEPT AS NOTED OTHERWISE; ANCHOR RODS AND BOLTS ASTM F1554 GRADE 36 EXCEPT AS NOTED OTHERWISE; HEADED CONCRETE ANCHOR (H.C.A.) PER A.W.S. SPECIFICATION D1.1; DEFORMED BAR ANCHOR (D.B.A.) ASTM A496; E-70 ELECTRODES.
B. ALL BEAM CONNECTIONS SHALL BE A.I.S.C. STANDARD FRAMED CONNECTIONS. SHOP CONNECTIONS SHALL BE WELDED. FIELD CONNECTIONS SHALL BE BOLTED, EXCEPT CONNECTIONS TO EXISTING CONSTRUCTION SHALL BE WELDED. CONNECTIONS NOT SCHEDULED OR DETAILED OTHERWISE TO BE DESIGNED FOR 1/2 UNIFORM LOAD BEAM CAPACITY FOR PROPER BEAM SPAN AND 2/3 UNIFORM LOAD BEAM CAPACITY FOR PROPER BEAM SPAN FOR COMPOSITE BEAMS.
C. ALL STRUCTURAL STEEL ITEMS AND RESPECTIVE ANCHORS AND FASTENERS PERMANENTLY EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123. PROVIDE VENT HOLES AS REQUIRED. TOUCH UP ALL DAMAGED COATING WITH HOT STICK GALVANIZING PER ASTM A780. SEE ARCHITECT FOR PAINTING.
D. CONTRACTOR SHALL INCLUDE IN THE COST OF HIS BID, AN ADDITIONAL 3 TONS OF STRUCTURAL STEEL. THIS COST SHALL INCLUDE FABRICATION, TRANSPORTATION, INSTALLATION, ETC. OF ADDITIONAL STRUCTURAL STEEL. COST OF ADDITIONAL STRUCTURAL STEEL NOT UTILIZED DURING CONSTRUCTION WILL BE CREDITED BACK TO THE OWNER VIA CHANGE ORDER AT THE UNIT PRICE PROVIDED ON THE BID FORM.

12. METAL FLOOR DECK (COMPOSITE):
1.5VL18 GALVANIZED STEEL COMPOSITE TYPE DECK BY VULCRAFT OR APPROVED EQUAL. CONTINUOUS OVER 3 OR MORE SPANS.
A. DECK PROPERTIES
1. DEPTH: 1.5"
2. GAGE: 18
3. MIN. SECTION MODULUS (POSITIVE): 0.311 IN³ / PER FT.
4. MIN. SECTION MODULUS (NEGATIVE): 0.324 IN³ / PER FT.
5. MIN. MOMENT OF INERTIA (POSITIVE): 0.272 IN⁴ / PER FT.
6. MIN. MOMENT OF INERTIA (NEGATIVE): 0.295 IN⁴ / PER FT.
7. DESIGN THICKNESS: 0.0474"
8. ALLOWABLE STRESS: 50 KSI
B. DECK FASTENING PATTERN
1. SUPPORT FASTENERS:
2. FASTENER PATTERN:
3. SIDELAP FASTENER:
4. SIDELAP FASTENERS PER SPAN:

13. METAL ROOF DECK:
3N18 GALVANIZED STEEL ROOF DECK BY VULCRAFT OR APPROVED EQUAL. DECK TO BE CONTINUOUS OVER 3 OR MORE SPANS.
A. DECK PROPERTIES
1. DEPTH: 3"
2. GAGE: 18
3. MIN. SECTION MODULUS (POSITIVE): 0.688 IN³ / PER FT.
4. MIN. SECTION MODULUS (NEGATIVE): 0.749 IN³ / PER FT.
5. MIN. MOMENT OF INERTIA (POSITIVE): 1.238 IN⁴ / PER FT.
6. MIN. MOMENT OF INERTIA (NEGATIVE): 1.430 IN⁴ / PER FT.
7. DESIGN THICKNESS: 0.0474"
8. ALLOWABLE STRESS: 33 KSI
B. DECK FASTENING PATTERN:
1. SUPPORT FASTENERS:
2. SUPPORT FASTENER PATTERN:
3. SIDELAP FASTENERS:

14. BAR GRADING:
A. MATERIAL:
B. GRATING FINISH/COATING: ___
C. DEPTH OF BEARING BAR: ___"
D. SPACING OF BEARING BAR: ___"
E. THICKNESS OF BEARING BAR: ___"
F. SECTION MODULUS: ___ IN
G. MOMENT OF INERTIA: ___ IN
J. MINIMUM YIELD STRENGTH: ___ KSI
K. CONNECTIONS: __ TYPE CONNECTORS SPACED AT __ " O.C.

15. MECHANICAL EQUIPMENT:
A. PRIOR TO THE DETAILING OF ANY STRUCTURAL MATERIALS INVOLVED IN THE SUPPORT OF MECHANICAL EQUIPMENT, THE CONTRACTOR SHALL FURNISH TO THE ARCHITECT ALL INFORMATION RELATIVE TO LOADS, LOAD POINTS, DIMENSIONS, ETC. OF THE ACTUAL EQUIPMENT WHICH IS TO BE FURNISHED.
B. ALL DETAILS AND MEMBER SIZES SHOWN ON THE STRUCTURAL DRAWINGS ARE TENTATIVE UNTIL SUCH TIME AS THIS INFORMATION IS REVIEWED BY THE ARCHITECT.
C. LOCATION OF SUPPORT BEAMS TO BE VERIFIED AND/OR COORDINATED BY THE GENERAL CONTRACTOR WITH FINAL MECHANICAL EQUIPMENT LOCATIONS, SIZES, AND CONNECTION POINTS.
D. CONNECTIONS OF ALL EQUIPMENT TO THE STRUCTURE PROVIDED ON THESE DRAWINGS IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, THROUGH DELEGATED DESIGN BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. ALTERNATELY, PUBLISHED COMPLIANCE WITH ALL PROJECT SPECIFIC WIND AND SEISMIC LOADS BY THE EQUIPMENT MANUFACTURER WILL BE ACCEPTED.
E. ALL COST ASSOCIATED WITH CHANGES TO BASIS OF DESIGN EQUIPMENT RESULTING IN REQUIRED CHANGES TO THE STRUCTURE WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
F. COORDINATION MUST BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO FOLLOW THE ABOVE GUIDELINES.

16. WELDING PRECAUTIONS:
A. FIRE PREVENTION: AT ALL TIMES DURING WELDING AND TORCH CUTTING IN THE EXISTING BUILDING THE CONTRACTOR SHALL HAVE ADEQUATE FIRE FIGHTING EQUIPMENT READY FOR USE AT THE LOCATION OF THE WELDING. THE WELDING AND TORCH CUTTING PROCESS SHALL BE CLOSELY OBSERVED AND MONITORED BY THE CONTRACTOR SO AS TO PREVENT THE IGNITING OF ANY COMBUSTIBLES IN THE CONSTRUCTION AREA. OBSERVATIONS SHALL CONTINUE FOR AT LEAST 4 HOURS AFTER WELDING IN A PARTICULAR AREA HAS CEASED.
B. PROVIDE ADEQUATE VENTILATION AS TO TOTALLY EXHAUST WELDING FUMES OUT OF THE CONSTRUCTION AREA SO AS NOT TO CONTAMINATE ANY PORTION OF THE EXISTING BUILDING.

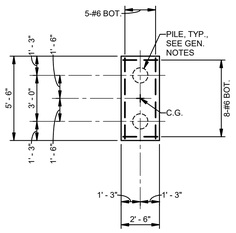
17. POST INSTALLED ANCHORS TO HARDENED CONCRETE:
A. IN THE INSTALLATION OF ANCHORS, CARE SHALL BE EXERCISED SO AS NOT TO NICK OR CUT EXISTING REINFORCING, CONDUIT, ETC. SEE GENERAL NOTE 2 FOR PROCEDURE FOR DRILLING HOLES IN EXISTING CONCRETE.
B. UNLESS NOTED OTHERWISE, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. OR APPROVED EQUAL:
1. ANCHORAGE TO CONCRETE:
a. ADHESIVE ANCHORS : HILTI HIT-HY 200 SAFE SET SYSTEM WITH HAS-E THREADED ROD.
b. REBAR DOWELING: HILTI HIT-HY 200 SAFE SET SYSTEM.
c. EXPANSION ANCHORS: HILTI KWIK BOLT-TZ2
2. ANCHORAGE TO SOLID GROUTED MASONRY: HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM
3. ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY: HILTI HIT-HY 270 MASONRY ADHESIVE ANCHORING SYSTEM
C. INSTALL ANCHORS AS PER THE MANUFACTURER'S INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
D. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.
E. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURE'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
F. ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALLATION OF ANCHORS SHALL BE IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE CONTRACT DRAWINGS.

18. OTHER WORK:
COORDINATE ALL OTHER WORK WITH STRUCTURAL. UNLESS DETAILED OR SPECIFIED, THE ARCHITECT IS TO APPROVE ALL OPENINGS, SLEEVES, EMBEDDED ITEMS ETC. INVOLVED IN STRUCTURAL WORK PRIOR TO THEIR BEING SET. DO NOT CUT OR DRILL HOLES IN STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT. ALL SUCH ITEMS SHALL NOT IMPAIR THE STRUCTURAL INTEGRITY OF THE MEMBER AS DETERMINED BY THE ENGINEER OF RECORD.

19. DESIGN LOADS AND OTHER PERTINENT DESIGN INFORMATION:
A. BUILDING CODE: INTERNATIONAL BUILDING CODE 2021 / ASCE 7-16
B. FLOOR LIVE LOAD
1. ___ PSF
C. ROOF LIVE LOAD
1. 20 PSF
D. ROOF SNOW LOAD
1. GROUND SNOW LOAD (Pg): 0 PSF
E. WIND LOAD
1. WIND SPEEDS: Vult = 143 MPH; Vasd = 107 MPH
2. RISK CATEGORY: II
3. WIND EXPOSURE CATEGORY: B
4. INTERNAL PRESSURE COEFFICIENT: ±0.18
5. EDGE WIDTH "a": ___ FEET
6. COMPONENTS AND CLADDING PRESSURES:

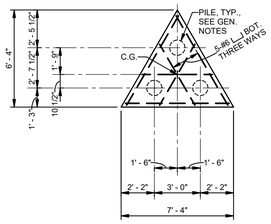
COMPONENTS AND CLADDING DESIGN PRESSURES (PSF)												
EWA (FT²) \ ZONE	1		2		3		4		5		OVERHANG 2	OVERHANG 3
≤ 10	16	-64	16	-84	16	-114	36	-39	36	-48	-78	-108
20	16	-60	16	-79	16	-104	34	-37	34	-45	-71	-95
50	14	-54	14	-71	14	-89	33	-35	33	-41	-61	-80
100	13	-50	13	-66	13	-79	31	-34	31	-38	-54	-67
200	13	-45	13	-61	13	-68	29	-32	29	-34	-47	-54
≥500	13	-40	13	-53	13	-53	27	-30	27	-30	-37	-37
≥1000	13	-40	13	-53	13	-53	27	-30	27	-30	-37	-37

NOTES:
1.) EWA IS EFFECTIVE WIND AREA OF A STRUCTURAL COMPONENT.
2.) FOR ZONE DEFINITIONS, SEE ASCE 7-16 FIGURES 30.3-1 & 30.3-2A.
3.) PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
4.) WIND PRESSURES ABOVE ARE BASED ON Vult.



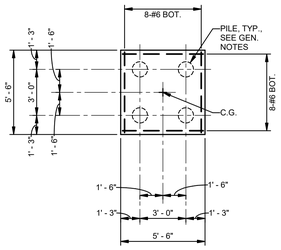
DEPTH: 2'-0"

2 S001 DETAIL-2 PILE CAP (2PA)
1/4" = 1'-0"



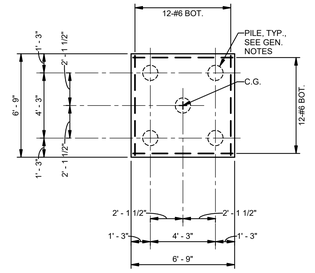
DEPTH: 2'-0"

3 S001 DETAIL-3 PILE CAP (3PA)
1/4" = 1'-0"



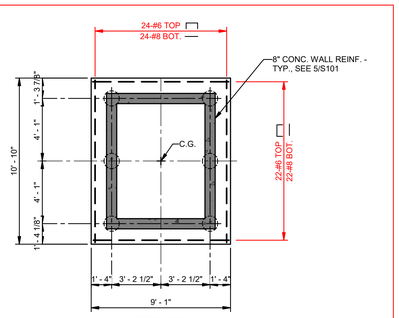
DEPTH: 2'-3"

4 S001 DETAIL-4 PILE CAP (4PA)
1/4" = 1'-0"



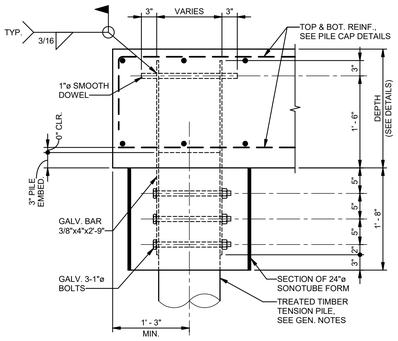
DEPTH: 2'-3"

5 S001 DETAIL-5 PILE CAP (5PA)
1/4" = 1'-0"



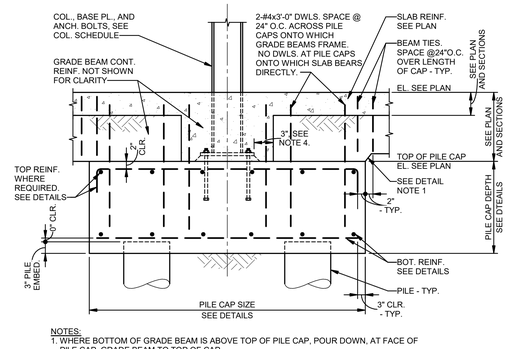
DEPTH: 3'-0"

6 S001 PLAN DETAIL - 6 PILE CAP (6PA)
1/4" = 1'-0"



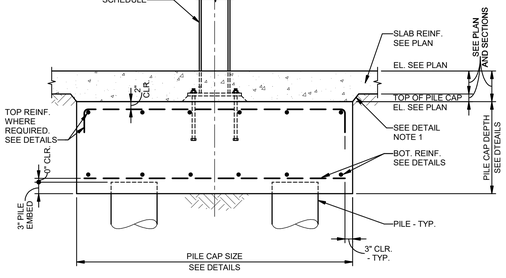
ENGINEERING NOTE: DELETE AFTER ADDED TO DRAWING:
17,250lb. ALLOWABLE CAPACITY BASED ON DOWELS.

7 S001 DETAIL-TREATED TIMBER TENSION PILE
NTS



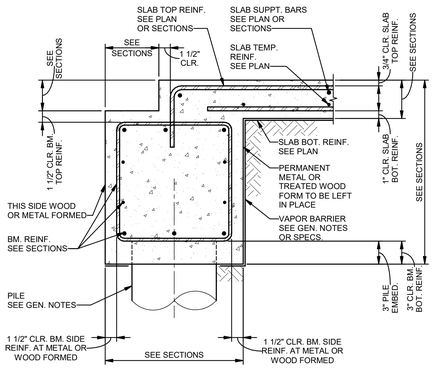
NOTES:
1. WHERE BOTTOM OF GRADE BEAM IS ABOVE TOP OF PILE CAP, POUR DOWN, AT FACE OF PILE CAP, GRADE BEAM TO TOP OF CAP.
2. ALL SIDES OF PILE CAP TO BE FORMED.
3. PROVIDE 1"ø HOLES IN STEEL COLUMN WEB TO ALLOW GRADE BEAM TOP REINFORCING TO PASS THROUGH UNINTERRUPTED. OFFSET TOP REINFORCING ON 1:6 SLOPE (IN PLAN) TO AVOID STEEL COLUMN FLANGES. IT WILL BE ALLOWABLE TO OMIT 6" LAP REQUIREMENT AT 50 OF BOTTOM BARS AT ANY COLUMN DUE TO INTERFERENCES. ALL MODIFICATIONS TO BE SHOWN ON SHOP DRAWINGS.
4. WIDEN INTERIOR FACE(S) OF CONCRETE GRADE BEAM TO PROVIDE 3" MINIMUM COVER AROUND ALL STEEL (REBAR, COLUMNS, BASE PLATE, ANCHOR BOLTS, ETC.)

8 S001 DETAIL-TYPICAL PILE CAP W/ STEEL COLUMN
NTS



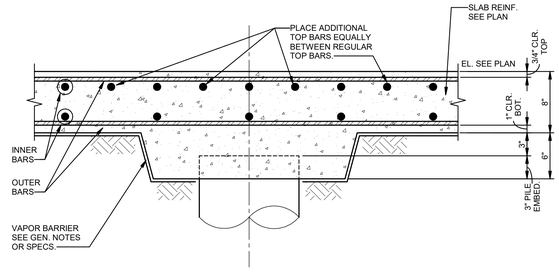
NOTES:
1. WHERE BOTTOM OF GRADE BEAM IS ABOVE TOP OF PILE CAP, POUR DOWN, AT FACE OF PILE CAP, GRADE BEAM TO TOP OF CAP.
2. ALL SIDES OF PILE CAP TO BE FORMED.

9 S001 DETAIL-TYPICAL PILE CAP W/ STEEL COLUMN
NTS



NOTES:
1. DETAIL SHOWN IS TO ILLUSTRATE REINFORCEMENT PLACEMENT AND OTHER BEAM DETAILS.
2. SEE PLANS, SCHEDULES, DETAILS, AND SECTIONS FOR DIMENSIONS. ELEVATIONS, AND REINFORCING SIZES AND QUANTITIES.

10 S001 DETAIL-TYPICAL EXTERIOR 1ST FLOOR CONCRETE BM. W/ LEDGE
NTS



11 S001 SECTION
NTS

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 24002

SHEET NAME
GENERAL NOTES

SHEET NO. S001

09-02-25
PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

1 S002 SPECIAL INSPECTIONS

SPECIAL INSPECTIONS DEFINITIONS AND ABBREVIATIONS

DEFINITIONS AND ABBREVIATIONS

a. FREQUENCY - REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE.

b. CONT - CONTINUOUS INSPECTION. SPECIAL INSPECTOR SHALL BE ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.

c. PERIODIC - PERIODIC INSPECTION. INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED CONTRACT DOCUMENTS.

d. QC - FABRICATOR OR ERECTOR INSPECTION PERSONNEL.

e. QA - THIRD PARTY INSPECTION PERSONNEL QUALIFIED IN ACCORDANCE WITH THE LOCAL BUILDING CODE REQUIREMENTS.

f. O - OBSERVE THESE ITEMS ON A RANDOM INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PREFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS.

g. P - PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH WELDED JOINT OR MEMBER, BOLTED CONNECTION, OR COMPOSITE STEEL ELEMENT.

h. D - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

(IBC TABLE 1705.7)
REQUIRED SPECIAL INSPECTIONS TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

INSPECTION TASKS	CONTINUOUS INSPECTION	PERIODIC INSPECTION
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS.	X	-
2. DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	X	-
3. INSPECTING DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	-
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	IN ACCORDANCE WITH SECTION 1705.2	
6. FOR CONCRETE ELEMENTS AND CONCRETE FILLED ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	IN ACCORDANCE WITH STATEMENT OF SPECIAL INSPECTIONS	

(IBC TABLE 1705.3)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

INSPECTION TASKS	CONTINUOUS INSPECTION	PERIODIC INSPECTION	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	-	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	-
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWS D1.4	-
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	-	X	ACI 318: 26.6.4	
C. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	-	ACI 318: 17.8.2.4	-
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318: 17.8.2	
5. REVIEW CONCRETE MIX DESIGNS FOR COMPLIANCE WITH CONTRACT DOCUMENTS & VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT. FABRICATE SPECIMENS FOR STRENGTH TEST, PERFORM SLUMP AND AIR CONTENT TEST, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C31 ASTM C172 ACI 318: 26.5, 26.12	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	-	ACI 318: 26.5	-
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 26.5.3 - 26.5.5	-
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRESTRESSING FORCES; AND	X	-	ACI 318: 26.10	-
B. GROUTING OF BONDED PRESTRESSING TENDONS	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: 26.9	-
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTIONS OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:				
A. INSTALLATION OF THE EMBEDDED PARTS.	X	-	ACI 318: 26.13.1.3	-
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	-	ACI 550.5	
C. COMPLETION OF CONNECTIONS IN THE FIELD.	X	-		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5.	-	X	ACI 318: 26.13.1.3	-
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-
14. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-

[a] WHERE APPLICABLE, SEE SECTION 1705.13.
[b] SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL INCLUDED IN THE RESEARCH REPORT FOT THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION

INSPECTION OF WELDING

AISC 360 TABLE N5.4-1	INSPECTION TASKS PRIOR TO WELDING	QC	QA
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS		P	O
WPS AVAILABLE		P	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		P	P
MATERIAL IDENTIFICATION (TYPE/GRADE)		O	O
WELDER IDENTIFICATION SYSTEM[d]		O	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)		O	O
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		P	O
CONFIGURATION AND FINISH OF ACCESS HOLES		O	O
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)		O	O
CHECK WELDING EQUIPMENT		O	-

[d] THE FABRICATOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

AISC 360 TABLE N5.4-2	INSPECTION TASKS DURING WELDING	QC	QA
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL		O	O
NO WELDING OVER CRACKED TACK WELDS		O	O
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE		O	O
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH)		O	O
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS		O	O
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		O	O

AISC 360 TABLE N5.4-3	INSPECTION TASKS AFTER WELDING	QC	QA
WELDS CLEANED		O	O
SIZE, LENGTH AND LOCATION OF WELDS		P	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		P	P
ARC STRIKES		P	P
K-AREA [e]		P	P
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [b]		P	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		P	P
REPAIR ACTIVITIES		P	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		P	P
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE EOR		O	O

[e] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENER HAS BEEN PERFORMED IN THE *K*-AREA, VISUALLY INSPECT THE WEB *K*-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.
[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION

INSPECTION OF BOLTING

AISC 360 TABLE N5.6-1	INSPECTION TASKS PRIOR TO BOLTING	QC	QA
MANUFACTURERS CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		O	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		O	O
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		O	O
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		O	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		O	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		P	O
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		O	O

AISC 360 TABLE N5.6-2	INSPECTION TASKS DURING BOLTING	QC	QA
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED		O	O
JOINT BROUGHT TO THE SNUG TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		O	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		O	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC *SPECIFICATION*, PROGRESSING SYSTEMATICALLY FROM MOST RIGID POINT TOWARD THE FREE EDGES		O	O

AISC 360 TABLE N5.6-3	INSPECTION TASKS AFTER BOLTING	QC	QA
DOCUMENT ACCEPTED AND REJECTED CONNECTIONS		P	P

(IBC TABLE 1705.2.3)
REQUIRED SPECIAL INSPECTION OF OPEN - WEB STEEL JOISTS AND JOIST GIRDERS

INSPECTION TASKS	CONTINUOUS INSPECTION	PERIODIC INSPECTION	REFERENCED STANDARD[a]
1. INSTALLATION OF OPEN-WEB STEEL JOIST AND JOIST GIRDERS			
A. END CONNECTIONS - WELDING OR BOLTED.	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
B. BRIDGING - HORIZONTAL OR DIAGONAL.			
1. STANDARD BRIDGING	-	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	-	X	

[a] WHERE APPLICABLE, SEE SECTION 1705.13

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STEEL DECKING

SDI QA/QC TABLE 1.1	INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT	QC	QA
VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH *CONSTRUCTION DOCUMENTS*, INCLUDING PROFILES, MATERIAL PROPERTIES AND BASE METAL THICKNESS		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		PERFORM	PERFORM

SDI QA/QC TABLE 1.2	INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT	QC	QA
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES' INSTALLATION WITH *CONSTRUCTION DOCUMENTS*		PERFORM	PERFORM
VERIFY DECK MATERIALS ARE REPRESENTED BY MILL CERTIFICATIONS THAT COMPLY WITH THE *CONSTRUCTION DOCUMENTS*		N/A	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		PERFORM	PERFORM

SDI QA/QC TABLE 1.3	INSPECTION OR EXECUTION TASKS PRIOR TO WELDING	QC	QA
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		OBSERVE	OBSERVE
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		OBSERVE	OBSERVE
MATERIAL IDENTIFICATION (GRADE/TYPE)		OBSERVE	OBSERVE
CHECK WELDING EQUIPMENT		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.4	INSPECTION OR EXECUTION TASKS DURING WELDING	QC	QA
USE OF QUALIFIED WELDERS		OBSERVE	OBSERVE
CONTROL AND HANDLING OF WELDING CONSUMABLES		OBSERVE	OBSERVE
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)		OBSERVE	OBSERVE
WPS FOLLOWED		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.5	INSPECTION OR EXECUTION TASKS AFTER WELDING	QC	QA
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDE-LAP AND PERIMETER WELDS		PERFORM	PERFORM
WELDS MEET VISUAL ACCEPTANCE CRITERIA		PERFORM	PERFORM
VERIFY REPAIR ACTIVITIES		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		PERFORM	PERFORM

SDI QA/QC TABLE 1.6	INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING	QC	QA
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS		OBSERVE	OBSERVE
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION		OBSERVE	OBSERVE
PROPER STORAGE FOR MECHANICAL FASTENERS		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.7	INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING	QC	QA
FASTENERS ARE POSITIONED AS REQUIRED		OBSERVE	OBSERVE
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS		OBSERVE	OBSERVE

SDI QA/QC TABLE 1.8	INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING	QC	QA
CHECK SPACING, TYPE AND INSTALLATION OF SUPPORT FASTENERS		PERFORM	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF SIDE-LAP FASTENERS		PERFORM	PERFORM
CHECK SPACING, TYPE AND INSTALLATION OF PERIMETER FASTENERS		PERFORM	PERFORM
VERIFY REPAIR ACTIVITIES		PERFORM	PERFORM
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		PERFORM	PERFORM

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

09-02-25
PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

STEM NOLA
SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

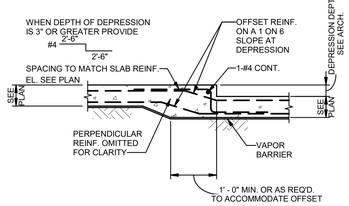
REVISIONS

NOT FOR CONSTRUCTION

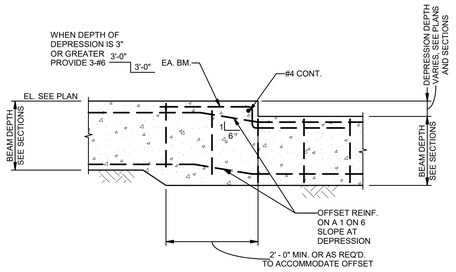
WDG Project No: 24002

SHEET NAME
SPECIAL INSPECTIONS

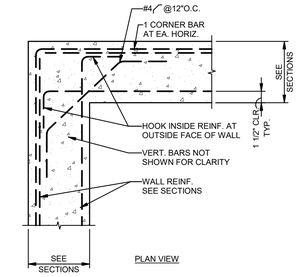
SHEET NO. S002



1 S003 DETAIL-TYPICAL SLAB DEPRESSION
NTS

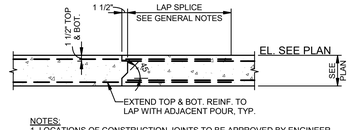


2 S003 DETAIL-CONCRETE BEAM DEPRESSION
NTS



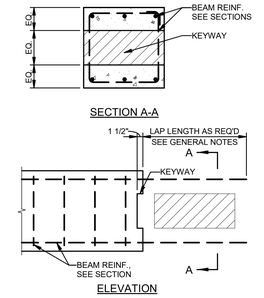
NOTES:
1. DETAIL SHOWN IS TO ILLUSTRATE REINFORCING PLACEMENT ONLY
2. SEE PLANS, DETAILS AND SECTIONS FOR DIMENSIONS, ELEVATIONS, AND MAIN WALL REINFORCING SIZES AND QUANTITIES.

3 S003 DETAIL- TYPICAL WALL REINFORCING LAYOUT
NTS

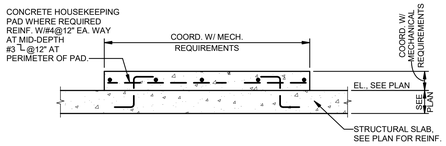


NOTES:
1. LOCATIONS OF CONSTRUCTION JOINTS TO BE APPROVED BY ENGINEER.
2. REINFORCING IN OPPOSITE DIRECTION NOT SHOWN.

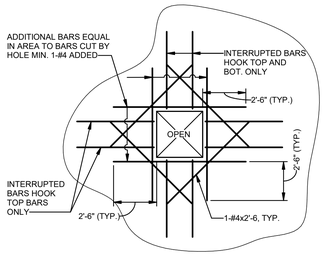
4 S003 DETAIL-TYPICAL FLOOR SLAB CONSTRUCTION JOINT
NTS



5 S003 DETAIL-TYPICAL CONCRETE BEAM BULKHEAD
NTS

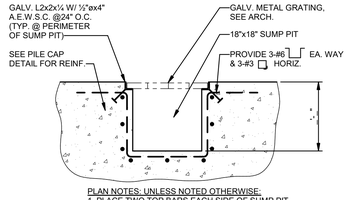


6 S003 DETAIL-HOUSEKEEPING PAD
NTS



NOTES:
1. OMIT ADDED BARS FOR HOLES 10" OR LESS AND RUN NORMAL REINFORCING BY SIDE OF HOLE.
2. WHERE HOLES ARE NEAR OR AGAINST BEAMS OR COLUMNS AND ADDED REINFORCING CANNOT BE EXTENDED AS SHOWN, HOOK AFFECTED END.
3. LOCATIONS OF ALL OPENINGS SHALL BE AS SHOWN ON ARCH. DWGS.

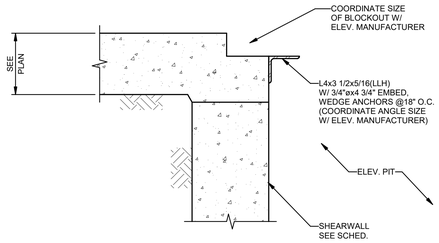
7 S003 DETAIL-TYPICAL SLAB PENETRATION
NTS



PLAN NOTES: UNLESS NOTED OTHERWISE:
1. PLACE TWO TOP BARS EACH SIDE OF SUMP PIT, EACH DIRECTION.

NOTE:
FOR USE IN PILE CAPS. DELETE AFTER ADDING TO PROJECT.

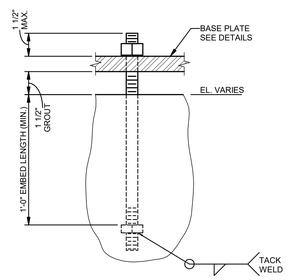
8 S003 DETAIL-TYPICAL ELEVATOR SUMP PIT
NTS



9 S003 DETAIL-TYPICAL ELEVATOR SILL
NTS

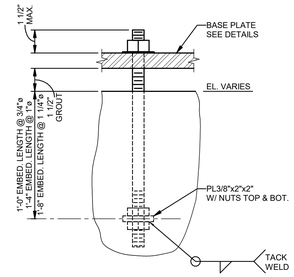
10 S003 COLUMN SCHEDULE

COLUMN DESIGNATION	-'-											
ROOF EL. SEE PLAN												
SECOND FLOOR EL. 116' - 6"	BEAM SEE PLAN W x	W x	W x	W x	W x	W x	W x	W x	W x	W x	W x	W x
FIRST FLOOR EL. 100' - 0"												
TOP OF PILE CAP EL. SEE PLAN												
BASE PLATE	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_	SEE _/S_



NOTES: UNLESS NOTED OTHERWISE:
1. ALL ANCHOR BOLTS ASTM F1554 GR 36.
2. PROVIDE LEVELING NUTS AS REQ'D TO SUPPORT BASEPLATE.
3. PROVIDE PLATE WASHERS AT ALL OVERSIZED HOLES PER AISC DG1, TABLE 2.3.

11 S003 DETAIL-ANCHOR BOLT TYPE 1
NTS



NOTES: UNLESS NOTED OTHERWISE:
1. ALL ANCHOR BOLTS ASTM F1554 GR 36.
2. PROVIDE LEVELING NUTS AS REQ'D TO SUPPORT BASEPLATE.
3. PROVIDE PLATE WASHERS AT ALL OVERSIZED HOLES PER AISC DG1, TABLE 2.3.

12 S003 DETAIL-ANCHOR BOLT TYPE 2
NTS

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

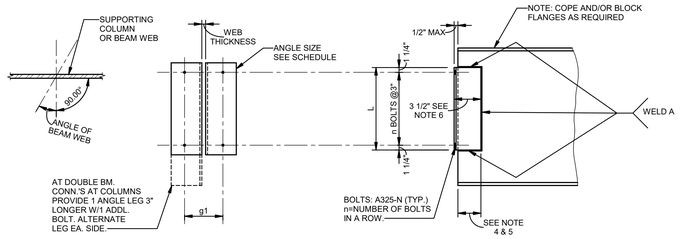
WDG Project No: 24002

SHEET NAME
TYPICAL DETAILS

SHEET NO. S003

09-02-25
PRELIMINARY PROGRESS SET
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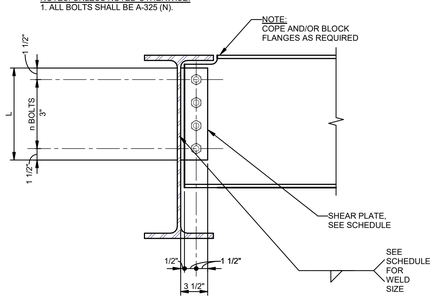
1 S004 TYPICAL BEAM TO BEAM AND BEAM TO COLUMN CONNECTION SCHEDULE AND DETAIL



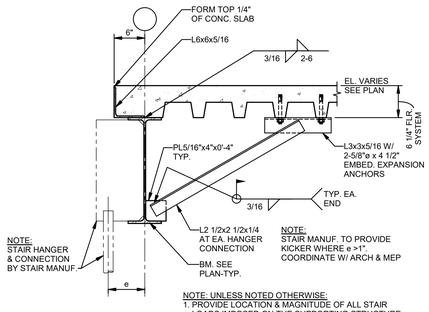
NOTES:
1. WHERE BEAMS AND GIRDERS FRAME INTO A W8 COLUMN OR THE WEB OF A W10 COLUMN, ANGLE SIZE 3x3x5AME THICKNESS SHALL BE USED AND g1 SHALL BE DECREASED 1 1/2" TYPICALLY.
2. FOR CHANNEL CONNECTIONS, USE ANGLE AND BOLTS FOR SIMILAR DEPTH BEAM SHOWN BELOW.
3. FOR ANGLES 0° TO 14° FROM PERPENDICULAR, ANGLES SHALL BE BENT.
4. FOR ANGLES 14° TO 33.7° FROM PERPENDICULAR, PROVIDE 2 BENT PLATES 3/8"x AS REQ'D. BY GEOMETRY (PROVIDE MIN. 3" WELD).
5. FOR ANGLES 33.7° TO 71.6° FROM PERPENDICULAR, PROVIDE 1 BENT PLATE 3/8"x AS REQ'D. BY GEOMETRY (PROVIDE MIN. 3" WELD).
6. LEG SHALL BE ADJUSTED WHERE REQUIRED BY GEOMETRY.

	ANGLES 0° TO 33.7°						ANGLES 33.7° TO 71.6°	
BEAM SIZE	ANGLE SIZE	L in.	n	g1	WELD A	BOLT DIAMETER	L in.	n
C8's, C10's, W8's & W10's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"	5 1/2	2
C12's & W12's	L4x3 1/2x5/16	5 1/2	2	5 1/2	3/16	3/4"	8 1/2	3
W14's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"	11 1/2	4
W16's	L4x3 1/2x5/16	8 1/2	3	5 1/2	3/16	3/4"	11 1/2	4
W18's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"	14 1/2	5
W21's	L4x3 1/2x5/16	11 1/2	4	5 1/2	3/16	3/4"	17 1/2	6
W24's	L4x3 1/2x5/16	14 1/2	5	5 1/2	3/16	3/4"		
W27's	L4x3 1/2x5/16	17 1/2	6	5 1/2	1/4	3/4"		
W30's	L4x3 1/2x3/8	20 1/2	7	5 1/2	1/4	3/4"		
W33's	L4x3 1/2x3/8	23 1/2	8	5 1/2	1/4	3/4"		
W36's	L4x3 1/2x3/8	26 1/2	9	5 1/2	1/4	3/4"		
W40's	L4x3 1/2x3/8	29 1/2	10	5 1/2	1/4	3/4"		

2 S004 ALTERNATE BEAM TO BEAM CONNECTION SCHEDULE AND DETAIL

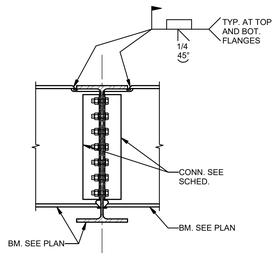


BEAM SIZE	PLATE SIZE	L in.	n	WELD (TYP.) EA. SIDE	BOLT DIAMETER
W8's	5/16"x 3 1/2"	6	2	1/4	3/4"
W10's	5/16"x 3 1/2"	6	2	1/4	3/4"
W12's	5/16"x 3 1/2"	9	3	1/4	3/4"
W14's	5/16"x 3 1/2"	9	3	1/4	3/4"
W16's	5/16"x 3 1/2"	12	4	1/4	3/4"
W18's	5/16"x 3 1/2"	12	4	1/4	3/4"
W21's	3/8"x 3 1/2"	15	5	5/16	3/4"
W24's	3/8"x 3 1/2"	15	5	5/16	3/4"
W27's	3/8"x 3 1/2"	18	6	5/16	3/4"

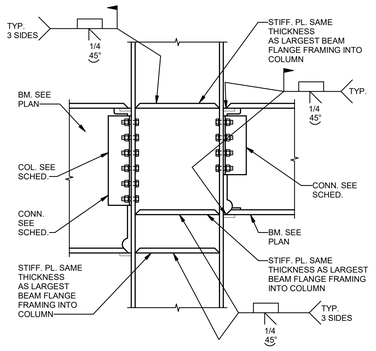


NOTE: UNLESS NOTED OTHERWISE:
1. PROVIDE LOCATION & MAGNITUDE OF ALL STAIR LOADS IMPOSED ON THE SUPPORTING STRUCTURE ON FIRST SHOP DRAWING SUBMITTAL.
2. HANGERS SHALL BE CONCENTRIC W/ BEAM ABOVE AT ALL EXTERIOR LOCATIONS.

3 S004 DETAIL- STAIR HANGER AND CONNECTION
NTS

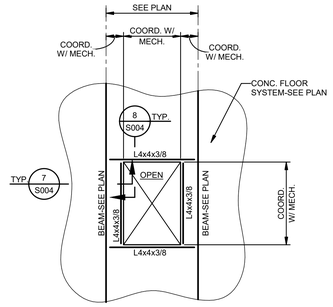


4 S004 DETAIL-TYPICAL MOMENT CONNECTION BEAM TO BEAM
NTS



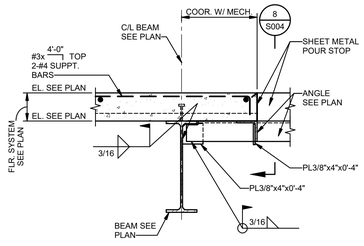
NOTE:
BM. FRAMING INTO COL. WEB NOT SHOWN

5 S004 DETAIL-TYPICAL MOMENT CONNECTION TO COLUMN FLANGE
NTS

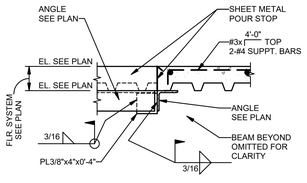


NOTES:
1. COORDINATE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL.
2. FRAME OPENINGS AT ROOF SIMILAR.
3. ANY OPENINGS WHICH CANNOT BE FRAMED AS SHOWN SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR REVIEW.

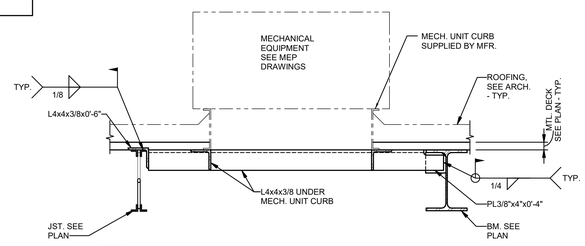
6 S004 PLAN DETAIL-TYP. SLAB OPENING
NTS



7 S004 SECTION
NTS



8 S004 SECTION
NTS



NOTES:
1. DETAIL APPLIES TO ALL MECHANICAL EQUIPMENT INCLUDING FANS, ROOF HATCHES, ROOF DRAINS, ETC.
2. NOT ALL MECHANICAL EQUIPMENT LOCATIONS & WEIGHTS KNOWN OR SHOWN ON STRUCTURAL DRAWINGS. WHERE NOT INDICATED ON PLANS OTHERWISE, CONTRACTOR TO FOLLOW RECOMMENDATIONS SHOWN IN DETAIL FOR SUPPORT OF SAID EQUIPMENT.
3. PROVIDE WIDE FLANGE BEAM, W/ SECTION MODULOUS AND MOMENT OF INERTIA NECESSARY TO SATISFY THE DESIGN.

9 S004 DETAIL- TYP. ROOF MOUNTED MECHANICAL EQUIPMENT SUPPORT
NTS

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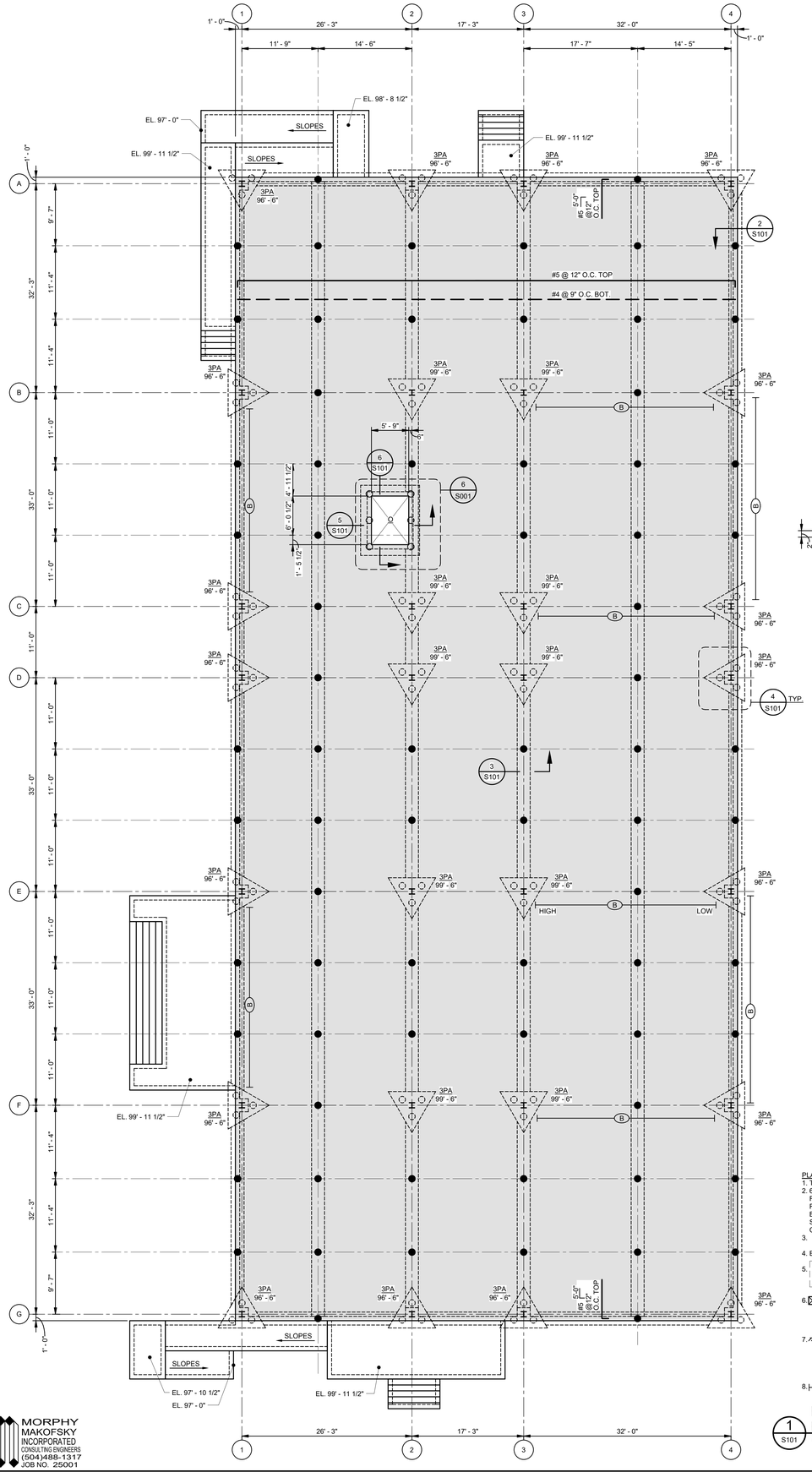
REVISIONS

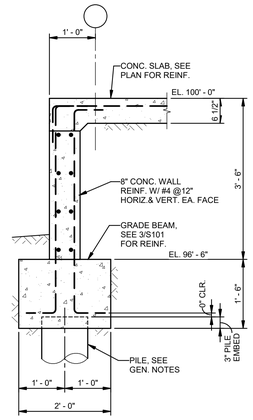
NOT FOR CONSTRUCTION

WDG Project No: 24002

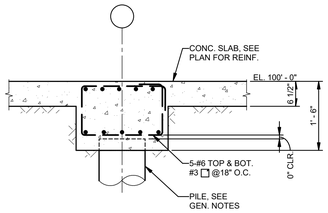
SHEET NAME
TYPICAL DETAILS

SHEET NO.
S004

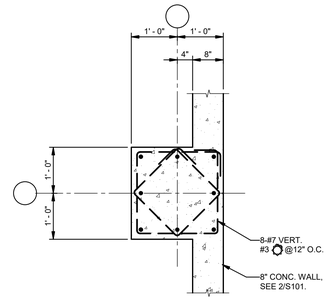




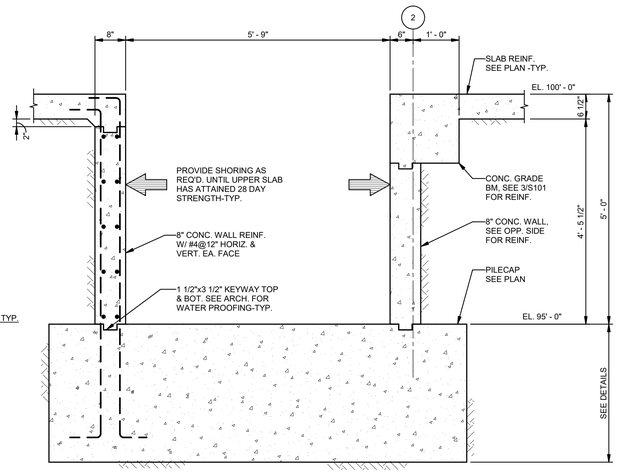
2 S101 SECTION
3/4" = 1'-0"



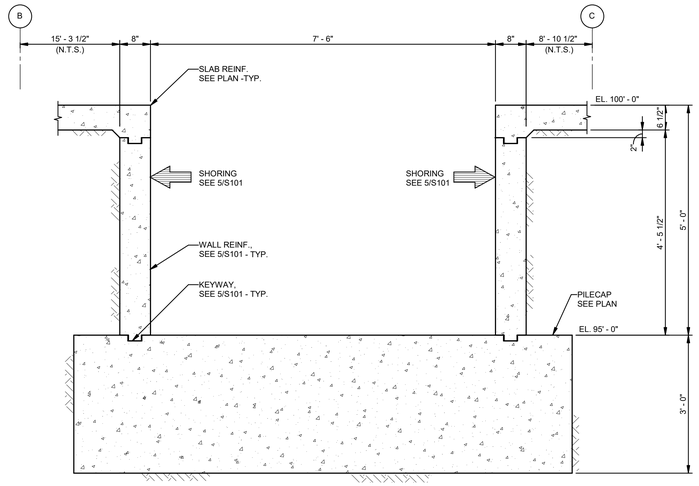
3 S101 SECTION
3/4" = 1'-0"



4 S101 PLAN DETAIL - TYPICAL CONCRETE PEDESTAL
3/4" = 1'-0"



5 S101 SECTION
3/4" = 1'-0"



6 S101 SECTION
3/4" = 1'-0"

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 100'-0". SEE CIVIL FOR ACTUAL DATUM.
2. 6 1/2" CONCRETE SLAB THROUGHOUT. SEE PLAN FOR MAIN REINFORCING. PROVIDE #3 @ 9" O.C. TEMPERATURE REINFORCING ON TOP OF AND PERPENDICULAR TO MAIN BOTTOM REINFORCING. REFER TO SECTIONS, DETAILS, SCHEDULES, ETC. FOR ADDITIONAL REINFORCING NOT CALLED OUT ON PLAN.
3. ● - INDICATES SINGLE PILE, SEE GENERAL NOTES. SEE SECTIONS AND DETAILS FOR CUT-OFF ELEVATIONS.
4. EP-1 - INDICATES LOCATION OF EXPLORATORY PILE NO. 1.
5. - INDICATES 4 PILE CAP VARIES SEE PLAN. SEE DETAILS FOR SIZE AND REINFORCING. 4PA 96'-6"
6. ⊠ ⊗ - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL. ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB. DO NOT CORE-DRILL OR SAW-CUT PENETRATIONS AFTER THE FLOOR IS CAST.
7. - INDICATES AREA TO BE DEPRESSED. COORDINATE EXTENTS AND DEPTH OF ALL DEPRESSIONS WITH ARCHITECT AS WELL AS WITH MANUFACTURER'S REQUIREMENTS FOR PRODUCTS TO BE INSTALLED WITHIN THOSE DEPRESSIONS BEFORE FORMING FOR THE CONCRETE POUR BEGINS.
8. B - INDICATES LATERAL BRACING. SEE ELEVATIONS.

1 S101 FOUNDATION & FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

N

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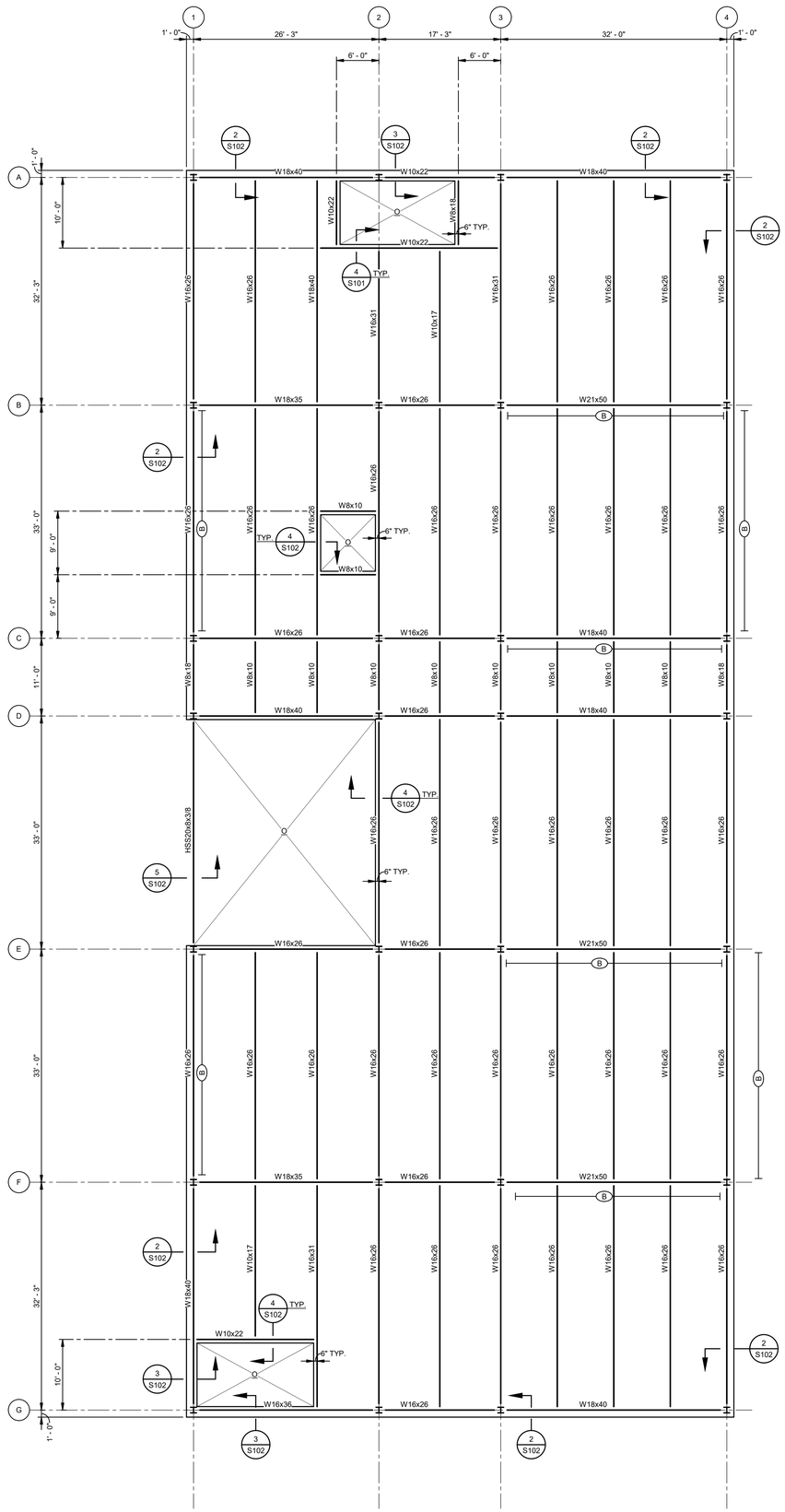
REVISIONS

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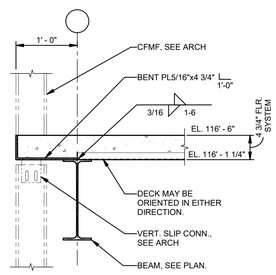
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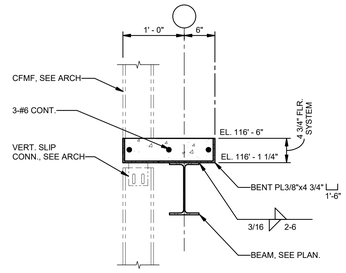
SHEET NAME
FIRST FLOOR & FOUNDATION FRAMING PLAN

SHEET NO. S101



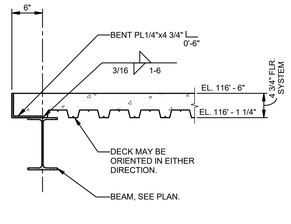
2 S102 SECTION
1" = 1'-0"



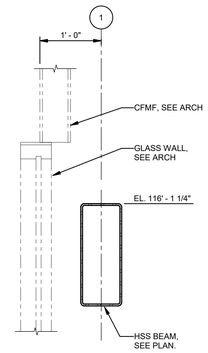


NOTE: UNLESS NOTED OTHERWISE:
1. EXTEND REINFORCING 3'-0" PAST OPENING, & PROVIDE CORNER BARS AT ALL CORNERS.

3 S102 SECTION
1" = 1'-0"



4 S102 SECTION
1" = 1'-0"



5 S102 SECTION
1" = 1'-0"

PLAN NOTES: UNLESS NOTED OTHERWISE:
1. TOP OF SLAB EL. 116'-6", TOP OF STEEL EL. 116'-1 1/4".
2. FLOOR SYSTEM TO CONSIST OF L.W. CONCRETE ON 1.5VL18 COMPOSITE METAL DECKING. TOTAL FLOOR THICKNESS 4 3/4" ON 1 1/2" METAL DECK. REINFORCE SLAB WITH 1 LAYER 6x6-W2.1xW2.1 W.W.F. LOCATED 1" BELOW TOP OF SLAB.
3. W16x26(36) - INDICATES W16x26 WITH (36)-3/4"ø x3 1/2" H.C.A. EQUALLY SPACED ALONG CENTER OF BEAM (FIELD INSTALLED).
4. - INDICATES MOMENT CONNECTION. SEE TYPICAL DETAILS.
5. - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL, ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB. DO NOT CORE-DRILL OR SAW-CUT. PENETRATIONS AFTER THE FLOOR IS CAST.
6. - INDICATES LATERAL BRACING. SEE ELEVATIONS.

1 S102 SECOND FLOOR FRAMING PLAN
1/8" = 1'-0"

N

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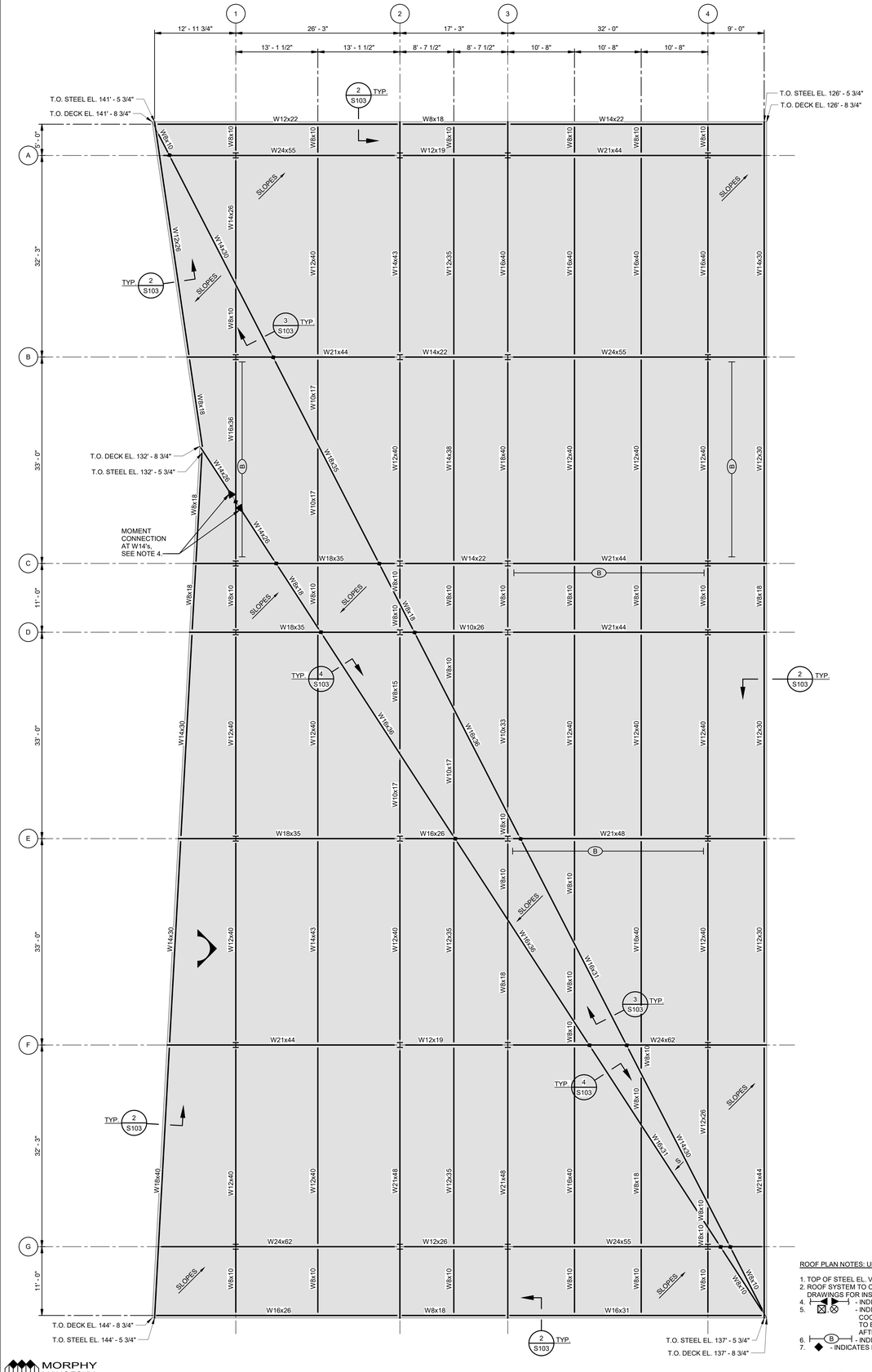
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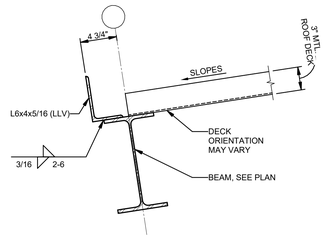
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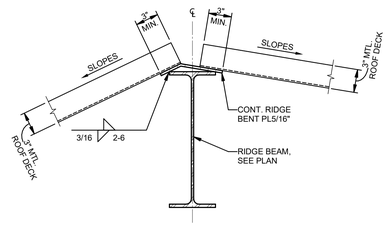
SHEET NAME
SECOND FRAMING PLAN

SHEET NO. S102

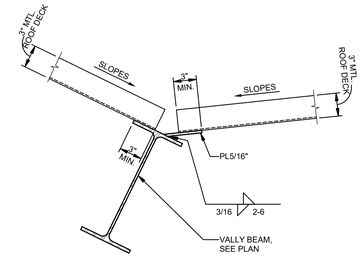




2 S103 ROOF DETAIL - PERIMETER BEAM
1 1/2" = 1'-0"



3 S103 ROOF DETAIL - RIDGE BEAM
1 1/2" = 1'-0"



4 S103 ROOF DETAIL - VALLY BEAM
1 1/2" = 1'-0"

ROOF PLAN NOTES: UNLESS NOTED OTHERWISE:

1. TOP OF STEEL EL. VARIES, SEE PLAN.
2. ROOF SYSTEM TO CONSIST OF 3N18 METAL ROOF DECKING. SEE ARCHITECTURAL DRAWINGS FOR INSULATION AND ROOFING ON TOP OF DECKING.
4. ⊢◀▶⊣ 1 - INDICATES MOMENT CONNECTION. SEE TYPICAL DETAILS.
5. ⊠ ⊗ - INDICATES FLOOR PENETRATIONS FOR HVAC, PLUMBING, ELECTRICAL. ETC. COORDINATE LOCATIONS WITH RESPECTIVE CONSULTANT. PENETRATIONS TO BE CAST WITH SLAB. DO NOT CORE-DRILL OR SAW-CUT. PENETRATIONS AFTER THE FLOOR IS CAST.
6. ⊢(B)⊣ - INDICATES LATERAL BRACING. SEE ELEVATIONS.
7. ◆ - INDICATES FULL PEN MITER JOINT. WEB & BOTH FLANGES.

1 S103 ROOF FRAMING PLAN
1/8" = 1'-0"

N

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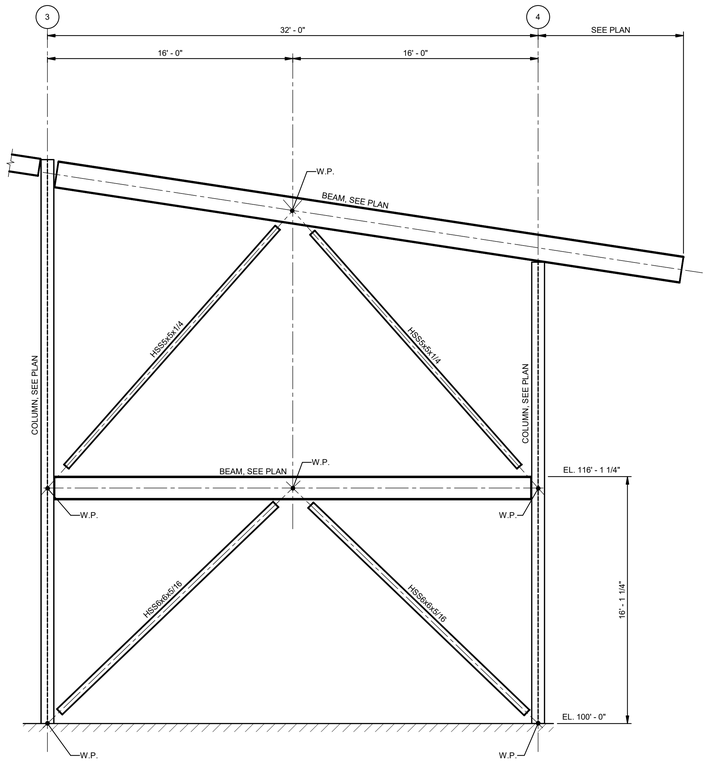
REVISIONS

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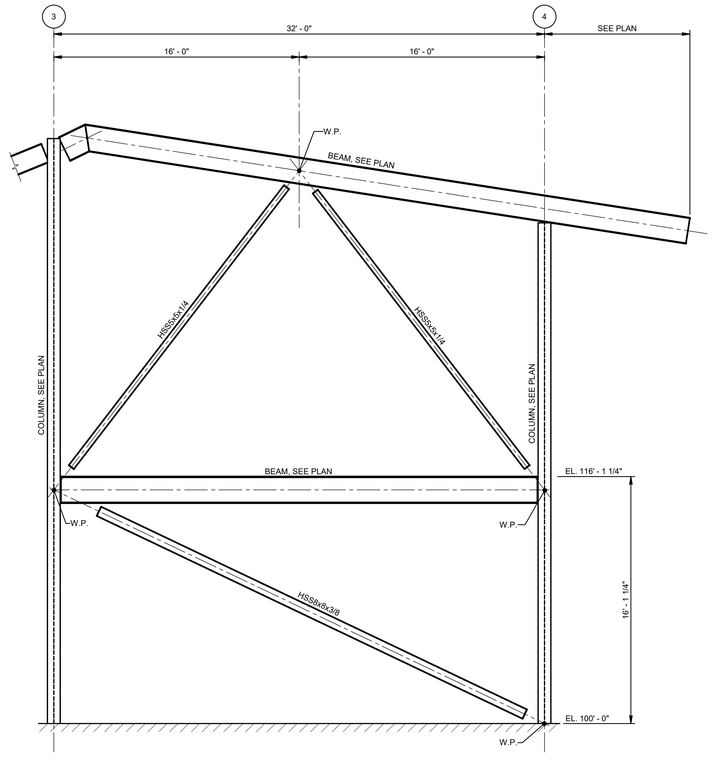
WDG Project No: 24002

SHEET NAME
ROOF FRAMING PLAN

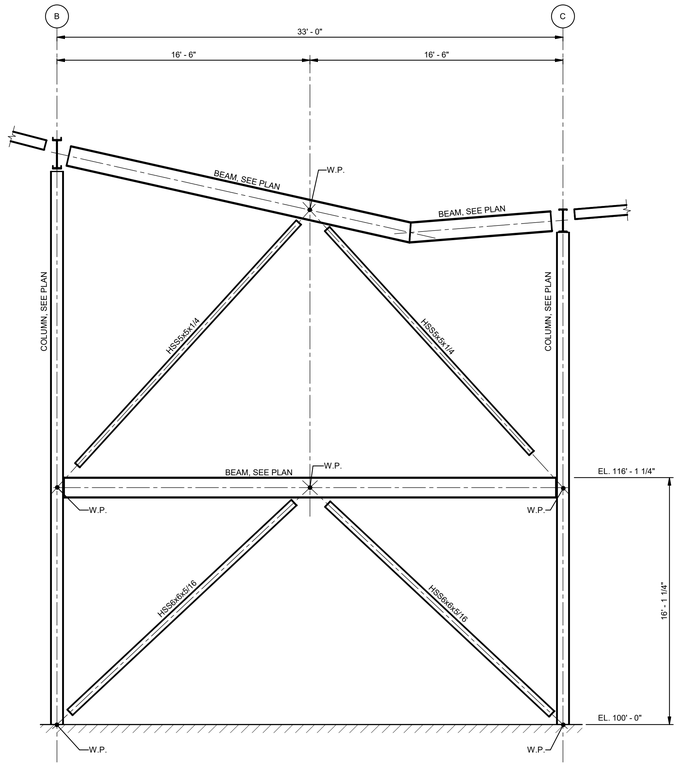
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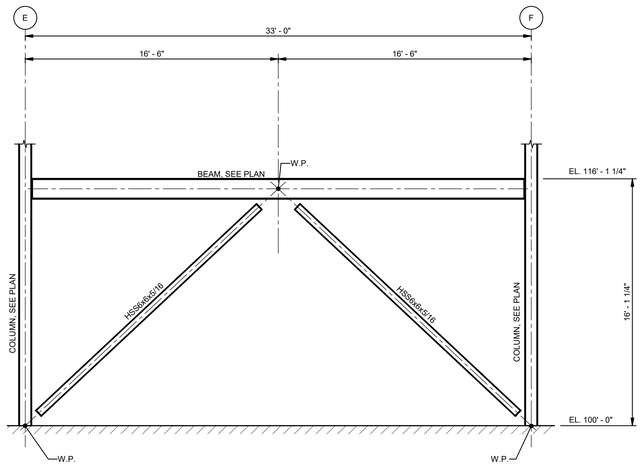
1 S401 ELEVATION - BRACING AT COLUMN LINE C
1/4" = 1'-0"



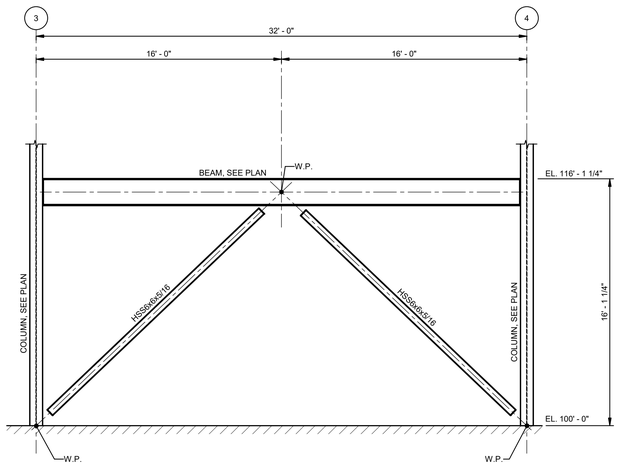
2 S401 ELEVATION - BRACING AT COLUMN LINE E
1/4" = 1'-0"



3 S401 ELEVATION - BRACING AT COLUMN LINES 1 & 4
1/4" = 1'-0"



4 S401 ELEVATION - BRACING AT COLUMN LINES 1 & 4
1/4" = 1'-0"



5 S401 ELEVATION - BRACING AT COLUMN LINES B & F
1/4" = 1'-0"

MORPHY MAKOFSKY INCORPORATED
CONSULTING ENGINEERS
(504)488-1317
JOB NO. 25001

09-02-25
PRELIMINARY PROGRESS SET
NOT FOR CONSTRUCTION

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM EXPLORATION MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
SCHEMATIC DESIGN

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

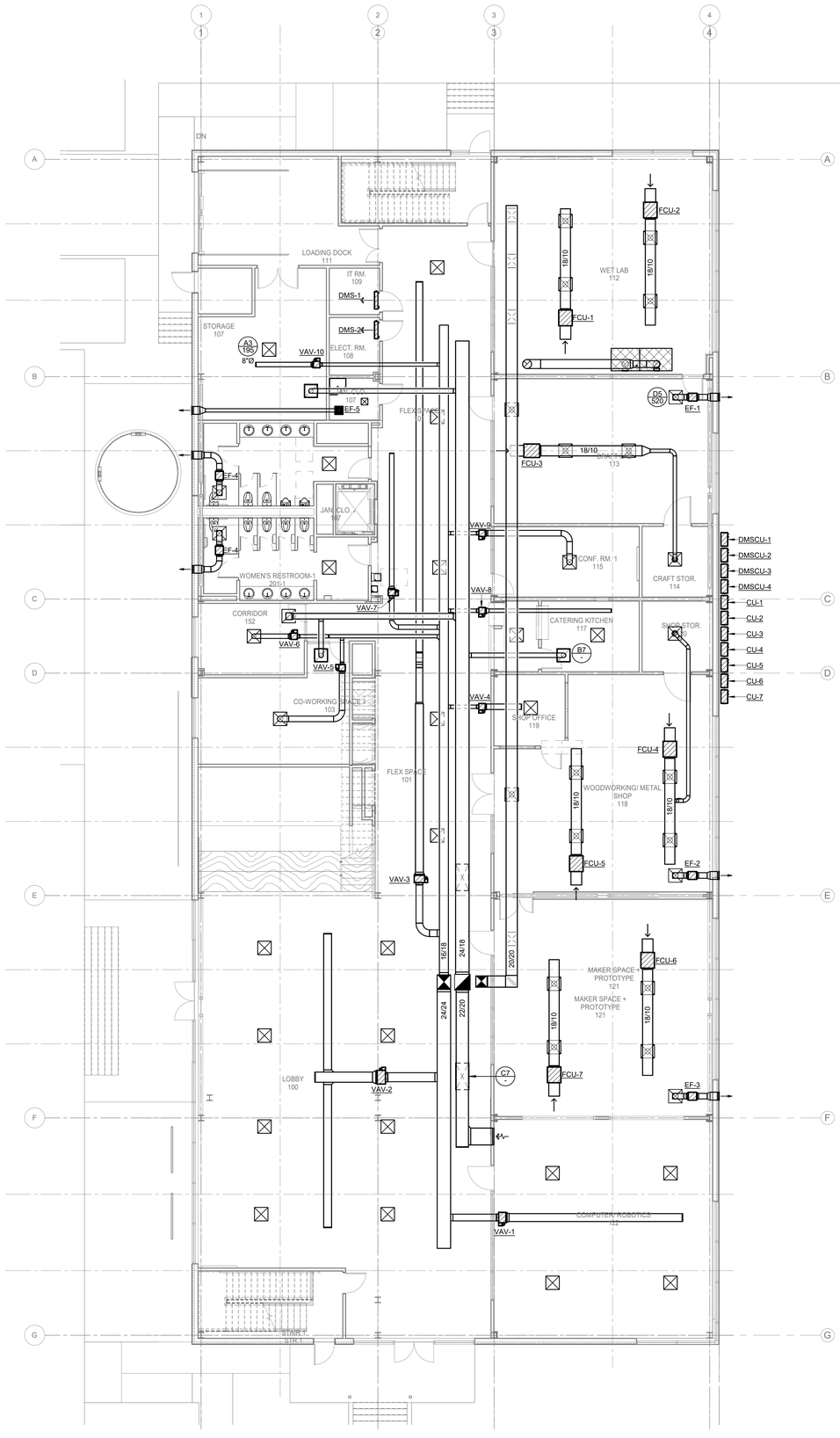
REVISIONS

NOT FOR CONSTRUCTION

WDG Project No: 24002

SHEET NAME
FRAMING ELEVATIONS

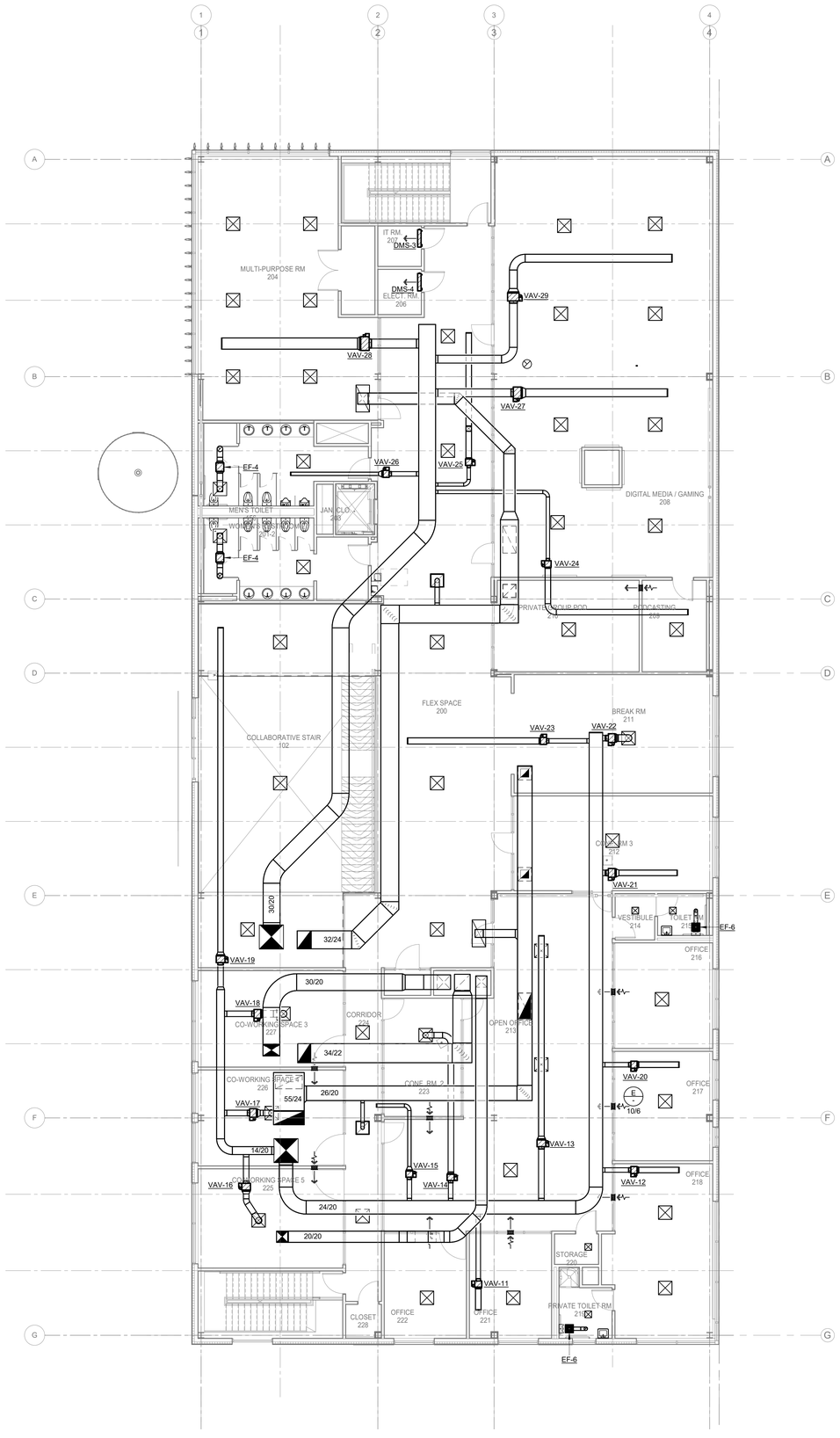
SHEET NO. S401



N

1 FIRST FLOOR MECHANICAL PLAN

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



N

2 SECOND FLOOR MECHANICAL PLAN

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

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

DRAWING ISSUE	
DATE	**ISSUED FOR**
9/2/2025	50% DD

REVISIONS			

NOT FOR CONSTRUCTION

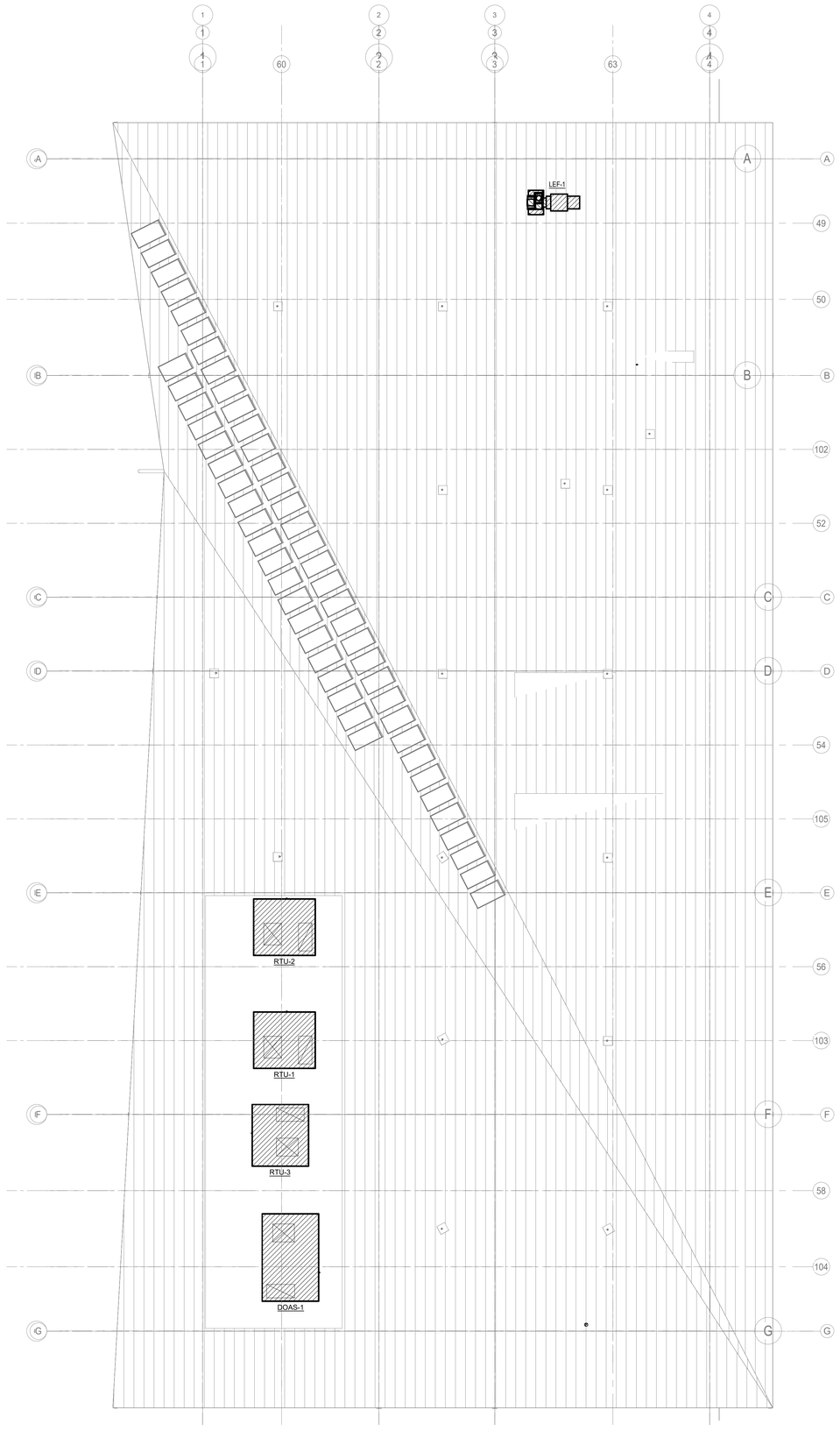
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Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
MECHANICAL FLOOR PLANS

SHEET NO.
M201



N

1 **MECHANICAL ROOF PLAN**
Scale: 1/8" = 1'-0"

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

SPECIALIZED STEM NOLA
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127 STEM MULTI-PURPOSE BUILDING
DESIGN DEVELOPMENT

DRAWING ISSUE

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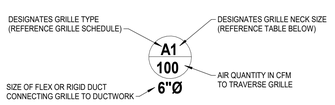
WDG Project No: 2024002

SHEET NAME
MECHANICAL ROOF PLAN

SHEET NO.
M211

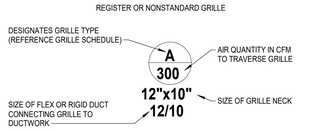
GRILLE SIZING SCHEDULE

STANDARD GRILLE



ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN.

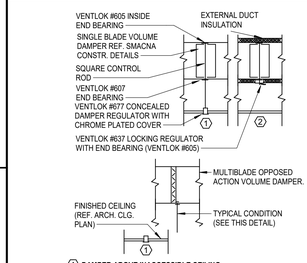
REGISTER OR NONSTANDARD GRILLE



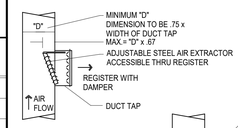
ALL GRILLES SHOWN SHALL BE FOUR-WAY THROW UNLESS OTHERWISE SHOWN. ALL REGISTERS SHALL HAVE A 45° HORIZONTAL DEFLECTION UNLESS OTHERWISE SHOWN.

GRILLE SIZE DESIGNATION	GRILLE NECK SIZE	GRILLE SIZE DESIGNATION	GRILLE NECK SIZE
1	6" x 6"	7	15" x 15"
2	8" x 8"	8	16" x 16"
3	9" x 9"	9	18" x 18"
4	10" x 10"	10	20" x 20"
5	12" x 12"	11	22" x 22"
6	14" x 14"	12	24" x 24"

DUCTWORK CONSTRUCTION DETAILS

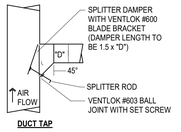


1. DAMPER ABOVE INACCESSIBLE CEILING
2. DAMPER ABOVE LIFT-OUT CEILING

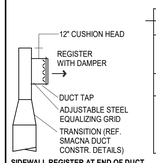


NOTES:
1. MAX. WIDTH OF DUCT TAP SHALL BE 48". PROVIDE BOTTOM BRACKET FOR SUPPORT WHERE EXTRACTOR EXCEEDS 16".
2. MAX. HEIGHT OF DUCT TAP SHALL BE 12" (MIN.= 4")

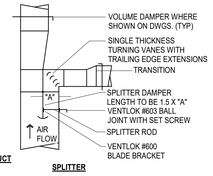
EXTRACTOR SIDEWALL REGISTER



DUCT TAP



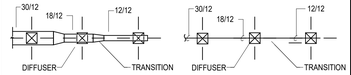
SIDEWALL REGISTER AT END OF DUCT



SPLITTER

DUCTWORK SYMBOLS LEGEND

TRANSITIONS



MAIN BRANCH TAKE-OFFS



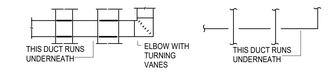
RISERS



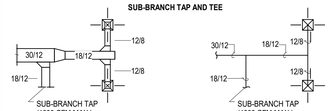
SIDEWALL REGISTERS



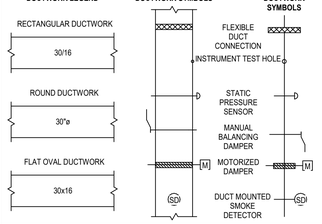
DUCT CROSSOVERS



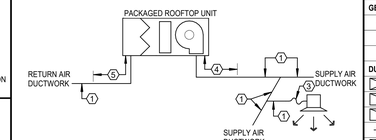
SUB-BRANCH TAP AND TEE



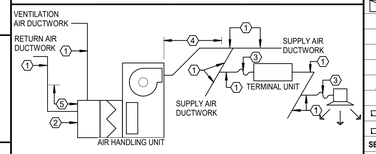
TWO LINE DUCTWORK LEGEND	TWO LINE DUCTWORK SYMBOLS	ONE LINE DUCTWORK SYMBOLS



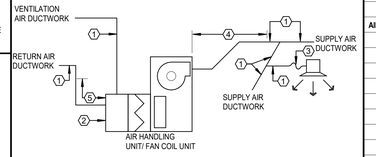
DUCT LINER AND INSULATION



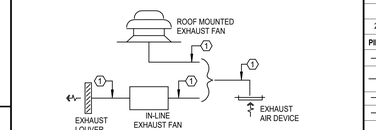
PACKAGED ROOFTOP UNIT



VARIABLE AIR VOLUME AIR HANDLING UNITS



AIR HANDLING UNITS AND FAN COIL UNITS



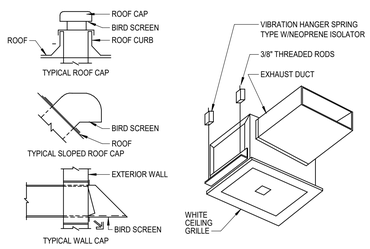
EXHAUST AIR SYSTEMS

KEYED NOTES:

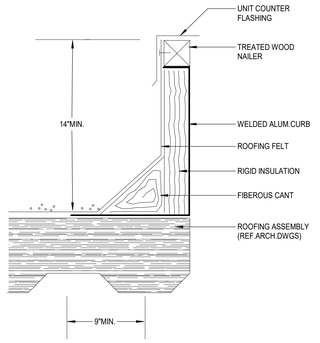
1. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
2. SHEETMETAL DUCTWORK RETURN AIR PLENUM WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
3. FLEXIBLE DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED.
4. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT DISCHARGE TO 10'-0" DOWNSTREAM.
5. SHEETMETAL DUCTWORK WITH EXTERNAL DUCTWORK INSULATION AS SPECIFIED AND 1" THICK 1-1/2 LB LINER AS SPECIFIED FROM AIR HANDLING UNIT INLET TO 10'-0" UPSTREAM.
6. EXHAUST DUCTWORK AS SPECIFIED WITH FIREBOARD INSULATION AS SPECIFIED.
7. SHEETMETAL DUCTWORK ONLY. NO INSULATION REQUIRED.

SYMBOL LEGEND

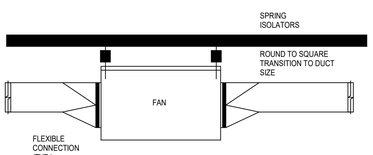
SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
(#)	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	FIRE DAMPER (VERTICAL)
	FIRE DAMPER (HORIZONTAL)
SD	SMOKE DAMPER (VERTICAL)
SD	SMOKE DAMPER (HORIZONTAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (VERTICAL)
FSD	COMBINATION FIRE & SMOKE DAMPER (HORIZONTAL)
	MANUAL BALANCING DAMPER (SEE DAMPER SCHEDULE)
M	MOTORIZED DAMPER (SEE DAMPER SCHEDULE)
SENSORS	
T	THERMOSTAT AND TEMPERATURE SENSOR
H	HUMIDISTAT
SD	SMOKE DETECTOR
HD	HEAT DETECTOR
AIR DEVICES	
	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	SUPPLY AIR GRILLE WITH THREE-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY THROW
	SUPPLY AIR GRILLE WITH TWO-WAY CORNER THROW
	SUPPLY AIR GRILLE WITH ONE-WAY THROW
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
D	CONDENSATE DRAIN LINE
RLR	REFRIGERANT LIQUID & GAS RECIRCULATION LINE (TOTAL OF TWO PIPES. ONLY ONE PIPE SHOWN FOR DRAWING CLARITY)
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	TEE DOWN
	TEE UP
	TOP BRANCH CONNECTION
	BOTTOM BRANCH CONNECTION
	FLANGE
	CAP
	CONTINUATION
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BBS	BELOW BOTTOM OF STRUCTURE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CA	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
FPM	FEET PER MINUTE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR



5 CABINET CEILING FAN
SCALE: NONE

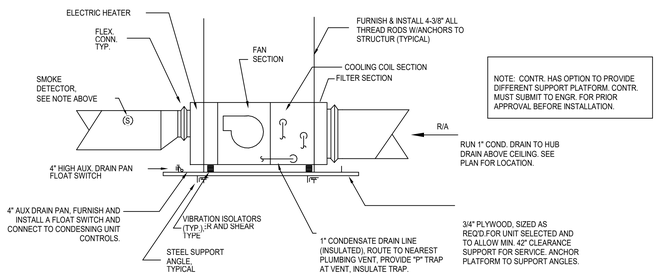


4 ROOF CURB
SCALE: NONE

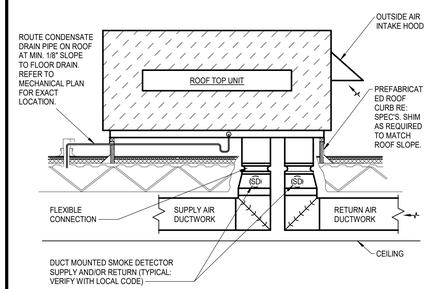


3 INLINE FAN DETAIL
SCALE: NONE

ALL AIR HANDLING UNITS PROVIDING OVER 2000 CFM AND LOCATED INSIDE ANY BUILDING WITHOUT A FIRE ALARM SYSTEM SHALL HAVE INDIVIDUAL AUDIO AND VISUAL ALARMS PLACED ON NEAREST WALL TO THE UNITS. COORDINATE WITH ARCHITECT.



2 AIR HANDLING UNIT SECTION
SCALE: NONE



1 ROOFTOP UNIT ELEVATION
SCALE: NONE

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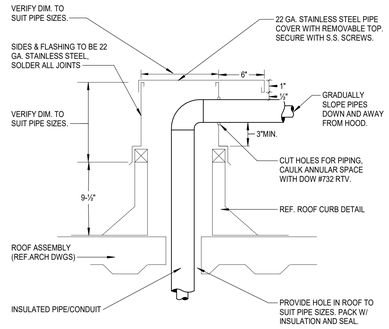
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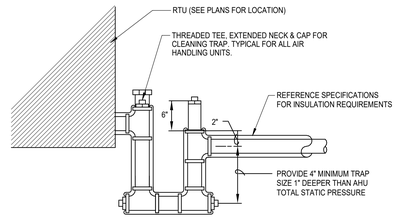
WDG Project No: 2024002

SHEET NAME
MECHANICAL DETAILS

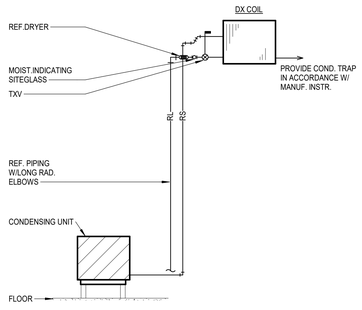
SHEET NO.
M301



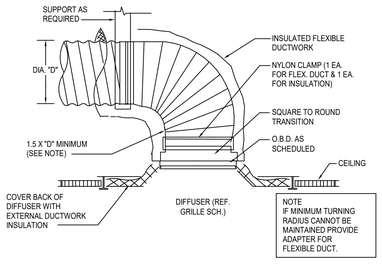
12 **INSULATED PIPE THRU ROOF**
SCALE: NONE



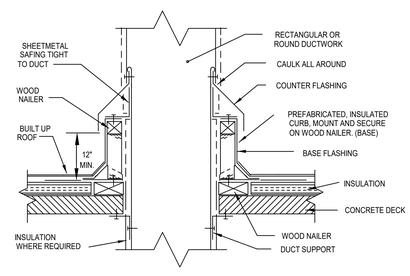
11 **CONDENSATE DRAIN PIPING AT RTU**
SCALE: NONE



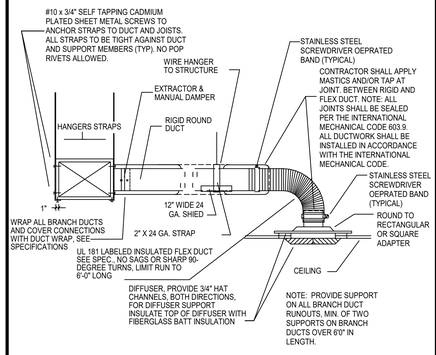
10 **REFRIGERANT PIPING DIAGRAM**
SCALE: NONE



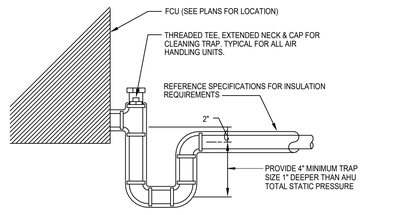
9 **FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER**
SCALE: NONE



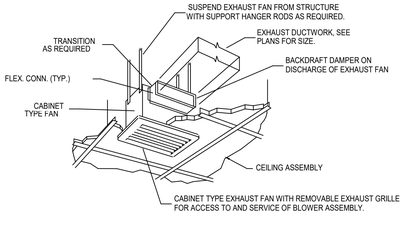
8 **DUCT PENETRATION THRU ROOF**
SCALE: NONE



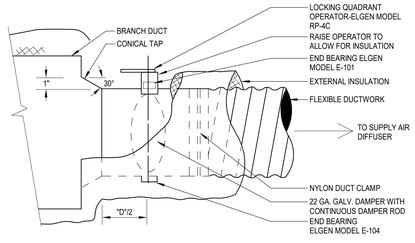
7 **DIFFUSER CONNECTION**
SCALE: NONE



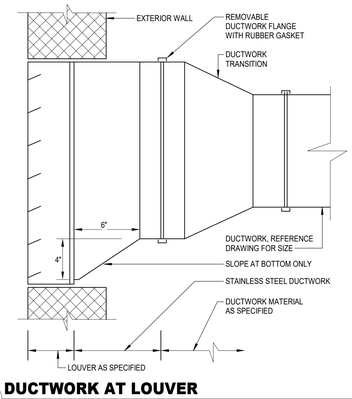
6 **CONDENSATE DRAIN PIPING AT FCU**
SCALE: NONE



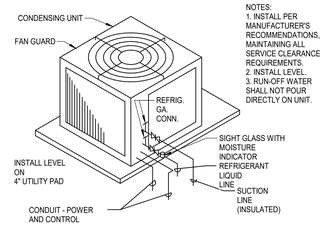
5 **CEILING MOUNTED EXHAUST FAN**
SCALE: NONE



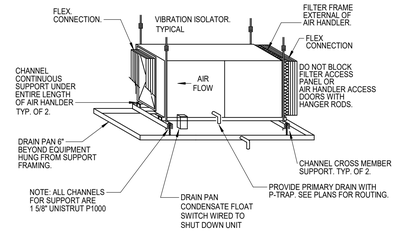
4 **FLEXIBLE DUCT TAP - CONICAL**
SCALE: NONE



3 **DUCTWORK AT LOUVER**
SCALE: NONE



2 **CONDENSING UNIT ON UTILITY PAD**
SCALE: NONE



1 **AIR HANDLING UNIT HUNG FROM STRUCTURE**
SCALE: NONE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
9/2/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

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Salas O'Brien
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Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
MECHANICAL DETAILS

SHEET NO.
M302

VARIABLE VOLUME TERMINAL BOX (ELECTRIC HEAT)

MARK	MAXIMUM CFM	MINIMUM CFM	INLET	KW	V	P	F	REMARKS
VAV-1	1,090	1,020	12	11.3	208	1	60	1
VAV-2	1,900	1,355	14	15.0	208	1	60	1
VAV-3	1,070	415	12	4.6	208	1	60	1
VAV-4	150	30	4	0.3	208	1	60	1
VAV-5	245	170	6	1.9	208	1	60	1
VAV-6	180	130	6	1.4	208	1	60	1
VAV-7	355	250	6	2.8	208	1	60	1
VAV-8	140	95	4	1.1	208	1	60	1
VAV-9	235	155	6	1.7	208	1	60	1
VAV-10	195	230	6	2.5	208	1	60	1
VAV-11	390	260	6	2.9	208	1	60	1
VAV-12	585	180	8	2.0	208	1	60	1
VAV-13	630	185	8	2.0	208	1	60	1
VAV-14	210	100	6	1.1	208	1	60	1
VAV-15	280	100	6	1.1	208	1	60	1
VAV-16	555	180	8	2.0	208	1	60	1
VAV-17	530	180	8	2.0	208	1	60	1
VAV-18	540	180	8	2.0	208	1	60	1
VAV-19	815	260	10	2.9	208	1	60	1
VAV-20	440	180	8	2.0	208	1	60	1
VAV-21	575	180	8	2.0	208	1	60	1
VAV-22	525	180	8	2.0	208	1	60	1
VAV-23	635	180	8	2.0	208	1	60	1
VAV-24	420	230	8	2.5	208	1	60	1
VAV-25	385	195	6	2.2	208	1	60	1
VAV-26	395	240	6	2.7	208	1	60	1
VAV-27	615	320	8	3.5	208	1	60	1
VAV-28	2,060	1,120	14	12.4	208	1	60	1
VAV-29	740	455	10	5.0	208	1	60	1

GENERAL NOTES:
1. MAXIMUM STATIC PRESSURE DROP OF AIR THROUGH THE TERMINAL BOX SHALL BE 0.2" W.G.
2. MAXIMUM VELOCITY THROUGH DUCT INLET SHALL BE 2,000 FPM.
3. SUSPEND UNIT WITH FOUR THREADED HANGER RODS ATTACHED TO TWO UNISTRUT RUNNERS SECURED TO STRUCTURE. REFER TO MANUFACTURER FOR MORE DETAILS.
4. UNITS TO BE MOUNTED BETWEEN BEAMS AND 18" MAXIMUM ABOVE CEILING. AVOID MOUNTING OVER LIGHTS WHEREVER POSSIBLE.

REMARKS:
1. PROVIDE UNIT WITH DDC VAV CONTROLLER.

GRILLE

MARK	SERVICE	TYPE	DAMPER	CONSTRUCTION MATERIAL	FINISH COLOR	MANUFACTURER	MODEL NUMBER	DESCRIPTION
A	SUPPLY AIR	DIFFUSER	-	STEEL	BY ARCH	TITUS	OMNI	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE.
B	RETURN AIR	DIFFUSER	-	STEEL	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X24".
C	RETURN AIR	DIFFUSER	-	STEEL	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 24"X48" FACE.
D	EXHAUST AIR	DIFFUSER	-	STEEL	BY ARCH	TITUS	PAR	SURFACE MOUNT CEILING FRAME STYLE WITH 18"X18" OR 12"X12" FACE. PERFERATED FACE.
E	TRANSFER	GRILLE	-	STEEL	BY ARCH	TITUS	350RL	DOUBLE DEFLECTION SIDEWALL GRILLE WITH HORIZONTAL FRONT BARS. SURFACE MOUNTED (1)

GENERAL NOTES:
1. DAMPERS NOTED AS U.L. SHALLBE A 'U.L.' CLASSIFIED CEILING RADIATION DAMPER WITH THERMAL BLANKET.
2. COORDINATE FINAL AIR DEVICE LOCATION AND FINISH COLOR WITH ARCHITECT.

DAMPER

MARK	ACTUATOR	DUTY	BLADE ACTION	MANUFACTURER	MODEL NUMBER	REMARKS
D-1	MANUAL BALANCING	UNDER 9" WIDE	N/A	N/A	N/A	SEE SMACNA CONSTRUCTION DETAILS REFERENCED "TYPICAL CONSTRUCTION DETAILS FOR LOW VELOCITY DUCTS."
D-2	MANUAL BALANCING	OVER 9" WIDE	OPPOSED	RUSKIN	MD-35	MANUAL DAMPER WITH STANDARD CONSTRUCTION FEATURES AND VENTLOCK #639 LOCKING REGULATOR.
D-3	MOTORIZED	OVER 9" WIDE	OPPOSED	RUSKIN	CD-60	LOW LEAKAGE DAMPER WITH BLADE SEALS

NOTES:
N/A - NOT APPLICABLE

DUCTLESS MINI-SPLIT - OUTDOOR UNIT

MARK	MIN. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER	CURRENT CHARAC.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
				V	PH	F		MANUFACTURER	MODEL	MCA	MOCP	
DMSCU-1	12,000	94	8.5 / 17	208	1	60	DMS-1	DAIKIN	RBK	7.5	15	1,2,3
DMSCU-2	12,000	94	8.5 / 17	208	1	60	DMS-2	DAIKIN	RBK	7.5	15	1,2,3
DMSCU-3	12,000	94	8.5 / 17	208	1	60	DMS-3	DAIKIN	RBK	7.5	15	1,2,3
DMSCU-4	12,000	94	8.5 / 17	208	1	60	DMS-4	DAIKIN	RBK	7.5	15	1,2,3

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT KIT.
2. PROVIDE WITH HAIL GUARD.
3. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.

DUCTLESS MINI-SPLIT - INDOOR UNIT

MARK	FAN						AIR TEMPERATURE (°F)		COOLING			REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	HORSE POWER	CURRENT CHARAC.			ENTERING DRY BULB	ENTERING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	
				V	P	F						
DMS-1	400	0	0.1	208	1	60	80.0	67.0	12,000	9,000	8.5 / 17	1,2,3,4,5,6
DMS-2	400	0	0.1	208	1	60	80.0	67.0	12,000	9,000	8.5 / 17	1,2,3,4,5,6
DMS-3	400	0	0.1	208	1	60	80.0	67.0	12,000	9,000	8.5 / 17	1,2,3,4,5,6
DMS-4	400	0	0.1	208	1	60	80.0	67.0	12,000	9,000	8.5 / 17	1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.
5. BASIS OF DESIGN: DAIKIN FTXB.
6. PROVIDE WITH CONDENSATE PUMP.

DX FAN/COIL UNIT

MARK	FAN						COOLING							HEATING			BASIS OF DESIGN				REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER	CURRENT CHAR		AIR TEMPERATURE (°F)				NOM. TOTAL CAPACITY (BTUH)	NOM. SENS. CAPACITY (BTUH)	MINIMUM EER/ SEER	NUMBER OF STAGES	ENTERING AIR TEMP.(°F)	KW	NUMBER OF STAGES	CURRENT CHAR			MANUFACTURER	MODEL	MCA	MOCP	
					V	P	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB							V	P	F					
FCU-1	1,000	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	30,000	22,500	-1	1	70	6	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-2	1,000	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	30,000	22,500	-1	1	70	6	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-3	1,200	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	36,000	27,000	-1	1	70	7	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-4	1,400	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	42,000	31,500	-1	1	70	8	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-5	1,400	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	42,000	31,500	-1	1	70	8	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-6	1,200	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	36,000	27,000	-1	1	70	7	1	208	3	60	-	-	9	20	1,2,3,4,5,6
FCU-7	1,200	0	0.25	0.5	208	3	60	75.0	62.5	55.0	54.5	36,000	27,000	-1	1	70	7	1	208	3	60	-	-	9	20	1,2,3,4,5,6

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. CONTROLLED BY PROGRAMMABLE WIRED THERMOSTAT.
3. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE HORIZONTAL UNIT.
5. PROVIDE WITH SINGLE POINT CONNECTION.
6. PROVIDE WITH INTEGRAL FILTER ACCESS PANEL.

ROOF MOUNTED DEDICATED OUTDOOR AIR UNIT

MARK	FAN				CURRENT			AIR TEMPERATURE (°F)							HEATING						REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	V	PH	F	ENTERING DRY BULB	ENTERING WET BULB	LEAVING DRY BULB	LEAVING WET BULB	MIN. TOTAL CAPACITY (BTUH)	MIN. SENS CAPACITY (BTUH)	MIN. EER	ENTERING AIR TEMPERATURE (°F)	KW	CURRENT			MANUFACTURER	MODEL	MCA	MOCP	
																	V	P	F					
DOAS-1	3,050	3,050	1.00	2.0	208	3	60	93.5	78.7	55.0	54.5	263,110	126,820	11.2	25.0	43	208	3	60	AAON	RNA	169	175	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT WITH LOW AMBIENT CONTROL. ELECTRICIAN TO WIRE TO SEPARATE CIRCUIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH HOT GAS RE-HEAT KIT DOWNSTREAM OF COOLING COIL.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH ECM TYPE MOTOR.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH HOT GAS REHEAT COIL WITH LEAVING AIR TEMP 75FDB, 62.5FWB.
12. PROVIDE ROOF MOUNTED BOTTOM SUPPLY UNIT.

PACKAGED ROOFTOP UNIT - (VARIABLE AIR VOLUME)

MARK	FAN				CURRENT CHARAC.			COOLING								BASIS OF DESIGN				REMARKS
	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT.STATIC PRESSURE (IN. W.C.)	HORSE POWER				AIR TEMPERATURE (°F)				NOM. TOTAL CAPACITY (BTU)	SENSIBLE CAPACITY (BTU)	MINIMUM EER/ SEER	NUMBER OF STAGES	MANUF.	MODEL NUMBER			
					V	P	F	ENTERING DRY BULB	ENTERING WET BULB	AMBIENT TEMP	LEAVING DRY BULB	LEAVING WET BULB							MCA	MOCP	
RTU-1	5,630	1,265	2.15	7.5	208	3	60	79.6	67.8	93.5	53.6	53.4	216,000	162,000	12.15/15.97	2	AAON	RNA	106	125	ALL
RTU-2	6,525	915	2.15	7.5	208	3	60	78.8	67.4	93.5	53.6	53.4	216,000	162,000	12.15/15.97	2	AAON	RNA	106	125	ALL
RTU-3	6,220	1,095	215.00	7.5	208	3	60	78.5	66.8	93.5	53.6	53.5	216,000	162,000	12.15/15.97	2	AAON	RNA	106	125	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE UNIT WITH DISCONNECT SWITCH & MOTORIZED OUTSIDE AIR DAMPER.
2. PROVIDE WITH VIBRATION ISLATION ROOF CURB.(REFER TO SPECS). CURB SHALL BE SUFFICIENT HEIGHT TO ENSURE OUTDOOR AIR INTAKE IS MINIMUM 36" ABOVE FINISHED ROOF LEVEL.
3. PROVIDE UNIT WITH FACTORY MOUNTED GFCI RECEPTACLE FOR UNIT WITH LOW AMBIENT CONTROL. ELECTRICIAN TO WIRE TO SEPARATE CIRCUIT.
4. PROVIDE A WATER LEVEL SENSING DEVICE IN THE PRIMARY DRAIN PAN. THIS DEVICE SHALL SHUT OFF THE APPLIANCE IN THE EVENT THE PRIMARY DRAIN LINE BECOMES RESTRICTED.
5. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL ELECTRICAL COSTS IF ALTERNATE UNIT IS PROVIDED WITH GREATER ELECTRICAL CHARACTERISTICS THAN SHOWN.
6. PROVIDE WITH HOT GAS RE-HEAT KIT DOWNSTREAM OF COOLING COIL.
7. MECHANICAL CONTRACTOR SHALL PROVIDE WITH SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCTWORK. COORDINATE WITH ELECTRICAL CONTRACTOR FOR INSTALLATION.
8. PROVIDE WITH BOTTOM DISCHARGE UNIT.
9. PROVIDE WITH ECM TYPE MOTOR.
10. PROVIDE WITH INVERTER COMPRESSOR ON LEAD CIRCUIT. UNIT SHALL BE ABLE TO PROVIDE SCHEDULED OUTSIDE AIR AT ALL TIME INCLUDING DURING PART LOADING.
11. PROVIDE WITH BIPOLAR IONIZATION KIT. BASIS OF DESIGN: GPS NBPI.
12. PROVIDE WITH BACNET CONTROLLER.
13. PROVIDE MERV 11 PRE-FILTER
14. PROVIDE WITH RETURN AIR FAN.

FAN SCHEDULE

TAG	LOCATION	CFM	EXT. STATIC PRESSURE (IN.W.C.)	MAX RPM	HORSE POWER	CURRENT CHAR			INTERLOCK WITH	FAN TYPE	DRIVE TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
						V	P	F						
EF-1	CRAFT LAB	520	0.25	1575	0.17	120	1	60	SWITCH	INLINE	DIRECT	GREENHECK	SQ	1
EF-2	WOODWORKING/ METAL SHOP	500	0.25	1575	0.17	120	1	60	SWITCH	INLINE	DIRECT	GREENHECK	SQ	1
EF-3	MAKER SPACE	580	0.25	1575	0.17	120	1	60	SWITCH	INLINE	DIRECT	GREENHECK	SQ	1
EF-4	RESTROOM	250	0.25	1315	0.17	120	1	60	LIGHTS	INLINE	DIRECT	GREENHECK	SQ	1
EF-5	JANITOR	50	0.25	1345	0.1	120	1	60	LIGHTS	CEILING	DIRECT	GREENHECK	GC	2
EF-6	TOILET	70	0.25	1410	0.1	120	1	60	LIGHTS	CEILING	DIRECT	GREENHECK	GC	2
LEF-1	ROOF	2100	2.00	1900	3	208	3	60	LAB HOOD CONTROLS	HIGH PLUME	DIRECT	GREENHECK	VK-CH	3

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MINIMUM RECOMMENDED CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH HANGING ISOLATION KIT, PRE-WIRED DISCONNECT MOTORIZED DAMPER, AND BACKDRAFT DAMPER.
2. PROVIDE WITH INTEGRAL BACKDRAFT DAMPER, VIBRATION ISOLATION, SPEED CONTROLLER, DECORATIVE GRILLE AND INTEGRAL DISCONNECT.
3. PROVIDE WITH MIXING BOX, AND VARIABLE FREQUENCY DRIVE FACTORY INSTALLED ON FAN PLENUM.

AIR COOLED CONDENSING UNIT

MARK	NOM. TOTAL CAPACITY (BTUH)	OUTDOOR AIR TEMP (°F)	MINIMUM EER/ SEER2	CURRENT CHAR.			RELATED UNIT MARK	BASIS OF DESIGN				REMARKS
				V	P	F		MANUFACTURER	MODEL	MCA	MOCP	
CU-1	30,000	94	-/-	120	1	60	FCU-1	-1	-1	12	20	1,2,3
CU-2	30,000	94	-/-	120	1	60	FCU-2	-1	-1	12	20	1,2,3
CU-3	36,000	94	-/-	120	1	60	FCU-3	-1	-1	12	20	1,2,3
CU-4	42,000	94	-/-	120	1	60	FCU-4	-1	-1	12	20	1,2,3
CU-5	42,000	94	-/-	120	1	60	FCU-5	-1	-1	12	20	1,2,3
CU-6	36,000	94	-/-	120	1	60	FCU-6	-1	-1	12	20	1,2,3
CU-7	36,000	94	-/-	120	1	60	FCU-7	-1	-1	12	20	1,2,3

GENERAL NOTES:
A. MINIMUM RECOMMENDEDLD CLEARANCE AROUND UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
2. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE WITH COIL GUARD.

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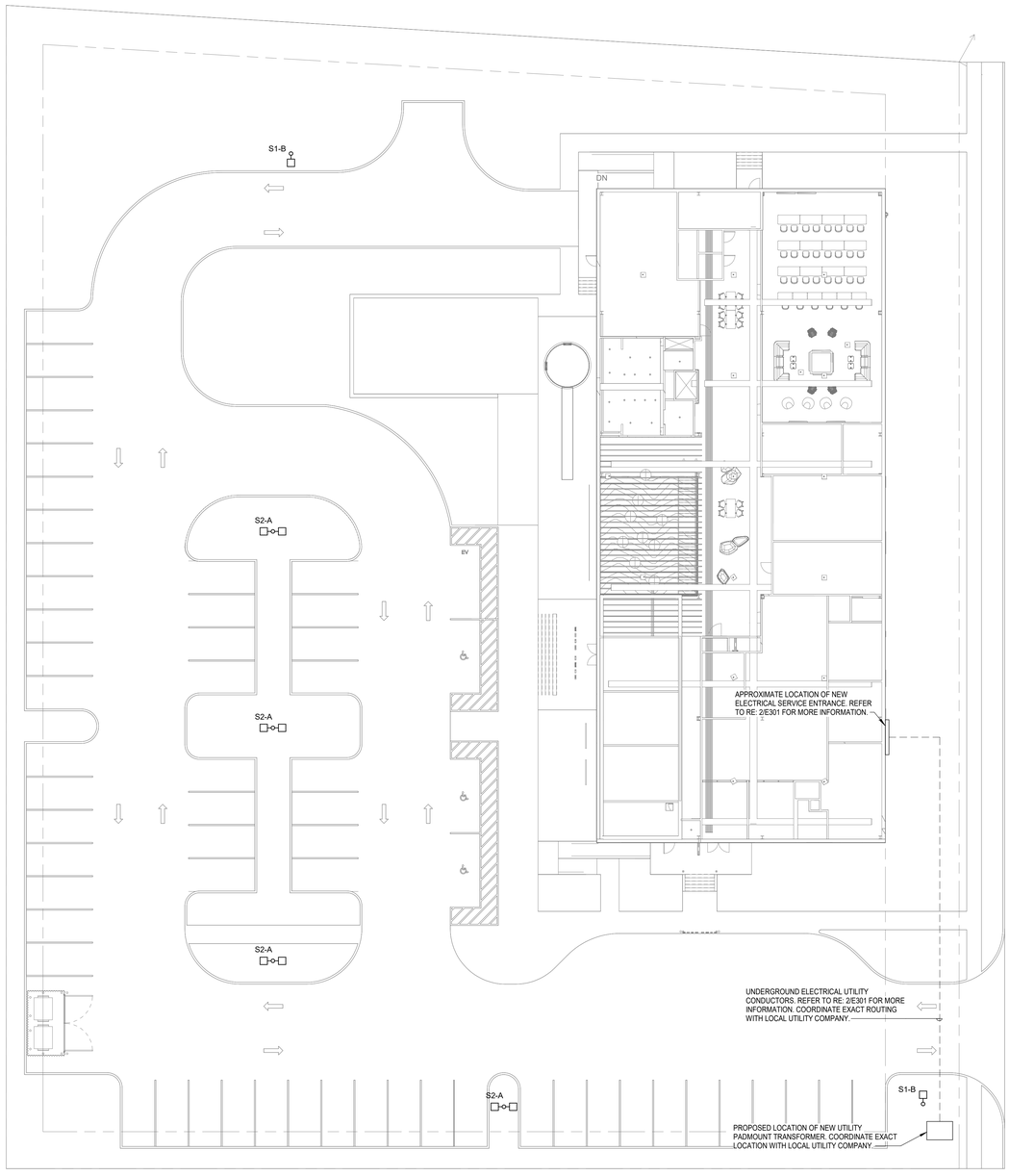
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Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809
Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

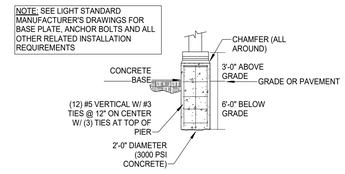
SHEET NAME
MECHANICAL SCHEDULES

SHEET NO. M401

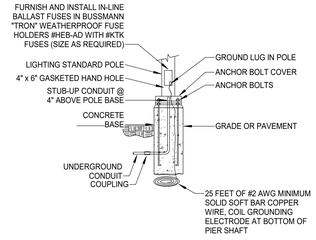


N

1 ELECTRICAL SITE PLAN
Scale: 1/16" = 1'-0"



3 METAL POLE W/ CONCRETE ANCHOR BASE STRUCTURAL REQS
Scale: NTS



2 METAL POLE W/ CONCRETE ANCHOR BASE ELEC REQS
Scale: NTS

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
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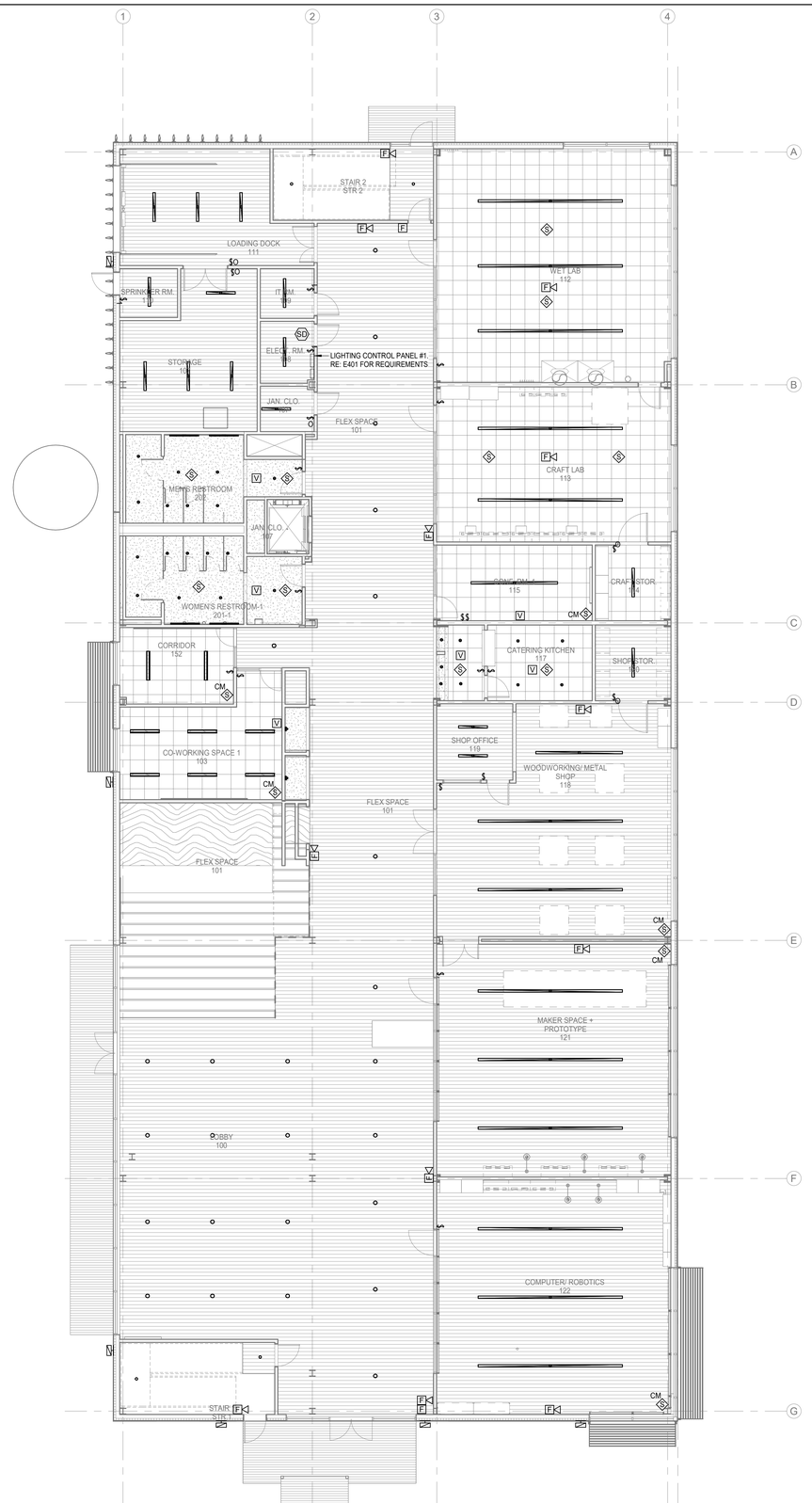
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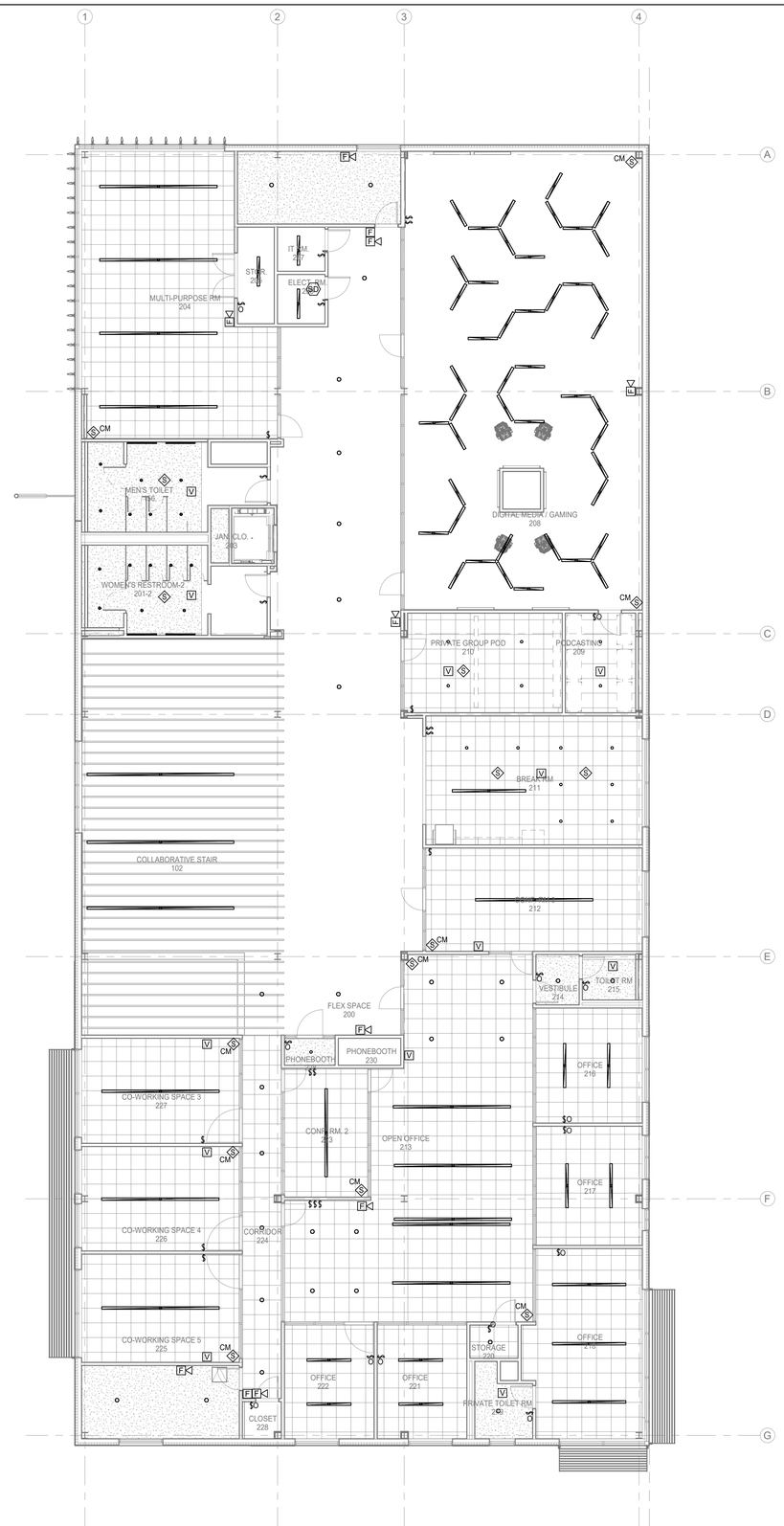
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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL SITE PLAN

SHEET NO.
E100





N

1 FIRST FLOOR LIGHTING PLAN

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

N

2 SECOND FLOOR LIGHTING PLAN

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

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA, 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

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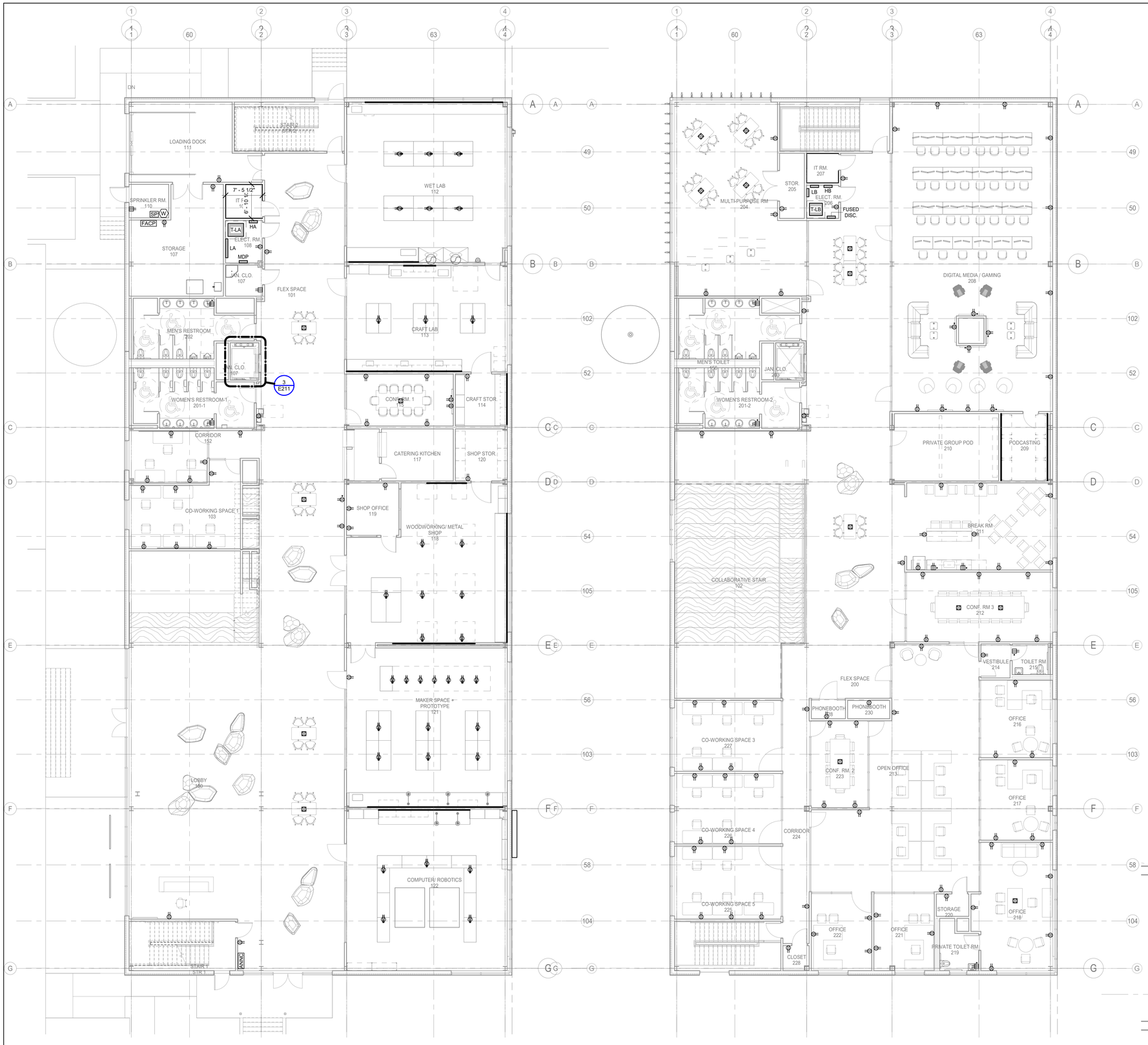
Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

LIGHTING PLAN

SHEET NO. E201



N

1 **FIRST FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

N

2 **SECOND FLOOR ELECTRICAL PLAN**
Scale: 1/8" = 1'-0"

N

3 **ENLARGED ELEVATOR PLAN**
Scale: 1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

SPECIALIZED STE

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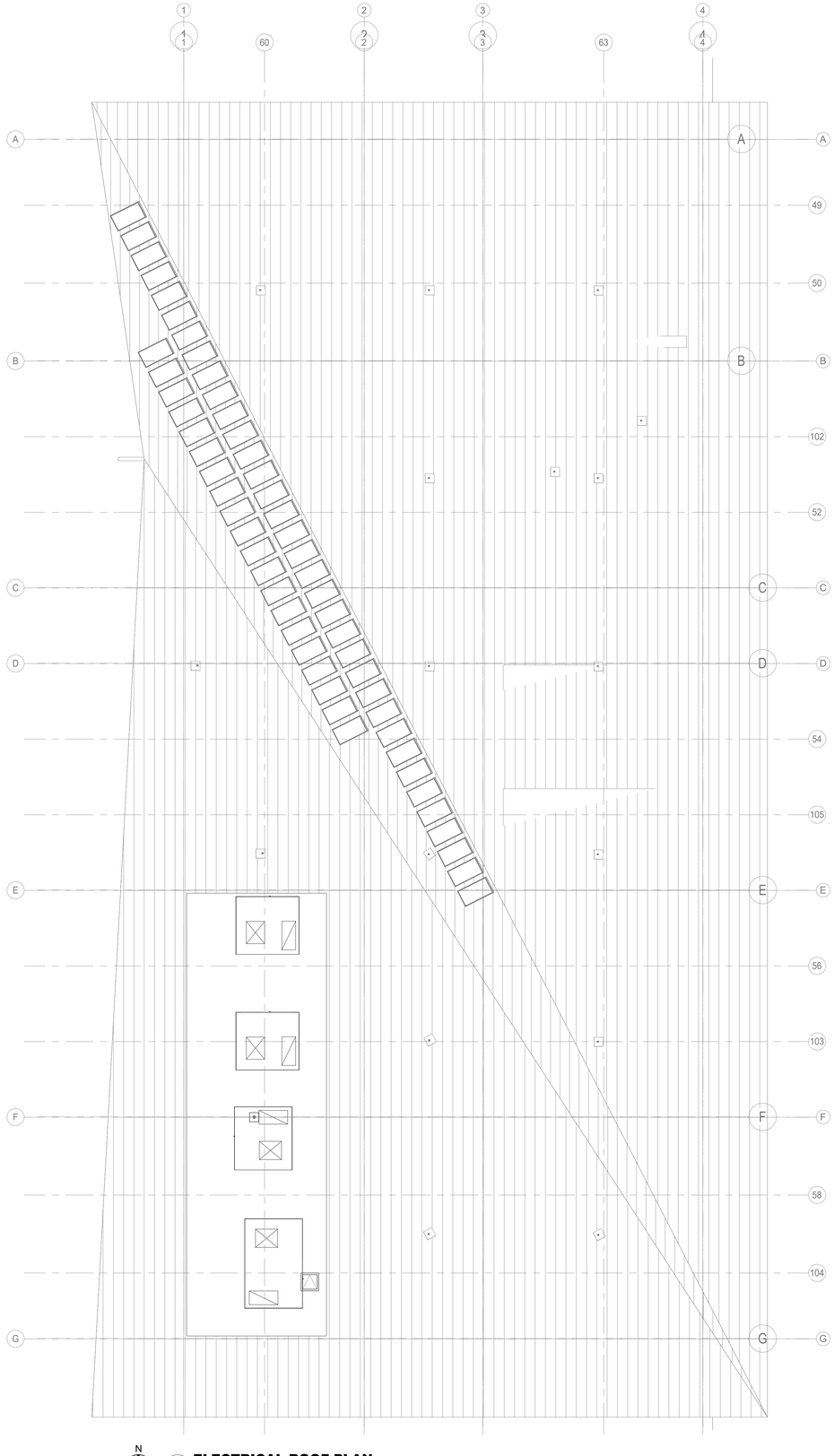
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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL FLOOR PLANS

SHEET NO.
E211



N

1 **ELECTRICAL ROOF PLAN**
Scale: 1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL ROOF PLAN

SHEET NO.
E221

Branch Panel: HA

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 150A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1										2	
	3										4	
	5										6	
	7										8	
	9										10	
	11										12	
	13										14	
	15										16	
	17										18	
	19										20	
	21										22	
	23										24	
	25										26	
	27										28	
	29										30	
	31										32	
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
		Total Load:			0.0 kVA	0.0 kVA	0.0 kVA					
		Total Amps:			0 A	0 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: HB

Location: ELECT. RM. 206 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: MDP | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 125A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1										2	
	3										4	
	5										6	
	7										8	
	9										10	
	11										12	
	13										14	
	15										16	
	17										18	
	19										20	
	21										22	
	23										24	
	25										26	
	27										28	
	29										30	
	31										32	
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
		Total Load:			0.0 kVA	0.0 kVA	0.0 kVA					
		Total Amps:			0 A	0 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
LF - PROVIDE PERMANENT LOCK-OFF DEVICE
LO - PROVIDE PERMANENT LOCK-ON DEVICE
M - PROVIDE METERING DEVICE

Branch Panel: MDP

Location: ELECT. RM. 108 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 800A MLO
Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1				0.0 / 0.0						2	
	3	T-LA	1-L	175	3	0.0 / 0.0		3	125	1-L FUSED DISC.	4	
	5						0.0 / 0.0				6	
	7				0.0 / 0.0						8	
	9	HA	1-L	150	3	0.0 / 0.0		3	125	1-L HB	10	
	11						0.0 / 0.0				12	
	13										14	
	15										16	
	17										18	
	19										20	
	21										22	
	23										24	
	25										26	
	27										28	
	29										30	
	31										32	
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
		Total Load:			0.0 kVA	0.0 kVA	0.0 kVA					
		Total Amps:			0 A	0 A	0 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Miscellaneous	0.0 kVA	0.00%	0.0 kVA		
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO RISER DIAGRAM FOR CONDUCTOR SIZE

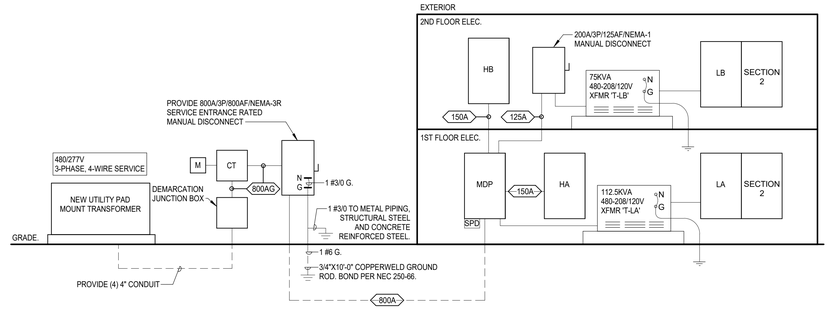
TRANSFORMER SCHEDULE

PRIMARY (480V 3PH 3W +GND)			SECONDARY (120/208V 3PH 4W +GND)		
KVA	WIRE & CONDUIT	CIRCUIT BREAKER	WIRE & CONDUIT	CIRCUIT BREAKER	GROUNDING ELECTRODE CONDUCTOR
75KVA	3#2, 1-1/4"C, 1#6G	3P-125A	4#250KCMIL, 3"C, 1#2G	3P-250A	#2
112.5KVA	3#2/0, 1-1/2"C, 1#6G	3P-175A	(2) SETS: 4#3/0, 2"C, 1#10G	3P-400A	#1/0

FEEDER SCHEDULE

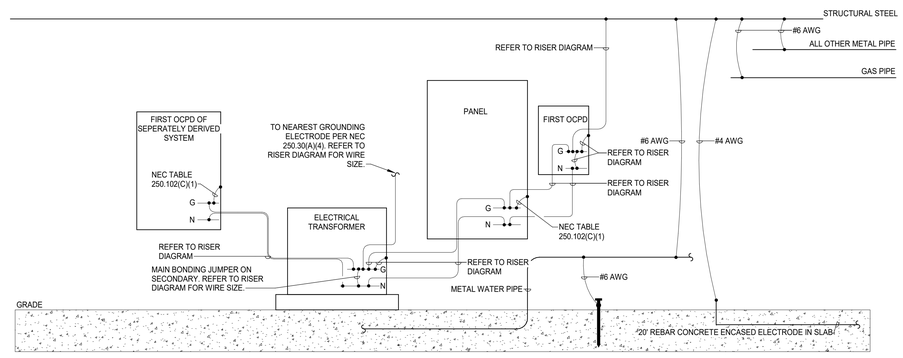
AMPERAGE	# SETS	CONDUCTOR (QTY.)/SIZE	GROUND (QTY.)/SIZE	CONDUIT
125A	1	(4) #1/0	#6	2"C
150A	1	(4) #1/0	#6	2"C
800A	3	(4) #300KCMIL	#1/0	3"C
800AG	3	(4) #300KCMIL	#3/0	3"C

1 CONDUIT SIZE AND QUANTITIES ARE BASED ON 3-PHASE 4-WIRE SYSTEMS. CONDUIT SIZE IS PERMITTED TO BE REDUCED BY THE CONTRACTOR AS PREMITTED BY THE NEC FOR THE REDUCED NUMBER OF CONDUCTORS THAT ARE TYPICAL FOR EQUIPMENT THAT IS SINGLE PHASE OR EQUIPMENT THAT DOES NOT REQUIRE A NEUTRAL CONDUCTOR.
2 CONDUCTOR SIZES BASED ON NEC TABLE 310.16 – COPPER 75°.
3 GROUND SIZES BASED ON NEC TABLE 250.122 – COPPER, UNLESS NOTED OTHERWISE. FEEDER TAGS WITH 'SE' REFERS TO SERVICE ENTRANCE CONDUCTORS AND GROUND SIZES BASED ON NEC TABLE 250.66 – COPPER
4 CONDUIT FILL BASED ON NEC ANNEX C.



2 ELECTRICAL RISER DIAGRAM

Scale: NTS



1 GROUNDING DETAIL

Scale: NTS

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

DRAWING ISSUE

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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
ELECTRICAL DETAILS

SHEET NO.
E301

Branch Panel: LA

Location: ELECT. RM. 108 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LA | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 400A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1										2	
	3										4	
	5										6	
	7										8	
	9										10	
	11										12	
	13										14	
	15										16	
	17										18	
	19										20	
	21										22	
	23										24	
	25										26	
	27										28	
	29										30	
	31										32	
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
	43										44	
	45										46	
	47										48	
	49										50	
	51										52	
	53										54	
	55										56	
	57										58	
	59										60	
	61										62	
	63										64	
	65										66	
	67										68	
	69										70	
	71										72	
	73										74	
	75										76	
	77										78	
	79										80	
	81										82	
	83										84	

Total Load:	0.0 kVA	0.0 kVA	0.0 kVA
Total Amps:	0 A	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

Branch Panel: LB

Location: ELECT. RM. 206 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: T-LB | **Phases:** 3 | **Enclosure:** NEMA-1
Mounting: SURFACE | **Wires:** 4 | **Mains:** 225A MCB

Phase in kVA

Note	CKT	Circuit Description	Wire	Breaker	A	B	C	Breaker	Wire	Circuit Description	CKT	Note
	1										2	
	3										4	
	5										6	
	7										8	
	9										10	
	11										12	
	13										14	
	15										16	
	17										18	
	19										20	
	21										22	
	23										24	
	25										26	
	27										28	
	29										30	
	31										32	
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
	43										44	
	45										46	
	47										48	
	49										50	
	51										52	
	53										54	
	55										56	
	57										58	
	59										60	
	61										62	
	63										64	
	65										66	
	67										68	
	69										70	
	71										72	
	73										74	
	75										76	
	77										78	
	79										80	
	81										82	
	83										84	

Total Load:	0.0 kVA	0.0 kVA	0.0 kVA
Total Amps:	0 A	0 A	0 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:

Abbrevations:
G - PROVIDE GFCI CIRCUIT BREAKER

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME

ELECTRICAL PANEL SCHEDULES

SHEET NO.

E302

LIGHTING FIXTURE SCHEDULE

Type Mark	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	LAMP TYPE	CCT	CRI	VOLTAGE	LOAD	REMARKS
B	LITECONTROL	4L-XX-D-4FTSOF-C1-40K-D030-D01-1C-UNV	RECESSED	1,200L LED	4000 K	80	277 V	29 W	1'X4' RECESSED LED WITH 0-10V DIMMING DRIVER WITH DRYWALL KIT.
S1-B	HUBBELL	CL1-60L-4K-2 WITH VALMONT POLE DS330-400W300-D1-FP-(FINISH)-FBC-AB	POLE MOUNT 1 @ 90	22,645L LED	4000 K	80	277 V	218 W	TYPE III AREA LUMINAIRE. 30' SQUARE STEEL POLE FACTORY CUT TO 27'-6".
S2-A	HUBBELL	CL1-60L-4K-2 WITH VALMONT POLE DS330-400W300-D1-FP-(FINISH)-FBC-AB	POLE MOUNT 1 @ 90	22,645L LED	4000 K	80	277 V	218 W	TYPE III AREA LUMINAIRE. 30' SQUARE STEEL POLE FACTORY CUT TO 27'-6".
WP	HUBBELL	TRP2-24L-30-4K7-3	WALL	3747L LED	4000 K	80	277 V	30 W	MOUNT FIXTURE AT +14'-0" AFF

1	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2	ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE.
3	REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4	UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
5	ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6	EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7	LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8	FOR PRIOR APPROVALS AND SUBMITTALS THAT DEVIATE FROM NOMINAL WATTAGE AND/OR DELIVERED LUMENS, IT SHALL BE UP THE ENGINEER'S SOLE DISCRETION TO APPROVE OR DECLINE THESE FIXTURES BASED ON ANY AND ALL FACTORS INCLUDING BUT NOT LIMITED TO INTENDED LIGHTING LEVELS FOR EACH SPACE AND IMPACT ON THE OVERALL ELECTRICAL POWER SYSTEM.
9	ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR UNLESS NOTED OTHERWISE.
10	THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
11	WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
12	FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.
13	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AX, C2X, FX") SHALL BE THE BASE FIXTURE TYPE CONNECTED TO EMERGENCY LIGHTING INVERTER SYSTEM. REFER TO DETAIL 3 SHEET 10.42 FOR ADDITIONAL INFORMATION.
14	FIXTURES SHOWN ON THE FLOORPLAN HAVING A DESIGNATION OF "X" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE T YPE "A1A, C2A, FA") SHALL BE THE BASE FIXTURE TYPE EXCEPT SUITABLE FOR GYPSUM CEILING INSTALLATION AND EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
15	ALL EXTERIOR LIGHT FIXTURES RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET LOCATION. WHERE SPECIFICALLY STATED IN THE LIGHTING FIXTURE SCHEDULE AS "DAMP LOCATION" FIXTURES AND PROTECTED BY THE BUILDING STRUCTURE FROM FALLING OR WIND DRIVEN RAIN OR SNOW, THEY MAY BE EITHER DAMP OR WET LOCATION LISTED.
16	ALL EXTERIOR LIGHT FIXTURES NOT RECESSED IN A CANOPY OR SURFACED MOUNTED DIRECTLY TO THE BOTTOM OF A CANOPY SHALL BE UL OR ETL LISTED AS WET FROM ABOVE LOCATION.

LIGHTING CONTROL SCHEDULE

SYMBOL	DESCRIPTION AND PROGRAMMING (DISREGARD ITEMS NOT SHOWN ON PLANS)
SWITCHES AND CONTROLS	
$	WALL SWITCH WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. INTERFACE WITH CEILING-MOUNTED OCCUPANCY OR VACANCY SENSORS WITHIN THE SAME ZONE OF CONTROL.
$ 1	WALL SWITCH FOR MANUAL ON/OFF CONTROL, NO DIMMING FUNCTIONALITY REQUIRED.
$ O	WALL-MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF OVERRIDE AND MANUAL UP/DOWN DIMMING CONTROL. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY.
(S)	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR AUTOMATIC ON TO 50% POWER UPON SPACE OCCUPANCY, AUTOMATIC OFF WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
(S) C	CEILING OR SURFACE MOUNTED OCCUPANCY SENSOR. PROGRAM FOR 100% POWER UPON SPACE OCCUPANCY, DIM TO 50% WITHIN 15 MINUTES OF SPACE VACANCY. INTERFACE WITH WALL-MOUNTED SWITCHES IN THE SPACE FOR MANUAL CONTROL.
(D)	CEILING OR SURFACE MOUNTED DAYLIGHT SENSOR. REFER TO LIGHTING PLANS FOR DAYLIGHT ZONES. THE DAYLIGHT SENSOR SHALL LIMIT THE POWER LEVELS OF LIGHT FIXTURES WITHIN THE ASSOCIATED PRIMARY OR SECONDARY DAYLIGHT ZONE BASED ON THE SENSOR CALIBRATION. LAYER WITH OTHER MANUAL AND AUTOMATIC LIGHTING CONTROLS SHOWN.
(P)	BUILDING-MOUNTED PHOTOCELL, INTERFACE WITH THE ASSOCIATED TIMECLOCK OR LIGHTING CONTROL PANEL FOR AUTOMATIC ON/OFF OF EXTERIOR LIGHT FIXTURES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
TC	TIMECLOCK FOR CONTROL OF ZONES AND CIRCUITS AS INDICATED ON LIGHTING PLANS AND PANEL SCHEDULES. THE TIMECLOCK SHALL BE CAPABLE OF BEING PROGRAMMED FOR SEVEN DAYS AND SEVEN DIFFERENT DAY TYPES PER WEEK, SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
$ T	WALL SWITCH FOR MANUAL ON/OFF OVERRIDE OF THE INDICATED TIMECLOCK ZONE
SUBSCRIPTS AND ABBREVIATIONS	
WP	THE INDICATED SWITCH SHALL BE WEATHERPROOF
CM	THE INDICATED SENSOR SHALL BE CORNER MOUNTED FACING OUTWARD TO SPACE.
HB	THE INDICATED SENSOR SHALL BE RATED FOR HIGH-BAY APPLICATIONS
NL	LIGHT FIXTURE SHALL BE DESIGNATED AS A NIGHT-LIGHT AND HARD-WIRED AHEAD OF ANY LIGHTING CONTROLS SHOWN IN THE SPACE

LIGHTING PLAN NOTES:

1. ALL LIGHTING CONTROL DEVICES AND PROGRAMMING SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
2. CIRCUIT LIGHT FIXTURES TO THE CIRCUIT SHOWN ADJACENT TO LIGHTING CONTROLS.
3. IT IS INTENDED THAT LIGHTING CONTROLS SHOWN IN EACH SPACE ARE TO CONTROL LIGHT FIXTURES WITHIN THAT SPACE. WHERE IT IS INTENDED THAT THERE ARE MULTIPLE CONTROL ZONES IN A SPACE, OR WHERE CONTROL ZONES MAY NOT BE AS OBVIOUS DUE TO THE SIZE OR SHAPE OF THE SPACE, REFER TO LOWERCASE CONTROL ZONE LETTERS SUCH AS 'a'. ARCS, OR VERBIAGE FOR FURTHER CLARIFICATION.
4. WHEN MULTIPLE OCCUPANCY OR VACANCY SENSORS ARE SHOWN IN A SINGLE SPACE OR CONTROL ZONE, IT IS INTENDED THAT THEY ARE INTERFACED TOGETHER SUCH THAT IF ANY INDIVIDUAL CONTROL DEVICE PROGRAMMING CONDITIONS ARE MET IT SHALL ACTIVATE OR DEACTIVATE THE ENTIRE CONTROL ZONE OR SPACE.
5. ALL LIGHTING CONTROLS WITH DIMMING FUNCTIONALITY FURNISHED SHALL BE COMPATIBLE WITH THE DIMMING TECHNOLOGY OF THE ASSOCIATED LIGHT FIXTURES. PROVIDE ADDITIONAL CABLING FOR 0-10V DIMMING LIGHT FIXTURES AS REQUIRED. IN THE EVENT THAT THERE ARE FIXTURES WITH DIFFERENT DIMMING TECHNOLOGIES ON THE SAME CONTROL ZONE, PROVIDE ADDITIONAL CONTROL ZONES AS REQUIRED FOR EACH DIMMING TYPE.
6. IN ANY APPLICATION WHERE DIMMING IS REQUIRED, THE CONTROLS SHALL BE CAPABLE OF ALLOWING THE USER TO DIM ON THE FULL RANGE OF MAXIMUM OUTPUT TO THE MINIMUM OUTPUT RATING OF THE FIXTURE DRIVER (0.1%, 1%, ETC.)
7. PRIOR TO PASSING FINAL INSPECTION, AN APPROVED AGENCY SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE AS REQUIRED IN CONFORMANCE WITH THE ENERGY CODE ADOPTED BY THE LOCAL JURISDICTION.
8. PROVIDE THE BUILDING OWNER AND OPERATIONS STAFF A MINIMUM OF 8 HOURS OF LIGHTING CONTROL SYSTEM OPERATION AND PROGRAMMING TRAINING PRIOR TO PROJECT COMPLETION.

LIGHTING CONTROL PANEL REQUIREMENTS (APPLIES TO ALL SHEETS):

1. PROVIDE A LIGHTING CONTROL PANEL FOR ALL LIGHTING CONTROL ZONES AS IDENTIFIED ON PLANS AND AS DESIGNATED IN PANEL SCHEDULES.
2. LIGHTING CONTROL PANEL CHARACTERISTICS:
   A. THE LIGHTING CONTROL PANEL SHALL BE PROVIDED WITH 0-10V DIMMING, LINE VOLTAGE DIMMING, AND OTHER DIMMING TECHNOLOGY CAPABILITIES TO BE COMPATIBLE WITH ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL. IT IS INTENDED THAT ALL LIGHT FIXTURES SERVED BY THE LIGHTING CONTROL PANEL ARE DIMMABLE AND CAN BE PROGRAMMED TO MEET IECC 2021 REQUIREMENTS. PROVIDE 0-10V LEADS AS REQUIRED FROM THE LIGHTING CONTROL PANEL TO 0-10V DIMMING FIXTURES AS REQUIRED.
   B. PROVIDE WITH PHOTOCELL TO AUTOMATICALLY SHUT OFF EXTERIOR SITE LIGHTING ZONES WHEN SUFFICIENT DAYLIGHT IS PRESENT.
   C. PROVIDE WITH MANUAL OVERRIDE CAPABILITIES FOR EACH CONTROL ZONE SERVED BY THE LIGHTING CONTROL PANEL.
   D. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING PROGRAMMED FOR 7 DAYS AND CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK. IT SHALL INCORPORATE AN AUTOMATIC HOLIDAY SETBACK FEATURE, AND SHALL HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS UPON POWER INTERRUPTION.
   E. THE LIGHTING CONTROL PANEL SHALL BE CAPABLE OF COMMUNICATING OVER THE NETWORK AND COORDINATING WITH A REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE LIGHTING CONTROL PANEL FOR OFF-SITE REMOTE CONTROL AND MONITORING.

SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
	DOWNLIGHT FIXTURE
	LIGHT FIXTURE - WALL MOUNTED
	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
RECEPTACLES AND OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	POWER POLE
	125/250 VOLT, 1 PHASE, 3-WIRE, 20 AMPS UNLESS NOTED OTHERWISE
	CEILING MOUNTED RECEPTACLE
	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	FLUSH FLOOR CONCEALED SERVICE DUPLEX RECEPTACLE OUTLET
	FLUSH FLOOR CONCEALED SERVICE DOUBLE DUPLEX RECEPTACLE OUTLET
	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS. SIZE TO MATCH DEVICE QUANTITIES.
[R]	REMOTE BLANK FACE GFCI DEVICE.
U	PROVIDE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.
CR	E.C. TO PROVIDE ROUGH-IN FOR CARD READER JUNCTION BOX. REFER TO TECHNOLOGY SHEETS FOR ADDITIONAL INFORMATION.
SR	SWITCH CONTROLLED RECEPTACLE WITH THE TOP RECEPTACLE LOAD CONTROLLED VIA PLUG LOAD SWITCH MEETING 2021 IECC 405.11 REQUIREMENTS. SPLIT LOAD-CONTROLLED RECEPTACLES SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MISCELLANEOUS EQUIPMENT	
FACP	FIRE ALARM CONTROL PANEL
ANNC	FIRE ALARM REMOTE ANNUCIATOR
T	TRANSFORMER FOR DOOR BELL/BUZZER
	CHIME/BUZZER
MOTOR CONTROLLERS AND EQUIPMENT	
	DISCONNECT SWITCH AS REQUIRED
M	MANUAL MOTOR SWITCH AS REQUIRED
	PREWIRED DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
ERMS	ENERGY REDUCTION MAINTENANCE SWITCH
1-L	REFER TO ONE-LINE DIAGRAM
	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES

GENERAL NOTES:

-ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-3R MINIMUM.

FIRE DETECTION AND ALARM REQUIREMENTS:

THE DEVICE LOCATIONS AND QUANTITIES SHOWN ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. SEE THE PROJECT SPECIFICATIONS FOR A COMPLETE DESCRIPTION AND LOCATION OF REQUIRED NOTIFICATION AND INITIATION APPLIANCES. ADDITIONAL CODE REQUIRED DEVICES SHALL BE INCLUDED IN THE PROJECT BID AS DETERMINED BY THE CERTIFIED FIRE ALARM PLANNING SUPERINTENDENT.

FIRE ALARM DESIGN PLANS SHALL BE SUBMITTED TO AUTHORITY HAVING JURISDICTION FOR APPROVAL PRIOR TO INSTALLATION AND THE INSTALLATION MUST BE APPROVED BEFORE THE CERTIFICATE OF OCCUPANCY MAY BE ISSUED.

A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL III IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET) SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, NFPA 72, NFPA 101, IBC 2015 EDITION, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

ELECTRICAL GENERAL NOTES: (NOTES APPLY TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE INDICATED.
2. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO CENTER OF THE COVER PLATE UNLESS OTHERWISE INDICATED.
3. FOR OUTLETS REQUIRING GFCI PROTECTION WHERE THE RECEPTACLE IS CONCEALED SUCH AS IN THE CASE OF A WATER FOUNTAIN OR VENDING MACHINE INSTALLATION, THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY LOCATED ON THESE DRAWINGS.
4. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE.
5. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS, THE CONTRACTOR SHALL BID ACCORDING TO THE MOST STRINGENT REQUIREMENT.
6. IN KITCHENS, BREAK ROOMS AND SIMILAR SPACES, THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DOCUMENTS AND LOCATE ELECTRICAL DEVICES AT LOCATIONS AND ELEVATIONS TO BEST SERVE EACH DEDICATED APPLIANCE.
7. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES.
8. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGNS IN CORRIDORS WHERE THERE IS A CHANGE OF CEILING ELEVATION WITH 10-FEET OF THE EXIT SIGN. THE CONTRACTOR SHALL LOCATE THESE EXIT SIGNS SUCH THAT THEY ARE ON THE LOWER CEILING AND VISIBLE THROUGHOUT THE CORRIDOR SEGMENT.
10. COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED WHERE PENETRATING RATED WALLS AND FLOORS.
11. THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE OWNER. MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
12. FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING ADJUSTMENTS AS REQUIRED BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER DISCIPLINES.
13. IN THE EVENT THAT THERE IS A DISCREPANCY IN THE MINIMUM CIRCUIT AMPACITY (MCA) AND/OR THE MAXIMUM OVERCURRENT PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE MORE STRINGENT REQUIREMENTS.
14. MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, OUTLETS, ETC. AND ADJUST ROUTING AND LOCATIONS ACCORDINGLY.
15. LIGHT FIXTURES, ELECTRICAL OUTLETS AND DISCONNECTING MEANS LOCATED IN MECHANICAL ROOMS AND ATTIC SPACES ARE SHOWN FOR QUANTITY AND CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE LIGHT FIXTURES TO BEST ILLUMINATE WALKING AND WORKING SURFACES, AND LOCATE OUTLETS AND DISCONNECTING MEANS SUCH THEY ARE EASILY ACCESSIBLE FOLLOWING THE INSTALLATION OF ALL DEVICES AND EQUIPMENT IN THESE SPACES.
16. ALL MECHANICAL EQUIPMENT SHALL HAVE A RECEPTACLE INSTALLED WITHIN 25-FEET. A SINGLE RECEPTACLE CAN ACCOMPLISH THIS PURPOSE FOR MULTIPLE PIECES OF EQUIPMENT. A RECEPTACLE LOCATED BELOW A LAY-IN CEILING ON THE SAME LEVEL AS A PIECE OF MECHANICAL EQUIPMENT COMPLIES WITH THIS REQUIREMENT. IN THE EVENT THAT FIELD CONDITIONS DICTATE THAT A RECEPTACLE CAN NOT MEET THIS REQUIREMENT FOR ALL OF THE INTENDED PIECES OF EQUIPMENT IN AN AREA ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED.
17. PROVIDE SYSTEM SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS OF AIR HANDLING UNITS GREATER THAN 2000 CFM. REFER TO DIVISION 23 SCHEDULES FOR UNITS MEETING THIS REQUIREMENT.
18. FOR EACH SMOKE DAMPER OR COMBINATION SMOKE/FIRE DAMPER, PROVIDE A SYSTEM SMOKE DETECTOR AND LOCATE AS REQUIRED. WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' OF THE DAMPER AND LOCATED SUCH THAT THERE ARE NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND DAMPER. WHERE A SMOKE DAMPER IS INSTALLED WITHIN AN UNDUCTED OPENING IN A WALL, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER. WHERE A SMOKE DAMPER IS INSTALLED IN A CEILING, A SYSTEM SMOKE DETECTOR SHALL BE INSTALLED ON THE CEILING WITH 5' OF THE DAMPER.

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DESIGN DEVELOPMENT

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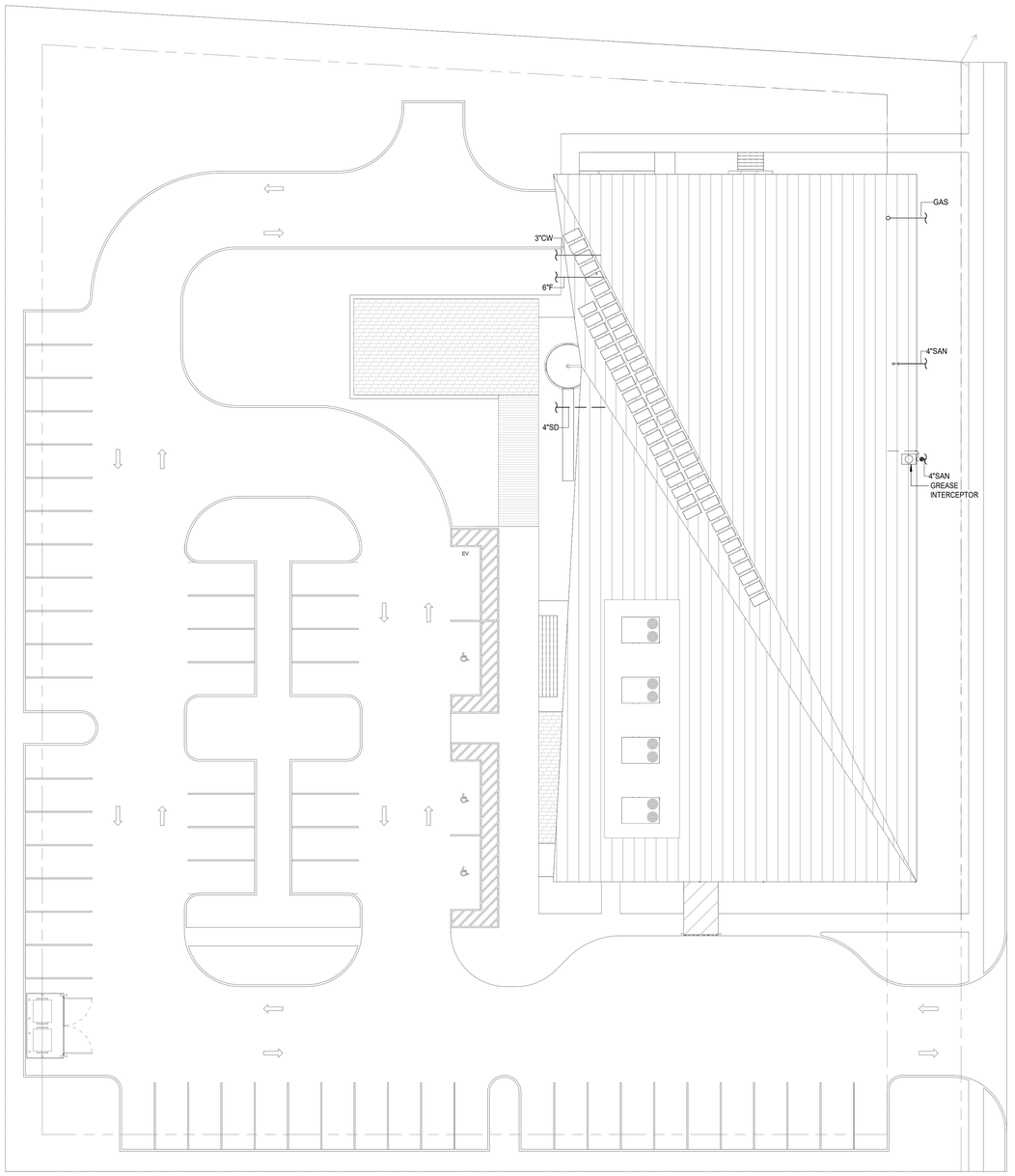
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WDG Project No: 2024002

SHEET NAME
ELECTRICAL SCHEDULES

SHEET NO. E401



N 1 **PLUMBING SITE PLAN**
Scale: 1/16" = 1'-0"

GENERAL NOTES

FIRE SPRINKLER

A. DESIGN AND FURNISH LABOR AND MATERIALS FOR THE COMPLETE INSTALLATION OF A HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE FIRE SPRINKLER SYSTEM WITH THE ATTENDANT ACCESSORIES FOR ENTIRE AREA.

B. STUDY THE GENERAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS, IN ORDER TO BECOME FAMILIAR WITH THE BUILDING AND DETAILS AS THEY APPLY TO THE WORK OF THIS SECTION. COOPERATE WITH OTHERS SO THAT THERE WILL BE NO CONFLICT OF SPACE REQUIRED. DUCTWORK AND ELECTRICAL WORK SHALL TAKE PRECEDENCE OVER OTHER WORK, EXCEPT WHERE IT IS ABSOLUTELY NECESSARY TO MAINTAIN COVERAGE PROTECTION.

C. THE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEMS SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, THE STANDARD BUILDING CODE, REQUIREMENTS OF NFPA PAMPHLET 13, AND OTHER LOCAL AUTHORITIES EXERCISING JURISDICTION.

D. IT SHALL BE THE FIRE PROTECTION INSTALLERS RESPONSIBILITY, PRIOR TO BID, TO VERIFY PRESSURE AT THE PROJECT SITE BY PERFORMING A FLOW TEST. DETERMINE IF THE AVAILABLE STATIC AND RESIDUAL PRESSURE WILL ADEQUATELY PROVIDE THE FIRE EXTINGUISHING SYSTEM WITH THE NECESSARY PRESSURE OR IF A FIRE PUMP, BREAK TANK AND NECESSARY APPURTENANCES ARE REQUIRED.

E. REFER TO SPECIFICATIONS FOR PIPE MATERIALS.

PLUMBING

1. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING ON SITE PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
2. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
3. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
4. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
5. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
6. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
7. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
8. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
9. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
10. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.

SHEET NOTES

LEGEND

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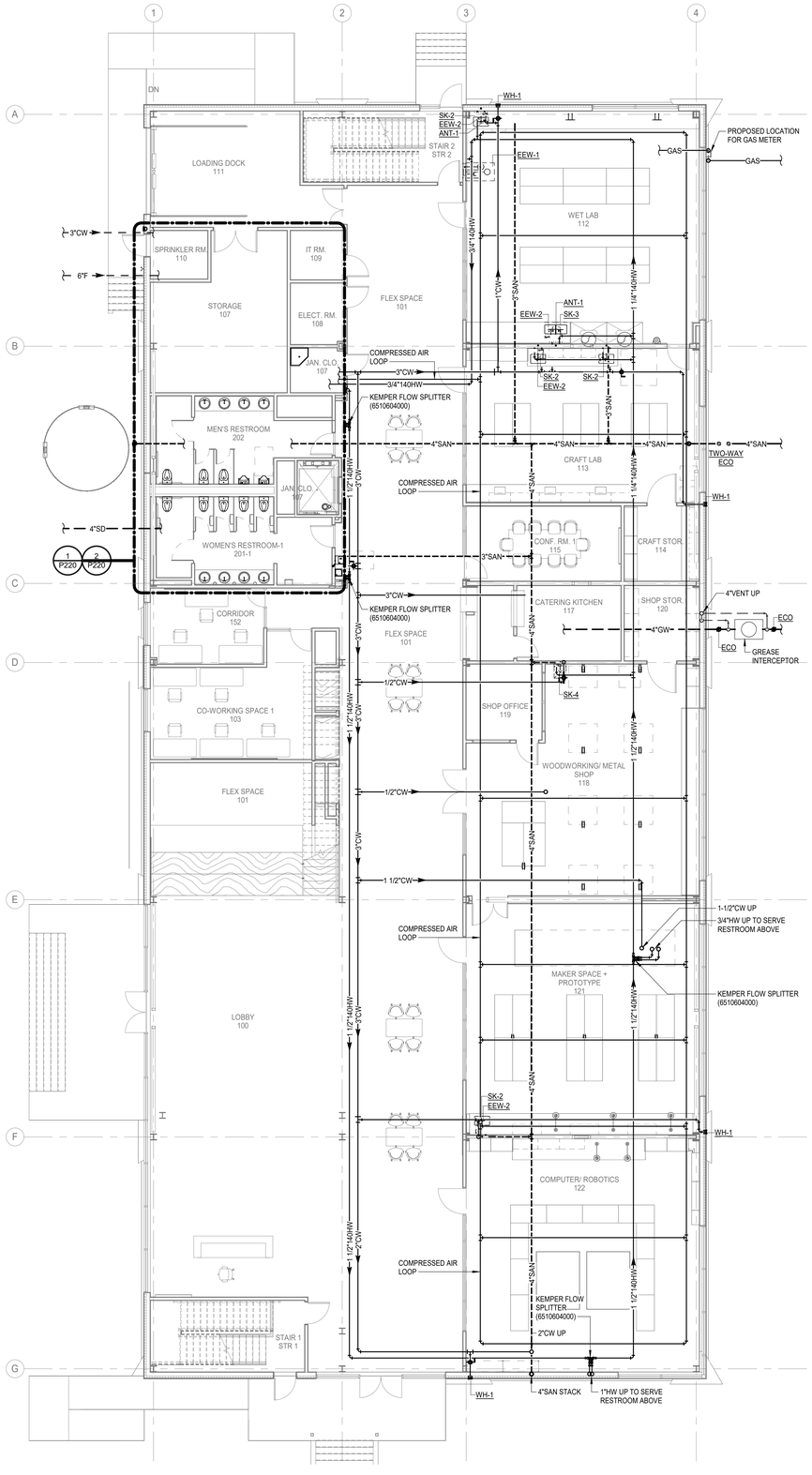
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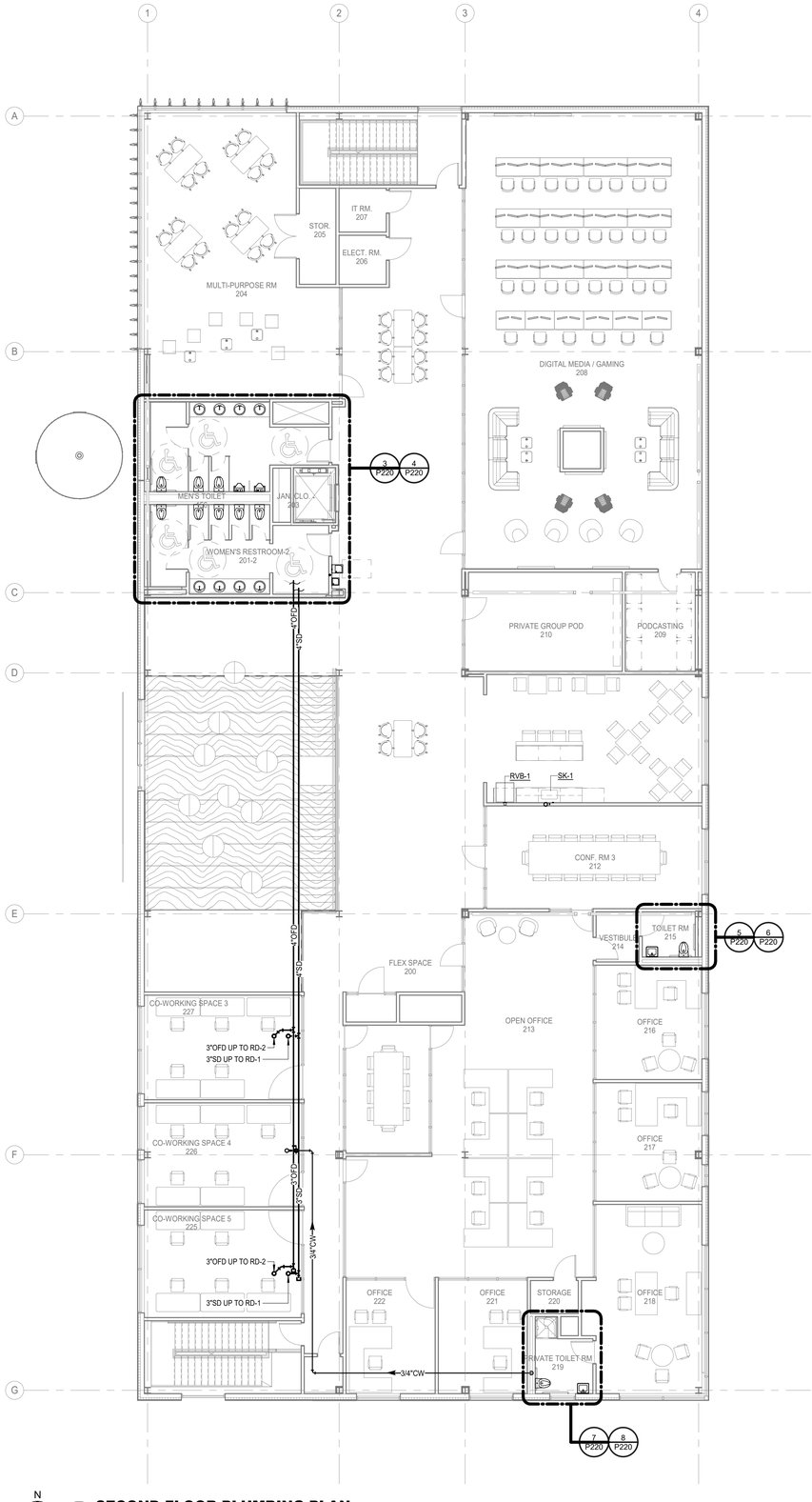
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1 FIRST FLOOR PLUMBING PLAN

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



N

2 SECOND FLOOR PLUMBING PLAN

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

GENERAL NOTES

SHEET NOTES

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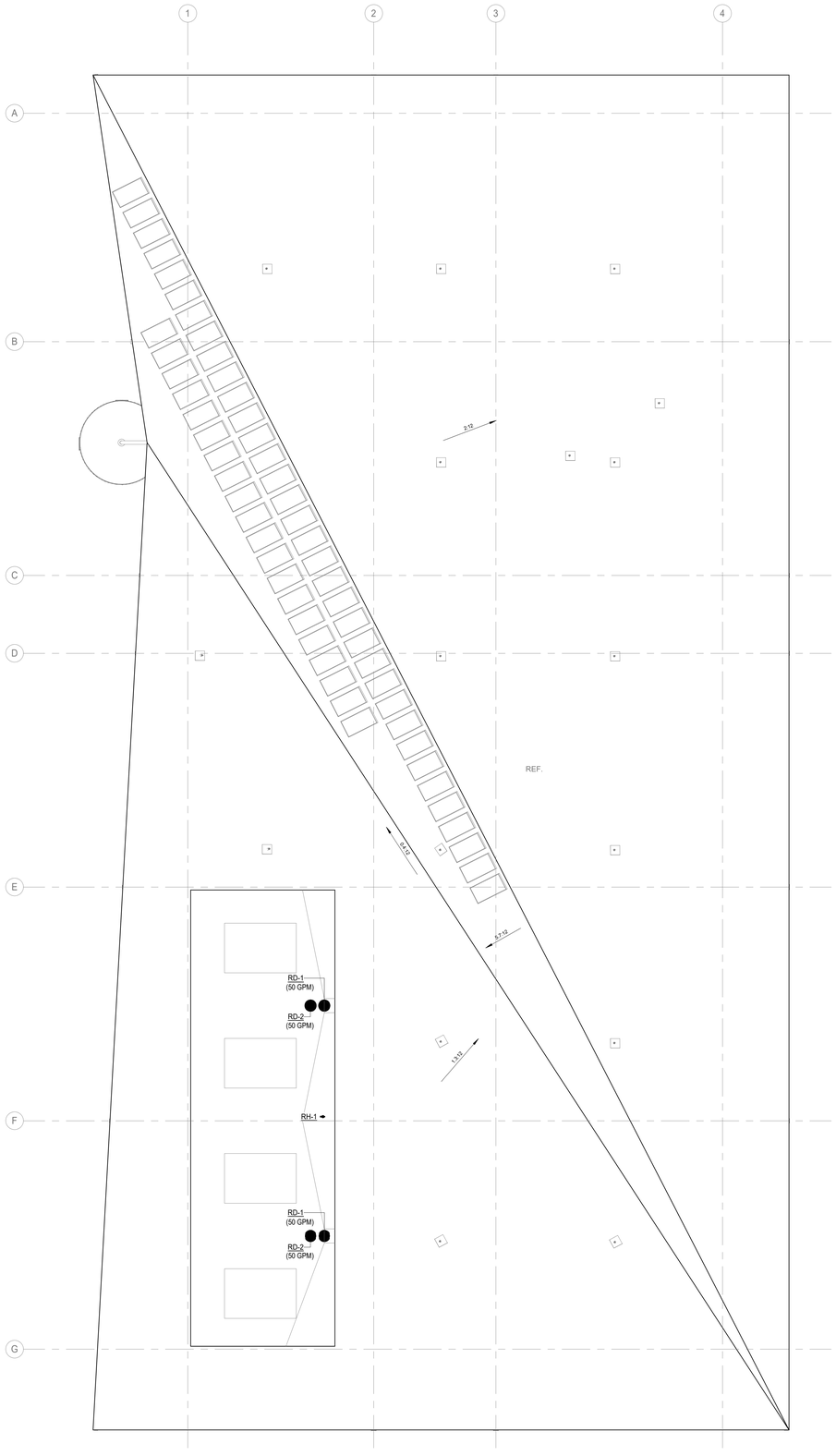
WDG Project No: 2024002

SHEET NAME

PLUMBING FLOOR PLANS

SHEET NO.

P201



N

1 **PLUMBING ROOF PLAN**
Scale: 1/8" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA, 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

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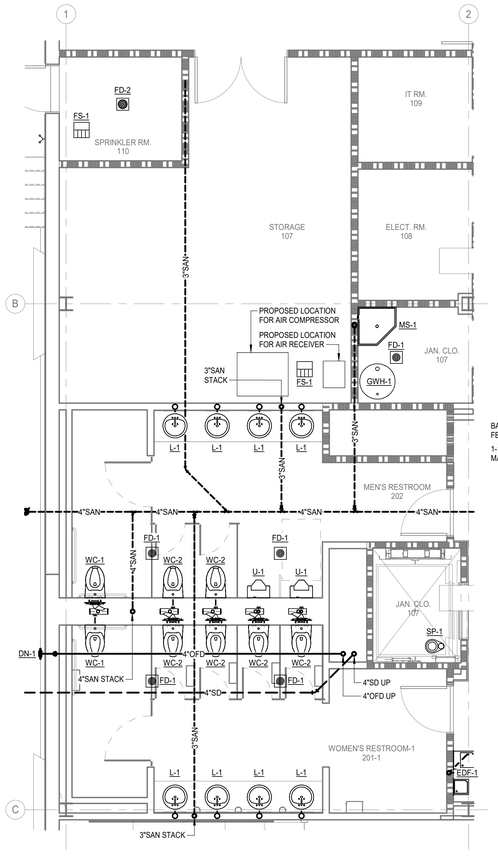
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809

Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
PLUMBING ROOF PLAN

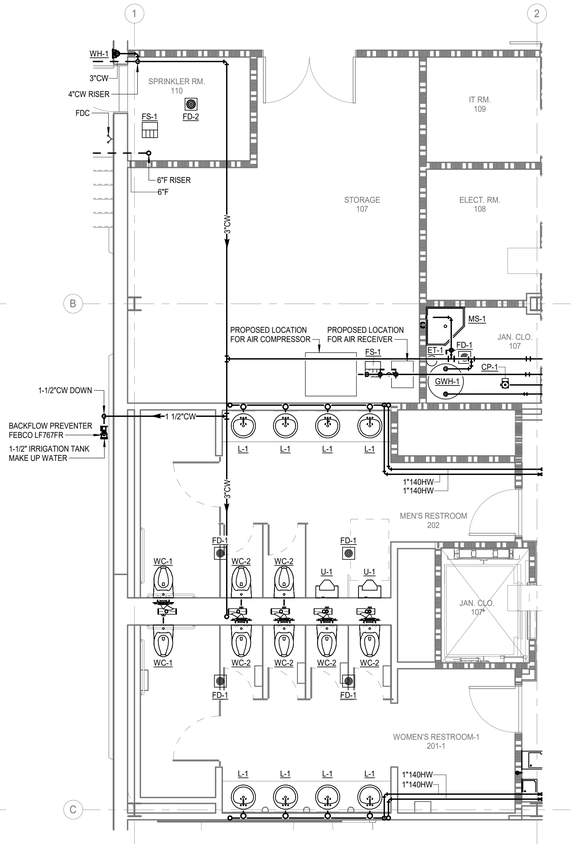
SHEET NO.
P211



N

1 PLUMBING ENLARGED PLAN - SANITARY WASTE AND VENT

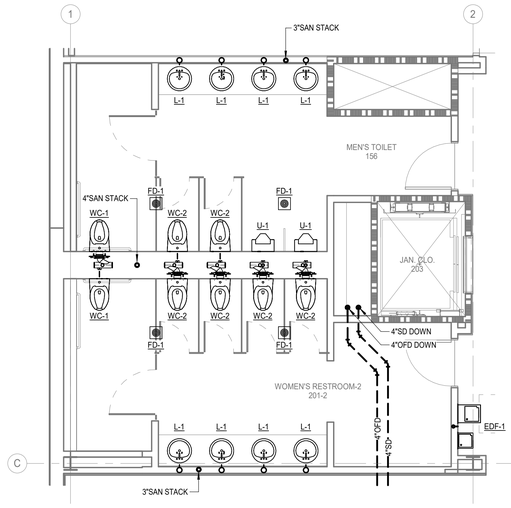
Scale: 1/4" = 1'-0"



N

2 PLUMBING ENLARGED PLAN - WATER

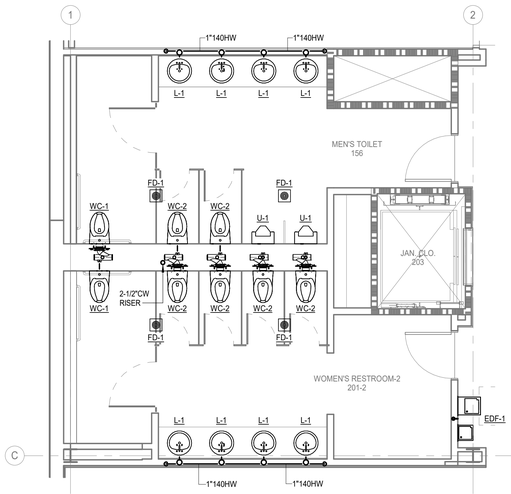
Scale: 1/4" = 1'-0"



N

3 SECOND FLOOR ENLARGED PLUMBING PLAN - SANITARY WASTE AND VENT

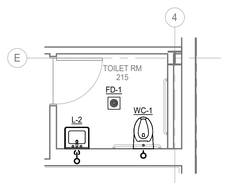
Scale: 1/4" = 1'-0"



N

4 SECOND FLOOR ENLARGED PLUMBING PLAN - WATER

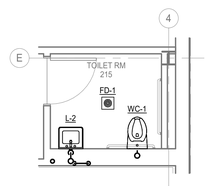
Scale: 1/4" = 1'-0"



N

5 TOILET RM 215 ENLARGED PLAN - SANITARY WASTE AND VENT

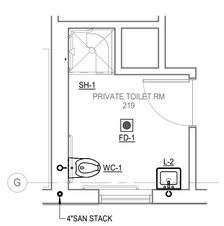
Scale: 1/4" = 1'-0"



N

6 TOILET RM 215 ENLARGED PLAN - WATER

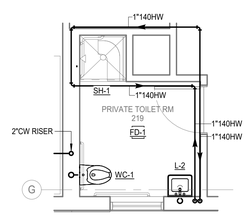
Scale: 1/4" = 1'-0"



N

7 TOILET RM 219 ENLARGED PLAN - SANITARY WASTE AND VENT

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



N

8 TOILET RM 219 ENLARGED PLAN - WATER

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

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

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SPECIALIZED STEM MULTI-PURPOSE BUILDING

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Baton Rouge, LA 70809
Registration: 2964
Project No: 2550-00645

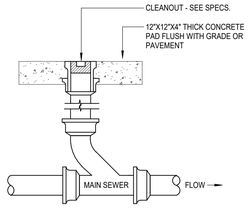
WDG Project No: 2024002

SHEET NAME

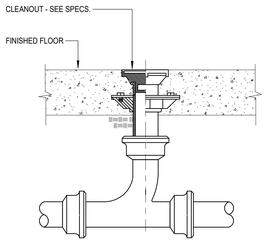
PLUMBING ENLARGED PLANS

SHEET NO.

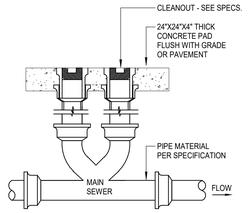
P220



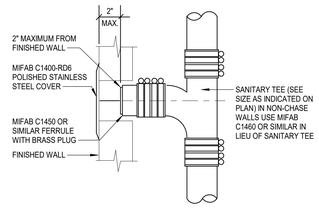
1 EXTERIOR CLEANOUT
SCALE: NONE



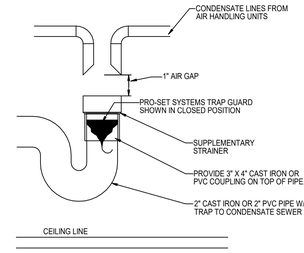
2 FLOOR CLEANOUT
SCALE: NONE



3 TWO-WAY EXTERIOR CLEANOUT
SCALE: NONE

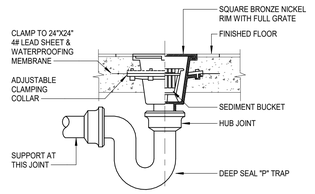


4 WALL CLEANOUT
SCALE: NONE

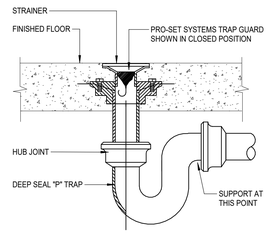


NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH HUB DRAIN BY SIZE, MODEL, AND MANUFACTURER.
2. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

5 HUB DRAIN DETAIL
SCALE: NONE

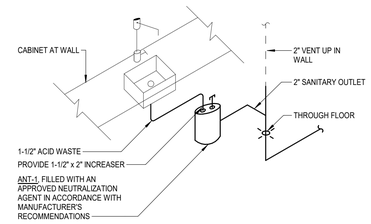


6 FLOOR SINK
SCALE: NONE

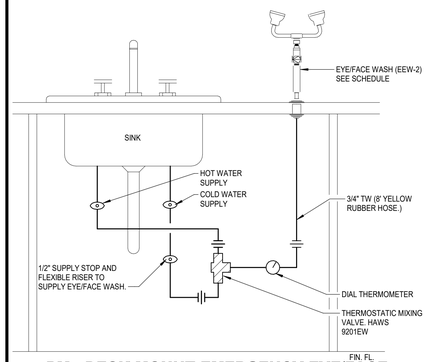


NOTES:
1. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN (AND/FLOOR SINK) BY SIZE, MODEL, AND MANUFACTURER.
2. CONTACT LOCAL REP OR MANUFACTURER FOR CORRECT MODEL NUMBER.
3. FLOOR SINK TRAP GUARD INSTALLATION IS SIMILAR.
4. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TITE SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

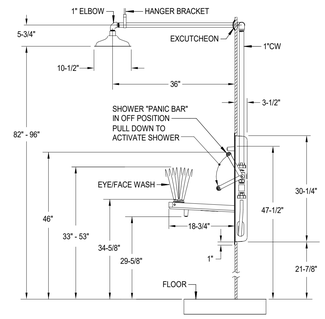
7 TRAP SEAL PROTECTION
SCALE: NONE



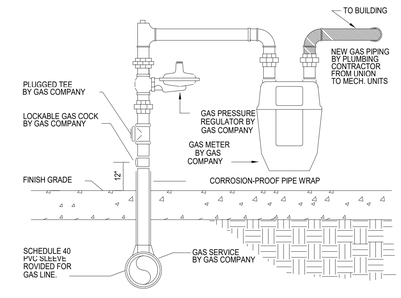
8 LAB SINK DETAIL
SCALE: NONE



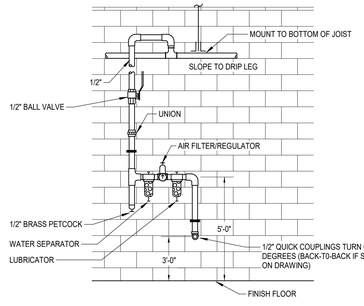
PM - DECK MOUNT EMERGENCY EYE/FACE WASH
SCALE: NONE



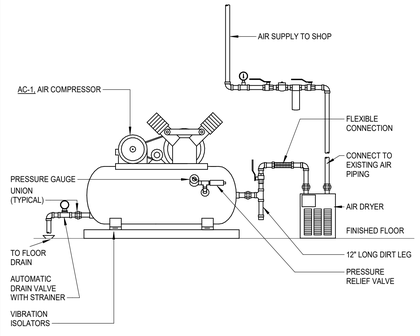
PM - DECK MOUNT EMERGENCY EYE/FACE WASH
SCALE: NONE



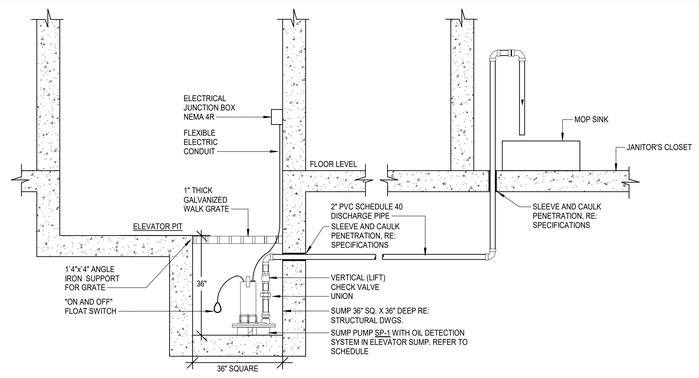
11 GAS SERVICE DETAIL
SCALE: NONE



12 AIR DROP DETAIL
SCALE: NONE



13 SHOP AIR COMPRESSOR PIPING II
SCALE: NONE



14 ELEVATOR PIT SUMP PUMP
SCALE: NONE

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

SPECIALIZED STE

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

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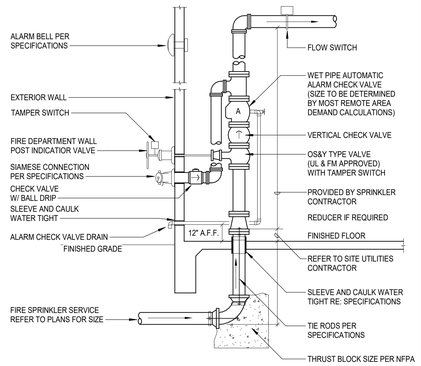
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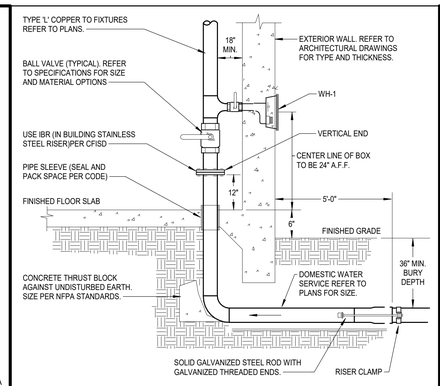
WDG Project No: 2024002

SHEET NAME
PLUMBING DETAILS

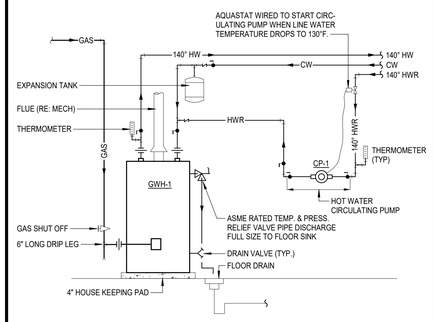
SHEET NO.
P301



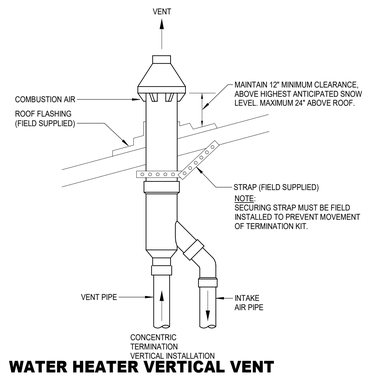
1 **FIRE ENTRY PIPING**
SCALE: NONE



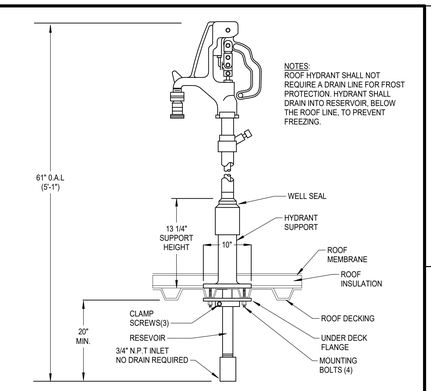
2 **DOMESTIC WATER ENTRY - STAINLESS STEEL**
SCALE: NONE



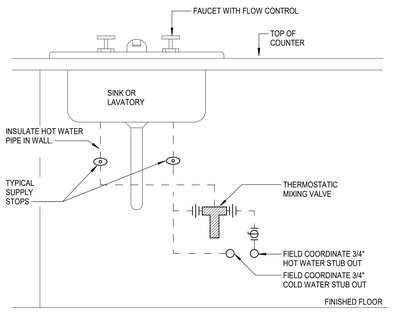
3 **DOMESTIC GAS WATER HEATER PIPING**
SCALE: NONE



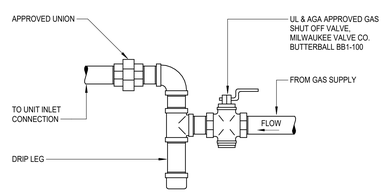
4 **WATER HEATER VERTICAL VENT TERMINATION**
SCALE: NONE



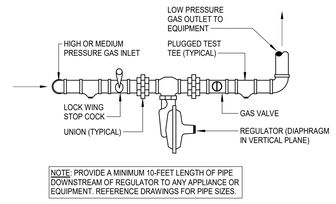
5 **ROOF HYDRANT DETAIL**
SCALE: NONE



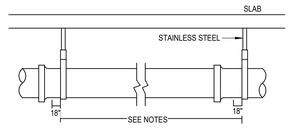
6 **THERMOSTATIC MIXING VALVE PIPING AT SINK OR LAVATORY**
SCALE: NONE



7 **GAS CONNECTION**
SCALE: NONE



8 **GAS PRESSURE REGULATOR PIPING**
SCALE: NONE



NOTE 1: PROVIDE PIPE SUPPORT WITHIN 18" OF EVERY JOINT CONNECTION.
NOTE 2: 7 FOOT MAX BETWEEN EACH SUPPORT ON ALL 4" PIPE AND SMALLER.
NOTE 3: 8 FOOT MAX BETWEEN EACH SUPPORT ON ALL 6" PIPE AND LARGER.

9 **BRACING FOR UNDERGROUND PIPING**
SCALE: NONE

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Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
PLUMBING DETAILS

SHEET NO.
P302

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
SAN	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
SAN	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
GW	GREASE WASTE PIPING (GW)
GW	GREASE WASTE PIPING BELOW GRADE (GW)
SD	STORM DRAIN PIPING (SD)
SD	STORM DRAIN PIPING BELOW GRADE (GW)
AW	ACID WASTE PIPING (AW)
AW	ACID WASTE PIPING BELOW GRADE (AW)
PD	PUMPED DISCHARGE (PD)
	VENT PIPING (V)
CW	COLD WATER PIPING (CW)
HW	HOT WATER PIPING (HW)
HWR	HOT WATER RETURN PIPING (HWR)
F	FIRE PROTECTION PIPING (F)
GAS	NATURAL GAS PIPING (G)
GV	GAS VENT PIPING (GV)
AIR	COMPRESSED AIR PIPING (A)
	FLOW DIRECTIONAL ARROW
	SHUT-OFF VALVE
	BALANCING VALVE (BV)
	SOLENOID VALVE (SV)
	BALL VALVE (BV)
	BUTTERFLY VALVE
	LUBRICATED PACKED PLUG STOP STOP COCK (PC)
	HORIZONTAL SWING CHECK
	UNION
	HORIZONTAL SWING CHECK
	REDUCER OR INCREASER
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	FIRE DEPARTMENT VALVE AT RISER
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	PRESSURE REDUCING VALVE (PRV)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE
	WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	HOSE BIBB
	PRESSURE GAUGE WITH COCK
	THERMOMETER
	GAS PRESSURE REGULATOR
	TEST COCK
	GAS METER
	WALL HYDRANT
	VALVE IN RISE
	ASME TEMPERATURE & PRESSURE RELIEF VALVE
	VACUUM RELIEF VALVE
	ANGLE VALVE
	OS&Y VALVE
	ROOF DRAIN
1	REFER TO KEYED NOTE
FS	FLOW SWITCH
	FLOOR SINK (FS)
	FLOOR DRAIN (FD)
	FLOOR DRAIN WITH P-TRAP (FD)
	HUB DRAIN (HD)
	ACCESS PANEL FOR TRAP PRIMER OR SHOCK ABSORBER
A	SHOCK ABSORBER
VTR	VENT THRU ROOF
B.F.F.	BELOW FINISHED FLOOR
A.F.F.	ABOVE FINISHED FLOOR
	NEW CONNECTION
IE=100.00'	INVERT ELEVATION
1	DELTA CHANGE SYMBOL
P 1 4" VTR	RISER FLAG

GAS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	BTU/HR. INPUT	WH GALS. PER HR. RECOVERY RATE 100°F RISE	STORED WATER TEMP	ELECTRICAL CHAR. V	P	MOCP	REMARKS
GWH-1	A.O. SMITH	BTH-120	60	120,000	138	140 °F	120	1	20	
1	INDIVIDUAL VERTICAL 4" CONCENTRIC FLUE VENT FOR EACH WATER HEATER. PROVIDE CONCENTRIC VENT KIT "9006144005". REFER TO DRAWINGS FOR FLUE ROUTING AND LOCATIONS THROUGH ROOF. CONTRACTOR SHALL COORDINATE FLUE LOCATION THROUGH ROOF AND PIPE ROUTING IN CEILING SPACES WITH ALL OTHER DISCIPLES PRIOR TO CONSTRUCTION.									
2	PROVIDE ACID NEUTRALIZING TANK KIT "9007960005"									

CIRCULATION PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM	HEAD FEET	HP MIN	ELECTRICAL CHAR. V	P	F
CP-1	GRUNDFOS	UP 15-10 B7	CIRCULATION PUMP	INLINE BRONZE	3	3.28	0.034	115	1	60

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME GALLONS	MAX. ACCEPT. GALLONS	DIAMETER (INCHES)
ET-1	WATTS	DETA 5	HOT WATER EXPANSION TANK	150	3.5	2.3	10"
1	PROVIDE ASME POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.						
2	PROVIDE UNION CONNECTION.						

SUMP PUMP SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	TYPE	GPM HP	HEAD FEET	HORSE POWER MIN.	ELECTRICAL CHAR. V	P	F	MAX RPM
SP-1	GOULDS	3872 #WW0511F	SEWAGE EJECTOR	DUPLEX SUBMERSIBLE	12	18'-0"	0.50 hp	120	1	60	1550

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOLS:	FIXTURE UNITS:	THREADED CONNECTION	CERTIFICATION
A	1 - 11	1/2"	ASSE 1010
B	12 - 32	3/4"	ASSE 1010
C	33 - 60	1"	ASSE 1010
D	61 - 113	1"	ASSE 1010
E	114 - 154	1"	ASSE 1010
F	155 - 330	1"	ASSE 1010

GAS EQUIPMENT SCHEDULE

EQUIPMENT NUMBER	DESCRIPTION	BTU PER HOUR LOAD	TOTAL BTU PER HOUR	TOTAL CFH
GWH-1	GAS WATER HEATER	120,000 BTUH	120,000 BTUH	120 CFH
TOTALS:			-	-

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
ACID NEUTRALIZATION TANK (ANT)	
ANT-1	DESCRIPTION: ACID NEUTRALIZATION TANK, UNDERCOUNTER, 5-3/4" X 12" X 13-1/2" HIGH DENSITY POLYETHYLENE NEUTRALIZATION TANK WITH 2 GALLON CAPACITY, 2" FIP INLET, 2" FIP OUTLET, AND 3" TOP GASKETED ACCESS PORT. TANK TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. STRIEM LB-2-ADA ROUGH-IN: COORDINATE PLACEMENT WITH FINAL CASEWORK PLANS TO INSURE ACCESS FOR MAINTENANCE AND TO MAINTAIN ALL REQUIRED CLEARANCES.
DRAINAGE FIXTURE (CO, FD, FS, HD, TD)	
DN-1	DESCRIPTION: OVERFLOW DOWNSPOUT NOZZLE. CAST BRONZE WITH THREADED OR NO HUB OUTLET AND FLANGE TO SECURE NOZZLE TO WALL. INSTALL AT 12" ABOVE FINISHED SLAB OR AS DIRECTED BY ARCHITECT. WADE 3941-VP. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
ECO	DESCRIPTION: EXTERIOR CLEANOUT TO GRADE. CAST IRON BODY WITH ADJUSTABLE TOP ASSEMBLY WITH GASKET SEAL, AND ROUND SCORIATED VANDAL RESISTANT DUCTILE IRON TRACTOR TYPE COVER. IF LOCATED IN ASPHALT OR DIRT PROVIDE 18"X18"X12" CONCRETE PAD. WADE 6000-Z.
FD-1	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR6. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FD-2	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 9" DIAMETER STRAINER. WADE 1100-FC-.-TSD TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
FS-1	DESCRIPTION: A.R.E. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE, AND HALF TOP GRATE. WADE 9140-8-15-26-64. TRAP SEAL: PROVIDE PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES. COORDINATE FINAL LOCATION WITH EQUIPMENT PLACEMENT.
RD-1	DESCRIPTION: ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-4-6-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
RD-2	DESCRIPTION: OVERFLOW ROOF DRAIN. CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, ALUMINUM DOME, 2" HIGH WATER DAM, BEARING PAN, UNDERDECK CLAMP AND ADJUSTABLE EXTENSION AS REQUIRED FOR ROOF CONSTRUCTION. WADE 3000-D-46-52-53. ROUGH-IN: REFER TO FLOOR PLANS FOR SIZES.
DRINKING FOUNTAIN (EDF)	
EDF-1	DESCRIPTION: WALL HUNG, BARRIER FREE, BI-LEVEL ELECTRIC DRINK FOUNTAIN WITH ELECTRONIC BOTTLE FILLER STATION AND SHIELDED VANDEL-RESISTANT BUBBLER. 8 GPH OF 50 DEGREE WATER AT 90 DEGREE AMBIENT AND 80 DEGREE INLET WATER. ELKAY LZSTLBWSLP. PROVIDE CANE TOUCH SKIRT TO COMPLY WITH ADA GUIDELINES. P-TRAP: 1-1/4" CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISER. MCGUIRE 2165. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE SLAB WITH (4) 1/2" BOLTS. ADJUSTABLE SLEEVE FOR CONNECTION TO HANGER PLATE PROVIDED BY FIXTURE MANUFACTURER. MIFAB MC-33. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
EMERGENCY EYE WASH (EEW)	
EEW-1	DESCRIPTION: BARRIER-FREE WALL-MOUNTED SHOWER AND RECESSED EYE/FACE WASH WITH DRAIN PAN. 18 GAUGE, TYPE 304 STAINLESS STELL RECESSED CABINET. STAINLESS STEEL SHOWERHEAD, PULL-DOWN DESIGN, 20 GPM FLOW. HAWS MODEL 8356WCW. ROUGH-IN: 2" DRAIN, 1-1/4" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
EEW-2	DESCRIPTION: ADA COMPLIANT, SINK MOUNT EYE/FACE WASH, 4.2 GPM FLOW CONTROL WITH PULL-DOWN ACTIVATION. HAWS MODEL 7610. ROUGH-IN: 1/2" COLD WATER. COORDINATE FINAL LOCATION / HEIGHT WITH ARCHITECTURAL DRAWINGS.
HYDRANTS (HB, RH, WH)	
RH-1	DESCRIPTION: FREEZELESS ROOF HYDRANT, NO DRAIN REQUIRED, BACKFLOW PREVENTER, LIFT HANDLE AND AIR VENT. WOODFORD SRH-MS ROUGH-IN: 3/4"CW
LAVATORY (L)	
L-1	DESCRIPTION: LAVATORY, UNDER COUNTER MOUNT, VITREOUS CHINA, 17-1/8" X 14-1/8" WITH FRONT OVERFLOW, DECK FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "OVALYN" 0495.221. FAUCET:CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH 4" SPOUT AND 2-3/8" LEVER HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 0.5 GPM. CHICAGO MODEL 802-VE2805ABCP TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. STRAINER: 1-1/4" 17 GAUGE CHROME PLATED BRASS GRID STRAINER WITH TAILPIECE. MCGUIRE #155A. P-TRAP:1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
L-2	DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 18-1/2"X 17" BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. AMERICAN STANDARD "LUCERNE" 0355.027. FAUCET:CHROME PLATED BRASS DECK MOUNTED LAVATORY FAUCET WITH 4" SPOUT AND 2-3/8" LEVER HANDLES ON 4" CENTERS. QUARTER TURN CERAMIC DISC OPERATING CARTRIDGES, VANDAL RESISTANT 0.5 GPM. CHICAGO MODEL 802-VE2805ABCP STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. GRAVITY FED TRAP PRIMER TAILPIECE, 1/2" NOMINAL BRANCH CONNECTION. SIOUX CHIEF" 213-092. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5PSI PRESSURE DIFFERENTIAL, 0.5GPM MIN FLOW/4GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. INSTALL PER EVERY TWO FIXTURES. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE WS20-M36. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
MOP SINK (MS)	
MS-1	DESCRIPTION: MOP SINK BASIN, 32" X 32" X 12" HIGH CORNER TYPE, PRECAST TERRAZZO WITH 6" DROPPED FRONT, STAINLESS STEEL THRESHOLD CAP, AND DOUBLE STAINLESS STEEL WALL GUARDS.STERN-WILLIAMS "CORLOW" SBC-1725. FAUCET:CHROME PLATED BRASS WALL MOUNTED FITTING WITH CHECK IN STOPS, ADJUSTABLE SUPPLY ARMS, VACUUM BREAKER SPOUT WITH PAIL HOOK AND WALL BRACE, 2-1/2" INDEXED LEVER HANDLES ON 8" CENTERS. QUARTER TURN CARTRIDGES, 3/4" MALE HOSE THREAD OUTLET. CHICAGO 445-897-CP. ROUGH-IN: 3" WASTE, 2" VENT, 1/2" HOT AND COLD WATER.
REFRIGERATED VALVE BOX (RVB)	
RVB-1	DESCRIPTION: RECESSED VALVE BOX, 7"X 7", 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH, 1/2" THREADED CONNECTION DOMESTIC VALVE. PROVIDE FILTER WHEN MAKING FINAL CONNECTION. GUY GRAY BIM-875 WITH AQUA-PURE AP717 FILTER. ROUGH-IN: 1/2" COLD WATER
SHOWER (SH)	
SH-1	DESCRIPTION: MOLDED, FOUR PIECE, BARRIER FREE SHOWE MODULE, SUBWAY TILE SIMULATED WALL FINISH, BESTBATH MODEL 4LBS3636BST CONTROLS: COMMERCIAL SERIES, CHROME PLATED METAL 3-FUNCTION TRANSFER VALVE PRESSURE BALANCING TYPE SHOWER MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE TEMPERATURE TO LIMIT HAND TURN, 2.5 GPM SHOWER HEAD. HAND-HELD SHOWER WITH NON-POSITIVE PAUSE AND 69" FLEXIBLE STAINLESS STEEL CLAD HOSE, VACUUM BREAKER, MOUNTING BRACKET AND 30" SLIDE BAR. MOEN 8342. DRAIN: FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE 5" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. WADE 1100-MR5. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS AND FOR LOCATION/CONFIGURATION OF CONTROLS, ACCESSORIES, ETC. FINAL INSTALLATION TO BE A.D.A. COMPLIANT.

PLUMBING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION
SINK (HS, SK)	
SK-1	DESCRIPTION: SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 302 STAINLESS STEEL, 22" X 19.5" X 5.5" DEEP, SINGLE COMPARTMENT WITH FAUCET DECK. SINGLE FAUCET HOLE ON 4" CENTERS. ELKAY "LUSTERTONE" LRAD 221955. FAUCET: CHROME PLATED FAUCET WITH SPRAY HANDLE, SINGLE HANDLE WITH 9" SPOUT, VANDAL RESISTANT AERATOR WITH A MAX FLOW 1.5GPM. MOEN 8701. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. ROUGH-INS: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
SK-2	DESCRIPTION: SINGLE BOWL LABORATORY SINK WITH FAUCET AND DRAIN WITH TAILPIECE ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. THE PLUMBING CONTRACTOR SHALL MAKE WATER AND LAB WASTE CONNECTIONS. WATER PIPING SHALL BE 1/2" TYPE L HARD DRAWN COPPER WITH BALL OR GLOBE VALVE STOPS. P-TRAP SHALL BE 1-1/2" FULL DROP UNION POLYPROPYLENE. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-3	DESCRIPTION: DOUBLE BOWL LABORATORY SINK WITH FAUCET AND DRAIN WITH TAILPIECE ARE TO BE SPECIFIED AND INSTALLED BY THE LAB CASEWORK CONTRACTOR. THE PLUMBING CONTRACTOR SHALL MAKE WATER AND LAB WASTE CONNECTIONS. WATER PIPING SHALL BE 1/2" TYPE L HARD DRAWN COPPER WITH BALL OR GLOBE VALVE STOPS. P-TRAP SHALL BE 1-1/2" FULL DROP UNION POLYPROPYLENE. WHERE A DECK MOUNTED EYEWASH IS SHOWN ON LAB CASEWORK PLANS, THE PLUMBING CONTRACTOR SHALL MAKE 3/4" TEPID WATER CONNECTION TO EYEWASH WITH TYPE L HARD DRAWN COPPER PIPE WITH BALL OR GLOBE VALVE STOPS PROVIDE ESCUTCHEONS AT ALL WALL OR FLOOR PIPE PENETRATIONS. LOCATE PIPE WITHIN CASEWORK UTILITY SERVICE CHASE WHERE PROVIDED. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" ACID WASTE, 2" ACID VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL/CASEWORK DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-4	DESCRIPTION: FREE STANDING, SINGLE COMPARTMENT WITH LEGS, HEAVY DUTY TUB SINK. FIAT TAT-1. FAUCET:CHROME PLATED FAUCET ON 4" CENTERS, WRIST BLADE HANDLES, SWING SPOUT, AERATOR, AND HOSE ADAPTER INCLUDED WITH SINK PACKAGE. STRAINER: INTEGRAL DRAIN INCLUDED WITH SINK PACKAGE. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-IN: 2" WASTE, 2" VENT, 1/2" HOT AND COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
URINAL (U)	
U-1	DESCRIPTION: URINAL, ADA COMPLIANT, WALL HUNG, WHITE VITREOUS CHINA, 0.5 GALLON PER FLUSH WASHOUT FLUSH ACTION. AMERICAN STANDARD "WASHBROOK" 6590.001. FLUSH VALVE: 0.5 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 186-0.5. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. ROUGH-IN: 2" WASTE, 2" VENT, 3/4" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WALL HYDRANT (WH)	
WH-1	DESCRIPTION: ENCASED, WALL HYDRANT, NON FREEZE, LEAD FREE, HALF TURN CERAMIC DISC CARTRIDGE, INTEGRAL BACKFLOW PREVENTER WITH ANTI SIPHON TECHNOLOGY. INSTALL WITH BOTTOM OF HYDRANT 18" A.F.F. WADE 8701. ROUGH-IN: 3/4" COLD WATER
WATER CLOSET (WC)	
WC-1	DESCRIPTION: WATER CLOSET (A.D.A. COMPLIANT), WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: ADA COMPLIANT, MANUAL FLUSH VALVE, 1.28 GPF, ADJUSTABLE TAILPIECE, SLOAN ROYAL 111 CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
WC-2	DESCRIPTION: WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. AMERICAN STANDARD "AFWALL" 3351.101. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, SENSOR TYPE, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN OPTIMA 111-1.28. CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. ROUGH-INS: 4" WASTE, 3" VENT, 1" COLD WATER. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.

GENERAL NOTES

ALL LAVATORIES AND SINKS SHALL BE SUPPLIED WITH HOT AND COLD WATER (UNLESS NOTED TO BE COLD WATER ONLY) TO FAUCETS AS INDICATED ON PLANS AND FIXTURE SCHEDULE. PROVIDE CHROME PLATED BRASS SUPPLY STOPS WITH LOOSE KEYS AND WALL ESCUTCHEONS. PROVIDE CHROME PLATED FLEXIBLE RISERS OF SIZE REQUIRED TO PROPERLY CONNECT FIXTURES. PROVIDE 17 GAUGE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON (UNLESS NOTED TO BE AN ACID WASTE FIXTURE). REFER TO FIXTURE SCHEDULE FOR MINIMUM SIZES OF PLUMBING FIXTURE ROUGH-INS.

INSULATION KITS AT ALL LAVATORIES AND SINKS REQUIRED TO BE A.D.A. ACCESSIBLE (MCGUIRE OR TRUEBRO). ALL SUCH FIXTURES AND FINAL INSTALLATIONS SHALL COMPLY WITH THE STATE ACCESSIBILITY STANDARDS REQUIREMENTS.

INSERT TRAP GUARDS AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS-TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION. INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

PROVIDE AND INSTALL ACID RESISTANT P-TRAPS ON ALL LAB ROOM SINKS.

WILLARD DESIGN GROUP
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STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF DAVID BONAVENTURE, P.E. 31064 ON OCTOBER 10, 2024. IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

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SHEET NAME
PLUMBING SCHEDULES

SHEET NO. P401

TECHNOLOGY LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
'#' ▼	WALL MOUNTED NETWORK OUTLET D#: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF, UNLESS OTHERWISE NOTED	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
V# ▽	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W ▼	WALL MOUNTED NETWORK OUTLET	+44" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
B ▽	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
D# ▼	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
'#'	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT D#: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNCUT PLASTIC PROTECTIVE BUSHING.
5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ACP	ACCESS CONTROL SYSTEM, CONTROL PANEL.	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER. NOTE #4.
CR '#'	ACCESS CONTROL CARD READER. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
CR	DOOR MOUNTED ACCESS CONTROL CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE.	+42" AFF	N/A	
DS '#'	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. *W - INDICATES WALL MOUNTED READER *M - INDICATES MULLION MOUNTED READER	+42" AFF	*W: 1-G, 3/4" C *M: 3/4"C	COORDINATE POWER. NOTE #4.
DS	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION.	+42" AFF, FIELD COORDINATE		COORDINATE POWER. NOTE #4.
MS	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION.	DESK MOUNTED UNO		COORDINATE POWER. NOTE #4.
DR	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
REX	PIR MOTION REQUEST TO EXIT DEVICE			
DP	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR.
RFID	VEHICLE RFID TAG READER.		FIELD COORDINATE RACEWAYS AND BACK BOXES	PROVIDE NECESSARY EQUIPMENT FOR A FULLY FUNCTIONAL VEHICLE ENTRY POINT

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTERCOM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
ICS	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT.	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC
S	CEILING MOUNTED INTERCOM SPEAKER, LAY-IN CEILING	CEILING	CONTRACTOR PROVIDED	
S2	CEILING MOUNTED INTERCOM SPEAKER, HARD CEILING.	CEILING	CONTRACTOR PROVIDED	
S3	WALL MOUNTED INTERIOR INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
S4	WALL MOUNTED EXTERIOR INTERCOM SPEAKER	+10' AFF UNO	CONTRACTOR PROVIDED	
# IP	IP BASED SPEAKER. '#' TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER.	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
VC	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
CB	INTERCOM CALL BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
C2	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RPS	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
ACS	ADMINISTRATIVE CALL STATION.	DESK TOP	N/A	NOTE #5
LD	LOCKDOWN BUTTON	+48" AFF	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

VIDEO SURVEILLANCE LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
	WALL/CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
W W	2-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
W	1-SENSOR CAMERA W: INDICATES WALLMOUNTED CAMERA	REFERENCE FLOOR PLANS	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
VRS	VIDEO RECORDING SERVER			NOTE #5
#MU	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

AUDIO/VIDEO LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
WMP ▽	WALL MOUNTED PROJECTOR AV OUTPUT OUTLET	REFERENCE FLOOR PLANS.	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CMP	CEILING MOUNTED PROJECTOR AV OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
AV-1 ▽	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	
FSD-1 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
FSD-2 ▽	WALL MOUNTED FLAT SCREEN DISPLAY AUDIO/VIDEO OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
IVD ▽	INTERACTIVE VIDEO DISPLAY AUDIO/VIDEO OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"X4 11/16"X2-1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25"C	NOTE #5
CP ▽	AV CONTROL PANEL	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	NOTE #5
PS	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

LOCAL SOUND SYSTEM LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
LS	LOCAL SOUND SYSTEM SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"X4"X2 1/8" J BOX WITH COVER, 1"C	
LSC	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MI	MICROPHONE INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
MA	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
AI	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
H	HANGING MICROPHONE	CEILING MOUNT	N/A	
ABM	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
RACK	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
WA	WIRELESS ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
ALA	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
SUB	SUBWOOFER	CEILING MOUNT UNO		

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

INTRUSION LEGEND

SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
IDP	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2) - 1"C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
KP	INTRUSION DETECTION SYSTEM KEYPAD.	+48" AFF TO TOP	4"X4"X2 1/8" BACK BOX WITH 1-G MUD RING, 1"C	
M	CEILING MOUNTED MOTION DETECTOR	CEILING		
M	WALL MOUNTED MOTION DETECTOR LR: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
GB	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
DC	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR.	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR.
SDC	SURFACE MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
ODC	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT.	SURFACE MOUNTED ON DOOR FRAME	N/A	
DB	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:
1. #-G INDICATES BACK BOX SIZE.
2. #-C INDICATES CONDUIT SIZE.
3. UNO: UNLESS NOTED OTHERWISE
4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK

SUBSCRIPTS AND ABBREVIATIONS

TEXT	DESCRIPTION
'WP'	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
●	FIELD COORDINATE ELEVATION
AFF	ABOVE FINISHED FLOOR
'UC'	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY

SUBSCRIPTS LEGEND - EXISTING DEVICES

TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN.
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'RR'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

INTERCOM GENERAL NOTES

1. THE FOLLOWING AREAS SHALL BE ZONED SEPARATELY:
   1)CAFETERIA - ZONE 1
   2)KITCHEN - ZONE 2
   3)GYMNASIUM - ZONE 3
   4)LIBRARY - ZONE 4
   5)ADMIN - MAIN OFFICE - ZONE 5
   6)EXTERIOR - ZONE 6
   7)CORRIDOR - ZONE PER AREA
   8)RESTROOM - ZONE WITH ASSOCIATED AREAS.
2. CONTRACTOR TO TAP ALL SPEAKERS WITHIN THE GYMNASIUM AND CAFETERIA AT 4 WATTS.
3. CONTRACTOR TO TAP ALL EXTERIOR SPEAKERS AT 7 WATTS.

NOTES TO CONTRACTOR

1. EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
2. SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECT'S ELECTRICAL CONTRACTOR.
3. CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

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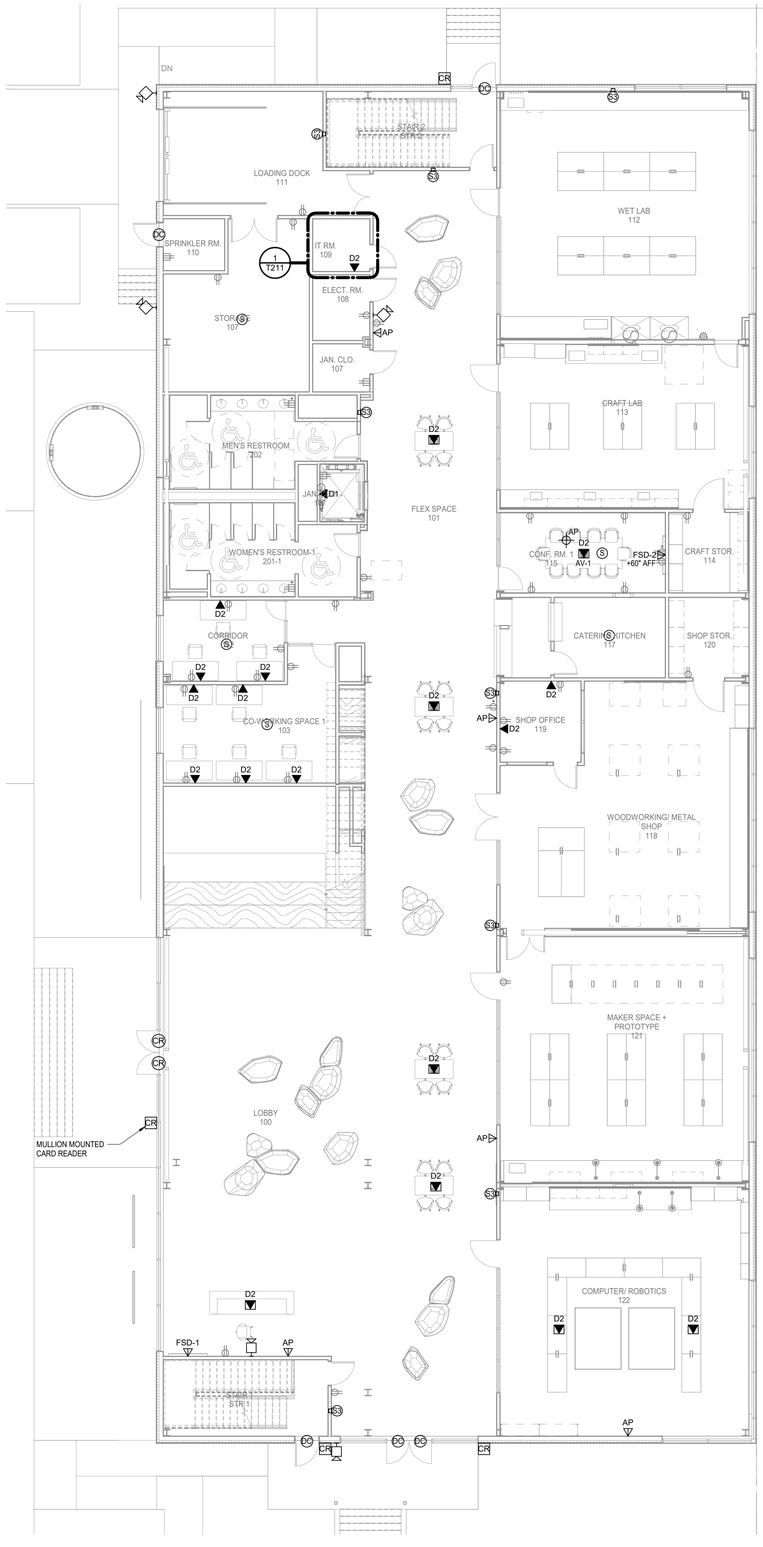
Salas O'Brien
salasobrien.com 225-766-8002
Baton Rouge
5215 Essen Lane, Suite 100
Baton Rouge, LA 70809

Registration: 2964
Project No: 2550-00645

WDG Project No: 2024002

SHEET NAME
TECHNOLOGY NOTES AND LEGENDS

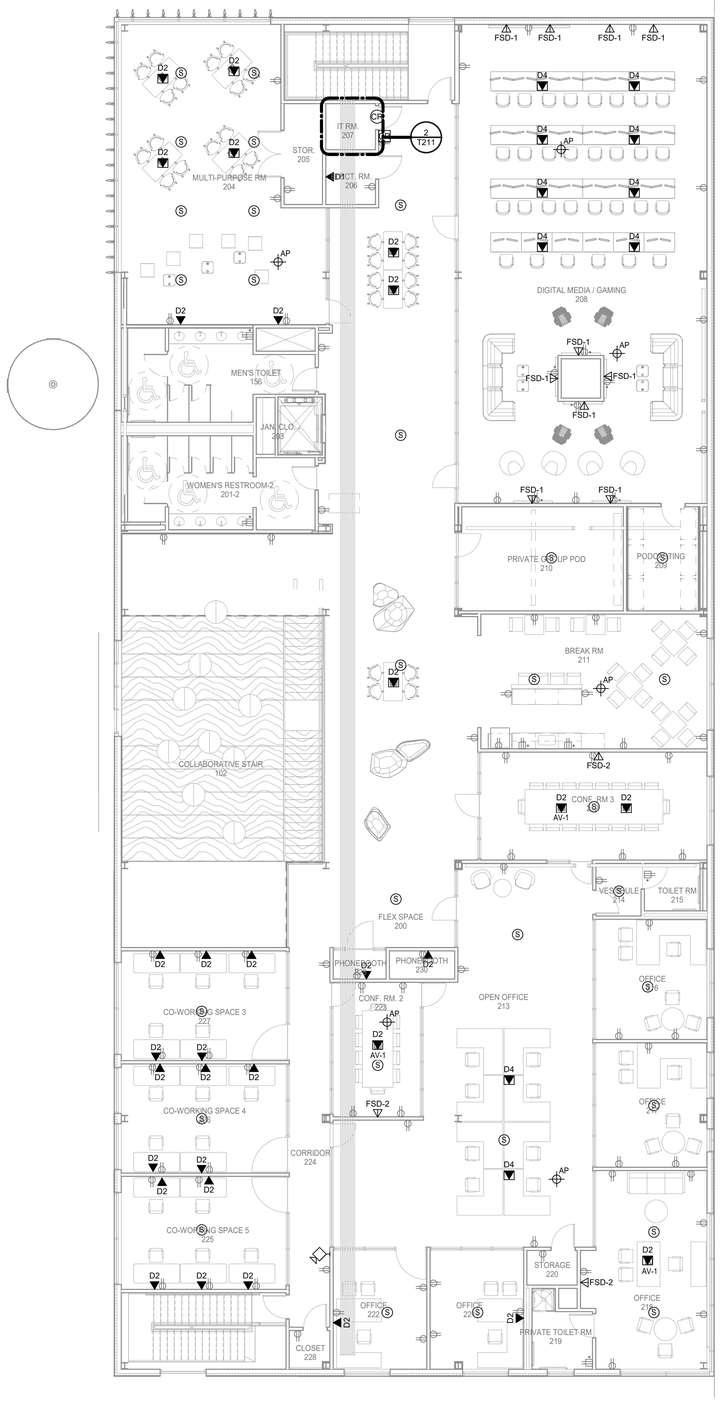
SHEET NO.
T000



N

1 FIRST FLOOR TECHNOLOGY PLAN

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



N

2 SECOND FLOOR TECHNOLOGY PLAN

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

GENERAL NOTES

SHEET NOTES

LEGEND

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

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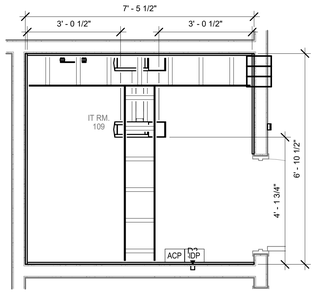
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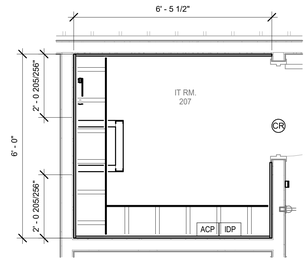
SHEET NAME
TECHNOLOGY FLOOR PLANS

SHEET NO. T201



N

1 ENLARGED PLAN - IT RM. 109
Scale: 1/2" = 1'-0"



N

2 ENLARGED PLAN - IT RM. 207
Scale: 1/2" = 1'-0"

GENERAL NOTES

SHEET NOTES

LEGEND

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WILLARD DESIGN GROUP
4455 SAINT ROCH AVE, NEW ORLEANS, LA, 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING
6800 PLAZA DRIVE, NEW ORLEANS,LA 70127
DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
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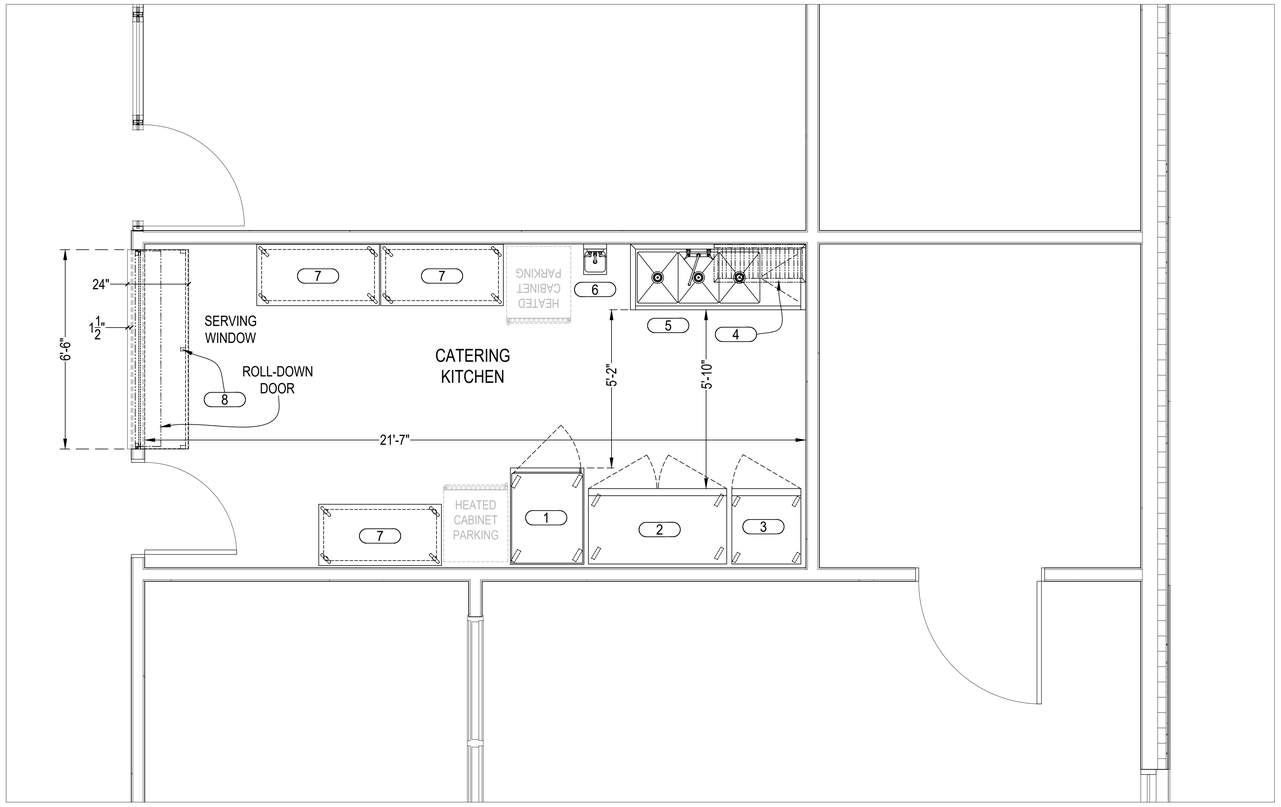
REVISIONS

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WDG Project No: 2024002

SHEET NAME
TECHNOLOGY ENLARGED PLANS

SHEET NO.
T211

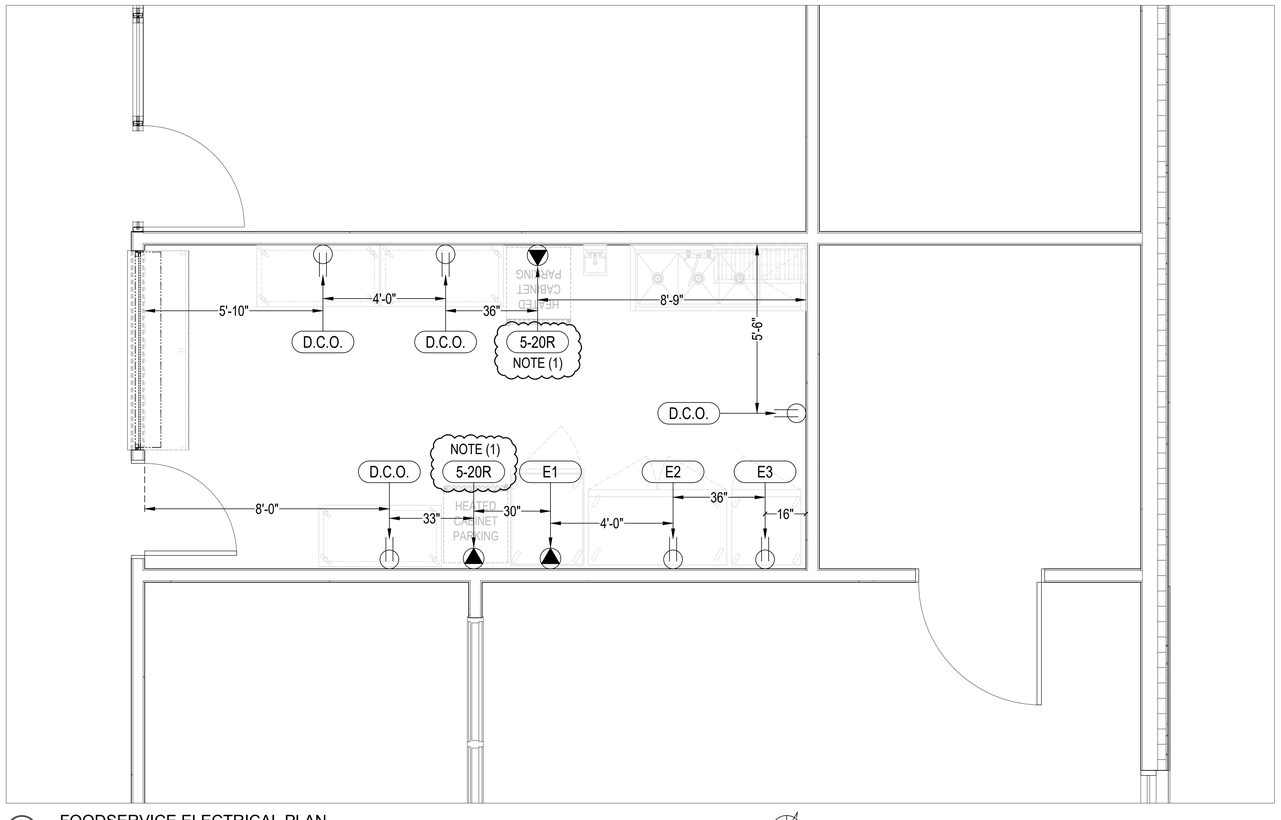


1 K100 FOODSERVICE FLOOR PLAN

1/2" = 1'-0"

EQUIPMENT SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Equipment Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	Hot Holding & Heating
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–
4	1	36" Slatted Wall Shelf	New Age Industrial	1121PR	Clean Wares; 15" Deep
5	1	(3)-Comp. Pot/Pan Sink	Advance Tabco	FC-3-1620-18R	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	"Space Saver" w/Side Splashes
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	Modify to 78" x 17"



2 K100 FOODSERVICE ELECTRICAL PLAN

1/2" = 1'-0"

ELECTRICAL SCHEDULE

Item No	Qty	Equipment Description	Manufacturer	Model Number	Amps	KW	HP	Volts	Phase	Cycle	Hardwire	Conn. Cord/Plug	NEMA Plug No.	Electrical A.F.F. (in)	Elec Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	33.4	12.0	–	208	3	60	–	X	6-50P	60	(E1)
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	5.4	–	1/2	120	1	60	–	X	5-15P	48	(E2)
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	3.7	–	1/2	115	1	60	–	X	5-15P	48	(E3)
4	1	36" Slatted Wall Shelf	New Age Industrial	1121PR	–	–	–	–	–	–	–	–	–	–	–
5	1	(3)-Comp. Pot/Pan Sink	Advance Tabco	FC-3-1620-18R	–	–	–	–	–	–	–	–	–	–	–
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	–	–	–	–	–	–	–	–	–	–
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–	–	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–	–	–	–	–	–	–

D.C.O. / = NEMA #5-15R DUPLEX CONVENIENCE OUTLET (120-V/1-Ø/60-HZ), LOCATED 48" A.F.F. UNLESS OTHERWISE NOTED

NOTE (1): DEDICATED 120-V/20A CIRCUITS WITH N.E.M.A. 5-20R RECEPTACLES AT 48" A.F.F.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
■	ELECTRICAL CONNECTION (HARDWIRED)
●	SINGLE RECEPTACLE
⇉	DUPLEX RECEPTACLE
J	JUNCTION BOX
S_{WP}	LIGHT SWITCH
	LIGHT
	DISCONNECT BOX

WILLARD DESIGN GROUP
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STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

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DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

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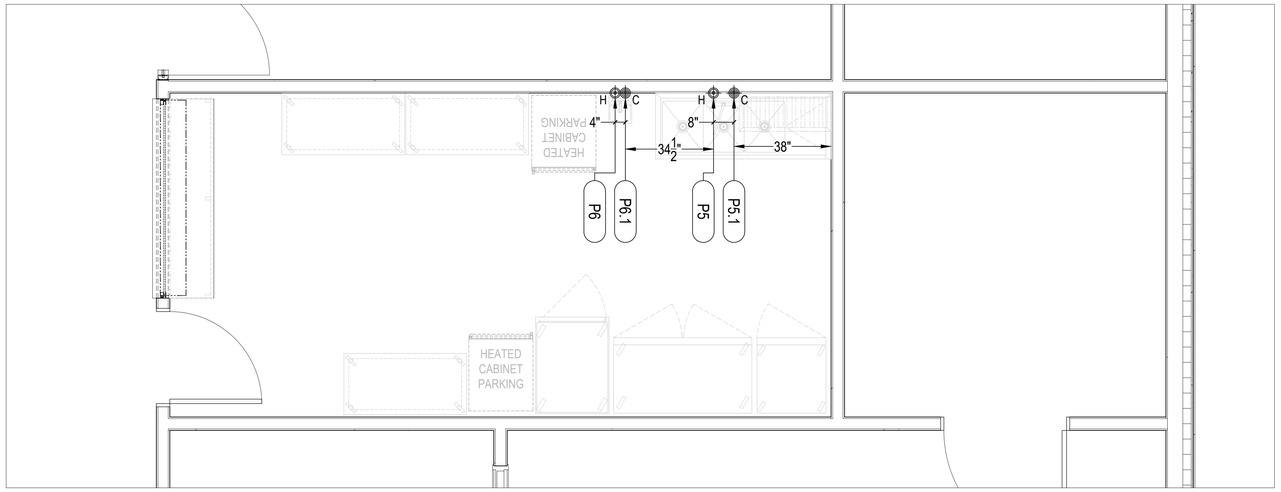
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WDG Project No: 2024002

SHEET NAME

FOODSERVICE FLOOR PLAN & ELECTRICAL PLAN

SHEET NO. K100



1 K101 FOODSERVICE PLUMBING PLAN

1/2" = 1'-0"

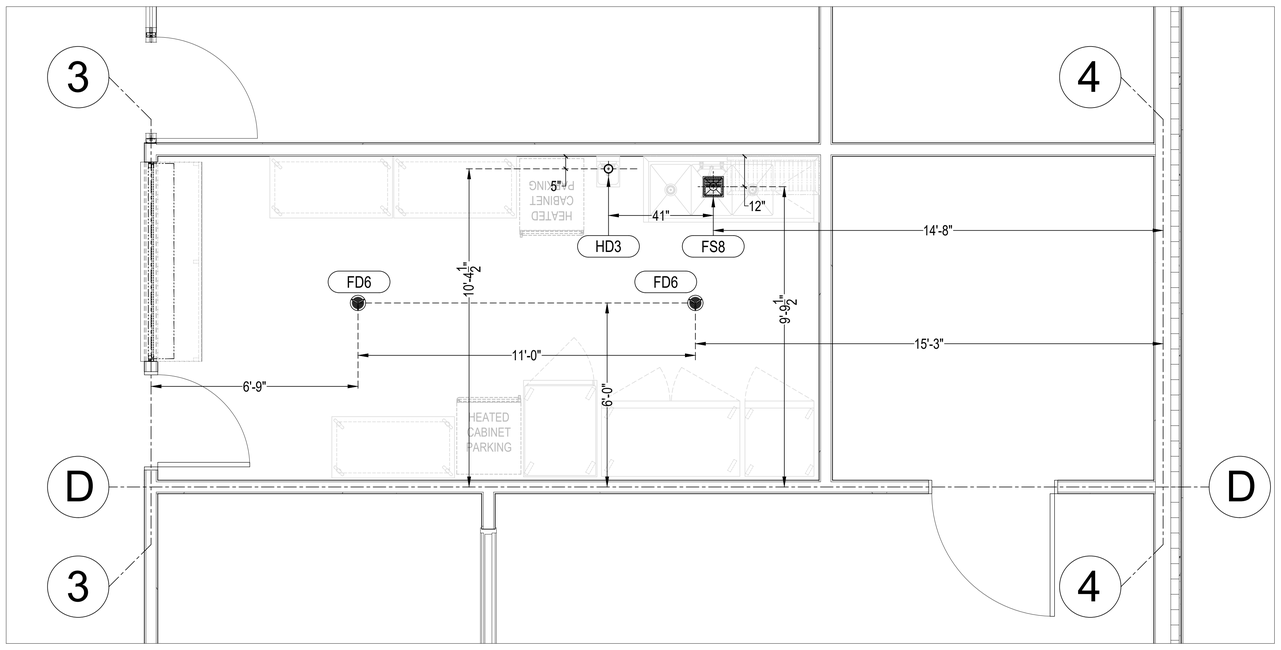
PLUMBING SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Cold Water Size (in)	Cold Water AFF (in)	Hot Water Size (in)	Hot Water AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–	–
4	1	36" Slatted Wall Shelf	New Age Industrial	1121PR	–	–	–	–	–
5	1	(3)-Comp. Pot/Pan Sink	Advance Tabco	FC-3-1620-18R	1/2	12	1/2	12	(P5) HOT, (P5.1) COLD
6	1	Wall Mount Hand Sink	Krowne	HS-19	1/2	12	1/2	12	(P6) HOT, (P6.1) COLD
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–	–

NOTE: ALL CONNECTION POINTS TO BE SUPPLIED WITH RIGHT ANGLE STOPS AT HEIGHT ABOVE FINISHED FLOOR, PLUMBED TO RESPECTIVE FIXTURES UNLESS OTHERWISE NOTED

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



2 K101 FOODSERVICE DRAINAGE PLAN

1/2" = 1'-0"

DRAINAGE SCHEDULE

Item No	Qty	Equipment Category	Manufacturer	Model Number	Direct Drain Size (in)	Indir Drain Size (in)	Direct Drain AFF (in)	Plumbing Remarks
1	1	Oven, Retherm & Hold	Cres Cor	RO-151-FUA-18DE	–	–	–	–
2	1	Refrigerator, Reach-In	True Mfg.	T-49-HC	–	–	–	–
3	1	Freezer, Reach-In	True Mfg.	T-23F-HC	–	–	–	–
4	1	36" Slatted Wall Shelf	New Age Industrial	1121PR	–	–	–	–
5	1	(3)-Comp. Pot/Pan Sink	Advance Tabco	FC-3-1620-18R	–	1 1/2	–	(HD3)
6	1	Wall Mount Hand Sink	Krowne	HS-19	–	1 1/2	–	(FS8)
7	3	24" x 48" Mobile S/S Table	Advance Tabco	MS-244	–	–	–	–
8	1	Dish Cabinet	Advance Tabco	DC-187-MOD	–	–	–	–

HD3 = 3" OPEN SITE "HUB" DRAIN

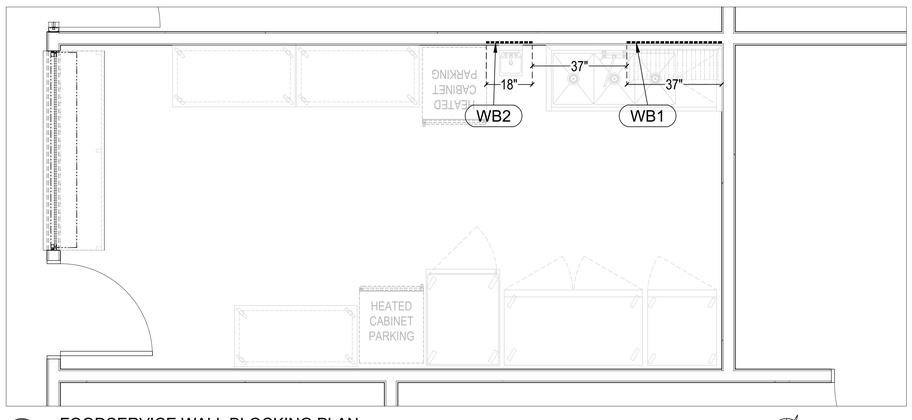
FS8 = 8" SQUARE FLOOR SINK WITH REMOVABLE BASKET & (1/2) GRATE TOP

FD6 = 6" FLOOR GRATE DRAIN (FOR GENERAL DRAINAGE AND CLEANUP)

NOTE: ALL DRAINS FROM FIXTURES EXCEPT WALL DRAINS FOR HAND SINKS AND DIRECT DRAINS ON FLOOR TROUGHS AND MOP SINK MARKED "INDIRECT" MUST BE AIR-GAPPED TO MEET HEALTH CODES.

PLUMBING & MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	HOT WATER
	COLD WATER
	HUB DRAIN
	DIRECT WASTE CONN.
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	FLOOR SINK



3 K101 FOODSERVICE WALL BLOCKING PLAN

1/2" = 1'-0"

WALL BLOCKING SCHEDULE

WB1 = WALL BLOCKING FROM 48" TO 72" A.F.F. FOR WALL SHELVING

WB2 = WALL BLOCKING FROM 30" TO 60" A.F.F. FOR HAND WASH SINK & ACCESSORIES

NOTE: ALL WALL BLOCKING TO BE MINIMUM 3/4" THICK PLYWOOD OR DIMENSIONAL LUMBER BETWEEN STUDS AND BEHIND DRYWALL BOARD

WILLARD DESIGN GROUP
4455 SAINT ROCH AVE. NEW ORLEANS, LA 70122

STEM NOLA
SPECIALIZED STEM MULTI-PURPOSE BUILDING

6800 PLAZA DRIVE, NEW ORLEANS,LA 70127

DESIGN DEVELOPMENT

DRAWING ISSUE

DATE	ISSUED FOR
09/02/2025	50% DD

REVISIONS

NOT FOR CONSTRUCTION

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WDG Project No: 2024002

SHEET NAME

FOODSERVICE PLUMBING, DRAINAGE & WALL BLOCKING PLAN

SHEET NO. K101