Town / Village of Harrison

HARRISON RECREATION & COMMUNITY CENTER

270 Harrison Avenue
Harrison, NY 10528

ISSUED FOR BID - JUNE 05, 2024
UPDATED PER 3 ADDENDA
LAST DATED - OCTOBER 09, 2024

KG+D Project No.
2020-1005

PHASE 2 - CONFORMED DRAWING SET

DRAWING LIST

GENERAL
G000 COVER
G001 GENERAL INFORMATION
G002 ACCESSIBILITY DIAGRAMS

CODE COMPLIANCE
CC001 CODE COMPLIANCE INFORMATION
CC002 CODE COMPLIANCE INFORMATION

SURVEY
V-001 TOPOGRAPHIC SURVEY 2023
V-002 AS BUILT FOUNDATION AND TOPOGRAPHY

CIVIL
C001 GENERAL NOTES
C100 EXISTING CONDITIONS & REMOVALS PLAN
C101 SITE LAYOUT PLAN
C102 SITE GRADING PLAN
C103 EROSION & SEDIMENT CONTROL PLAN
C104 SITE DETAILS
C105 WORK ZONE TRAFFIC CONTROL PLAN
C200 UTILITY PLAN
C400 CONSTRUCTION DETAILS
C401 CONSTRUCTION DETAILS
C402 CONSTRUCTION DETAILS
C403 CONSTRUCTION DETAILS

LANDSCAPE
L100 LANDSCAPE PLAN & SITEWORK DETAILS

STRUCTURAL
S001 GENERAL STRUCTURAL NOTES
S100 LOWER LEVEL SLAB-ON-GRADE PLAN
S101 FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN
S102 SECOND FLOOR & LOW ROOF FRAMING PLAN
S103 ROOF FRAMING PLAN
S201 SLAB ON GRADE DETAILS
S301 STEEL FRAMING SCHEDULES AND TYPICAL DETAILS
S302 TRUSS ELEVATION AND DETAILS
S303 STEEL COLUMN SCHEDULE AND DETAILS
S311 FRAMING SECTIONS
S312 FRAMING SECTIONS
S313 FRAMING SECTIONS
S314 FRAMING SECTIONS
S401 MASONRY SCHEDULE AND TYPICAL DETAILS
S402 MASONRY TYPICAL DETAILS
S501 COLD-FORMED FRAMING SCHEDULES AND TYPICAL DETAILS

ARCHITECTURAL
A101 ARCHITECTURAL SITE PLAN
A201 LOWER LEVEL PARKING PLAN
A202 1st FLOOR PLAN
A203 2nd FLOOR PLAN
A204 ROOF LEVEL PLAN
A301 EXTERIOR ELEVATIONS
A302 EXTERIOR ELEVATIONS
A303 BUILDING SECTIONS
A304 BUILDING SECTIONS
A401 ENLARGED PLANS & INTERIOR ELEVATIONS
A402 LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS
A403 GYMNASIUM INTERIOR ELEVATIONS
A404 GYMNASIUM INTERIOR ELEVATIONS
A405 1ST FLOOR INTERIOR ELEVATIONS
A406 2ND FLOOR ENLARGED PLANS & INTERIOR ELEVATIONS
A410 TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVS
A440 MILLWORK DETAILS
A441 MILLWORK DETAILS
A501 LOWER LEVEL FINISH PLAN
A502 1st FLOOR PLAN FINISH PLAN
A503 2nd FLOOR PLAN FINISH PLAN
A504 FINISH SCHEDULE
A510 ACCENT WALL TILE PATTERNS
A530 SIGNAGE TYPES AND SCHEDULE
A601 LOWER LEVEL REFLECTED CEILING PLAN
A602 1st FLOOR REFLECTED CEILING PLAN
A603 2nd FLOOR REFLECTED CEILING PLAN
A701 ELEV & STAIR PLANS & SECTIONS
A702 STAIR PLANS & SECTIONS
A703 STAIR PLANS & SECTIONS
A704 TYPICAL STAIR DETAILS @ STAIR A, B, & D
A705 TYPICAL STAIR "C" DETAILS & TRACK GUARDRAIL DETAILS
A801 WALL SECTIONS
A802 WALL SECTIONS
A803 WALL SECTIONS
A804 WALL SECTIONS
A805 CEILING DETAILS
A901 WALL TYPES & GENERAL NOTES
A902 FRAMING & PENETRATION DETAILS
A911 DOOR SCHEDULE & TYPICAL DOOR DETAILS
A912 DOOR & FRAME TYPES
A913 WINDOW TYPES
A921 EXTERIOR DETAILS
A922 EXTERIOR DETAILS
A930 1ST FLOOR PLAN DETAILS
A931 TYPICAL ROOF SECTIONS & DETAILS
A932 TYPICAL ROOF SECTIONS & DETAILS

FIRE PROTECTION
FP-001 FIRE PROTECTION SYMBOLS, ABBREVIATIONS & NOTES
FP-201 FIRE PROTECTION PARKING PLAN
FP-202 FIRE PROTECTION 1ST FLOOR PLAN
FP-203 FIRE PROTECTION 2ND FLOOR PLAN
FP-701 FIRE PROTECTION DETAILS 1 OF 3
FP-702 FIRE PROTECTION DETAILS 2 OF 3
FP-703 FIRE PROTECTION DETAILS 3 OF 3
FR-301 FIRE RADIO PARKING LEVEL PLAN
FR-302 FIRE RADIO FIRST FLOOR PLAN
FR-303 FIRE RADIO SECOND FLOOR PLAN
FR-304 FIRE RADIO ROOF PLAN

PLUMBING
P-001 PLUMBING SYMBOLS, ABBREVIATIONS & NOTES
P-200A PLUMBING PARKING FLOOR & FIRST FLOOR SLAB PLAN
P-201 PLUMBING PARKING FLOOR PLAN
P-202 PLUMBING FIRST FLOOR PLAN
P-203 PLUMBING SECOND FLOOR PLAN
P-204 PLUMBING ROOF PLAN
P-401 PLUMBING FIRST FLOOR ENLARGED PLANS
P-402 PLUMBING SECOND FLOOR ENLARGED PLANS
P-501 PLUMBING RISER DIAGRAMS 1 OF 2
P-502 PLUMBING RISER DIAGRAMS 2 OF 2
P-701 PLUMBING DETAILS
P-702 PLUMBING DETAILS

MECHANICAL
M-001 MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES
M-201 MECHANICAL PARKING FLOOR PLAN
M-202 MECHANICAL FIRST FLOOR PLAN
M-203 MECHANICAL SECOND FLOOR PLAN
M-204 MECHANICAL ROOF PLAN
M-301 MECHANICAL PARKING PIPING PLAN
M-302 MECHANICAL FIRST FLOOR PIPING PLAN
M-303 MECHANICAL SECOND FLOOR PIPING PLAN
M-304 MECHANICAL ROOF PIPING PLAN
M-401 MECHANICAL SITE PLAN
M-501 MECHANICAL SCHEMATICS
M-601 MECHANICAL EQUIPMENT NOTES & SCHEDULES
M-602 MECHANICAL EQUIPMENT NOTES & SCHEDULES
M-603 MECHANICAL EQUIPMENT NOTES & SCHEDULES
M-701 MECHANICAL DETAILS
M-702 MECHANICAL DETAILS
M-703 MECHANICAL DETAILS
M-704 MECHANICAL DETAILS

ELECTRICAL
E-001 ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS
E-010 ELECTRICAL SITE PLAN
E-011 ELECTRICAL SITE PLAN
E-201 ELECTRICAL PARKING REFLECTED CEILING PLAN
E-202 ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN
E-203 ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN
E-301 ELECTRICAL PARKING FLOOR PLAN
E-302 ELECTRICAL FIRST FLOOR PLAN
E-303 ELECTRICAL SECOND FLOOR PLAN
E-304 ELECTRICAL ROOF PLAN
E-401 FIRE ALARM PARKING FLOOR PLAN
E-402 FIRE ALARM FIRST FLOOR PLAN
E-403 FIRE ALARM SECOND FLOOR PLAN
E-404 FIRE ALARM ROOF PLAN
E-501 ELECTRICAL ONE-LINE DIAGRAM
E-502 FIRE ALARM & FIRE RADIO RISER DIAGRAM
E-601 ELECTRICAL SCHEDULES
E-602 ELECTRICAL SCHEDULES
E-701 ELECTRICAL DETAILS
E-702 ELECTRICAL DETAILS
E-703 ELECTRICAL DETAILS

TELECOMMUNICATION
TC-000 TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND
TC-100 TELECOMMUNICATION LOWER LEVEL DEVICE PLAN
TC-101 TELECOMMUNICATION 1ST FLOOR DEVICE PLAN
TC-102 TELECOMMUNICATION 2ND FLOOR DEVICE PLAN
TC-200 TELECOMMUNICATION RISER DIAGRAMS
TC-300
TC-700 TELECOMMUNICATION TYPICAL DETAILS -1
TC-701 TELECOMMUNICATION TYPICAL DETAILS -1

SECURITY
SE-000 COVER SHEET
SE-100 LOWER LEVEL SECURITY DEVICE PLAN
SE-101 1ST FLOOR SECURITY DEVICE PLAN
SE-102 2ND FLOOR SECURITY DEVICE PLAN
SE-300 INTRUSINO & ACCESS CONTROL CLOSET ELEVATION IDF-1
SE-301 CCTV CLOSET ELEVATION IDF-1
SE-500 SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1
SE-501 SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2
SE-701 BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM
SE-704 SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS
SE-705 SECURITY EQUIPMENT DETAIL 3 IDMA DEVICE TYPICALS
SE-705A SECURITY EQUIPMENT DETAIL 4 BURG DEVICE TYPICALS
SE-706 SECURITY EQUIPMENT DETAIL -5 CCTV TYPICALS

AUDIO & VISUAL
AV100 A/V/V SYSTEM NOTES & LEGEND
AVV101 AVV SYSTEM CONDUIT SYSTEM FLOOR PLANS
AVV102 AVT SYSTEM CONDUIT SYSTEM PLAN DETAILS
AVV103 AVV SYSTEM CONDUIT 1ST FLOOR RCP
AVV104 AVV SYSTEM CONDUIT 2ND FLOOR RCP
Grand total: 171

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COVER

G000

ABBREVIATIONS

&	AND
@	AT
x	BY
℄	CENTER LINE
⌀	DIAMETER
#	POUND / NUMBER
AC	AIR CONDITIONING
ACCENT	ACCENT PAINT COLOR
ACM	ASBESTOS CONTAINING MATERIAL
ACPL	ACOUSTIC PANEL
ACT	ACOUSTIC CEILING TILE
ADJ	ADJACENT / ADJUSTABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADMIN	ADMINISTRATION
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AHAP	AS HIGH AS POSSIBLE
AHU	AIR HANDLING UNIT
AL, ALUM	ALUMINUM
ALT	ALTERNATE
AMP	ACRYLIC MODIFIED POLYESTER
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AV	AUDIO VISUAL
BD	BOARD
BEPO	BROADCAST EPOXY
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BO	BOTTOM OF
BOT	BOTTOM
BTW, BET	BETWEEN
CA	CARD ACCESS
CAB	CABINET
CB	CEMENT BOARD
CFS	COLD FORMED STEEL
CI	CAST IRON
CHAMF	CHAMFER
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONTR	CONTRACTOR
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CR	CLASSROOM / CARD READER
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
DA	DEVICE ARRANGEMENT
DEMO	DEMOLISH / DEMOLITION
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EE	EACH END
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC/ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCLOSURE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EPO	EPOXY
EPS	EDGE OF POUR STOP
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EST	ESTIMATE
ETC	ETCETERA
ETR	EXISTING TO REMAIN
ETRE	EXISTING TO BE RELOCATED
EW	EACH WAY
EXP JT	EXPANSION JOINT
EXPO	EXPOSED
EXST, EX	EXISTING
EXT, EXTR	EXTERIOR
EX-H	EXISTING HARD CEILING
FA	FIRE ALARM
FAB	FABRIC
FD	FLOOR DRAIN
FDMPR	FIRE DAMPER
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FH	FULL HEIGHT
FHC	FIRE HOSE CABINET
FHVC	FIRE HOSE VALVE CABINET
FIN	FINISHED
FIX	FIXTURE
FL/FLR	FLOOR
FLUOR	FLUORESCENT
FL MTD	FLUSH MOUNTED
FOS	FACE OF STUD
FOC	FACE OF CONCRETE
FP	FIRE PROTECTION
FR	FIRE RATED
FRD	FRENCH DRAIN
FRITZ	FRITZ FLOOR (RTT) TILE
FRP	FIBER REINFORCED POLYMER
FRTD	FIRE RETARDANT
FT	FOOT / FEET
FTF	FACE TO FACE
FTG	FOOTING
FURR	FURRED / FURRING
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFB	GROUND FACE BLOCK
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GOG	GOGGLE
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	HEIGHT AFF
HB	HOSE BIB
HC	HOLLOW CORE
HDWD	HARDWOOD
HDWR	HARDWARE
HD	HEAD
HDR	HEADER
HM	HOLLOW METAL
HMFR	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH / INCHES
INCL	INCLUDE / INCLUSIVE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
JAN/JC	JANITOR'S CLOSET
JT	JOINT
KD	KNOCKDOWN
KIT	KITCHEN
KO	KNOCKOUT
KPL	KICK PLATE
L	LENGTH / LONG
LAB	LABORATORY
LAM	LAMINATE
LAMGL	LAMINATED GLASS
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LKR	LOCKER
LMF	LIGHT METAL FRAMING
LT	LIGHT
LTG	LIGHTING
LVR	LOUVER
LVT	LUXURY VINYL PLANK & TILE
LWC	LIGHT WEIGHT CONCRETE
MAINT	MAINTAIN/MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MBR	MEMBRANE
MCP	METAL COMPOSITE PANEL
MCB	METAL CORNER BEAD
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MATCH HEIGHT / MAGNETIC HOLD
MIN	MINIMUM
MISC	MISCELLANEOUS
MLWK	MILL WORK
MLDG	MOLDING
MO	MASONRY OPENING
MP	MOVABLE PARTITION
MS	METAL STUD
MSNRY	MASONRY
MTD	MOUNTED
MTG	MOUNTING
MTL, MET	METAL
MULL	MULLION
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFCI	OWNER FURNISH, CONTRACTOR INSTALL
OFF	OFFICE
OH	OPPOSITE HAND / OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP H	OPPOSITE HAND
OTS	OPEN TO STRUCTURE
OUT	OUTLET
OV	OVER
P, PTD	PAINTED
PBD	PARTICLE BOARD
PG	PAINT GRADE
PNL	PANEL
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLMB	PLUMBING
PLWD, PLYWD	PLYWOOD
PR	PAIR
PT	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
PTN	PARTITION
PTWD	PRESERVATIVE TREATED WOOD
QT	QUARRY TILE
QTB	QUARRY TILE BASE
QTY	QUANTITY
R	RISER
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFL	REFLECTED
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED / REINFORCING
REQ, REQD	REQUIRED
REV	REVISED / REVISION
RFI	REQUEST FOR INFORMATION
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RSF	RUBBER SPORTS FLOOR
RT	RUBBER TREAD / TILE
RTB	RUBBER TREAD BASE
RTN	RETURN
RTT	RESILIENT TERRAZZO TILE
RW	RESCUE WINDOW
S	SOUTH / SAFETY GLAZING / SEE SPEC
SC	SOLID CORE
SCH	SCHLUTER ALUMINUM COVE BASE
SCHED	SCHEDULE / SCHEDULED
SCONC	SEALED CONCRETE
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FEET
SFB	SPLIT FACE BLOCK
SH	SHELVING / SHELF / SHELVES
SHT	SHEET
SIM	SIMILAR
SL	SLATE
SPEC	SPECIFICATION
SPF	SPORTS FLOOR
SQFT	SQUARE FOOT
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
ST, STOR	STORAGE
ST STL	STAINLESS STEEL
STL	STEEL
STR, STRUCT	STRUCTURAL / STRUCTURE
SUSP, SP	SUSPENDED / SUSPENSION
T	TOP / TREAD / TILE
T&B	TOP & BOTTOM
T&G	TONGUE & GROOVE
TB	TACKBOARD
TBD	TO BE DETERMINED
TEMP	TEMPERED
TERR	TERRAZZO
TEL	TELEPHONE
TFF	TOP FINISHED FLOOR
THERMO	THERMOSTAT
THK	THICK
TMP GL	TEMPERED GLASS
TO	TOP OF
TOS	TOP OF STEEL
TOSS	TOP OF STRUCTURAL SLAB
TOES	TOP OF EXISTING SLAB
TRT	TERRAZZO RESILIENT TILE
TT	TERRAZZO TILE
TYP	TYPICAL
TURF	ARTIFICIAL TURF
UNFIN	UNFINISHED
UNO, UON	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
VAT	VINYL ASBESTOS TILE
VCT	VINYL COMPOSITE TILE
VEN	VENEER
VERT	VERTICAL
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VFY	VERIFY
VIF	VERIFY IN FIELD
VRB	VENTED RUBBER BASE
VRS	VINYL REDUCER STRIP
VSF	VINYL SHEET FLOORING
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/C	WHEEL CHAIR
W/O	WITHOUT
WB	WHITEBOARD
WBP	WHITEBOARD PAINT
WC	WATER CLOSET
WD	WOOD
WDP	WOOD PANEL
WD BLKG	WOOD BLOCKING
WD DR	WOOD DOOR
WF	WATER FOUNTAIN
WGL	WIRE GLASS
WOM	WALK-OFF MAT
WP	WATERPROOFING / WORK POINT
WR	WARDROBE
WT	WEIGHT
WW	WINDOW WALL
YCO	YARD CLEANOUT
YD	YARD
ZCC	ZINC COATED COPPER
ZCP	ZINC COMPOSITE PANEL

SYMBOLS LEGEND

- EXISTING WALL / ELEMENT TO REMAIN
- 1hr OR NON-RATED WALL
- 2hr RATED WALL
- EXISTING DOOR TO REMAIN (U.N.O)
- EXISTING DOOR &/OR FRAME TO BE DEMOLISHED
- 101 — NEW DOOR &/OR FRAME, SEE DOOR SCHEDULE
- BREAK IN A STRAIGHT ELEMENT
- BREAK IN A ROUND ELEMENT

ROOM NAME
101
150 SF
ROOM IDENTIFICATION (NAME, NUMBER, & AREA)

- 1A3 — WALL TAG
- 1A — OPENING TYPE (I.E. WINDOW, HM / ALUM ASSEMBLY, LOUVER, ETC), SEE WINDOW TYPES
- D1, 1 — KEYNOTE
- TB4 — SPECIALTY EQUIPMENT, CASEWORK, SIGNAGE OR MATERIAL TYPE
- EL 0' - 0" — DATUM / SPOT ELEVATION MARKER
- C/J — CONTROL JOINT

- ℄ — CENTERLINE
- A — COLUMN GRID
- 1 / A101 — EXTERIOR ELEVATION REFERENCE
- 1 / 1 x 1 / A101 — INTERIOR ELEVATION REFERENCE
- 1 / A101 — WALL OR BUILDING SECTION REFERENCE
- 1 / A101 — DETAIL REFERENCE
- N — NORTH ARROW
- REVISION MARKER

- 100 / 340 — OCCUPANT LOAD / MAX CAPACITY
- FEC — FEC - FIRE EXTINGUISHER CABINET
- 1 OCC — OCCUPANT LOAD IN ROOM
- EXIT SIGN
- 100' TO EXIT — MAX TRAVEL DISTANCE / COMMON PATH OF TRAVEL
- 12 — OCCUPANT LOAD ON PATH
- ADA ACCESSIBLE ENTRY / EXIT
- 2hr FIRE RATING
- 1hr FIRE RATING
- DIRECTION OF TRAVEL
- RW — RESCUE WINDOW. PROVIDE 24" MIN CLEAR WIDTH, 6 SF MIN CLEAR AREA

MATERIALS LEGEND

- CMU WALL
- CMU WALL
- GWB WALL
- MASONRY
- GYPSUM WALLBOARD (GWB) TYPE "X" UNO (SEE SPECS)
- PLYWOOD (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)
- WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)
- SEALANT w/ BACKER ROD
- WATERPROOFING / ROOFING MEMBRANE OR FLASHING (THICK SOLID LINE)
- AIR / VAPOR CONTROL LAYER (THICK DASHED LINE)
- RIGID INSULATION
- BATT INSULATION
- POROUS FILL
- SUITABLE COMPACTED BACKFILL
- UNDISTURBED SOIL
- CONCRETE OR CAST STONE
- GLASS SURFACE

GENERAL NOTES

THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT & BRING ATTENTION TO SPECIFIC REQUIREMENTS WITHIN THE GENERAL CONDITIONS OF THE CONTRACT AS INCLUDED IN THE PROJECT MANUAL / SPECIFICATIONS.

1. THE WORK SHALL CONFORM TO ALL APPLICABLE & CURRENTLY ADOPTED BUILDING CODES & OTHER GOVERNING CODES, ORDINANCES & REGULATIONS. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SHALL APPLY.

2. THE CONTRACTOR SHALL MAINTAIN A CURRENT & COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE TO BE MADE AVAILABLE FOR REFERENCE BY THE OWNER, ARCHITECT & OTHER OWNER CONSULTANTS.

3. THE WORK SHALL CONSIST OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS & EQUIPMENT NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF THE WORK, LEAVING ALL WORK READY FOR USE BY THE OWNER. EVEN IF ITEMS ARE MISSING FROM THE DRAWINGS OR SPECIFICATIONS, BUT ARE NORMALLY REQUIRED FOR PROPER OPERATION OR TO COMPLETE OTHERWISE INCOMPLETE CONSTRUCTION, THEY SHALL BE INCLUDED BY THE CONTRACTOR.

4. QUESTIONS REGARDING THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE REQUEST FOR INFORMATION PROCEDURE. IN THE EVENT OF INCONSISTENCIES BETWEEN PARTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL (1) PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR (2) COMPLY WITH THE MORE STRINGENT REQUIREMENTS, EITHER OR BOTH IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.

5. PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL EXAMINE EXISTING PROJECT CONDITIONS & SUBMIT PHOTO OR VIDEO DOCUMENTATION TO THE ARCHITECT & OWNER FOR RECORD. EXISTING CONDITIONS CRITICAL FOR THE EXECUTION OF THE WORK, SUCH AS FLOOR ELEVATIONS, PLAN DIMENSIONS, OVERALL BUILDING DIMENSIONS, TIE-IN POINTS, ETC SHALL BE CONFIRMED, WHERE FEASIBLE, BY THE CONTRACTOR IN ADVANCE OF STARTING THE WORK.

6. MEANS, METHODS & JOB-SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

7. THE CONTRACTOR SHALL BE PRESUMED TO HAVE EXAMINED THE PROJECT SITE TO CONSIDER FULLY ALL CONDITIONS THAT MAY HAVE BEARING ON THE WORK & TO HAVE ACCOUNTED FOR THESE CONDITIONS. THE CONTRACTOR IS DEEMED TO BE A QUALIFIED EXPERT IN THE REQUIREMENTS OF THE WORK. THE CONTRACTOR'S FAILURE TO FAMILIARIZE ITSELF WITH EXISTING CONDITIONS OR FAILURE TO SUBMIT REQUIRED DOCUMENTS IN A TIMELY MANNER SHALL NOT BE GROUNDS FOR EXTENSION OF TIME OR ADDITIONAL COMPENSATION.

8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE & PRECAUTION DURING CONSTRUCTION TO MINIMIZE DISTURBANCE OR DISRUPTION TO ADJACENT STRUCTURES, PROPERTY, OCCUPANTS, PUBLIC THOROUGHFARES, ETC. THE CONTRACTOR SHALL TAKE ALL REASONABLE CONTROL MEASURES & PRECAUTION TO MINIMIZE DUST, NOISE, ODOR, NUISANCE & THE LIKE TO THE PREMISES & OCCUPANTS. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE CONDITIONS TO REMAIN INCLUDING INTERIOR, EXTERIOR, TREES, SHRUBS, PAVING, FENCES, ETC.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, FITTING, OR PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY. ALL AREAS REQUIRING CUTTING, FITTING, OR PATCHING SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR UNLESS NOTED OTHERWISE. THE PROJECT SPECIFICATION MAY CONTAIN MORE DETAIL REGARDING CUTTING & PATCHING RESPONSIBILITIES.

10. MANY PORTIONS OF THE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC & INSTALLATION OF SUCH SYSTEMS OR COMPONENTS MAY REQUIRED DETAILED ATTENTION TO ROUTING & COORDINATION WITH OTHER SUCH SYSTEMS OR EXISTING COMPONENTS. MINOR ADJUSTMENT OF ROUTING TO ACCOMMODATE EXISTING CONDITIONS & OTHER SYSTEMS SHALL BE THE PRIMARY RESPONSIBILITY OF THE CONTRACTOR. MAJOR ADJUSTMENTS TO ROUTING OR RECONFIGURATION MUST BE REVIEWED WITH THE ARCHITECT.

11. THE CONTRACTOR SHALL PAY ATTENTION TO IMPLIED PLAN & SECTION SPATIAL RELATIONSHIPS & VERIFY ALL DATUMS, AXES & IMPLIED SYMMETRIES. ALL DIMENSIONS SHALL BE CHECKED FOR ACCURACY AS THE WORK PROGRESSES.

12. THE CONTRACT DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, & EXTENTS OF THE WORK & ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO SERVE AS 'SHOP' OR 'ERECTION' DRAWINGS.

13. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DIMENSIONS ON LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

14. WHERE DIMENSIONS ARE NOTED AS "CLEAR" THEY ARE CODE OR FUNCTIONAL REQUIREMENTS & MUST BE MAINTAINED FROM FINISHED FACES. SEEK CLARIFICATION OF THE INTENT FROM THE ARCHITECT WHEN IN DOUBT.

15. DETAILS SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.

16. VERIFY ALL ARCHITECTURAL DETAILS WITH STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL CONDITIONS BEFORE ORDERING OR INSTALLING ANY ITEM OF WORK.

17. WHERE LOCATIONS OF NEW DOORS OR WINDOWS ARE NOT DIMENSIONED, THEY SHALL BE CENTERED IN THE WALL OR PLACED AS INDICATED IN TYPICAL DETAILS FROM ADJACENT WALLS.

18. ALL CHANGES OF MATERIAL SHALL OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENING UNLESS NOTED OTHERWISE.

19. SUPPLEMENTAL BLOCKING & REINFORCING FOR WALL-MOUNTED OR WALL-SUPPORTED ITEMS, SUCH AS TOILET ACCESSORIES, SHELVING, CABINETRY, AV EQUIPMENT, ETC IS TYPICALLY NOT SPECIFICALLY DEPICTED ON THE DRAWINGS BUT IS REQUIRED IN THE SPEC. FURTHERMORE, THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.

20. ALL WORK SHALL BE FIRM, WELL & SECURELY ANCHORED, ERECTED & INSTALLED PLUMB, LEVEL, SQUARE, IN TRUE & PROPER ALIGNMENT & ADJUSTMENT WITHOUT WAVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT & WELL SCRIBED. FINISHED WORK SHALL NOT HAVE EXPOSED, UNSIGHTLY ANCHORS OR FASTENERS & SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION & SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, & WARPING DUE TO TEMPERATURE & HUMIDITY CONDITIONS. INSTALL ALL MATERIALS & EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

SHEET IDENTIFICATION LEGEND

A101-A

- DISCIPLINE DESIGNATOR
- SHEET TYPE DESIGNATOR
- SEQUENCE NUMBER
- BUILDING / BUILDING AREA DESIGNATOR (IF USED)

DISCIPLINE DESIGNATORS

G	GENERAL
CC	CODE COMPLIANCE
PH	PHASING
H	HAZARDOUS MATERIAL ABATEMENT
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL

SHEET TYPE DESIGNATOR

1	DEMOLITION
2	FLOOR PLANS
3	EXTERIOR ELEVATIONS & BUILDING SECTIONS
4	ENLARGED PLANS & INTERIOR ELEVATIONS
5	FINISHES
6	REFLECTED CEILING PLANS
7	VERTICAL CIRCULATION
8	WALL SECTIONS & DETAILS
9	TYPICAL SCHEDULES & DETAILS

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

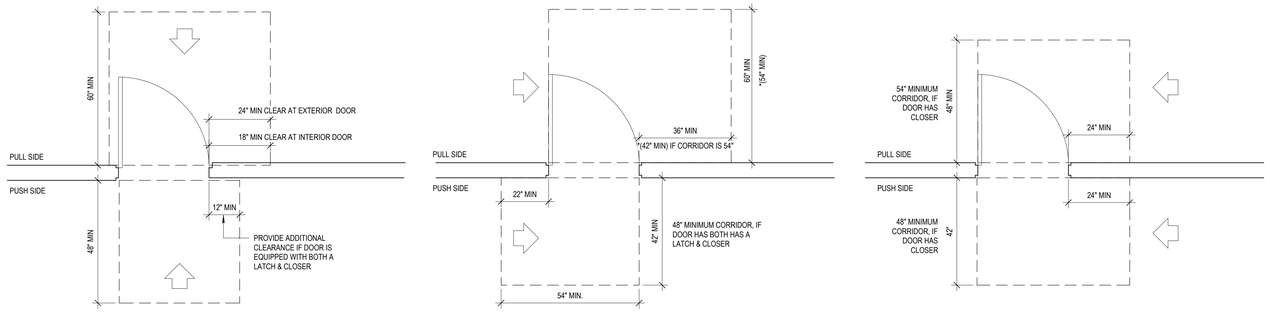
Sheet Title

GENERAL INFORMATION

Job No. 2020-1005	Date 01/17/18
Scale AS NOTED	Drawn / Checked - -

Sheet Number

G001



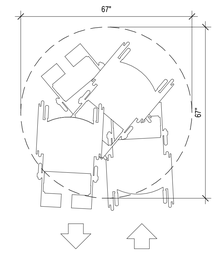
A. FRONT APPROACH

B. HINGE APPROACH

C. LATCH SIDE APPROACH

REF:
ADA: 404
ANSI: 404

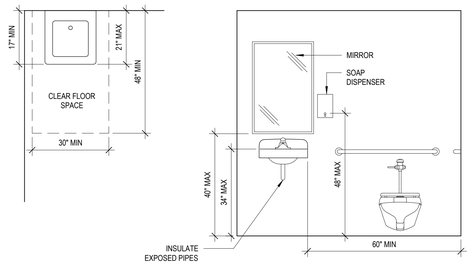
1 SWINGING DOOR APPROACH
1/2" = 1'-0"



SPACE NEEDED TO TURN A WHEELCHAIR

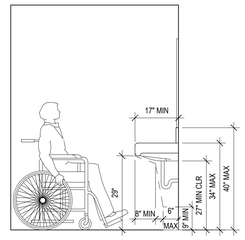
REF:
ADA: 304.3
IANSI: 304.3

2 WHEELCHAIR TURNING RADIUS
1/2" = 1'-0"



A. PLAN

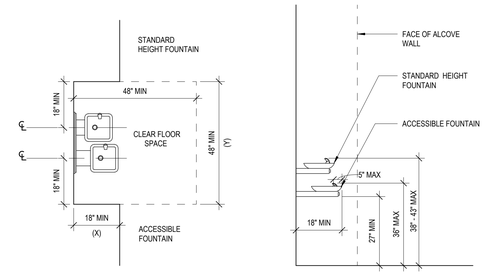
B. FRONT ELEVATION



C. SIDE ELEVATION

REF:
ADA: 603.3, 604.3.2, 606.1, 606.5
ANSI: 606.1

3 ACCESSIBLE LAVATORY
1/2" = 1'-0"

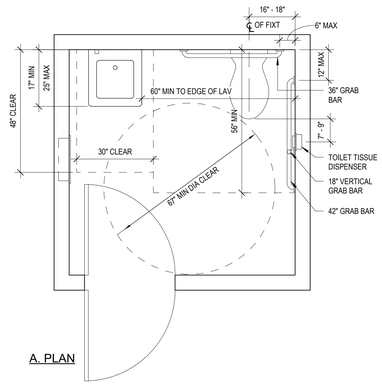


A. PLAN

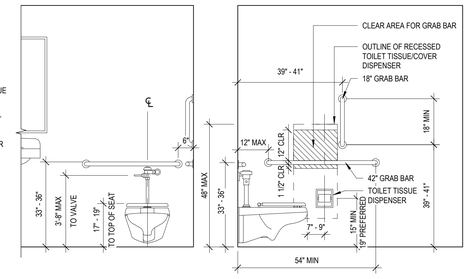
B. SIDE ELEVATION

THIS DETA

4 DRINKING FOUNTAIN HI - LOW
1/2" = 1'-0"



A. PLAN



B. FRONT ELEVATION

C. SIDE ELEVATION

REF:
ADA: 603.2, 604.2, 604.3.2, 604.7, 604.8, 609.1
ANSI: 604.4

5 SINGLE-ACCOMMODATION TOILET ROOM
1/2" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ACCESSIBILITY DIAGRAMS

Job No.	Date
2020-1005	01/17/18
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

G002

BCNYS CHAPTERS 3 - 6: OCCUPANCY CLASSIFICATION & USE; BUILDING HEIGHTS & AREAS; TYPES OF CONSTRUCTION

NEW BUILDING / ADDITION

USE & OCCUPANCY CLASSIFICATION(S):	ASSEMBLY GROUP A-3, A-4 LOW-HAZARD STORAGE GROUP S-2	
TYPE OF CONSTRUCTION:	IIB (NON-COMBUSTIBLE, UNPROTECTED)	
BUILDING HEIGHT & AREA: (A-3, IIB, SM)	PERMITTED	ACTUAL
HEIGHT*	75'	42'
STORIES	3	3
AREA PER FLOOR	32,585 SF**	30,240 SF (1st FL)

*HEIGHT ABOVE AVERAGE LOWEST FINISHED GRADE WITHIN 6' OF EXTERIOR WALLS OR WITHIN LOT LINE IF <6' AWAY FROM BUILDING.
**AREA MODIFICATIONS PER BCNYS SECTION 506:

EQUATION 5-2: Aa = [At + (NS x If)]
WHERE:
Aa = ALLOWABLE FLOOR AREA PER STORY
At = 28,500 SF (IIB, S)
NS = 9,500 (IIB, NS)
If = 0.43 (SEE EQUATION 5-5)

EQUATION 5-5: If = [F / P - 0.25] (W / 30)
WHERE:
If = AREA INCREASE DUE TO FRONTAGE
F = 505' (PERIMETER FRONTING PUBLIC WAY OR ≥20' OPEN)
P = 748' (PERIMETER OF ENTIRE BUILDING)
W = 30' (WIDTH OF PUBLIC WAY (30 FT MAX))

FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS	TYPE IIB
PRIMARY STRUCTURAL FRAME:	0 HRS
FLOORS:	0 HRS
ROOFS:	0 HRS
BEARING WALLS (EXT, INT):	0, 0 HRS
NON-BEARING WALLS (EXT, INT):	0, 0 HRS

BUILDING AREAS

YEAR	DESCRIPTION	TYPE	STORIES*	LEVEL	
2024	NEW CONSTRUCTION	IIB	3	LOWER LVL	9,500 SF
				1st FLOOR	30,240 SF
				2nd FLOOR	13,000 SF
				TOTAL	52,740 SF

*STORIES ABOVE GRADE PLANE - BASEMENT NOT INCLUDED IF NEXT FLOOR ABOVE IS <6' ABOVE GRADE PLANE OR <12' ABOVE FINISHED GROUND LEVEL AT ANY POINT PER BCNYS SECTION 202 DEFINITIONS

ECCCNYS COMMERCIAL ENERGY EFFICIENCY

COUNTY:	WESTCHESTER
CLIMATE ZONE:	4A
GLAZED AREAS *(≤ 40% OF ABOVE GRADE ENVELOPE)*:	20% C402.4.1
OPAQUE THERMAL ENVELOPE REQUIREMENTS:	TABLE C402.1.3-4
ROOF - INSULATION ENTIRELY ABOVE DECK	R-30ci
WALLS, ABOVE GRADE - MASS	R-9.5ci
WALLS, ABOVE GRADE - METAL FRAMED	R-13 + R-7.5ci
WALLS, BELOW GRADE - MASS	R-7.5ci
FLOORS - MASS	R-10ci
SLAB-ON-GRADE FLOORS - UNHEATED	R-10 FOR 24" BELOW
OPAQUE DOORS - SWINGING	U-0.61
VERTICAL FENESTRATION:	TABLE 402.4
FIXED FENESTRATION	U-0.38
OPERABLE FENESTRATION	U-0.45
ENTRANCE DOOR	U-0.77
SHGC - PF < 0.2	0.36
SKYLIGHTS:	TABLE 402.4
U-FACTOR	U-0.50
SHGC	0.40

BCNYS CHAPTER 7: FIRE & SMOKE PROTECTION FEATURES

ASSEMBLY	FIRE-RESISTANCE	LOCATION (BCNYS)
FIRE BARRIER: *(BCNYS TABLE 508.4, 509, 707.3.10) (BCNYS 713.2, 1023.2, 3002.1, 3005.4)*	2 HRS	TRANSFORMER ROOM INT EXIT STAIRWAY ≥4 STORIES ELEVATOR SHAFT ≥4 STORIES ELEV MACHINE ROOM ≥4 STORIES SHAFTS ≥4 STORIES
	1 HR	INT EXIT STAIRWAYS <4 STORIES ELEVATOR SHAFTS <4 STORIES ELEV MACHINE ROOM <4 STORIES SHAFTS <4 STORIES FIRE PUMP ROOM
HORIZONTAL SEPARATION: *(BCNYS TABLE 508.4, b)*	1 HRS	RATED FLOOR / CEILING ASSEMBLY

*** *SEE DRAWING CC002 FOR LOCATIONS OF FIRE-RESISTANCE-RATED CONSTRUCTION* ***

OPENING PROTECTIVES — **BCNYS SECTION 716.1(2)**

ASSEMBLY	WALL RATING	DOOR (MINS)	DOOR GLAZING	FRAME (MINS)	FRAME GLAZING
FIRE WALLS:	2 HRS	90	≤100 SQ IN D-H-90 >100 SQ IN D-H-W-90	120	W-120
FIRE BARRIERS: *EXIT STAIR*, SHAFTS & PASSAGES**	2 HRS	90	≤100 SQ IN D-H-90 >100 SQ IN D-H-T-W-90	120	W-120
	1 HR	60	≤100 SQ IN D-H-60 >100 SQ IN D-H-T-W-60	60	W-60
FIRE BARRIERS: *OTHER*	1 HR	45	D-H	45	D-H
FIRE PARTITIONS: *CORRIDORS (NO RATING REQUIRED IF SPRINKLERED)*	1 HR	20	D-20	45	D-H-45

*DOORS IN INTERIOR EXIT STAIRS, RAMPS & PASSAGES SHALL BE 450" TEMP RISE UNLESS SPRINKLERED

FIRE-RATED GLAZING ASSEMBLY MARKINGS — **BCNYS 716.1(1)**

TEST STANDARD	MARK	DEFINITION OF MARKING
ASTM E119 OR UL 263	W	MEETS WALL ASSEMBLY CRITERIA (PYROSTOP)
NFPA 252 OR UL 10B OR UL 10C	D	MEETS FIRE DOOR ASSEMBLY CRITERIA (FIRELITE PLUS)
	H	MEETS FIRE DOOR ASSEMBLY HOSE STREAM (FIRELITE PLUS)
	T	MEETS 450° TEMP RISE CRITERIA FOR 30 MINS (PYROSTOP)

BCNYS CHAPTER 9: FIRE PROTECTION & LIFE SAFETY SYSTEMS

SYSTEM	REQUIRED	PROVIDED
AUTO SPRINKLER SYSTEM *(BCNYS 903.2)*:	YES	YES
ALTERNATIVE AUTO FIRE-EXTINGUISHING SYSTEM:	NO	NO
STANDPIPE SYSTEMS:	NO	NO
PORTABLE FIRE EXTINGUISHERS:	YES	YES
FIRE ALARM & DETECTION SYSTEMS:	YES	YES
EMERGENCY ALARM SYSTEMS:	NO	NO
SMOKE CONTROL SYSTEMS:	YES	YES
SMOKE & HEAT VENTS:	NO	NO
FIRE COMMAND CENTER:	NO	NO
FIRE DEPARTMENT CONNECTIONS:	YES	YES

PLUMBING FIXTURE COUNT

PLUMBING FIXTURE COUNT — **PCNYS TABLE 403.1**

		WATER CLOSETS				LAVATORIES				DRINKING FOUNTAINS		SERVICE SINK
USE GROUP	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO	QTY	
ASSEMBLY (A)	1,745	1:125	882	1:65	882	1:200	882	1:200	882	1:500	1,763	1
		REQUIRED TOTALS	8		14		5		5		4	1
		PROVIDED	12		15		9		10		4	3

CALCULATIONS BASED ON FULL OCCUPANCY OF ALL ROOMS

OCCUPANCY = 1,763 (ASSUME 882 MEN, 882 WOMEN)

BCNYS CHAPTER 10: MEANS OF EGRESS

EGRESS INFORMATION	DWG SHOWN
ROOM USE DESIGNATIONS:	CC002, FLOOR PLANS
ROOM SQUARE FOOTAGE:	CC002, FLOOR PLANS
ROOM OCCUPANCY LOADS:	CC002
ASSEMBLY SPACE EXIT WIDTH CALCS:	CC001
AREA OF REFUGE:	CC002
RESCUE WINDOWS:	CC002, ELEVATIONS
EXIT SIGNS:	CC002, ELECTRICAL DWGS

EXIT TRAVEL DISTANCE	BCNYS TABLE 1017.2, 1020.4
UNSPRINKLERED:	200' MAX
SPRINKLERED:	250' MAX
DEAD-END CORRIDORS (UNSPRINKLERED):	20' MAX
DEAD-END CORRIDORS (SPRINKLERED):	50' MAX

OCCUPANCY LOAD	BCNYS SECTION 1004.5
CLASSROOMS:	20 NET SF / PERSON
SHOPS & OTHER VOCATIONAL ROOMS:	50 NET SF / PERSON
OFFICE AREAS:	100 GROSS SF / PERSON
KITCHEN AREAS:	200 GROSS SF / PERSON
STORAGE / MECHANICAL:	300 GROSS SF / PERSON

EXIT WIDTH	BCNYS SECTION 1005.1
STAIR WIDTH	
UNSPRINKLERED:	.3" / OCCUPANT
SPRINKLERED:	.2" / OCCUPANT
≥50 OCC LOAD:	44" MIN
<50 OCC LOAD:	36" MIN
ACCESSIBLE:	48" MIN BETWEEN HANDRAILS
OTHER EGRESS COMPONENTS	
UNSPRINKLERED:	.2" / OCCUPANT
SPRINKLERED:	.15" / OCCUPANT

CORRIDOR WIDTH	BCNYS TABLE 1020.2
≥50 OCC LOAD:	44" MIN
<50 OCC LOAD:	3'-0" MIN

ASSEMBLY EGRESS — **BCNYS SECTION 1029**

			REQUIRED			PROVIDED		
SPACE	AREA (SF)	OCC LOAD	No. OF EXITS	EGRESS WIDTH	TRAVEL DISTANCE	No. OF EXITS	EGRESS WIDTH	TRAVEL DISTANCE
LOWER LEVEL	9,500	29	2	5" (OCC *.15)	250' MAX	3	102"	42'
1st FLOOR (EXCL. GYM)	17,935	269	4	41" (OCC *.15)	250' MAX	4	272"	80'
2nd FLOOR	13,000	458	2	69" (OCC *.15)	250' MAX	3	188"	225' (TRACK)
GYMNASIUM (RM 113)	12,305	796 MAX OCC	3	120" (OCC *.15)	250' MAX 30' COMMON	4	340"	75' 18' COMMON

BCNYS CHAPTER 11: ACCESSIBILITY

ACCESSIBILITY INFORMATION:	DWG SHOWN
ACCESSIBLE ROUTE:	CC002
ACCESSIBLE ENTRANCES:	CC002
PARKING FACILITIES:	SITE PLAN & CC002
ASSEMBLY SEATING:	CC002
TOILET FACILITIES:	CC002
ACCESSIBLE FEATURES:	FLOOR PLANS, ELEVATIONS, DETAILS
VERTICAL ACCESS / ELEVATOR:	CC002
SIGNAGE:	SPECIFICATIONS, SIGNAGE SCHEDULE

BCNYS CHAPTER 16: STRUCTURAL DESIGN

HANDRAILS, GUARDS, GRAB BARS & SEATS SHALL MEET THE FOLLOWING LOAD CONDITIONS:

HANDRAILS & GUARDS:	50 PLF LINEAR LOAD 200 LB CONCENTRATED LOAD
INTERMEDIATE RAILS BALUSTERS & PANELS FILLERS:	50 LB CONCENTRATED LOAD
GRAB BARS & SEATS:	250 LB CONCENTRATED LOAD
VEHICLE BARRIERS:	6,000 LB CONCENTRATED LOAD

PROJECT INFORMATION

OWNER:	TOWN / VILLAGE OF HARRISON, NY ONE HEINEMAN PLACE HARRISON, NEW YORK 10528
BUILDING NAME / LOCATION:	HARRISON RECREATION & COMMUNITY CENTER 270 HARRISON AVENUE HARRISON, NEW YORK 10528
TYPE OF PROJECT:	NEW CONSTRUCTION - PHASE 2
PROJECT COMMENCEMENT:	WINTER 2023
PROJECTED COMPLETION:	SPRING 2025
APPLICABLE CODES:	2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE (BCNYS) 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)

LOCATION MAP

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CODE COMPLIANCE INFORMATION

Job No. 2020-1005	Date 03/31/2020
Scale AS NOTED	Drawn / Checked - -

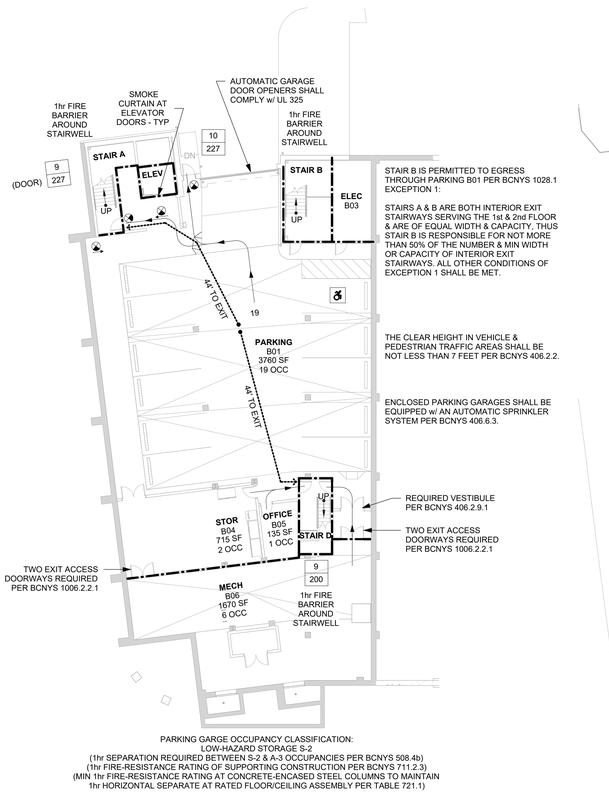
Sheet Number

CC001

OCCUPANCY TABLE - LOWER LEVEL						
ROOM NAME	ROOM #	AREA	OCCUPANCY USE	CODE FACTOR	OCCUPANT LOAD	COMMENTS
BUSINESS						
OFFICE	B05	135 SF	BUSINESS	100	1	
PARKING						
PARKING	B01	3759 SF	PARKING	200	19	
STORAGE						
STOR	B04	716 SF	STORAGE	300	2	
MECH	B06	1669 SF	STORAGE	300	6	
ELEC/PV ROOM	B08	66 SF	STORAGE	300	0	
Grand total: 5		6345 SF			28	

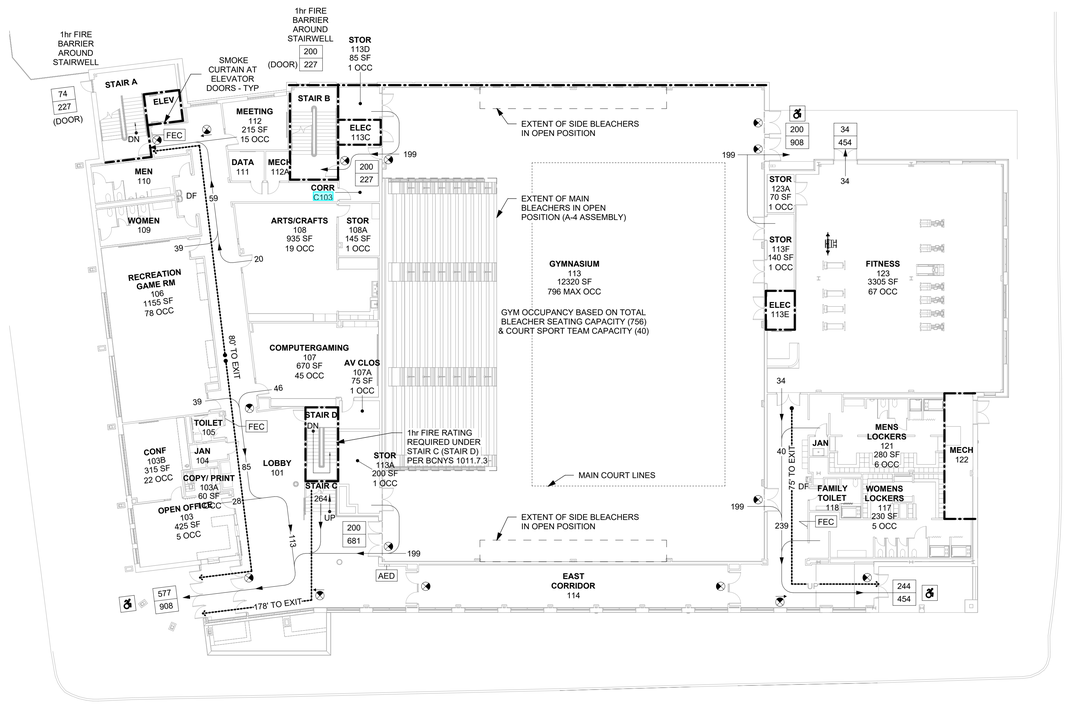
OCCUPANCY TABLE - 1st FLOOR						
ROOM NAME	ROOM #	AREA	OCCUPANCY USE	CODE FACTOR	OCCUPANT LOAD	COMMENTS
ASSEMBLY						
COPY/ PRINT	103A	60 SF	ASSEMBLY	100	1	
RECREATION GAME RM	106	1155 SF	ASSEMBLY	15	78	
COMPUTERGAMING	107	670 SF	ASSEMBLY	15	45	
ARTS/CRAFTS	108	935 SF	ASSEMBLY	50	19	
MEETING	112	215 SF	ASSEMBLY	15	15	
GYMNASIUM	113	12320 SF	ASSEMBLY	7	1761	POSTED MAX OCCUPANCY = 796
WOMENS LOCKERS	117	230 SF	ASSEMBLY	50	5	
MENS LOCKERS	121	280 SF	ASSEMBLY	50	6	
FITNESS	123	3305 SF	ASSEMBLY	50	67	
BUSINESS						
OPEN OFFICE	103	425 SF	BUSINESS	100	5	
CONF	103B	315 SF	BUSINESS	15	22	
STORAGE						
AV CLOS	107A	75 SF	STORAGE	300	1	
STOR	108A	145 SF	STORAGE	300	1	
STOR	113A	200 SF	STORAGE	300	1	
STOR	113D	85 SF	STORAGE	300	1	
STOR	113F	140 SF	STORAGE	300	1	
STOR	123A	70 SF	STORAGE	300	1	
Grand total: 17		20640 SF			269 (EXCL. GYM)	

OCCUPANCY TABLE - 2nd FLOOR					
ROOM NAME	ROOM #	AREA	OCCUPANCY USE	CODE FACTOR	OCCUPANT LOAD
ASSEMBLY					
VIEWING	200	993 SF	ASSEMBLY	5	199
TERRACE	200A	277 SF	ASSEMBLY	15	18
MULTI-PURPOSE	202	2015 SF	ASSEMBLY	15	134
MULTI-PURPOSE	203	1357 SF	ASSEMBLY	15	90
TRACK	213	3694 SF	ASSEMBLY	50	74
BUSINESS					
PANTRY	206	207 SF	BUSINESS	100	2
OPEN OFFICE	212	246 SF	BUSINESS	100	2
OFFICE	212A	151 SF	BUSINESS	100	2
CONF	212B	163 SF	BUSINESS	15	11
Grand total: 9		9102 SF			533



PARKING GARGE OCCUPANCY CLASSIFICATION:
LOW-HAZARD STORAGE S-2
(1hr SEPARATION REQUIRED BETWEEN S-2 & A-3 OCCUPANCIES PER BCNYS 508.4b)
(1hr FIRE-RESISTANCE RATING OF SUPPORTING CONSTRUCTION PER BCNYS 711.2.3)
(MIN 1hr FIRE-RESISTANCE RATING AT CONCRETE-ENCASED STEEL COLUMNS TO MAINTAIN 1hr HORIZONTAL SEPARATE AT RATED FLOOR/CEILING ASSEMBLY PER TABLE 721.1)

L CODE COMPLIANCE PLAN - LOWER LEVEL
1/16" = 1'-0"



1 CODE COMPLIANCE PLAN - 1st FLOOR
1/16" = 1'-0"

DOOR CAPACITY CALCULATIONS (GENERAL)

AT 36" WIDE SINGLE DOORS, 34" CLEAR EGRESS WIDTH SHALL BE PROVIDED
34" / 0.15" PER OCCUPANT = 227 OCCUPANT CAPACITY

AT 72" WIDE DOUBLE DOORS, 68" CLEAR EGRESS WIDTH SHALL BE PROVIDED
68" / 0.15" PER OCCUPANT = 454 OCCUPANT CAPACITY

DOOR CAPACITY CALCULATIONS (OVERALL)

LOWER LEVEL
REQUIRED: 29 OCCUPANTS X 0.15" PER OCCUPANT = 5"
PROVIDED: 102"

1st FLOOR (EXCL. GYM)
REQUIRED: 269 OCCUPANTS X 0.15" PER OCCUPANT = 41"
PROVIDED: 272"

2nd FLOOR
REQUIRED: 458 OCCUPANTS X 0.15" PER OCCUPANT = 69"
PROVIDED: 188"

DOOR CAPACITY CALCULATIONS (GYMNASIUM)

REQUIRED: 796 OCCUPANTS X 0.15" PER OCCUPANT = 120"
PROVIDED: 340"

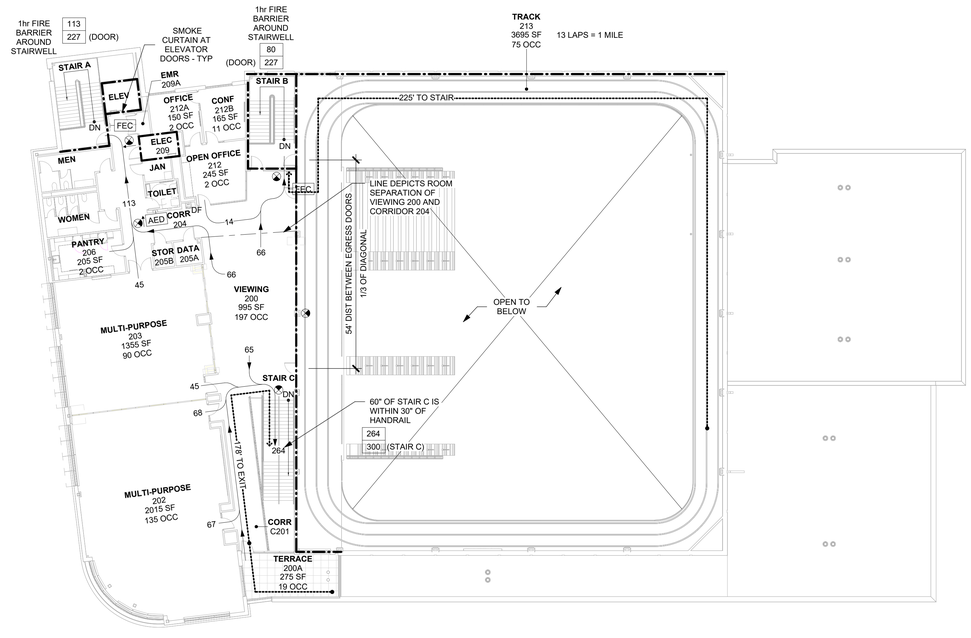
STAIR CAPACITY CALCULATIONS

STAIR A
PROVIDED: 64" (0.2" PER OCCUPANT = 320 OCCUPANT CAPACITY)

STAIR B
PROVIDED: 64" (0.2" PER OCCUPANT = 320 OCCUPANT CAPACITY)

STAIR C
PROVIDED: 60" (0.2" PER OCCUPANT = 300 OCCUPANT CAPACITY)

STAIR D
PROVIDED: 40" (0.2" PER OCCUPANT = 200 OCCUPANT CAPACITY)



2 CODE COMPLIANCE PLAN - 2nd FLOOR
1/16" = 1'-0"

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

LEGEND

- 2 HR FIRE BARRIER
- 1 HR FIRE PARTITION
- MEANS OF EGRESS PATHWAY
- RW RESCUE WINDOW
- FEC FIRE EXTINGUISHER CABINET
- AR AREA OF REFUGE
- X ACTUAL EGRESS OCCUPANCY LOAD
- Y MAXIMUM ALLOWABLE EGRESS OCCUPANCY LOAD
- ADA ACCESSIBLE EXIT

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CODE COMPLIANCE INFORMATION

Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

CC002

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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CONSTRUCTION DOCUMENTS

Vicinity Map

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Tree species shown hereon to be verified by a licensed arborist and are not certified by surveyor.

Elevations shown hereon generally in accordance with North American Vertical Datum 88.

LEGEND	
MH S D E T	MANHOLES
	DRAIN INLETS/CATCH BASINS
GV	GAS VALVE/GAS BOX
WV	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB

LEGEND	
——W——W——W——	WATER MAIN
——D——D——D——	DRAINAGE PIPE
——G——G——G——	GAS MAIN
——S——S——S——	SANITARY SEWER MAIN
——E——E——E——	ELECTRICAL LINE
——VER——VER——VER——	VERIZON LINE

Below ground utilities shown hereon as per delineation by others.
Paint marks set in street by others & drawings supplied by utility companies.
Additional utilities may exist. not shown.

TAX LOTS 31 AND 33
Premises hereon being Lots 582 and 583 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
Said map filed in the Westchester County Clerk's Office, Division of Land Records July 27, 1892 as map number 1034.
Premises hereon being Lot 584 as shown on a certain map entitled, "4th Map of Brentwood Plaza."
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Surveyed in accordance with Deed Control Number 572483257.

Premises shown hereon designated on the Town of Harrison Tax Maps as: Block 253, Lots 31 and 33.

Property Address: 260 Harrison Avenue
Harrison, NY 10528

TAX LOT 28
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TAX LOT 34
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Surveyed in accordance with Deed Control Number 532243364.

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Property Address: 8 Calvert Street
Harrison, NY 10528

TAX LOT 37
Premises hereon being Lots 575, 576, 577 and 578 as shown on a certain map entitled, "2nd Map of Brentwood Plaza."
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Property Address: 14 Calvert Street
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TOPOGRAPHY OF PROPERTY PREPARED FOR TOWN OF HARRISON

SITUATE IN THE
TOWN OF HARRISON
WESTCHESTER COUNTY, NEW YORK

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Project: 17-356	Reference: 10-216
Field Survey By: BC/CR	Drawn By: DA/BJC
Project Manager: BFC	Checked By: BFC/DM

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TC MERRITTS LAND SURVEYORS
394 BEDFORD ROAD • PLEASANTVILLE • NY 10570
(914) 769-8003 • survey@tcmerritts.com

STATE OF NEW YORK • DANIEL THOMAS MERRITTS • 050604 • LICENSED LAND SURVEYOR

Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
Map Revised: September 5, 2023 to show updated topography

By: Daniel T. Merritts
New York State Licensed Land Surveyor No.050604

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID

Sheet Title

TOPOGRAPHIC SURVEY 2023

Job No. 2020-1005	Date 09/05/2023
Scale AS NOTED	Drawn / Checked - / -

Sheet Number

V-001

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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AS BUILT FOUNDATION AND TOPOGRAPHY PREPARED FOR TOWN OF HARRISON

SITUATE IN THE
TOWN OF HARRISON
WESTCHESTER COUNTY, NEW YORK

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Project: 17-356	Reference: 10-216
Field Survey By: BC/CR	Drawn By: DA/BJC
Project Manager: BFC	Checked By: BFC/DM

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STATE OF NEW YORK · DANIEL THOMAS MERRITTS · 050604 · LICENSED LAND SURVEYOR

Surveyed: October 7, 2017
Map Prepared: October 17, 2017
Map Revised: February 18, 2019 to show structures and topography on Tax Lots 34 and 37.
Map Revised: September 5, 2023 to show updated topography
Map Revised: October 11, 2024 to show as built foundation and updated topogaphy

By: Daniel T. Merritts
New York State Licensed Land Surveyor No.050604

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Professional Seal

No.	Date	Issue

Sheet Title

AS BUILT FOUNDATION AND TOPOGRAPHY

Job No. 2020-1005	Date 09/05/2023
Scale AS NOTED	Drawn / Checked - / -

Sheet Number

V-002

GENERAL NOTES:

1. UNLESS OTHERWISE NOTED ALL ITEM NUMBERS FOR SPECIFIC WORK TASKS RELATE TO THE NEW YORK STATE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING AND GIVEN CONDITIONS, ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. ALL FIELD CONDITIONS AND DIMENSIONS SHALL BE NOTED ON THE AS-BUILT DRAWINGS SUBMITTED FOR APPROVAL.
3. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF CONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH FIELD CONDITIONS.
4. THE CONTRACTOR IS ADVISED THAT ADDITIONAL NOTES WILL BE FOUND ON SUBSEQUENT SHEETS OF THE PLANS AND SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWINGS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
5. IF THE ENGINEER NOTIFIES THE CONTRACTOR OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THE AFFECTED AREA SHALL BE DISCONTINUED AND IMMEDIATE ACTION SHALL BE TAKEN TO CORRECT THE SITUATION TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.
6. ALL EXISTING PAVEMENT AND SHOULDER SURFACES THAT ARE TO BE RESURFACED SHALL BE CLEANED IN ACCORDANCE WITH SECTION 633 (CONDITIONING OF EXISTING PAVEMENT) OF THE NYSDOT STANDARD SPECIFICATIONS.
7. ALL EXISTING TRAFFIC SIGNS REMOVED BY THE CONTRACTOR WITH A NYSDOT STICKER ON THE BACK OF THE PANEL SHALL BECOME THE PROPERTY OF THE NYSDOT. SIGNS WILL BE STORED AND LOCAL STATE RESIDENCY NOTIFIED FOR PICKUP. ALL OTHER EXISTING SIGNS SHALL BECOME THE PROPERTY OF TOWN OF MALTA.
8. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, AND REGULATIONS.
9. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING EDGE OF PAVEMENT ALONG ALL RIGHTS-OF-WAY.
10. SUBMITTALS, CATALOG CUTS, SAMPLES, AND SHOP DRAWINGS MUST BE RECEIVED, REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO ORDERING OR FABRICATION OF MATERIALS AND PRIOR TO INSTALLATION OF MATERIALS. FAILURE TO DO SO MAY RESULT IN TIME DELAYS. THE CONTRACTOR WILL NOT BE ENTITLED TO COMPENSATION FOR SAID TIME DELAYS, REMOVALS, OR REPLACEMENTS.
11. THE CONTRACTOR SHALL PROVIDE AN ACI CERTIFIED CONCRETE FLAT WORK FINISHER TO SUPERVISE ALL HAND FINISHING PER THE STANDARD SPECIFICATION. CERTIFICATION SHALL BE PROVIDED TO THE ENGINEER.

GRADING NOTES:

1. ALL GRADES SET IN THE FIELD TO BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
2. CONTRACTOR SHALL PROVIDE DUST AND EROSION AND SEDIMENTATION CONTROL AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER.
3. CONTRACTOR SHALL BLEND ALL NEW EARTHWORK INTO EXISTING GRADES AT LIMITS OF GRADING WORK. PROVIDE SMOOTH, ROUNDED TRANSITIONS AT ALL TOP AND BOTTOM OF SLOPES.
4. EXCAVATION REQUIRED WITHIN 3 FEET OF EXISTING UTILITY LINES SHALL BE DONE BY HAND; DO NOT EXCAVATE SOIL WITH MACHINERY. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS.
5. PRIOR TO PROJECT CLOSE-OUT, CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS FROM SITE. ALSO, ANY DAMAGE TO FIELD OR FACTORY APPLIED FINISHES SHALL BE REPAIRED.

ENVIRONMENTAL NOTES:

1. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM REDI-MIX TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. DESIGNATED WASH OUT AREAS TO BE APPROVED BY THE ENGINEER IN CHARGE.

UTILITY NOTES:

1. LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED ON THE PLANS AS EXISTING AND/OR TO BE CONSTRUCTED ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OR HER OPERATIONS, AND TAKE NECESSARY PRECAUTIONS SUCH THAT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION IS PREVENTED.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL "DIG SAFELY" (1-800-962-7962) TO HAVE UNDERGROUND UTILITIES LOCATED.

RIGHT OF WAY NOTES:

1. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS BEING PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS, DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIERS.
2. IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE SURVEYOR OF RECORD (SEE SURVEY NOTE 1) FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATIONS SECTIONS 105-10 AND 625).
3. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORY REPAIRED OR ITEMS PLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR UNDERTAKING SITE CONSTRUCTION OF THIS PROJECT MUST SIGN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CERTIFICATION AND BE FAMILIAR WITH ALL REQUIREMENTS OF THE SWPPP AND REQUIREMENTS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT NO. GP-0-20-001.
2. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH THE TERMS OF THE NYS DEC SPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITY, PERMIT NO. GP-0-20-001. A COPY OF THE GENERAL PERMIT IS LOCATED IN THE SWPPP.
3. A NOTICE OF INTENT (NOI) MUST BE SUBMITTED TO DEC IN ACCORDANCE WITH SPDES PERMIT NO. GP-0-20-001, A MINIMUM OF 5 DAYS PRIOR TO INITIATING WORK.
4. THE SWPPP INCLUDES INFORMATION BASED ON THESE PLANS AND THE STORM WATER MANAGEMENT REPORT.
5. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL HAVE THE ENGINEER CONDUCT AN ASSESSMENT OF THE SITE AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS HAVE BEEN ADEQUATELY INSTALLED. FOLLOWING COMMENCEMENT OF CONSTRUCTION, THE ENGINEER SHALL MAKE WEEKLY SITE INSPECTIONS AND SHALL PREPARE A REPORT AS REQUIRED BY THE GP-0-20-001.
6. THE CONTRACTOR SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOG BOOK, TO BE MAINTAINED ON SITE AND AVAILABLE TO THE PERMITTING AUTHORITIES UPON REQUEST.
7. AT THE END OF EACH CONSTRUCTION DAY THE CONTRACTOR SHALL STREET SWEEP ADJACENT PUBLIC ROADS, INTERIOR SITE DRIVES AND PARKING AREAS TO REMOVE ANY DEBRIS FROM THE PAVED SURFACE. CLEAN STORM WATER STRUCTURES OF SEDIMENT FOLLOWING FINAL PAVING.
8. AT COMPLETION OF CONSTRUCTION, THE SWPPP INSPECTOR AND THE MS4 (IF APPLICABLE) SHALL PERFORM A FINAL INSPECTION TO CERTIFY THAT THE SITE HAS UNDERGONE FINAL STABILIZATION AND THAT ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS HAVE BEEN REMOVED. UPON COMPLETION OF CONSTRUCTION THE SWPPP MONITORING PROFESSIONAL SHALL PERFORM THE FINAL INSPECTION WITH THE SITE CONTRACTOR AND CERTIFY THAT THE POST CONSTRUCTION STORMWATER PRACTICES HAVE BEEN INSTALLED PER THE SWPPP UPON CERTIFICATION OF COMPLETION A NOTICE OF TERMINATION (NOT) SHALL BE FILED WITH NYSDEC.
9. THE TOWN OF HARRISON IS RESPONSIBLE FOR POST CONSTRUCTION MAINTENANCE AND OPERATIONS.
10. CONTRACTOR SHALL UTILIZE TEMPORARY PROTECTION MEAURES LEFT ONSITE FROM THE PHASE 1 CONSTRUCTION (INCLUDING STABILIZED CONSTRUCTION ACCESS, TEMPORARY CONSTRUCTION FENCE, & INLET PROTECTION) AND SHALL MAINTAIN SAME FOR THE DURATION OF CONSTRUCTION.

SURVEY NOTES:

1. BASE MAPPING WITHIN ORCHARD STREET, HARRISON AVENUE, AND CALVERT STREET RIGHTS-OF-WAY PREPARED BY T.C. MERRITTS LAND SURVEYORS, 394 BEDFORD ROAD, PLEASANTVILLE, NY 10570, LAST REVISED SEPTEMBER 5, 2023.

ACCESS AND NOTIFICATION NOTES:

1. THE CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE ACCESS INTO OR THROUGH THE WORK SITE BY EMERGENCY VEHICLES AT ALL TIMES.
2. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE NYS SUPPLEMENT, AND EFFORTS SHALL BE COORDINATED WITH THE ENGINEER, AND/OR THE TOWN. TEMPORARY PAVEMENT SHALL BE PLACED WITHIN 48 HOURS OF COMPLETION OF EXCAVATION AND BACKFILL OPERATIONS WITHIN THE PAVEMENT LIMITS.
3. THE CONTRACTOR SHALL NOTIFY THE STATE AND/OR THE TOWN 72 HOURS PRIOR TO ANY STREET OR LANE CLOSURES OR ANY WORK AFFECTING TRAFFIC SIGNALS.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. RAMPING CONSTRUCTION TO PROVIDE ACCESS MAY BE CONSTRUCTED WITH SUBBASE MATERIAL EXCEPT THAT TEMPORARY ASPHALT CONCRETE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE PEDESTRIAN ACCESS AT ALL TIMES.

PROJECT SPECIFIC NOTES:

1. THE CONTRACTOR SHALL NOT BEGIN WARMING UP HIS OR HER EQUIPMENT BEFORE 7:30 AM, NOR KEEP THE EQUIPMENT RUNNING AFTER 8:00 PM. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.
2. THE CONTRACTOR SHALL SECURE A NYSDOT HIGHWAY WORK PERMIT (PERM 33). THE CONTRACTOR SHALL SECURE THE BONDS AND PAY ALL NYSDOT PERMIT FEES.
3. IN ADDITION TO THE CURING REQUIREMENTS OF THE NYSDOT STANDARD SPECIFICATIONS, CONCRETE SIDEWALKS PLACED AFTER OCTOBER 15TH SHALL BE CURED USING WET BURLAP AND A PLASTIC COVERING, FOLLOWED BY A PENETRATING SEALER PRIOR TO THE FIRST FREEZE. THE COST FOR THESE ITEMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE PROJECT.
4. IF IT IS DISCOVERED THAT THE MINIMUM CLEARANCES FROM PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRIC SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTILITY CODES CANNOT BE ACHIEVED, THE UTILITY COMPANY OWNING SUCH CONDUCTORS SHALL BE NOTIFIED IN WRITING OF THE PROBLEM. NO FURTHER WORK SHALL BE DONE UNTIL SAID POWER LINES HAVE BEEN RELOCATED TO PROVIDE THE PROPER CLEARANCES.
5. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE THAT SERVICE AT HIS OWN EXPENSE. HE SHALL NOT CEASE HIS WORK OPERATION UNTIL THAT SERVICE IS RESTORED.
6. CONSTRUCTION TRAFFIC ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.
7. TRAFFIC CONTROL MEASURES, INCLUDING TRAVEL LANE AND SIDEWALK CLOSURES, SHALL BE INSTALLED PRIOR TO WORK ACTIVITY IN OR CLOSE TO THE PUBLIC RIGHT OF WAY, AND REMOVED AFTER WORK ACTIVITY HAS CEASED. LOCATION AND DURATION OF PERIODIC LANE CLOSURES SHALL BE DETERMINED BY THE CONTRACTOR IN COORDINATION WITH TOWN AUTHORITIES TO ACCOMODATE ACCESS TO AND SAFETY AROUND WORK AREAS.
8. REFER TO DWG C105 FOR TYPICAL WORK ZONE TRAFFIC CONTROL MEASURES.
9. COORDINATE ON-SITE ACTIVITIES TO AVOID CONSTRUCTION TRAFFIC IN THE PARKING LOT OVER THE COMPLETED R-TANK STORMWATER DETENTION SYSTEM. NO LOADS HEAVIER THAN A STANDARD AASHTO HS-20 LOAD SHALL BE ALLOWED OVER THE SYSTEM AT ANY TIME.
10. PAVING OF PARKING LOT ASPHALT TOP COURSE SHALL USE MAXIMUM 6 TON SMOOTH DRUM ROLLER IN STATIC MODE.

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3	12/04/2024	ISSUE FOR CONSTRUCTION - PHASE 2
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

GENERAL NOTES

Job No.	Date
2020-1005	01/24/2024
Scale: AS NOTED	Drawn / Checked: TG/GB

Sheet Number

C001

REMOVALS NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED AND DISPOSED OF MUST BE DONE SO IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
2. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL UNLESS OTHERWISE NOTED.
3. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.
4. EXISTING CURB TO BE REPLACED SHALL BE COMPLETELY REMOVED.
5. LIMIT OF WORK LINE IS COINCIDENT WITH THE LIMIT OF WORK (LW) LINE SHOWN. CONSTRUCTION FENCE SHALL BE RESTORED TO THE PERIMETER SHOWN AT THE END OF EVERY WORK DAY.

SIGN SCHEDULE		
A	NO PARKING ANY TIME ⟷	SIGN TO BE REMOVED
B	Calvert St	SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11 / C-104)
C	HARRISON TOWN HALL & COURT ◀	SIGN TO REMAIN
D	NO STOPPING BUS STOP ⟷	SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11 / C-104)
E F	NO STOPPING BUS STOP ← / RESERVED PARKING ♿ →	SIGNS TO REMAIN
G H	SNOW EMERGENCY ROUTE NO PARKING DURING EMERGENCIES / 2 HR PARKING 7:00 AM TO 7:00 PM	SIGNS TO REMAIN
I	NO PARKING HERE TO CORNER →	SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11 / C-104)
J	STOP	SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11 / C-104)
K	NO PARKING ANY TIME ⟷	SIGN TO BE TEMPORARILY REMOVED AND REMOUNTED (11 / C-104)
L M	RECREATION CENTER DROP OFF / NO PARKING X:XX TO X:XX	NEW SIGNS TO BE ADDED (1 POST) TIMES AS SPECIFIED BY OWNER
SEE DWG L100 FOR NEW SIGNS IN PARKING LOT SEE DWG C101 FOR NEW SIGNS		

NOTE: THE EXISTING CONDITIONS SHOWN ON THIS PLAN REPRESENT CONDITIONS EXPECTED AT THE END OF PHASE 1 CONSTRUCTION. THIS INFORMATION SHALL BE SUPERSEDED BY AN AS-BUILT SURVEY NOT AVAILABLE AT THE TIME OF BIDDING BUT TO BE PROVIDED BY THE OWNER PRIOR TO BEGINNING OF PHASE 2 CONSTRUCTION.

1 inch = 20 feet

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No.	Date	Issue
4	01/20/2025	REVISED PER DOT COMMENTS
3	12/04/2024	ISSUE FOR CONSTRUCTION - PHASE 2
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

EXISTING CONDITIONS & REMOVALS PLAN

Job No. 2020-1005	Date 01/24/2024
Scale AS NOTED	Drawn / Checked TG/GB

Sheet Number

C100

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5	01/20/2025	REVISED PER DOT COMMENTS
4	12/04/2024	ISSUE FOR CONSTRUCTION - PHASE 2
3	06/05/2024	ISSUE FOR BID - PHASE 2
2	02/16/2024	PHASE 2 PERMIT ADDENDUM 1
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

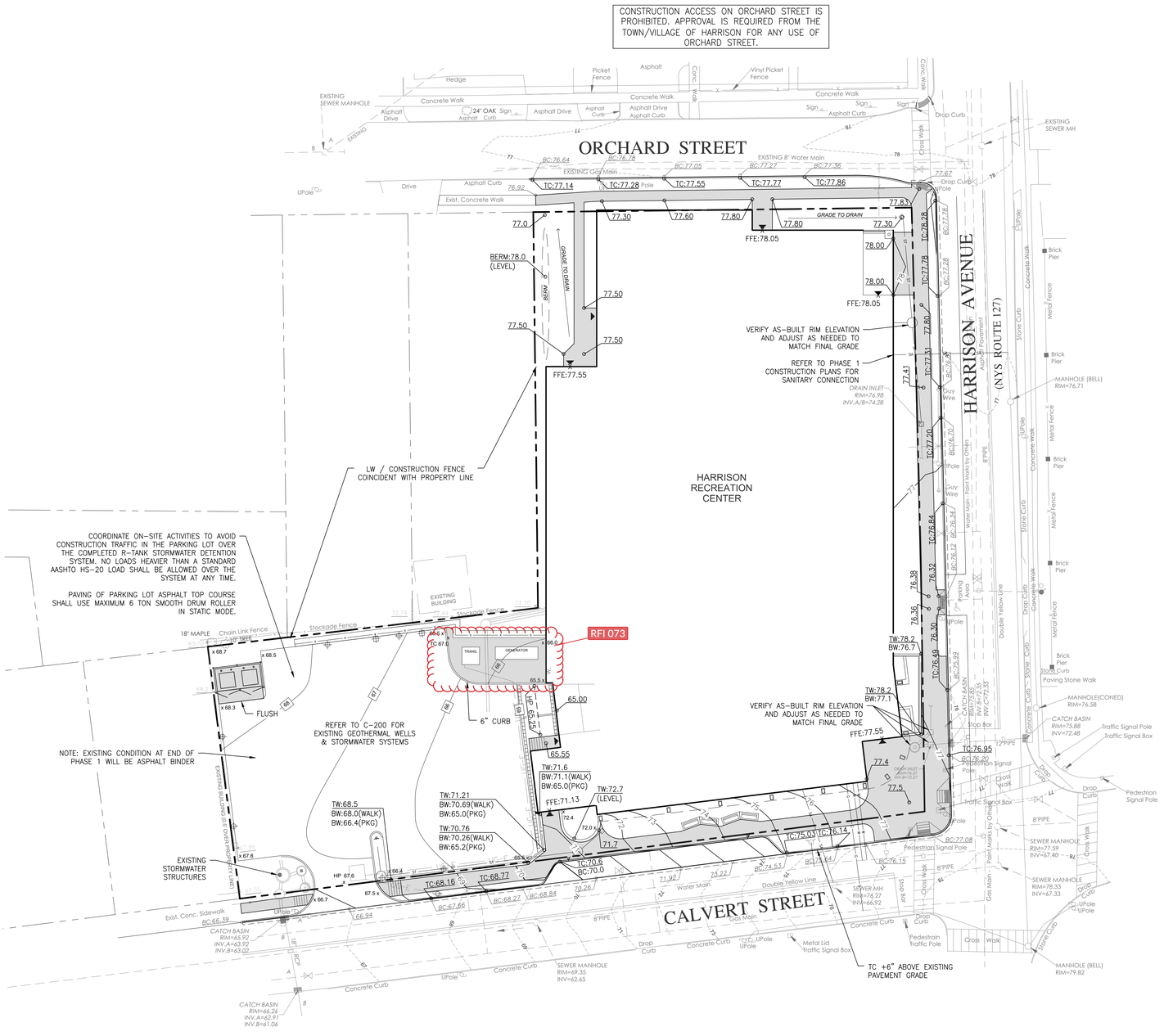
RFI 058

SITE LAYOUT PLAN

Job No.	Date
2020-1005	01/24/2024
Scale	**Drawn / Checked**
AS NOTED	TG/GB

Sheet Number

C101



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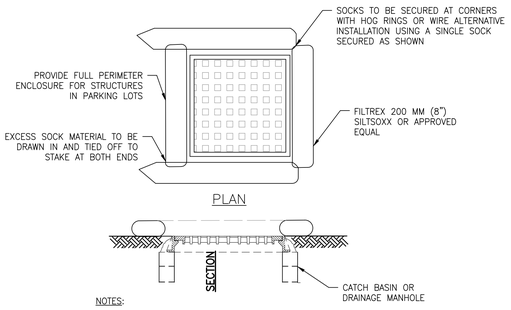
Sheet Title

SITE GRADING PLAN

Job No.	Date
2020-1005	01/24/2024
Scale	Drawn / Checked
AS NOTED	TG/GB

Sheet Number

C102



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
2. SECURE FILTERSOCK TO GROUND AT BOTH ENDS.
3. INLET PROTECTION SHALL REMAIN IN–PLACE UNTIL SITE HAS BEEN STABILIZED.
4. ALL TEMPORARY SEDIMENT CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR AT LEAST EVERY SEVEN CALENDAR DAYS AND AFTER EACH RUNOFF EVENT TO DETERMINE IF THE PRACTICE IS FUNCTIONING AS INTENDED. FILTERS SHALL BE CLEANED AS NECESSARY TO ACHIEVE PROPER FUNCTION.

1 TEMPORARY INLET FILTER

SCALE: NTS

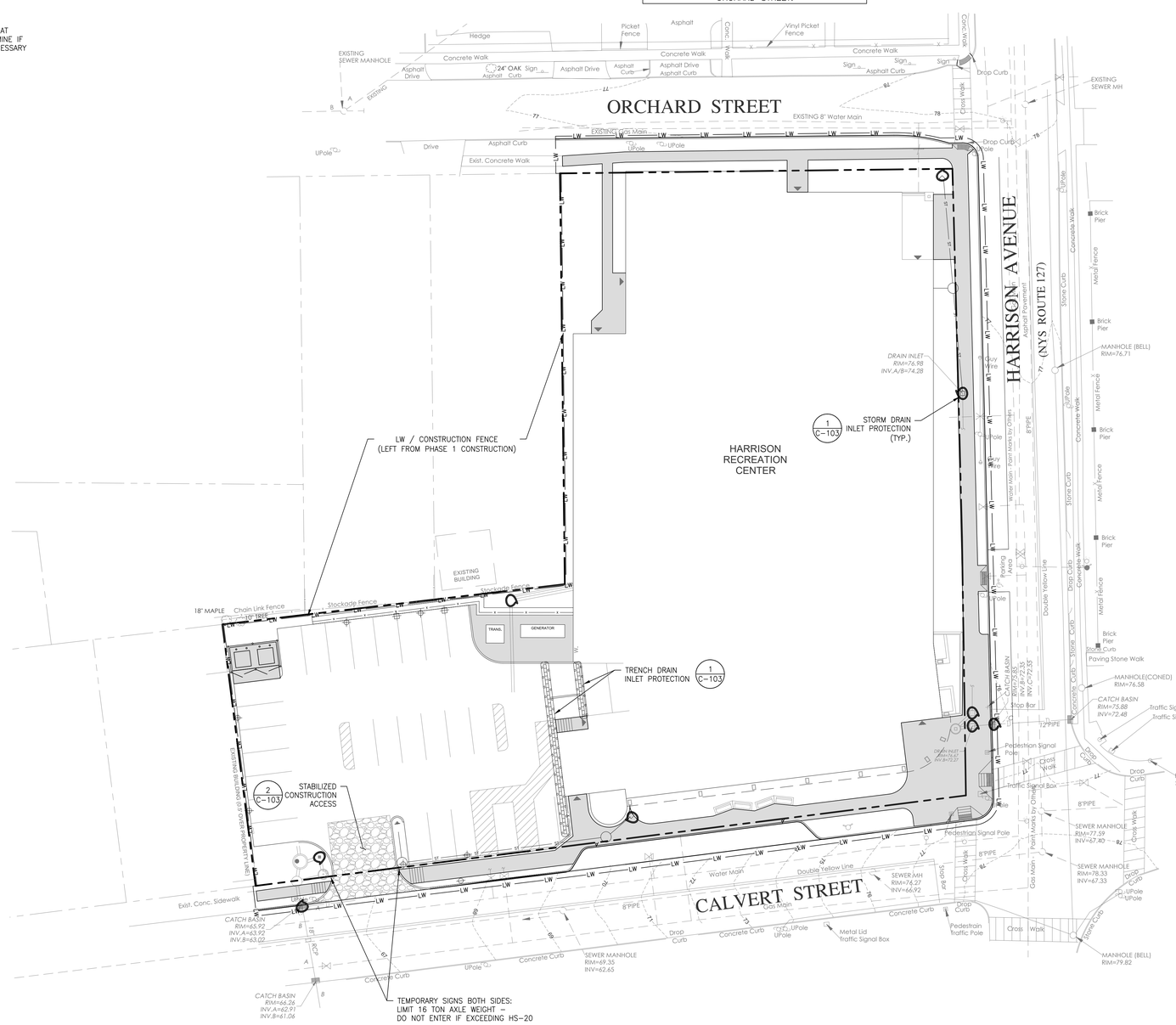
NOTES:

1. STONE SIZE – USE MIXTURE OF #2 & #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN FIFTY (30) FEET.
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWENTY–FOUR (24) FEET.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED ACROSS THE ACCESS IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ACCESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
10. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL REMOVE MATERIALS AND RESTORE ENTRANCE AREA, ESTABLISHING VEGETATIVE COVER AS PER PLANS.

2 STABILIZED CONSTRUCTION ACCESS

SCALE: NTS

CONSTRUCTION ACCESS ON ORCHARD STREET IS PROHIBITED. APPROVAL IS REQUIRED FROM THE TOWN/VILLAGE OF HARRISON FOR ANY USE OF ORCHARD STREET.



THIS PLAN IS FOR SEDIMENT AND EROSION CONTROL PLAN PURPOSES ONLY.

20 0 10 20

1 inch = 20 feet

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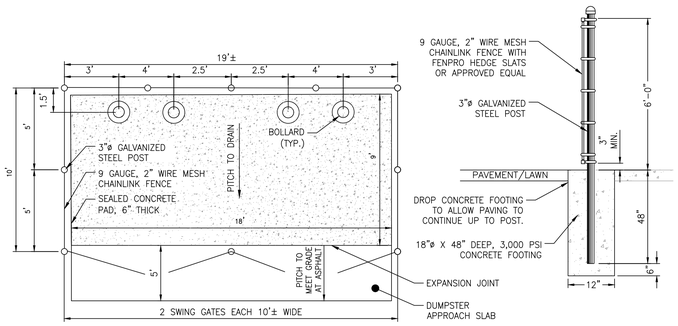
Sheet Title

EROSION & SEDIMENT CONTROL PLAN

Job No.	Date
2020-1005	01/24/2024
Scale: AS NOTED	Drawn / Checked: TG/GB

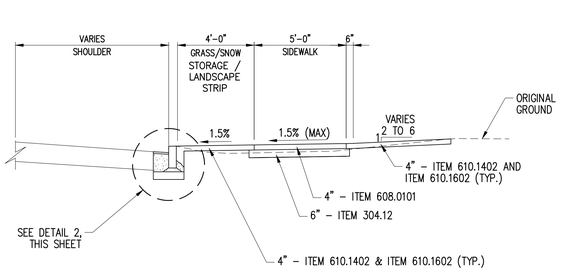
Sheet Number

C103



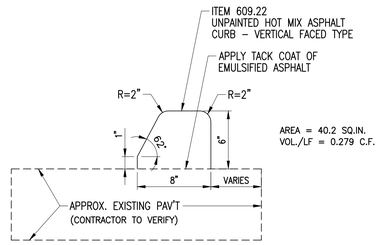
9 DUMPSTER ENCLOSURE AND GATE DETAIL

SCALE: NTS



5 TYPICAL SECTION - HARRISON AVENUE

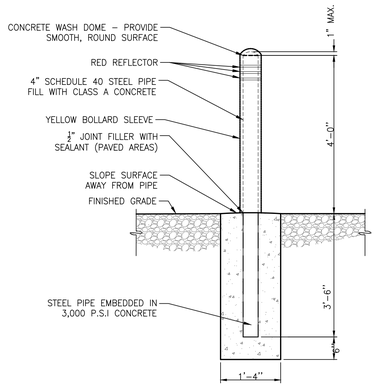
SCALE: NTS



1 HMA CURB DETAIL

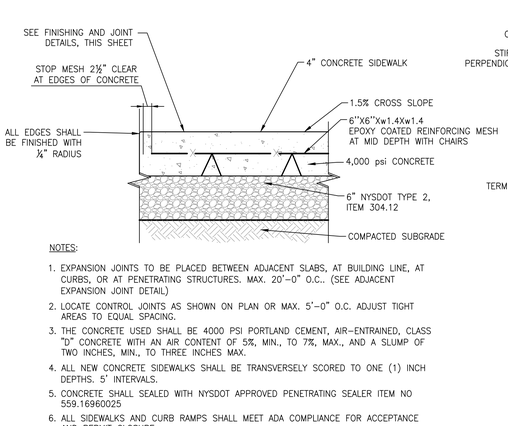
ORCHARD STREET

SCALE: NTS



10 BOLLARD DETAIL

SCALE: NTS

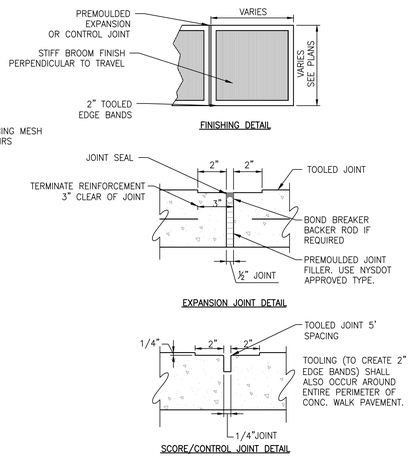


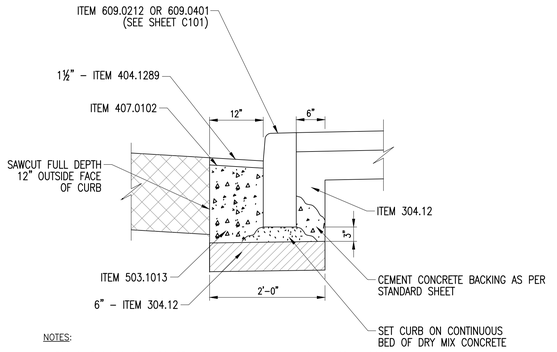
NOTES:

1. EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES. MAX. 20'–0" O.C.. (SEE ADJACENT EXPANSION JOINT DETAIL)
2. LOCATE CONTROL JOINTS AS SHOWN ON PLAN OR MAX. 5'–0" O.C. ADJUST TIGHT AREAS TO EQUAL SPACING.
3. THE CONCRETE USED SHALL BE 4000 PSI PORTLAND CEMENT, AIR–ENTRAINED, CLASS "D" CONCRETE WITH AN AIR CONTENT OF 5%, MIN., TO 7%, MAX., AND A SLUMP OF TWO INCHES, MIN., TO THREE INCHES MAX.
4. ALL NEW CONCRETE SIDEWALKS SHALL BE TRANSVERSELY SCORED TO ONE (1) INCH DEPTHS. 5' INTERVALS.
5. CONCRETE SHALL SEALED WITH NYSDOT APPROVED PENETRATING SEALER ITEM NO 559.16960025
6. ALL SIDEWALKS AND CURB RAMPS SHALL MEET ADA COMPLIANCE FOR ACCEPTANCE AND PERMIT CLOSURE.

6 CONCRETE SIDEWALK DETAIL

SCALE: NTS





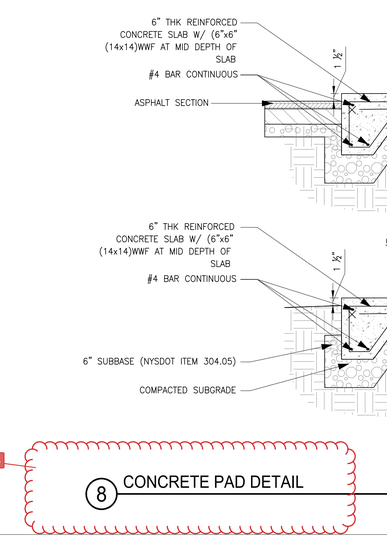
NOTES:

1. FOR DIMENSIONS OF CURB ITEM 609.0212 AND ITEM 609.0401 SEE NYSDOT STANDARD SHEET 609–1, LATEST REVISION.

2 CURB DETAIL

HARRISON AVENUE & CALVERT STREET

SCALE: NTS



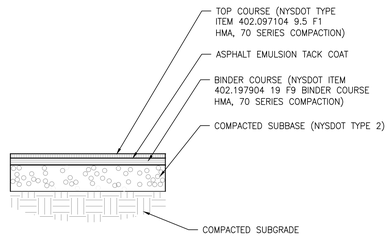
11 SIGN MOUNTING DETAIL

SCALE: NTS

PAVEMENT TABLE			
LOCATION	TOP	BINDER	SUBBASE
PARKING	1 1/2"	2 1/2"	8"

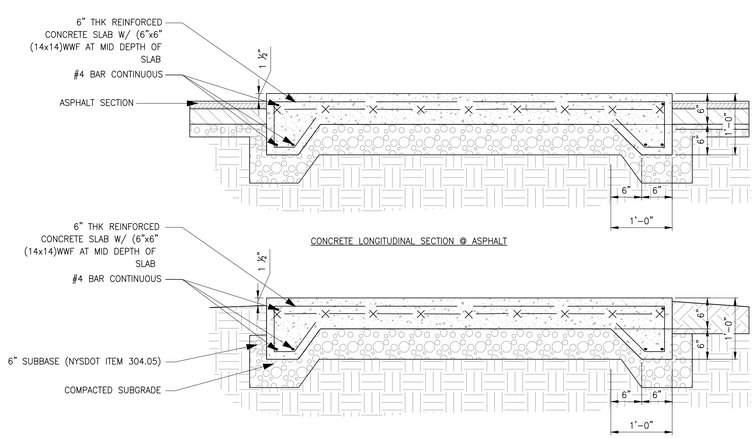
NOTES:

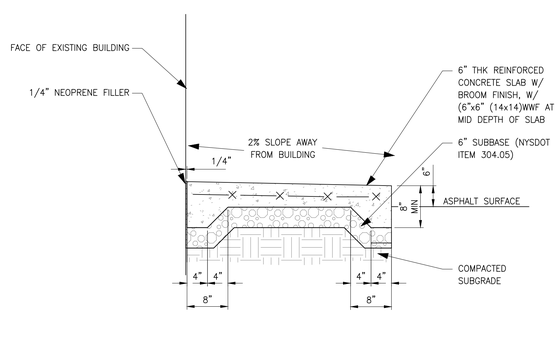
1. THE SUBBASE SHALL BE INSTALLED IN LIFTS NOT TO EXCEED 6–INCHES.



7 ASPHALT PAVEMENT SECTION - NEW VEHICLE PARKING

SCALE: NTS

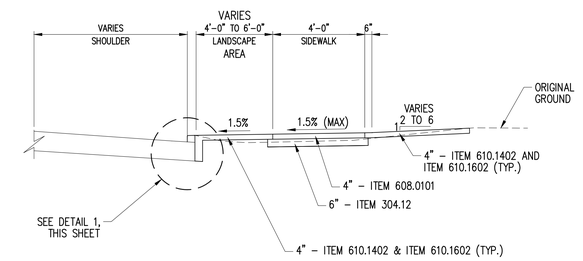




RFI 045

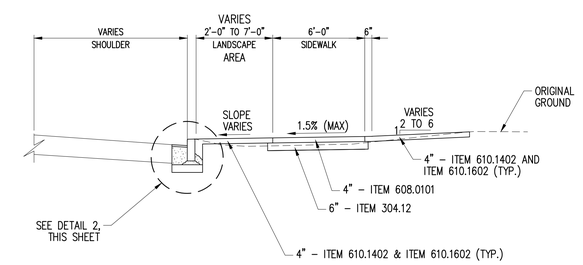
8 CONCRETE PAD DETAIL

SCALE: NTS



3 TYPICAL SECTION - ORCHARD STREET

SCALE: NTS



4 TYPICAL SECTION - CALVERT STREET

SCALE: NTS

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
4	01/20/2025	REVISED PER DOT COMMENTS
3	12/04/2024	ISSUE FOR CONSTRUCTION - PHASE 2
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

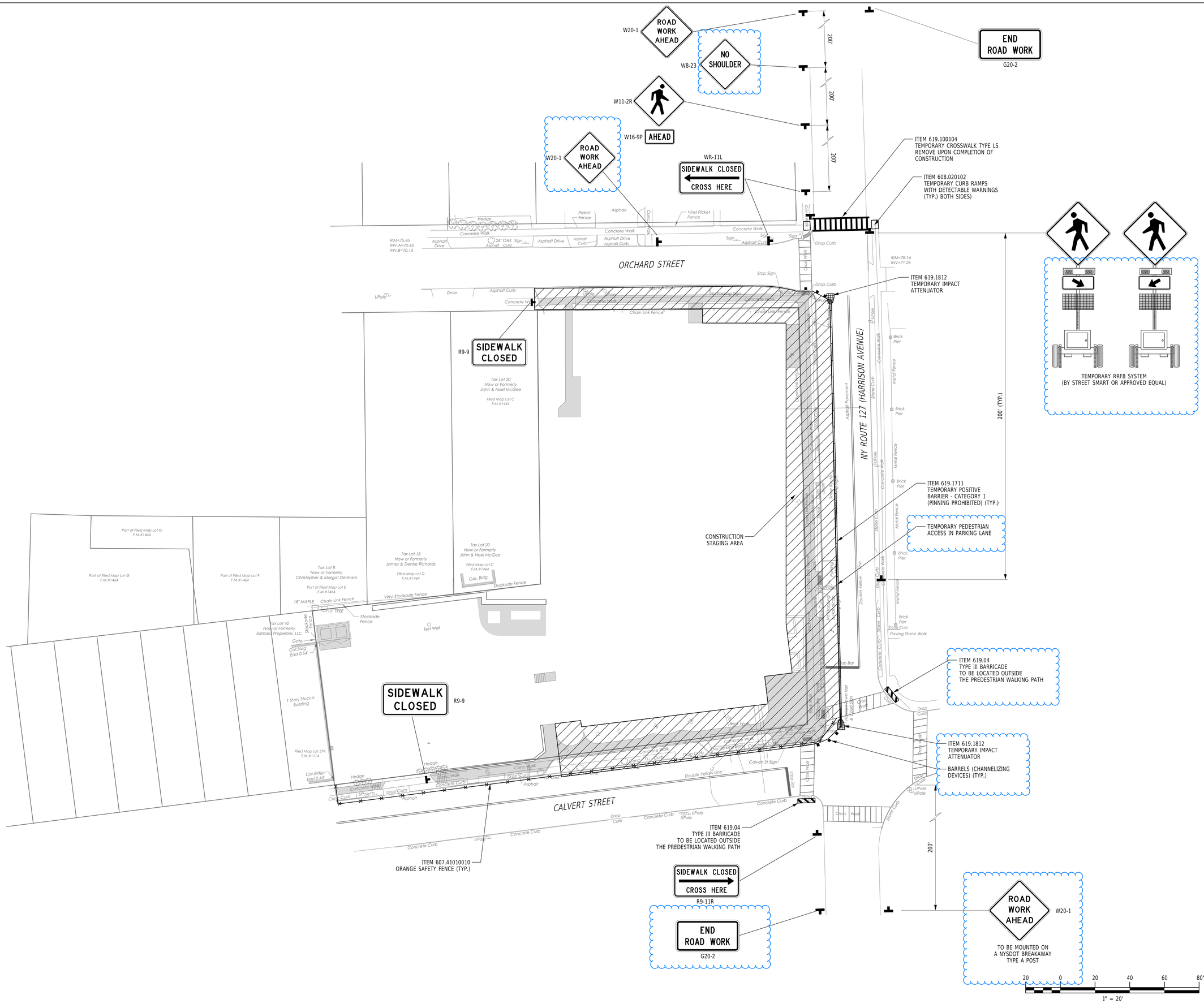
Sheet Title

SITE DETAILS

Job No.	Date
2020-1005	01/24/2024
Scale: AS NOTED	Drawn / Checked: TG/GB

Sheet Number

C104



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build

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Professional Seal

No.	Date	Issue
5	04/03/2025	BULLETIN 5
4	01/20/2025	REVISED PER DOT COMMENTS
3	12/04/2024	ISSUE FOR CONSTRUCTION - PHASE 2
2	06/05/2024	ISSUE FOR BID - PHASE 2
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title

WORK ZONE TRAFFIC CONTROL PLAN

Job No.	Date
2020-1005	01/24/2024
Scale	Drawn / Checked
AS NOTED	TG/GB

Sheet Number

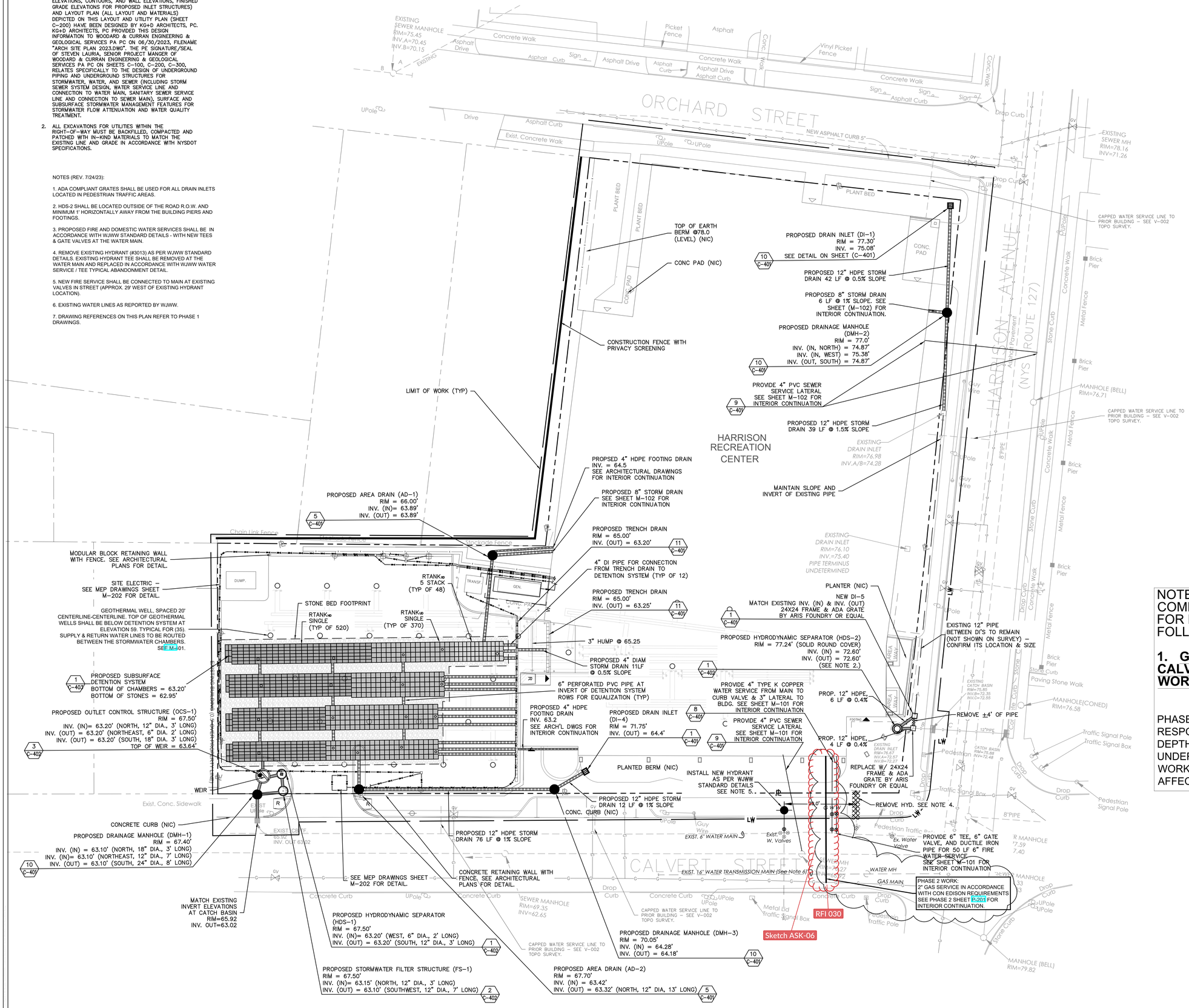
C105

GENERAL NOTES:

1. THE PROPOSED SITE GRADING (INCLUDING PROPOSED SPOT ELEVATIONS, CONTOURS, AND WALL ELEVATIONS, FINISHED GRADE ELEVATIONS FOR PROPOSED INLET STRUCTURES) AND LAYOUT PLAN (ALL LAYOUT AND MATERIALS) DEPICTED ON THIS LAYOUT AND UTILITY PLAN (SHEET C-200) HAVE BEEN DESIGNED BY KG+D ARCHITECTS, PC. KG+D ARCHITECTS, PC PROVIDED THIS DESIGN INFORMATION TO WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON 06/30/2023, FILENAME "ARCH SITE PLAN 2023.DWG". THE PE SIGNATURE/SEAL OF STEVEN LAURIA, SENIOR PROJECT MANGER OF WOODARD & CURRAN ENGINEERING & GEOLOGICAL SERVICES PA PC ON SHEETS C-100, C-200, C-300, RELATES SPECIFICALLY TO THE DESIGN OF UNDERGROUND PIPING AND UNDERGROUND STRUCTURES FOR STORMWATER, WATER, AND SEWER (INCLUDING STORM SEWER SYSTEM DESIGN, WATER SERVICE LINE AND CONNECTION TO WATER MAIN, SANITARY SEWER SERVICE LINE AND CONNECTION TO SEWER MAIN), SURFACE AND SUBSURFACE STORMWATER MANAGEMENT FEATURES FOR STORMWATER FLOW ATTENUATION AND WATER QUALITY TREATMENT.
2. ALL EXCAVATIONS FOR UTILITIES WITHIN THE RIGHT-OF-WAY MUST BE BACKFILLED, COMPACTED AND PATCHED WITH IN-KIND MATERIALS TO MATCH THE EXISTING LINE AND GRADE IN ACCORDANCE WITH NYSDOT SPECIFICATIONS.

NOTES (REV. 7/24/23):

1. ADA COMPLIANT GRATES SHALL BE USED FOR ALL DRAIN INLETS LOCATED IN PEDESTRIAN TRAFFIC AREAS.
2. HDS-2 SHALL BE LOCATED OUTSIDE OF THE ROAD R.O.W. AND MINIMUM 1' HORIZONTALLY AWAY FROM THE BUILDING PIERS AND FOOTINGS.
3. PROPOSED FIRE AND DOMESTIC WATER SERVICES SHALL BE IN ACCORDANCE WITH WJWW STANDARD DETAILS - WITH NEW TEES & GATE VALVES AT THE WATER MAIN.
4. REMOVE EXISTING HYDRANT (#3013) AS PER WJWW STANDARD DETAILS. EXISTING HYDRANT TEE SHALL BE REMOVED AT THE WATER MAIN AND REPLACED IN ACCORDANCE WITH WJWW WATER SERVICE / TEE TYPICAL ABANDONMENT DETAIL.
5. NEW FIRE SERVICE SHALL BE CONNECTED TO MAIN AT EXISTING VALVES IN STREET (APPROX. 29' WEST OF EXISTING HYDRANT LOCATION).
6. EXISTING WATER LINES AS REPORTED BY WJWW.
7. DRAWING REFERENCES ON THIS PLAN REFER TO PHASE 1 DRAWINGS.



NOTE - THIS DRAWING SHOWS COMPLETED PHASE 1 WORK FOR REFERENCE EXCEPT AS FOLLOWS:

1. GAS SERVICE FROM CALVERT STREET IS PHASE 2 WORK.

PHASE 2 CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE WORK AREA AND POTENTIALLY AFFECTED BY PHASE 2 WORK.

BAR SCALE
1" = 15'
CHECK GRAPHIC SCALE BEFORE USING

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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No.	Date	Issue
7	06/05/2024	ISSUE FOR BID - PHASE 2
6	01/08/2024	REVISE WATER & STORM
5	07/24/2023	REISSUE FOR PERMIT - PHASE 1
4	06/29/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

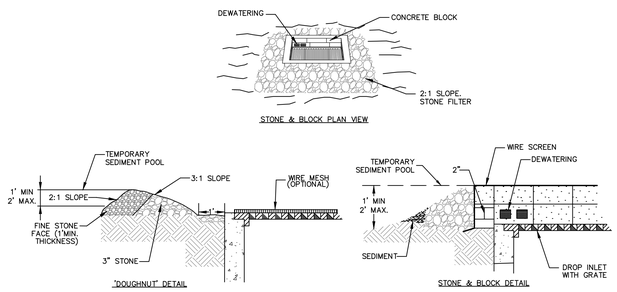
Sheet Title

UTILITIES PLAN

Job No.	Date
2020-1005	07/07/2023
Scale	Drawn / Checked
AS NOTED	CJL/JLMT

Sheet Number

C-200



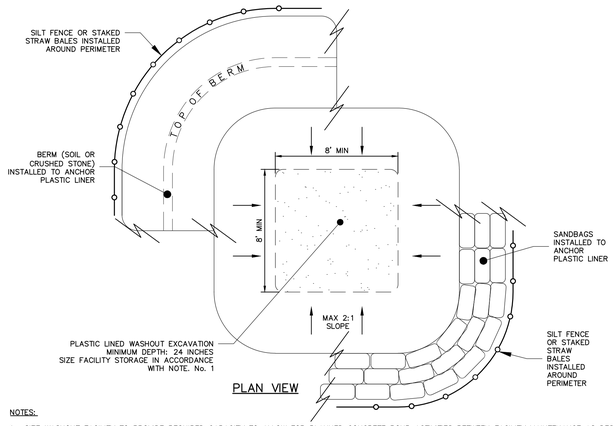
NOTES:

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½ TO ¼ INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

1 C-400 STONE AND BLOCK DROP INLET PROTECTION

NOT TO SCALE

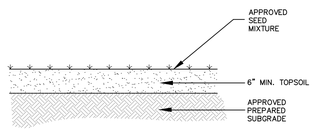


NOTES:

1. SIZE WASHOUT FACILITY TO PROVIDE REQUIRED CAPACITY TO ALLOW FOR PLANNED CONCRETE POUR ACTIVITIES BETWEEN FACILITY MAINTENANCE AS DESCRIBED IN NOTE 9. THE FOLLOWING RELATIONSHIPS CAN BE USED TO ESTIMATE REQUIRED CAPACITY. MINIMUM FACILITY DIMENSIONS SHALL BE CONSTRUCTED AS NOTED ON DETAIL.
   REQUIRED WASH WATER
   TRUCK CHUTE 7 GAL
   HOPPER 50 GAL
2. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED, INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE NYSDEC NEW YORK STANDARDS & SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
3. LOCATE WASHOUT FACILITY MINIMUM OF 100 FEET AWAY FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
4. WASHOUT FACILITY SHALL BE LINED WITH MINIMUM 10 MIL THICKNESS PLASTIC SHEETING OR EQUIVALENT WATERTIGHT BARRIER APPROVED BY THE ENGINEER.
5. LINER SHALL BE MAINTAINED FREE OF TEARS AND PUNCTURES AT ALL TIMES.
6. ANCHOR LINER AT TOP OF EXCAVATION WITH EARTHEN BERM, SANDBAGS OR STONE AS SHOWN ON THE DETAIL.
7. SURROUND WASHOUT FACILITY WITH SILT FENCE OR STAKED STRAW BALES.
8. ALL WASHOUT FACILITIES SHALL BE INSPECTED DAILY.
9. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75 PERCENT OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO AN ACCEPTABLE CONTAINMENT VESSEL AND DISPOSED OFFSITE IN ACCORDANCE WITH LOCAL REGULATIONS.
10. PLASTIC LINER SHALL BE REPLACED WITH REMOVAL OF ACCUMULATED HARDENED MATERIAL.
11. LOCATION TO BE APPROVED BY ENGINEER.

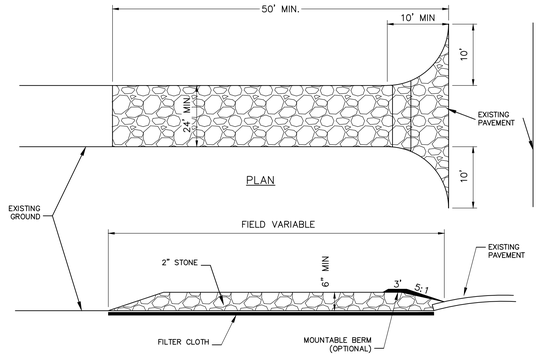
5 C-400 CONCRETE WASHOUT AREA

NOT TO SCALE



9 C-400 LAWN RESTORATION

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS:

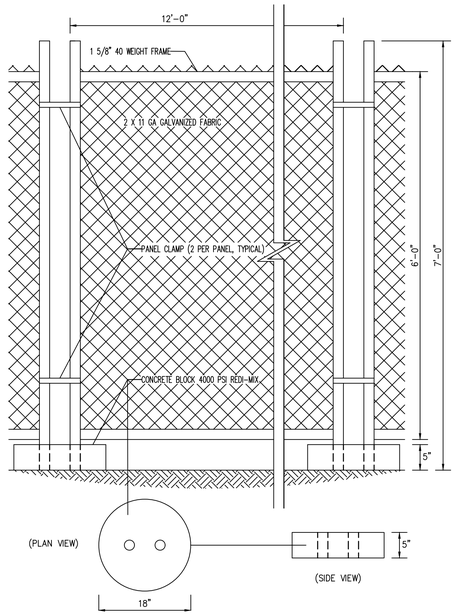
1. USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
3. THICKNESS NOT LESS THAN 6 INCHES.
4. 24 FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR. CONTRACTOR SHALL PROVIDE 24' WIDTH WHEREVER POSSIBLE WITHOUT DISTURBING EXISTING STRUCTURES OR EXISTING TREES TO REMAIN)
5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

CONSTRUCTION SPECIFICATIONS:

6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
7. ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
9. REMOVE STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACEMENT OF BITUMINOUS CONCRETE PAVEMENT.

2 C-400 STABILIZED CONSTRUCTION ACCESS

NOT TO SCALE

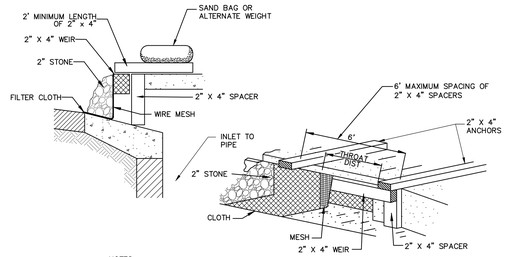


NOTES:

1. CONTRACTOR SHALL PROVIDE PERIODIC INSPECTION AND MAINTENANCE OF FENCE INCLUDING REPAIRS AS NECESSARY AND REQUIRED.
2. PROVIDE PRIVACY SCREEN WHERE SHOWN ON PLAN.

6 C-400 TEMPORARY CHAIN LINK CONSTRUCTION FENCE

NOT TO SCALE



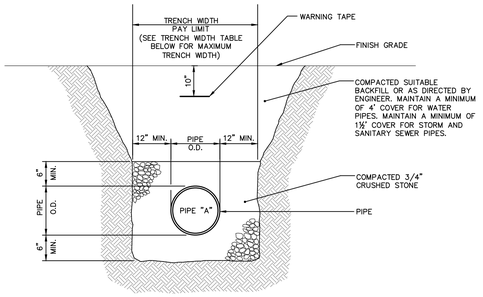
NOTES:

1. FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" X 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" X 4" ANCHORS 2' LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.

MAXIMUM DRAINAGE AREA 1 ACRE

3 C-400 CURB INLET PROTECTION

NOT TO SCALE



TRENCH WIDTHS [a]	
PIPE SIZE	MAX (ONE PIPE)[b]
15" OR LESS	4'-0"
18"	5'-0"
24"	5'-6"
30"	6'-0"
36"	6'-6"
42"	7'-0"
48"	7'-6"
MANHOLES	O.D. + 4'-0"

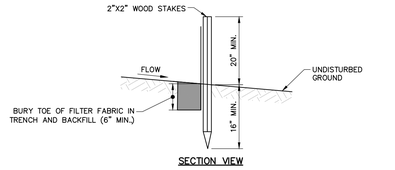
a. REPRESENTS PAYMENT WIDTH
b. FOR ROCK EXCAVATION SUBTRACT 1'-0"

NOTES:

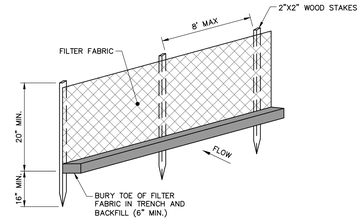
1. MAINTAIN UNIFORM TRENCH WIDTH TO 6" OVER PIPE.
2. IF SHEETING IS REQUIRED TO REMAIN, CUT OFF TWO (2) FEET BELOW FINISH GRADE.
3. NO PAYMENT WILL BE MADE FOR SHEETING LEFT IN PLACE UNLESS DIRECTED BY ENGINEER.
4. IF GROUNDWATER IS ENCOUNTERED, WRAP STONE WITH MIRAFI 140N FILTER FABRIC OR APPROVED EQUAL.
5. SEE PAVEMENT REPAIR DETAILS FOR ROAD WORK AREAS
6. PROVIDE 6" MIN. BEDDING FOR AREAS OF EXCAVATION IN ROCK.

7 C-400 TYPICAL PIPE TRENCH

NOT TO SCALE



SECTION VIEW



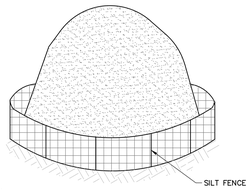
ISOMETRIC VIEW

NOTES:

1. INSTALL FABRIC ON UPHILL SIDE OF WOOD STAKES.
2. SPACING BETWEEN WOOD STAKES PER MANUFACTURER'S RECOMMENDATION.
3. SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.
4. MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
5. REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.

4 C-400 SILT FENCE

NOT TO SCALE



NOTES:

1. STOCKPILES SHALL BE SURROUNDED BY SILT FENCE.
2. STOCKPILES SHALL HAVE A MAXIMUM 2:1 (H:V) SIDE SLOPE.
3. REPAIR OR REPLACE DAMAGED SILT FENCE DUE TO CONSTRUCTION ACTIVITIES OR STOCKPILE MITIGATION.
4. STOCKPILE SHALL BE LOCATED IN AREAS AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

8 C-400 TEMPORARY SOIL STOCKPILE

NOT TO SCALE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

Woodard & Curran
Woodard & Curran Engineering & Geological Services PA PC
800 Westchester Avenue, Suite N507
Rye Brook, New York 10573
800.807.4080 | www.woodardcurran.com

CONSTRUCTION DOCUMENTS

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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE 18, SECT. 7209 (2) OF NEW YORK STATE LAW.
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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

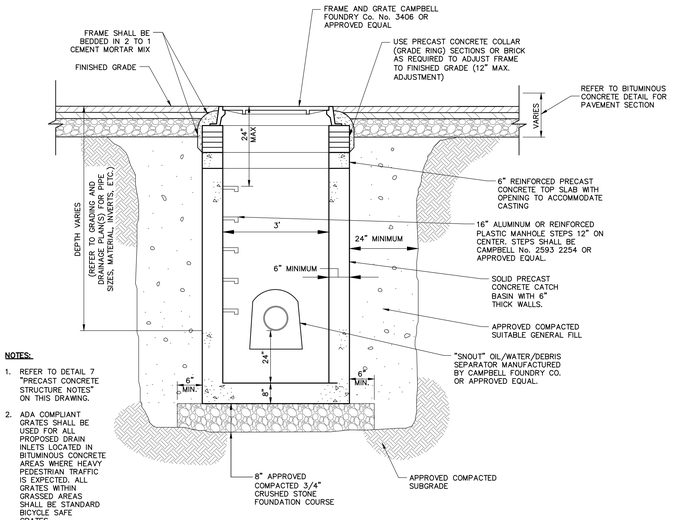
Sheet Title

CONSTRUCTION DETAILS

Job No.	Date
2020-1005	06/29/2023
Scale: AS NOTED	Drawn / Checked: CJL/JLMT

Sheet Number

C-400



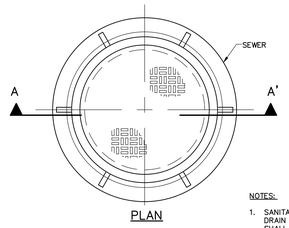
NOTES:

1. REFER TO DETAIL 7 "PRECAST CONCRETE STRUCTURE NOTES" ON THIS DRAWING.
2. ADA COMPLIANT GRATES SHALL BE USED FOR ALL PROPOSED DRAIN INLETS LOCATED IN BITUMINOUS CONCRETE AREAS WHERE HEAVY PEDESTRIAN TRAFFIC IS EXPECTED. ALL GRATES WITHIN GRASSED AREAS SHALL BE STANDARD BICYCLE SAFE GRATES.

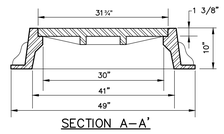
SECTION VIEW

1 C-401 DRAIN INLET (CATCH BASIN)

NOT TO SCALE



PLAN



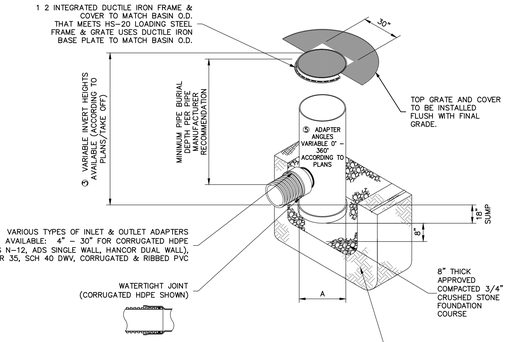
SECTION A–A'

NOTES:

1. SANITARY SEWER AND STORM DRAIN MANHOLE FRAMES COVERS SHALL BE CAMPBELL FOUNDRY No. 1206 OR APPROVED EQUAL.
2. SANITARY SEWER MANHOLES SHALL HAVE THE WORD 'SEWER' CAST ON COVER.
3. STORM SEWER MANHOLES SHALL HAVE THE WORD 'DRAIN' CAST ON COVER. COVER SHALL HAVE VENT HOLES

2 C-401 MANHOLE FRAME & COVER

NOT TO SCALE



1 12" – 30" FRAMES, GRATES, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05

2 12" – 30" FRAMES & GRATES SHALL BE STEEL PER ASTM A36

3 DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS

4 DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC

5 ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012, 7001-110-013, & 7001-110-014

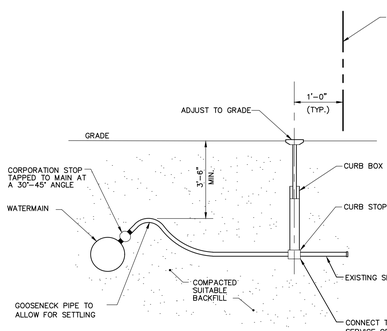
6 ALL OPTIONS SHALL MEET HS-20 LOAD RATING

NOTES:

1. INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

5 C-401 AREA DRAIN

NOT TO SCALE



SERVICE LINE SIZE: 3"

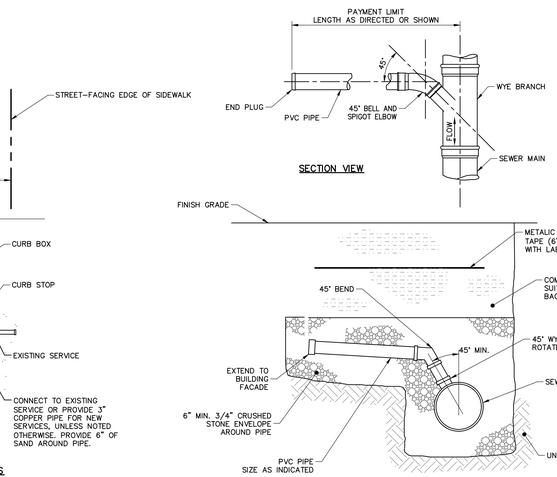
SERVICE LINE MATERIALS: COPPER, TYPE K

NOTES:

1. CORPORATION STOP, CURB STOP, CURB BOX AND ENLARGED BASE FOR CURB BOX SHALL BE MUELLER COMPANY OR APPROVED EQUAL IN ACCORDANCE WITH MUELLER COMPANY CATALOG, LATEST EDITION. REFER TO PROJECT SPECIFICATIONS FOR WATER LINE PIPE, CORPORATION STOP AND CURB STOP AND BOX INFORMATION.
2. THERE SHALL BE NO JOINTS IN THE SERVICE LINE BETWEEN THE WATER MAIN AND CURB STOP.

8 C-401 TYPICAL WATER SERVICE CONNECTION

SCALE: N.T.S.

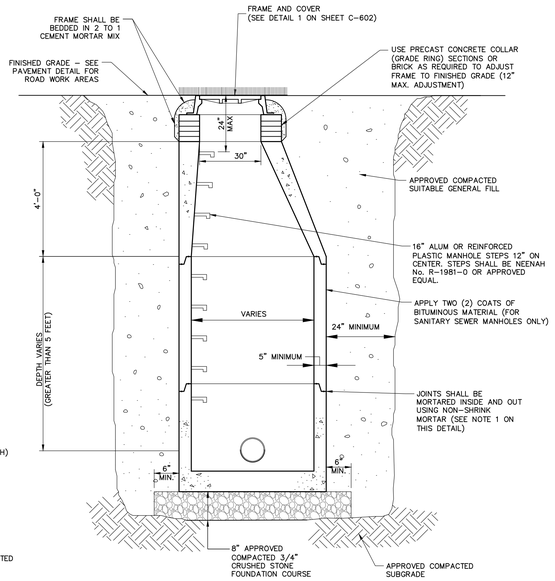


NOTES:

1. A 2" RIGID INSULATION WILL BE REQUIRED IN AREAS WHERE LESS THAN 4'-0" OF COVER OVER TOP OF PIPE OR WHERE REQUIRED BY ENGINEER.
2. SERVICE PIPE SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS OTHERWISE DIRECTED.

9 C-401 TYPICAL SEWER SERVICE CONNECTION

SCALE: N.T.S.

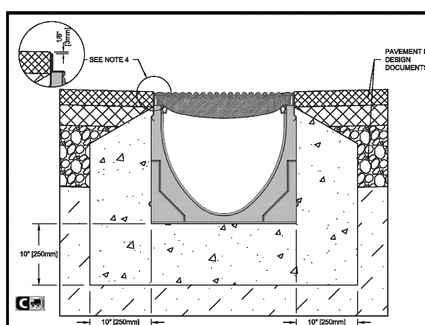


NOTES:

1. THE WIDTH OF THE MANHOLE WILL BE A MINIMUM OF 4' EXCEPT WHERE A NEW MANHOLE WITH A DROP CONNECTION IS SHOWN. THEN THE MINIMUM WIDTH OF THE MANHOLE IS 5'.
2. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL BE SUITABLE FOR HS-20 LOADINGS.
3. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C-478.
4. ALTERNATE TOP SLAB MAY BE USED AS DICTATED BY DESIGN AND/OR FIELD CONDITIONS.
5. MANHOLE FRAME AND GRATE(S) SHALL MEET MUNICIPAL AND STATE SPECIFICATIONS WHEN APPLICABLE.
6. REFER TO PROJECT SPECIFICATIONS FOR MORE DRAINAGE MANHOLE INFORMATION.
7. JOINT SEALANT BETWEEN SECTIONS SHALL BE BUTYL RUBBER.
8. PROVIDE ANTIFLOTATION SLAB EXTENSION AS REQUIRED TO SATISFY ANTIFLOTATION REQUIREMENTS.

10 C-401 DRAINAGE MANHOLE

NOT TO SCALE



NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K300 KLASSIKDRAIN 'DRAINLOK' LOAD CLASS C

GENERAL

THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K300 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS

CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,600 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (360mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'DRAINLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

K3-C-HAP	K300 - KLASSIKDRAIN - LOAD CLASS: C
DATE: 08/18/16	Haunched Asphalt Pavement
	INSTALLATION DRAWING - ACO DRAIN

ACO Polymer Products, Inc.

825 W. Beechcroft St	9470 Pinecone Dr.	4211 Pleasant Rd.
Casa Grande, AZ 85122	Mentor, OH 44060	Fort Mill, SC 29708
Tel: 520-421-9988	Tel: 440-639-7230	Tel: 440-639-7230
Fax: 520-421-9699	Fax: 440-639-7236	Fax: 803-902-1063

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

11 C-401 TRENCH DRAIN

SCALE: N.T.S.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

Woodard & Curran
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800 Westchester Avenue, Suite N507
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800.807.4080 | www.woodardcurran.com

CONSTRUCTION DOCUMENTS

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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

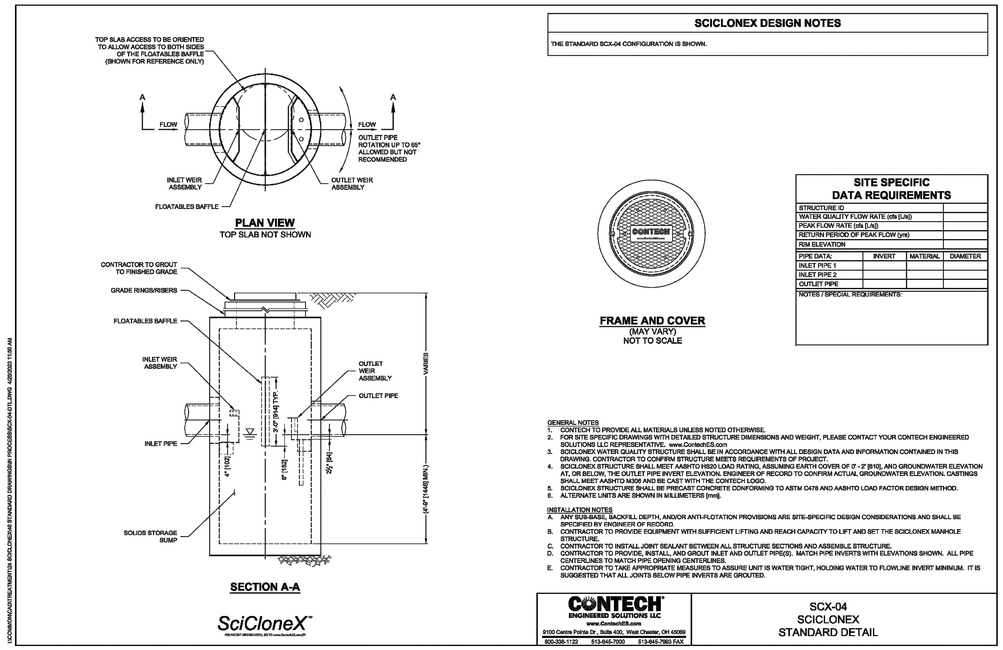
Sheet Title

CONSTRUCTION DETAILS

Job No.	Date
2020-1005	06/29/2023
Scale: AS NOTED	Drawn / Checked: CJL/JLMT

Sheet Number

C-401



SCICLONEX DESIGN NOTES

THE STANDARD SCX-04 CONFIGURATION IS SHOWN.

FRAME AND COVER
(MAY VARY)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			
WATER QUALITY FLOW RATE (cfs [L/s])			
PEAK FLOW RATE (cfs [L/s])			
RETURN PERIOD OF PEAK FLOW (yrs)			
RIM ELEVATION			
PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:

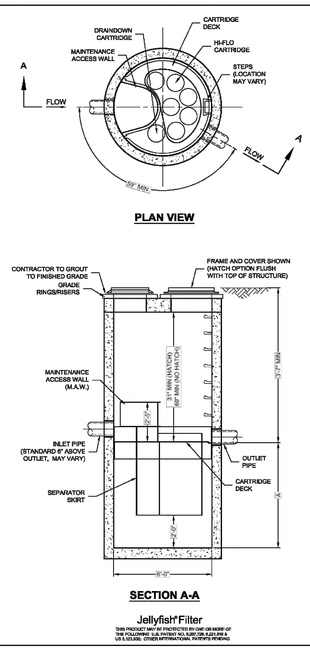
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. SCICLONEX WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. SCICLONEX STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH 'THE CONTECH LOGO.
5. SCICLONEX STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE SCICLONEX MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9100 Centre Pointe Dr., Suite 430, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SCX-04
SCICLONEX
STANDARD DETAIL

1 C-402 HYDRODYNAMIC SEPARATOR TREATMENT STRUCTURE (HDS-1, HDS-2)
NOT TO SCALE



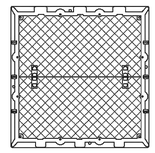
JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN. 8'72" MANHOLE JELLYFISH PEAK TREATMENT CAPACITY IS 1.18 CFS. IF THE SITE CONDITIONS EXCEED 1.18 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE DEPTH	54"	40"	27"	16"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-3"	4'-2"	3'-2"
FLOW RATE HIGH-FLO / DRAINDOWN (cfs) (per cart)	0.19 / 0.09	0.13 / 0.066	0.09 / 0.045	0.05 / 0.025
MAX. CARTS HIGH-FLO / DRAINDOWN	6 / 1			

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



HATCH
(48" x 48" CAST INTO SLAB)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			*
WATER QUALITY FLOW RATE (cfs)			*
PEAK FLOW RATE (cfs)			*
RETURN PERIOD OF PEAK FLOW (yrs)			*
# OF CARTRIDGES REQUIRED (HF / DD)			*/*
CARTRIDGE SIZE			*
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	*	*	*
INLET PIPE #2	*	*	*
OUTLET PIPE	*	*	*
RIM ELEVATION			*
ANTI-FLOTATION BALLAST	WIDTH	HEIGHT	
	*	*	

NOTES/SPECIAL REQUIREMENTS:

* PER ENGINEER OF RECORD

GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS REPRESENTATIVE. www.ContechES.com
3. JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 2' - 9', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 LOAD RATING AND BE CAST WITH THE CONTECH LOGO.
5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES:
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE (LIFTING CLUTCHES PROVIDED)
C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT)
D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
E. CARTRIDGE INSTALLATION, BY CONTECH, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION AT (855) 740-3515.

CONTECH ENGINEERED SOLUTIONS LLC
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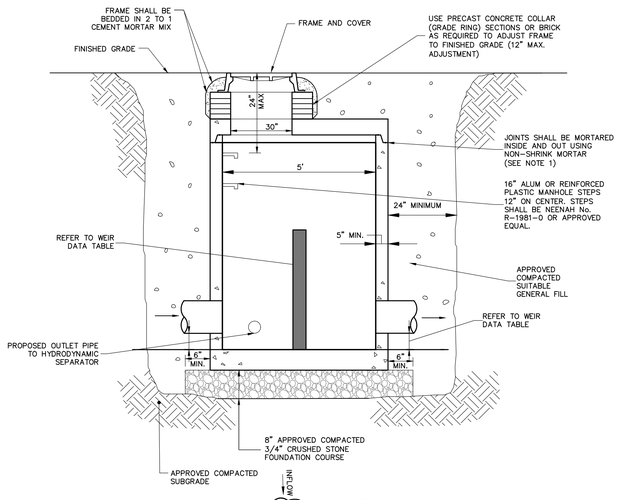
800-338-1122 513-645-7000 513-645-7993 FAX

JELLYFISH JF6
STANDARD DETAIL
OFFLINE CONFIGURATION

2 C-402 STORMWATER FILTER STRUCTURE (FS-1)
NOT TO SCALE



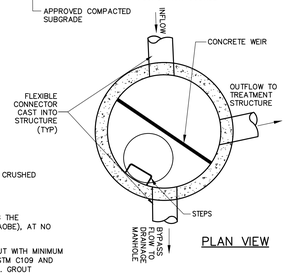
WEIR DATA TABLE	
STAGE	ELEVATION (FT)
	OCS-1
SUMP	62.70
WEIR	63.64

GENERAL

1. FOUNDATION COURSE FOR PRECAST CONCRETE STRUCTURES SHALL BE PLACED ON A COMPACTED LAYER OF APPROVED CRUSHED STONE HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
2. ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN HS-20 DESIGN LOAD.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE DRAWINGS OR AS ORDERED BY THE ENGINEER (AOBE), AT NO ADDITIONAL COST TO THE OWNER.
4. ALL REQUIRED PATCHING FOR DRAINAGE STRUCTURES SHALL BE COMPLETED WITH NON-SHRINKING CEMENT MORTAR GROUT WITH MINIMUM 1,000 PSI COMPRESSIVE STRENGTH IN (1) DAY AND 5,000 PSI COMPRESSIVE STRENGTH IN (28) DAYS AS TESTED PER ASTM C109 AND ASTM C-707. PATCHING PRODUCTS INCLUDE "DURAGROUT" BY L & M CONST. CHEMICAL CO., "FIVE STAR GROUT" BY U.S. GROUT COMPANY OR APPROVED EQUAL.
5. REFER TO PROJECT SPECIFICATIONS FOR DRAINAGE AND SANITARY PIPE CONNECTIONS INTO PRECAST CONCRETE STRUCTURES.
6. PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
7. MINIMUM COMPRESSIVE STRENGTH OF CLASS "A" CONCRETE (4,000 PSI).
8. PRECAST CONCRETE STRUCTURE LIFT HOLES SHALL BE PLUGGED AND MORTARED.
9. STRUCTURES SHALL CONFORM TO CURRENT ASTM AND OSHA REQUIREMENTS.
10. PRECAST CONCRETE STRUCTURE JOINTS SHALL CONFORM TO THE CURRENT ASTM DESIGNATION C-443.
11. PRECAST CONCRETE STRUCTURES SHALL COMPLY WITH ASTM STANDARD C-478. MANHOLE JOINTS SHALL COMPLY WITH ASTM STANDARD C-443.

MANHOLES

1. FOR PRECAST CONCRETE MANHOLES FIVE (5) FEET OR LESS IN HEIGHT, TOP CONE SECTION SHALL BE REPLACED WITH PRECAST REINFORCED CONCRETE SLAB (6" MIN. THICKNESS) WITH OPENING OF SUFFICIENT SIZE TO ACCOMMODATE MANHOLE CASTING.
2. FOR MANHOLES 10 FEET OR MORE IN DEPTH, MANHOLE DIAMETER SHALL BE FIVE (5) FEET.
3. TERMINAL MANHOLE FLOORS SHALL BE SLOPED TOWARD OUTFALL PIPE.



NOTES:

1. ALL JOINTS SHALL CONFORM TO A.S.T.M. DESIGNATION C-443, LATEST EDITION.
2. ALL PRECAST MANHOLE SECTIONS SHALL BE IN ACCORDANCE WITH "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS" A.S.T.M. DESIGNATION C-478, LATEST REVISION.
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE SHALL BE 4,000 PSI
4. ALL LIFT HOLES SHALL BE PLUGGED AND MORTARED.
5. MANHOLES SHALL MEET ALL A.S.T.M. AND O.S.H.A. REQUIREMENTS.
6. MANHOLES GREATER THAN 10 FEET IN DEPTH SHALL HAVE A DIAMETER OF 5 FEET.

CATCH BASINS AND OUTLET CONTROL STRUCTURES

1. STEPS WILL NOT BE REQUIRED IN CATCH BASINS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN CATCH BASINS FOUR (4) FEET OR GREATER IN DEPTH. DEPTHS FOR CATCH BASINS SHALL BE MEASURED FROM FINISHED GRADE TO INSIDE BOTTOM OF STRUCTURE (INCLUDING SUMP AS APPLICABLE).
2. STEPS SHALL BE LOCATED WITHIN STRUCTURE TO AVOID PLACEMENT OVER PIPES.
3. WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
4. PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED CATCH BASIN WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF CASTING (FRAME & GRATE).
5. FOR ALL STRUCTURES GREATER THAN 10 FEET IN DEPTH, STRUCTURES SHALL PROVIDE MINIMUM INSIDE DIMENSIONS OF 4 FEET X 4 FEET.

3 C-402 OUTLET CONTROL STRUCTURE
NOT TO SCALE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

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No.	Date	Issue
4	07/12/2023	ISSUE FOR BID - PHASE 1
3	06/09/2023	ISSUE FOR PERMIT - PHASE 1
2	06/01/2020	DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

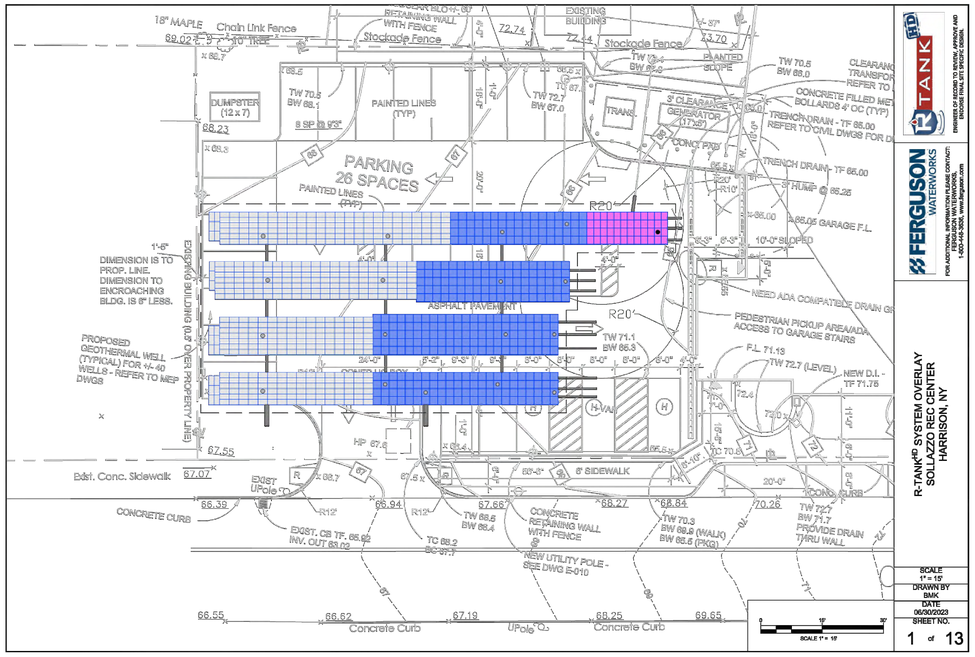
Sheet Title

CONSTRUCTION DETAILS

Job No. 2020-1005	Date 06/29/2023
Scale AS NOTED	Drawn / Checked CJL/JLMT

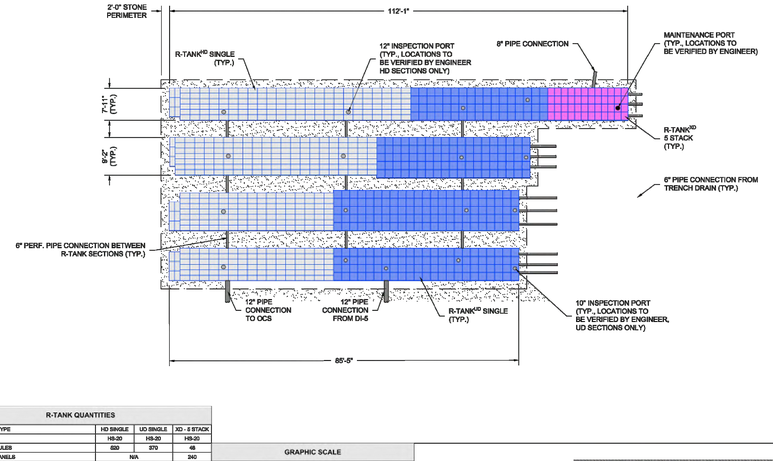
Sheet Number

C-402



R-TANK^{HD} SYSTEM OVERLAY
SOLLAZZO REC CENTER
HARRISON, NY

SCALE 1" = 15'
DRAWN BY BMK
DATE 06/30/2023
SHEET NO. 1 of 13

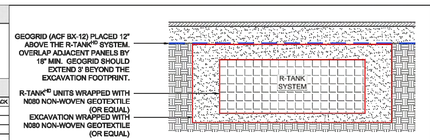


R-TANK QUANTITIES			
R-TANK MODULE TYPE	HD SINGLE	UD SINGLE	XD - 5 STACK
TRAFFIC LOAD	HS-20	HS-20	HS-20
# OF R-TANK MODULES	630	370	48
# OF R-TANK XD PANELS	N/A		240
TOTAL SYSTEM STORAGE	7,054 CF		
R-TANK STORAGE VOLUME	3,919 CF		
STONE STORAGE VOLUME (40% VOID RATIO)	3,117 CF		
STONE BED FOOTPRINT	8,720 SF		
STONE QUANTITY	277 CY		
N060 NON-WOVEN GEOTEXTILE TANK WRAP	1,603 SY		
N060 NON-WOVEN GEOTEXTILE EXCAVATION WRAP	1,399 SY		
ACF BX-12 GEOGRID	782 SY		
INSPECTION PORTS	6	11	-
MAINTENANCE PORTS	-		1
GEOTEXTILE PIPE BOOTS (8"	12")	(22	2)	
STORMWRK CPS (8"	8")	(12	1)	

NOTE: STONE QUANTITY INCLUDES 12" OF COVER, 24" OF SIDE BACKFILL AND 3" OF BASE.
NOTE: GEOTEXTILE / LINER QUANTITIES INCLUDE A 15% WASTE FACTOR.
SEE SHEETS 3 - 13 FOR DETAILS AND ADDITIONAL INFORMATION

GRAPHIC SCALE
0 15' 30'
SCALE 1" = 15'

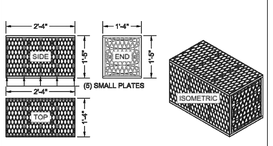
R-TANK ELEVATIONS			
MODULE DESIGNATION	HD SINGLE	UD SINGLE	XD - 5 STACK
BASE INV.	62.86	62.86	62.86
TANK INV.	63.35	63.20	63.30
TOP OF TANK	64.64	64.38	64.28
GEOGRID	64.64	64.88	64.27
MIN. ALLOW. FINAL GRADE	65.51	65.36	64.52
MAX. ALLOW. FINAL GRADE	71.62	65.36	80.89



R-TANK^{HD} TANK WRAP & EXCAVATION ENVELOPE DETAIL

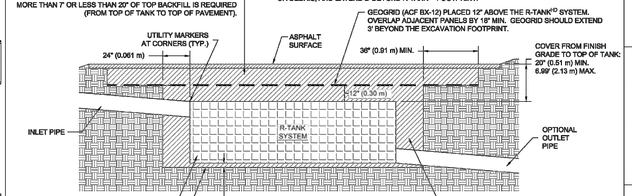
R-TANK^{HD} SYSTEM LAYOUT
SOLLAZZO REC CENTER
HARRISON, NY

SCALE 1" = 15'
DRAWN BY BMK
DATE 06/30/2023
SHEET NO. 2 of 13



TOTAL COVER: 20" MINIMUM AND 84" MAXIMUM. FIRST 12" MUST BE FREE DRAINING BACKFILL (SPEC SECTION 2.03B): STONE <1.5" OR SOIL (USCS CLASS GW, GP, SW OR SP). ADDITIONAL FILL MAY BE STRUCTURAL FILL (SPEC SECTION 2.03C): STONE OR SOIL (USCS CLASS SM, SP, SW, GM, GP OR GW) WITH MAX CLAY CONTENT<10%, MAX 25% PASSING NO. 200 SIEVE, AND MAX PLASTICITY INDEX OF 4 A MIN. 12" COVER MUST BE MAINTAINED BETWEEN BACKFILL EQUIPMENT AND THE TOP OF THE R-TANK™ SYSTEM AT ALL TIMES. TOTAL HEIGHT OF TOP BACKFILL SHOULD NOT EXCEED 7'. CONTACT FERGUSON WATERWORKS IF MORE THAN 7' OR LESS THAN 20" OF TOP BACKFILL IS REQUIRED (FROM TOP OF TANK TO TOP OF PAVEMENT).

NOTES:
1. FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK^{HD} MODULE SHEET .
2. INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF HL-93 LOADING PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CUSTOMARY U.S. UNITS, 7TH EDITION, 2014 WITH 2015 AND 2016 INTERIM REVISIONS.
3. PRE-TREATMENT STRUCTURES NOT SHOWN.
4. FOR INFILTRATION APPLICATIONS, GEOTEXTILE ENVELOPING R-TANK SHALL BE ACF M200 (PER SPEC SECTION 2.02A) AND BASE SHALL BE 4" MIN. UNCOMPACTED FREE DRAINING BACKFILL (SPEC SECTION 2.03A) TO PROVIDE A LEVEL BASE. SURFACE MUST BE SMOOTH, FREE OF LUMPS OR DEBRIS, AND EXTEND 2' BEYOND R-TANK^{HD} FOOTPRINT.



MODULE DATA

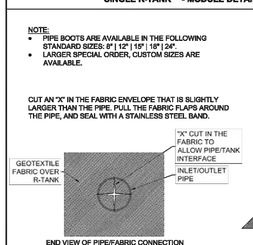
GEOMETRY:	**LOAD RATING:**
LENGTH = 28.15 IN. (716 MM)	33.4 PSI, (MODULE ONLY)
WIDTH = 15.75 IN. (400 MM)	HS20/HS25 - SEE SPEC FOR
HEIGHT = 17.32 IN. (440 MM)	COVER REQUIREMENTS
TANK VOLUME = 4.44 CF	**MATERIAL:**
STORAGE VOLUME = 4.22 CF	100% RECYCLED POLYPROPYLENE
VOID INTERNAL VOLUME: 95%	**SMALL PLATES REQUIRED:**
VOID SURFACE AREA: 90%	5/SEGMENT, 5/MODULE

SINGLE R-TANK^{HD} - MODULE DETAIL

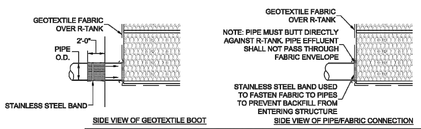
R-TANK^{HD} & HS-20 LOADS - SECTION VIEW

NOTE:
- PIPE BOOTS ARE AVAILABLE IN THE FOLLOWING STANDARD SIZES: 8" | 12" | 15" | 18" | 24".
- LARGER SPECIAL ORDER, CUSTOM SIZES ARE AVAILABLE.

CUT AN "X" IN THE FABRIC ENVELOPE THAT IS SLIGHTLY LARGER THAN THE PIPE. PULL THE FABRIC FLAPS AROUND THE PIPE, AND SEAL WITH A STAINLESS STEEL BAND.



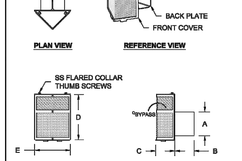
AFTER TANK WRAP IS SECURED TO PIPE, SLIDE BOOT AGAINST R-TANK AND SECURE WITH SECOND STAINLESS STEEL BAND, THEN ATTACH BOOT FLAP TO TANK ENVELOPE FABRIC WITH DUCT TAPE OR OTHER ADHESIVE.



R-TANK TYPICAL TANK INLET/OUTLET W/ GEOTEXTILE PIPE BOOT DETAIL

R-TANK^{HD} SYSTEM DETAILS
SOLLAZZO REC CENTER
HARRISON, NY

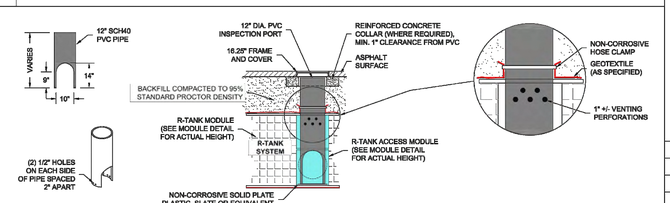
SCALE NTS
DRAWN BY BMK
DATE 06/30/2023
SHEET NO. 3 of 13



PIPE DIA. (A)	STUB LENGTH (B)	CPS DEPTH (C)	CPS HEIGHT (D)	CPS WIDTH (E)
6"	4.00"	8.50"	10.00"	10.00"
8"	6.00"	11.00"	12.25"	11.50"
12"	8.00"	16.00"	15.50"	15.50"
15"	8.00"	16.00"	21.50"	18.50"
18"	8.00"	16.00"	28.00"	21.50"

STORMRING CPS PRETREATMENT DETAIL

NOTES
1. THE INSPECTION PORT IS USED IN THE ACCESS MODULE TO INSPECT THE LEVEL OF SEDIMENT ACCUMULATION.
2. MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.
3. R-TANK^{HD}, R-TANK^{HD}, R-TANK^{HD} AND R-TANK^{HD} MAY BE USED IN TRAFFIC APPLICATIONS.
4. SEE TRAFFIC LOADING DETAIL FOR MINIMUM & MAXIMUM COVER REQUIREMENTS.
5. IF INSPECTION PORT IS LOCATED IN A NON-TRAFFIC AREA, A PLASTIC CAP CAN BE USED IN LIEU OF A FRAME AND COVER WITH CONCRETE COLLAR.



R-TANK TYPICAL INSPECTION PORT

R-TANK^{HD} SYSTEM DETAILS
SOLLAZZO REC CENTER
HARRISON, NY

SCALE NTS
DRAWN BY BMK
DATE 06/30/2023
SHEET NO. 4 of 13

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 1

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

CONSTRUCTION DETAILS

Job No.	Date
2020-1005	06/29/2023
Scale: AS NOTED	Drawn / Checked: CJL/JLMT

Sheet Number

C-403

PARKING LOT SIGN SCHEDULE

AA	NO PARKING (R8-3a)	MUTCD # R8-3a
BB	6:00 AM TO 6:00 PM (R8-3hP)	MUTCD # R8-3hP TIMES AS SPECIFIED BY OWNER (1) ARROW LT & (1) ARROW RT
CC	RESERVED PARKING (R7-8)	MUTCD # R7-8 (WITHOUT ARROW)
DD	VAN ACCESSIBLE (R7-8P)	MUTCD # R7-8P
EE	NO PARKING ANY TIME	MUTCD # R7-1
FF	MATCH STYLE OF MUTCD # R7-1	INFORMATION SIGN: "RECREATION CENTER PARKING ONLY"
GG	MATCH STYLE OF MUTCD # R7-1	"LIMIT 16 TON AXLE WEIGHT DO NOT ENTER IF EXCEEDING HD-20"

SEE DWG C100 FOR STREET SIGNS

SITE LIGHTING

1. LIGHTING SHOWN ON THIS PLAN:
   - 1.1. PARKING LOT POLE LIGHTS: (6) BEGA 99522K4
   - 1.2. SOUTH SIDEWALK BOLLARD LIGHTS: (6) BEGA 84430, 3500K
   - 1.3. EAST GROUND MOUNTED UPLIGHTS: (6) BEGA 77125
   - 1.4. REFER TO ARCHITECTURALS FOR BUILDING MOUNTED LIGHTS
   - 1.5. REFER TO DWG E-010, E-011 & E-601 FOR ADDL INFORMATION
2. PARKING LOT ILLUMINATION LEVELS:
2.80 FC AVG, 5.6 FC MAX, 0.1 FC MIN, 28.00 AVG/MIN, 56.00 MAX/MIN
BY INTERNATIONAL LIGHTS, 4/24/23

(6) TREE PLANTING DETAIL
SCALE: NTS

(5) SHRUB PLANTING DETAIL
SCALE: NTS

PLANTING NOTES

1. PLANT SIZES AND GRADING SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014) OF THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, FULLY FORMED AND IN A HEALTHY CONDITION FREE OF INSECTS, PESTS, DISEASE OR DAMAGE AT THE TIME OF INSTALLATION.
2. ALL PLANT MATERIALS MAY BE SUBJECT TO INSPECTION AND REJECTION BY THE ARCHITECT AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK.
3. OBTAIN ARCHITECT'S APPROVAL OF PLANT SUBSTITUTIONS AND TIME OF PLANTING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
4. OBTAIN ARCHITECT'S APPROVAL OF SEED MIXTURES AND TIME OF SEEDING PRIOR TO DELIVERY OF MATERIALS TO THE SITE.
5. STAKE OR FLAG PROPOSED PLANT LOCATIONS FOR APPROVAL BY THE ARCHITECT PRIOR TO COMMENCING PLANTING.
6. NOTIFY ARCHITECT AT LEAST 72 HOURS IN ADVANCE OF STARTING PLANTING OPERATIONS. RECEIVE APPROVAL FOR LAYOUT OF ALL BED LINES AND TREE LOCATIONS PRIOR TO INSTALLATION.
7. PLANTING GUARANTEE & REPLACEMENT: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR ONE FULL YEAR FROM THE TIME OF FORMAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL REPLACE ANY PLANT THAT IS DEAD OR IN AN UNHEALTHY OR UNSIGHTLY CONDITION THROUGH NO FAULT OF THE OWNER, IN THE OPINION OF THE OWNER'S REPRESENTATIVE. REPLACEMENTS, IF REQUIRED, SHALL BE EQUAL IN ALL RESPECTS TO THE ORIGINAL SPECIFICATIONS.
8. CONTRACTOR SHALL MAINTAIN ALL PLANTINGS UNTIL FINAL ACCEPTANCE OF THE WORK. MAINTENANCE INCLUDES WATERING AS MANY TIMES AS NEEDED TO MAINTAIN PLANT VIGOR.
9. CONTRACTOR SHALL BE FAMILIAR WITH LOCATIONS OF PRE-EXISTING ABOVE-GROUND AND BELOW-GROUND UTILITIES, MECHANICAL EQUIPMENT AND OTHER FEATURES IN THE WORK AREA BEFORE PROCEEDING WITH WORK AND PROTECT FROM DAMAGE IN PHASE 2 WORK. CONFLICTS WITH PLANTINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
10. CONTACT "DIG SAFELY NEW YORK" 811 OR 1-800-962-7962 FOR LOCATION OF UNDERGROUND UTILITIES 72 HOURS PRIOR TO STARTING ANY EXCAVATION.
11. TREES NEED NOT BE STAKED EXCEPT IN LOCATIONS EXPOSED TO WINDS OR HEAVY PEDESTRIAN TRAFFIC, OR AS DIRECTED BY THE ARCHITECT. ALL STAKES AND GUYING MATERIALS MUST BE REMOVED AFTER ONE YEAR.
12. ALL PLANTINGS ARE TO BE INSTALLED BY A QUALIFIED LANDSCAPE CONTRACTOR.
13. CONTRACTOR SHALL CARRY WORKMAN'S COMPENSATION INSURANCE AND COMPREHENSIVE GENERAL LIABILITY INSURANCE. CERTIFICATES WILL BE REQUIRED PRIOR TO SIGNING CONTRACTS.
14. IF THERE IS A DISCREPANCY BETWEEN PLANT QUANTITY SHOWN ON THE PLAN AND PLANT LIST, THE PLANT LIST SHALL PREVAIL.
15. TEST PLANTING SOIL FOR PH AND NUTRIENTS AND ADJUST IN ACCORDANCE WITH AGRONOMY LAB RECOMMENDATIONS PRIOR TO PLANTING.
16. REFER TO TREE, SHRUB AND GROUNDCOVER PLANTING DETAILS.
17. ALL EXPOSED SOIL AREAS IN THE WORK AREA ARE TO BE SEEDED AND MULCHED UNLESS OTHERWISE SHOWN.

PLANT MATERIALS LIST

Key	Botanical Name	Common Name	Quant	Size	Planting Remarks
	TREES				
AG	Acer griseum	Paperbark Maple	3	6-7' HT	
BN	Betula nigra 'Heritage'	Heritage River Birch	4	2 1/2"-3" CAL.	TRIPLE-STEM
AP	Acer palmatum 'Sango-Kaku'	Coral Bark Maple	1	7'-8' HT	B&B, SPECIMEN QUALITY
SR	Syringa reticulata	Japanese Tree Lilac	5	2 1/2"-3" CAL.	B&B
TO	Thuja occidentalis 'Nigra'	Dark American Arborvitae	4	8'-10' HT	B&B
	SHRUBS				
CM	Cornus mas	Cornelian Cherry	1	30"-36"	
CA	Cotoneaster apiculata	Cranberry Cotoneaster	4	2 GAL	PLANT 6' OC
JCP	Juniperus chinensis Pfitzeriana	Pfitzer Juniper	5	5 GAL	
JHP	Juniperus horizontalis Plumosa	Andorra Juniper	10	5 GAL	
PJ	Pieris japonica 'Mountain Fire'	Mountain Fire Andromeda	4	#3 CONT.	PLANT 6' OC
SB	Spirea x bumalda 'Goldflame'	Goldflame Spirea	27	#3 CONT.	PLANT 36" O.C.
VR	Viburnum rhytidophylloides Alleg.	Alleghany Viburnum	4	3'-4'	PLANT 8' O.C.
	GROUNDCOVERS				
LM	Liriope muscari Variegata	Blue Lilyturf	600	#1 CONT.	PLANT 12" O.C.
VM	Vinca minor	Periwinkle	3500	1 Yr	
	ORNAMENTAL GRASSES				
CAK	Calamagrostis acutiflora Karl Foerster	Karl Foerster Reed Grass	24	2 GAL	PLANT 36" OC
PAH	Pennisetum alopecuroides 'Hameln'	Hameln Dwarf Fountain Grass	15	2 GAL	PLANT 24" O.C.
SSB	Schizachyrium scoparium 'The Blues'	Little Bluestem	23	#1 CONT.	PLANT 18" O.C.

NOTES:
1. All plants to be B&B or container grown unless otherwise indicated.
2. All plant beds shall receive 3" depth of specified mulch over fabric weed barrier unless otherwise shown.
3. Mulch shall be shredded bark mulch, black.

WOOD FENCING

1. WOOD FENCING PROPOSED ALONG PROPERTY LINE ADJOINING A RESIDENCE SHALL HAVE THE FINISHED SIDE OF FENCE FACING THE ADJOINING PROPERTY AND POSTS ON PROJECT SITE SIDE.

(9) CONCRETE & MASONRY PLANTER WALL
SCALE: NTS

(8) CONCRETE SIDEWALK INTEGRAL FLARE FOR LIGHT BOLLARD
SCALE: NTS

(4) SIGN PLACEMENT at PARKING STALL
SCALE: NTS

NOTES:
1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. OBTAIN LANDSCAPE ARCHITECT'S APPROVAL OF LAYOUT BEFORE INSTALLATION.
2. INSTALL IN SWEEPING, CURVILINEAR LAYOUT AS SHOWN ON PLAN AND WITH EVEN REVEAL ON OUTSIDE OF PLANT BED. COMPACT BACKFILL ON BOTH SIDES OF EDGING DURING INSTALLATION.
3. PRODUCT SIZE: 3/16" X 4" X 16' LENGTH, WITH INTERLOCKING JOINTS. STEEL STAKES: 15" LONG (2 STAKES AT EACH JOINT)
4. AS MANUFACTURED BY SURE-LOC CORPORATION, HOLLAND, MI., OR APPROVED EQUAL.

(10) STEEL LANDSCAPE EDGING
NTS

(2) PARKING STALL
SCALE: NTS

(3) HC PARKING STALL (TYP)
SCALE: NTS

NOTES:
1.) FENCE STYLE TO BE MONTAGE II MAJESTIC STEEL PICKET FENCE MANUFACTURED BY AMERISTAR FENCE PRODUCTS, INC, OR EQUAL.
2.) ~~USE SLEEVE IN BOREHOLE MOUNTING FOR TOP OF WALL~~ INSTALLATION.
3.) SUBMIT SHOP DRAWINGS.

(7) STEEL PICKET FENCE
SCALE: NTS

RFI 029

(1) BENCH LAYOUT
SCALE: NTS

NOTES:
1.) EACH BENCH SHALL BE BOLTED TO CONCRETE SLAB WITH FOUR (4) 1/2" DIAM. X 5" STAINLESS STEEL ANCHOR BOLTS.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUE FOR BID - PHASE 2
3	02/16/2024	PHASE 2 PERMIT ADDENDUM 1
2	01/24/2024	ISSUE FOR BID
1	01/16/2024	ISSUE FOR PERMIT

Sheet Title
LANDSCAPE PLAN & SITEWORK DETAILS

Job No. 2020-1005	Date 01/16/2024
Plan Scale 1" = 20'	Drawn / Checked FW/RLA

Sheet Number
L100

General Notes:

1 The purpose of these drawings is to show the structural work associated with the Harrison Recreation and Community Center in Harrison, NY.
2 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State.
3 The structural components have been designed for the following loads:
4 The structural components have been designed for the following loads:

A. Uniform live load:

Corridors	100 psf
First floor	
Garages	
Passenger vehicles	40 psf
Office buildings	
Corridors above first floor	80 psf
Lobbies and first-floor corridors	100 psf
Offices	50 psf + 15 psf partitions
Recreational uses	
Gymnasiums	100 psf
Roofs	
Roof areas that are not occupiable	20 psf
Roof areas used for assembly	100 psf
Vegetative and landscaped roofs	
Roof areas not intended for occupancy	20 psf
Stairs and exits	
All other	100 psf

Live load has been reduced on girders, columns and footings in accordance with the building code

B. Roof loads:

Snow:

Ground snow load, p_g	30 psf
Flat roof snow load, p_f	30 psf*
Exposure factor, C_e	1.0
Importance factor, I_s	1.1
Thermal factor, C_t	1.0
Rain loads: in accordance with Section 1611	
Roof live load:	20 psf min
Rainfall intensity (15-min. duration/100 year avg. interval)	2.90 in./hr.

*Note: the flat roof snow load shall be no less than 30 psf.

C. Wind design data:

Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16, Chapters 26, 27, 29 and 30, Directional Procedure

Risk category	III
Basic wind speed (3-second gust):	
Ultimate design wind speed, Vult	126 mph
Nominal design wind speed, Vasd	98 mph
Exposure	B
Internal pressure coefficient	0.18
"a" dimension for use with components and cladding	13.2 ft

Design wind pressure (Nominal design wind pressures) for components and cladding on building walls (use Zone 4 generally; use Zone 5 within "a" of building wall corners):

Surface pressure (psf)

Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq. ft.
Negative Zone 4	-17.5	-16.7	-15.8	-15.1
Negative Zone 5	-21.5	-20.1	-18.2	-16.7
Positive Zones 4 & 5	16.1	15.4	14.5	13.7

Design wind pressure (Nominal design wind pressures) for components and cladding on building roofs (for locations of zones 1, 2 and 3, refer to building code):

Surface pressure (psf)

Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq.ft.
Negative Zone 1	-28.1	-26.2	-23.8	-21.9
Negative Zone 1'	-16.1	-16.1	-16.1	-16.1
Negative Zone 2	-37.0	-34.6	-31.5	-29.1
Negative Zone 3	-37.0	-34.6	-31.5	-29.1
Positive Zone 1 & 1'	10.0	10.0	10.0	10.0
Positive Zone 2 & 3	16.1	15.4	14.5	13.7
Overhang Zones 1&1'	-25.4	-24.9	-24.3	-23.9
Overhang Zone 2	-34.3	-31.1	-27.0	-23.8
Overhang Zone 3	-34.3	-31.1	-27.0	-23.8

D. Earthquake design data:

Risk category	III
Seismic importance factor, I_e:	1.25
Mapped short period spectral response accelerations, S_s:	0.285g
Mapped 1 second period spectral response accelerations, S_1:	0.060g
Site class:	B
Design short period spectral response accelerations, S_{DS}:	0.171g
Design 1 second period spectral response accelerations, S_{D1}:	0.032g
Seismic design category:	B
Seismic force resisting system: structural steel systems not specifically detailed for seismic resistance	
Design base shear:	125 KIPS
Seismic response coefficient, C_s:	0.028
Response modification factor, R:	3
Deflection amplification factor, C_d:	3
Analysis procedure: Equivalent Lateral Force	

E. Other loads:

Concentrated loads:	
All floors except as noted (on 2-1/2 feet square)	1000 lbs
Stair treads and catwalks (on 4 inches square)	300 lbs
Garages with passenger vehicles (on 4 ½ inches square)	3000 lbs
All other roof members	300 lbs
Impact loads	
Loads increased as follows:	
Elevator machinery	100%
Hangers for floors or balconies	33%
Vehicle and wheel loads	30%

F. Special loads:

Retaining walls	
Lateral equivalent fluid pressure	32.5 pcf
Seismic load (h = height of wall)	5.5 h^2
Vertical live load surcharge	100 psf
Photovoltaic panel systems	10 psf
Machinery/Equipment: See Plans for Description/Location/Weight	

G. Guardrails (load applied in any direction):

Top rail concentrated	200 lbs
or	
Top rail uniform load	50 plf
Intermediate rail concentrated load	50 lbs

5 This structure has been designed to be self-supporting and stable after the work shown on these drawings has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.
6 This structure utilizes moment frames to provide lateral stability. Therefore, temporary bracing, guys, etc., must be maintained until all moment frames have been erected.
7 Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.
8 PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete and concrete -masonry construction), structural steel, cold-formed metal framing (wall framing), and steel deck, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication. Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the fabricator's own risk.
9 Testing and inspection of concrete, steel reinforcing bars (concrete and concrete masonry construction), concrete masonry, structural steel, steel deck, cold-formed metal framing, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections may be rejected solely on that basis.
10 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.
11 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.
12 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.
13 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "±" that are indicated on the drawings.
14 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.
15 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.
16 Do not scale drawings.

Codes and Standards References

1 Concrete:
Concrete work shall conform to all the requirements of ACI 301-10, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete".
2 Concrete masonry:
Concrete masonry work shall conform to the requirements of "Building Code Requirements for Masonry Structures, TMS 402-13" and "Specifications for Masonry Structures, TMS 602-13".
3 Structural steel:
Design, fabrication and erection of structural steel shall conform to the AISC 360-16 "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.
4 Steel deck:
Design, fabrication and erection of steel deck shall conform to the SDI NC-2010 "Standard for Noncomposite Steel Floor Deck", SDI RD-2010 "Standard for Steel Roof Deck", SDI C-2011 "Standard for Composite Steel Floor Deck - Slabs".
5 Cold formed metal framing:
Design, fabrication and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's AISI S100-16"Specification for the Design of Cold-formed Steel Structural Members", 2016.

Foundation notes:

1 Recommendations for the site preparation and earthwork within the perimeter of the proposed new structure, preparation of soil bearing surfaces, material specification and placement of structural backfill for support of slabs-on-grade are stated in the geotechnical engineering report prepared for this project by Skylands Engineering, LLC and dated 19 April, 2019. The recommendations of this report are project requirements.
2 The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material. The material shall have no stone greater than 2 inches in any one dimension and with less than 10 percent by weight passing a No.100 sieve.
3 Submittals to the engineer are required for structural fill and slab sub-base.

Concrete Notes:

1 All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", indicated in the code reference section of these general notes.
2 Concrete shall be the specified weight and develop a minimum compressive strength in 28 days as follows:

Location	Weight	Minimum Strength	Maximum W/C Ratio (or slump where indicated)
Slabs-on-grade -interior	Normal	4,000 psi	0.45
Slabs-on-metal-deck	Normal	3,500 psi	Slump: 4" +/- 1"

3 All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
4 Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above.
5 Portland cement shall be Type I or Type II and conform to ASTM C 150.
6 Other cementitious material such as flyash, ground granulated blast- furnace slag, or ground glass pozzolan may be blended with cement for use in the concrete mix. Flyash shall conform to ASTM C 618 and may replace cement in the following ranges for the 2 classes of flyash; Class C, 20 to 35%; Class F, 15 to 25%. Ground granulated blast- furnace slag shall conform to ASTM C 989 and may not exceed 50% of total weight of cementitious materials. Ground glass pozzolan shall conform to ASTM C 1866 and may replace cement in the range of 15% to 50% by weight.
7 For normal weight concrete: coarse aggregate shall be 3/4" and conform to ASTM C 33. Fine aggregate shall be manufactured or natural sand from the same source for the entire project and shall conform to ASTM C 33.
8 No admixtures are permitted without the engineer's written permission other than entrained air. Concrete exposed to the weather, such as that used in foundation walls, shall contain 5% +/- 1 1/2% entrained air. Concrete exposed to the weather and to de-icing compounds shall contain 6% +/- 1 1/2% entrained air. Do not use air entrainment admixture for interior normal weight concrete slabs.
9 Limit water-soluble, chloride-ion content in hardened concrete to the following percent by weight of cement: 1.00 for reinforced concrete that will be dry and protected from moisture, 0.30 for reinforced concrete that will exposed to moisture but not exposed to chlorides, 0.15 for reinforced concrete exposed to moisture and chlorides from deicing chemicals and salt/seawater, and 0.06 for prestressed (post-tensioned) concrete.
10 Reinforcing steel shall conform to ASTM A 615, Grade 60.
11 Welded wire fabric shall conform to ASTM A 1064 with a minimum yield strength of 65 ksi. Lap one mesh size at sides and ends, and wire together.
12 Vapor retarder shall be Stego Wrap (15 mil) vapor retarder by Stego Industries LLC and shall have a water vapor permeance after conditioning (ASTM E 1745, Paragraphs 7.1.2 – 7.1.5) that is less than 0.01 perms and meets the requirements of Class A. Place as per ASTM E 1643 and manufacturer's written instructions.
13 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete". Mechanical vibrators are to be used to consolidate the freshly cast concrete around the reinforcing and against form surfaces and to prevent the formation of air or stone pockets, honeycombing, pitting or planes of weakness. However, care must be used to avoid over vibration that can lead to aggregate segregation.
14 No welding of reinforcing will be permitted.
15 All lap splices shall be Class B, in accordance with ACI 318 indicated above.
16 Finish elevated floor slabs flat and level within a tolerance of +/- 1 /4 inches to the elevation indicated on the drawings. Provide additional concrete required due to formwork and floor framing deflection to achieve this finished top of slab elevation. The anticipated deflection for both beams and girders is 1 1/4". Design of floor framing members includes the additional concrete for this anticipated deflection.
17 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Floor and Slab Construction". Interior finish slab surfaces are to have a steel trowel finish. Surfaces of slabs forming the substrate for mud jobs are to have a clean textured (scratched) surface.
18 Expansion and isolation-joints:
Filler strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self expanding cork
Sealant at top of joint: Sika's Sikaflex 2c SL poly urethane elastomeric sealant. Provide cap to separate sealant from filler.
19 The curing and protection of concrete shall conform to the requirements of ACI 318 and ACI 308R, "Guide to Curing Concrete". Concrete slabs shall be protected from loss of surface moisture for not less than 7 days using a curing compound conforming to ASTM C 309 or constantly wetted burlap. Curing compounds shall be compatible with any intended flooring overlay. Do not install finish flooring until slab has adequately dried per the flooring manufacturer's specifications.
20 Cold weather concrete placement: If cold weather concreting conditions exist as defined by a period of more than three days when the average outdoor temperature, (high + low)/2, is less than 40 deg. F. the procedures outlined in ACI 306.1, "Standard Specification for Cold Weather Concreting" and ACI 306R, "Guide to Cold Weather Concreting" shall be utilized.
21 Hot weather concrete placement: Maintain concrete temperature below 90 deg. F. at time of placement and comply with ACI 301 and ACI 305R, "Guide to Hot Weather Concreting".
22 Accurately position, support, and secure reinforcement and anchors against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars. Provide bar supports as follows:

A. Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Do not "wet stick" reinforcement or anchors. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete.

23 Sizes and locations of all required embedded items, such as anchor bolts, piping sleeves, etc., for all trades shall be coordinated by the general contractor with other trades.
24 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and aggregates.

Concrete Masonry Notes:

1 All concrete masonry work shall conform to the requirements of the "Building Code Requirements for Masonry Structures,TMS 402" and the "Specifications for Masonry Structures, TMS 602, indicated in the code reference section of these general notes.
2 The compressive masonry strength, f'm, shall be 1,900 psi minimum. System components have been selected based on the unit strength method.
3 Concrete block shall be lightweight hollow load bearing masonry units conforming to ASTM C 90, with a minimum ultimate compressive strength of 1,900 psi on the net area of the units. Units shall be protected from moisture absorption.
4 Portland cement used in the mortar and grout shall conform to ASTM C 150. Masonry cement or mortar cement shall not be used.
5 Mortar shall be Type S conforming to the volumetric proportions set forth in ASTM C 270. Use 1 part Portland cement; 0.25 to 0.5 parts hydrated lime or lime putty; and aggregate proportioned to 2.25 to 3 times the sum of the separate volumes of cementitious materials (i.e. Portland cement plus lime). Provide aggregate in loose, damp condition. Add water to produce a workable mix.
6 Coarse grout used in pilasters and walls shall conform to the volumetric proportions set forth in ASTM C 476. Use one part Portland cement, 2.25 to 3 parts damp, loose sand, 1 to 2 parts 3/8" pea gravel. Add water to produce a flowable mix with an 8 to 11 inch slump.
Alternatively, fine grout may be used that conforms to the volumetric proportions set forth in ASTM C 476 using one part Portland cement, 2.25 to 3 parts damp loose sand and adding water to produce a flowable mix with an 8 to 11 inch slump.
7 Steel reinforcing bars shall conform to ASTM A 615, Grade 60. Reinforcing bars to be lapped 48 bar diameters at splices. Reinforcement to be secured against displacement at spacing not exceeding 200 bar diameters.
8 Joint (horizontal) reinforcement shall be hot-dipped galvanized W1.7 (9 gage) steel wire, ASTM A 951 with ASTM A 153 Class B-2 coating, Ladder type, by Hohmann & Barnard, Inc., or an approved equal. Place joint reinforcing in every second course (16"o.c.). Joint reinforcement shall be lapped 6 inches at splices.
9 Place units while mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extent that initial bond is broken after initial positioning.
10 Fully bed units in all shear walls including cross webs.
11 All cells with reinforcing bars or bolts shall be grouted solid.
12 Vertical cells to be grouted solid shall have a minimum clear opening of 3"x2-1/2". The entire perimeter of the cell shall be fully bedded with mortar.
13 Consolidate grout pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water absorption and settlement has occurred. Grout pours exceeding 5.33 feet are high lift pours and shall require cleanouts. High lift grouting shall not be used unless high lift grout procedures are submitted to the engineer for review and approved by the engineer.
14 The structural plans do not show the full extent of masonry lintels that may be required for doors, windows, ducts, louvers, etc. For those openings that require masonry lintels and are not shown on the structural plans, see architectural drawings for location and size of openings. Do not scale openings. For masonry lintel size for corresponding masonry opening size, see "Typical Masonry Lintels in Non-Load Bearing Walls Detail". Note, if architectural drawings do not indicate a masonry lintel for a particular opening, then provide a steel lintel as per lintel notes, unless otherwise directed by the engineer.
15 Masonry opening lintels have been designed on the basis of arching action of the completed wall. Lintels require temporary support until the mortar has achieved the specified strength.
16 Cover the tops of all masonry construction to protect against precipitation.
17 Masonry shall not be constructed in temperatures below 40 F. Provide a heat source and protection as required to maintain temperature above 40 F in accordance with ACI 530.1.
18 Hot weather construction techniques shall be in accordance with ACI 530.1 and shall be implemented when the ambient air temperature exceeds 100 F, or 90 F if the wind speed exceeds 8 mph.
19 Unless otherwise shown on architectural or structural drawings provide vertical control joints through concrete masonry unit walls for full wall height as follows:
A Distance between joints should not exceed the lesser of length to height ratio of 1.5, or 25 feet
B At changes in wall height
C At changes in wall thickness – including pipe and duct chases and pilasters
D At and above expansion joints in foundations and floors
E At and below expansion joints in roofs and floors that bear on the wall
F For openings, do not locate control joints within 32 inches of openings
G Adjacent to corners of walls or at wall intersections within a distance equal to half the control joint spacing.
20 Submittals to the engineer are required for certificates of compliance for block grade and strength, grout, mortar, and reinforcing bars prior to delivery to the site.

Connections to Existing Masonry or Hardened Concrete:

1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete and masonry elements are to be installed in strict accordance with the manufacturer's instructions for drilling and preparation of holes, for spacing and edge distance requirements, and for the utilization of supplemental components for the anchoring systems such as screen tubes, doweling adhesives, etc.
2 For connections to hardened concrete and masonry, contractor must locate the position of existing reinforcing bars with an R-meter or pilot holes prior to installation of anchors. Notify engineer of field conflicts prior to installation.
3 Connections to hardened concrete shall be made with anchors conforming to ACI 318, as specified in the code reference section of these general notes, for cracked concrete, and Chapter 19 of the state building code indicated at the beginning of these general notes.
A. Mechanical anchors shall be either
i. Hilti "Kwik Bolt TZ" expansion anchor.
ii. Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments)
iii. Simpson "Strong Bolt 2" expansion anchor
iv. Simpson "Titen HD" screw ancho, zinc-plated or galvanized (use only in permanently dry, interior non-corrosive environments)
v. Dewalt "Power-Stud + SD2" expansion anchor.
vi. Dewalt "Power-Stud + SD4/SD6", Type 304/316 SS expansion anchor
vii. Dewalt "Screw-Bolt+" screw anchor, zinc-plated or galvanized (use only in permanently dry, interior non-corrosive environments)

Size, embedment, spacing and edge distance of anchors shall be as indicated on the drawings.

B. Adhesive anchor rods or reinforcing bars shall be installed in rotary hammered drilled holes with carbide drill bits using one of the following adhesive anchoring systems:
i. Hilti "HIT-HY 200 safe set adhesive anchoring system with Hilti "HAS" ASTM F1554, Grade 36 anchor rods.
ii. Simpson "AT-XP" adhesive anchoring system for base material temperatures between 14 degrees and 80 degrees or Simpson "Set-3G" adhesive anchoring system for temperatures above 40 degrees, with Simpson "RFB" ASTM F1554 Grade 36 anchor rods.
iii. Dewalt "AC200+" two part adhesive, cold temperature cure with ASTM F1554, Grade 36 anchor rods. Reinforcing bars shall conform to the requirements of the Concrete General Notes.
iv. Reinforcing bars shall conform to the requirements of the Concrete General Notes.

Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4 "Qualification of Post-Installed Adhesive Anchors in Concrete" and ICC-ES (ICC Evaluation Service) "Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements" (AC308) for cracked concrete and seismic applications.

Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi and an in-service temperature in accordance with ACI 355.4 Temperature Category B.

Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions (MPII
Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program or equal.

Unless otherwise noted on the drawings, embed anchor rods and reinforcing bars into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 inches, measured from the edge of the concrete to the centerline of the anchor/reinforcing bar. Increased embedment depths or edge distances may be required at certain locations, see plans and details.

4 Connections to grout filled concrete masonry shall be made with either 1) Hilti "HAS" ASTM F1554 Grade 36 anchor rods using Hilti "HIT HY270" masonry adhesive anchoring systems or 2) Simpson "RFB" ASTM F1554 Grade 36 anchor rods using Simpson "Set-XP" masonry adhesive anchoring system or 3) ASTM F1554 Grade 36 anchor rods using Dewalt AC100+ Gold masonry adhesive anchoring system.
A. Unless otherwise noted on the drawings, embed anchor rods into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.

Structural Steel Notes:

1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", indicated in the code reference section of these general notes.
2 Materials:

Wide flange shapes:	ASTM A 992 Grade 50
American standard shapes, angles,	
Plates and bars:	ASTM A 36
Structural steel tubing,	
Rectangular and square	ASTM A 500, Grade C (Fy=50 ksi)
Structural steel tubing,	
Round:	ASTM A 500, Grade C (Fy=46 ksi)
Bolts	ASTM F3125, Grade A 325
Anchor rods	ASTM F 1554, Grade 36
Welding electrode	ASTM E 70xx, low hydrogen
Shear connectors	3/4" diam. ASTM A 108

3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.
4 High strength bolts: install high-strength bolts according to Research Council on Structural Connections' (RCSC's) "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.
Joint type: Snug tightened unless otherwise noted.
5 Beam reactions are indicated on the plans, refer to the typical beam legend for reaction designations. Beams with shear reactions not shown shall be designed for a 12 kip reaction (service loads for allowable stress design).
6 The fabricator is responsible for designing connections for the reactions shown on these plans and submitting these design calculations, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation, for review by the structural engineer of record through the architect. The reactions shown are "service" loads for "Allowable Stress Design" (ASD). Connections may be designed for these values using the conventional "Allowable Stress Design" method, as specified in the AISC Steel Construction Manual indicated in the code reference section of these general notes.
7 For moment connections, notch-tough welding electrodes, complying with AWS requirements, shall be used for full penetration welds. Also for full penetration welds, provide welding tabs at beam flange edges to allow welding of full beam width.
8 For moment connections, backing bars and weld tabs for welds need not be removed, unless testing agency requires removal to facilitate testing and inspection or weld tabs interfere with architectural finishes.
9 Full or partial penetration groove welds shall be ultrasonic tested, as indicated in the Statement of Special Inspections, and shall be detailed to allow for such ultrasonic testing.
10 Stud shear connectors shall be field-welded in accordance with AWS D1.1.
11 Where slotted hole connections are shown, nuts shall be fastened snug tight, then untightened by one-half turn. Peen threads to prevent further loosening of the nut.
12 Grout shall be nonmetallic, shrinkage-resistant grout conforming to ASTM C 1107, Grade B or C, factory-packaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
13 Structural steel shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 3 for Power Tool Cleaning (except for steel exposed to weather). and painted with the specified primer.
14 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required. Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.
15 Provide bitumastic protection coating for all structural steel below grade.
16 Continuous members, where indicated on the drawings, shall require either 1) the member to be furnished as one piece, or 2) if individual pieces are to be provided, then they shall be connected by either welding or bolting to develop the full strength of the continuous member.
17 Split cantilevers for steel beams shall be designed for the full moment capacity of the beam unless otherwise noted.
18 Unless otherwise noted, at cantilever beam connection to top of columns, provide welded 3/4" cap plate with (4)-3/4" diameter A 325 bolts on beam gage. Provide 1/2" minimum fitted stiffeners welded at both sides of beam web. Locate stiffeners over column flange on cantilever side.
19 Provide 1/4" closure plates with seal weld at ends of all HSS members.
20 The design of composite floor beams is based on unshored construction conditions.
21 Fabricator shall hold a current AISC certification for "Certified Building Fabricator (BU)", (formerly known as "Standard for Steel Building Structures (STD)".)
22 For miscellaneous steel, see architectural drawings.
23 Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc.
24 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, washers, and weld filler material prior to the fabrication of any steel
25 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

Steel Deck Notes:

1 Steel deck shall be designed, fabricated, and erected in accordance with the Steel Deck Institute specification indicated in the code reference section of these general notes.
2 Composite formed steel floor deck to be 2" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G60 coating), United Steel Deck Type Lok-Floor, composite floor deck as manufactured by Canam Steel Corporation, or an approved equal.
3 Formed steel roof deck to be 1-1/2" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G60 coating), wide rib, United Steel Deck "B" Deck profile, as manufactured by Canam Steel Deck, Incorporated or an approved equal at locations indicated on plans.
4 Formed acoustic steel roof deck at the Gymnasium and Fitness Center to be 2 1/2" deep, 20 gage (uncoated steel thickness 0.0358") galvanized, Epic Toris A deck profile with flat bottom, as manufactured by Epic Metals or an approved equal.
5 The steel deck shall be supplied in minimum lengths as required to provide a "3-span" condition. Column closures, end closures, z-closures, cover plates, roof sumps, and closures at penetrations of same material, finish, and thickness as deck and all other accessories necessary for a complete installation are required. Provide additional reinforcement and closure pieces at edges and openings as required for strength, continuity of deck, and support of other work.
6 Composite formed steel floor deck shall be welded to supporting steel with 5/8" diameter puddle welds at 12" on center. Intermediate side connections shall be made with #10 self tapping screws at a maximum spacing of 3'-0" on center.
7 Formed steel roof deck shall be welded to supporting steel with 5/8" diameter puddle welds at all edge ribs plus a sufficient number of interior ribs to limit the spacing between adjacent points of attachment to 6" on center..Intermediate side connections shall be made with No.10 self-tapping screws at mid-span or 3'-0" on center, whichever is smaller. Deck perimeter edge connections between supports (parallel to supports) shall be made with No.12 self-tapping screws at mid-span or 3'-0" on center, whichever is smaller. Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches. End laps of sheets shall be a minimum of 2" and shall occur over supports.
8 Steel deck must be protected before and after erection and all debris cleaned from its surface where concrete will be poured or roofing is to be placed.

Lintel Notes:

1 Unless otherwise noted, for lintels over doors, windows, ducts, and miscellaneous openings in non-bearing 4", 8" and 12" CMU walls and brick walls use for each 4" of masonry:

Angle size	Max. M.O.	Bearing each end
3 1/2" x 3/8" flat plate	2'-0"	6"
3 1/2" x 4" x 5/16" (LLV)	3'-6"	6"
3 1/2" x 5" x 5/16" (LLV)	5'-0"	6"
3 1/2" x 6" x 5/16" (LLV)	6'-0"	8"
3 1/2" x 6" x 3/8" (LLV)	8'-0"	8"

2 Openings in non-bearing walls masonry where no specific lintels or lintel sizes are indicated shall have 8" bearing at each end and shall have the following sizes:

Max. M.O.	Wall thickness	Lintel size
9'-0"	8"	W8x24
9'-0"	9"-13"	W8x31 + 5/16" plate
12'-0"	8"	W8x28
12'-0"	9"-13"	W8x35 + 5/16" plate

Plates indicated in above lintels shall have a width 1" less than the wall thickness and a length 1" less than the masonry opening.
Provide 7 1/2" x 5/8" x 0'-7 1/2" bearing plates on 3/4" grout bed with (2)-5/8" diameter x 6" long welded anchor studs at 3" o.c. unless otherwise noted. Field weld bottom flange of beam to bearing plate with 1/4" weld at each side of flange.
3 Fill the first two courses directly under bearing with grout for 16" length.
4 See architectural and mechanical drawings for size and location of openings.
5 Lintels over adjacent openings with piers between less than 2'-8" wide shall be continuous over piers. Masonry units of such piers shall be filled with grout for full story height.
6 Connect lintel to structural steel columns when there is less than 16" of masonry between the masonry opening and the outermost face of column.
7 Lintels supporting exterior masonry shall be hot-dipped galvanized. See structural steel notes.
8 Lintels for openings in walls: These plans do not show the full scope of steel lintels required for new wall openings for doors, windows, ducts, louvers, etc.. For masonry opening size and location of all wall openings, see architectural and mechanical drawings. Do not scale openings. For steel lintel size for corresponding masonry opening size, see notes, above, unless otherwise noted on plans.

Cold-Formed Metal Framing Notes:

1. Design, fabrication, and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's "Specification for the Design of Cold-formed Steel Structural Members", indicated in the code reference section of these general notes.
2. All studs and/or joists and accessories shall be of the type, size, steel thickness and spacing shown on the drawings. Studs, tracks, bracing and bridging shall be manufactured per ASTM C 955.
3. All studs, joists and accessories shall be formed from steel that conforms to the requirements of ASTM A 1003 with a yield as follows:
i. 16 ga.(0.054") or heavier 50 ksi
ii. 18 ga (0.043") or lighter 33 ksi
4. All studs, joists and accessories shall be galvanized with a minimum G-60 coating.
5. Touchup paint: Immediately after fabrication and erection, clean welds, fasteners, and damaged galvanized surfaces. Touchup and repair surfaces with galvanized repair paint in accordance with ASTM A 780, applied by brush or spray to provide minimum dry film thickness of 2.0 mils.
Cold framed metal sizes and attachments shall not be less than those indicated on the contract documents.
6. Where framing systems are not shown on the drawings, provide delegated design of framing systems for the design loads indicated in the contract documents. Provide for movement of framing members without damage or overstressing, sheathing failure, connection failure, undue strain on fasteners and anchors, or other detrimental effects when subject to a maximum ambient temperature of 120 deg F. Design framing system to maintain clearances at openings, to allow for construction tolerances, and to accommodate live load deflection of primary building structure for an upward and downward movement of L/360 for floors and L/240 for roofs.
7. Connections shall be accomplished with self-driving screws or welding so that the connection meets or exceeds the design loads required at that connection.
8. All connections shall be made using a minimum of four (4) No. 10-16 screws, unless otherwise shown on drawings.
9. Screw spacing and edge distance shall not be less than 1".
10. Minimum connection angle thickness shall be 16 gage, but no thinner than the material of the members that are being connected,
11. Welding shall conform to Structural Welding Code D1.1 and Specification for Welding Sheet in Structures E1.3 of the American Welding Society and be performed by a certified welder in accordance with AWS standards.
12. Temporary bracing shall be provided and left in place until work is permanently stabilized.
13. Joists shall be located directly over bearing studs or a load distribution member shall be provided to transfer loads.
14. All built-up framing members shall be of welded construction, unless otherwise noted.
15. Avoid holes at ends of members. However, should holes occur, provide additional reinforcing at the ends of the member where holes occur, unless otherwise noted.
16. Provide lateral blocking, bridging, and web stiffeners for vertical and horizontal framing members, and other framing members as required and in accordance with manufacturer's specifications or recommendations, unless indicated otherwise on the drawings.
17. Track: 16 gage minimum securely anchored to adjacent structure or member.
18. All framing components: cut squarely or at an angle to fit squarely against abutting members. All members: held firmly in position until properly fastened, erect member level, plumb, and true to line and to dimensions and elevations indicated.
19. Studs: Seated squarely in the track with the stud web and flanges abutting the track web, and securely attached to the flanges or web of both tracks.
20. Splices in studs and other framing components: Not permitted.
21. Shape designations and section properties are based on the universal system for light gage steel framing members. For example, "600S162-54" denotes 6" deep, 1-5/8" wide flange, stud, 54 mils(=16 gage) thickness.
22. Submittals to the engineer are required for certificates of compliance for framing members (studs, joists, tracks, etc.), screws, and accessories (connection clips, stiffeners, etc.) prior to delivery to the site.
23. Shop drawings: Show layout, spacing, sizes, thickness, material specification, and types of cold-formed metal framing. Show fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.

Regarding delegated design of cold formed framing, the cold-formed metal engineer and fabricator shall design only members and connections that are not shown on the drawings and shall submit calculations of all designs, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation. They shall not design any changes to the cold-formed metal framing, including sizes, gage, spacing and connections, that are indicated on the drawings.

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Key Plan

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No.	Date	Issue
4	2024-10-09	CONFORMED SET
3	2024-06-05	ISSUED FOR BID
2	2024-02-16	PHASE 2 PERMIT ADDENDUM 1
1	2024-01-16	ISSUED FOR PERMIT

Sheet Title

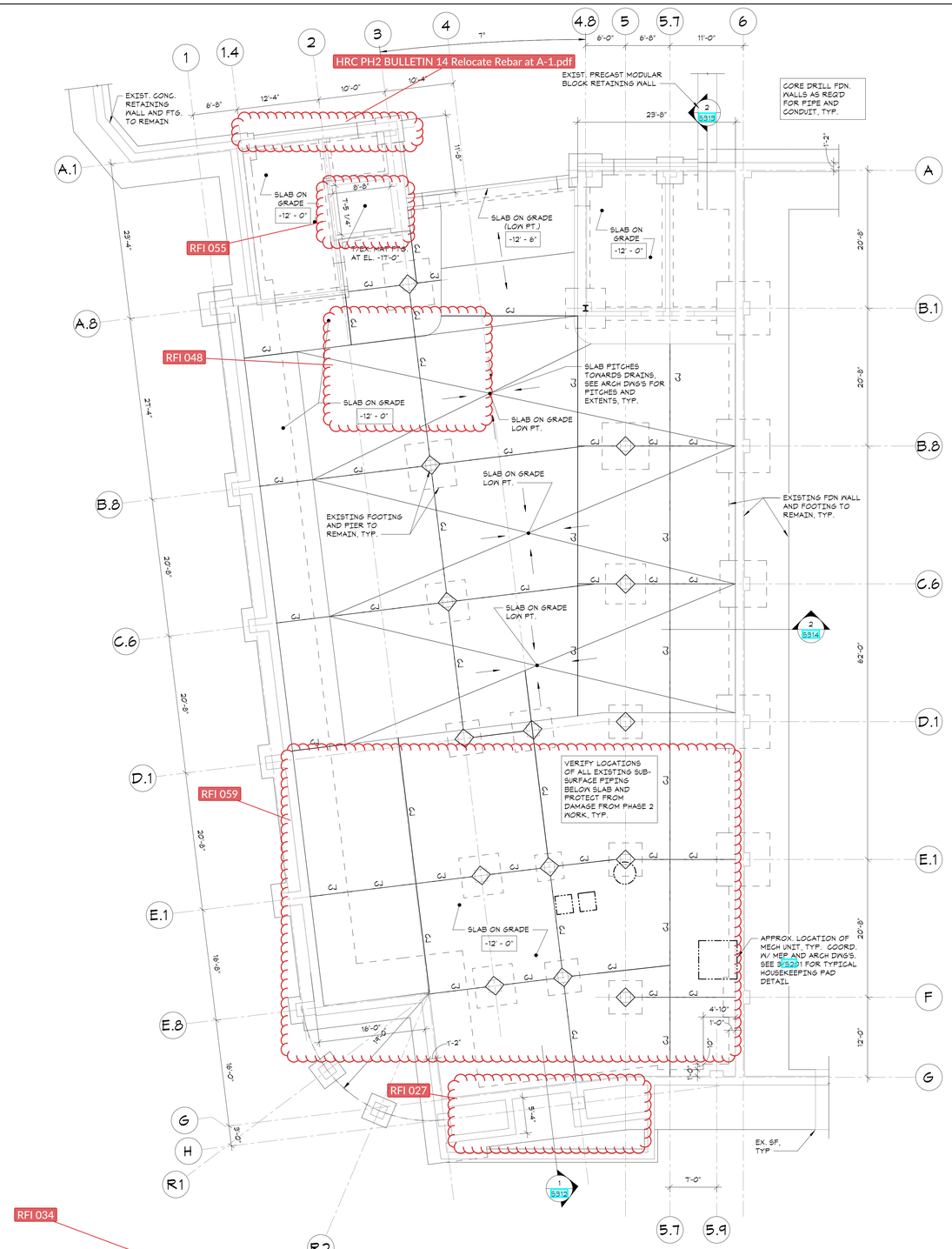
RFI 100

GENERAL STRUCTURAL NOTES

Job No.	Date
20029.00	2020-06-01
Scale	Drawn / Checked
AS NOTED	JM / EM

Sheet Number

S001



LOWER LEVEL SLAB-ON-GRADE PLAN

1/8"=1'-0"

NORTH:

- TOP OF PARKING LEVEL = -12'-0" FROM FIRST FLOOR DATUM.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W2.1xW2.1 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/S201
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE "TYPICAL DETAIL AT EXTERIOR DOORS".
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

LEGEND:

- +/-... INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAIL".

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3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

Sheet Title

LOWER LEVEL SLAB-ON-GRADE PLAN

Job No.	Date
20029.00	2020-06-01
Scale	Drawn / Checked
AS NOTED	JM / EM

Sheet Number

S100

FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN

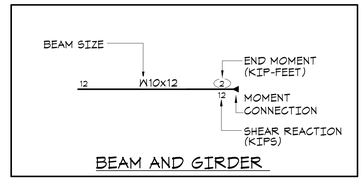
1/8"=1'-0"

NORTH:

- TOP OF FIRST FLOOR = DATUM ELEVATION 0'-0" = TOPOGRAPHICAL ELEVATION = 77.55'
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: -0'-2 1/2" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TYPICAL SLAB-ON-GRADE CONSTRUCTION: 6" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W2.1xW2.1 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE 1/S201
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = -0'-5 1/2" UNLESS OTHERWISE NOTED THUS [+/-X'-XX"] FROM ELEVATION -0'-5 1/2".
- FLOOR CONSTRUCTION: 5-1/2" COMPOSITE CONCRETE SLAB = 3-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W1.4xW1.4 WWF AS PER 'TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL" AND GENERAL NOTES.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- FOR FOUNDATION CONDITION AT EXTERIOR DOORS, SEE 'TYPICAL DETAIL AT EXTERIOR DOORS'.
- COORDINATE ALL PITS, TRENCHES, POCKETS, BRICK SHELVES, SLEEVES, PENETRATIONS AND INSERTS IN CONCRETE WALLS AND SLABS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.

LEGEND:

- 'NOTE A" INDICATES CONTINUOUS L4x4x3/8 SLAB SUPPORT, ANCHORED TO FOUNDATION WALL WITH 1/2" DIAMETER HILTI KWIK HUS-EZ ANCHORS AT 2'-0"o.c., HAVING 4 1/4" MINIMUM EMBEDMENT.
- "BP" INDICATES EXISTING BEAM BEARING POCKET. SEE DETAIL 9/S301 FOR BEARING PLATE AND ANCHOR INFORMATION.
- "AR-#" INDICATES BASE PLATE SIZES AND DIMENSIONS, SEE 1/S305.
- "CA" AND "CBL" INDICATE COLUMN ABOVE AND COLUMN BELOW RESPECTIVLEY, SEE COLUMN SCHEDULE ON DRAWING S303.
- +/-... INDICATES TOP OF CONCRETE SLAB ELEVATION FROM TOP OF FIRST FLOOR DATUM ELEVATION. MAINTAIN FULL SLAB THICKNESS AT SLOPED AND DEPRESSED AREAS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE 'TYPICAL SLAB ON GRADE DETAIL".



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No.	Date	Issue
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

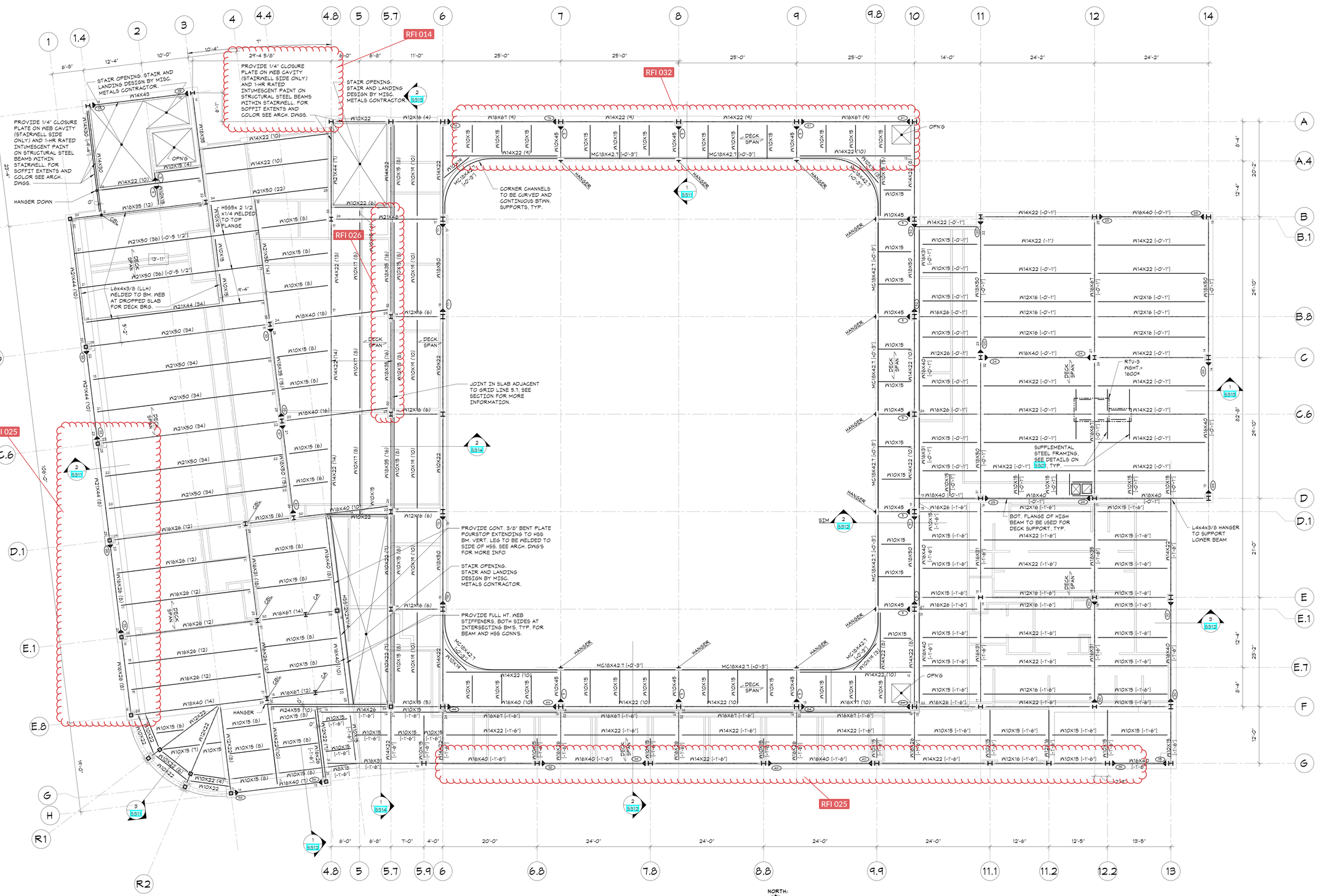
Sheet Title

FIRST FLOOR FRAMING AND SLAB-ON-GRADE PLAN

Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

S101

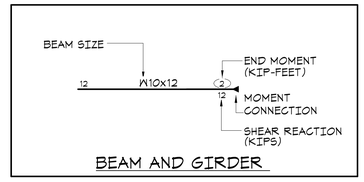


SECOND FLOOR & LOW ROOF FRAMING PLAN

1/8"=1'-0"

NORTH:

- TOP OF SECOND FLOOR ELEVATION: 14'-0" ABOVE DATUM.
- TOP OF SLAB AT MULTI-USER TOILET ROOMS ELEVATION: 13'-11" ABOVE DATUM. SEE ARCHITECTURAL DRAWINGS FOR EXTENTS.
- TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 13'-7 1/2" UNLESS OTHERWISE NOTED THUS (+/-X'-XX") FROM ELEVATION 14'-0" (FLOOR ELEVATION).
- FLOOR CONSTRUCTION AT SECOND FLOOR AND TERRACE: 4-1/2" COMPOSITE CONCRETE SLAB = 2-1/2" NORMAL WEIGHT CONCRETE ON 2" COMPOSITE DECK REINFORCED WITH 6x6-W1.4xW1.4 WWF AS PER "TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL" AND GENERAL NOTES.
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FLOOR PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- "CA" AND "CBL" INDICATE COLUMN ABOVE AND COLUMN BELOW, RESPECTIVELY. SEE COLUMN SCHEDULE ON DRAWING S303.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.



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2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

Sheet Title

SECOND FLOOR & LOW ROOF FRAMING PLAN

Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

S102

BULLETIN 07 Elevator Steel Revision.pdf

RFI 050

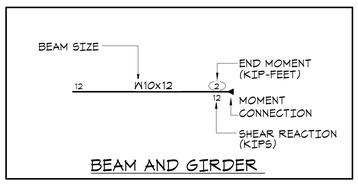
RFI 078

ROOF FRAMING PLAN

1/8"=1'-0"

NORTH:

- GYMNASIUM ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) AT LOW POINT = 31'-2 1/2" UNLESS OTHERWISE NOTED THUS [+/-X'-XX"] FROM ELEVATION 31'-2 1/2".
  - FOR STEEL ELEVATION NOTED THUS [*] ALIGN BEAM BOTTOM FLANGE WITH BOTTOM FLANGE OF TRUSS BOTTOM CHORD.
- SOUTH ROOF TOP OF STEEL ELEVATION (UNDERSIDE OF DECK) = 26'-1" UNLESS OTHERWISE NOTED THUS [+/-X'-XX"] FROM ELEVATION 26'-1".
- ROOF DECK CONSTRUCTION: SEE GENERAL NOTES ON SHEET S001.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- COORDINATE SIZE AND LOCATION OF ALL ROOF PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL ROOF PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- SEE GENERAL NOTES ON SHEET S001 FOR ADDITIONAL INFORMATION.



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Structural Engineers
93 Lake Avenue, Suite 201
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CONSTRUCTION DOCUMENTS

Key Plan

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Professional Seal

No.	Date	Issue
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

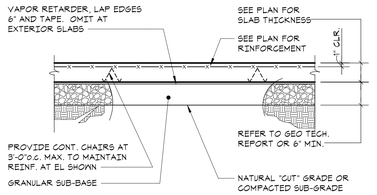
Sheet Title

ROOF FRAMING PLAN

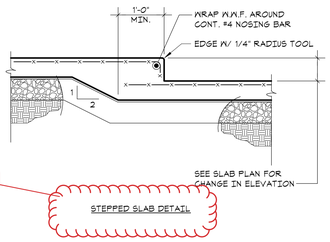
Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

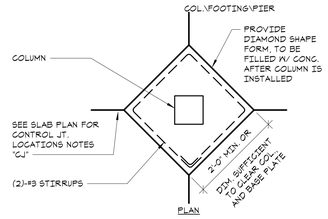
S103



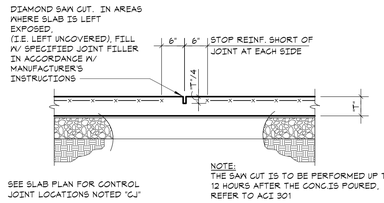
SLAB ON GRADE DETAIL



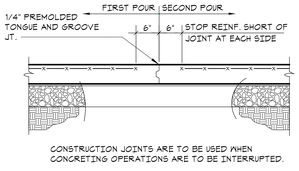
STEPPED SLAB DETAIL



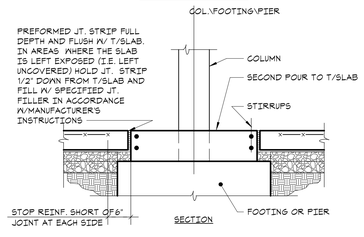
SLAB AT COLUMN DETAIL



CONTROL JOINT DETAIL

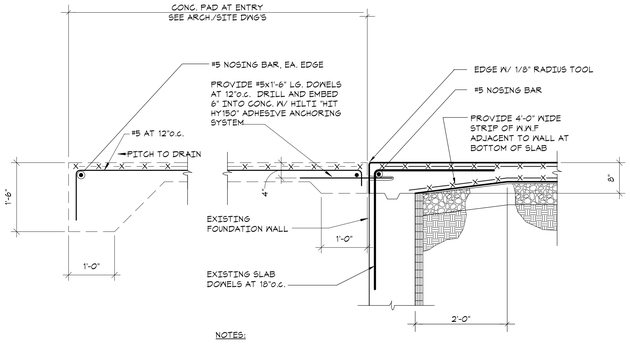


SLAB ON GRADE CONSTRUCTION JOINT DETAIL



SLAB AT COLUMN DETAIL

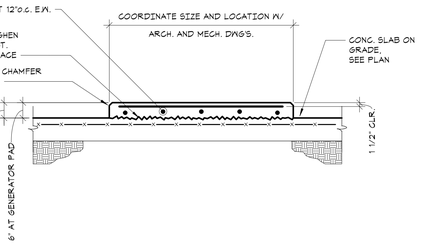
1 TYPICAL SLAB ON GRADE DETAIL
NO SCALE



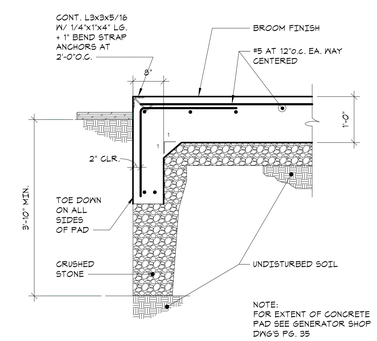
NOTES:

- SEE APPROPRIATE SECTION FOR REMAINDER OF FOUNDATION INFORMATION NOT REPEATED HERE.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR DOORS.

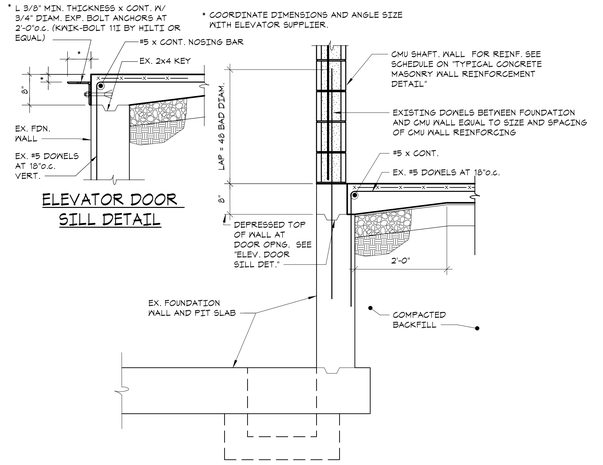
2 TYPICAL DETAIL AT EXTERIOR DOORS
NO SCALE



3 HOUSEKEEPING PAD DETAIL
NO SCALE



4 EQUIPMENT PAD DETAIL
NO SCALE



5 TYPICAL ELEVATOR PIT DETAIL
NO SCALE

HARRISON RECREATION & COMMUNITY CENTER

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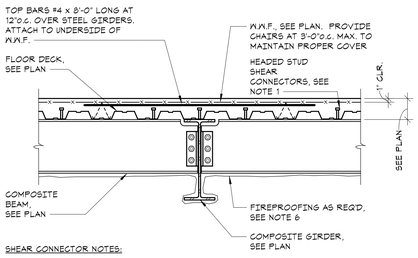
Sheet Title

SLAB ON GRADE DETAILS

Job No.	Date
20029.00	12/19/23
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

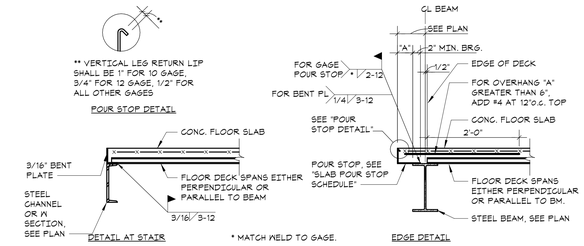
S201



SHEAR CONNECTOR NOTES:

1. HEADED STUD SHEAR CONNECTORS SHALL BE 3/4" DIAM. x LENGTH (AFTER INSTALLATION) AS FOLLOWS:
   - FOR 1 1/2" DECK, STUD LENGTH = 3"
   - FOR 2" DECK, STUD LENGTH = 3 1/2"
   - FOR 3" DECK, STUD LEGTH = 5"
2. SEE PLAN FOR NUMBER REQUIRED. BEAMS INDICATED (XX) REQUIRE XX NUMBER OF STUDS UNIFORMLY SPACED ALONG THE LENGTH OF THE BEAM.
3. BEAMS AND GIRDERS INDICATED (XX-X-XX) REQUIRE XX NUMBER OF STUDS UNIFORMLY SPACED BETWEEN THE END OF THE BEAMS AND GIRDERS AND THE FIRST SUPPORTED BEAM AND X NUMBER OF STUDS BETWEEN THE TWO SUPPORTED BEAMS. SEE PLANS FOR ADDITIONAL SPACING REQUIREMENTS.
4. WHEN THE QUANTITY OF STUDS EXCEEDS THE QUANTITY OF AVAILABLE RIBS OR THE REQUIRED MINIMUM SPACING, THEN THE EXCESS STUDS SHALL BE PLACED IN PAIRS STARTING AT EACH END OF THE BEAM.
5. MINIMUM STUD SPACING SHALL BE 4 1/2" ALONG THE LENGTH OF THE BEAM AND 3" ACROSS WIDTH OF THE BEAM FLANGES.
6. FLOOR CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FIRE RESISTANCE RATING AND THE UL DESIGN NO. AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

1 TYPICAL COMPOSITE BEAM FLOOR CONSTRUCTION DETAIL
NO SCALE

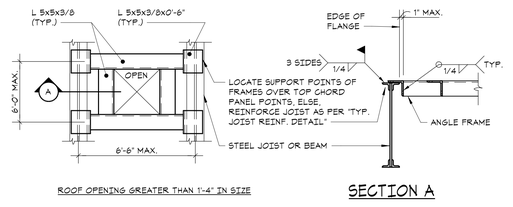


SLAB POUR STOP SCHEDULE

SLAB THICKNESS	"A" DIMENSION (OVERHANG)	POUR STOP
2 1/2" TO 5 1/2"	0" UP TO 2"	18 GA.
	GREATER THAN 2", UP TO 4"	16 GA.
	GREATER THAN 4", UP TO 6"	14 GA.
	GREATER THAN 6", UP TO 9"	12 GA.
	GREATER THAN 9", UP TO 11"	10 GA.
	GREATER THAN 11", UP TO 1'-4"	5/16" BENT PLATE
5 3/4" TO 6 1/2"	0" UP TO 2"	18 GA.
	GREATER THAN 2", UP TO 4"	14 GA.
	GREATER THAN 4", UP TO 8"	12 GA.
	GREATER THAN 8", UP TO 10"	10 GA.
	GREATER THAN 10", UP TO 1'-4"	5/16" BENT PLATE

NOTE: POUR STOPS INDICATED IN THIS DETAIL ARE TO BE USED UNLESS OTHERWISE DETAILED.

2 TYPICAL SLAB EDGE DETAILS
NO SCALE

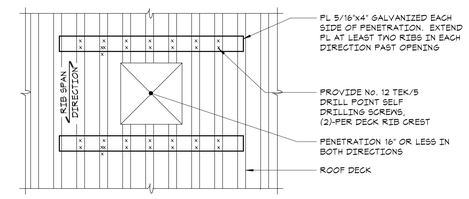


ROOF OPENING GREATER THAN 1'-4" IN SIZE

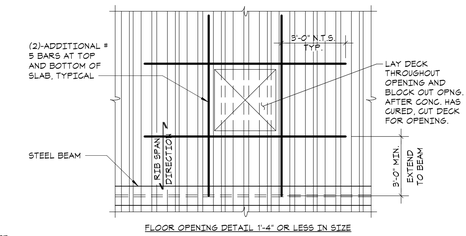
SECTION A

FLOOR OPENING GREATER THAN 1'-4" IN SIZE

SECTION C



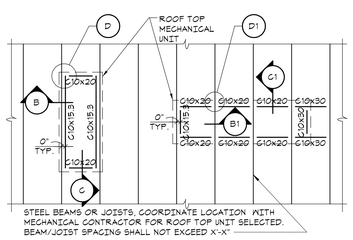
ROOF OPENING DETAIL 1'-4" OR LESS IN SIZE



FLOOR OPENING DETAIL 1'-4" OR LESS IN SIZE

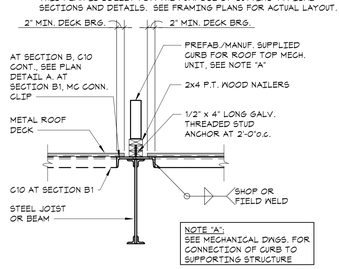
NOTE:
SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL ROOF/ FLOOR PENETRATIONS. DO NOT SCALE OPENINGS.

3 TYPICAL ROOF/FLOOR OPENING DETAIL
NO SCALE

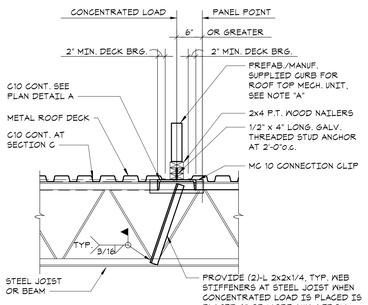


PLAN DETAIL A

THIS PLAN IS SOLELY FOR THE PURPOSE OF CUTTING TYPICAL SECTIONS AND DETAILS. SEE FRAMING PLANS FOR ACTUAL LAYOUT.

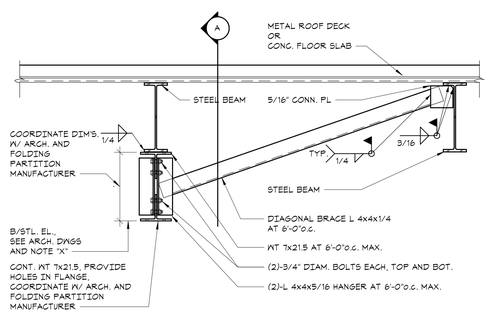


SECTION B, B1



SECTION G, G1

4 TYPICAL ROOF TOP UNIT CURB DETAIL
NO SCALE

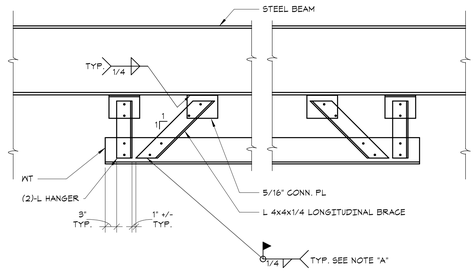


SECTION

NOTE "X":
WHERE BOTTOM OF STEEL ELEVATION REQUIRED FOR SUPPORT OF THE FOLDING PARTITION, AS INDICATED ON THE ARCH. DRAWINGS, IS SUCH THAT IT IS AT THE BOTTOM OF THE STEEL BEAM, THEN OMIT THE WT-MEMBERS AND DOUBLE ANGLE HANGERS AND PROVIDE HOLES IN THE MEMBERS AND DOUBLE ANGLE HANGERS AND PROVIDE HOLES IN THE BOTTOM FLANGE OF THE STEEL BEAM. CONNECT BRACE TO TOP OF BOTTOM FLANGE OF STEEL BEAM WITH PLATES AND WELD SAME AS INDICATED AT ADJACENT BEAM.

FOR LONGITUDINAL BRACING REQUIREMENTS, SEE DETAIL "A".

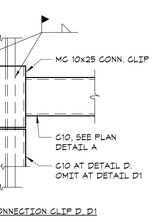
8 FOLDING PARTITION SUPPORT DETAIL
NO SCALE



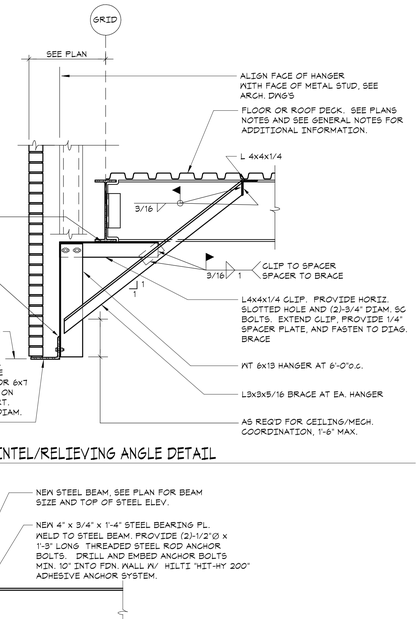
LONGITUDINAL BRACING DETAIL (A)

NOTE:
- PROVIDE LONGITUDINAL BRACE AT EACH END OF WT SUPPORT.
- DIAGONAL BRACE NOT SHOWN FOR CLARITY.

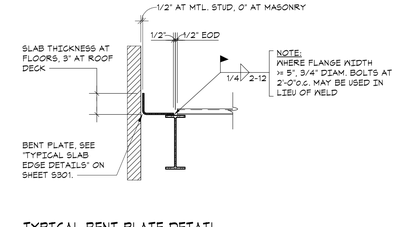
NOTE "A":
IN LIEU OF WELDING, (2)-3/4" DIAM. A325 BOLTS MAY BE USED AT CONNECTIONS.



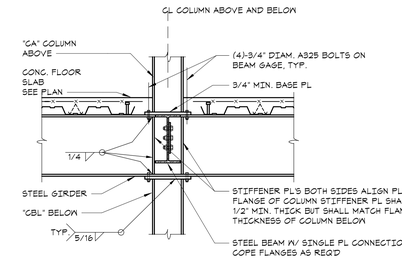
PLAN DETAIL AT CONNECTION CLIP D, D1



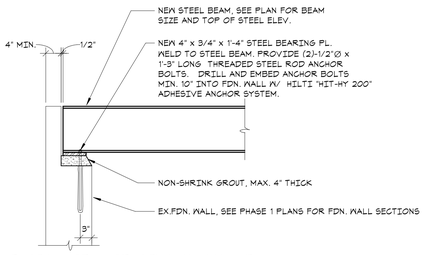
5 TYPICAL HUNG LINTEL/RELIEVING ANGLE DETAIL
NO SCALE



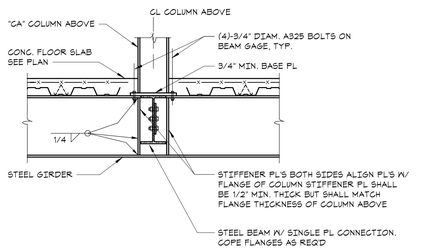
6 TYPICAL BENT PLATE DETAIL
NO SCALE



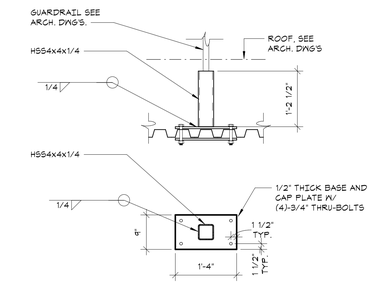
7 TYPICAL COLUMN INTERRUPTED BY GIRDER CONNECTION DETAIL
NO SCALE



9 TYPICAL BEAM BEARING ON CONC. FDN WALL
NO SCALE



10 TYPICAL GIRDER SUPPORTING COLUMN CONNECTION DETAIL
NO SCALE



11 TYPICAL ROOF GUARD RAIL SECTION
NO SCALE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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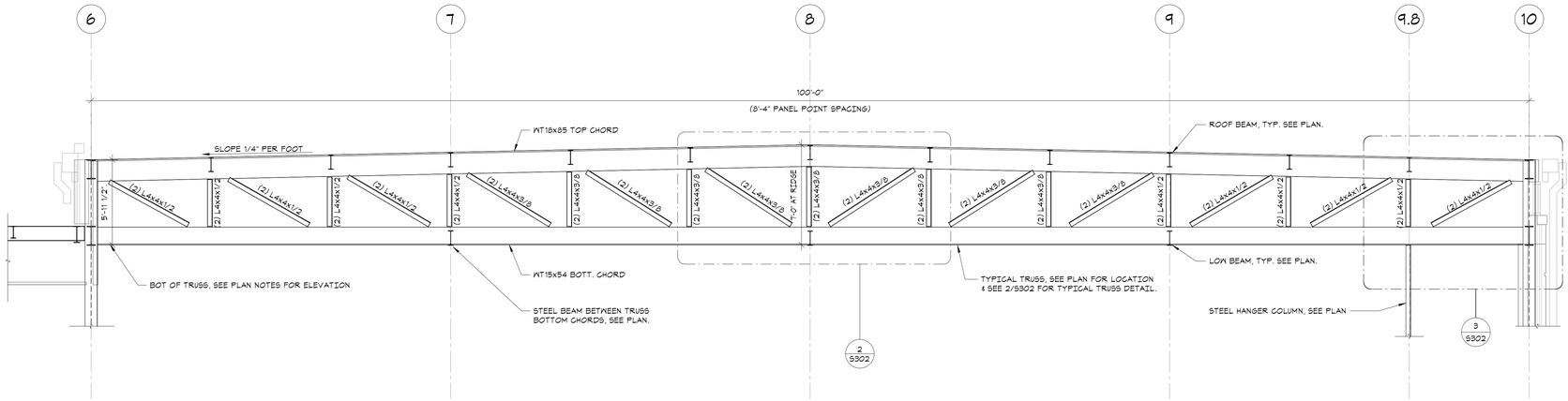
Sheet Title

STEEL FRAMING SCHEDULES AND TYPICAL DETAILS

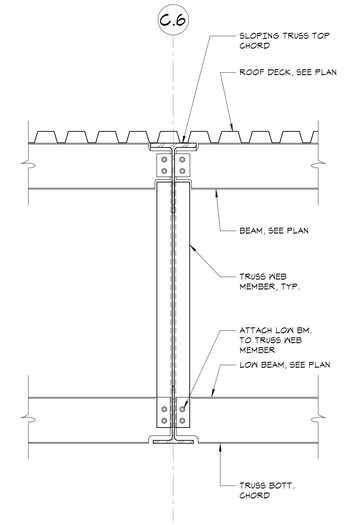
Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

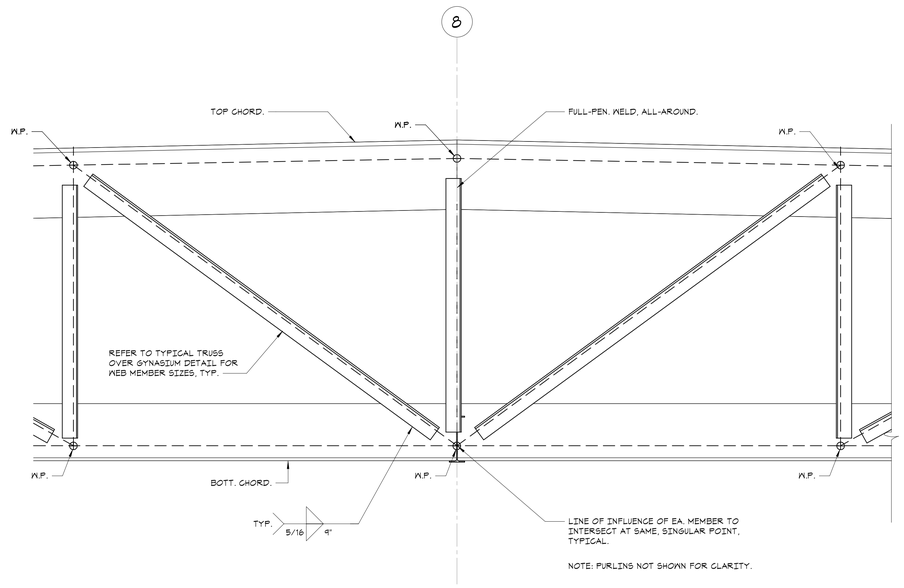
S301



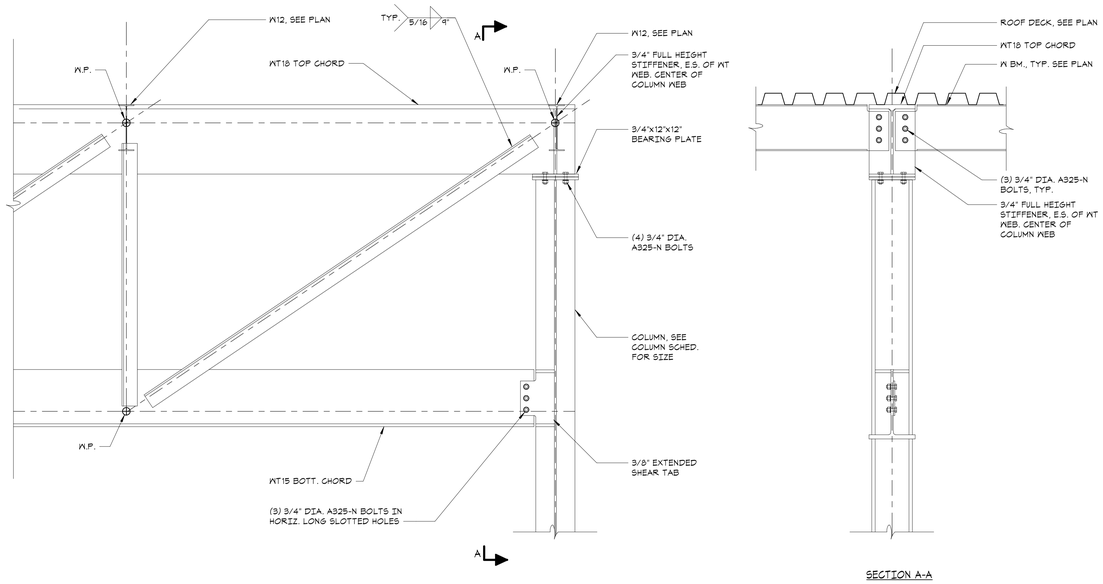
1 TYPICAL TRUSS OVER GYMNASIUM
NO SCALE



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



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



SECTION A-A

3 TYPICAL TRUSS BEARING DETAIL
NO SCALE

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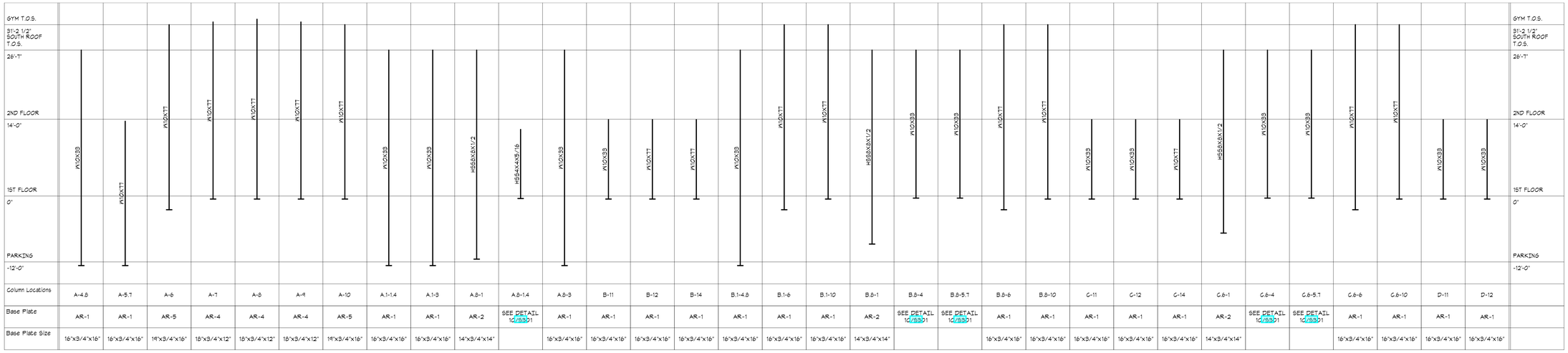
Sheet Title

TRUSS ELEVATION AND DETAILS

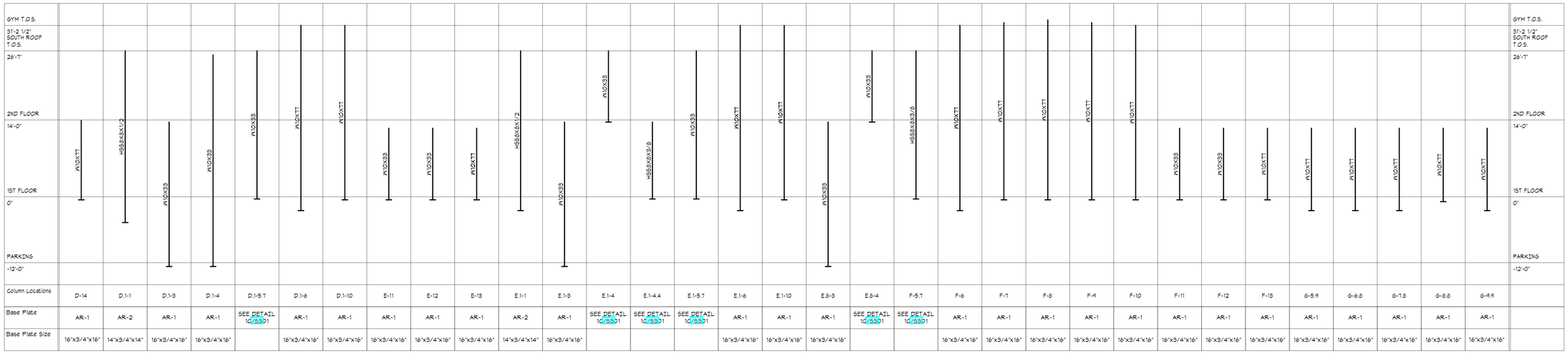
Job No.	Date
20029.00	2020-06-01
Scale	Drawn / Checked
AS NOTED	JM / EM

Sheet Number

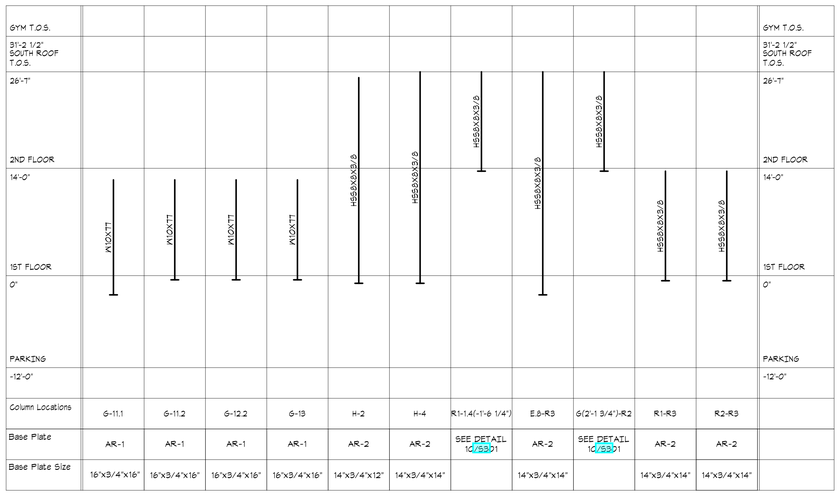
S302



Column Locations	A-4.8	A-5.7	A-6	A-7	A-8	A-9	A-10	A.1-1.4	A.1-3	A.8-1	A.8-1.4	A.8-3	B-11	B-12	B-14	B.1-4.8	B.1-6	B.1-10	B.8-1	B.8-4	B.8-5.7	B.8-6	B.8-10	C-11	C-12	C-14	C.8-1	C.8-4	C.8-5.7	C.8-6	C.8-10	D-11	D-12			
Base Plate	AR-1	AR-1	AR-5	AR-4	AR-4	AR-4	AR-5	AR-1	AR-1	AR-2	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	SEE DETAIL 1/SS301	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	SEE DETAIL 1/SS301	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	AR-1			
Base Plate Size	16"X3/4"X16"	16"X3/4"X16"	19"X3/4"X16"	18"X3/4"X12"	18"X3/4"X12"	18"X3/4"X12"	19"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	14"X3/4"X14"		16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	14"X3/4"X14"			16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	14"X3/4"X14"			16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"			



Column Locations	D-14	D.1-1	D.1-3	D.1-4	D.1-5.7	D.1-6	D.1-10	E-11	E-12	E-13	E.1-1	E.1-3	E.1-4	E.1-4.4	E.1-5.7	E.1-6	E.1-10	E.8-3	E.8-4	F-5.7	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	G-5.9	G-6.8	G-7.8	G-8.8	G-9.9			
Base Plate	AR-1	AR-2	AR-1	AR-1	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-2	AR-1	SEE DETAIL 1/SS301	SEE DETAIL 1/SS301	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	SEE DETAIL 1/SS301	SEE DETAIL 1/SS301	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1	AR-1			
Base Plate Size	16"X3/4"X16"	14"X3/4"X14"	16"X3/4"X16"	16"X3/4"X16"		16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	14"X3/4"X14"	16"X3/4"X16"				16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"			16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	

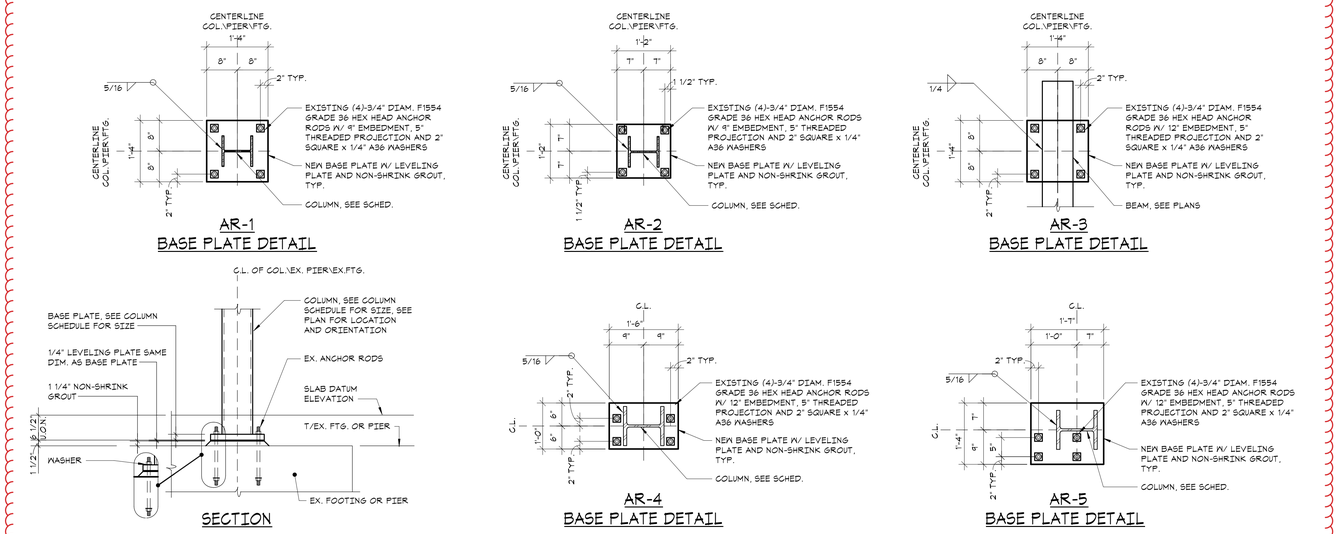


Column Locations	G-11.1	G-11.2	G-12.2	G-13	H-2	H-4	R1-1.4(-1'-6 1/4")	E.8-R3	G(2'-1 3/4")-R2	R1-R3	R2-R3	
Base Plate	AR-1	AR-1	AR-1	AR-1	AR-2	AR-2	SEE DETAIL 1/SS301	AR-2	SEE DETAIL 1/SS301	AR-2	AR-2	
Base Plate Size	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	16"X3/4"X16"	14"X3/4"X12"	14"X3/4"X14"		14"X3/4"X14"		14"X3/4"X14"	14"X3/4"X14"	

NOTE: COLUMNS ARE TO BE PROVIDED AS ONE PIECE AS SHOWN, OR AT CONTRACTOR'S OPTION, SPLICED SECTIONS HAVING FULL PENETRATION WELDS (AT CONTRACTOR'S EXPENSE)

COLUMN SCHEDULE
NO SCALE

RFI 012



TYPICAL BASE PLATE DETAILS
1 NO SCALE

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New Construction - Phase 2

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CONSTRUCTION DOCUMENTS

Key Plan

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Professional Seal

No.	Date	Issue
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

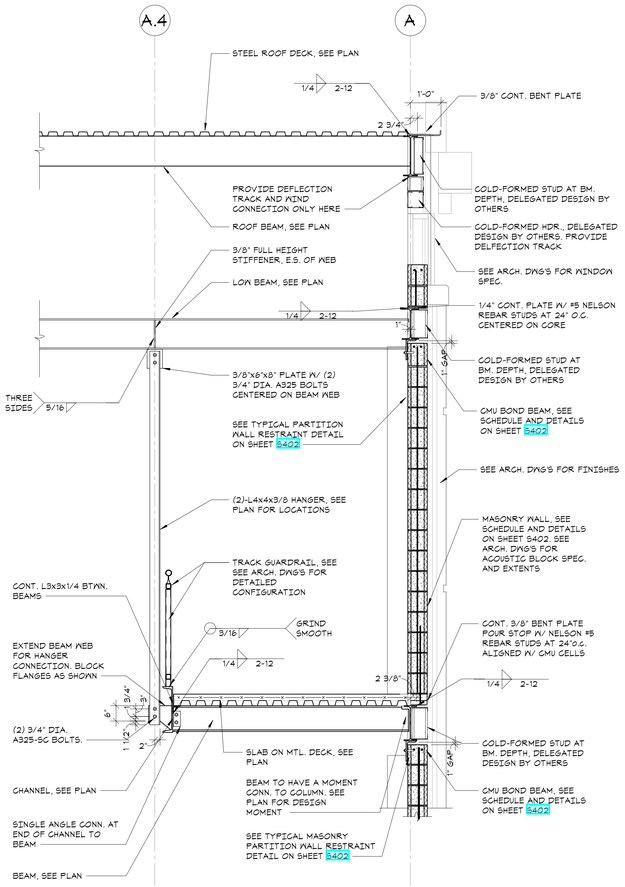
Sheet Title

STEEL COLUMN SCHEDULE AND DETAILS

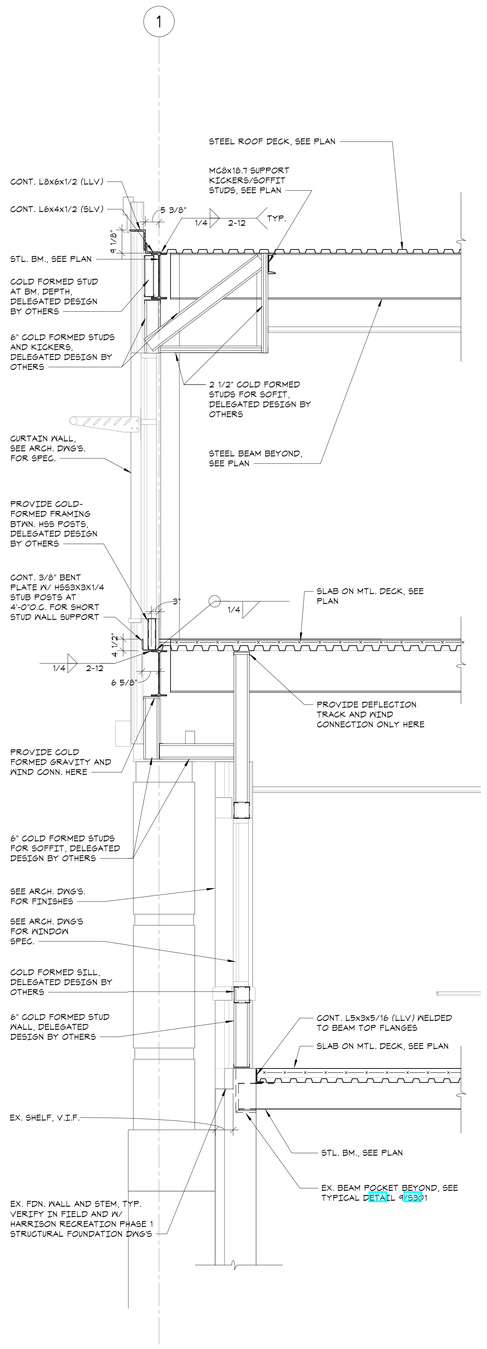
Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

S303



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



2 SECTION
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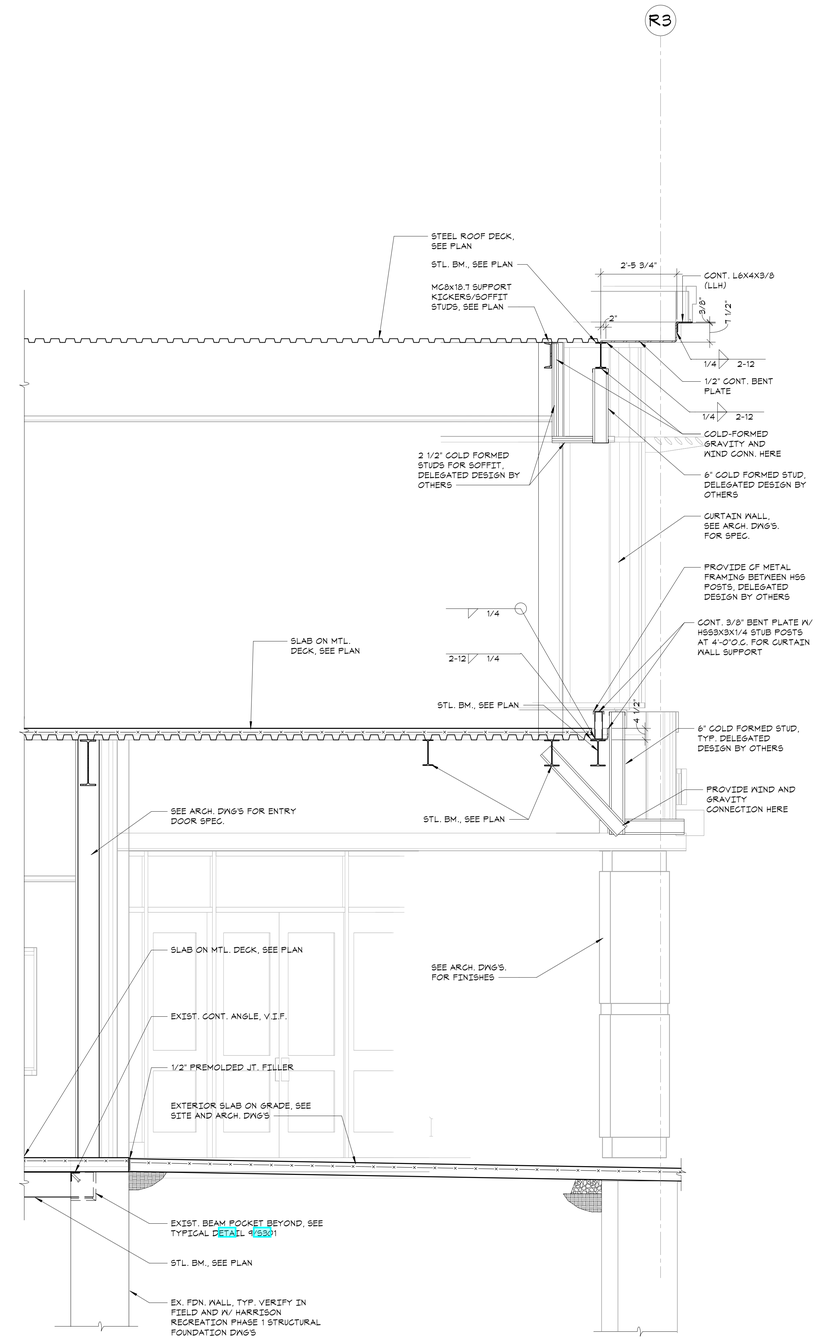

3 SECTION
1/2" = 1'-0"

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3	2024-10-09	CONFORMED SET
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1	2024-01-16	ISSUED FOR PERMIT

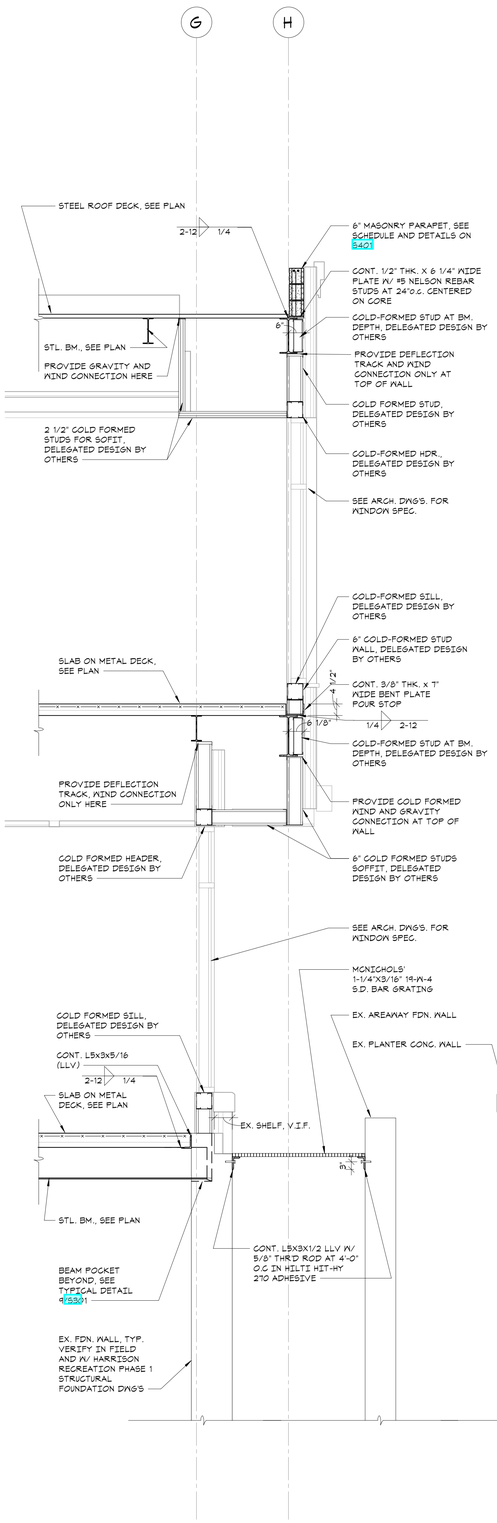
Sheet Title

FRAMING SECTIONS

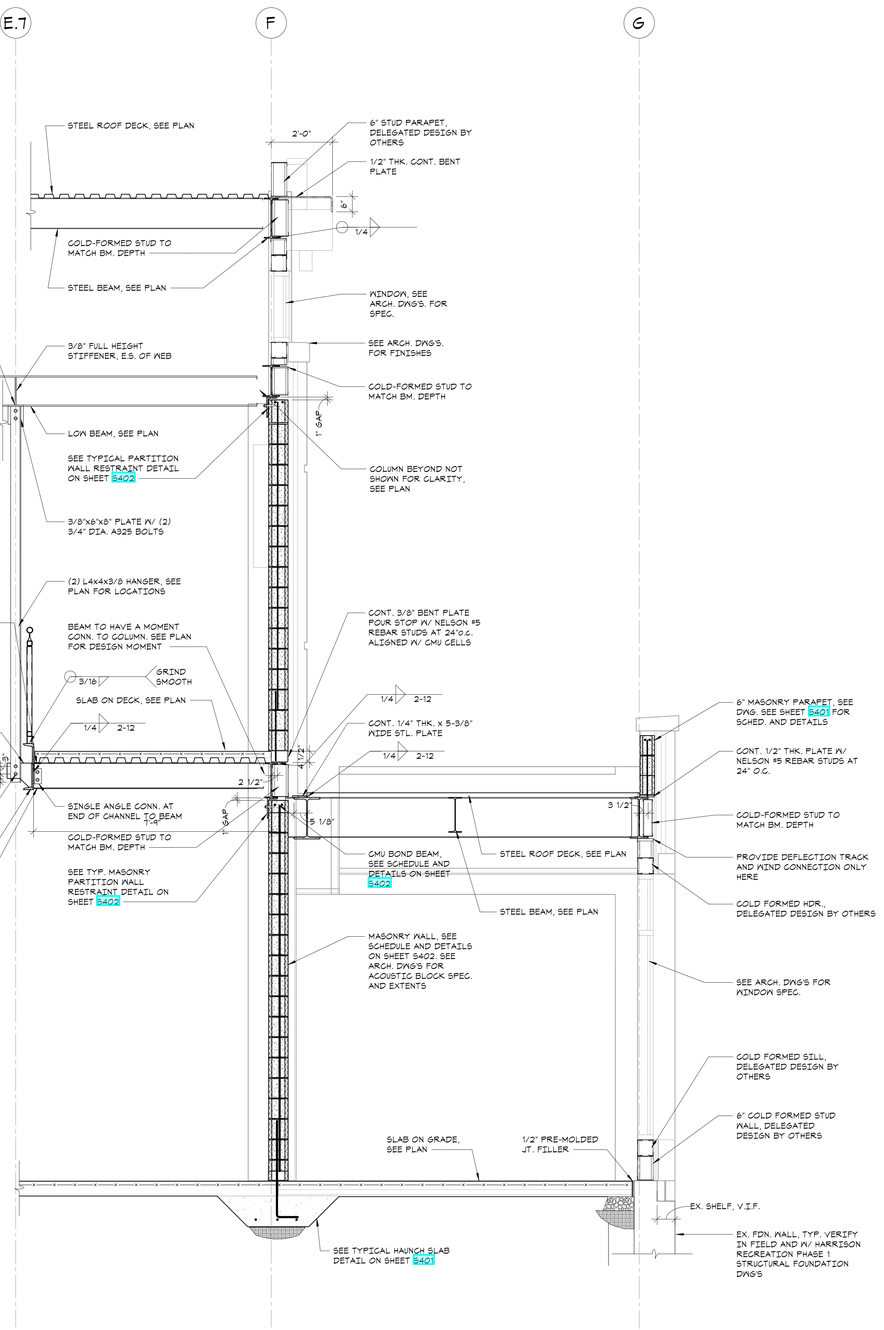
Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

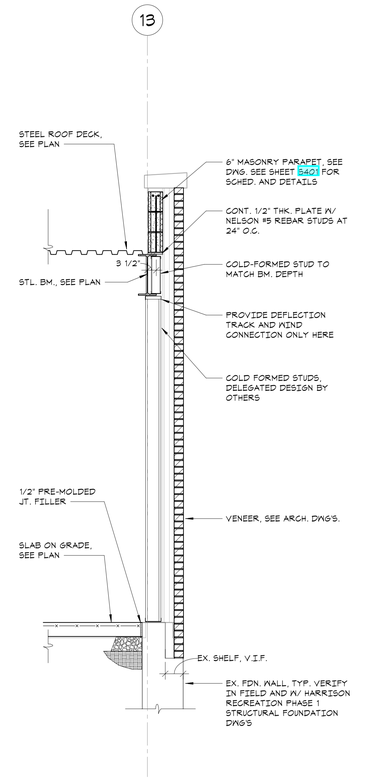
S311



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



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



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

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No.	Date	Issue
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1	2024-01-16	ISSUED FOR PERMIT

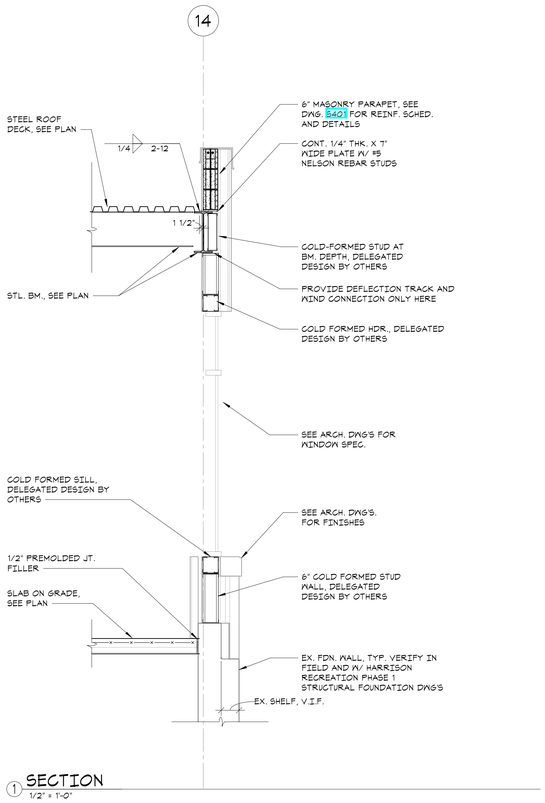
Sheet Title

FRAMING SECTIONS

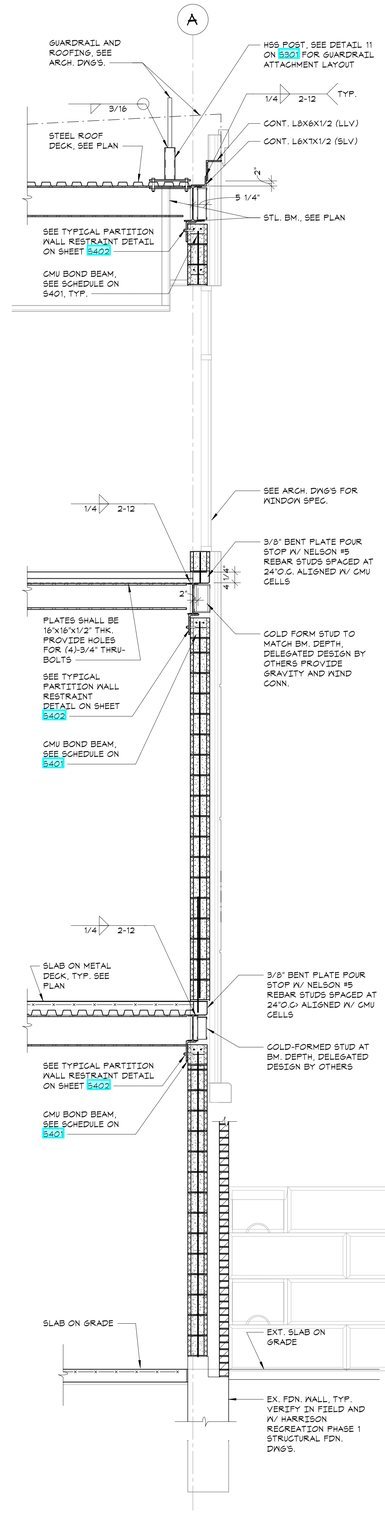
Job No.	Date
20029.00	04/26/23
Scale: AS NOTED	Drawn / Checked: JM / CGB

Sheet Number

S312



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



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

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1	2024-01-16	ISSUED FOR PERMIT

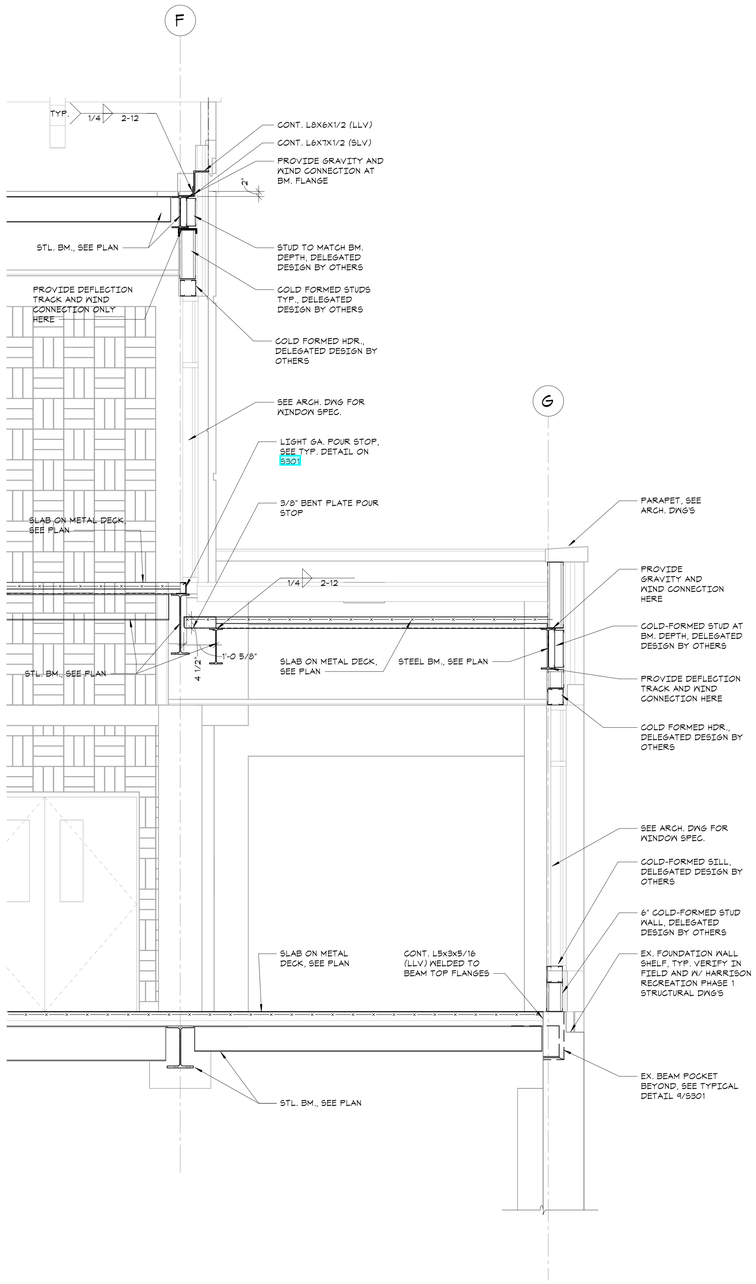
Sheet Title

FRAMING SECTIONS

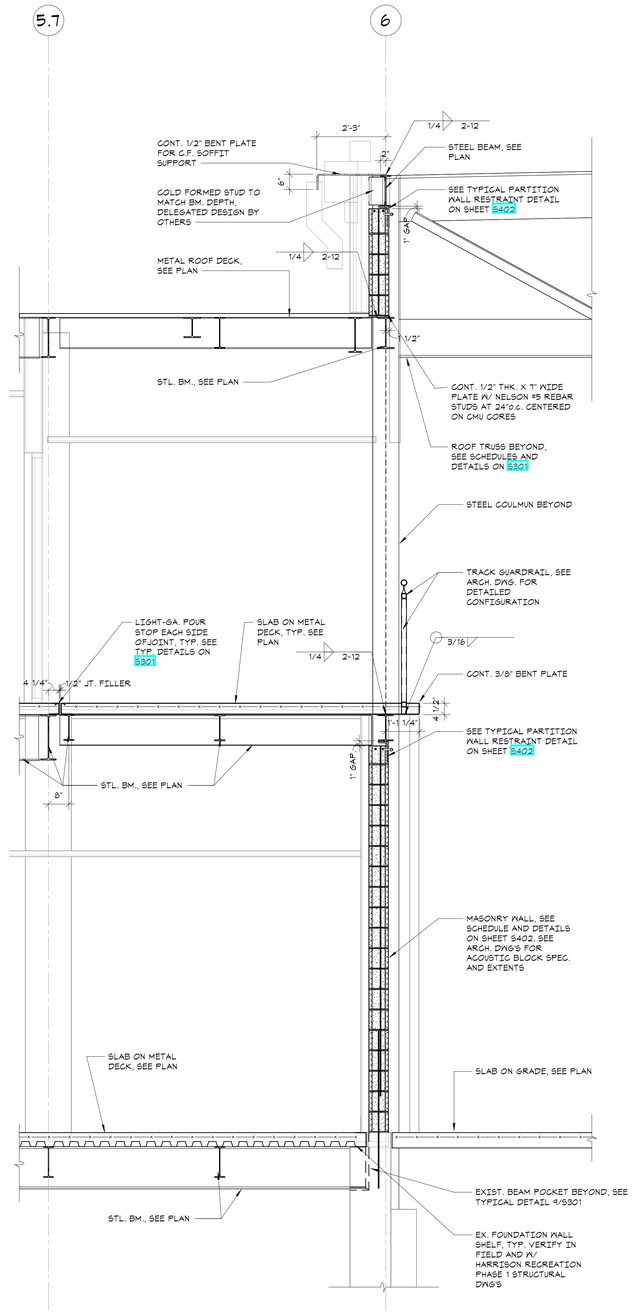
Job No.	Date
20029.00	12/20/23
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

S313



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



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

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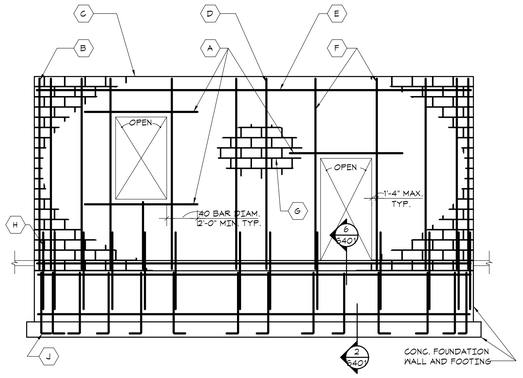
Sheet Title

FRAMING SECTIONS

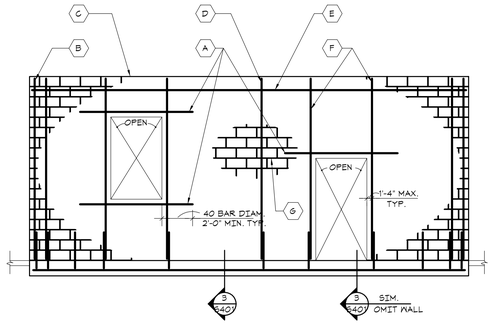
Job No.	Date
20029.00	12/20/23
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

S314

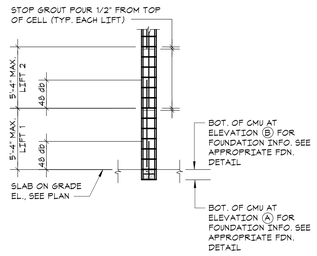


ELEVATION AT EXTERIOR WALLS (A)



ELEVATION AT PARTITION WALLS (B)

- PARTITIONS ARE WALLS OTHER THAN SHEAR WALLS, EXTERIOR WALLS, AND BEARING WALLS



SECTION - LOW LIFT WALL GROUTING DETAIL (C)

- FOR ADDITIONAL GROUTING REQUIREMENTS, SEE NOTE 4 AND GENERAL NOTES.

KEYNOTES

A	(2)-#5 HORIZ. REINF. GROUTED SOLID IN BOND BEAMCOURSE TYP. ABOVE AND BELOW ALL OPENINGS. FOR HORIZONTAL REINFORCING IN MASONRY LINTELS SEE "TYPICAL MASONRY LINTEL IN NON-LOAD BEARING WALL DETAIL"
B	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT WALL ENDS, CORNERS, AND EACH SIDE OF CJ'S,SEE REINFORCEMENT SCHEDULE
C	CMU WALL. FOR SIZE, SEE PLANS AND REINFORCEMENT SCHEDULE.
D	TYP. VERTICAL REINF., SEE REINFORCEMENT SCHEDULE (U.O.N. BY SECTION). FILL CELLS CONTAINING REINF. SOLID W/ GROUT .
E	(2)-#5 HORIZ. REINF. AT TOP OF WALL GROUTED SOLID IN BOND BEAM COURSE. PLACE REINF. ONE COURSE LOWER WHERE WALL ABUTS FLOOR ABOVE.
F	VERT. FULL HEIGHT REINF. IN SOLID GROUT, TYP. AT BOTH SIDES OF ALL WALL OPENINGS, SEE REINFORCEMENT SCHEDULE.
G	HORIZ. JOINT REINFORCING, SEE GENERAL NOTES.
H	PROVIDE REINFORCING DOWELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0"o.c.). REINFORCING DOWELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.
J	PROVIDE REINFORCING DOWELS BETWEEN FTG. AND FDN. WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINFORCING (MAX. SPACING = 4'-0"o.c.). REINFORCING DOWELS SHALL EXTEND INTO MASONRY WALLS AND SHALL BE LAPPED 48 BAR DIAM.

REINFORCEMENT SCHEDULE

WALL DESCRIPTION	WALL ELEVATION TYPE	VERTICAL REINFORCEMENT
8" CMU SHAFT WALLS, AND EXTERIOR WALLS (INCL. ACOUSTIC CMU)	A	(D) #5 AT 32"o.c. (B) (3)-#5's (F) (1)-#5
8" CMU PARTITIONS	B	(D) #4 AT 48"o.c. (B) (1)-#4 (F) (1)-#4 NOTE: ALL 8" CMU PARTITIONS MUST BE BRACED AT EACH FLOOR LEVEL.

- SEE WALL ELEVATIONS (A) AND (B) FOR PLACEMENT OF REINFORCEMENT AND ADDITIONAL REQUIREMENTS.
- ALL WALLS SHALL HAVE HORIZ. JOINT REINFORCEMENT AS PER GENERAL NOTES. AT SHEAR WALLS PROVIDE ADDITIONAL HORIZ. JOINT REINFORCEMENT AS PER "TYP. REINF. ARRANGEMENTS AT CMU SHEAR WALL ENDS, CORNERS, AND INTERSECTIONS."

NOTES:
1. FOR CMU WALL LOCATIONS AND EXTENT, SEE ARCH. DWGS.
2. SEE ARCH. DWGS. FOR LOCATIONS OF CONTROL JOINTS. DO NOT LOCATE CONTROL JOINTS WITHIN 32" OF MASONRY OPENINGS.
3. ALL CMU CELLS CONTAINING VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID.
4. ALL GROUTED CELLS SHALL BE MECHANICALLY VIBRATED IN ACCORDANCE WITH ACI 530. IN ADDITION, AFTER 10 MINUTES, MECHANICALLY VIBRATE GROUTED CELLS A SECOND TIME.
5. BOND BEAM AT SLOPING STEEL BEAMS/ROOFS/CEILINGS: ELEVATION OF CONTINUOUS BOND BEAM MUST VARY W/ SLOPING STL. BM./ROOF/CEILING. WHERE CHANGES COURSE, RUN BOND BEAM IN BOTH COURSES FOR A MINIMUM OF 8'-0"

1 TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL

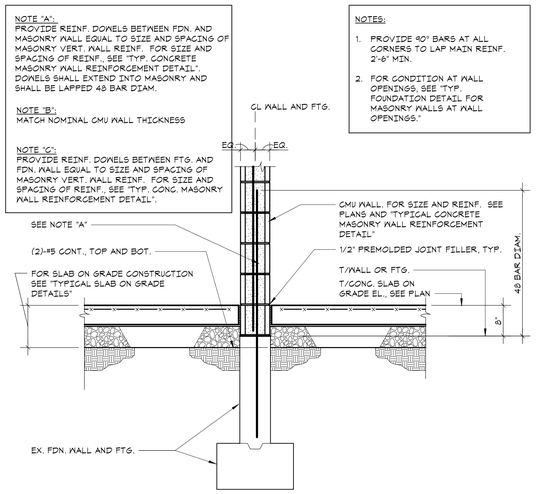
NO SCALE

NOTE "A":
PROVIDE REINF. DOWELS BETWEEN FDN. AND MASONRY WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINF. FOR SIZE AND SPACING OF REINF., SEE "TYP. CONCRETE MASONRY WALL REINFORCEMENT DETAIL". DOWELS SHALL EXTEND INTO MASONRY AND SHALL BE LAPPED 48 BAR DIAM.

NOTE "B":
MATCH NOMINAL CMU WALL THICKNESS

NOTE "C":
PROVIDE REINF. DOWELS BETWEEN FTG. AND FDN. WALL EQUAL TO SIZE AND SPACING OF MASONRY VERT. WALL REINF. FOR SIZE AND SPACING OF REINF., SEE "TYP. CONC. MASONRY WALL REINFORCEMENT DETAIL".

NOTES:
1. PROVIDE 90° BARS AT ALL CORNERS TO LAP MAIN REINF. 2'-6" MIN.
2. FOR CONDITION AT WALL OPENINGS, SEE "TYP. FOUNDATION DETAIL FOR MASONRY WALLS AT WALL OPENINGS."



2 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS

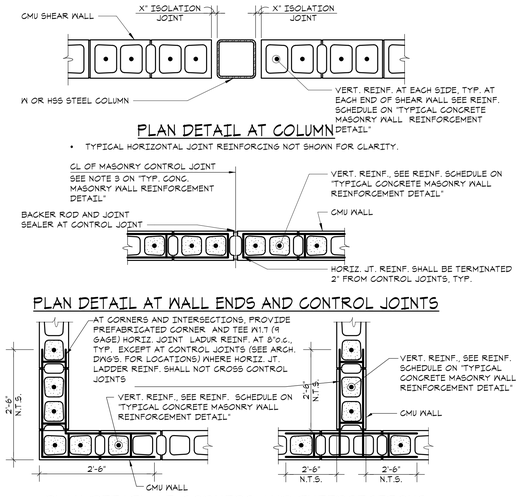
NO SCALE

NOTE "A": THIS DETAIL APPLIES AT INT. CMU WALLS WHICH ARE NOT SHEAR WALLS AND ARE NON-LOAD BEARING. SEE ARCH. DWGS. FOR SIZE, LENGTH, EXTENT, AND LOCATION OF INT. CMU WALLS U.O.N.

NOTE "B":
ALTERNATE TO CAST DOWELS: PROVIDE DRILLED DOWELS (NOT SHOWN). MATCH SIZE AND SPACING OF VERTICAL WALL REINF. MAX. SPACING 4'-0"o.c. DRILL AND EMBED DOWELS 8" INTO GONC. W/ ADHESIVE ANCHORING SYSTEM, SEE GENERAL NOTES

3 TYPICAL PARTITION WALL SUPPORT DETAIL

NO SCALE



PLAN DETAIL AT COLUMN

- TYPICAL HORIZONTAL JOINT REINFORCING NOT SHOWN FOR CLARITY.

PLAN DETAIL AT WALL ENDS AND CONTROL JOINTS

PLAN DETAIL AT CORNERS AND INTERSECTIONS

- TYPICAL HORIZONTAL JOINT REINFORCING (NOT SHOWN FOR CLARITY).

4 TYPICAL MASONRY WALL PLAN DETAILS

NO SCALE

CMU WALL AT UNDERSIDE OF DECK

- SEE NOTES BELOW

CMU WALL AT STEEL BEAM OR JOIST

DETAIL 'A'

NOTES:
1. THESE DETAILS APPLY AT INTERIOR CMU WALLS WHICH ARE NOT SHEAR WALLS AND ARE NON-LOAD BEARING. SEE ARCHITECTURAL DRAWINGS FOR SIZE, LENGTH, AND LOCATION OF INTERIOR CMU WALLS.
2. BRACING AT TOP OF WALL IS NOT REQUIRED BETWEEN INTERSECTING CMU WALLS SPACED LESS THAN 10 FEET FOR 4" WALLS, 14 FEET FOR 6" WALLS, 17 FEET FOR 8" WALLS, AND 21 FEET FOR 12" WALLS.
3. WHERE LOCATION OF CMU WALL FACE IS OFF BEAM/JOIST CENTERLINE SUCH THAT ABOVE GAGE ANGLES AT STEEL BEAM OR STEEL DECK CAN NOT SANDWICH CMU WALL FROM BOTH SIDES, BRACE CMU WALL WITH STEEL ANGLES/BENT PLATES AND THREADED RODS SIMILAR TO SECTION "TYPICAL CONNECTION DETAIL AT TOP OF SHEAR/EXTERIOR WALLS", EXCEPT IN LIEU OF WELDING ANGLE/BENT PLATE TO BOTTOM FLAGE OF BEAM, BOLT TO BOTTOM FLANGE OF BEAM WITH (2) 3/4" DIAM. A325 BOLTS IN 1 7/8" LONG HORIZONTAL SLOTTED HOLES (SLOTS PARALLEL TO SPAN OF BEAM).

5 TYPICAL BRACING DETAIL AT TOP OF PARTITION WALL

NO SCALE

NOTE "A":
SEE TYP. FDN WALL SECTION FOR INFORMATION NOT SHOWN

NOTE "B":
MATCH NOMINAL CMU WALL THICKNESS

6 TYPICAL FOUNDATION DETAIL FOR MASONRY WALLS AT WALL OPENINGS

NO SCALE

SECTION

PLAN

7 TYPICAL BASE ANCHORAGE DETAIL FOR SHEAR WALLS ON ELEVATED SLABS AND BEAMS

NO SCALE

HRC PH2 BULLETIN 12 Masonry Mortar Colors.pdf

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Professional Seal

No.	Date	Issue
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

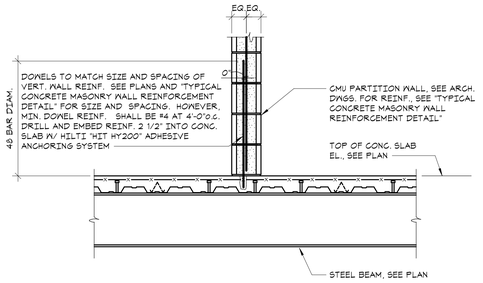
Sheet Title

MASONRY SCHEDULE AND TYPICAL DETAILS

Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

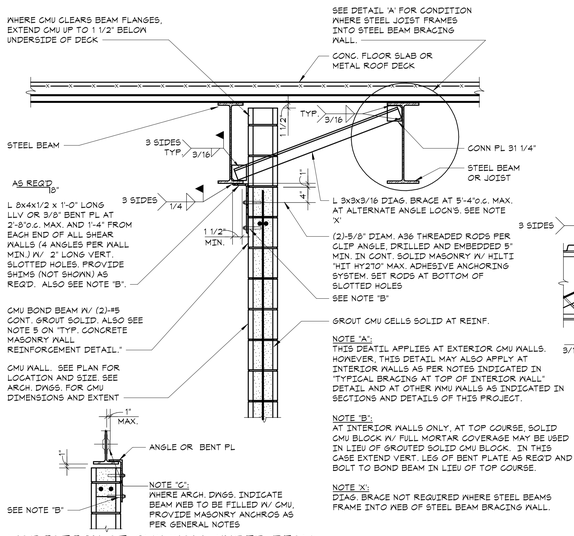
S401



NOTE 'A':
THIS DETAIL APPLIES AT INT. CMU WALLS WHICH ARE NOT SHEAR WALLS AND ARE NON-LOAD BEARING. SEE ARCH. DWGS. FOR SIZE, LENGTH, EXTENT, AND LOCATION OF INT. CMU WALLS.

NOTE 'B':
ALTERNATE TO CAST DOWELS: PROVIDE DRILLED DOWELS (NOT SHOWN), MATCH SIZE AND SPACING OF VERTICAL WALL REINF., MAX. SPACING 4'-0" O.C. DRILL AND EMBED DOWELS 8" INTO CONC. WITH HILTI "RE-500SD" ADHESIVE ANCHROING SYSTEM OR SIMPSON "SET-XP" ADHESIVE ANCHORING SYSTEM.

1 TYPICAL BASE ANCHORAGE DETAIL FOR PARITION WALLS ON ELEVATED SLABS
NO SCALE

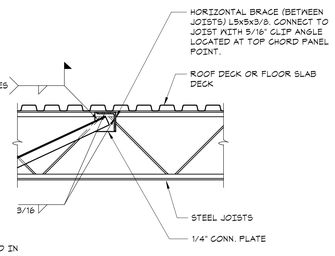


VARIATION AT CMU WALL UNDER BEAM

NOTE 'A':
THIS DEATIL APPLIES AT EXTERIOR CMU WALLS. HOWEVER, THIS DETAIL MAY ALSO APPLY AT INTERIOR WALLS AS PER NOTES INDICATED IN "TYPICAL BRACING AT TOP OF INTERIOR WALL" DETAIL AND AT OTHER CMU WALLS AS INDICATED IN SECTIONS AND DETAILS OF THIS PROJECT.

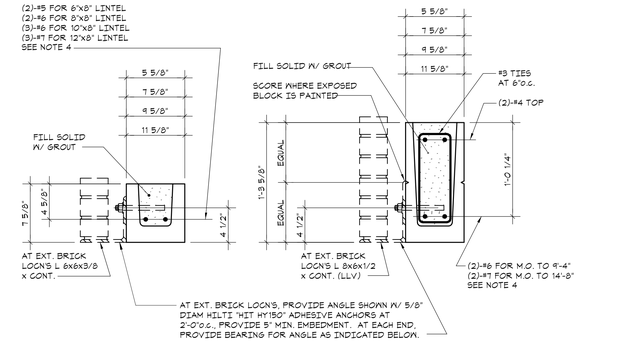
NOTE 'B':
AT INTERIOR WALLS ONLY, AT TOP COURSE, SOLID CMU BLOCK W/ FULL MORTAR COVERAGE MAY BE USED IN LIEU OF GROUTED SOLID CMU BLOCK. IN THIS CASE EXTEND VERT. LEG OF BENT PLATE AS REQ'D AND BOLT TO BOND BEAM IN LIEU OF TOP COURSE.

NOTE 'X':
DIAG. BRACE NOT REQUIRED WHERE STEEL BEAMS FRAME INTO WEB OF STEEL BEAM BRACING WALL.



DETAIL 'A'

2 TYPICAL CONNECTION DETAIL AT TOP OF EXTERIOR WALLS
NO SCALE



6"x8", 8"x8", 10"x8" AND 12"x8" LINTEL 6"x16", 8"x16", 10"x16" AND 12"x16" LINTEL

FOR M.O. TO 8'-8"
8" BEARING (MIN.) EACH END
SEE LINTEL NOTES

FOR M.O. TO 14'-8"
12" BEARING (MIN.) EACH END
SEE LINTEL NOTES

NOTE:

1 THIS DETAIL APPLIES ONLY TO LINTELS IN NON-LOAD BEARING WALLS.

2 AT EACH SIDE OF WALL OPENINGS, PROVIDE VERT. REINF. FULL HEIGHT AS PER "TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL".

3 SEE MASONRY GENERAL NOTES FOR INFO. REGARDING MASONRY LINTELS NOT SHOWN ON STRUCTURAL PLANS AND INFO. REGARDING TEMPORARY SUPPORT.

4 EXTEND REINFORCING BARS PAST OPENINGS AS PER "TYPICAL CONCRETE MASONRY WALL REINFORCEMENT DETAIL".

3 TYPICAL MASONRY LINTELS IN NON-LOAD BEARING WALLS DETAILS
NO SCALE

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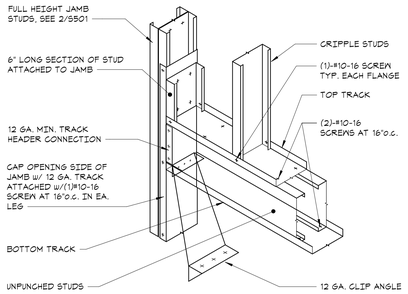
Sheet Title

MASONRY TYPICAL DETAILS

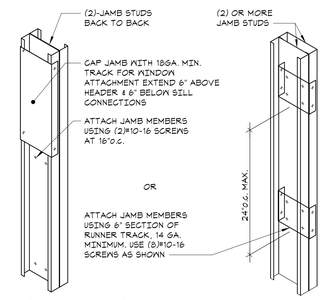
Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number

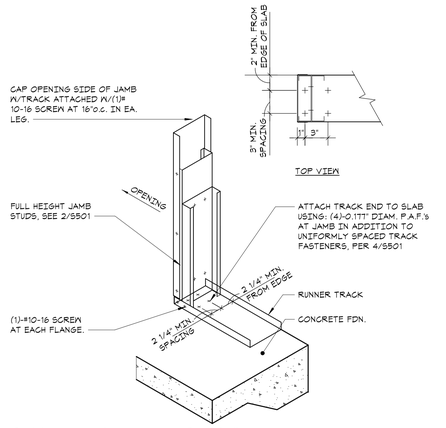
S402



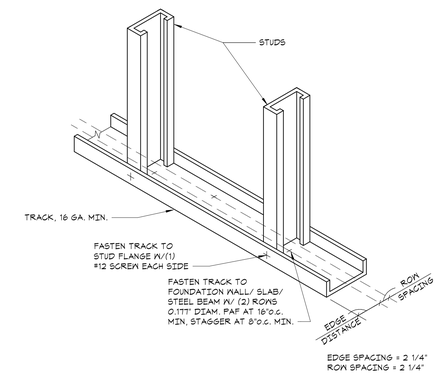
1 TYPICAL BOXED HEADER DETAIL
NO SCALE



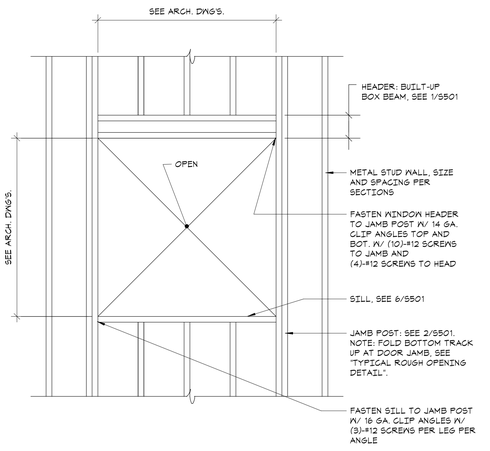
2 TYPICAL BUILT-UP JAMB DETAIL
NO SCALE



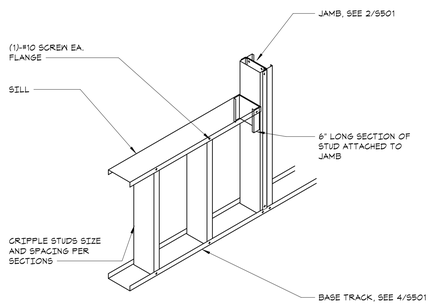
3 TYPICAL JAMB ANCHORAGE DETAIL
NO SCALE



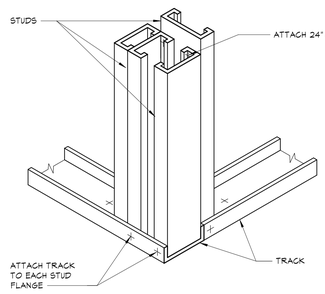
4 TYPICAL COLD FORMED STUD WALL DETAIL
NO SCALE



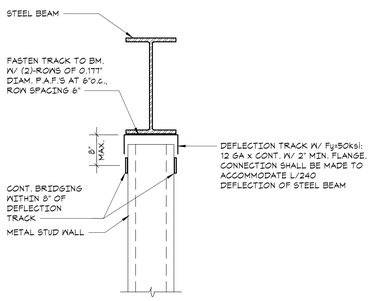
5 TYPICAL STUD WALL OPENING
NO SCALE



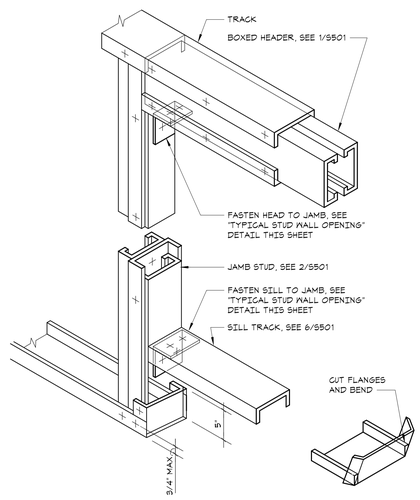
6 TYPICAL SILL DETAIL
NO SCALE



7 TYPICAL STUD WALL CORNER DETAIL
NO SCALE



9 TYPICAL DEFLECTION TRACK DETAIL
NO SCALE



10 TYPICAL ROUGH OPENING DETAIL
NO SCALE

COLD FORMED METAL FRAMING SCHEDULE

TYPICAL FRAMING

EXTERIOR 6" WALLS	• 600S162-54 AT 16"O.C. • DOUBLE 600S162-54 AT 16"O.C. WITHIN 10'-0" OF ALL BUILDING CORNERS • 600T125-54 TRACK

OPENINGS

R.O. WIDTH	HEADER	SILL	JAMB
3'-6" OR LESS	(2)-600T125-54 + (1)-600S162-54	600T125-54	(2)-600S162-54
3'-6" TO 5'-0"	(2)-600T125-54 + (2)-600S162-54	(2)-600T125-54 + (1)-600S162-54	(2)-600S162-54
5'-0" TO 8'-0"	(2)-600T125-54 + (3)-600S162-54	(2)-600T125-54 + (2)-600S162-54	(3)-600S162-54
8'-0" TO 12'-0"	(2)-600T125-54 + (3)-600S162-54	(2)-600T125-54 + (2)-600S162-54	(3)-600S200-54

- SHAPE DESIGNATION BASED ON "INDUSTRY STANDARD NOMENCLAUTRE" (REFER TO SSMA.COM)
- ALL BUILT-UP MEMBERS TO BE FASTENED TOGETHER WITH #12 SCREWS AT 12"O.C.
- ALL BUILT-UP MEMBERS TO BE FASTENED TOGETHER WITH #12 SCREWS AT 12"O.C.
- ALL MEMBERS ARE TO BE CONTINUOUS, TRACK AND STUDS SHALL NOT BE SPLICED.

8 COLD-FORMED FRAMING SCHEDULE
NO SCALE

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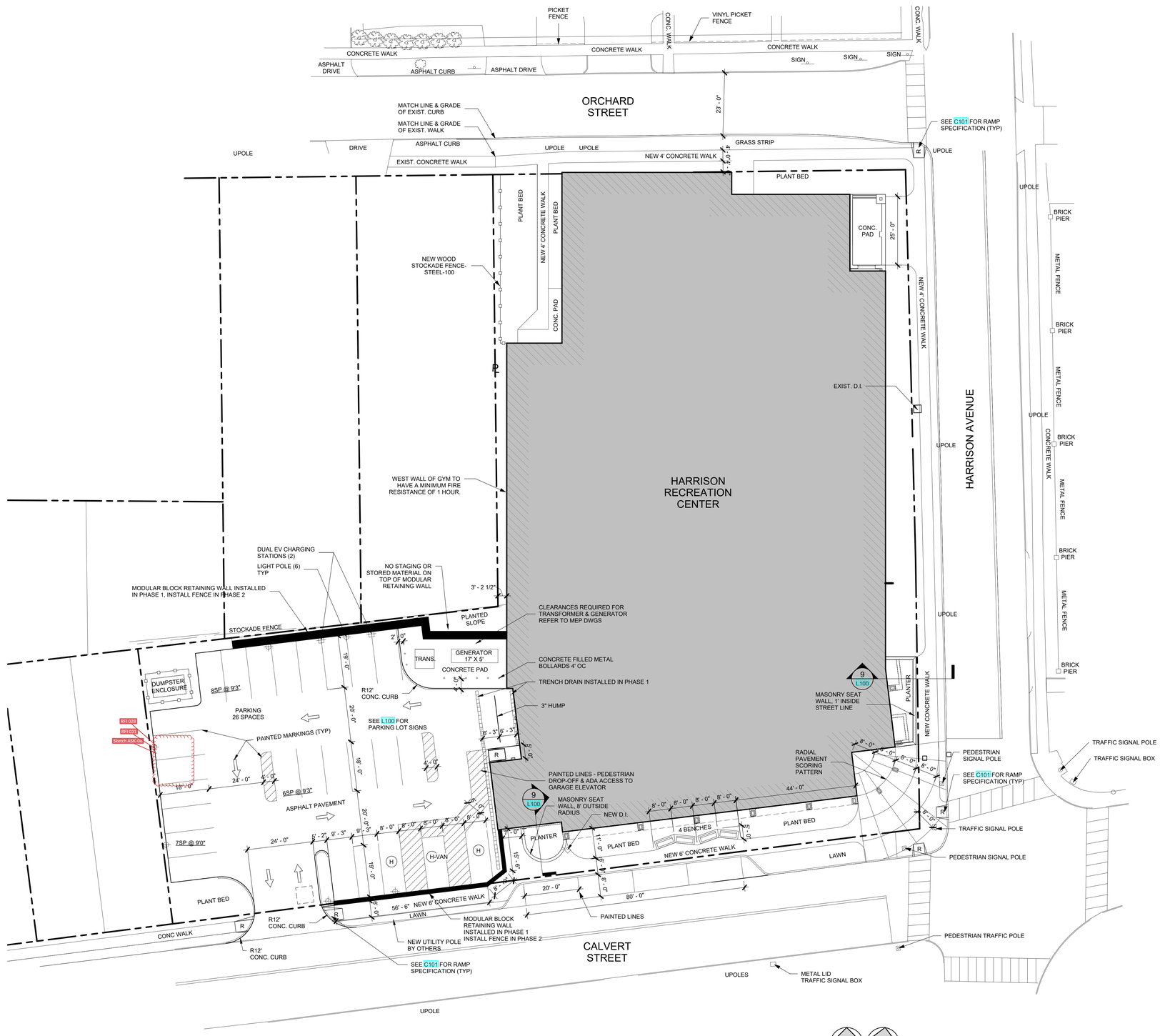
No.	Date	Issue
3	2024-10-09	CONFORMED SET
2	2024-06-05	ISSUED FOR BID
1	2024-01-16	ISSUED FOR PERMIT

Sheet Title
COLD-FORMED FRAMING SCHEDULES AND TYPICAL DETAILS

Job No.	Date
20029.00	2020-06-01
Scale: AS NOTED	Drawn / Checked: JM / EM

Sheet Number
S501



1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

PROJECT NORTH | TRUE NORTH

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ARCHITECTURAL SITE PLAN

Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A101

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.

2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO, GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.

3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.

4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.

5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.

6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- 101 NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

CALVERT STREET

HARRISON AVENUE

1 LOWER LEVEL & PARKING PLAN
1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

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No.	Date	Issue
10	02/11/2025	BULLETIN #3
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

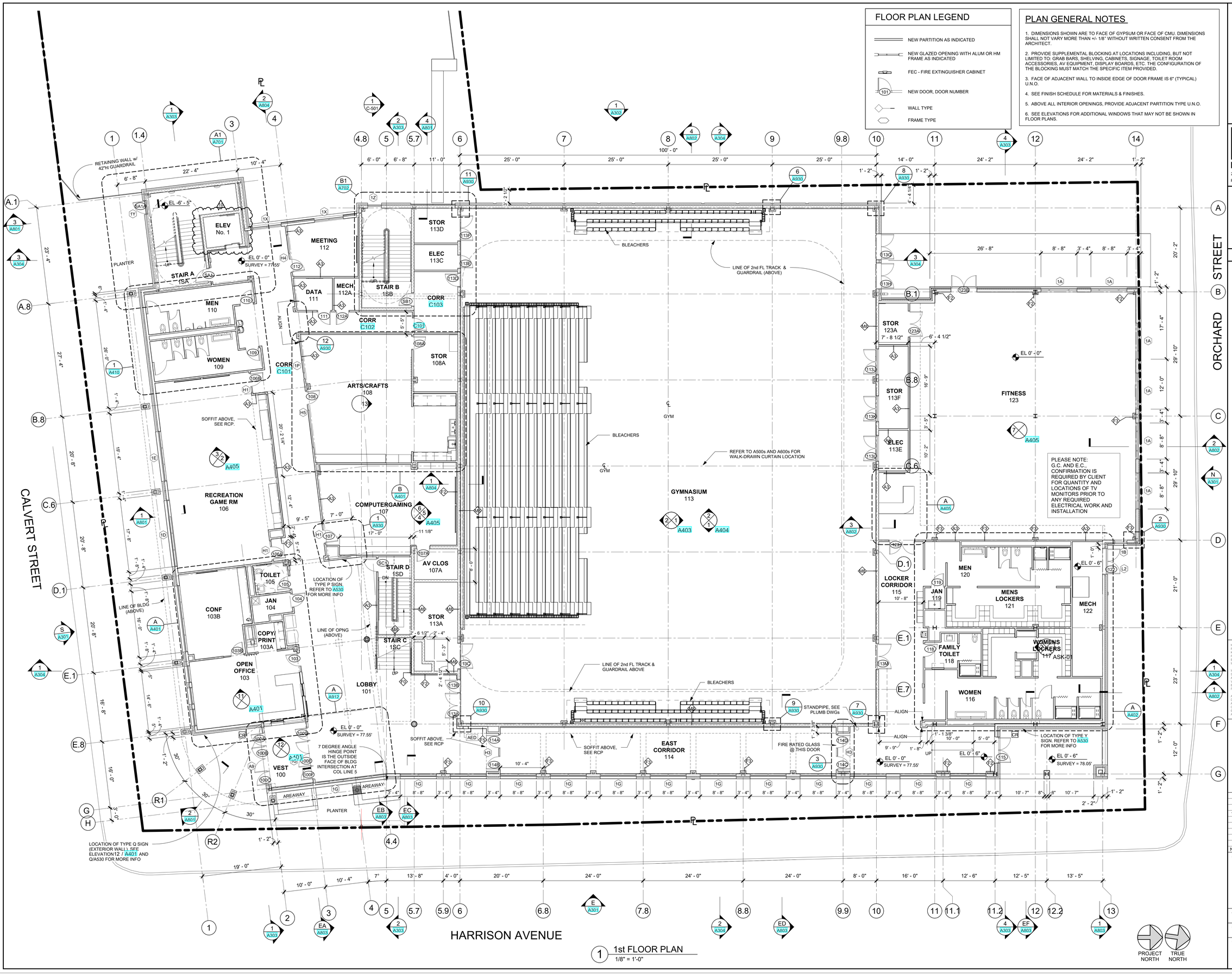
Sheet Title

LOWER LEVEL PARKING PLAN

Job No.	Date
2020-1005	03/31/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A201



1 1st FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- 101 NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

1st FLOOR PLAN

Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A202

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- 101 — NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

1 2nd FLOOR PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

GENERAL NOTES

1 (101) DENOTES DOOR NUMBER SEE A911 FOR DOOR SCHEDULE. SEE SPECS. FOR HARDWARE SET & INFO
2 RW DENOTES RESCUE WINDOW SEE A914 & SPECS FOR MORE INFO
3 DENOTES 1hr OR NON-RATED WALL SEE A901 FOR WALL INFO
4 DENOTES 2hr RATED WALL SEE A901 FOR WALL INFO
5 (X) 1 DENOTES WALL TYPE & FIRE RATING. (WHERE SHOWN) SEE A901
6 (X) DENOTES HOLLOW METAL OR ALUM. FRAME - w/SIDELITE OR TRANSOM (SEE A902 & A903)
7 FINISH SCHEDULE - SEE A501
8 ALL CORRIDOR WALLS SHALL BE "TYPE 5" ON A901 (EVEN IF NOT TAGGED) U.N.O.
9 UNTAGGED WALLS SHALL BE CONSIDERED "TYPE 1" ON A901, EXCEPT THAT CORRIDOR WALLS SHALL BE "TYPE 5"
10 1st & 2nd FL CORRIDOR WALLS SHALL HAVE WALL TILE PER THE FINISH SCHEDULE ON A501. REFER TO WALL "TYPE T" ON A501 IN ADDITION TO THE WALL "TYPE 5" INDICATED WHICH IS TYPICAL (U.N.O.)
11 AT THE BUILDING INTERIOR, ALL STEEL COLUMNS SHALL BE ENCASED w/ WALL TYPE F2 (FURRING) EVEN IF NOT SHOWN
12 DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: "FACE OF GWB" OR "FACE OF CMU"
13 FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE DETAILS A, B & C ON A902)
14 IT IS A REQUIREMENT OF THIS PROJECT THAT ALL WINDOW, DOOR, LOUVER AND ALL OTHER OPENINGS, PENETRATIONS INCLUDING DECK FLUTES IN THE BUILDING EXTERIOR SHALL HAVE THE SURROUNDING GAPS FOR SHIMS & LEVELING FILLED WITH BATT INSULATION STRIPS TO FORM A COMPLETE AIR INFILTRATION BARRIER. IN MANY CASES SMALL BITS & PIECES OF INSULATION WILL REQUIRE BEING FITTED INTO THESE GAPS AT HEAD, JAMBS & SILLS.
14A PRIOR TO CLOSURE OF SURROUNDING CONSTRUCTION THE G.C. SHALL PROVIDE THE ARCHITECT WITH ADEQUATE NOTICE FOR REVIEW OF ALL SUCH CONDITIONS.
14B NON-EXPANDING SPRAY FOAM FILLER MAY BE PERMISSABLE FOR SEALING THE BUILDING PERIMETER, IF APPROVED BY THE ARCHITECT.

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Professional Seal

No.	Date	Issue
10	02/11/2025	BULLETIN #3
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

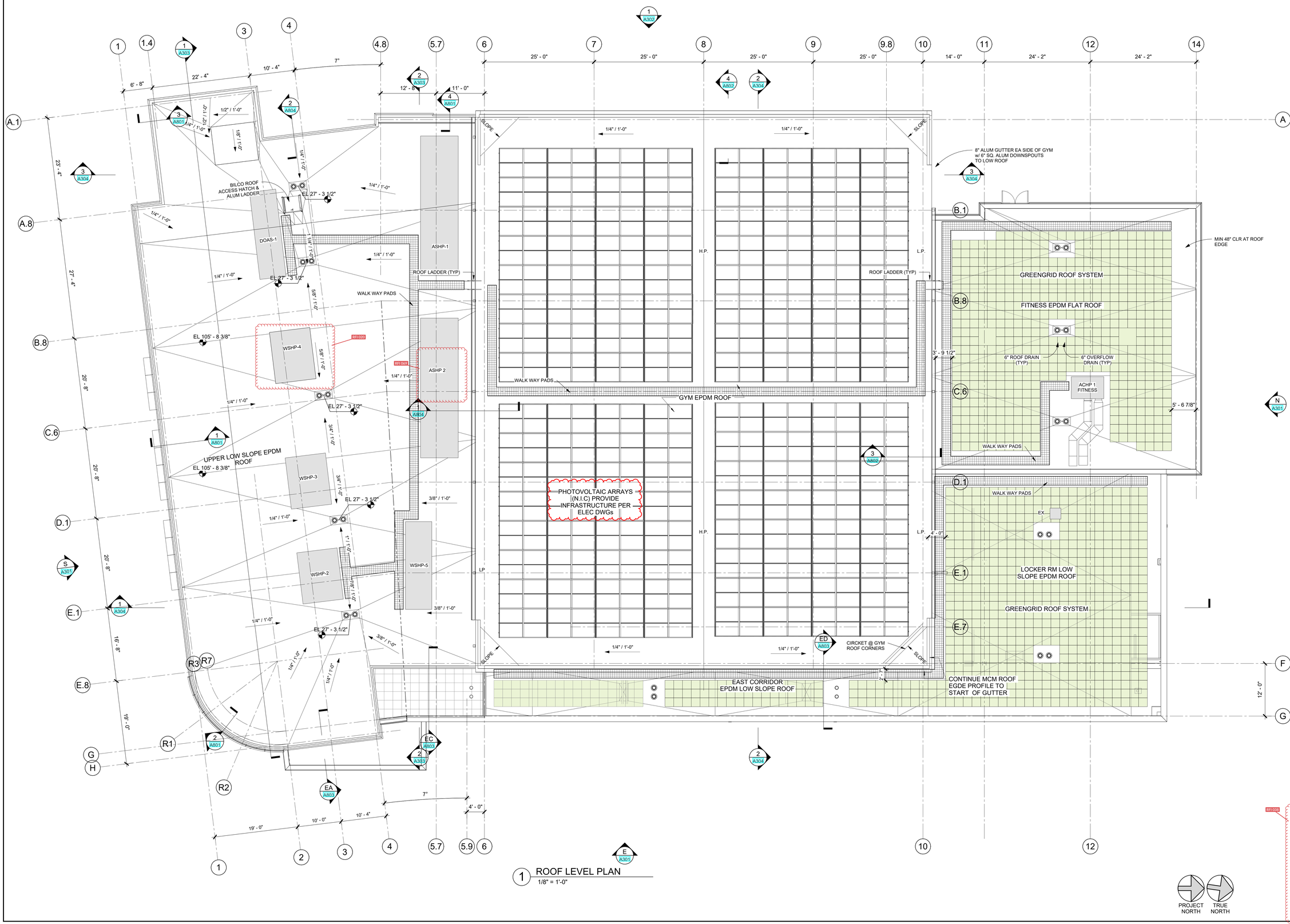
2nd FLOOR PLAN

Job No.	Date
2020-1005	01/10/19
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A203

PROJECT NORTH TRUE NORTH



1 ROOF LEVEL PLAN
1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
6	07/18/2024	BID ADDENDUM #4
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

RFI 032

ROOF LEVEL PLAN

Job No.	Date
2020-1005	03/31/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

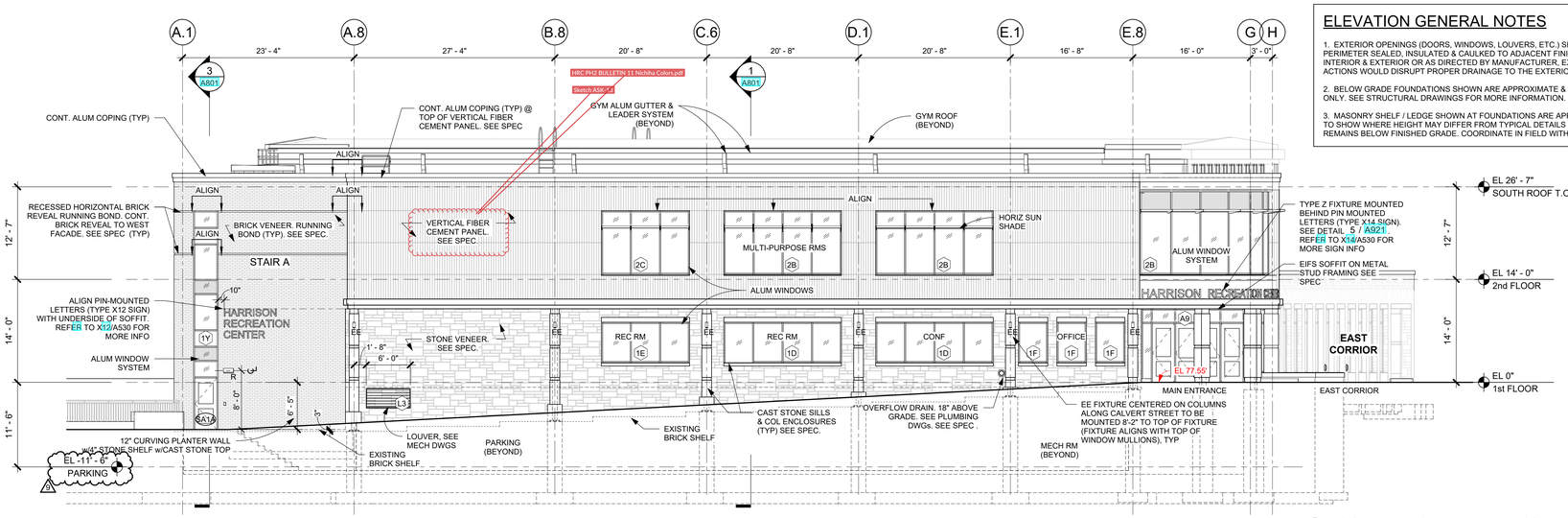
A204

ELEVATION GENERAL NOTES

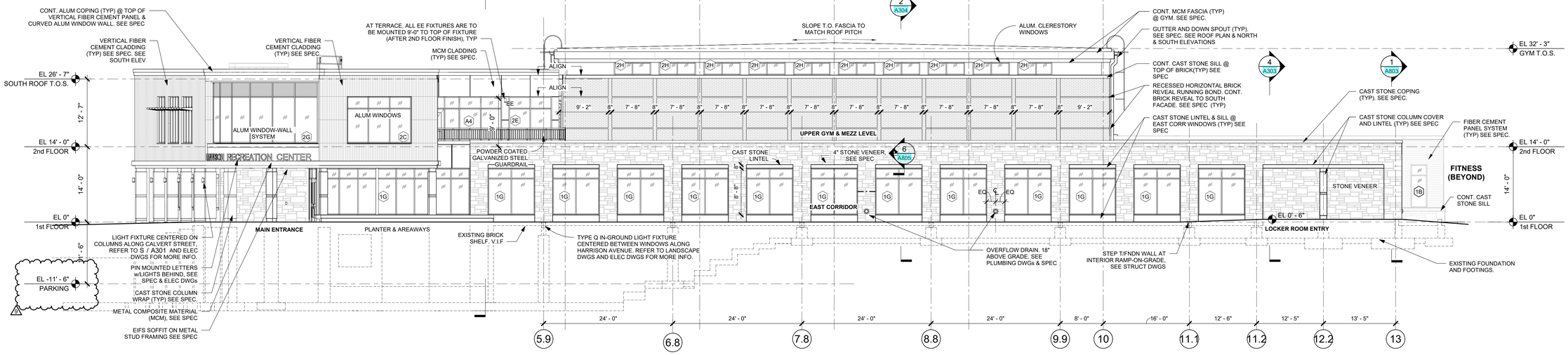
1. EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.

2. BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.

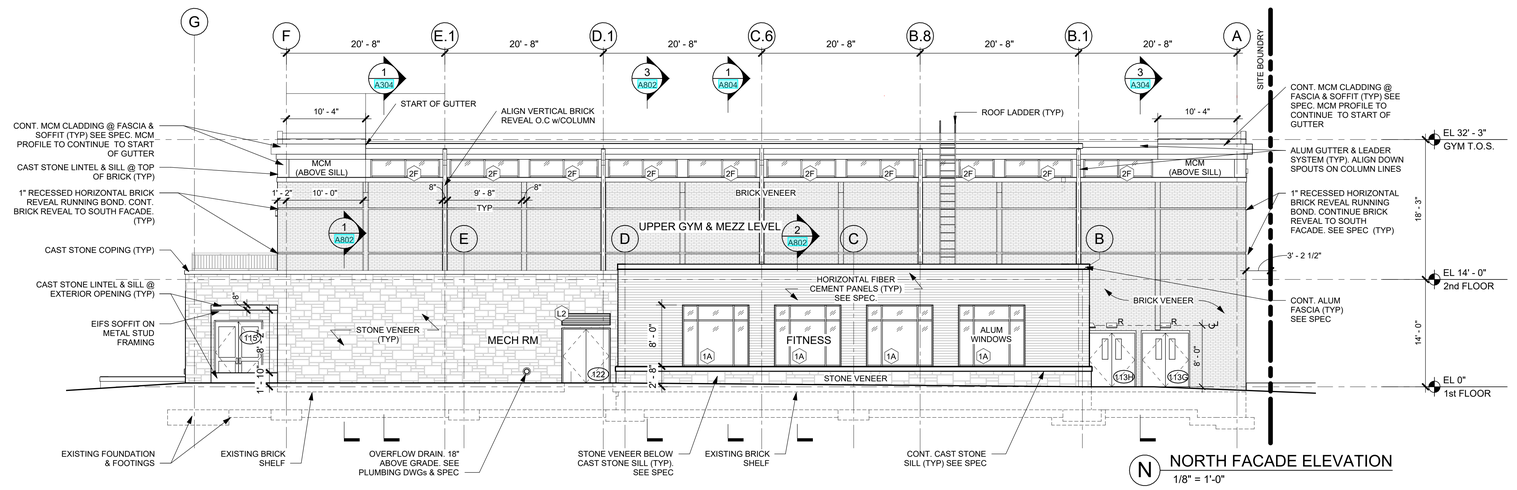
3. MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE. COORDINATE IN FIELD WITH FINAL GRADING.



S SOUTH FACADE ELEVATION
1/8" = 1'-0"



E EAST FACADE ELEVATION
1/8" = 1'-0"



N NORTH FACADE ELEVATION
1/8" = 1'-0"

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No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

EXTERIOR ELEVATIONS

Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A301

ELEVATION GENERAL NOTES

1. EXTERIOR OPENINGS (DOORS, WINDOWS, LOUVERS, ETC.) SHALL BE FULLY PERIMETER SEALED, INSULATED & CAULKED TO ADJACENT FINISH SURFACES BOTH INTERIOR & EXTERIOR OR AS DIRECTED BY MANUFACTURER, EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.

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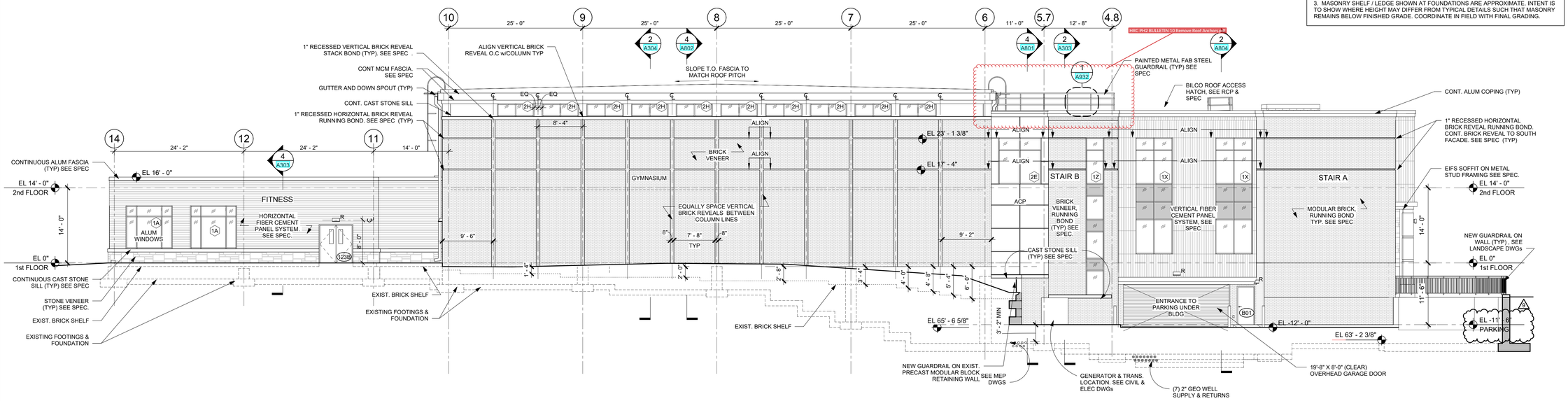

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No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

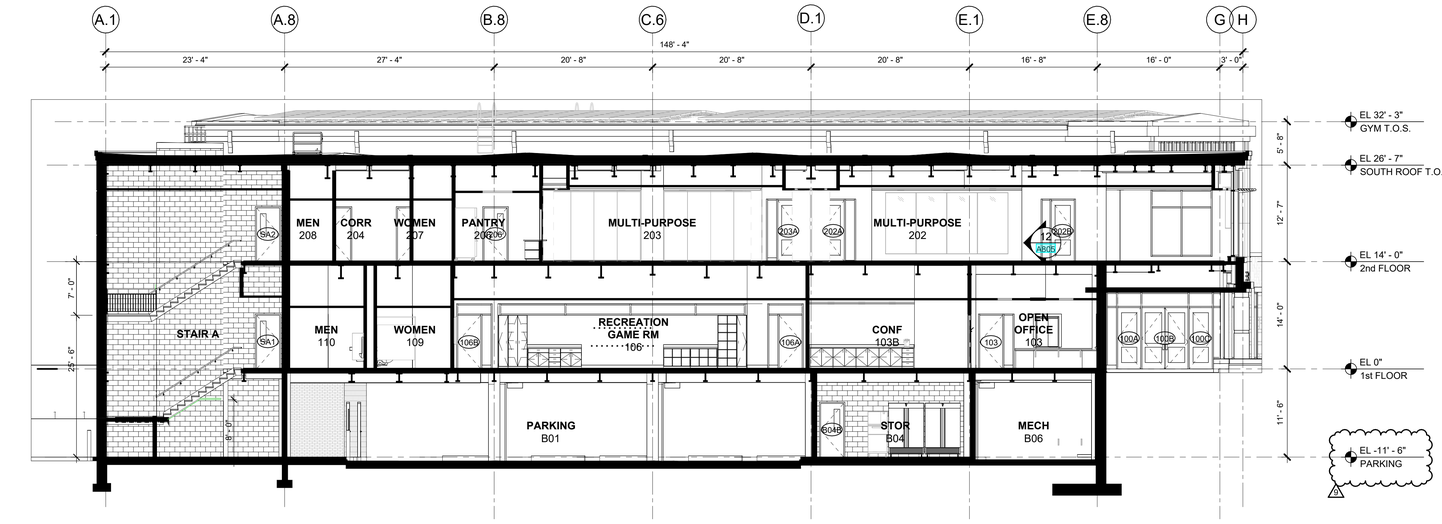
Sheet Title

EXTERIOR ELEVATIONS

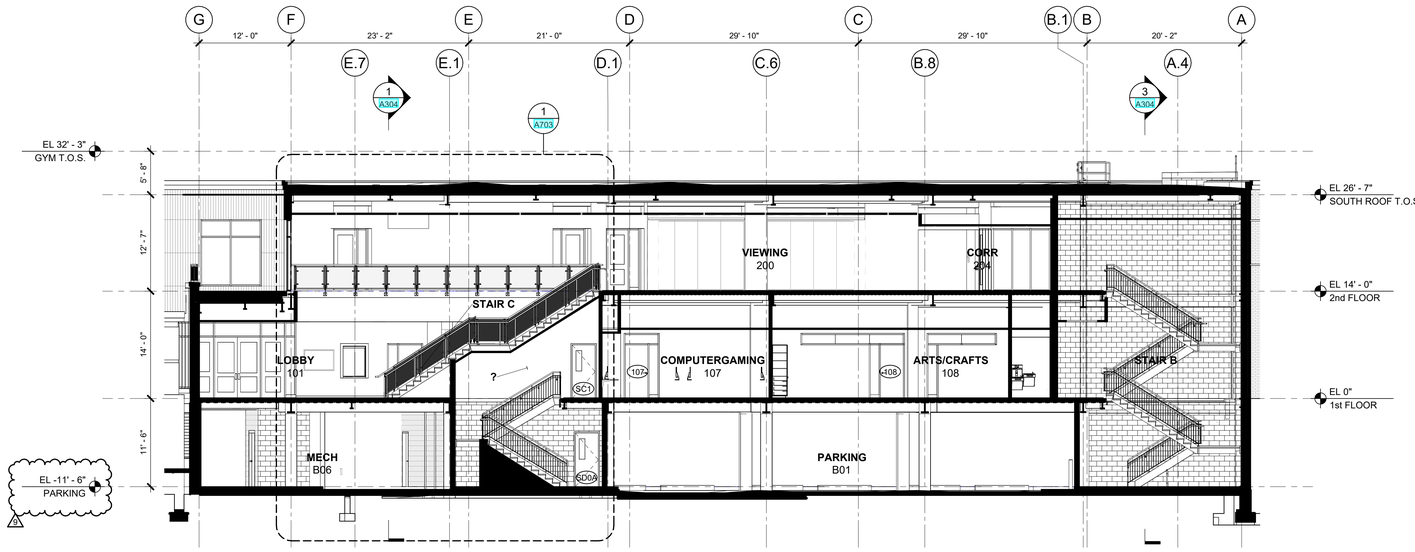
Job No.	Date
2020-1005	05/01/2023
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

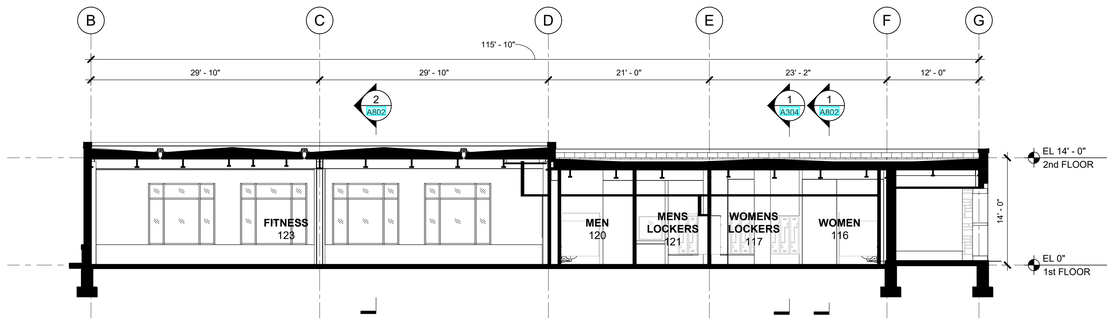
A302



1 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



4 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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Professional Seal

No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

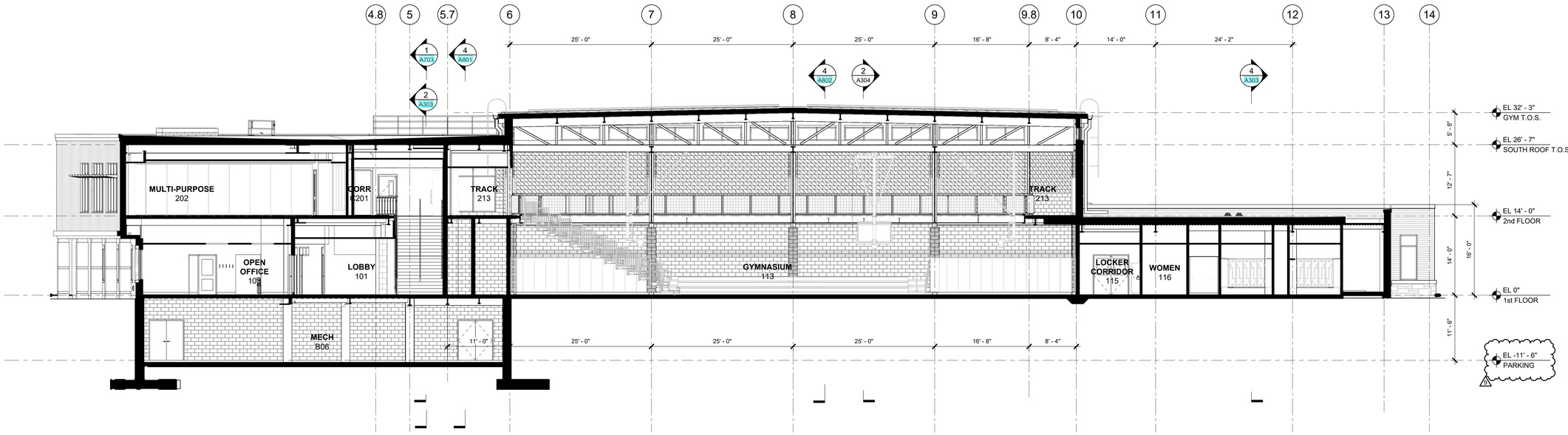
Sheet Title

BUILDING SECTIONS

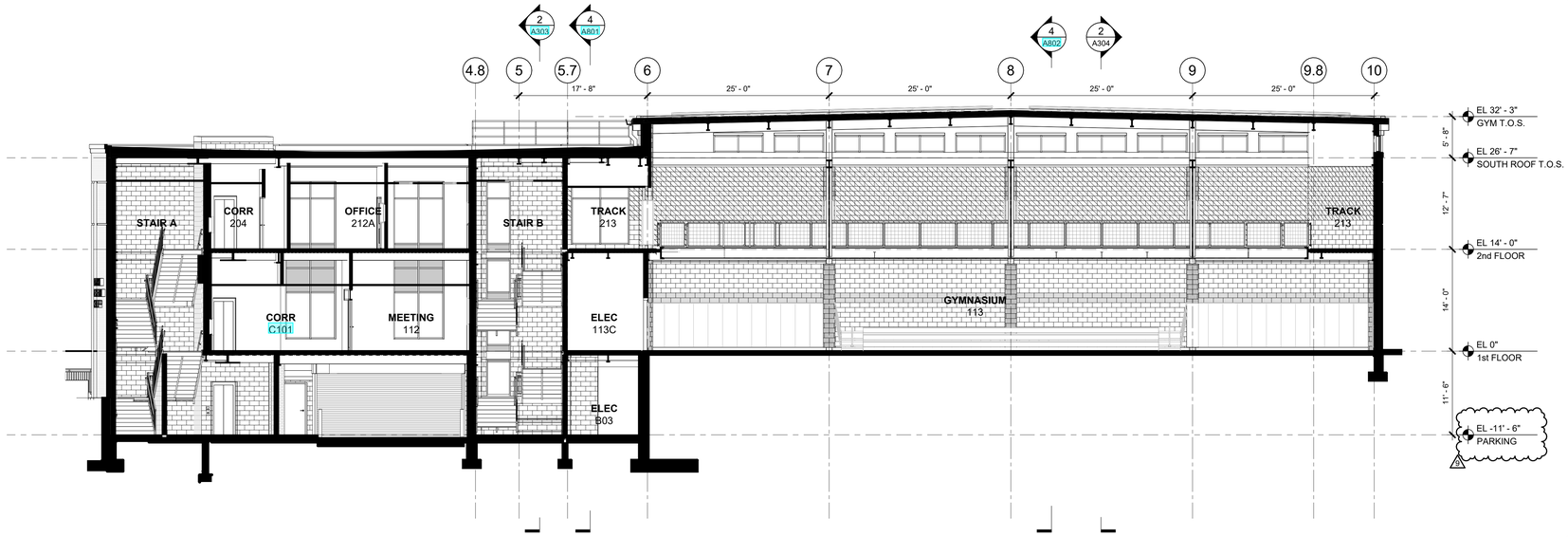
Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

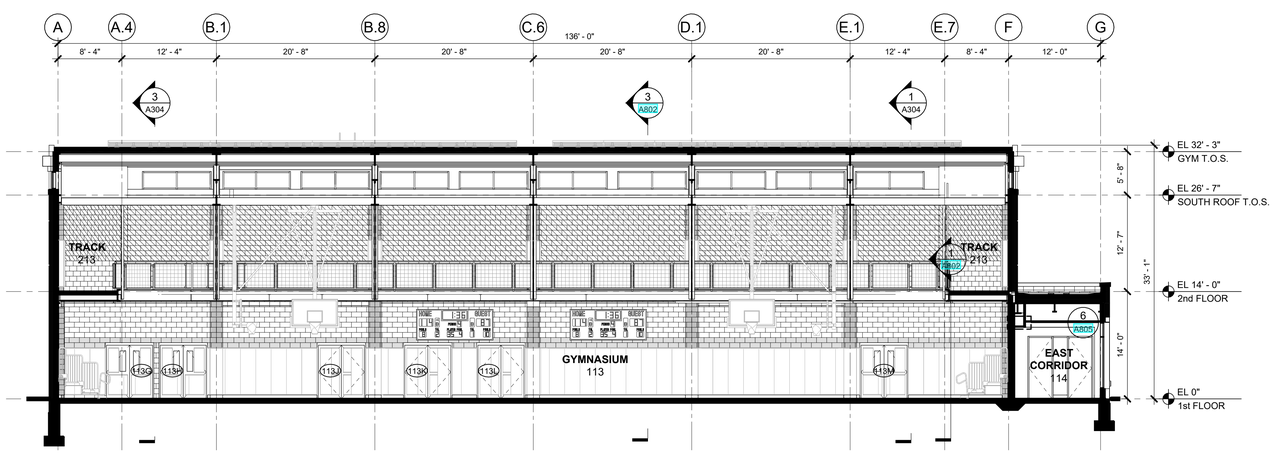
A303



1 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



3 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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Professional Seal

No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

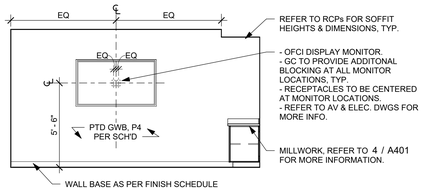
Sheet Title

BUILDING SECTIONS

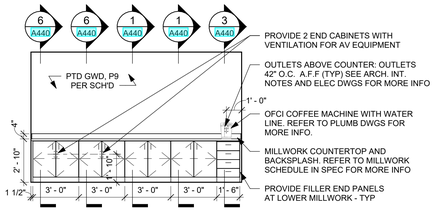
Job No. 2020-1005	Date 06/01/2020
Scale AS NOTED	Drawn / Checked

Sheet Number

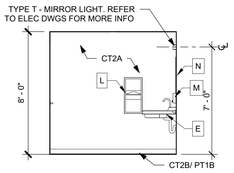
A304



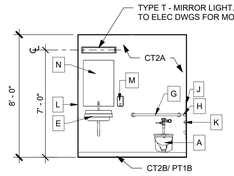
5 CONFERENCE 103B - WEST ELEVATION
1/4" = 1'-0"



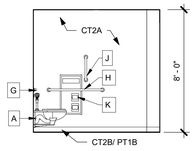
4 CONFERENCE 103B - NORTH ELEVATION
1/4" = 1'-0"



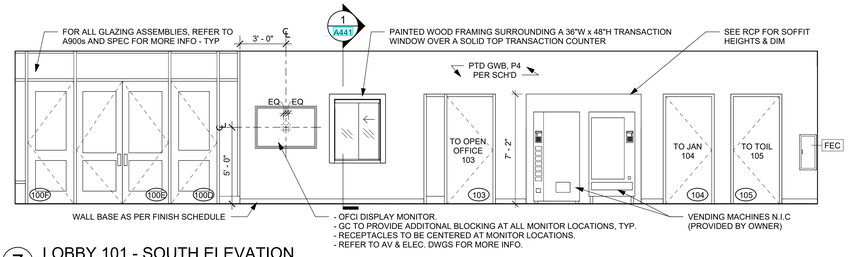
3 TOILET 105 - EAST ELEVATION
1/4" = 1'-0"



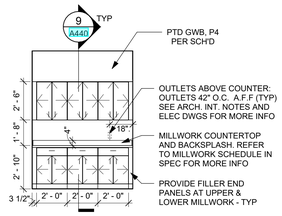
2 TOILET 105 - SOUTH ELEVATION
1/4" = 1'-0"



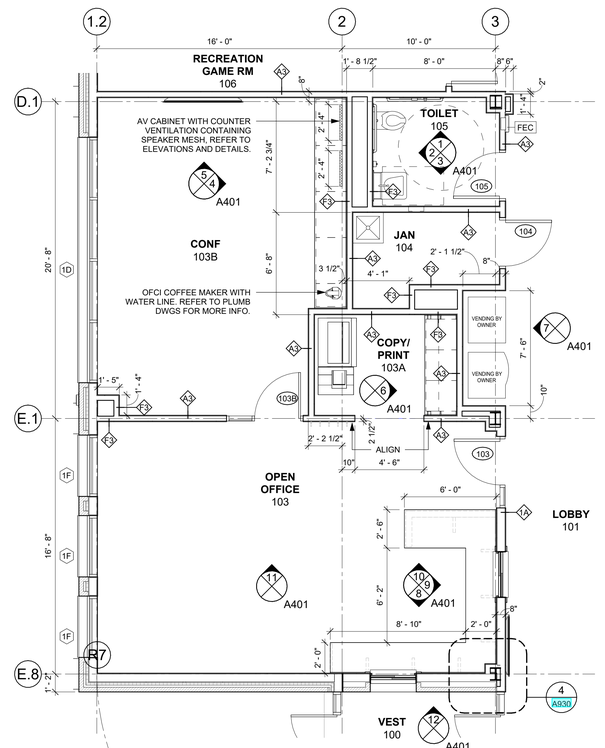
1 TOILET 105 - WEST ELEVATION
1/4" = 1'-0"



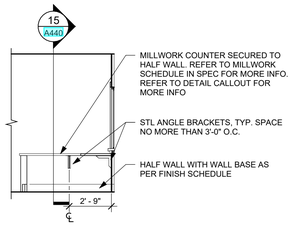
7 LOBBY 101 - SOUTH ELEVATION
1/4" = 1'-0"



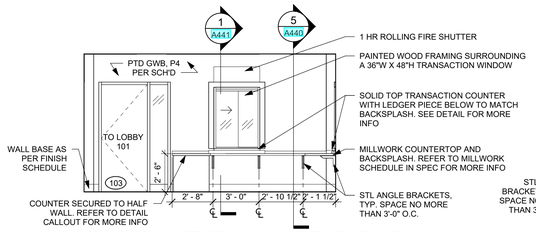
6 COPY/PRINT 103A - NORTH ELEVATION
1/4" = 1'-0"



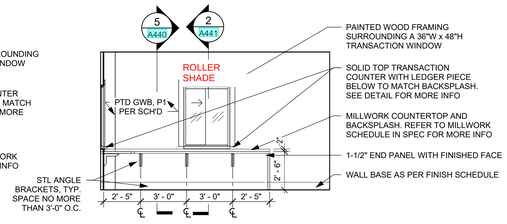
A MAIN OFFICE ENLARGED PLAN
1/4" = 1'-0"



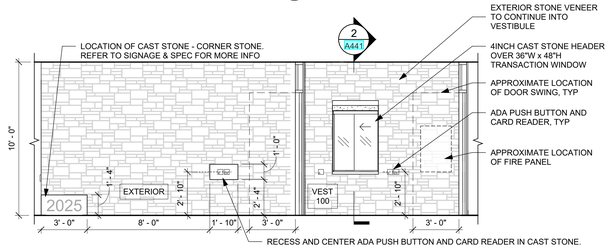
10 OFFICE 103 - WEST DESK ELEVATION
1/4" = 1'-0"



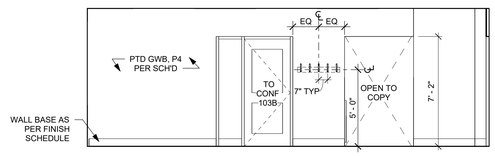
9 OPEN OFFICE 103 - NORTH ELEVATION
1/4" = 1'-0"



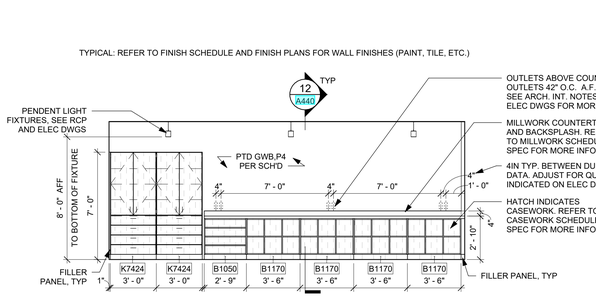
8 OPEN OFFICE 103 - EAST ELEVATION
1/4" = 1'-0"



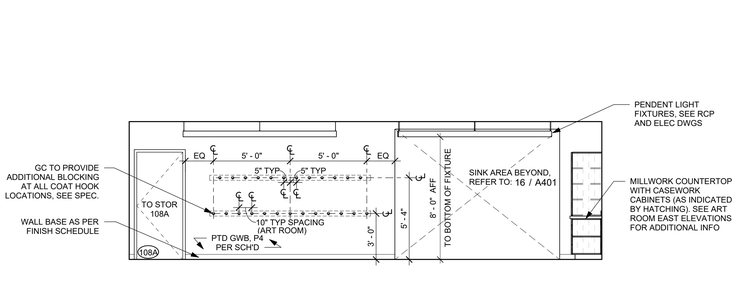
12 EXTERIOR/VESTIBULE 100 - WEST ELEVATION
1/4" = 1'-0"



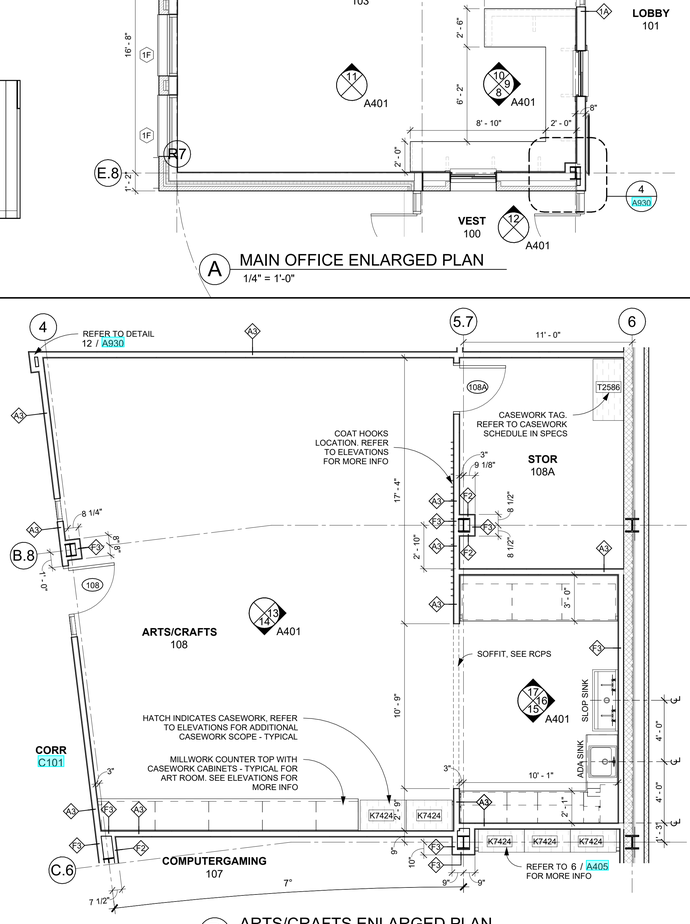
11 OPEN OFFICE 103 - WEST ELEVATION
1/4" = 1'-0"



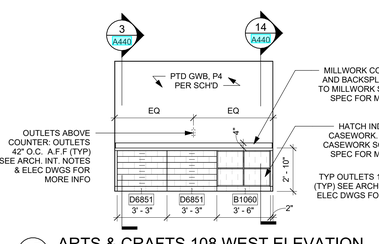
14 ARTS & CRAFTS 108 - EAST ELEVATION
1/4" = 1'-0"



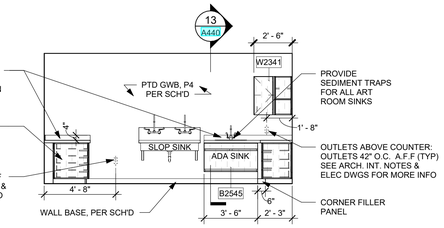
13 ARTS & CRAFTS 108 - NORTH ELEVATION
1/4" = 1'-0"



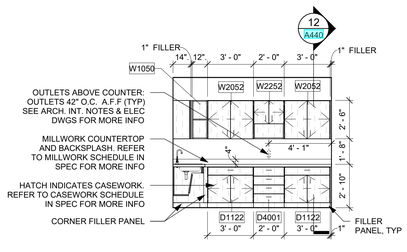
B ARTS/CRAFTS ENLARGED PLAN
1/4" = 1'-0"



17 ARTS & CRAFTS 108 WEST ELEVATION
1/4" = 1'-0"



16 ARTS & CRAFTS 108 - NORTH ELEV 2
1/4" = 1'-0"



15 ARTS & CRAFTS 108 - EAST ELEV 2
1/4" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

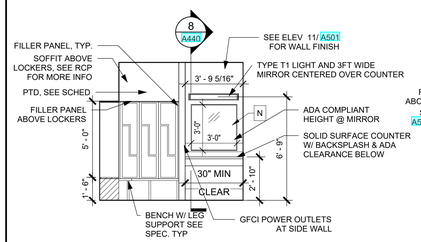
Sheet Title

ENLARGED PLANS & INTERIOR ELEVATIONS

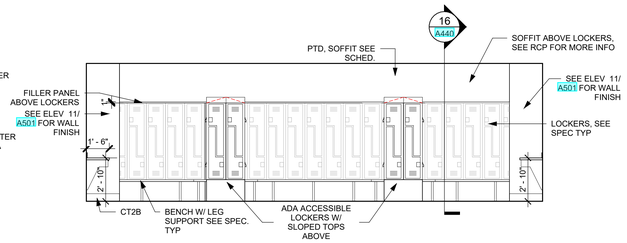
Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked

Sheet Number

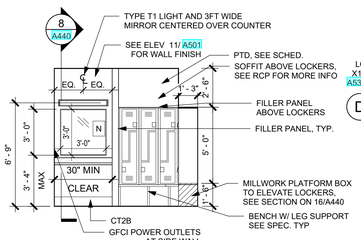
A401



3 MENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"

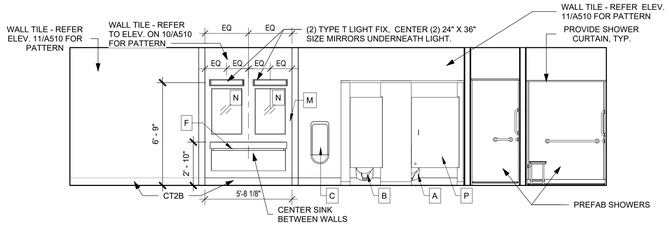


2 MENS LOCKER ROOM - EASTER ELEVATION
1/4" = 1'-0"

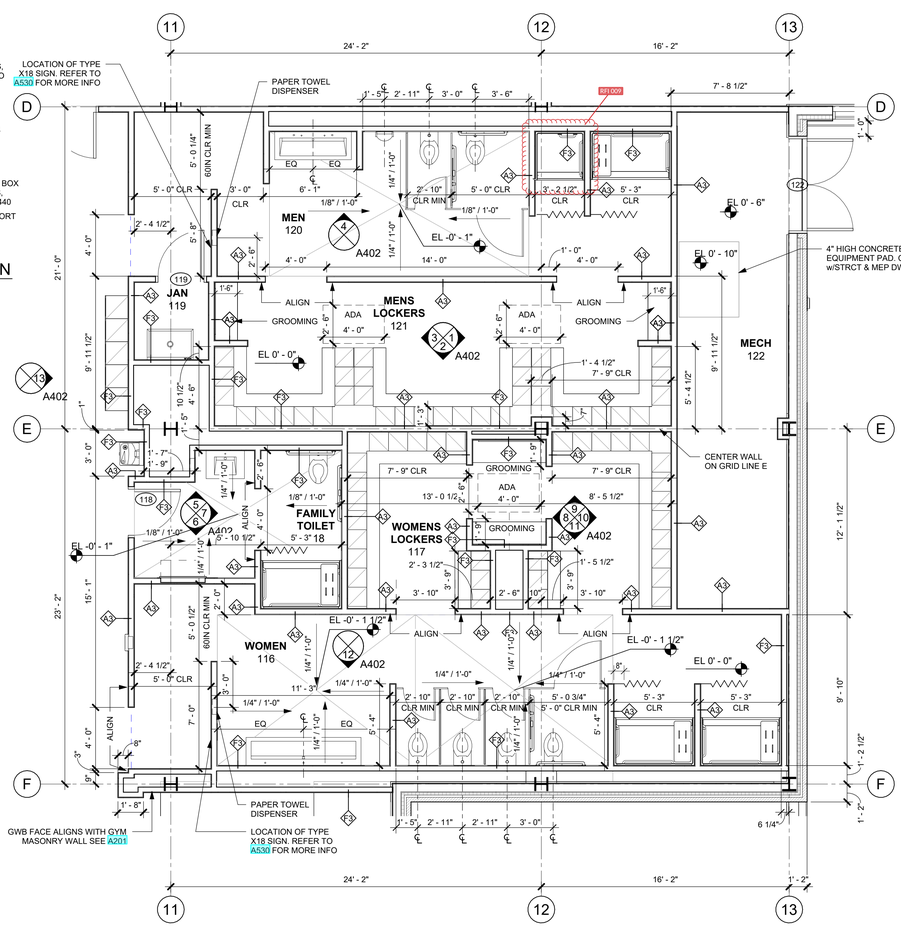


1 MENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"

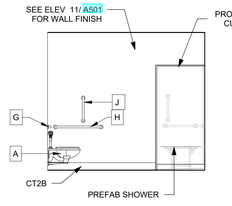
NOTE:
REFER TO SHEET 3/A410 FOR TOILET ROOM FIXTURE, ACCESORIES HEIGHT LEGEND.

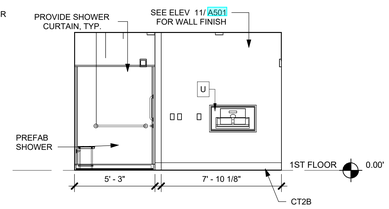


4 MEN 120 - WEST ELEVATION
1/4" = 1'-0"

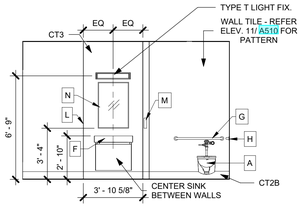


A LOCKER ROOMS ENLARGED PLAN
1/4" = 1'-0"



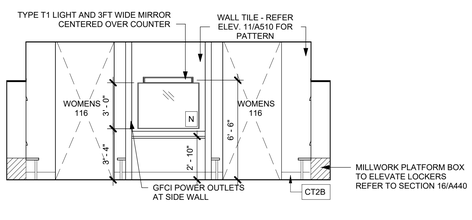


6 TOILET 118 - EAST ELEVATION
1/4" = 1'-0"

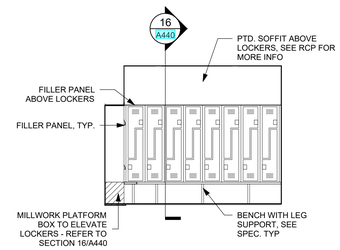


5 TOILET 118 - WEST ELEVATION
1/4" = 1'-0"

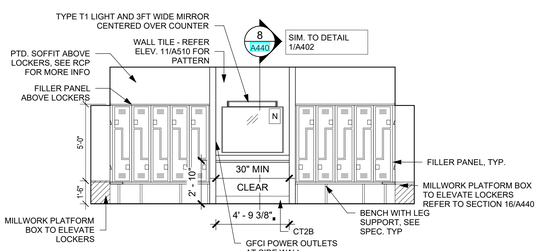
7 TOILET 118 - NORTH ELEVATION
1/4" = 1'-0"



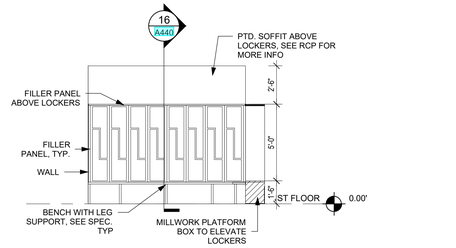
11 WOMENS LOCKER ROOM - EAST ELEVATION
1/4" = 1'-0"



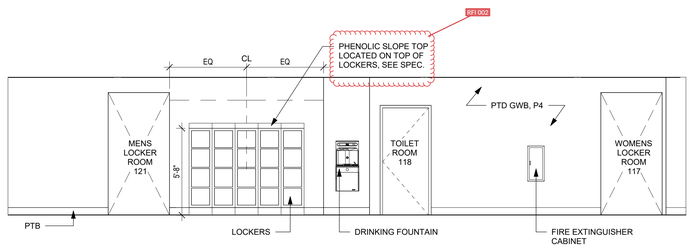
10 WOMENS LOCKER ROOM - NORTH ELEVATION
1/4" = 1'-0"



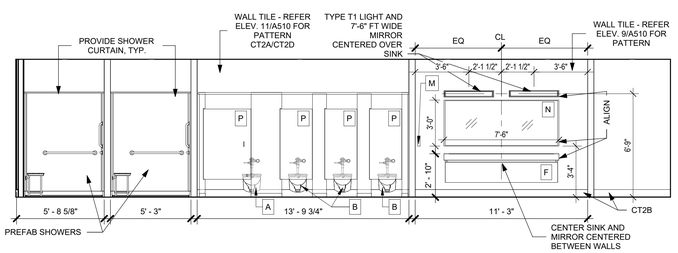
9 WOMENS LOCKER ROOM - WEST ELEVATION
1/4" = 1'-0"



8 WOMENS LOCKER ROOM - SOUTH ELEVATION
1/4" = 1'-0"



13 LOCKER CORRIDOR 115 - NORTH ELEVATION
1/4" = 1'-0"



12 WOMEN 116 - EAST ELEVATION
1/4" = 1'-0"

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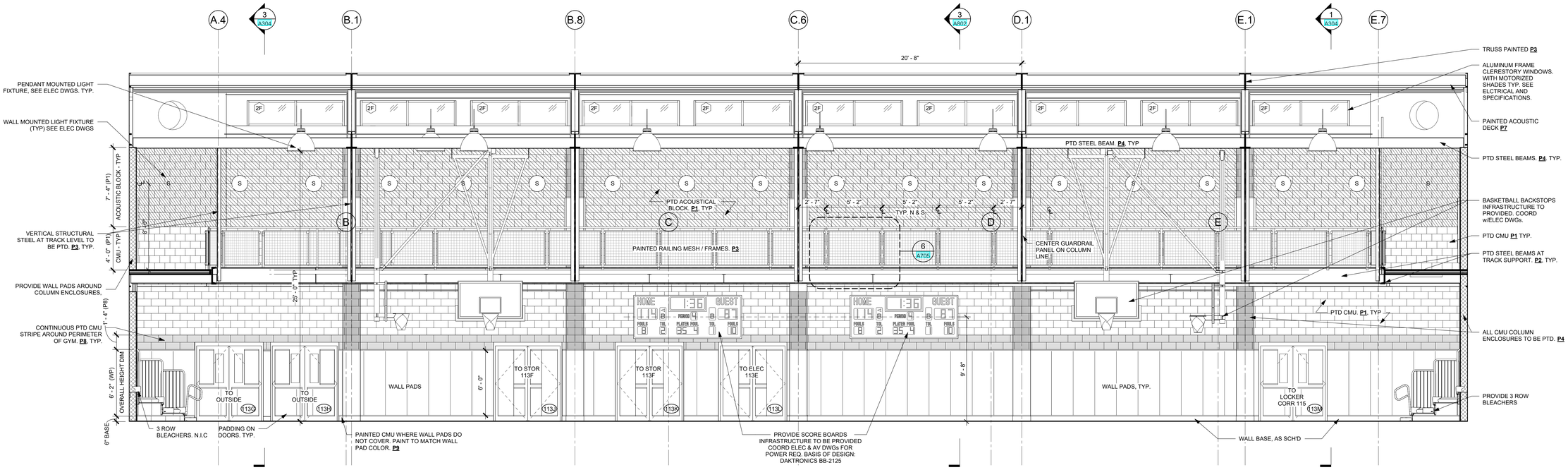
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

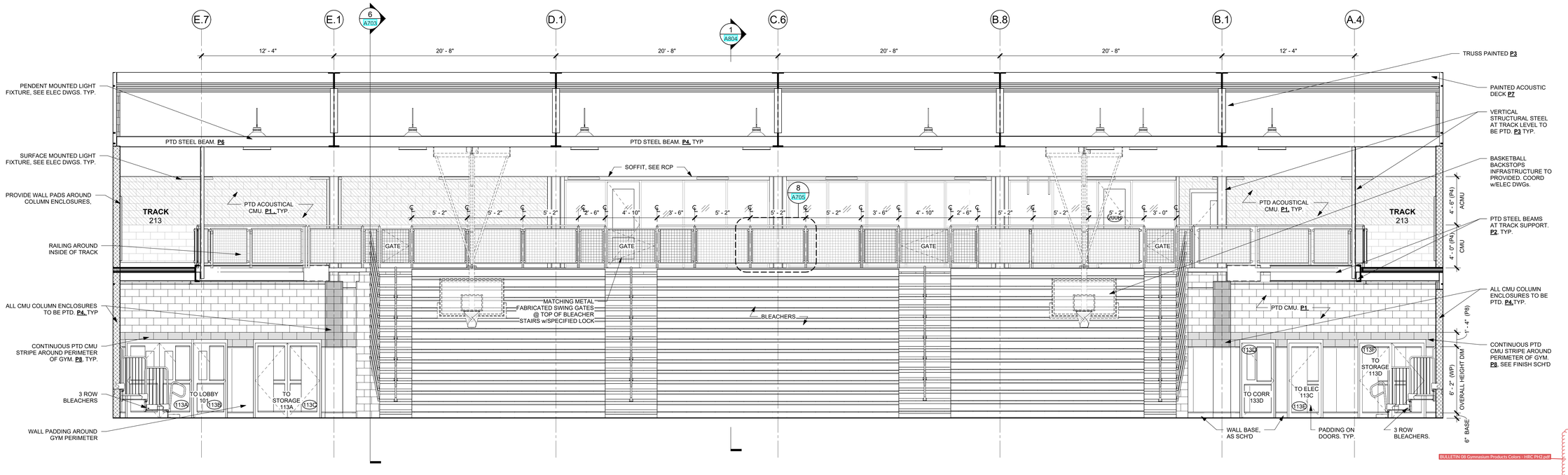
Sheet Title
LOCKER ROOM ENLARGED PLANS & INTERIOR ELEVATIONS

Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number
A402



1 GYMNASIUM NORTH ELEVATION
1/4" = 1'-0"



2 GYMNASIUM SOUTH ELEVATION
1/4" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

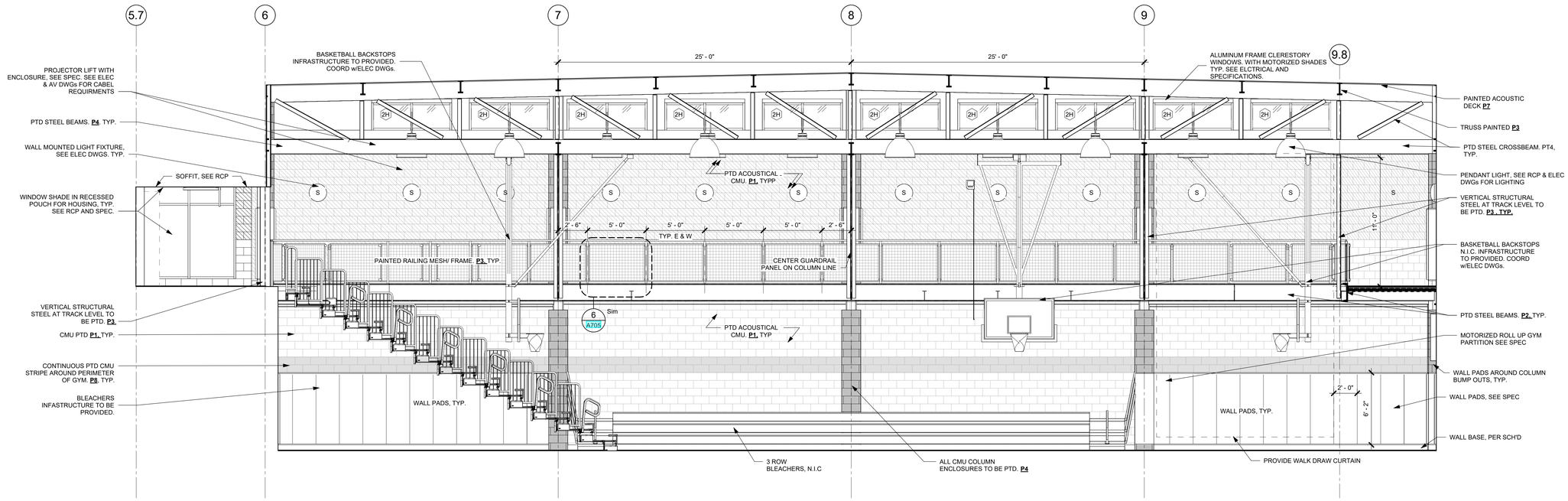
GYMNASIUM INTERIOR ELEVATIONS

Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked

Sheet Number

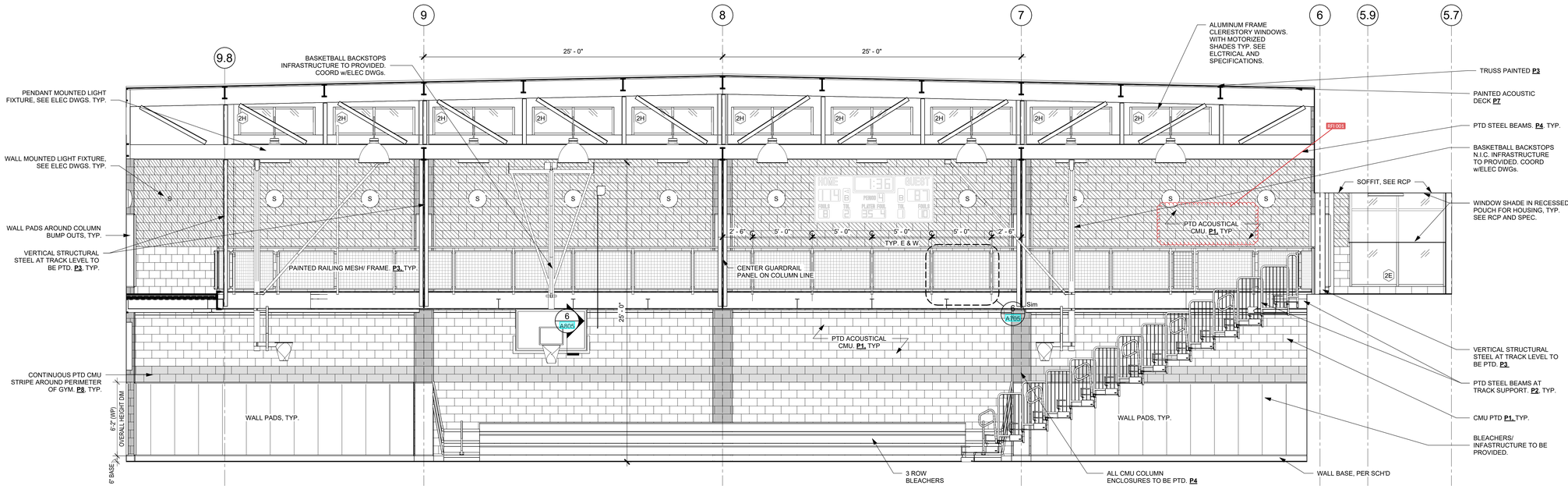
A403

BULLETIN 08 Gymnasium Products Colors - HRC PH2.pdf



2 GYMNASIUM WEST ELEVATION

1/4" = 1'-0"



1 GYMNASIUM EAST ELEVATION

1/4" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

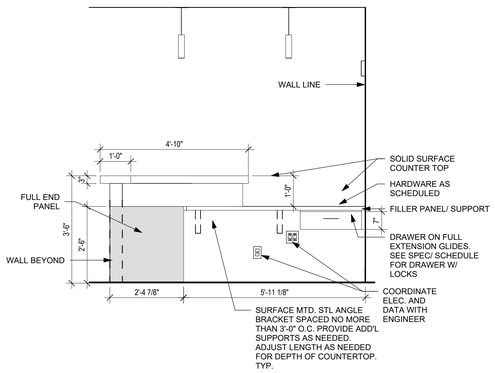
Sheet Title

GYMNASIUM INTERIOR ELEVATIONS

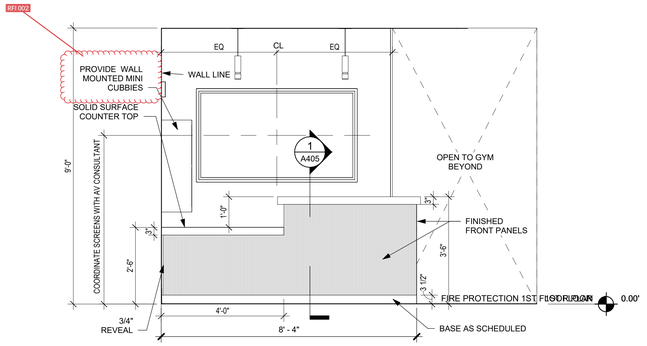
Job No.	Date
2020-1005	12/18/23
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

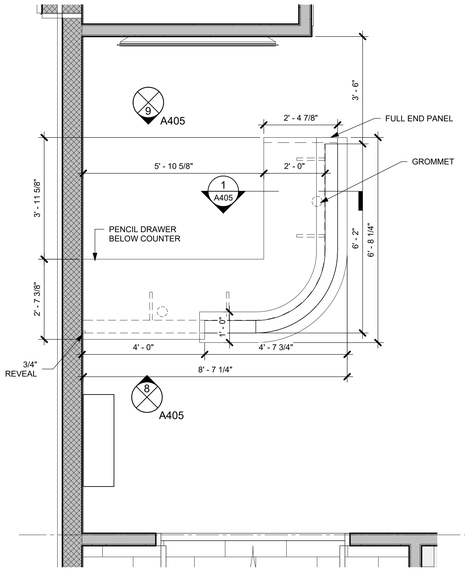
A404



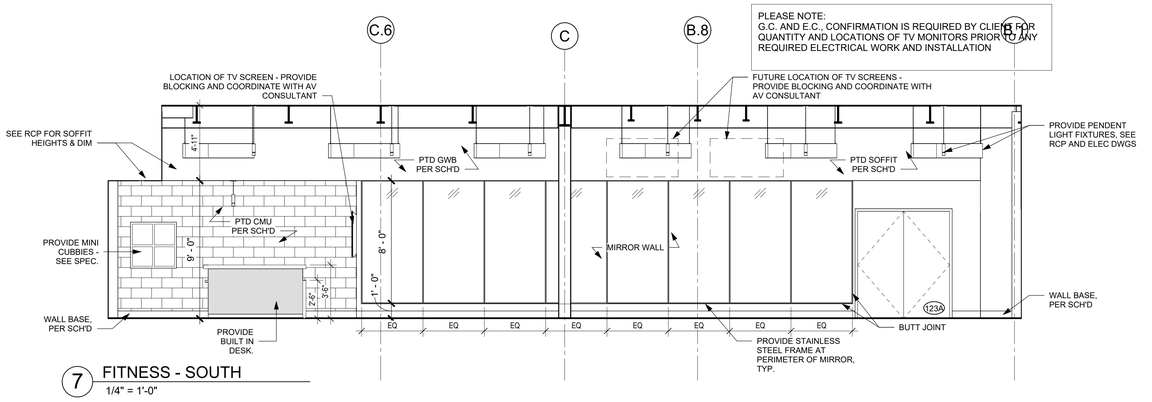
9 FITNESS 123 DESK ELEVATION
1/2" = 1'-0"



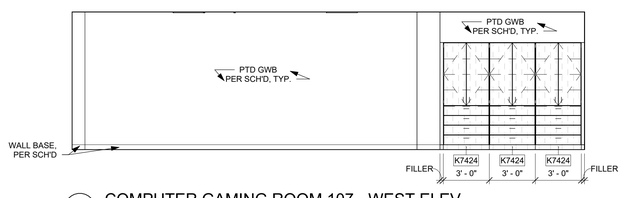
8 WEST ELEVATION @ FITNESS DESK
1/2" = 1'-0"



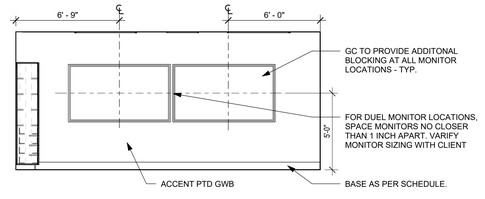
A FRONT DESK PLAN @ FITNESS 123
1/2" = 1'-0"



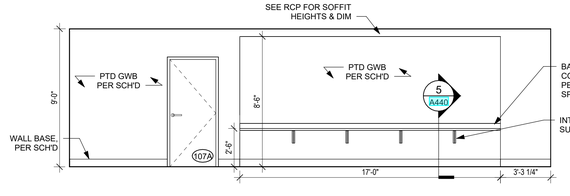
7 FITNESS - SOUTH
1/4" = 1'-0"



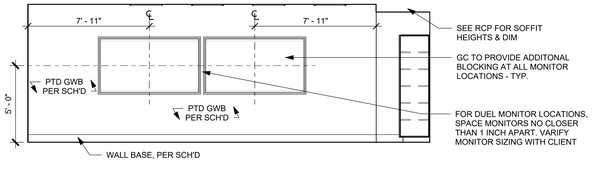
6 COMPUTER GAMING ROOM 107 - WEST ELEV
1/4" = 1'-0"



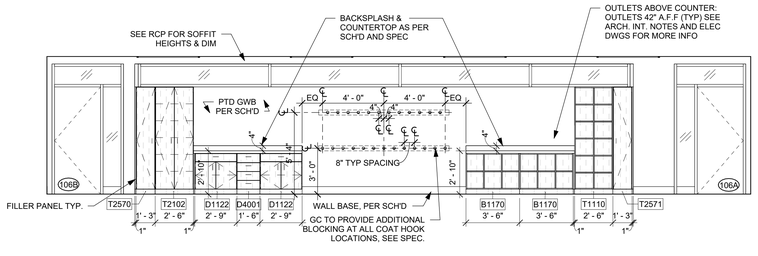
5 COMPUTER GAMING ROOM 107 - NORTH ELEV
1/4" = 1'-0"



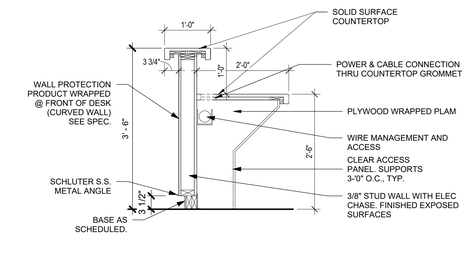
4 COMPUTER GAMING ROOM 107 - EAST ELEV.
1/4" = 1'-0"



3 RECREATION GAME ROOM 106 - WEST ELEV.
1/4" = 1'-0"



2 RECREATION GAME ROOM 106 - NORTH ELEV.
1/4" = 1'-0"



1 SECTION @ FITNESS DESK ALT OPTION
3/4" = 1'-0"

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7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

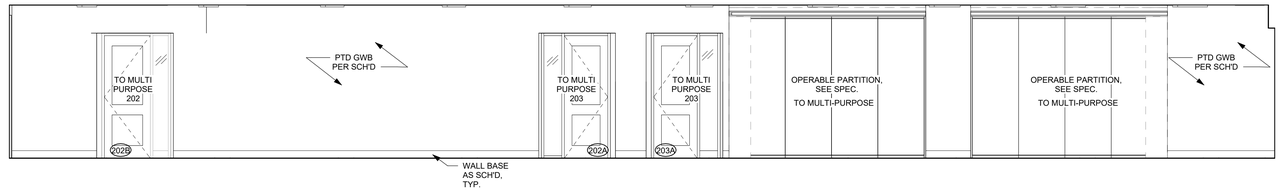
Sheet Title

1ST FLOOR INTERIOR ELEVATIONS

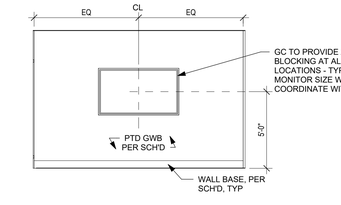
Job No.	Date
2020-1005	12/22/23
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

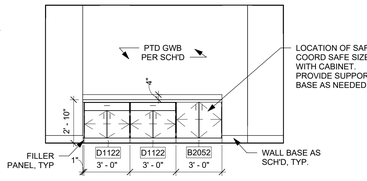
A405



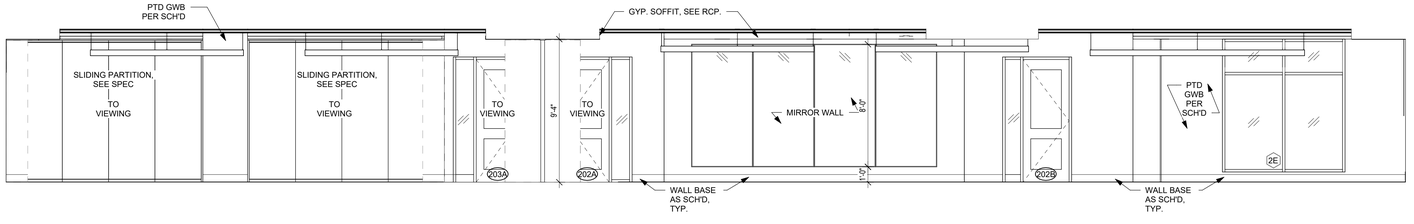
6 VIEWING 200 SOUTH ELEVATION
1/4" = 1'-0"



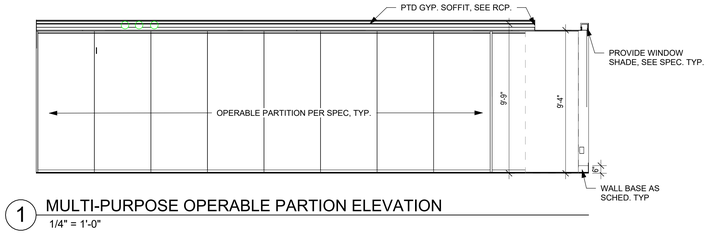
5 CONFERENCE 212B NORTH ELEVATION
1/4" = 1'-0"



4 OPEN OFFICE 212 SOUTH ELEVATION
1/4" = 1'-0"



2 MULTI-PURPOSE ROOMS NORTH ELEVATION
1/4" = 1'-0"



1 MULTI-PURPOSE OPERABLE PARTION ELEVATION
1/4" = 1'-0"

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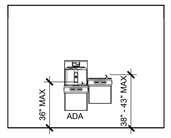
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

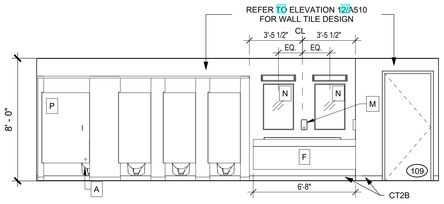
Sheet Title
2ND FLOOR ENLARGED PLANS & INTERIOR ELEVATIONS

Job No. 2020-1005	Date 12/22/23
Scale AS NOTED	Drawn / Checked Author Checker

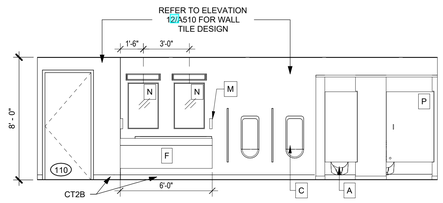
Sheet Number
A406



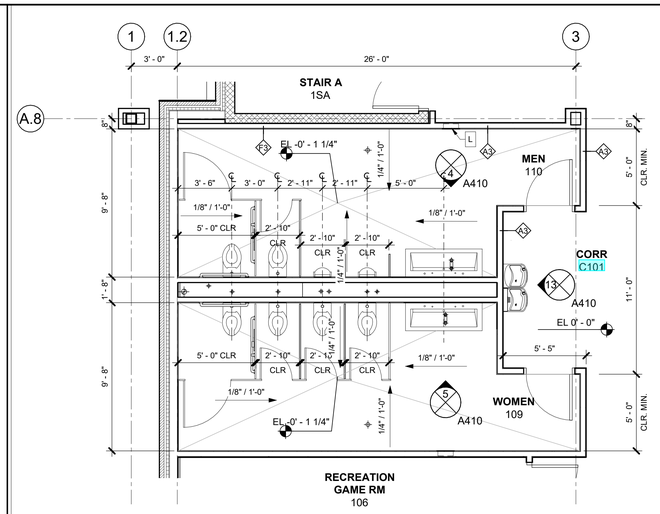
13 CORRIDOR C101 SOUTH ELEV.
1/4" = 1'-0"



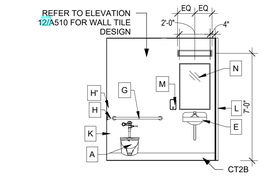
5 WOMEN 109 - WEST ELEVATION
1/4" = 1'-0"



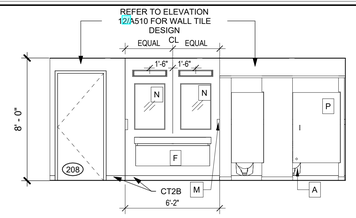
4 MEN 110 - EAST ELEVATION
1/4" = 1'-0"



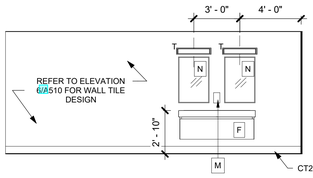
1 1ST FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"



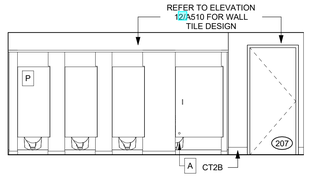
8 TOILET 211 - NORTH ELEVATION
1/4" = 1'-0"



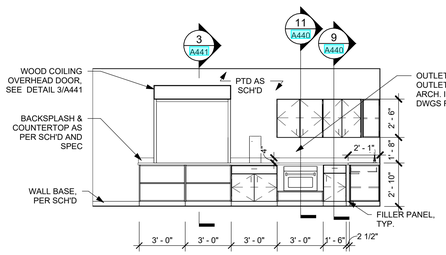
12 MEN 208 - EAST ELEVATION
1/4" = 1'-0"



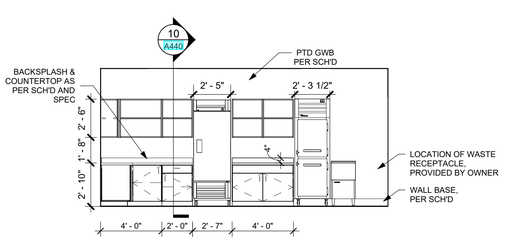
7 WOMENS 207 - EAST ELEVATION
1/4" = 1'-0"



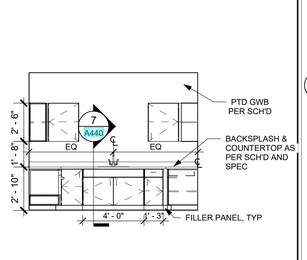
6 WOMEN 207 - WEST ELEVATION
1/4" = 1'-0"



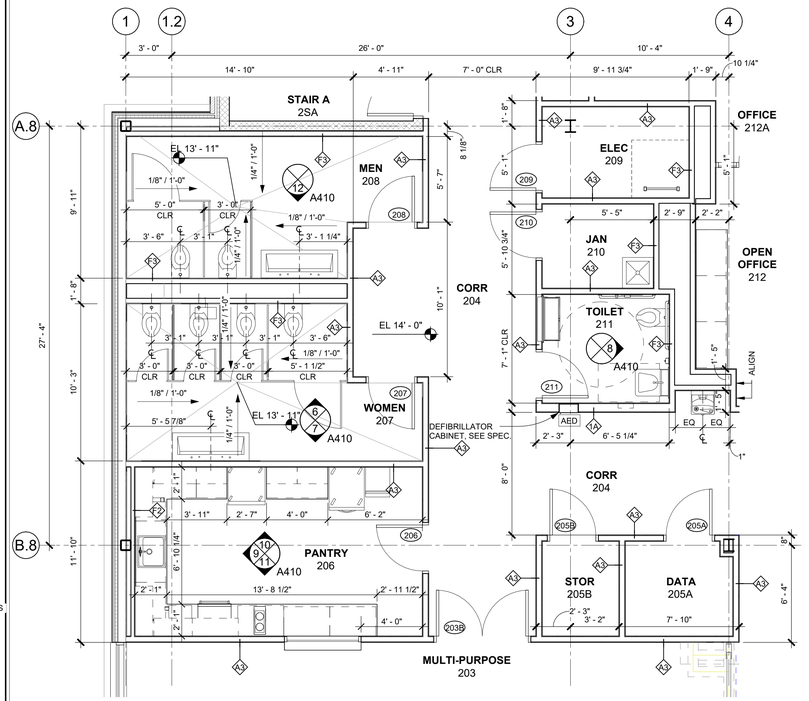
11 PANTRY 206 - EAST ELEVATION
1/4" = 1'-0"



10 PANTRY 206 - WEST ELEVATION
1/4" = 1'-0"



9 PANTRY 206 - SOUTH ELEVATION
1/4" = 1'-0"



2 2ND FLOOR MULTI-USER TOILET ROOMS
1/4" = 1'-0"

A HANDICAP WALL-HUNG TOILET
B STANDARD WALL-HUNG TOILET
C STANDARD WALL-HUNG URINAL
D ADA/CHILD WALL-HUNG URINAL
E WALL-HUNG HC LAVATORY
F LAVATORY
G REAR TOILET GRAB BAR
H SIDE TOILET GRAB BAR
J SIDE TOILET VERTICAL GRAB BAR
K TOILET PAPER ROLL DISPENSER
L HAND TOWEL ROLL DISPENSER
M SOAP DISPENSER
N WALL MIRROR
P FLOOR MTD. OVERHEAD BRACED TOILET PARTITION
Q COAT HOOK
R HAND DRYER
S SHOWER CONTROLS
T FEMININE DISPOSAL- WOMENS TOILET ROOM ONLY
U DIAPER CHANGING STATION

SEE SPECIFICATION FOR TOILET ACCESSORY SCHEDULE
PAPER, SOAP & FEMININE HYGIENE DISPENSERS BY OWNER ALL OTHER COMPONENTS BY G.C.

SEE PLUMBING SCHEDULE FOR MORE INFO.

RFI 099
3 TOILET ROOM EQUIPMENT AND HEIGHTS
1/4" = 1'-0"

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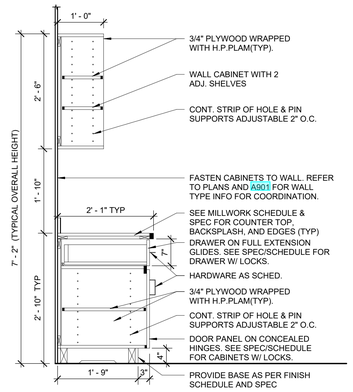
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

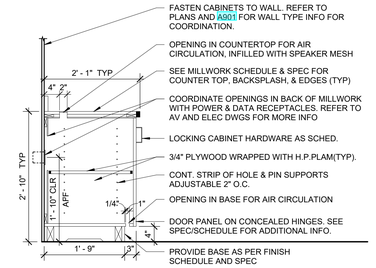
Sheet Title
TOILET ROOMS AND PANTRY - ENLARGED PLANS & INTERIOR ELEVS

Job No.	Date
2020-1005	12/22/23
Scale: AS NOTED	Drawn / Checked: Author Checker

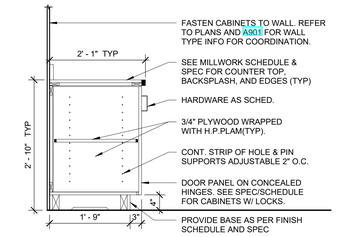
Sheet Number
A410



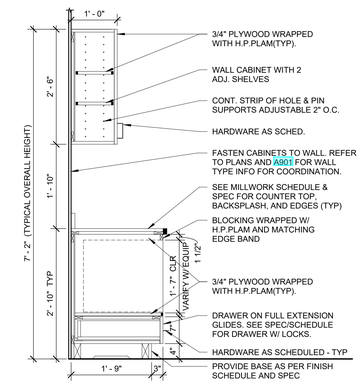
10 TYP. BASE CABINET W/ UPPER OPEN CABINET
3/4" = 1'-0"



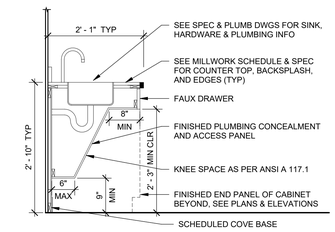
6 TYPICAL AV VENTILATED CABINET
3/4" = 1'-0"



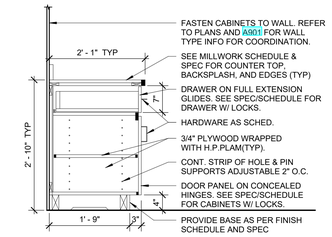
1 TYPICAL BASE CABINET WITH DOORS
3/4" = 1'-0"



11 MICROWAVE BASE CABINET W/ UPPER CABINET
3/4" = 1'-0"



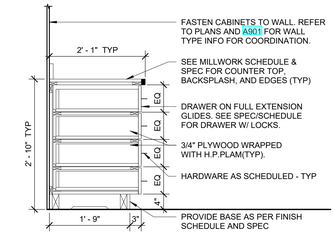
7 TYPICAL ADA SINK CONCEALMENT
3/4" = 1'-0"



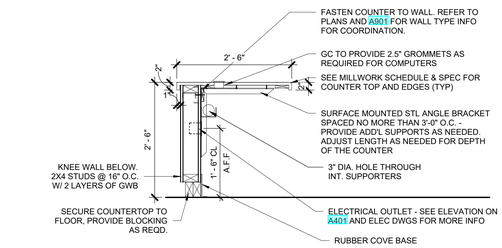
2 TYPICAL BASE CABINET WITH DOORS AND SINGLE DRAWER
3/4" = 1'-0"

16 LOCKER MILLWORK/ BENCH
3/4" = 1'-0"

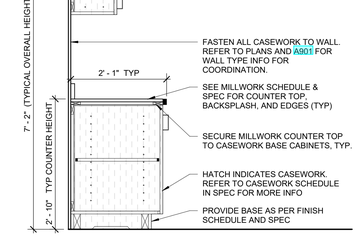
8 LOCKER ROOM GROOMING STATIONS
3/4" = 1'-0"



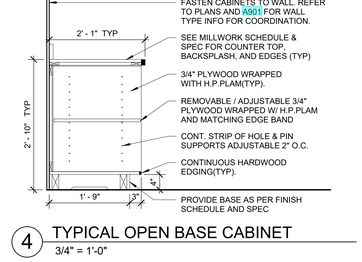
3 TYPICAL BASE CABINET WITH DRAWERS
3/4" = 1'-0"



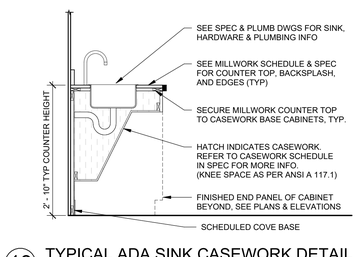
15 COUNTER WITH BRACKETS TYP.
3/4" = 1'-0"



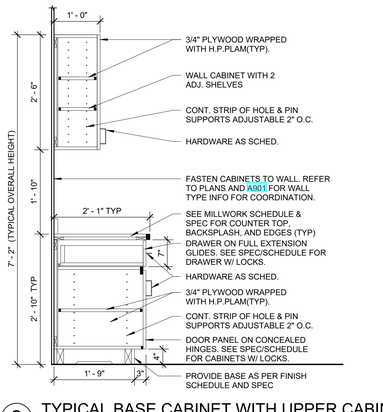
12 TYP. MILLWORK COUNTER W/ CASEWORK
3/4" = 1'-0"



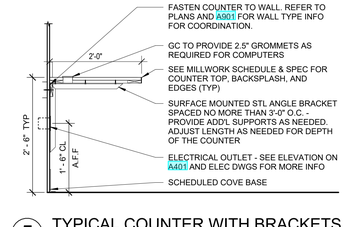
4 TYPICAL OPEN BASE CABINET
3/4" = 1'-0"



13 TYPICAL ADA SINK CASEWORK DETAIL
3/4" = 1'-0"



9 TYPICAL BASE CABINET WITH UPPER CABINET
3/4" = 1'-0"



5 TYPICAL COUNTER WITH BRACKETS
3/4" = 1'-0"

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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KG+D listen imagine build

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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

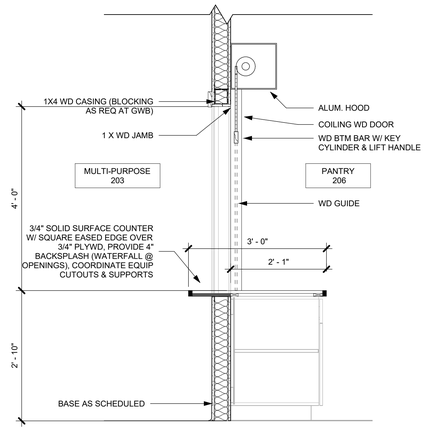
Sheet Title

MILLWORK DETAILS

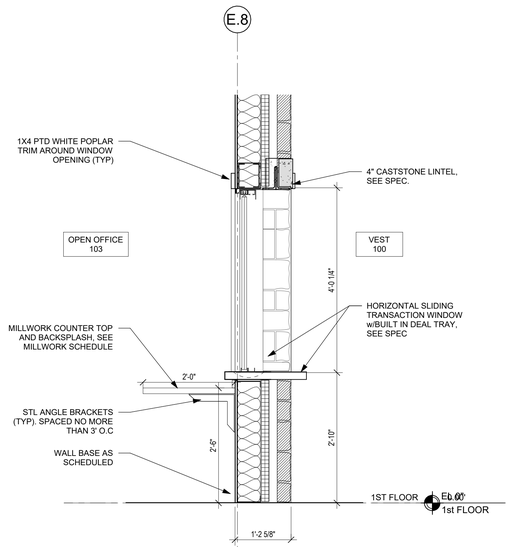
Job No. 2020-1005	Date 06/01/2020
Scale AS NOTED	Drawn / Checked - -

Sheet Number

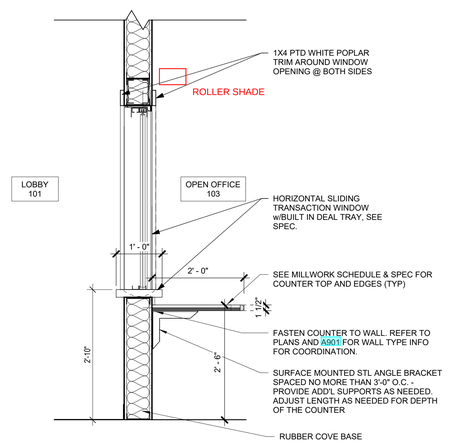
A440



3 PANTRY 206 COUNTER DETAIL
3/4" = 1'-0"



2 TRANSACTION WINDOW @ VEST 1
3/4" = 1'-0"



1 TRANSACTION WINDOW @ OPEN OFFICE 103
3/4" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MILLWORK DETAILS

Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A441

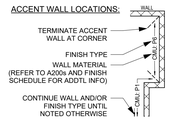
FINISH PLAN LEGEND

LVT1 — TAG INDICATES FLOOR FINISH TYPE.

FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)

NOTE: MORE FINISHES ARE NOTED THROUGHOUT THE DRAWINGS AS WELL AS ON THE FINISH SCHEDULE AND IN THE SPECIFICATIONS.

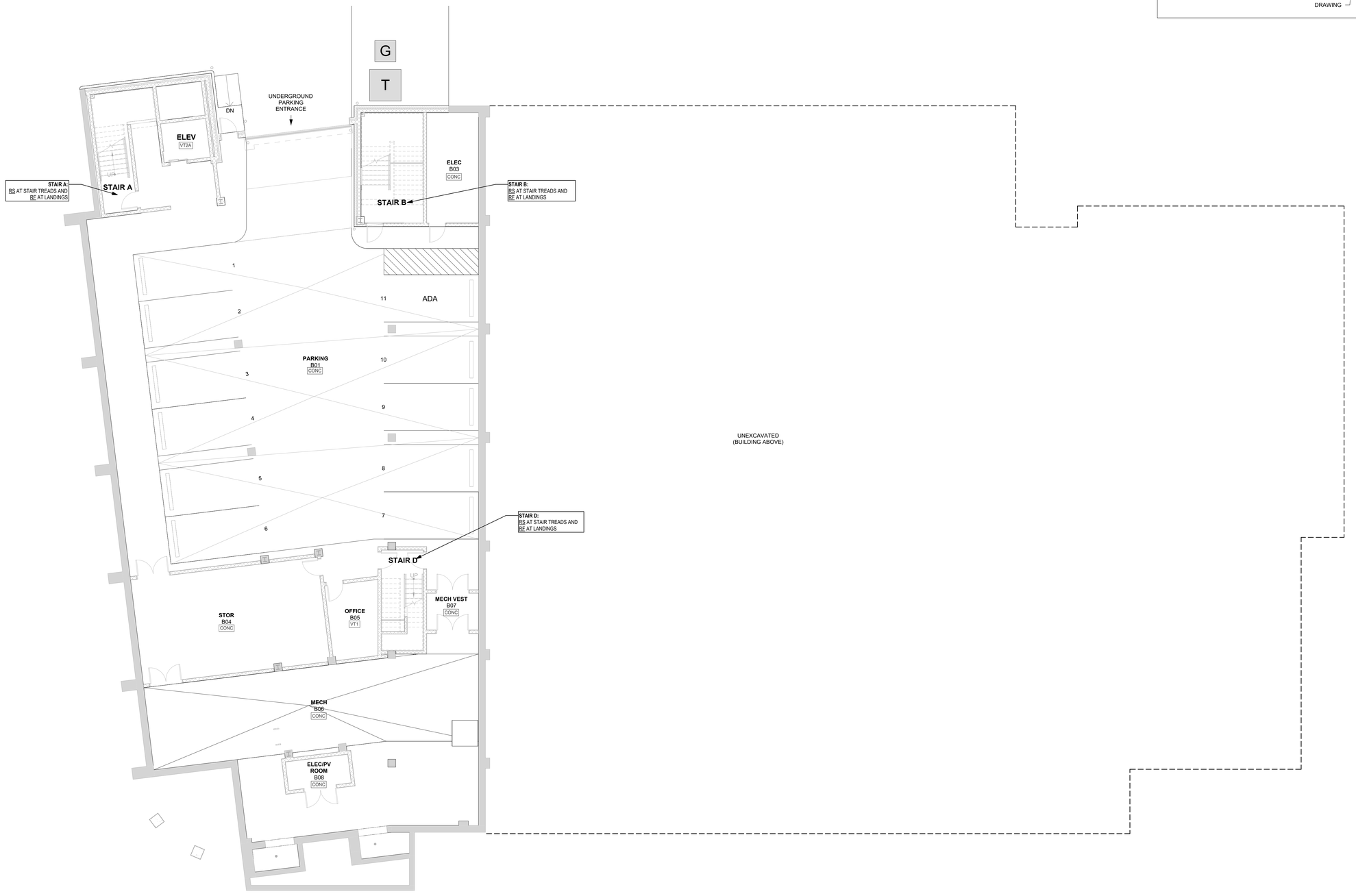
ACCENT WALL LOCATIONS:



REFERENCED ACCENT TILE LOCATIONS:

3 / A510

DRAWING — PAGE #



PROJECT NORTH

TRUE NORTH

HARRISON RECREATION & COMMUNITY CENTER

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

LOWER LEVEL FINISH PLAN

Job No.	Date
2020-1005	12/27/23
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A501

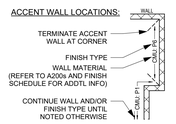
FINISH PLAN LEGEND

LVT1 — TAG INDICATES FLOOR FINISH TYPE.

FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)

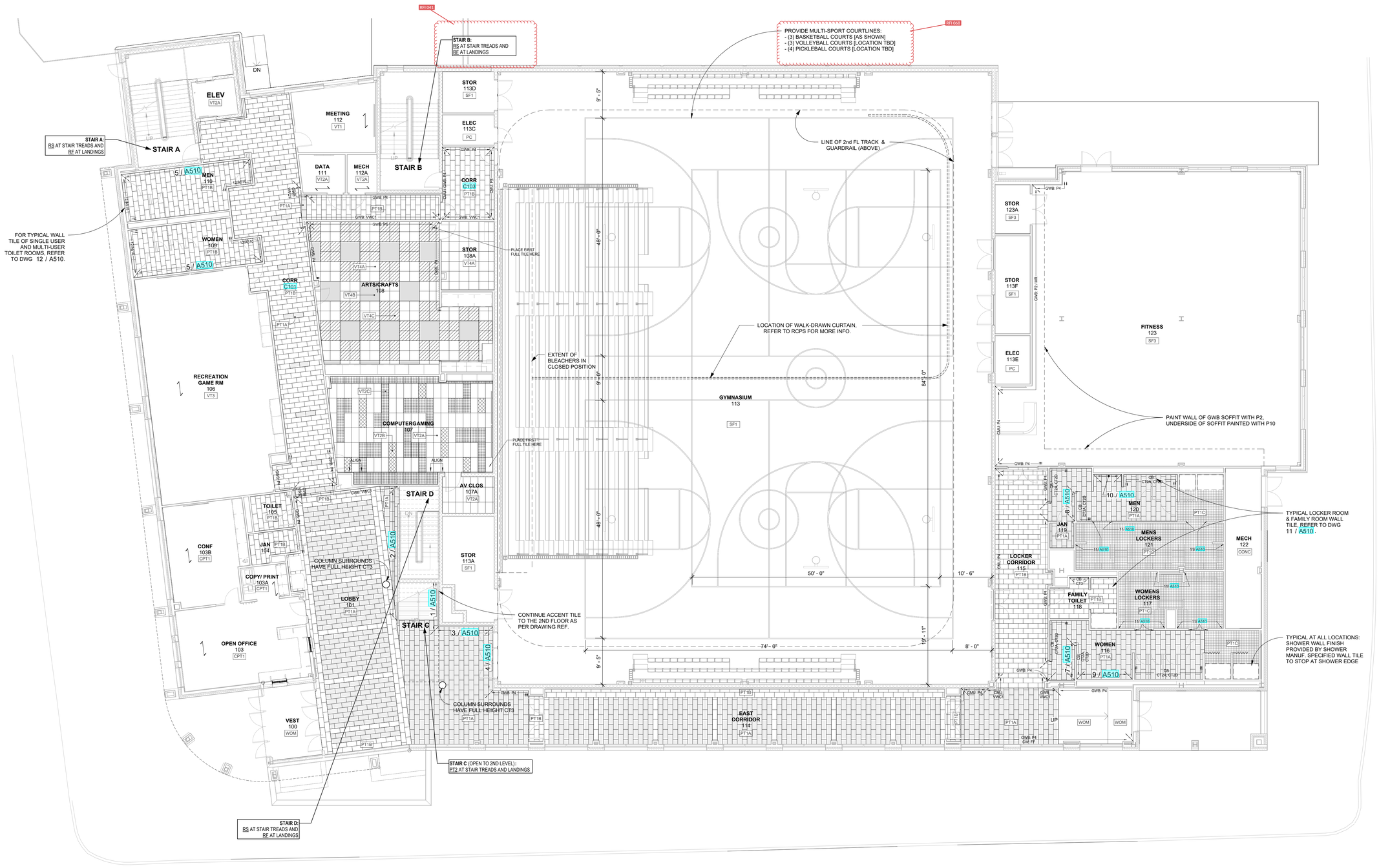
NOTE: MORE FINISHES ARE NOTED THROUGHOUT THE DRAWINGS AS WELL AS ON THE FINISH SCHEDULE AND IN THE SPECIFICATIONS.

ACCENT WALL LOCATIONS:



REFERENCED ACCENT TILE LOCATIONS:

3 / A510 — DRAWING / PAGE #



1 1st FLOOR LEVEL FINISH PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

FLOOR PATTERN LEGEND FOR VINYL TILE:

- VT4A
- VT4B
- VT4C
- VT2A
- VT2B
- VT2C

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

1st FLOOR PLAN FINISH PLAN

Job No.	Date
2020-1005	12/27/23
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A502

FINISH PLAN LEGEND

LVT1 — TAG INDICATES FLOOR FINISH TYPE.

FLOOR FINISH ORIENTATION (LENGTH TO FOLLOW ARROW)

NOTE: MORE FINISHES ARE NOTED THROUGHOUT THE DRAWINGS AS WELL AS ON THE FINISH SCHEDULE AND IN THE SPECIFICATIONS.

ACCENT WALL LOCATIONS:

WALL
TERMINATE ACCENT WALL AT CORNER
FINISH TYPE
WALL MATERIAL (REFER TO A200s AND FINISH SCHEDULE FOR ADDTL INFO)
CONTINUE WALL AND/OR FINISH TYPE UNTIL NOTED OTHERWISE
CMU: P6
CMU: P1

REFERENCED ACCENT TILE LOCATIONS:

3 / A510
DRAWING
PAGE #

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

2nd FLOOR PLAN FINISH PLAN

Job No.	Date
2020-1005	12/27/23
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A503

RFI 042
RFI 054
RFI 057
RFI 064
RFI 088
RFI 072
RFI 093
RFI 098

Finish Schedule

ROOM #	ROOM NAME	FLOOR FIN	FLOOR BASE	NORTH WALL MAT	NORTH WALL FIN	EAST WALL MAT	EAST WALL FIN	SOUTH WALL MAT	SOUTH WALL FIN	WEST WALL MAT	WEST WALL FIN	CEILING MAT	CEILING FIN	COMMENTS
PARKING														
B01	PARKING	CONC	-	EX	-	EX	-	EX	-	EX	-	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B02	PARKING	CONC	-	EX	-	EX	-	EX	-	EX	-	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B02A	OPEN VEST	CONC	-	CMU	EPO	- / CMU	- / EPO	CMU	EPO	CMU	EPO	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B03	ELEC	CONC	-	EX	P4	CMU	EPO	CMU	EPO	EX / CMU	EPO	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B04	STOR	CONC	RB3	CMU	P4	CMU	EPO	EX	EPO	CMU	EPO	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B05	OFFICE	VT1	RB2	CMU	P4	CMU	P4	CMU	P1	CMU	P4	ACT1	FF	
B06	MECH	CONC	-	EX	P4	EX / CMU	P4	EX	P4	CMU	P4	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B07	MECH VEST	CONC	-	EX	P4	CMU	P4	CMU	P4	CMU	P4	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
B08	ELEC/PV ROOM	CONC		CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	- , P7	OTS ON PARKING LEVEL = CLOSED CELL SPRAY FOAM INSULATION ON ALL STEEL BEAMS WITH PAINTED DECKING
BSA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1	RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS
BSB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1	RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS
BSD	STAIR D	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10, P1	RS AT STAIR TREADS AND RF AT LANDINGS - PAINTED STRUCTURE, P10 UNDER LANDING, P1 UNDER STAIRS
No. 1	ELEV	VT2A	RB2	-	-	-	-	-	-	-	-	-	-	ELEV MANUF. TO PROVIDE WALL AND CEILING FINISHES
1st FLOOR														
1SA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1 / OTS	FF / P1	REFER TO RCPS FOR ACT LOCATION - P1 UNDER STAIR ASSEMBLY
1SB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1 / OTS	FF / P1	REFER TO RCPS FOR ACT LOCATION - P1 UNDER STAIR ASSEMBLY
1SC	STAIR C	PT2	-	-	-	-	-	-	-	-	-	-	-	FOR WALL AND CEILING FINISHES, REFER TO ROOMS LOBBY AND VIEWING
1SD	STAIR D	RF / RS	RB2	CMU	P4	CMU	P4	GWB	P4	GWB	P4	GWB	P10	GWB CEILING MOUNTED TO THE BOTTOM OF STAIR C (FOLLOWS THE SLOPE OF STAIRS C)
100	VEST	WOM	RB2	CW	FF	CW	FF	CW	FF	SV	FF	GWB	P10	
101	LOBBY	PT1A, PT1B	PTB / CT1F	CB / GWB	(A510 ACCENTS) / P4	GWB / CW	P4 / FF	GWB / CW	P4 / FF	CB / GWB	(A510 ACCENTS), VWC1	ACT1 / GWB	FF / P10	REFER TO A502 AND A510 FOR TILE ACCENT WALLS
103	OPEN OFFICE	CPT1	RB2	GWB	P4	GWB	P1	GWB	P4	GWB	P4	ACT1	FF	
103A	COPY/ PRINT	CPT1	RB2	GWB	P4	- / GWB	- / P4	GWB	P4	GWB	P4	ACT1	FF	
103B	CONF	CPT1	RB2	GWB	P9, P4	GWB	P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10	P9 ACCENT AT MILLWORK BACK WALL
104	JAN	PT1B	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	ACT1	FF	
105	TOILET	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	GWB	EPO	REFER TO 12/A510 FOR THE TYPICAL TOILET ROOM TILED WALL
106	RECREATION GAME RM	VT3	RB2	GWB	P9, P4	GWB	P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10	P9 ACCENT AT MILLWORK BACK WALL
107	COMPUTERGAMING	VT2A, VT2B, VT2C	RB2	GWB	VWC2	GWB	P2, P4	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10	P2 ACCENT AT COUNTER NOOK BACK WALL
107A	AV CLOS	VT2B	RB3	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF	
108	ARTS/CRAFTS	VT4A, VT4B, VT4C	RB2	GWB	P4	GWB	P4	GWB	P4	GWB	P6, P4	ACT1	FF	P6 ACCENT AS PER A502
108A	STOR	VT4A	RB2	CMU	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
109	WOMEN	PT1B	CT2B 6"	CB	CT2A FH	CB	(A510 ACCENT)	CB	CT2A FH	CB	CT2A FH	GWB	EPO	REFER TO A502 AND A510 FOR TILE WALL INFO
110	MEN	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	(A510 ACCENT)	GWB	EPO	REFER TO A502 AND A510 FOR TILE WALL INFO
111	DATA	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
112	MEETING	VT1	RB2	GWB	P9	GWB	P4	GWB	P4	GWB	P4	GWB	P10	P9 ACCENT AT MONITOR/AV WALL
112A	MECH	VT2A	RB3	CMU	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
113	GYMNASIUM	SF1	RB1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	CMU / ACMU	WP 74" : P8, P4, P1 / P1	OTS : AD	P3, P4 : P7	REFER TO A403 AND A404 FOR MORE WALL INFO - STRUCTURE PAINTED AS PER ELEVATIONS
113A	STOR	SF1	RB3	CMU	P4	CMU	P4	CMU	P4	CMU	P4	OTS	P10	
113C	ELEC	PC	RB3	CMU	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10	
113D	STOR	SF1	RB3	CMU	P4	GWB	P4	CMU	P4	CMU	P4	OTS	P10	
113E	ELEC	PC	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10	
113F	STOR	SF1	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	OTS	P10	
114	EAST CORRIDOR	PT1A, PT1B	PTB	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB	P4	ACT1 / GWB	FF / P10	
115	LOCKER CORRIDOR	WOM, PT1A, PT1B	PTB	GWB	P4, VWC1	GWB / CW	P4 / FF	CMU / GWB	P4 / P4, VWC1	CMU / GWB	P4 / P4, VWC1	ACT1 / GWB	FF / P10	VWC1 AT COLUMN BUMP OUTS INDICATED ON A502
116	WOMEN	PT1A, PT1C	CT2B 6"	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	- / CB	- / (A510 ACCENTS)	GWB	EPO	REFER TO A502 AND A510 FOR TILE WALL INFO
117	WOMENS LOCKERS	PT1C	CT2B 6"	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO	REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL
118	FAMILY TOILET	PT1B	CT2B 6"	CB	(A510 ACCENT) / CT3	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO	CT3 ACCENT AT SINK BACK WALL ONLY - REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL
119	JAN	PT1A	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	OTS	P10	
120	MEN	PT1A, PT1C	CT2B 6"	CB	(A510 ACCENTS)	- / CB	- / (A510 ACCENTS)	CB	(A510 ACCENTS)	CB	(A510 ACCENTS)	GWB	EPO	REFER TO A502 AND A510 FOR TILE WALL INFO
121	MENS LOCKERS	PT1C	CT2B 6"	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	CB	(A510 ACCENT)	GWB	EPO	REFER TO 11/A510 FOR THE TYPICAL LOCKER ROOM TILED WALL
122	MECH	CONC	-	GWB	P4	GWB	P4	GWB	P4	GWB	P4	OTS	-	
123	FITNESS	SF3	RB3	GWB / CW	P4 / FF	GWB	P4	CMU / GWB	P4 / P2, MR	GWB	P2, P4	OTS : AD / GWB	P4 : P7 / P10	REFER TO A502 FOR P2 LOCATIONS - REFER TO ELEVATIONS FOR MIRROR PLACEMENT
123A	STOR	SF3	RB3	GWB	P4	GWB	P4	CMU	P4	GWB	P4	ACT1	FF	
C101	CORR	PT1A, PT1B	PTB	GWB	P4, VWC1	- / GWB	- / P4, VWC1	GWB	P4, VWC1	GWB / CW	P4 / FF	ACT1 / GWB	FF / P10	REFER TO A502 FOR VWC1 LOCATIONS
C102	CORR	PT1A, PT1B	PTB	GWB	P4	GWB	VWC1	-	-	GWB	P4	ACT1 / GWB	FF / P10	REFER TO A502 FOR VWC1 LOCATIONS
C103	CORR	PT1B	PTB	CMU	P4	GWB	VWC1	CMU / GWB	P4	GWB	P4	ACT1	FF	REFER TO A502 FOR VWC1 LOCATIONS
2nd FLOOR														
2SA	STAIR A	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF	
2SB	STAIR B	RF / RS	RB2	CMU	P4	CMU	P4	CMU	P4	CMU	P4	ACT1	FF	
200	VIEWING	PT1A, PT1B	PTB / CT1F	GWB / CW	P4, (A510 ACCENT) / FF	-	-	GWB / MP	VWC1	-	-	ACT2 / GWB	FF / P10	REFER TO A503 AND A510 FOR TILE ACCENT WALLS - REFER TO A503 FOR VWC1 LOCATIONS
202	MULTI-PURPOSE	VT1	RB2	GWB	P4, MR	GWB	P4	GWB	P4	MP	(SEE SPEC)	ACT1 / GWB	FF / P10	REFER TO ELEVATIONS FOR MIRROR PLACEMENT
203	MULTI-PURPOSE	VT1	RB2	GWB / MP	P4 / (SEE SPEC)	MP	(SEE SPEC)	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10	
204	CORR	PT1A, PT1B	PTB	- / GWB	- / P4	GWB	P4, VWC1	GWB	P4	GWB	P4	ACT1 / GWB	FF / P10	REFER TO A503 FOR VWC1 LOCATIONS
205A	DATA	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
205B	STOR	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
206	PANTRY	PT1B	PTB	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	CB 96" : GWB	FRP 96" : EPO	ACT3	FF	
207	WOMEN	PT1B	CT2B 6"	CB	CT2A FH	CB	(A510 ACCENT)	CB	CT2A FH	CB	CT2A FH	GWB	EPO	REFER TO A503 AND A510 FOR TILE WALL INFO
208	MEN	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	(A510 ACCENT)	GWB	EPO	
209	ELEC	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	ACT1	FF	
209A	EMR	VT2A	RB3	GWB	P4	GWB	P4	GWB	P4	GWB	P4	OTS	P10	
210	JAN	PT1B	PTB	GWB	EPO	GWB	EPO	GWB	EPO	GWB	EPO	ACT1	FF	
211	TOILET	PT1B	CT2B 6"	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	CB	CT2A FH	GWB	EPO	REFER TO 12/A510 FOR THE TYPICAL TOILET ROOM TILED WALL
212	OPEN OFFICE	CPT1	RB2	GWB / CW	P4 / FF	GWB / CW	P4 / FF	GWB	P4, P1	GWB	PTD	ACT1	FF	P1 ACCENT AT MILLWORK BACK WALL
212A	OFFICE	CPT1	RB2	GWB	P4	GWB	P4	GWB	P4	GWB / CW	P4 / FF	ACT1	FF	
212B	CONF	CPT1	RB2	GWB	P1	GWB	P4	GWB	P4	GWB / CW	P4 / FF	ACT1	FF	
213	TRACK	SF2	RB2	CMU / ACMU	P1, P4 / P4	CMU	PTD	CMU/GWB	PTD	CMU	PTD	OTS : AD / GWB	P3, P4 : P7 / P10	REFER TO A403 AND A404 FOR MORE WALL INFO - STRUCTURE PAINTED AS PER ELEVATIONS
C201	CORR	PT1A, PT1B	PTB	-	-	GWB / CW	P4 / FF	GWB	VWC1	-	-	ACT2 / GWB	FF / P10	REFER TO A503 FOR VWC1 LOCATIONS

RFI 087
RFI 089

FINISH SCHEDULE NOTES

ABBREVIATION FINISHES:

ACMU	ACOUSTICAL CMU
ACT*	ACOUSTIC CEILING TILE
AD	ACOUSTIC DECK
CB	CEMENT BOARD
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT*	CARPET
CT*	CERAMIC TILE
CW	CURTAIN WALL
EPO	EPOXY PAINT
EX	EXISTING (FROM PHASE 1)
FF	FACTORY FINISH
FRP	FIRE RATED PANEL
GWB	GYPSUM WALL BOARD
MP	MOBILE PARTITION
MR	MIRROR
OTS	OPEN TO STRUCTURE
PC	PAINTED CONCRETE
PT*	PORCELAIN TILE
PTB	PORCELAIN TILE BASE
P*	PAINTED
RT	RUBBER TILE
RB*	RUBBER BASE
RF	RUBBER FLOORING
RS	RUBBER STAIR FINISH
SF*	SPORTS FLOOR
SV	STONE VENEER
VT*	VINYL TILE
VWC*	VINYL WALL COVERING
WOM	WALK OFF MATT
WP	WALL PADS

ABBREVIATION NOTES:

* = STYLE TYPE. REFER TO SPEC

GENERAL NOTES:

" = INCHES
: / - = CHANGE IN MATERIAL OR FINISH
- = NO APPLICABLE MATERIAL OR FINISH
ABV = ABOVE
FH = FULL HEIGHT

- REFER TO CEILING PLANS, SECTIONS, AND DETAILS FOR CEILING HEIGHTS. CEILING PLANS, SECTIONS, AND DETAILS TAKE PRECEDENCE OVER MATERIALS NOTED ON THE FINISH SCHEDULE.
- GENERAL LOCATIONS OF FINISHES ARE NOTED IN THE SPECIFICATIONS. REVIEW IN CONJUNCTION WITH THE DRAWINGS, INCLUDING THE FINISH SCHEDULE, FOR COMPLETE INFORMATION.
- ALL OUTSIDE EDGES/ CORNERS OF TILE TO HAVE SCHLUTER EDGES. COORDINATE WITH PLANS FOR LOCATIONS
- FLOORS SCHEDULED AS CONC WITH NO FLOOR BASE TO BE CAULKED AT GAPS
- PAINTED RAILING ASSEMBLY AT STAIR A, STAIR B, AND STAIR D TO BE PAINTED WITH P9. STRINGERS TO BE PAINTED WITH P1. REFER TO SPEC.
- WALLS PADS TO BE 72"H WITH 2" SUPPORTS FOR AN OVERALL HEIGHT OF 74"H

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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KG+D ARCHITECTS, PC
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

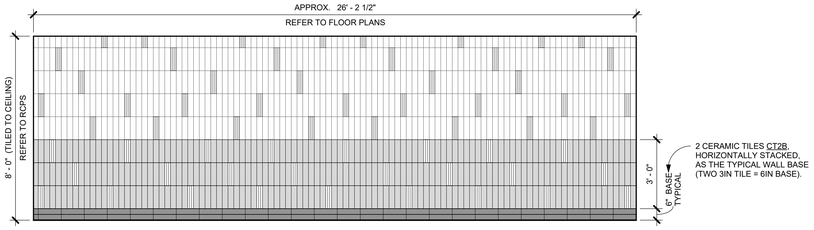
Sheet Title

FINISH SCHEDULE

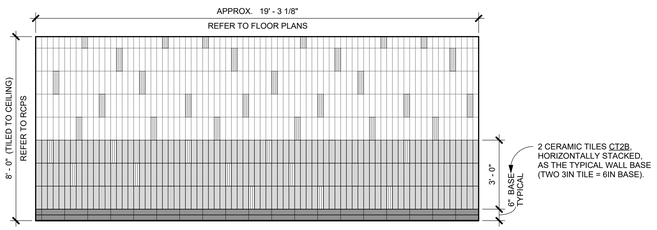
Job No. 2020-1005	Date 03/31/2020
Scale AS NOTED	Drawn / Checked - -

Sheet Number

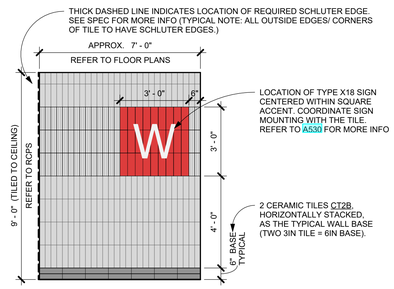
A504



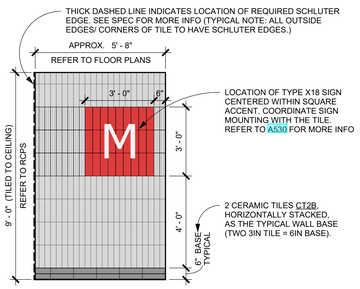
5 1ST FLOOR TOILET ROOMS (109 + 110) - ACCENT WALL
3/8" = 1'-0"



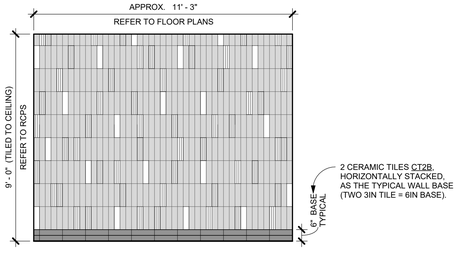
6 2ND FLOOR TOILET ROOMS (207 + 208) - ACCENT WALL
3/8" = 1'-0"



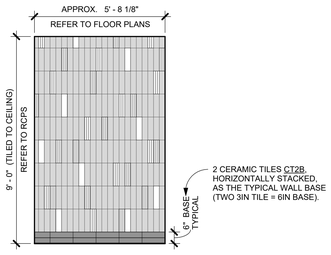
7 WOMEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



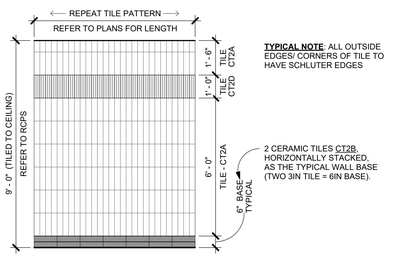
8 MEN'S LOCKER ROOM - ENTRY ACCENT WALL
3/8" = 1'-0"



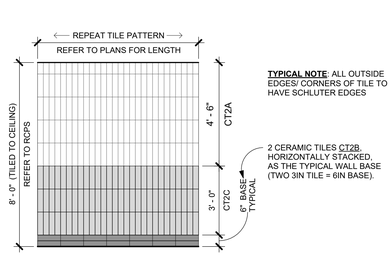
9 WOMEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



10 MEN'S LOCKER ROOM - SINK ACCENT WALL
3/8" = 1'-0"



11 TYPICAL LOCKER ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR THE LOCKER ROOM AREA (ROOMS 116, 117, 118, 120, AND 121)



12 TYPICAL TOILET ROOM TILED WALL
3/8" = 1'-0" TYPICAL WALL FOR SINGLE USER AND MULTI-USER TOILET ROOMS (ROOMS 105, 109, 110, 207, 208 AND 211)

**** PRINT THIS SHEET IN COLOR ****

LOBBY

- CERAMIC TILE: CT1A
- CERAMIC TILE: CT1B
- CERAMIC TILE: CT1C
- CERAMIC TILE: CT1D
- CERAMIC TILE: CT1E
- CERAMIC TILE: CT1F

TOILET / LOCKER ROOMS

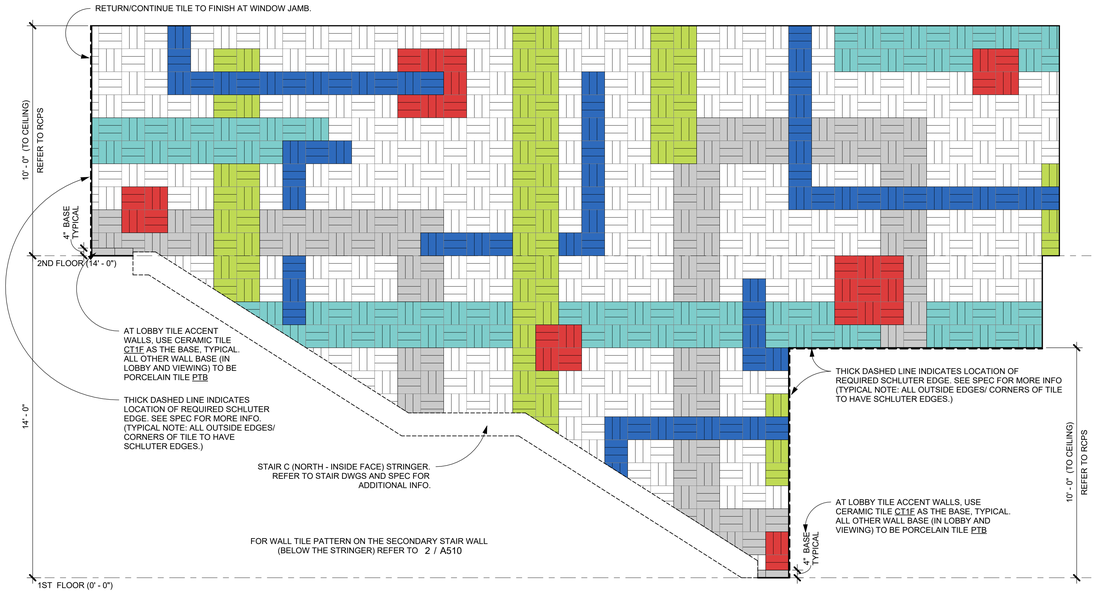
- CERAMIC TILE: CT2A
- CERAMIC TILE: CT2B

TYPICALLY CT2B IS THE WALL BASE AS 2 TILES, HORIZONTALLY STACKED (TWO 3IN TILE = 6IN BASE).

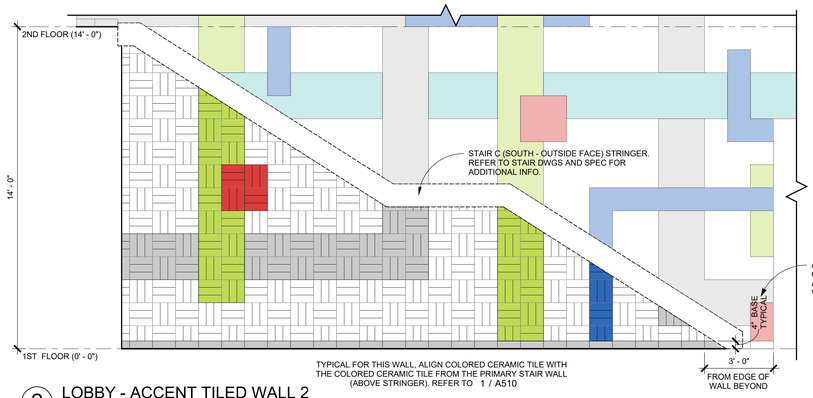
- CERAMIC TILE: CT2C
- CERAMIC TILE: CT2D
- CERAMIC TILE: CT2E

GENERAL NOTES:
- REFER TO TILE ELEVATIONS (ON A510) AND SPEC FOR WALL TILE PATTERN ORIENTATION.
- ALL OUTSIDE EDGES/ CORNERS OF TILE TO HAVE SCHLUTER EDGES. COORDINATE WITH PLANS FOR LOCATIONS

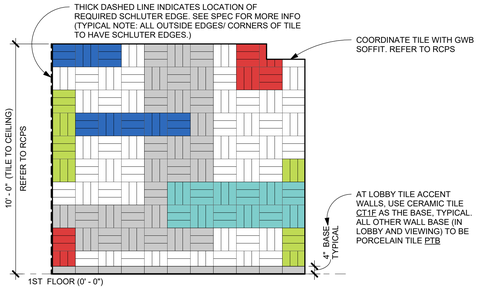
A WALL TILE LEGEND + NOTES
3/8" = 1'-0"



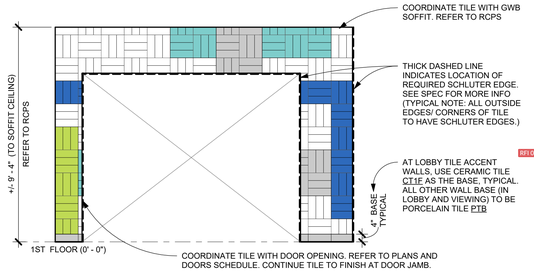
1 LOBBY - ACCENT TILED WALL 1
3/8" = 1'-0"



2 LOBBY - ACCENT TILED WALL 2
3/8" = 1'-0"



3 LOBBY - ACCENT TILED WALL 3
3/8" = 1'-0"



4 LOBBY - ACCENT TILED WALL 4
3/8" = 1'-0"

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New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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Professional Seal

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

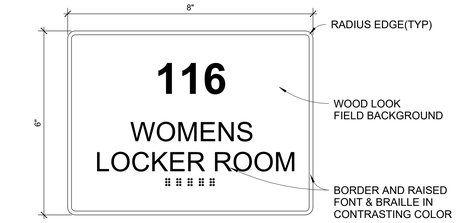
RFT01A

ACCENT WALL TILE PATTERNS

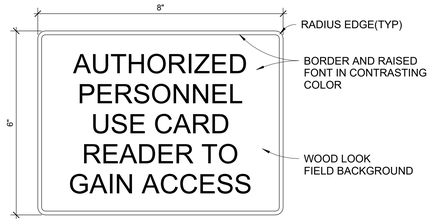
Job No.	Date
2020-1005	01/27/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

A510

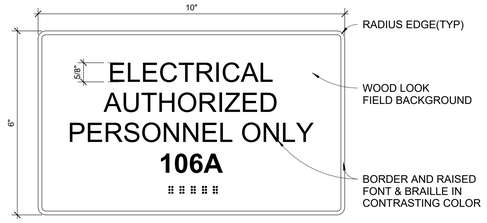


TYPE A
ROOM IDENTIFICATION SIGN



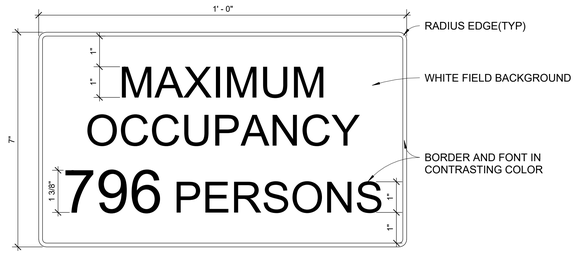
TYPE B
CARD READER SIGN

NOTE: SIGNAGE APPLICABLE AT EVERY INTERIOR CARD READER INDICATED ON THE PLANS

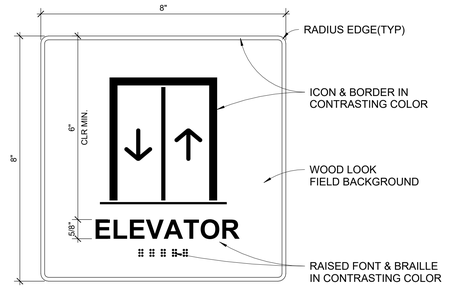


TYPE C
AUTHORIZED PERSONNEL - ROOM IDENTIFICATION

NOTE: WIDTH/HEIGHT OF SIGN TO BE ADJUSTED AS REQUIRED FOR WORDING FROM 8" - 12" W AND 6" - 10" H

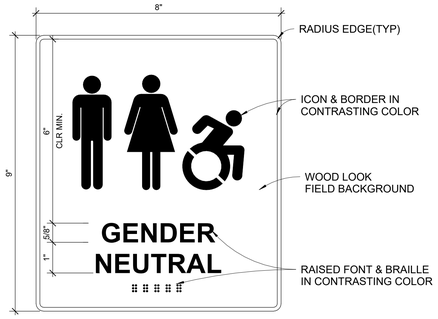


TYPE D
MAXIMUM ROOM OCCUPANCY IDENTIFICATION

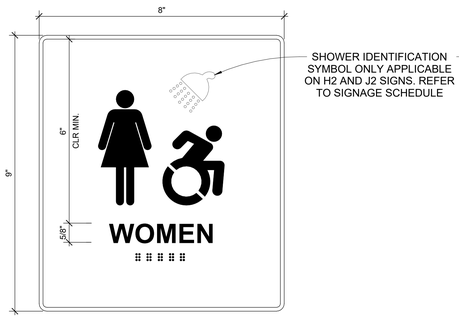


TYPE E
ELEVATOR IDENTIFICATION SIGN

TYPE F
ELEVATOR SECONDARY SIGN

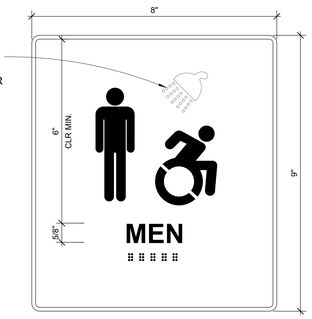


TYPE G
SINGLE USER TOILET IDENTIFICATION SIGN



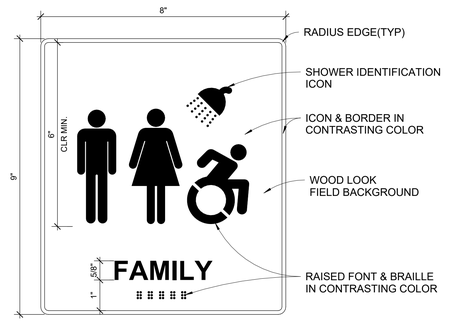
TYPE H
TOILET IDENTIFICATION SIGN

NOTE: ANNOTATIONS ARE SIMILAR TO TYPE G

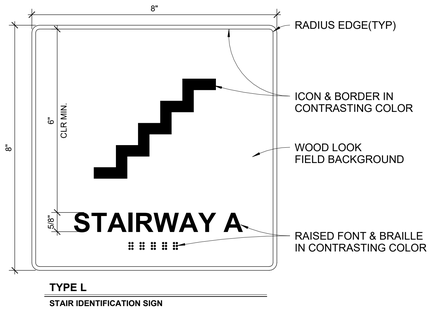


TYPE J
TOILET IDENTIFICATION SIGN

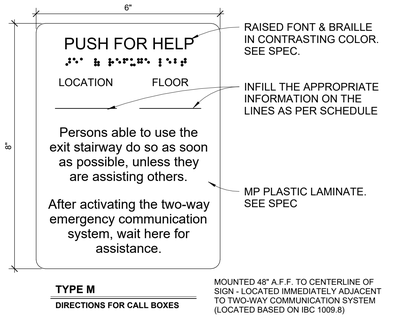
NOTE: ANNOTATIONS ARE SIMILAR TO TYPE G



TYPE K
SINGLE USER WASH ROOM IDENTIFICATION SIGN

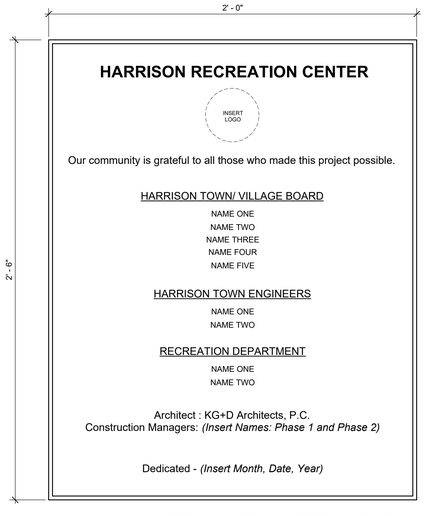


TYPE L
STAIR IDENTIFICATION SIGN



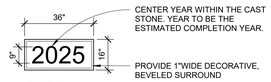
TYPE M
DIRECTIONS FOR CALL BOXES

MOUNTED 48" A.F.F. TO CENTERLINE OF SIGN - LOCATED IMMEDIATELY ADJACENT TO TWO-WAY COMMUNICATION SYSTEM (LOCATED BASED ON IBC 1009.8)



TYPE P
DEDICATION PLAQUE

- TEXT SHOWN ABOVE IS A CONCEPT DESIGN. (FINAL TEXT TO BE DETERMINED BY THE CLIENT)
- CAST BRONZE PLAQUE WITH RAISE TEXT & BORDER
- PROVIDE ONE SIGN, SEE ARCHITECT FOR FINAL LOCATION
-SEE SPECIFICATION MANUAL FOR DETAILS



TYPE Q
CORNER STONE WITH 9" LETTERING
HELVETICA FONT FOR EXTERIOR LOCATION. CORNER STONE MADE OF CAST STONE. SEE SPEC FOR ADDITIONAL INFO

TYPE X12 (1-INCH THICK)
12" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS
HELVETICA FONT FOR EXTERIOR LOCATION. SEE SPEC FOR ADDITIONAL INFO

TYPE X14 (2 INCH THICK)
14" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS
HELVETICA FONT FOR EXTERIOR LOCATION. SEE SPEC. REFER TO THE FOLLOWING DRAWINGS FOR MORE INFO:
1 / / A203, 2 / / A801, AND 5 / A921

TYPE X18 (1/2-INCH THICK)
18" BRUSHED STAINLESS STEEL PIN-MOUNTED LETTERS
VERDANA FONT. SEE SCHEDULE FOR INTERIOR LOCATION AND TEXT INFO. SEE SPEC FOR ADDITIONAL INFO

TYPE Y
GENERAL EXTERIOR PLATE SIGN
TEXT TO BE DETERMINED - SIGN SIZE MAY CHANGE

SIGNAGE SCHEDULE

ROOM #	LOCATION	SIGN TYPE	SIGN TEXT (TEXT TO BE CONFIRMED WITH OWNER)	DESCRIPTION	QTY	SIGNAGE COMMENTS
PARKING						
B03	ELEC	C	B03 ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
B04	STOR	A	B04 STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
B05	OFFICE	A	B05 OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
B06	MECH	C	B06 MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF B06A
B07	MECH VEST	C	B06 MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF B07
B08	ELEC/PV ROOM	C	B08 ELECTRICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
BSA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
BSB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
BSD	STAIR D	L	STAIRWAY D	SEE TYPE L ON A530 FOR MORE DETAILS	1	
No. 1	ELEV	E	ELEVATOR	SEE TYPE E ON A530 FOR MORE DETAILS	3 (ONE @ EACH LEVEL)	
		F	IN CASE OF FIRE USE STAIRS	SEE TYPE F ON A530 FOR MORE DETAILS	3 (ONE @ EACH LEVEL)	
		M	ELEVATOR A (LOCATION) : FLOOR 2 (FLOOR)	SEE TYPE M ON A530 FOR MORE DETAILS	1 (@ 2ND FLOOR ONLY)	
1st FLOOR						
1SA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SC	STAIR C	L	STAIRWAY C	SEE TYPE L ON A530 FOR MORE DETAILS	1	
1SD	STAIR D	L	STAIRWAY D	SEE TYPE L ON A530 FOR MORE DETAILS	1	
101	LOBBY	P	(TEXT TO BE DETERMINED BY OWNER)	SEE TYPE P ON A530 FOR MORE DETAILS	1	MOUNT SIGN BY STAIR D. REFER TO A202 FOR MOUNTING LOCATION
103	OPEN OFFICE	A	103 OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
103B	CONF	A	103B CONFERENCE ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
104	JAN	A	104 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
105	TOILET	G	GENDER NEUTRAL	SEE TYPE G ON A530 FOR MORE DETAILS	1	
106	RECREATION GAME RM	A	106 RECREATION ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	2	
107	COMPUTERGAMING	A	107 COMPUTER GAMING	SEE TYPE A ON A530 FOR MORE DETAILS	1	
107A	AV CLOS	A	107A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
108	ARTS/CRAFTS	A	108 ARTS/CRAFTS	SEE TYPE A ON A530 FOR MORE DETAILS	1	
108A	STOR	A	108A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
109	WOMEN	H	WOMEN	SEE TYPE H ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
110	MEN	J	MEN	SEE TYPE J ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
111	DATA	A	111 DATA ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
112	MEETING	A	112 MEETING ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
112A	MECH	C	112A MECHANICAL ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
113	GYMNASIUM	A	113 GYMNASIUM	SEE TYPE A ON A530 FOR MORE DETAILS	2	
		D	MAXIMUM OCCUPANCY 796 PERSONS	SEE TYPE D ON A530 FOR MORE DETAILS	1	
113C	ELEC	C	113C ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
113E	ELEC	C	113E ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
115	LOCKER CORRIDOR	Y	FITNESS ENTRY ALLOWED: WEEKDAYS 5PM - 9PM WEEKEND 3PM-11PM	SEE TYPE Y ON A530 FOR MORE DETAILS	1	MOUNT SIGN OUTSIDE OF DOOR 115. REFER TO A202 FOR MOUNTING LOCATION
116	WOMEN	H2	WOMENS LOCKER ROOM	SEE TYPE H ON A530 FOR MORE DETAILS	1	INCLUDE SHOWER SYMBOL
		X18	W	SEE TYPE X18 ON A 530 FOR MORE DETAILS	1	REFEER TO A402 FOR MOUNTING LOCATION
118	FAMILY TOILET	K	FAMILY	SEE TYPE K ON A530 FOR MORE DETAILS	1	
119	JAN	A	119 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
120	MEN	J2	MENS LOCKER ROOM	SEE TYPE J ON A530 FOR MORE DETAILS	1	INCLUDE SHOWER SYMBOL
		X18	M	SEE TYPE X18 ON A530 FOR MORE DETAILS		REFEER TO A402 FOR MOUNTING LOCATION
123	FITNESS	A	123 FITNESS CENTER	SEE TYPE A ON A530 FOR MORE DETAILS	1	
123A	STOR	A	123A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
2nd FLOOR						
2SA	STAIR A	L	STAIRWAY A	SEE TYPE L ON A530 FOR MORE DETAILS	1	
2SB	STAIR B	L	STAIRWAY B	SEE TYPE L ON A530 FOR MORE DETAILS	1	
2SC	STAIR C	L	STAIRWAY C	SEE TYPE L ON A530 FOR MORE DETAILS	1	
202	MULTI-PURPOSE	A	202 MULTI-PURPOSE SPACE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
203	MULTI-PURPOSE	A	203 MULTI-PURPOSE SPACE	SEE TYPE A ON A530 FOR MORE DETAILS	2	
205A	DATA	A	205A DATA ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	
205B	STOR	A	205A STORAGE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
206	PANTRY	A	206 PANTRY	SEE TYPE A ON A530 FOR MORE DETAILS	1	
207	WOMEN	H	WOMEN	SEE TYPE H ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
208	MEN	J	MEN	SEE TYPE J ON A530 FOR MORE DETAILS	1	NO SHOWER SYMBOL
209	ELEC	C	209 ELECTRICAL AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
209A	EMR	C	209A MACHINE ROOM AUTHORIZED PERSONNEL ONLY	SEE TYPE C ON A530 FOR MORE DETAILS	1	
210	JAN	A	210 JANITORS CLOSET	SEE TYPE A ON A530 FOR MORE DETAILS	1	
211	TOILET	G	GENDER NEUTRAL	SEE TYPE G ON A530 FOR MORE DETAILS	1	
212	OPEN OFFICE	A	212 OPEN OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
212A	OFFICE	A	212A OFFICE	SEE TYPE A ON A530 FOR MORE DETAILS	1	
212B	CONF	A	212B CONFERENCE ROOM	SEE TYPE A ON A530 FOR MORE DETAILS	1	

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

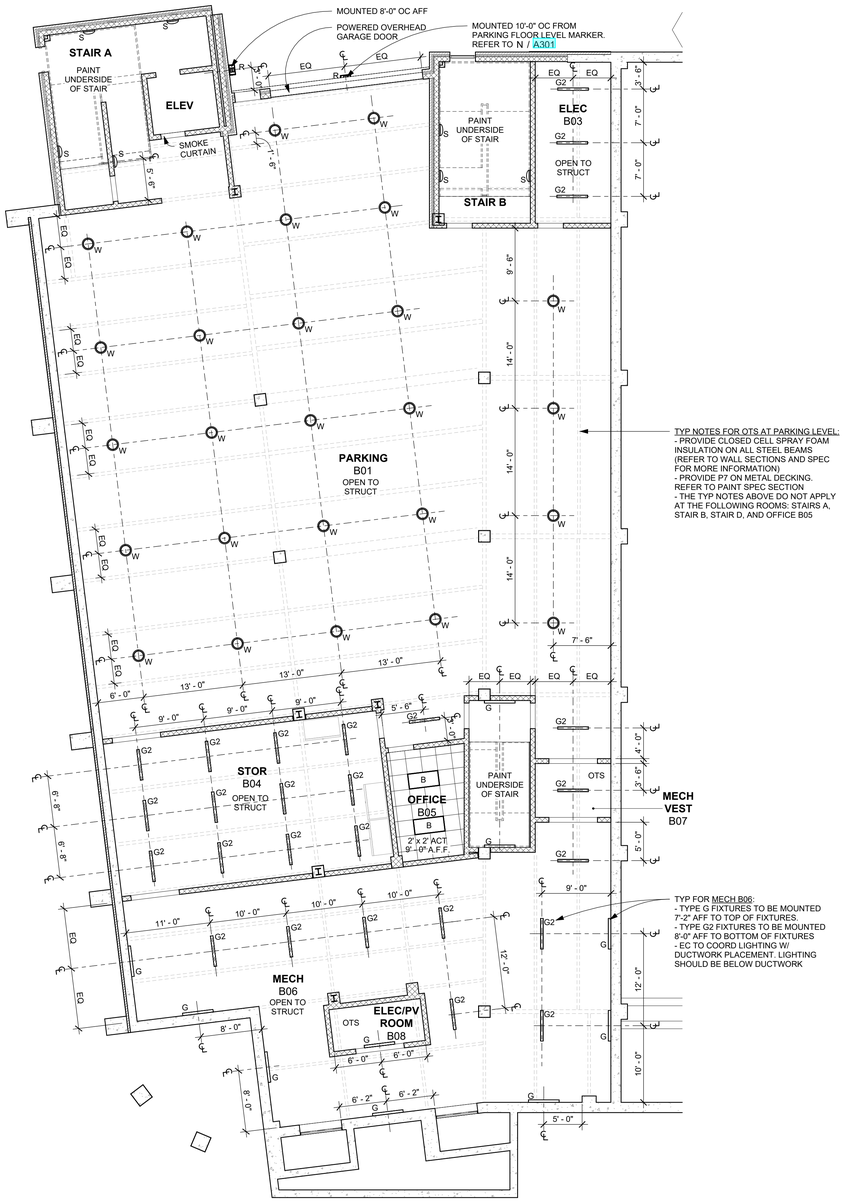
Sheet Title

SIGNAGE TYPES AND SCHEDULE

Job No. 2020-1005	Date -
Scale AS NOTED	Drawn / Checked - -

Sheet Number

A530



1 LOWER LEVEL and PARKING - CEILING PLAN
1/8" = 1'-0"

CEILING LEGEND

- PROJECTOR SCREEN
- PROJECTOR
- LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO
- LIGHT FIXTURE CENTERED IN ROOM/CEILING. COORDINATE W/ ELEC DWGS
- LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- GYP CEILING SYSTEM
- ACT CEILING SYSTEM
- OPEN TO STRUCTURE

CEILING GENERAL NOTES

1. CEILINGS GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILINGS / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.

PROJECT NORTH / TRUE NORTH

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New Construction - Phase 2

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

LOWER LEVEL REFLECTED CEILING PLAN

Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked

Sheet Number

A601

CEILING LEGEND

- PROJECTOR SCREEN
- PROJECTOR
- LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO
- LIGHT FIXTURE CENTERED IN ROOM/CEILING. COORDINATE W/ ELEC DWGS
- LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- GYP CEILING SYSTEM
- ACT CEILING SYSTEM
- OPEN TO STRUCTURE

CEILING GENERAL NOTES

1. CEILINGS GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILINGS / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.

1 1st FLOOR RCP
1/8" = 1'-0"

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

1st FLOOR REFLECTED CEILING PLAN

Job No.	Date
2020-1005	03/31/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A602

CEILING LEGEND

- PROJECTOR SCREEN
- PROJECTOR
- LIGHT FIXTURE W/ CORRESPONDING TAG (SEE LIGHTING SCHEDULE ON E604 FOR MORE INFORMATION)
- NOTE: THIS LEGEND DOES NOT SHOW EVERY GRAPHIC REPRESENTATION FOR EACH LIGHT FIXTURE TYPE. REVIEW EACH RCP, ELEC DWGS, & THE LIGHTING SCHED FOR MORE INFO
- LIGHT FIXTURE CENTERED IN ROOM/CEILING. COORDINATE W/ ELEC DWGS
- LIGHT FIXTURE TAG (REFER TO ELEC DWGS FOR MORE INFO)
- GYP CEILING SYSTEM
- ACT CEILING SYSTEM
- OPEN TO STRUCTURE

CEILING GENERAL NOTES

1. CEILINGS GRIDS SHALL BE CENTERED IN ROOM OR SPACE.
2. ALL CEILING MOUNTED ELEMENTS, INCLUDING, BUT NOT LIMITED TO: EXIT SIGNS, HVAC REGISTERS, SPRINKLER HEADS, WIRELESS ACCESS POINTS, ETC. SHALL BE CENTERED IN CEILING TILES.
3. SEE MEP DRAWINGS FOR LIGHTING FIXTURE SCHEDULE & OTHER CEILING MOUNTED ELECTRICAL, MECHANICAL & PLUMBING ELEMENTS.
4. SEE FINISH SCHEDULE & SPECIFICATIONS FOR CEILING MATERIALS & FINISHES.
5. CEILING HEIGHTS SHOWN IN PLANS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ELSEWHERE.
6. CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. CONTRACTOR TO CONFIRM LOCATIONS OF ALL SLOT DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, ETC. MOUNTED IN GWB OR SPECIALTY CEILINGS / WALLS WITH ARCHITECT PRIOR TO INSTALLATION.

1 2nd FLOOR RCP
1/8" = 1'-0"

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Professional Seal

No.	Date	Issue
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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

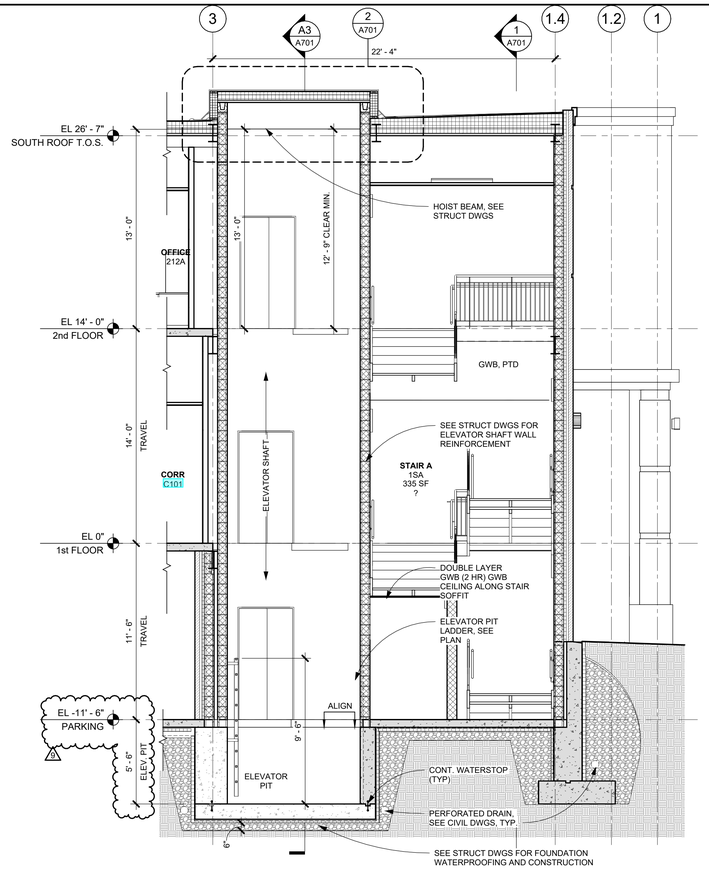
Sheet Title

2nd FLOOR REFLECTED CEILING PLAN

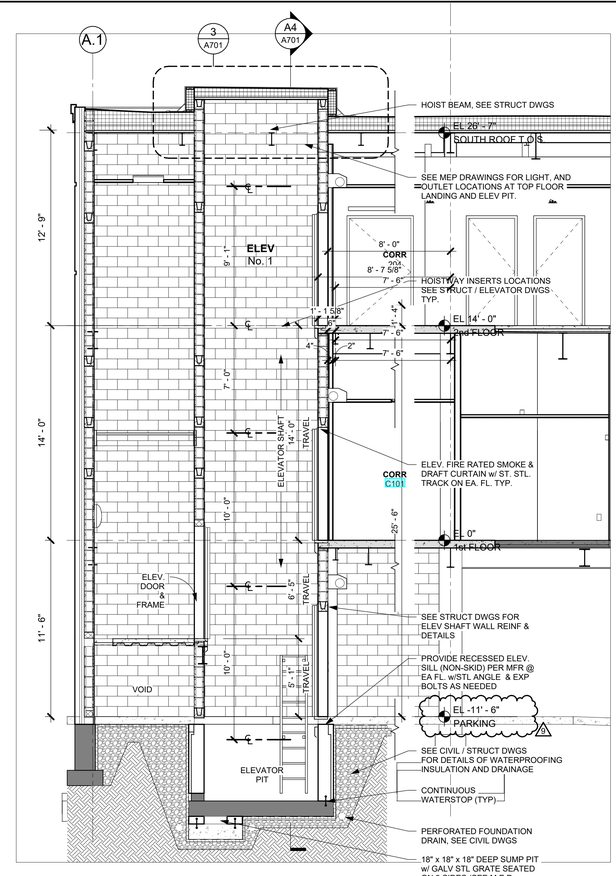
Job No.	Date
2020-1005	03/31/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

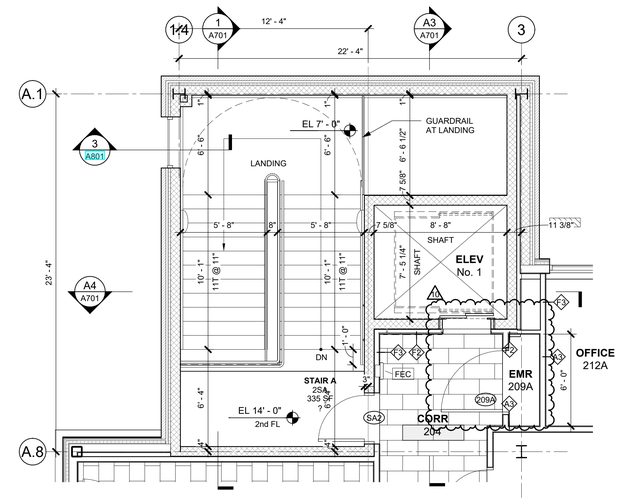
A603



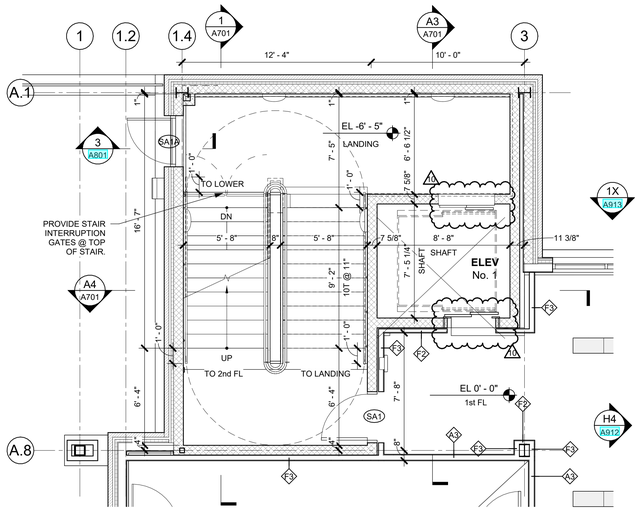
A4 SECTION A4 AT STAIR A & ELEV
1/4" = 1'-0"



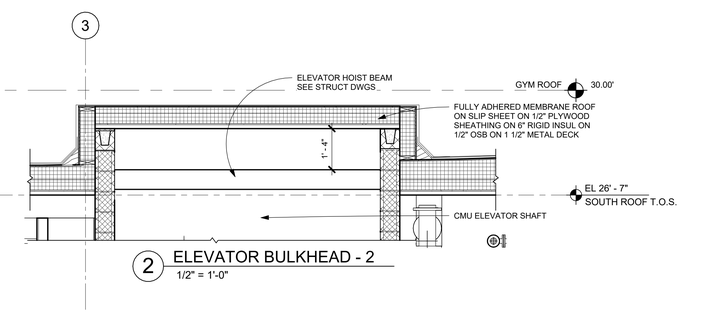
A3 SECTION A3 AT ELEV
1/4" = 1'-0"



A2 STAIR A - 2nd FL PLAN
1/4" = 1'-0"

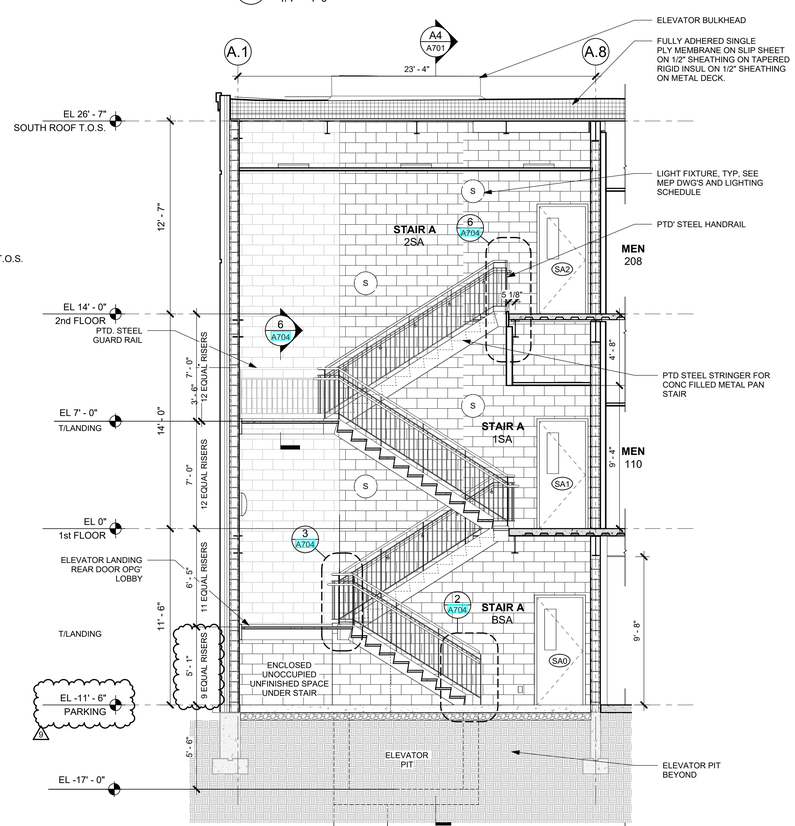


A1 STAIR A - 1st FL PLAN
1/4" = 1'-0"

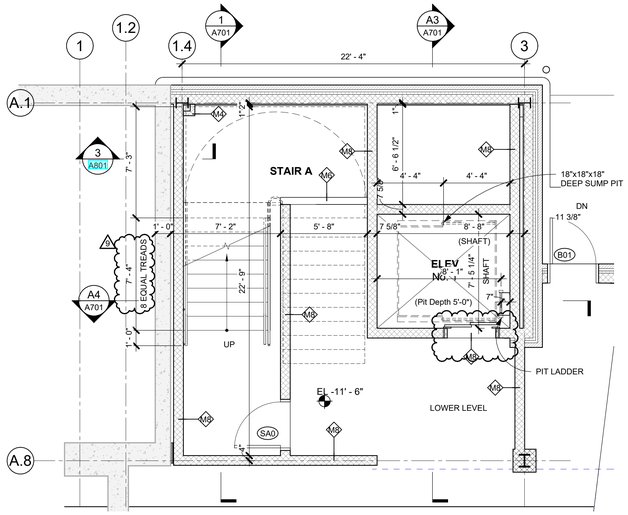


3 ELEVATOR BULKHEAD - 1
1/2" = 1'-0"

2 ELEVATOR BULKHEAD - 2
1/2" = 1'-0"



1 SECTION AT STAIR A
1/4" = 1'-0"



A0 STAIR A - LOWER LEVEL PLAN
1/4" = 1'-0"

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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No.	Date	Issue
10	02/11/2025	BULLETIN #3
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

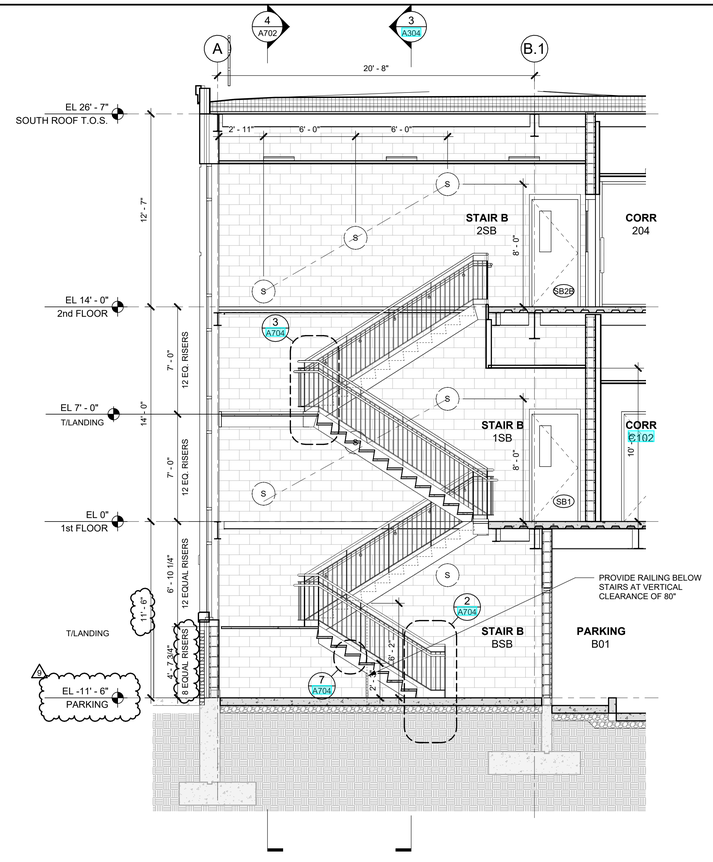
Sheet Title

ELEV & STAIR PLANS & SECTIONS

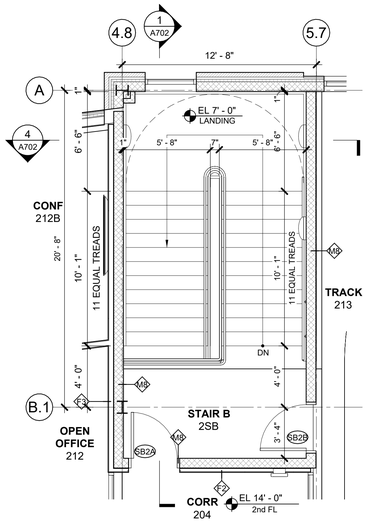
Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

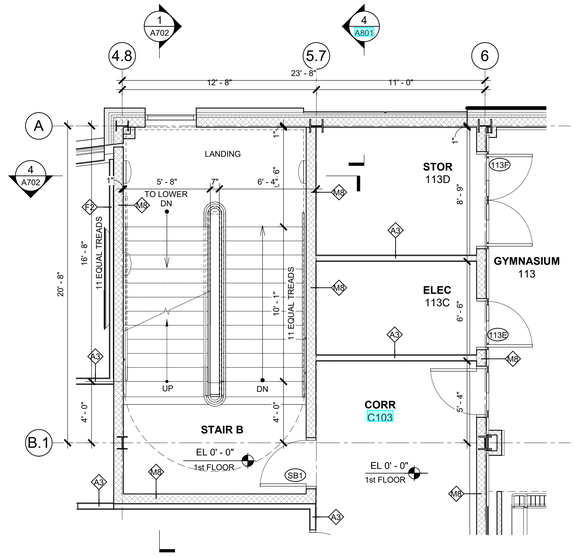
A701



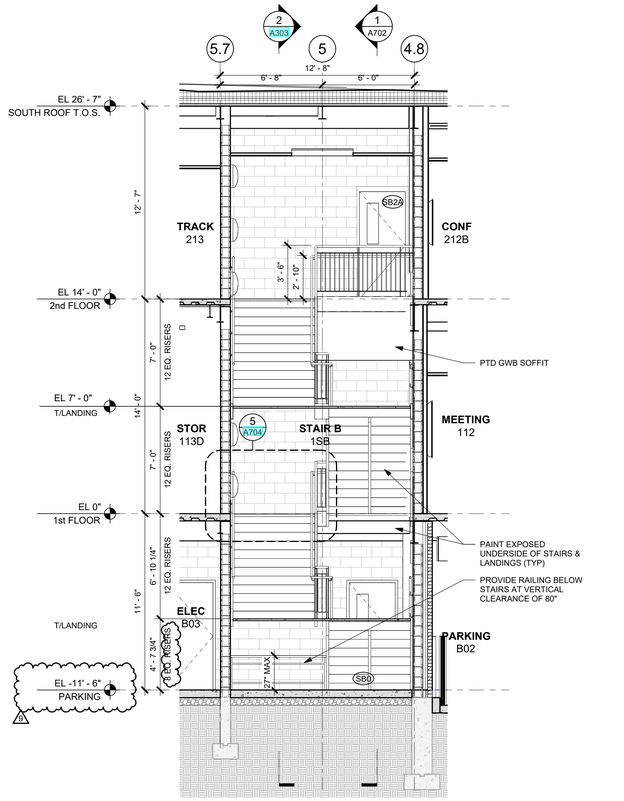
1 SECTION EW AT STAIR B
1/4" = 1'-0"



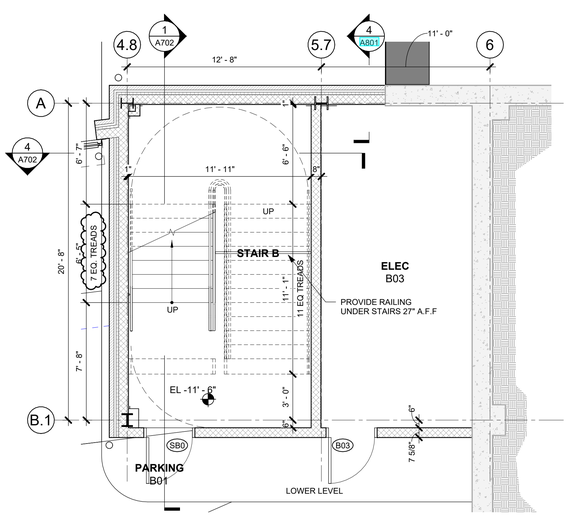
B2 STAIR B - 2nd FL PLAN
1/4" = 1'-0"



B1 STAIR B - 1st FL PLAN
1/4" = 1'-0"



4 SECTION NS AT STAIR B
1/4" = 1'-0"



B0 STAIR B - LOWER LEVEL PLAN
1/4" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

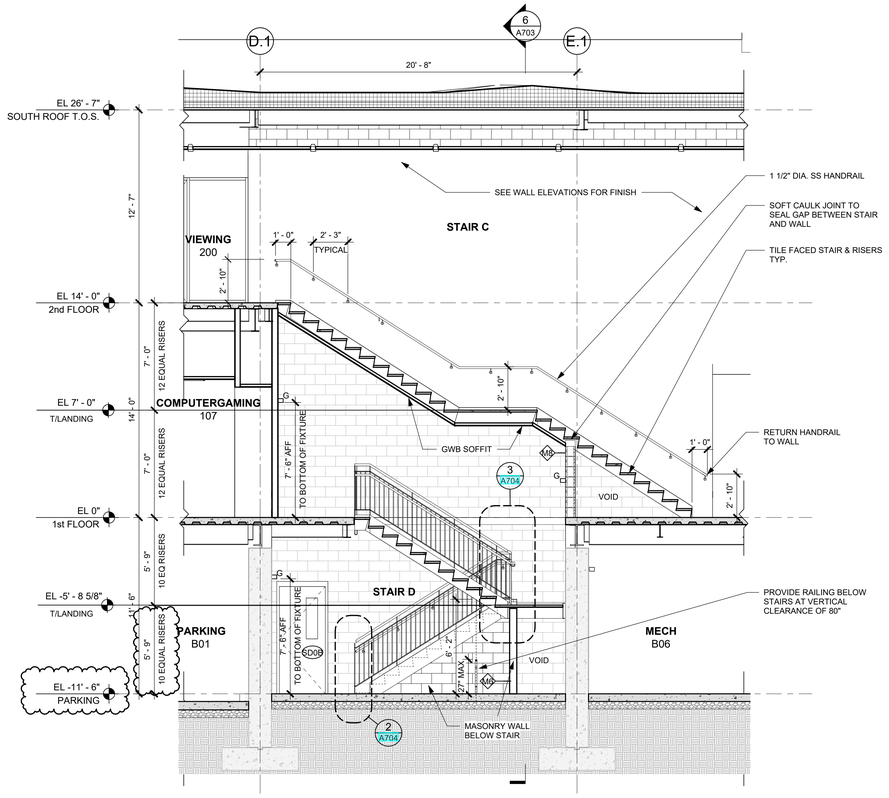
Sheet Title

STAIR PLANS & SECTIONS

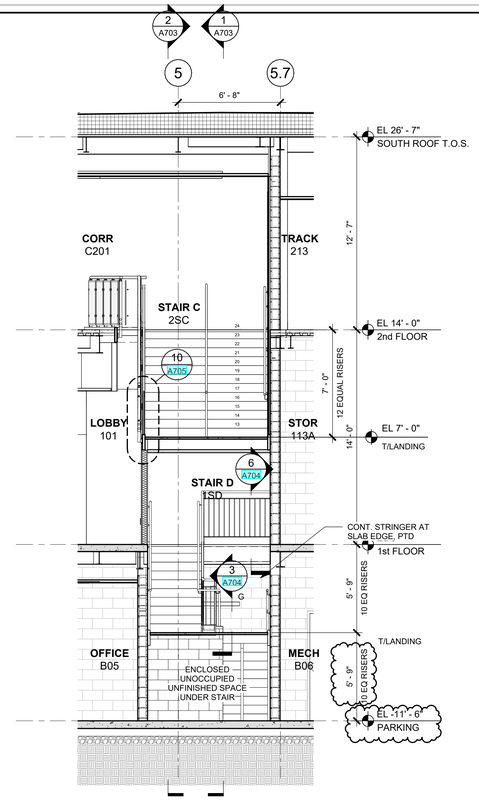
Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

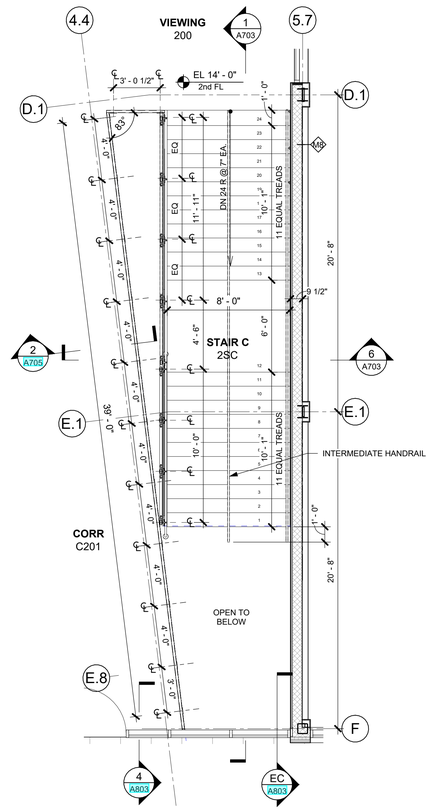
A702



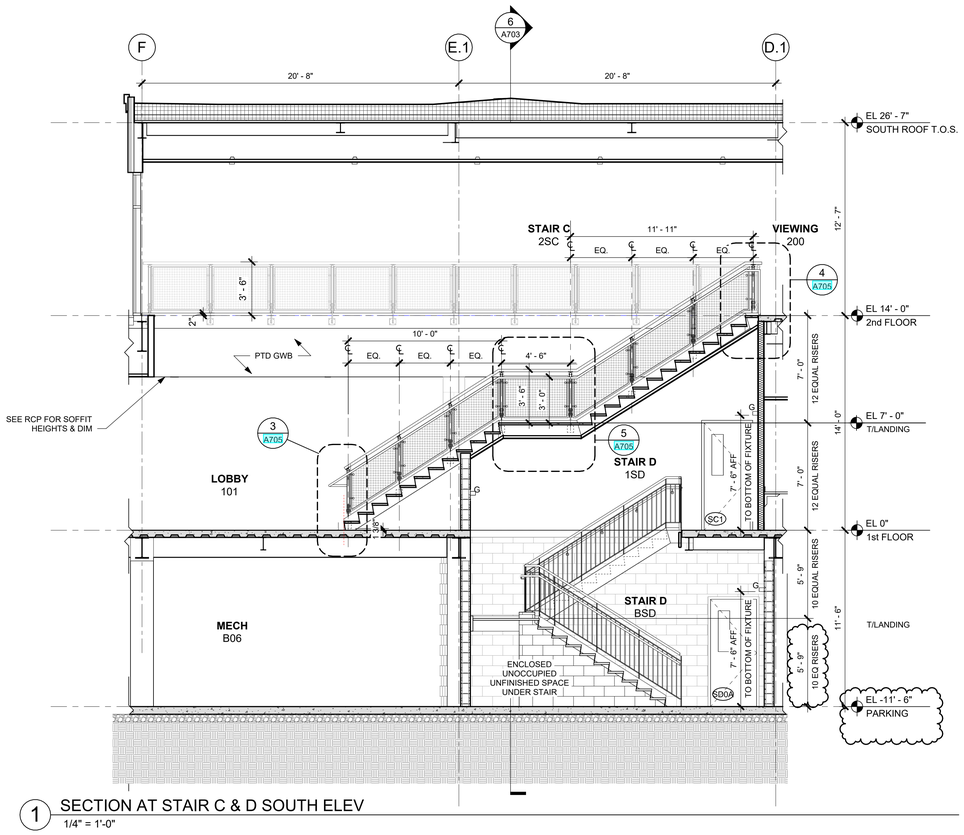
2 SECTION AT STAIR C & D NORTH ELEV
1/4" = 1'-0"



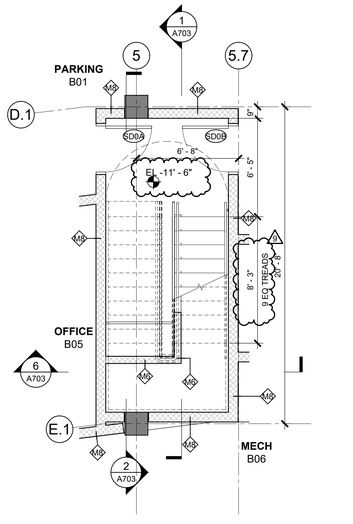
6 SECTION AT STAIR C
1/4" = 1'-0"



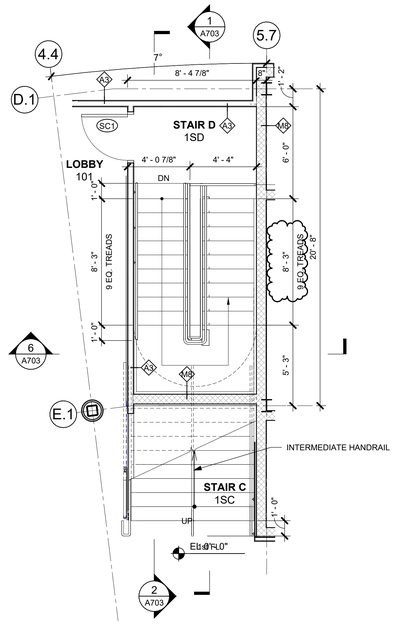
4 STAIR C - 2nd FL PLAN
1/4" = 1'-0"



1 SECTION AT STAIR C & D SOUTH ELEV
1/4" = 1'-0"



5 0 LOWER LEVEL PLAN - Callout 1
1/4" = 1'-0"



3 STAIR D - 1st FL PLAN
1/4" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

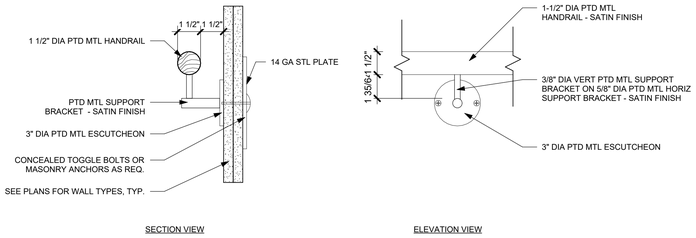
Sheet Title

STAIR PLANS & SECTIONS

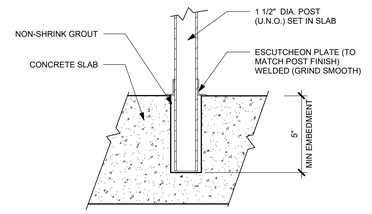
Job No.	Date
2020-1005	02/16/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

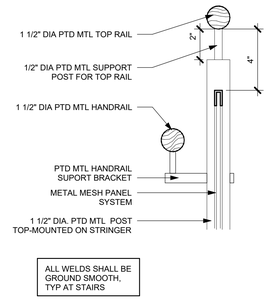
A703



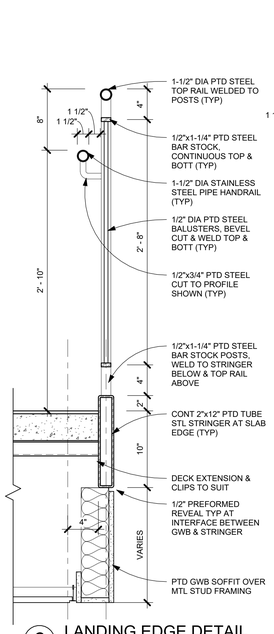
13 TYP DETAIL @ WALL MNTD HANDRAIL
3" = 1'-0"



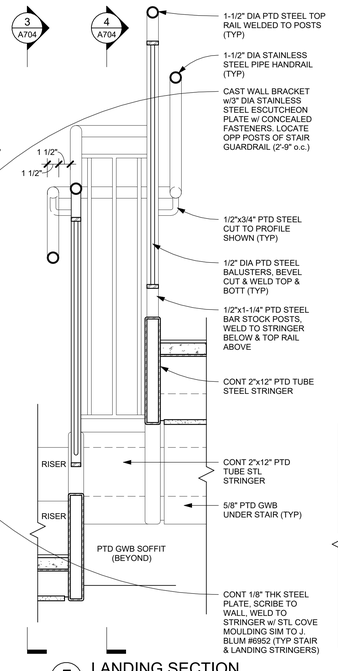
12 DETAIL @ POST SLEEVE
3" = 1'-0"



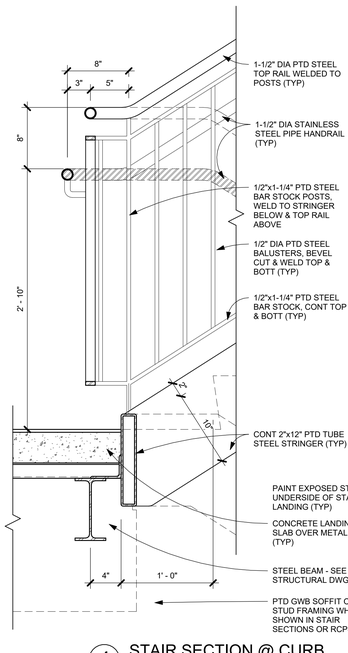
11 TYP DETAIL @ GUARDRAIL MNTD HANDRAIL
3" = 1'-0"



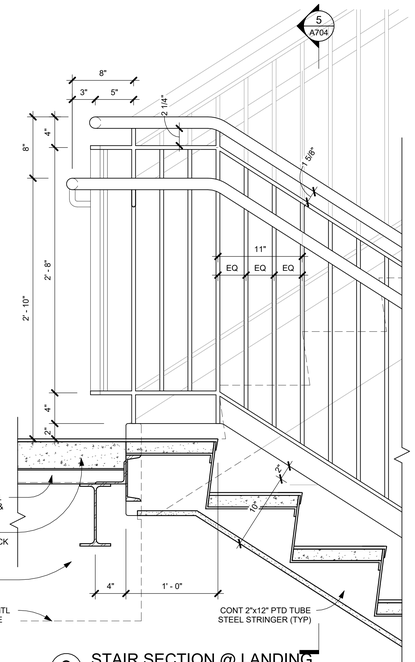
6 LANDING EDGE DETAIL
1 1/2" = 1'-0"



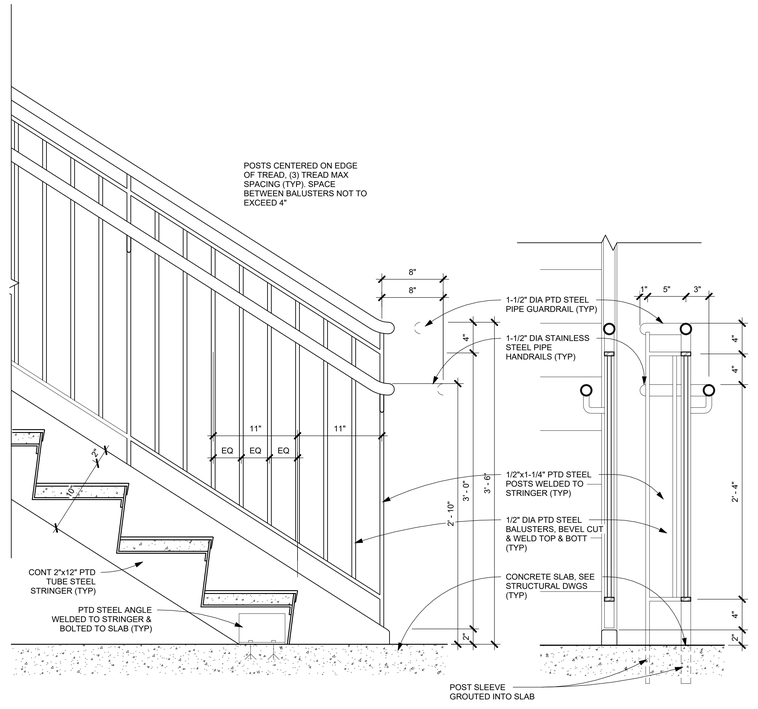
5 LANDING SECTION
1 1/2" = 1'-0"



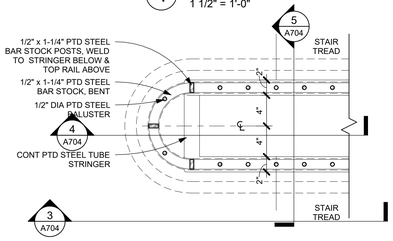
4 STAIR SECTION @ CURB
1 1/2" = 1'-0"



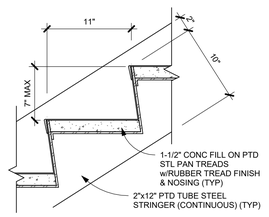
3 STAIR SECTION @ LANDING
1 1/2" = 1'-0"



2 STAIR SECTION @ BOTTOM
1 1/2" = 1'-0"



8 PLAN SECTION THRU RAIL
1 1/2" = 1'-0"



7 TYP STEEL PAN STAIR TREAD
1 1/2" = 1'-0"

1 SECTION THRU END RAILING
1 1/2" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

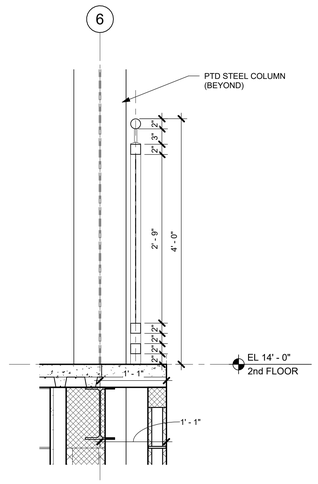
Sheet Title

TYPICAL STAIR DETAILS @ STAIR A, B, & D

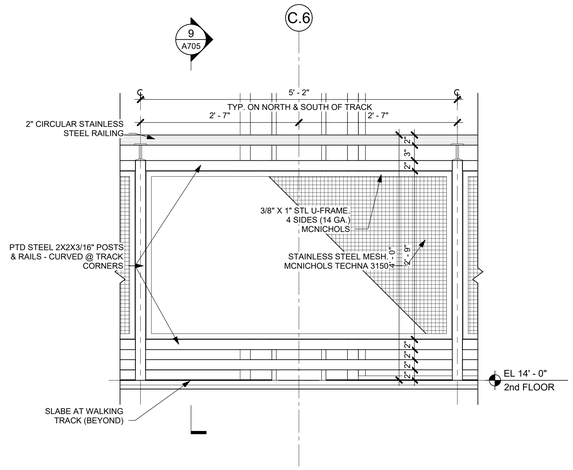
Job No.	Date
2020-1005	02/21/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

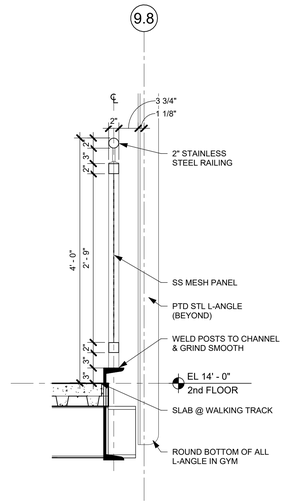
A704



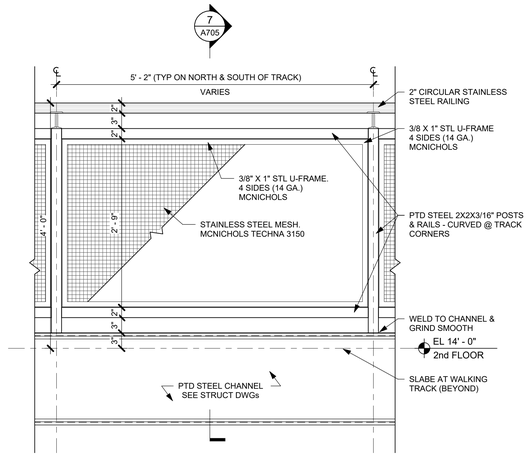
9 TRACK GUARDRAIL SECTION @ BLEACHERS
1" = 1'-0"



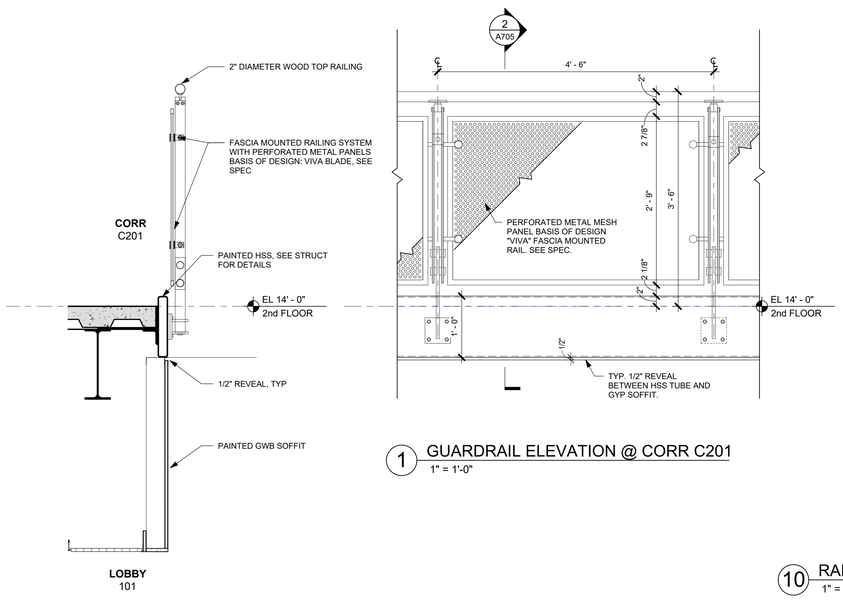
8 TRACK GUARDRAIL ELEVATION @ BLEACHERS
1" = 1'-0"



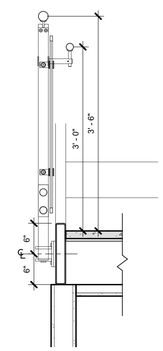
7 TRACK GUARDRAIL SECTION
1" = 1'-0"



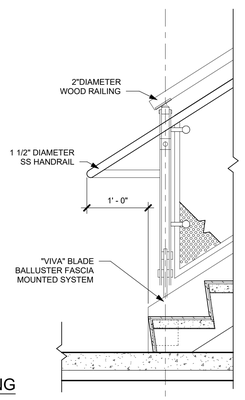
6 TRACK GUARDRAIL ENLARGED ELEVATION
1" = 1'-0"



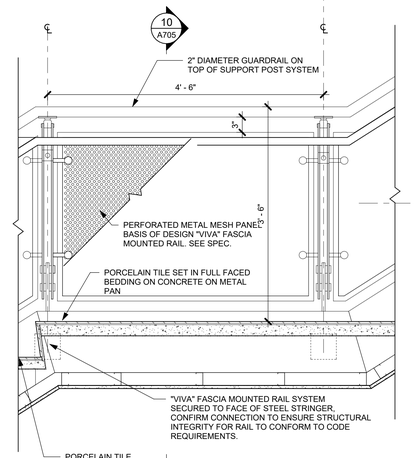
1 GUARDRAIL ELEVATION @ CORR C201
1" = 1'-0"



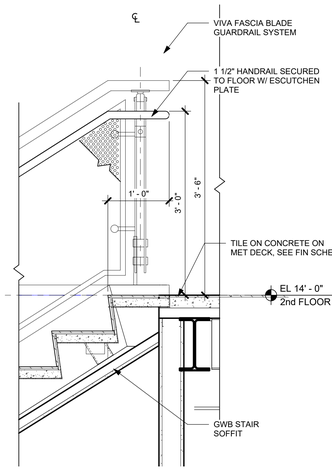
10 RAILING SECTION @ STAIR "C" LANDING
1" = 1'-0"



3 STAIR "C" 1st FL LANDING
1" = 1'-0"



5 STAIR "C" MID LANDING
1" = 1'-0"



4 STAIR "C" 2nd FL LANDING
1" = 1'-0"

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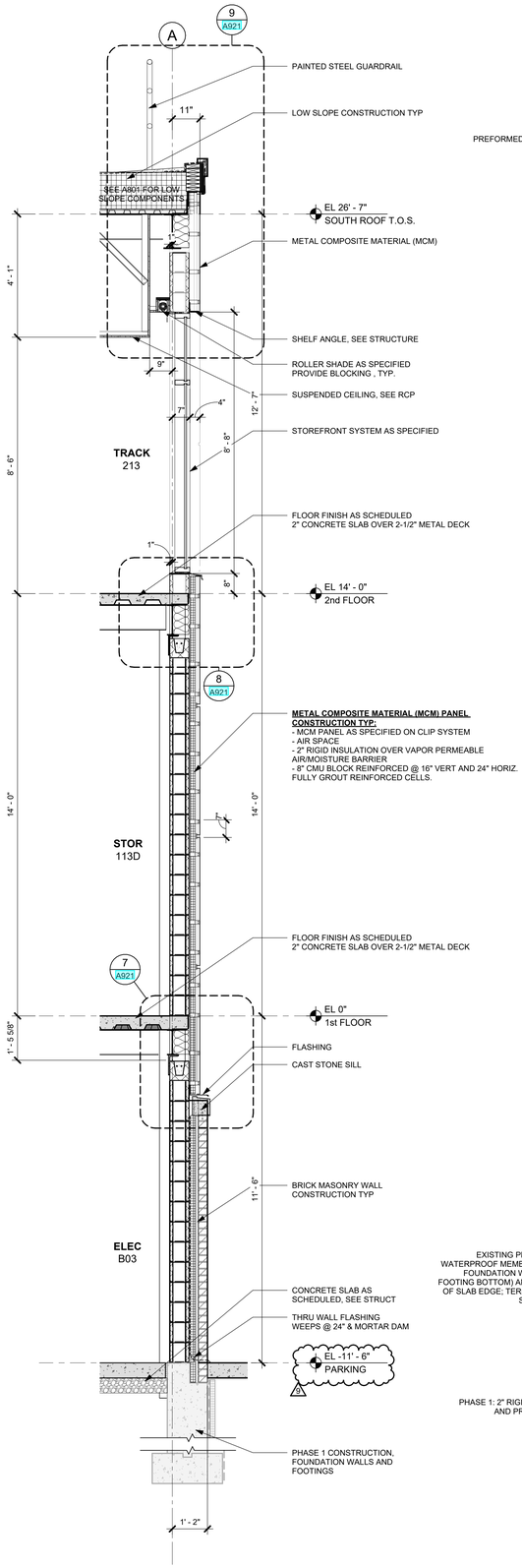
1	03/31/2020	50% DESIGN DEVELOPMENT

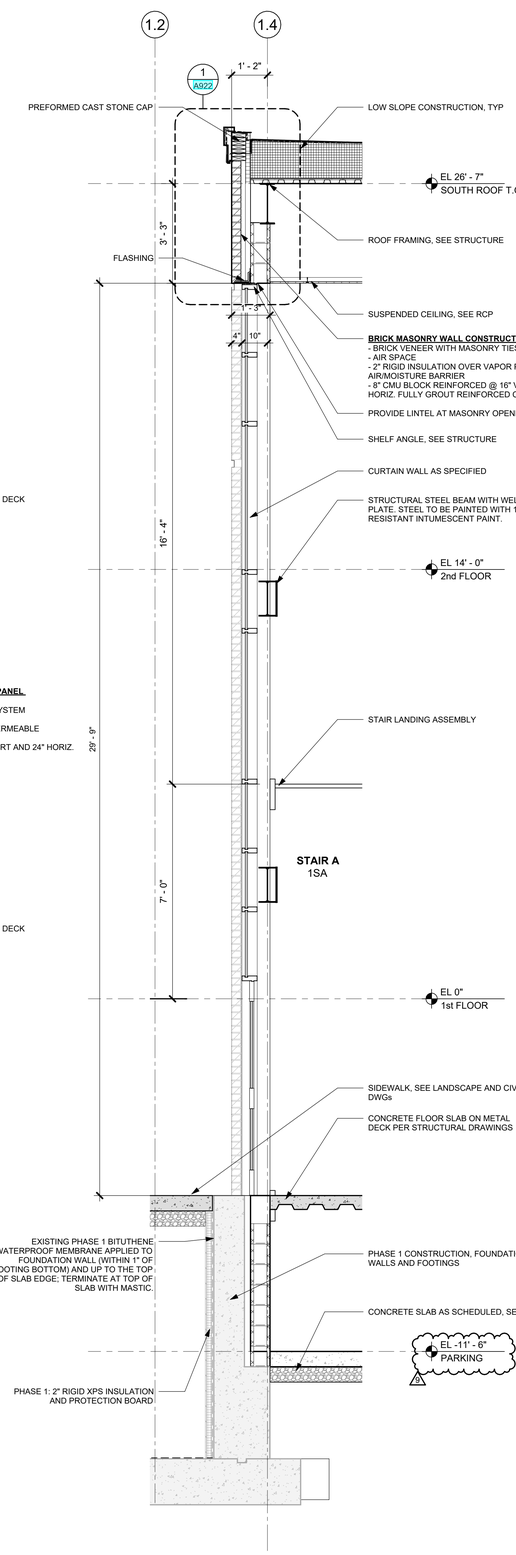
Sheet Title
TYPICAL STAIR "C" DETAILS & TRACK GUARDRAIL DETAILS

Job No.	Date
2020-1005	02/21/24
Scale: AS NOTED	Drawn / Checked: Author Checker

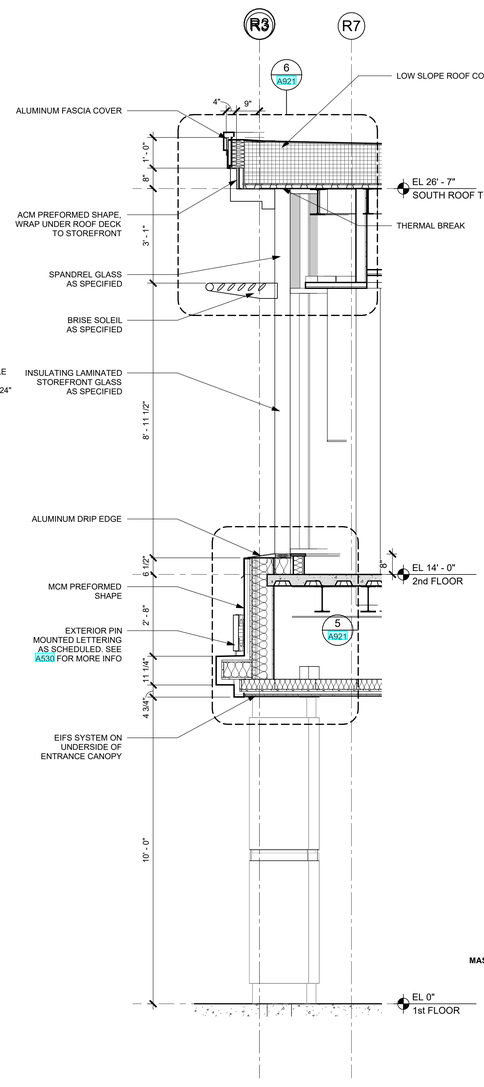
Sheet Number
A705



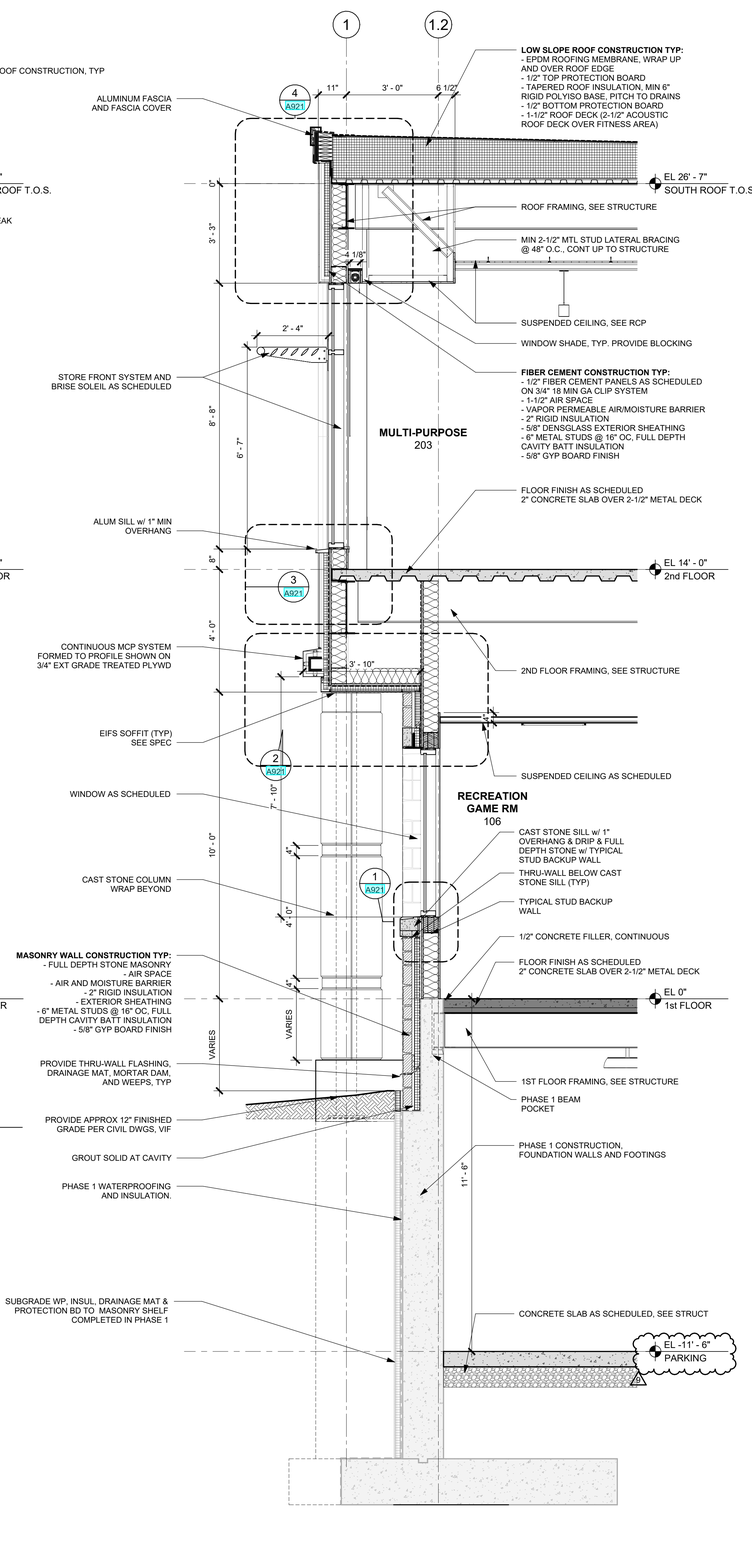
4 WALL SECTION AT WEST TRACK
1/2" = 1'-0"



3 WALL SECTION AT STAIR A CURTAIN WALL
1/2" = 1'-0"



2 WALL SECTION AT MAIN ENTRANCE
1/2" = 1'-0"



1 WALL SECTION AT SOUTH BAR WINDOW
1/2" = 1'-0"

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Professional Seal

No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

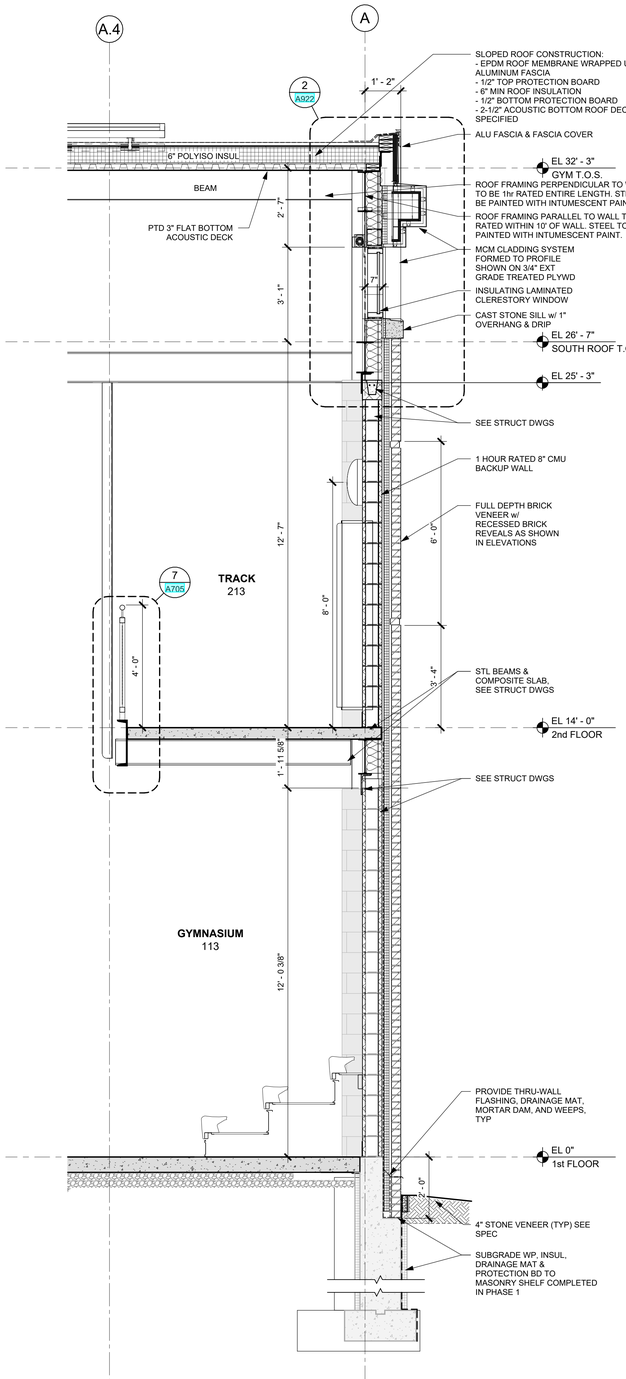
Sheet Title

WALL SECTIONS

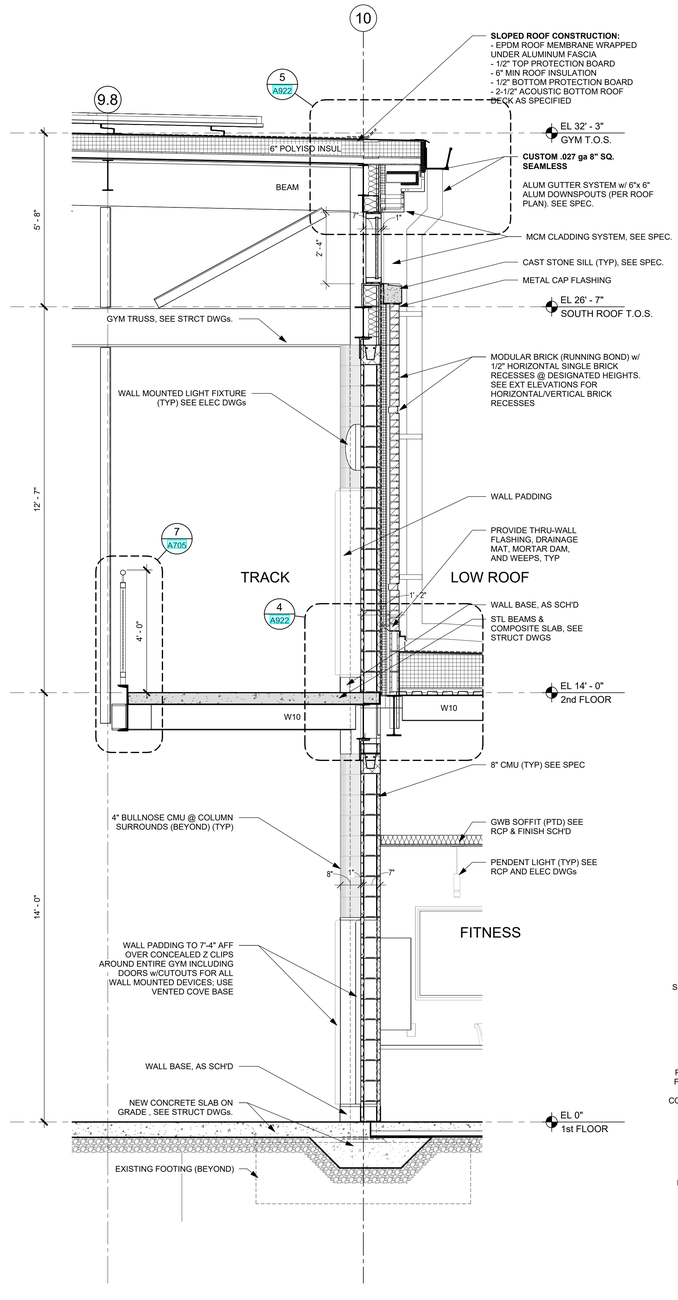
Job No. 2020-1005	Date 12/24/23
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

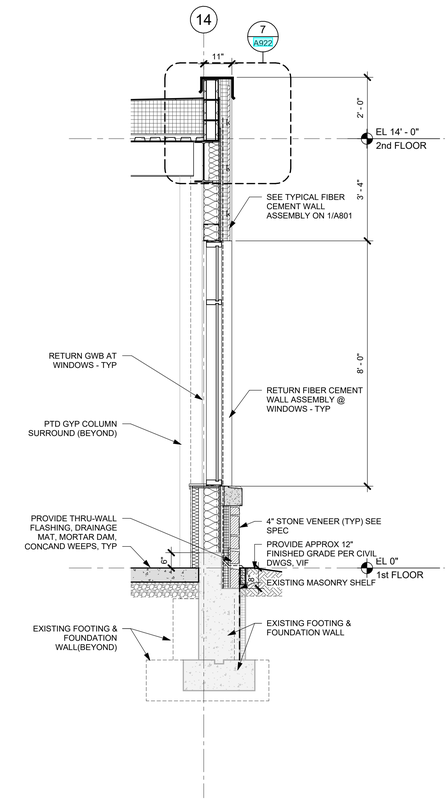
A801



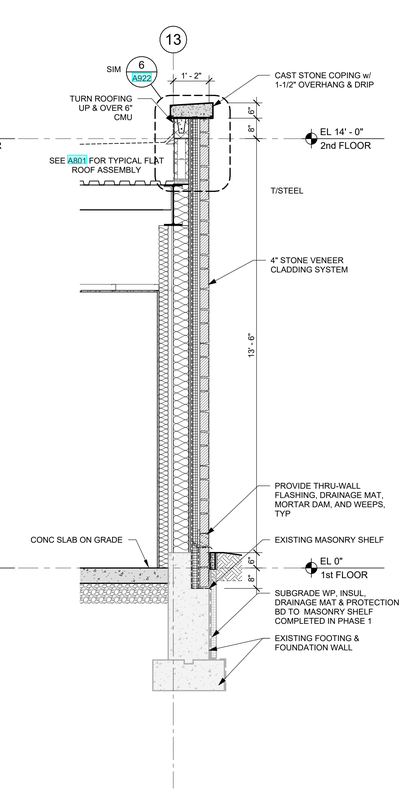
4 WALL SECTION AT GYM WEST
1/2" = 1'-0"



3 WALL SECTION AT GYM NORTH
1/2" = 1'-0"



2 WALL SECTION AT FITNESS AREA
1/2" = 1'-0"



1 WALL SECTION AT LOCKER ROOM NORTH
1/2" = 1'-0"

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No.	Date	Issue
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

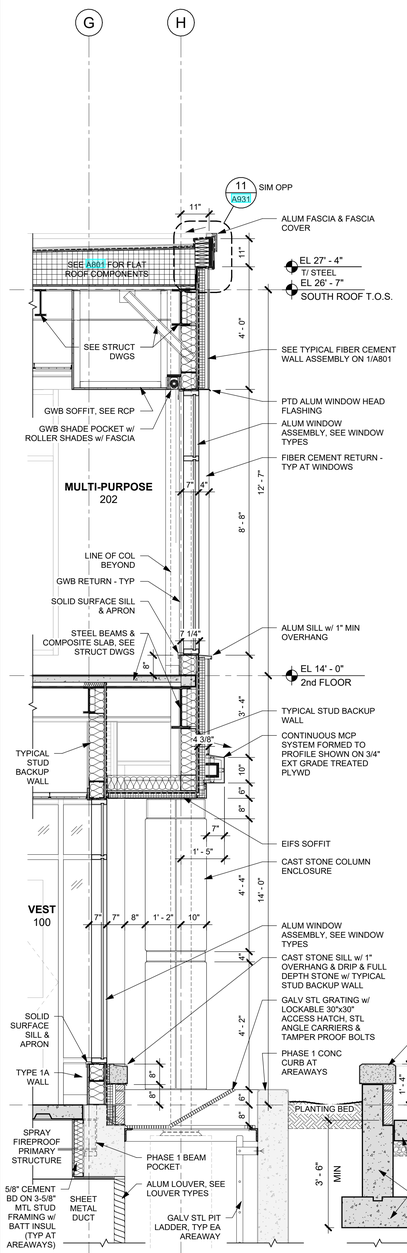
Sheet Title

WALL SECTIONS

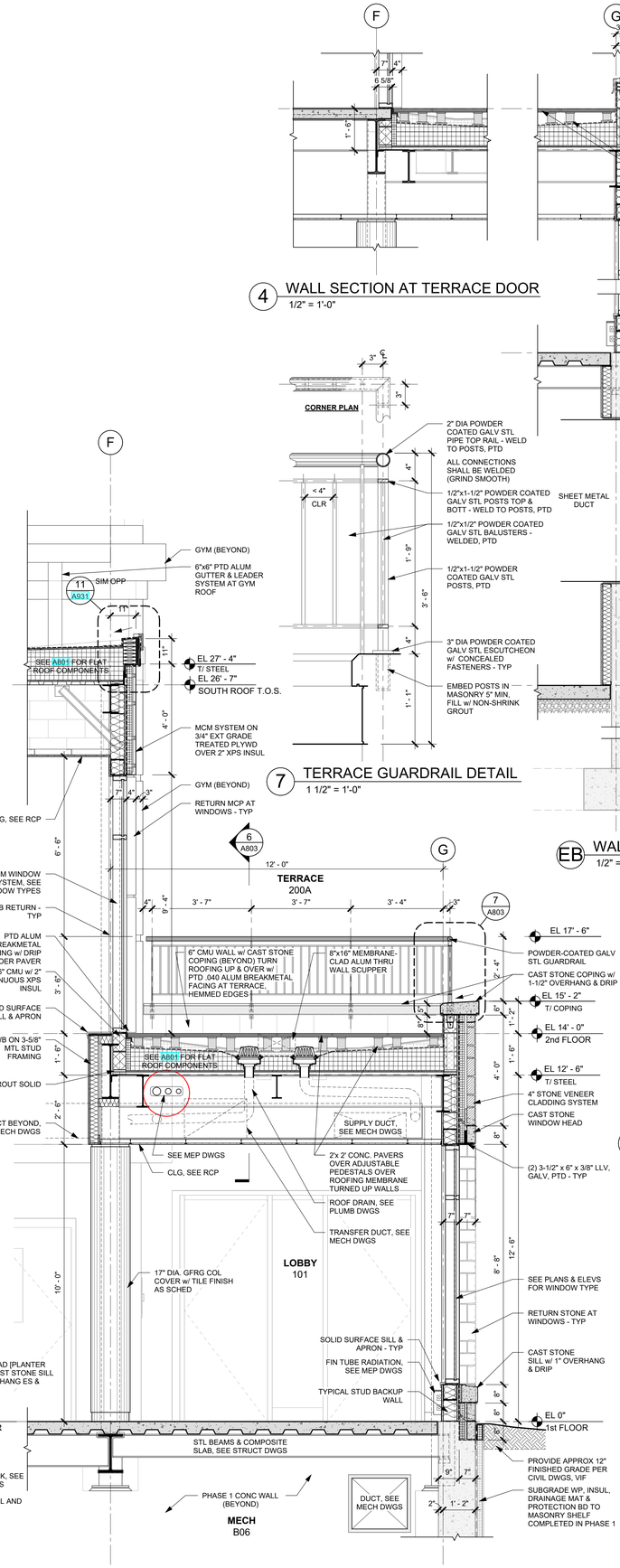
Job No.	Date
2020-1005	01/02/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

A802



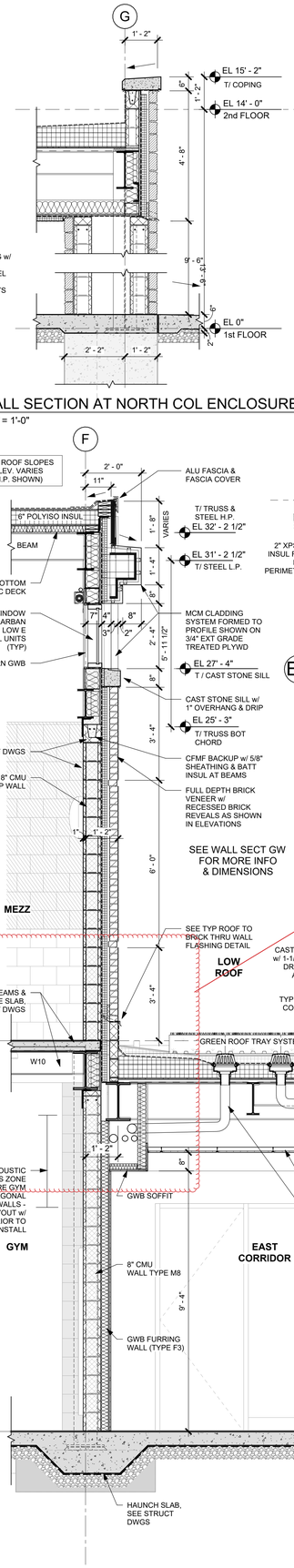
EA WALL SECTION AT ENTRANCE LOBBY
1/2" = 1'-0"



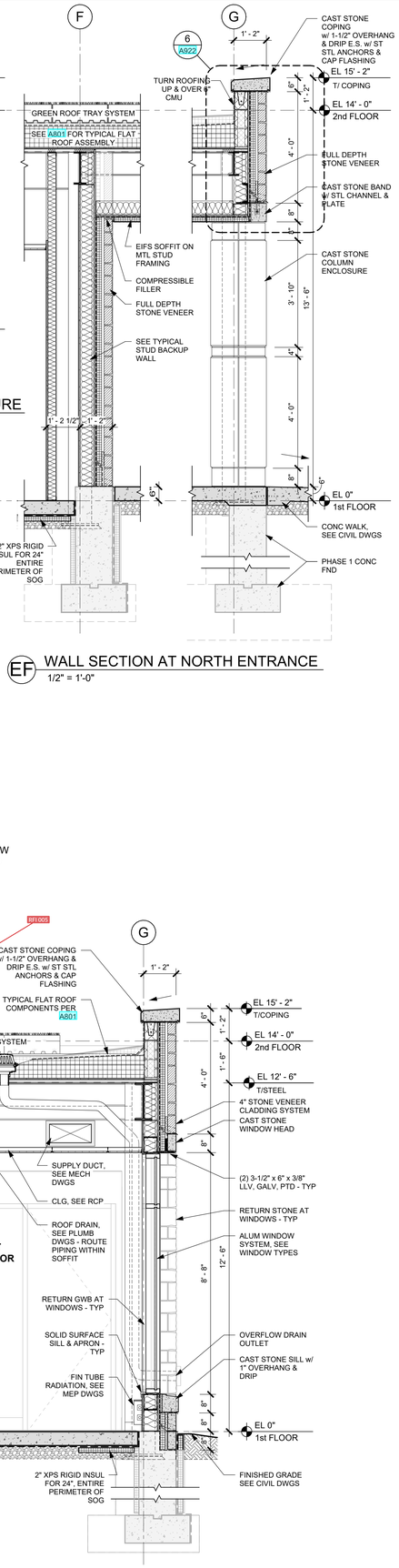
EC WALL SECTION AT TERRACE
1/2" = 1'-0"

7 TERRACE GUARDRAIL DETAIL
1 1/2" = 1'-0"

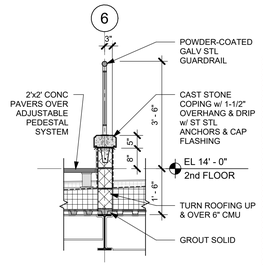
EB WALL SECTION AT TERRACE (MCP)
1/2" = 1'-0"



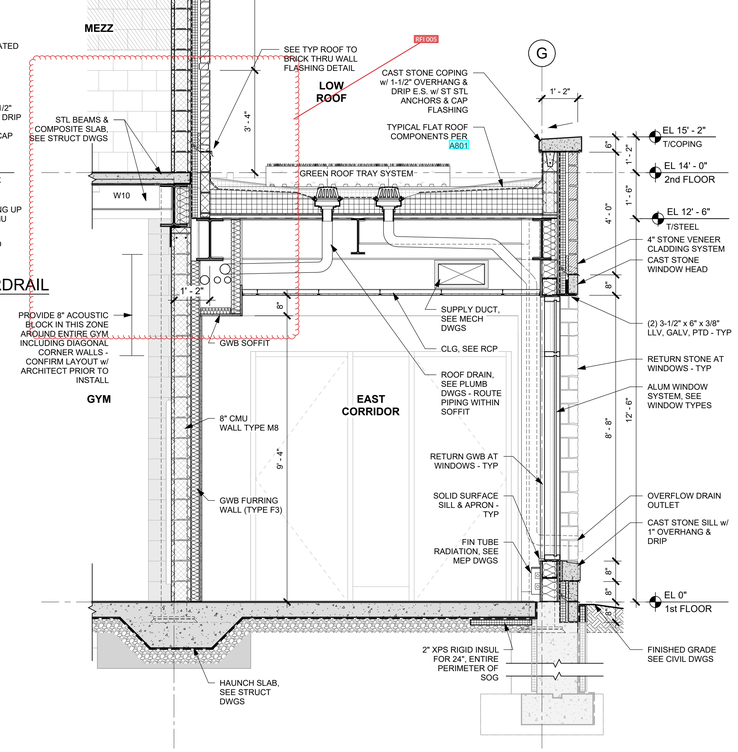
1 WALL SECTION AT NORTH COL ENCLOSURE
1/2" = 1'-0"



EF WALL SECTION AT NORTH ENTRANCE
1/2" = 1'-0"



6 SECTION AT TERRACE GUARDRAIL
1/2" = 1'-0"



ED WALL SECTION AT EAST CORRIDOR
1/2" = 1'-0"

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

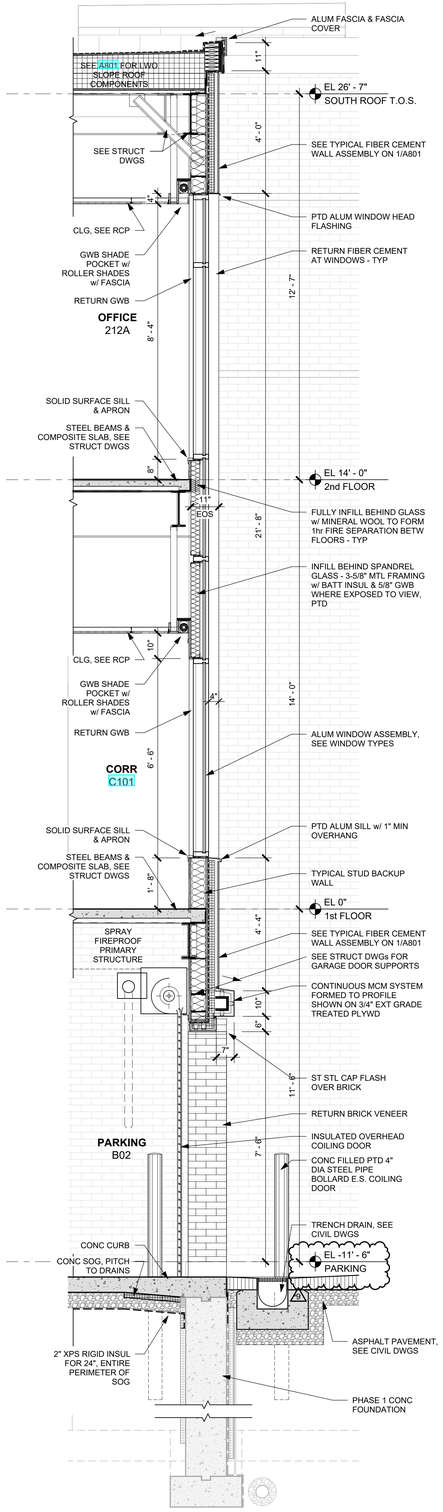
Sheet Title

WALL SECTIONS

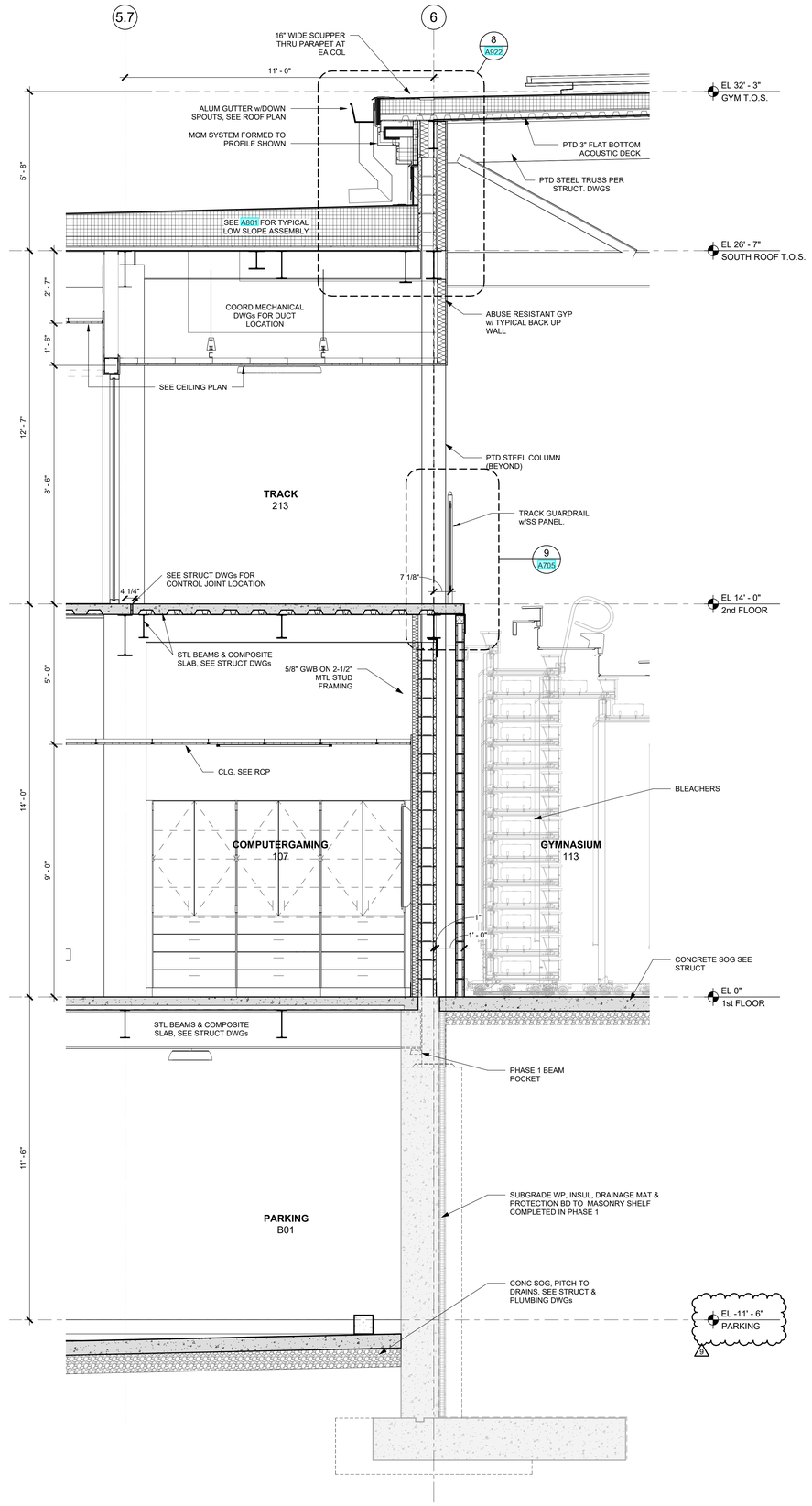
Job No.	Date
2020-1005	02/02/2024
Scale	Drawn / Checked
AS NOTED	KG+D

Sheet Number

A803



2 WALL SECTION AT PARKING ENTRY
1/2" = 1'-0"



1 WALL SECTION AT TRACK AND GYMNASIUM NORTH
1/2" = 1'-0"

HARRISON RECREATION & COMMUNITY CENTER

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

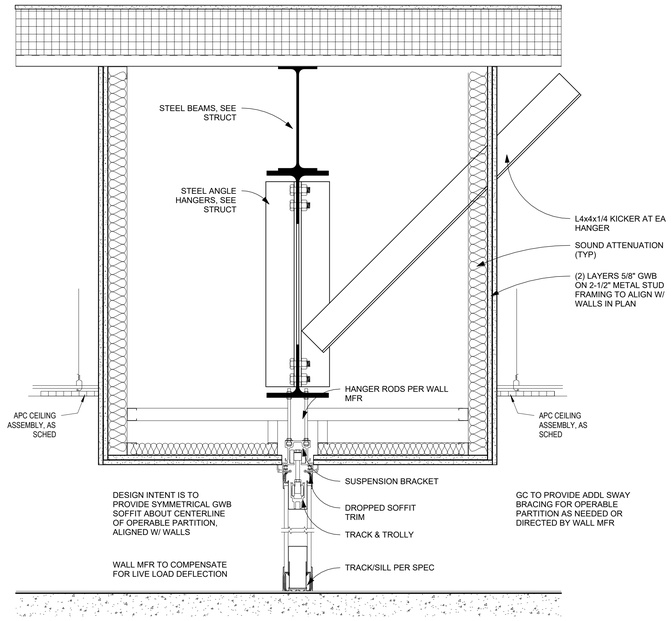
Sheet Title

WALL SECTIONS

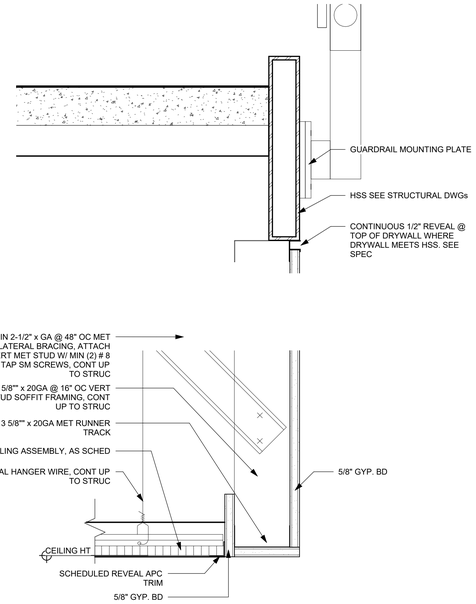
Job No.	Date
2020-1005	01/22/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

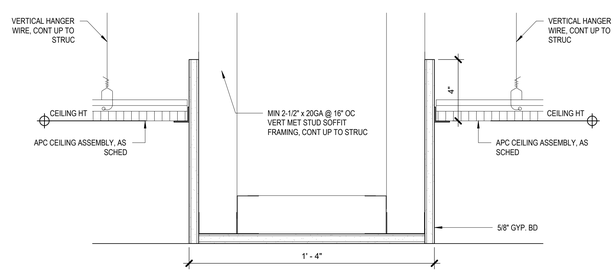
A804



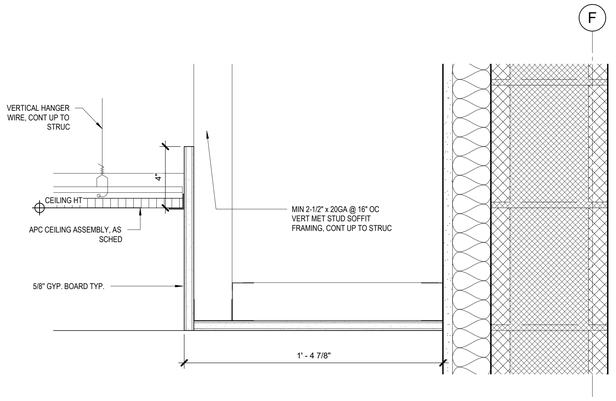
15 OPERABLE PARTITION
1 1/2" = 1'-0"



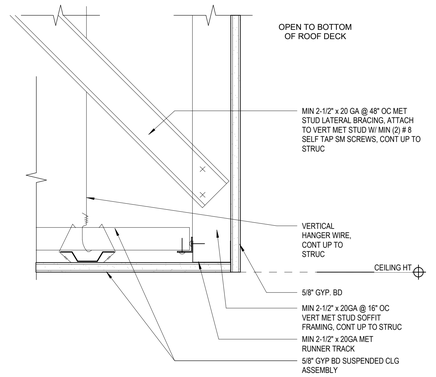
12 CEILING DETAIL @ STAIR C OPENING
3" = 1'-0"



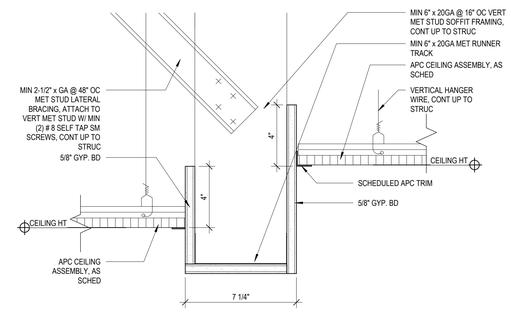
7 CEILING DETAIL @ EAST CORR
3" = 1'-0"



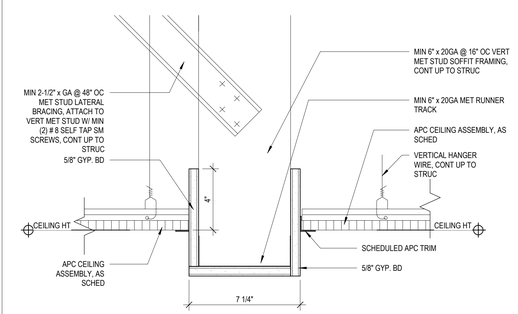
6 CEILING DETAIL @ EAST COR
3" = 1'-0"



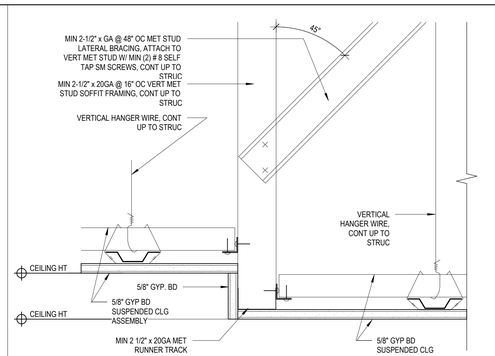
5 CEILING DETAIL @ SOFFIT TO OPEN CEILING
3" = 1'-0"



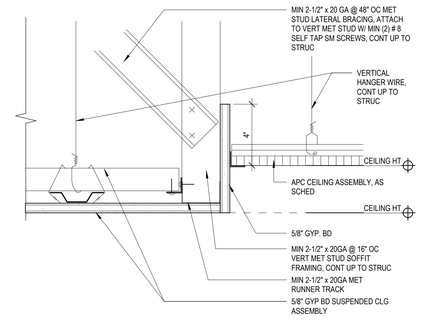
4 CEILING DETAIL AT OPEN OFFICE BULKHEAD
3" = 1'-0"



3 CEILING DETAIL AT BULKHEAD
3" = 1'-0"



2 CEILING DETAIL AT SOFFIT
3" = 1'-0"



1 CEILING DETAIL AT PERIMETER
3" = 1'-0"

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

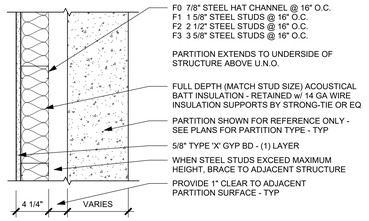
CEILING DETAILS

Job No.	Date
2020-1005	01/29/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

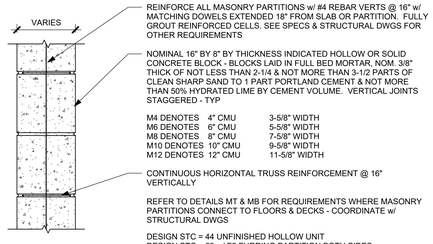
A805

SPECIALTY PARTITIONS



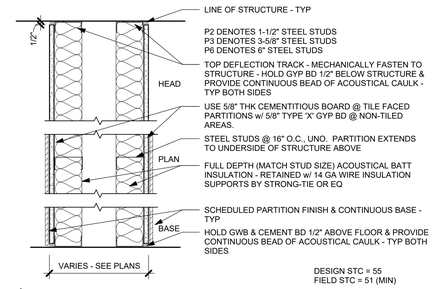
F- FURRING PARTITION

MASONRY PARTITIONS



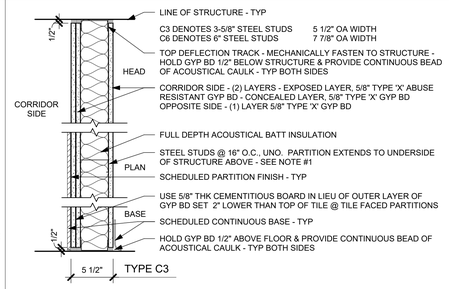
M- CONCRETE MASONRY UNIT (CMU) PARTITION

SHAFT / CHASE PARTITIONS



P- CAVITY PARTITION - PLUMBING, ETC.

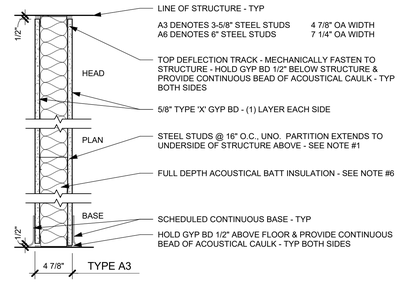
METAL STUD CORRIDOR PARTITIONS



C- CORRIDOR PARTITION

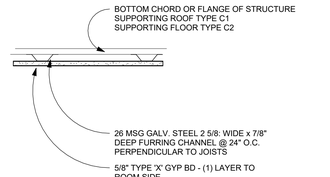
DESIGN STC = 52
FIELD STC = 49 (MIN)

METAL STUD PARTITIONS



A- METAL STUD PARTITION

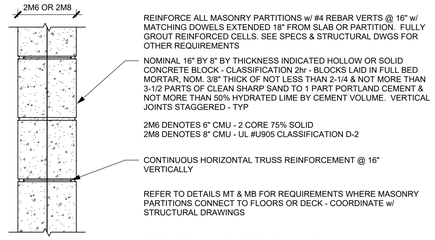
NON-RATED PARTITIONS



C1 1 hr - RATED ROOF/CEILING (UL # P519)

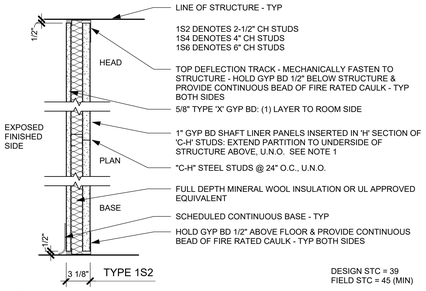
C2 1 hr - RATED FLOOR/CEILING (UL # G515)

MASONRY PARTITIONS



2M- 2 hr FIRE RESISTIVE CMU PARTITION - UL #U906

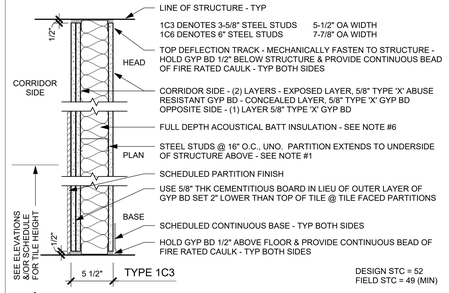
SHAFT / CHASE PARTITIONS



1S- 1 hr SHAFT PARTITION - UL #U415 - SYSTEM A

NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

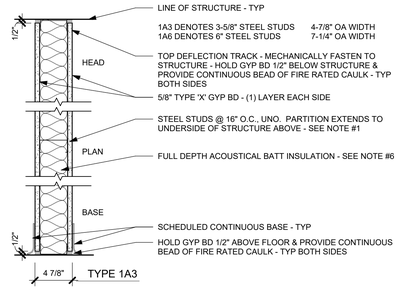
METAL STUD CORRIDOR PARTITIONS



1C- 1 hr FIRE RESISTIVE CORRIDOR PARTITION UL #U465

NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

METAL STUD PARTITIONS

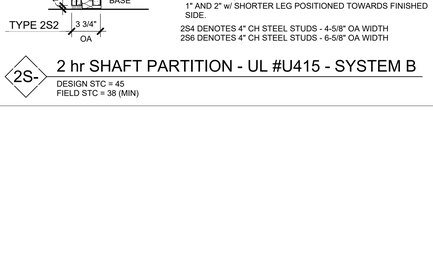


1A- 1 hr FIRE RESISTIVE - UL #U419

NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

1hr RATED PARTITIONS

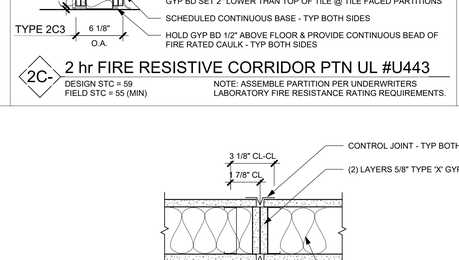
SHAFT / CHASE PARTITIONS



2S- 2 hr SHAFT PARTITION - UL #U415 - SYSTEM B

DESIGN STC = 45
FIELD STC = 38 (MIN)

METAL STUD CORRIDOR PARTITIONS

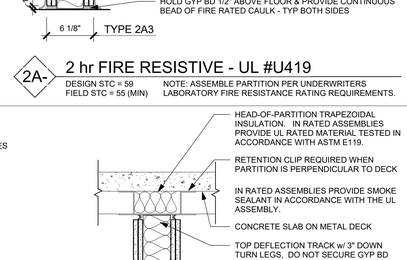


2C- 2 hr FIRE RESISTIVE CORRIDOR PTN UL #U443

DESIGN STC = 59
FIELD STC = 55 (MIN)

NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

METAL STUD PARTITIONS

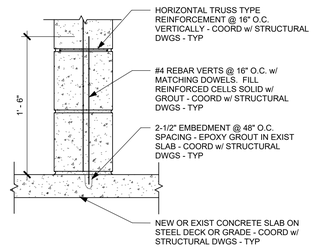


2A- 2 hr FIRE RESISTIVE - UL #U419

DESIGN STC = 59
FIELD STC = 55 (MIN)

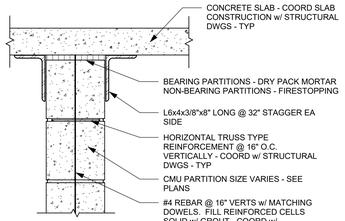
NOTE: ASSEMBLE PARTITION PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

2hr RATED PARTITIONS



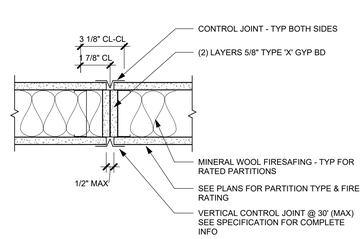
MB TYPICAL CONCRETE MASONRY UNIT PARTITION & SLAB ATTACHMENT

COORDINATE WITH STRUCTURAL DRAWINGS - TYP

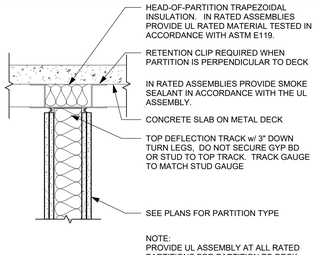


MT TYPICAL CONCRETE MASONRY UNIT PARTITION / SLAB ATTACHMENT

COORDINATE WITH STRUCTURAL DRAWINGS - TYP



A TYPICAL GYP BD CONTROL JOINT



H1 TYPICAL PARTITION HEAD DETAIL @ METAL DECK PERPENDICULAR TO DECK

GENERAL PARTITION NOTES / DETAILS

PARTITION GENERAL NOTES

1. ALL WALL ASSEMBLIES SHALL BE FULL HEIGHT FROM FLOOR TO UNDERSIDE OF FLOOR SLAB, DECK OR ROOF ABOVE, U.N.O.

2. SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.

3. PROVIDE DEFLECTION TRACK AT TOP OF ALL PARTITIONS THAT EXTEND TO STRUCTURE ABOVE. PROVIDE FIRE-RATED DEFLECTION TRACK SYSTEM AT TOP OF ALL FIRE-RATED PARTITIONS.

4. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE.

5. IN MASONRY WALLS, ALL EXPOSED EDGES AND OUTSIDE CORNERS SHALL BE BULLNOSE.

6. SEE FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR WALL TILE LOCATIONS.

7. ALL GYPSUM WALL BOARD PRODUCTS SHALL BE TYPE X, ABUSE AND MOLD-RESITANT, U.N.O.

8. PROVIDE STEEL TUBE, ANGLE OR HEAVY GAUGE STUD REINFORCING INSIDE PARTIAL HEIGHT PARTITIONS, AS REQUIRED TO MEET PARTITION DEFLECTION CRITERIA.

9. FOR ACOUSTICAL BATT INSULATION IN PARTITIONS: SEAL AIRTIGHT w/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. PARTITION MOUNTED ELECTRICAL BOXES SHALL BE OFFSET MIN 24" (NOT BACK-TO-BACK) w/ BOX PERIMETERS SEALED AIR-TIGHT w/ NON-HARDENING ACOUSTICAL SEALANT ALL SIDES. PIPE/DUCT PENETRATIONS SHALL BE SLEEVED, PACKED w/ 10lb DENSITY CLOSED CELL FOAM, & SEALED TO PARTITION w/ NON-HARDENING ACOUSTICAL SEALANT. FIRE-RATED PARTITIONS TO RECEIVE FIRE-RATED PUTTY PADS.

10. COORDINATE REQUIRED STUD GAUGE w/ STRUCTURAL DRAWINGS & SPECIFICATIONS

11. REFER TO SPECIFICATIONS & MANUFACTURER RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS REQUIRED FOR STORAGE & INSTALLATION OF GYPSUM PARTITION BOARD PRODUCTS. PRODUCTS IMPROPERLY STORED OR INSTALLED WITHOUT INDOOR ENVIRONMENTAL CONTROL MAY BE REJECTED.

12. USE (1) LAYER OF CEMENT BOARD IN LIEU OF OUTER LAYER OF GYP BD AT WALL TILE LOCATIONS AS SHOWN &/OR SCHEDULED. CEMENT BOARD SHALL BE 1" FROM HEIGHT/EDGE OF WALL TILE AS NOT TO BE EXPOSED.

13. ASSEMBLE ALL RATED PARTITION TYPES PER UNDERWRITERS' LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.

14. EXISTING PARTITIONS SCHEDULED TO RECEIVE NEW FINISHES SHALL BE FLOATED AS REQUIRED TO PROVIDE SMOOTH SUBSTRATE (LEVEL 4 MIN UNO). PREPARE FOR INSTALLATION OF NEW FINISHES PER MANUFACTURER'S RECOMMENDATIONS.

15. WHERE INFILL OF EXISTING MASONRY PARTITION IS REQUIRED, MASONRY SHALL MATCH THE EXISTING SIZE, JOINTS SHALL BE ALIGNED & THE WALL SHALL HAVE A CLEAN APPEARANCE. IN AREAS VISIBLE TO THE PUBLIC, CONTRACTOR SHALL SAW CUT & TOOTH-IN MASONRY TO MATCH EXISTING.

16. ALL WALL TYPES SHOWN MAY NOT BE IN THE PROJECT. CONFIRM WITH FLOOR PLANS

PARTITION TAG NAMING MATRIX

1st DESIGNATOR = FIRE RATING

0 = NON-RATED PARTITION TYPE
1 = 1 HR FIRE RATED PARTITION TYPE
2 = 2 HR FIRE RATED PARTITION TYPE

2nd DESIGNATOR = PARTITION MATERIAL / FUNCTION

A = GYP BOARD - BOTH SIDES
B = CEMENTITIOUS BOARD - 1 OR BOTH SIDES
C = ABUSE RESISTANT BOARD - 1 OR BOTH SIDES
F = FURRING PARTITION
M = MASONRY PARTITION - CMU
P = PLUMBING CHASE
S = SHAFT PARTITION

3rd DESIGNATOR = PARTITION CORE THICKNESS / WIDTH

0 = 7/8" HAT CHANNEL
1 = 1-5/8" STUD
2 = 2-1/2" STUD
3 = 3-5/8" STUD
4 = 4" STUD OR 3-5/8" CMU
6 = 6" STUD OR 5-5/8" CMU
8 = 8" STUD OR 7-5/8" CMU
10 = 10" STUD OR 9-5/8" CMU
12 = 12" STUD ORT 11-5/8" CMU

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build

KG+D ARCHITECTS, PC

285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

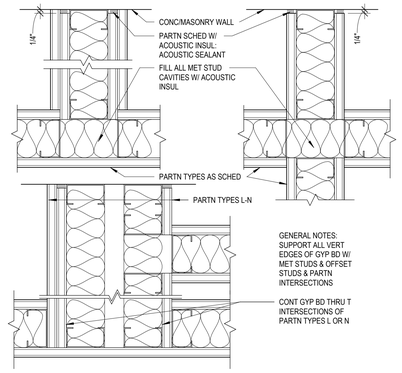
Sheet Title

WALL TYPES & GENERAL NOTES

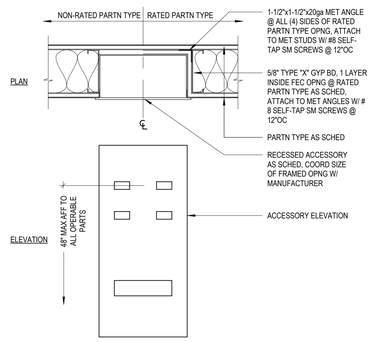
Job No.	Date
2020-1005	03/31/2020
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

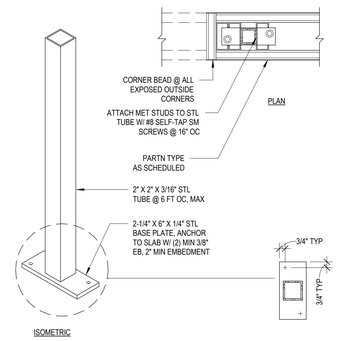
A901



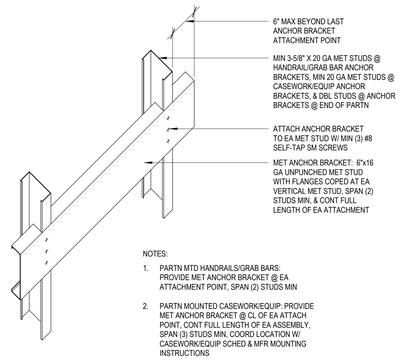
4 TYPICAL PARTITION INTERSECTIONS
3" = 1'-0"



3 RECESSED ACCESSORY CABINET
1 1/2" = 1'-0"



2 PARTIAL HT PARTITION SUPPORT POST
1 1/2" = 1'-0"



NOTES:

1. PARTN MTD HANDRAILS/GRAB BARS: PROVIDE MET ANCHOR BRACKET @ EA ATTACHMENT POINT, SPAN (2) STUDS MIN
2. PARTN MOUNTED CASEWORK/EQUIP: PROVIDE MET ANCHOR BRACKET @ CL OF EA ATTACH POINT, CONT FULL LENGTH OF EA ASSEMBLY, SPAN (3) STUDS MIN, COORD LOCATION W/ CASEWORK/EQUIP SCHED & MFR MOUNTING INSTRUCTIONS

1 TYP MET STUD ANCHOR BRACKET
1 1/2" = 1'-0"

8 METAL DUCT THRU RATED CONC CMU WALL TYP
3" = 1'-0"

7 METAL DUCT THRU RATED GYP
3" = 1'-0"

6 PLASTIC PIPE THRU RATED CONC FLOOR TYP
3" = 1'-0"

5 PIPE-CONDUIT THRU RATED CONC FLOOR TYP
3" = 1'-0"

9 J BOX AT GYP BD PARTITION W ACOUSTICAL INSUL
3" = 1'-0"

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Professional Seal

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

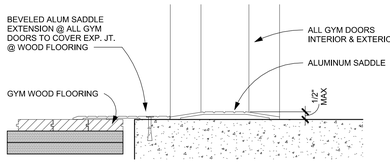
Sheet Title

FRAMING & PENETRATION DETAILS

Job No.	Date
2020-1005	12/01/23
Scale: AS NOTED	Drawn / Checked: Author Checker

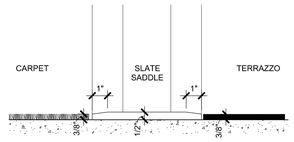
Sheet Number

A902



4E SADDLE DETAIL @ GYM DOORS

SCALE 3"= 1'-0"



4D SADDLE DETAIL

SCALE 3"= 1'-0"

SADDLE NOTES:

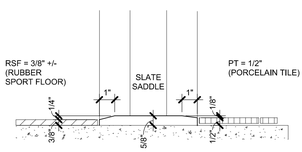
1. COORDINATE DOOR UNDERCUT WITH SADDLE & OTHER UNDERCUTTING REQ. SEE DOOR SCHEDULE & SADDLE DETAILS ON THIS SHEET.

2. SADDLES ARE TO BE FULL WIDTH OF DOOR FRAME

3. SADDLES MAY BE OMITTED WHERE MATERIALS OF SIMILAR THICKNESS MEET WITH THE WRITTEN APPROVAL OF THE ARCHITECT. DOOR UNDERCUTS MUST BE COORDINATED.

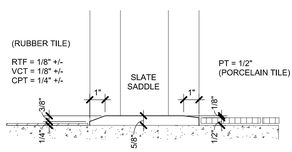
4. AT GYM DOORS, INTERIOR & EXTERIOR, PROVIDE AN EXTENDED ALUMINUM SADDLE TO COVER THE EXPANSION JT AT WOOD FLOORING. SADDLE TO HAVE BEVELED EDGES & NON-SKID SURFACE. COORDINATE WITH WOOD FLOORING INSTALLATION FOR EXTENT.

5. SLATE SADDLES, WHEN USED OR CALLED FOR SHALL BE SELECTED FROM FULL COLOR RANGE TO MATCH ADJACENT FLOORING.



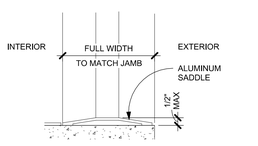
4C SADDLE DETAIL

SCALE 3"= 1'-0"



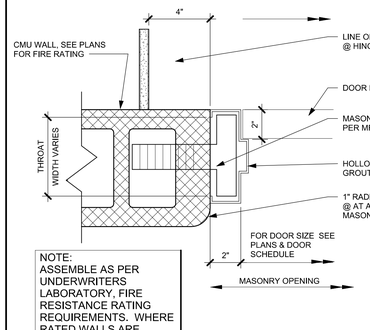
4B SADDLE DETAIL

SCALE 3"= 1'-0"



4A TYPICAL EXTERIOR SADDLE

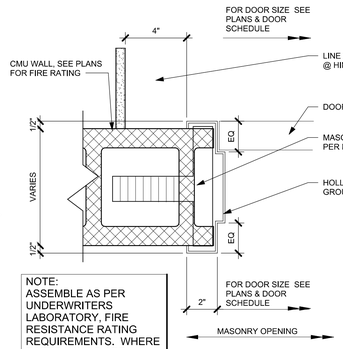
SCALE 3"= 1'-0"



NOTE:
ASSEMBLE AS PER UNDERWRITERS LABORATORY, FIRE RESISTANCE RATING REQUIREMENTS. WHERE RATED WALLS ARE INDICTED.

C DOOR JAMB AT CMU WALL

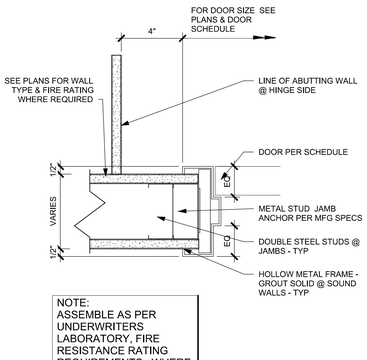
SCALE 3"= 1'-0"



NOTE:
ASSEMBLE AS PER UNDERWRITERS LABORATORY, FIRE RESISTANCE RATING REQUIREMENTS. WHERE RATED WALLS ARE INDICTED.

B DOOR JAMB AT CMU WALL

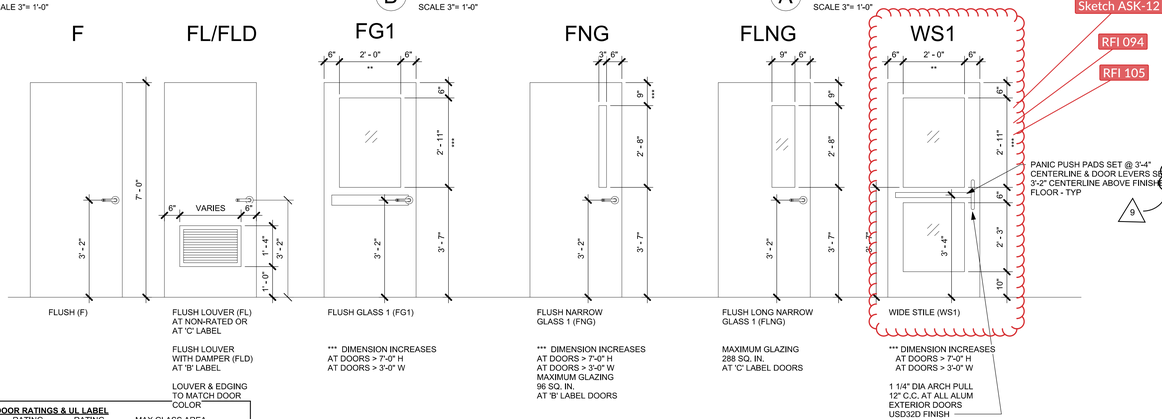
SCALE 3"= 1'-0"



NOTE:
ASSEMBLE AS PER UNDERWRITERS LABORATORY, FIRE RESISTANCE RATING REQUIREMENTS. WHERE RATED WALLS ARE INDICTED.

A DOOR JAMB AT GYP BD WALL

SCALE 3"= 1'-0"



Sketch ASK-12

RFI 094

RFI 105

CHART OF DOOR RATINGS & UL LABEL

UL LABEL	RATING	RATING	MAX GLASS AREA
B	1 1/2 HR	90 MIN	100 SQ INCHES PER LEAF
C	3/4 HR	45 MIN	1296 SQ INCHES PER LEAF
S	SMOKE	SMOKE	

NOTE:
GLAZING AND GLASS SIZES FOR INTERIOR DOORS AND WINDOWS ARE TO COMPLY WITH NFPA 80 OR ASTM E119 - TYP.

DOOR FINISH ABBREVIATIONS

AL	ALUMINUM	SA	SECURE ACCESS
CL	CLASSROOM	SE	SECURE (STORAGE/JANITOR/MECH/ETC)
CS	CORRIDOR, SMOKE, & FIRE DOORS (RATED)	SS	STAINLESS STEEL
EA	EXTERIOR, ALUMINUM	ST	STAIN & SEAL
		SW	STAIRWAY DOOR
F	FLUSH FLOOR		
FF	FACTORY FINISH	TM	TOILET, MULTI-USER
FG1	FLUSH GLASS 1	TS	TOILET, SINGLE-USER
FLNG	FLUSH LONG NARROW GLASS	WD	WOOD
FNG	FLUSH NARROW GLASS	WS1	WIDE STILE 1
HM	HOLLOW METAL		
MBL	MARBLE		
OF	OUTSIDE FACE		
P, PTD	PAINTED		

RFI 044
RFI 047
RFI 063
RFI 077
RFI 079
RFI 080
RFI 083
RFI 086
RFI 091
RFI 093

Door Schedule

Mark	Room	# LEAVES	WI	HT	Elev	Door Mat	Door Fin	Frame Mat	Frame Fin	Frame Type	Fire Label	Saddle	HDWE SET	MH/CR	Comments
PARKING															
B01	PARKING	1	3' - 0"	7' - 0"	F	FRP	FF	HM	PTD	01M		AL	5.0	CR	
B03	ELEC	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01M	45 MIN	AL	28.0		
B04A	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M		AL	27.0		
B04B	STORAGE	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01M		AL	26.0		
B05	OFFICE	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M		AL	18.0		
B06A	MECH	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B06B	MECH	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B07	MECH	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M	45 MIN	AL	27.0		
B08	EMR	2	6' - 0"	7' - 0"	F	WD	FF	HM	PTD	02M			27.0		
SA0	STAIR A	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0		
SB0	STAIR B	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	22.0		
SD0A	STAIR D	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0		
SD0B	STAIR D	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M	60 MIN	AL	23.0		
1st FLOOR															
100A	VESTIBULE	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A9		AL	1.0	CR	SECURITY GLAZING @ DOOR & SIDELITES, ADA AUTO OPEN.
100B	VESTIBULE	2	6' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A9		AL	2.0		SECURITY GLAZING @ DOOR & SIDELITES.
100C	VESTIBULE	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A9		AL	3.0		SECURITY GLAZING @ DOOR & SIDELITES.
100D	LOBBY	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A8			1.0	CR	SECURITY GLAZING @ DOOR & SIDELITES. ADA AUTO OPEN.
100E	LOBBY	2	6' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A8			2.0		SECURITY GLAZING @ DOOR & SIDELITES.
100F	LOBBY	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A8			3.0		SECURITY GLAZING @ DOOR & SIDELITES.
103	OPEN OFFICE	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H2			20.0	CR	
103B	CONF	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H2			18.0		
104	JANITOR	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	26.0		
105	TOILET	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	29.0		
106A	RECREATION	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H1			17.0	CR	
106B	RECREATION	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H1			17.0	CR	
107	COMPUTER	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H1			20.0	CR	
107A	STORAGE	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01M			24.0		
108	ARTS/ CRAFTS	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H5		SL	20.0	CR	
108A	STORAGE	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01			24.0		
109	WOMEN	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	30.0		
110	MEN	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	30.0		
111	DATA	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01			20.0	CR	
112	MEETING	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H4			18.0		
112A	MECH	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01			26.0		
113A	GYM	2	6' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	02M			14.0		
113B	GYM	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M			15.0		
113C	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"
113D	CORR	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01M			21.0		
113E	ELEC	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01M	45 MIN		26.0		
113F	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"
113G	GYM	2	6' - 0"	7' - 0"	FLNG	FRP	FF	AL	FF	02M			7.0		
113H	GYM	2	6' - 0"	7' - 0"	FLNG	FRP	FF	AL	FF	02M			7.0		
113J	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"
113K	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M			25.0		UNDERCUT 1"
113L	ELEC	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02M	45 MIN		27.0		
113M	GYM	2	6' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	02M			14.0		
114A	EAST CORR	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	H3			10.0	MH	
114B	EAST CORR	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	H3			10.0	MH	
114C	EAST CORR	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	H3	60 MIN		9.0	MH	
114D	EAST CORR	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	H3	60 MIN		9.0	MH	
115	LOCKER CORR	2	6' - 0"	8' - 0"	WS1	AL	FF	AL	FF	02		AL	1.1	CR	SECURITY GLAZING @ DOOR & SIDELITES.
118	FAMILY TOILET	1	3' - 0"	7' - 0"	F	WD	PTD	HM	PTD	01		SL	29.0		
119	JANITOR	1	3' - 0"	7' - 0"	F	HM	PTD	HM	PTD	01		SL	26.0		
122	MECH	2	6' - 0"	7' - 0"	F	FRP	FF	AL	FF	02		AL	8.0	CR	
123	FITNESS	2	6' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	02			16.0		
123A	STORAGE	2	6' - 0"	7' - 0"	F	HM	PTD	HM	PTD	02			25.0		UNDERCUT 1"
123B	FITNESS	2	6' - 0"	7' - 0"	FLNG	FRP	FF	AL	FF	02		AL	6.0		
C101	CORR	1	3' - 0"	7' - 0"	FLNG	HM	PTD	HM	PTD	01			21.0		
SA1	STAIR A	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01M	60 MIN		21.0		
SA1A	STAIR A	1	3' - 0"	7' - 0"	WS1	FRP	FF	AL	FF	01M	45 MIN	AL	5.0		
SB1	STAIR B	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01M	60 MIN		21.0		
SC1	STAIR C		3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01	60 MIN		21.0		
2nd FLOOR															
200A	TRACK	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A2			12.0		
200B	TRACK	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A3			12.0		
202A	MULTI-PURPOSE	1	2' - 10"	8' - 0"	WS1	AL	FF	AL	FF	04			12.0		
202B	MULTI-PURPOSE	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A1			12.0		
203A	MULTI-PURPOSE	1	2' - 10"	8' - 0"	WS1	AL	FF	AL	FF	04			12.0		
203B	MULTI-PURPOSE	2	6' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	02			13.0		
203A	STAIR A	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01			26.0	CR	
205B	STORAGE	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01			26.0		
206	PANTRY	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01			19.0		
207	WOMEN	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	30.0		
208	MEN	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	30.0		
209	ELEC	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01	45 MIN		26.0		
209A	EMR	2	5' - 0"	7' - 0"	F	WD	FF	HM	PTD	02			27.0		
210	JANITOR	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	26.0		
211	TOILET	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	01		SL	29.0		
212	OPEN OFFICE	1	3' - 0"	8' - 0"	WS1	AL	FF	AL	FF	A6			11.0		
212A	OFFICE	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H2			18.0		
212B	CONF	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H2			18.0		
212C	OFFICE	1	3' - 0"	7' - 0"	F	WD	FF	HM	PTD	H2			18.0		
C201	TERRACE	1	3' - 0"	7' - 0"	WS1	AL	FF	AL	FF	A4		AL	4.0		
SA2	STAIR A	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01M	60 MIN		21.0		
SB2A	STAIR B	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01M	60 MIN		21.0		
SB2B	STAIR B	1	3' - 0"	7' - 0"	FLNG	WD	FF	HM	PTD	01M	60 MIN		21.0		

DOOR SADDLE NOTES:

1. COORDINATE DOOR UNDERCUT WITH SADDLE & OTHER UNDERCUTTING REQUIRED. SEE DOOR SCHEDULE & SADDLE DETAILS ON THIS SHEET.

2. SADDLES SHALL BE FULL WIDTH OF DOOR FRAME.

3. SADDLES MAY BE OMITTED WHERE MATERIALS OF SIMILAR THICKNESS MEET WITH THE WRITTEN APPROVAL OF THE ARCHITECT.

4. AT GYM DOORS, INTERIOR & EXTERIOR, PROVIDE AN EXTENDED ALUMINUM SADDLE TO COVER THE EXPANSION JOINT AT SPORTS FLOORING. SADDLE SHALL HAVE BEVELED EDGES & NON-SKID SURFACE.

5. SLATE SADDLES, WHEN USED OR CALLED FOR SHALL BE SELECTED FROM FULL COLOR RANGE TO MATCH ADJACENT FLOORING.

DOOR HARDWARE NOTES:

1. PROVIDE "FIRE BOLT" HARDWARE WITH SUITABLE UL LISTING & FIRE RATING FOR DOORS WITHIN FIRE-RATED WALLS & SMOKE BARRIERS (NO-DOGGING PERMITTED).

2. HARDWARE WITHIN FIRE-RATED WALLS SHALL BE RATED FOR THE FIRE-RATING OF THAT WALL.

3. HOLLOW METAL FRAMES WITHIN FIRE WALLS SHALL BE RATED FOR THE FIRE-RATING OF THAT WALL.

4. HOLLOW METAL CROSS-CORRIDOR DOORS SHALL HAVE INTEGRATED / RECESSED PANIC HARDWARE.

5. PROVIDE CONTINUOUS HINGES AT ALL EXTERIOR DOORS & AS NOTED ELSEWHERE. ALL OTHER DOORS SHALL RECEIVE 1½ PR. H.D. BUTT HINGES PER LEAF UNLESS NOTED OTHERWISE.

6. PROVIDE INTEGRAL HOLD-OPEN FEATURE ON OVERHEAD CLOSERS AT MAIN ENTRY DOORS & ASSOCIATED VESTIBULE DOORS. ALSO AS NOTED IN DOOR SCHEDULE & WHERE ADJACENT WALL(S) CANNOT PROVIDE 90° WALL TYPE MAGNETIC HOLD OPEN.

7. AT SMOKE & FIRE DOORS WITH MAGNETIC HOLD-OPEN FEATURE THAT DO NOT HAVE A WALL ADJACENT FOR MOUNTING HOLD-OPEN, PROVIDE INTEGRATED TYPE WITHIN FRAME. G.C. TO COORDINATE THIS WITH E.C. FOR INCLUSION OF WIRING.

8. PROVIDE KICK PLATE ON PUSH SIDE OF ALL DOORS EXCEPT ALUMINUM DOORS. PROVIDE MOP PLATES ON PULL SIDE OF ALL DOORS EXCEPT AT CARPETED AREAS.

9. PROVIDE (3) SILENCERS ON ALL STRIKE JAMBS.

10. PROVIDE APPROPRIATE WALL, OR OVERHEAD STOP FOR EACH DOOR LOCATION. FLOOR STOPS SHALL NOT BE USED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT, ON A CASE-BY-CASE BASIS.

11. PROVIDE BLOCKING IN WALL AT AREAS OF WALL STOPS.

12. PROVIDE PANIC DEVICE GLASS BEAD SHIM KIT WHERE REQUIRED.

13. SEE PLANS FOR HARDWARE SWING EXTENT & PROVIDE HARDWARE ACCORDINGLY.

14. SIZE HINGES & CLOSERS TO MATCH DOOR SIZE & WEIGHT.

15. SMOKE / FIRE DOORS SHALL HAVE SMOKE / FIRE GASKETS.

16. PROVIDE DUST-PROOF STRIKE WITH ALL VERTICAL ROD EXIT DEVICES.

17. SEE DOOR SCHEDULE FOR SPECIFIC EXCEPTIONS TO HARDWARE SETS.

18. SEE DOOR SCHEDULE FOR DOOR SADDLE MATERIAL.

19. ALL HARDWARE SHALL BE FULL MORTISE DESIGN UNLESS NOTED OTHERWISE.

20. KEYING SYSTEM AS DIRECTED BY OWNER.

21. COORDINATE ELECTRICAL REQUIREMENTS FOR HARDWARE & ADDITIONAL EQUIPMENT (BURGLAR ALARM, ETC.) BY OWNER. PRIOR TO ORDERING DOOR HARDWARE, G.C. SHALL COORDINATE WITH OWNER REGARDING ELECTRICAL REQUIREMENTS AT SPECIFIED DOORS TO CONFIRM PROPER FUNCTION & SECURITY REQUIREMENTS.

DOOR GENERAL NOTES

GENERAL NOTES:

1. DOORS, FRAMES, SIDELIGHTS, TRANSOMS & ASSOCIATED GLAZING SHALL MEET SCHEDULED FIRE RATINGS.

2. GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O.. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.

3. CONTRACTOR SHALL VERIFY SIZES OF EXISTING DOORS & FRAMES NOTED FOR REPLACEMENT PRIOR TO ORDERING.

4. SEE DOOR SCHEDULE & SPECIFICATION FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.

5. EXTERIOR DOOR SYSTEMS SHALL BE FULLY PERIMETER CAULKED TO ADJACENT FINISHED SURFACES, BOTH INTERIOR & EXTERIOR EXCEPT WHERE SUCH ACTIONS WOULD DISRUPT PROPER DRAINAGE TO THE EXTERIOR.

6. EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYED REMOVABLE MULLION, PLUG TYPE WIRING HARNESS, RIM CYLINDER EXIT DEVICE WITH KEYED CYLINDER DOGGING. EXCEPTIONS ARE CROSS-CORRIDOR, STAIR & FIREWALL DOORS.

7. INTERIOR DOOR PAIRS SHALL HAVE A HOLLOW METAL KEYED REMOVABLE MULLION, PLUG TYPE WIRING HARNESS, RIM CYLINDER EXIT DEVICE WITH KEYED CYLINDER DOGGING. EXCEPTIONS ARE CROSS-CORRIDOR, STAIR & FIREWALL DOORS.

8. SEE DOOR SCHEDULE FOR DOOR & FRAME FINISHES.

9. DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVERS OR ARCHITECTURAL PULLS.

10. COORDINATE KEYING WITH OWNER PRIOR TO ORDERING HARDWARE.

11. ALL NEW & REPLACEMENT INTERIOR DOOR FRAMES SHALL BE FULLY WELDED TYPE, KNOCKDOWN (KD) FRAMES SHALL NOT BE USED.

12. VERIFY HOLD-OPENS & STOPS WITH ADJACENT CONDITIONS.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. GLAZING IN FIRE RATED DOORS SHALL BE FIRELITE PLUS TO MEET THE FIRE RATING SCHEDULED, UNLESS NOTED OTHERWISE.
2. G.C. SHALL VERIFY SIZE OF REPLACEMENT DOORS & FRAMES IN THE EXISTING BUILDING BEFORE ORDERING.
3. SEE SPEC. SECTION 08 71 00 FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
4. EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE W/KEYED CYLINDER DOGGING.
5. INTERIOR DOOR PAIRS SHALL HAVE AN HOLLOW METAL KEYED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE W/KEYED CYLINDER DOGGING. EXCEPTION IS CROSS-CORRIDOR DOOR PAIRS & DOORS INTO STAIRS.
6. FRP DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVER OR ARHECTECTURAL PULLS. RECESSED DOOR PULL NOT ACCEPTABLE.
7. FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYPICAL) U.N.O. SEE DETAILS A & B ON A9.2.

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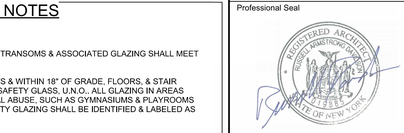
Professional Seal



No.	Date	Issue
9	04/07/2025	BULLETIN 7
8	10/09/2024	FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

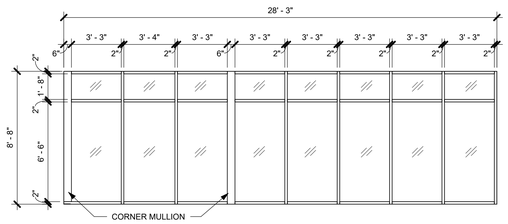
Sheet Title

DOOR SCHEDULE & TYPICAL DOOR DETAILS

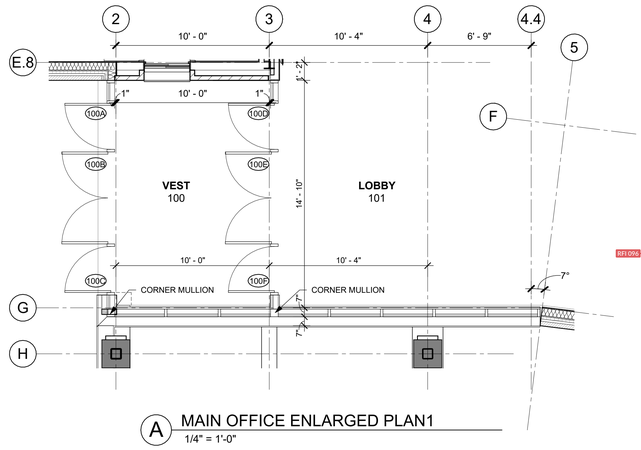
Job No.	Date
2020-1005	-
Scale	Drawn / Checked
AS NOTED	- -

Sheet Number

A911



A7 FRAME TYPE - 01
1/4" = 1'-0"



A MAIN OFFICE ENLARGED PLAN1
1/4" = 1'-0"

WINDOW GENERAL NOTES

1. GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O.. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.

2. FIRE-RATED GLAZING ASSEMBLIES, SIZES & TYPES SHALL COMPLY w/ NFPA 80 &/OR ASTM E119. FIRE-RATING OF FRAME SHALL MATCH FIRE-RATING OF GLAZING.

3. PROVIDE INSECT SCREENS FOR ALL OPERABLE WINDOWS.

4. SCREENS ON RESCUE WINDOWS SHALL BE HINGED & SHALL BE OPERABLE FROM THE INSIDE WITH ONE HAND & WITHOUT THE USE OF A KEY OR OTHER DEVICE.

5. AT INTERIOR AREAS BEHIND SPANDREL PANELS PROVIDE FRAMING, INSULATION & FINISH MATERIAL TO MATCH ADJACENT WALLS.

6. FRAME(S) SHALL MEET FIRE RATING OF WALL ASSEMBLY, U.N.O.

7. G.C. SHALL PROVIDE LOUVERS & COORDINATE FREE AREA REQUIRED.

8. EXTERIOR LOUVERS SHALL BE 4" DEEP (MIN) ALUMINUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, w/ 50% FREE AREA (MIN) FINISHED IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, w/ BIRD SCREEN, U.N.O. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED-OFF w/ BLACK PTD SHEETMETAL & INSULATED.

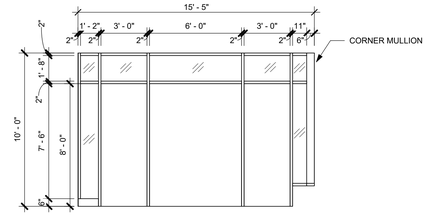
GLAZING LEGEND & TYPES

INTERIOR

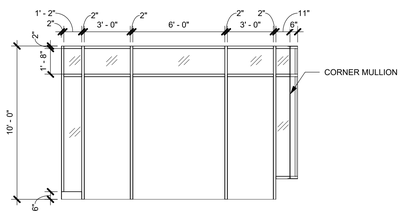
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
	WHERE NO TYPE IS INDICATED	GENERAL	CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED
FP-	*FP-RATING*	FIRE PROTECTION - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM)
FR-	*FR-RATING*	FIRE RESISTANCE - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP)
	SG-1	SECURITY GLASS	CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4)

EXTERIOR

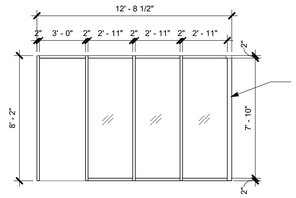
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
		GENERAL	INSULATED CLEAR ANNEALED GLASS w/ LOW-E (SOLARBAN 70) - USE HEAT-STRENGTHENED, LAMINATED, &/OR TEMPERED AS NOTED &/OR SPECIFIED
		SPANDREL	INSULATED CLEAR HEAT-STRENGTHENED GLASS w/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED
	SG-4	SECURITY GLASS	INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS w/ LOW-E (SCHOOL GUARD SG4 IGU w/ SOLARBAN 70)



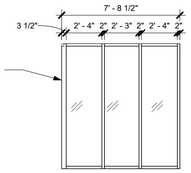
A9 FRAME TYPE - A9
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELITES AND TRNASOMS



A8 FRAME TYPE - A8
1/4" = 1'-0" PROVIDE SG-4 (SECURITY GLASS) IN DOORS, SIDELITES AND TRNASOMS



A6 FRAME TYPE - A6
1/4" = 1'-0"



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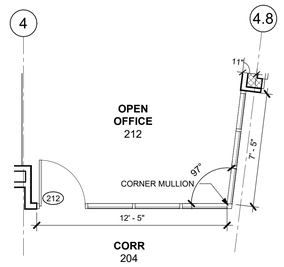
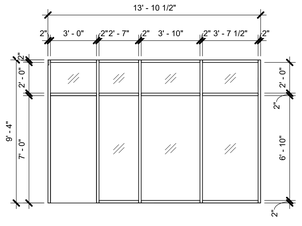


B ENLARGED PLAN @ OPEN OFFICE 212
1/4" = 1'-0"



A4 WINDOW TYPE - A4
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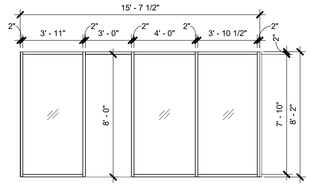

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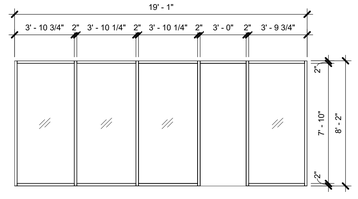

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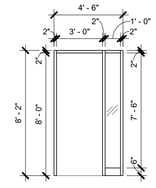
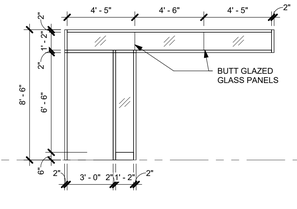


A1 FRAME TYPE - A1
1/4" = 1'-0"

ALUMINUM FRAME TYPES

HOLLOW METAL FRAME TYPES



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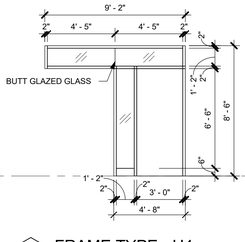
1/4" = 1'-0"



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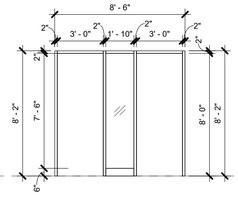
1/4" = 1'-0"



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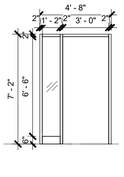
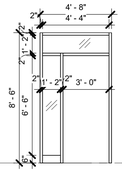
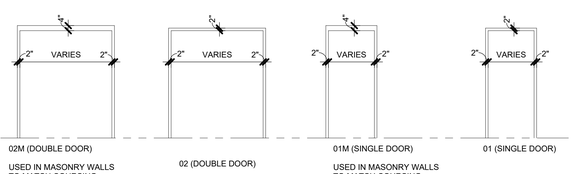
1/4" = 1'-0"



H2 FRAME TYPE - H2
1/4" = 1'-0"



H1 FRAME TYPE - H1
1/4" = 1'-0"



HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

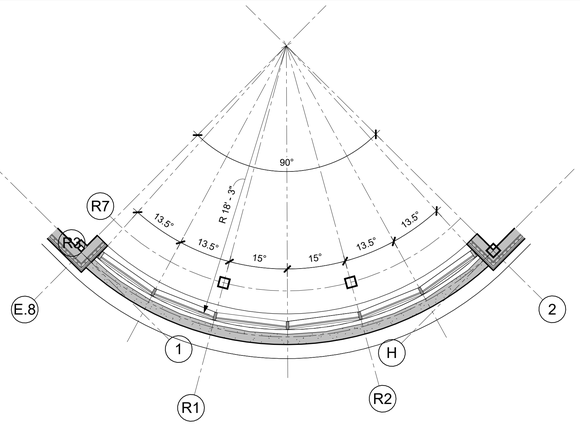
Sheet Title

DOOR & FRAME TYPES

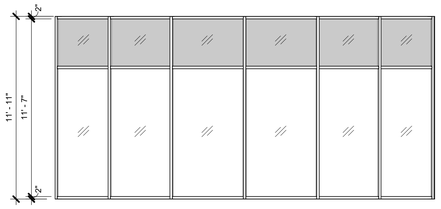
Job No. 2020-1005	Date 12/01/23
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

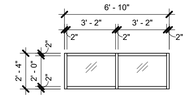
A912



1 ENLARGED WINDOW PLAN
1/4" = 1'-0"



2G WINDOW TYPE 2G
1/4" = 1'-0"



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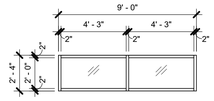

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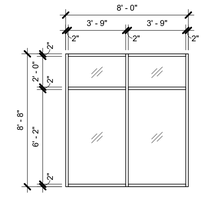
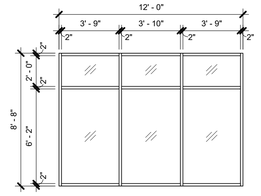
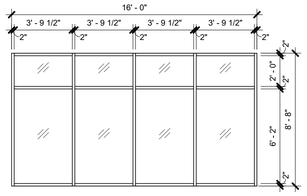
1/4" = 1'-0"



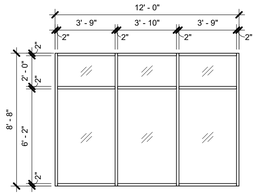
2E WINDOW TYPE 2E
1/4" = 1'-0"



2C WINDOW TYPE 2C
1/4" = 1'-0"



2B WINDOW TYPE 2B
1/4" = 1'-0"



2A WINDOW TYPE 2 A
1/4" = 1'-0"

2nd FLOOR EXTERIOR GLAZING

WINDOW GENERAL NOTES

1. GLAZING IN DOORS, SIDELIGHTS & WITHIN 18" OF GRADE, FLOORS, & STAIR LANDINGS SHALL BE LAMINATED SAFETY GLASS, U.N.O.. ALL GLAZING IN AREAS WHERE USE MAY CAUSE PHYSICAL ABUSE, SUCH AS GYMNASIUMS & PLAYROOMS SHALL BE SAFETY GLAZING. SAFETY GLAZING SHALL BE IDENTIFIED & LABELED AS SAFETY GLAZING.

2. FIRE-RATED GLAZING ASSEMBLIES, SIZES & TYPES SHALL COMPLY w/ NFPA 80 &/OR ASTM E119. FIRE-RATING OF FRAME SHALL MATCH FIRE-RATING OF GLAZING.

3. PROVIDE INSECT SCREENS FOR ALL OPERABLE WINDOWS.

4. SCREENS ON RESCUE WINDOWS SHALL BE HINGED & SHALL BE OPERABLE FROM THE INSIDE WITH ONE HAND & WITHOUT THE USE OF A KEY OR OTHER DEVICE.

5. AT INTERIOR AREAS BEHIND SPANDREL PANELS PROVIDE FRAMING, INSULATION & FINISH MATERIAL TO MATCH ADJACENT WALLS.

6. FRAME(S) SHALL MEET FIRE RATING OF WALL ASSEMBLY, U.N.O.

7. G.C. SHALL PROVIDE LOUVERS & COORDINATE FREE AREA REQUIRED.

8. EXTERIOR LOUVERS SHALL BE 4" DEEP (MIN) ALUMINUM HORIZONTAL BLADE, STORM-PROOF, DRAINABLE, w/ 50% FREE AREA (MIN) FINISHED IN PREMIUM (KYNAR) METALLIC (OR CUSTOM) COLOR SELECTED BY ARCHITECT, w/ BIRD SCREEN, U.N.O. UNUSED PORTIONS OF LOUVERS SHALL BE BLANKED-OFF w/ BLACK PTD SHEETMETAL & INSULATED.

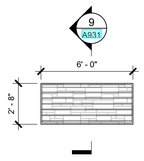
GLAZING LEGEND & TYPES

INTERIOR

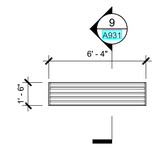
KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
	WHERE NO TYPE IS INDICATED	GENERAL	CLEAR FLOAT GLASS - SAFETY GLASS WHERE NOTED &/OR SPECIFIED
	FP-*RATING*	FIRE PROTECTION - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS FIRE DOOR CRITERIA & HOSE STREAM TEST PER NFPA 252 (FIRELITE PLUS PREMIUM)
	FR-*RATING*	FIRE RESISTANCE - RATING AS INDICATED	CLEAR LAMINATED CERAMIC GLASS - MEETS WALL ASSEMBLY & 450° TEMP RISE CRITERIA PER ASTM E119 & NFPA 252 (PILKINGTON PYROSTOP)
	SG-1	SECURITY GLASS	CLEAR CUSTOM SECURITY LAMINATED GLASS (SCHOOL GUARD SG4)

EXTERIOR

KEY	TYPES	USE	DESCRIPTION / BASIS-OF-DESIGN
		GENERAL	INSULATED CLEAR ANNEALED GLASS w/ LOW-E (SOLARBAN 70) - USE HEAT-STRENGTHENED, LAMINATED, &/OR TEMPERED AS NOTED &/OR SPECIFIED
		SPANDREL	INSULATED CLEAR HEAT-STRENGTHENED GLASS w/ LOW-E (SOLARBAN 70) & SPANDREL COATING AS SPECIFIED
	SG-4	SECURITY GLASS	INSULATED CLEAR CUSTOM SECURITY LAMINATED GLASS w/ LOW-E (SCHOOL GUARD SG4 IGU w/ SOLARBAN 70)



L3 ALUM LOUVER
1/4" = 1'-0"



L2 ALUM LOUVER
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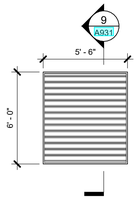
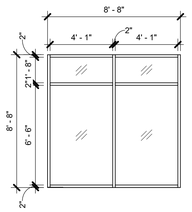
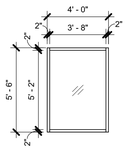


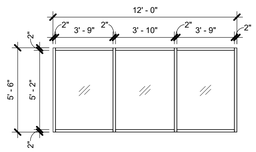
L1 ALUM LOUVER
1/4" = 1'-0"



1G WINDOW TYPE 1G
1/4" = 1'-0"



1F WINDOW TYPE 1F
1/4" = 1'-0"



1E WINDOW TYPE 1E
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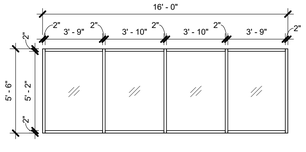

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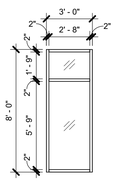

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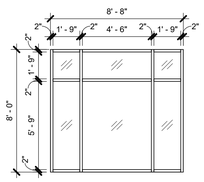
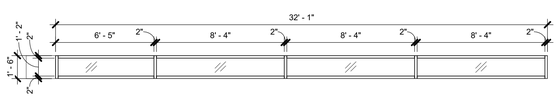


1A WINDOW TYPE 1A
1/4" = 1'-0"

1st FLOOR EXTERIOR GLAZING



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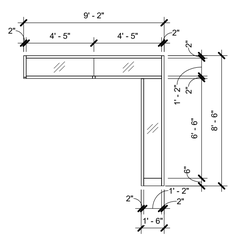
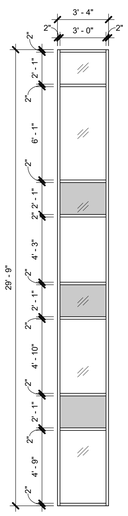
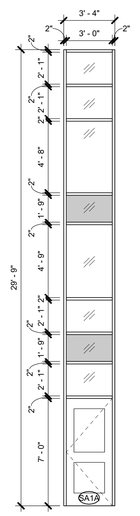


1P WINDOW TYPE 1P
1/4" = 1'-0"

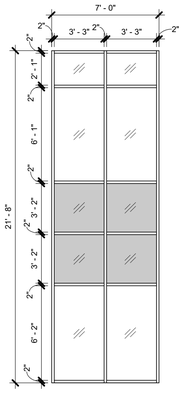
1st FLOOR INTERIOR GLAZING (HOLLOW METAL)



1Z WINDOW TYPE 1Z
1/4" = 1'-0"



1Y WINDOW TYPE 1Y
1/4" = 1'-0"



1X WINDOW TYPE 1X
1/4" = 1'-0"

MULTI-STORY EXTERIOR ALUMINUM CURTAIN WALL ASSEMBLIES

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Harrison, NY 10528

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

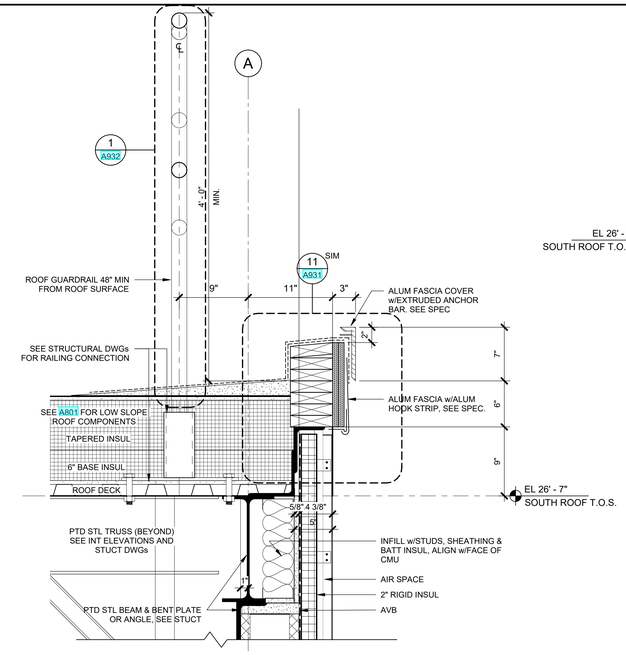
Sheet Title

WINDOW TYPES

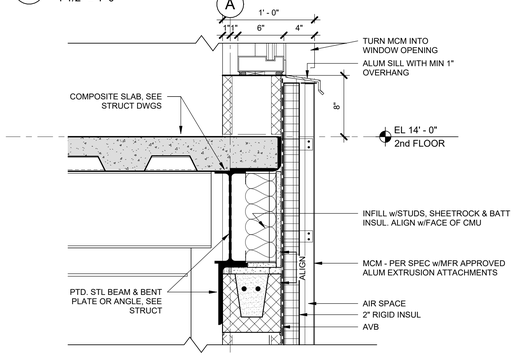
Job No.	Date
2020-1005	06/01/2020
Scale: AS NOTED	Drawn / Checked: - -

Sheet Number

A913



9 WALL SECTION AT WEST TRACK - Callout 1
1 1/2" = 1'-0"



8 WALL SECTION AT WEST TRACK - Callout 2
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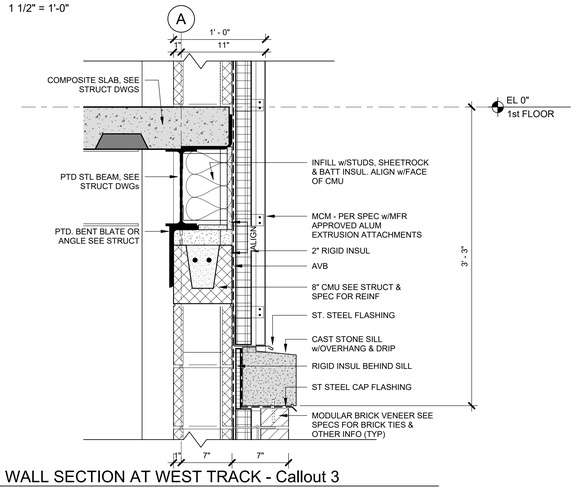
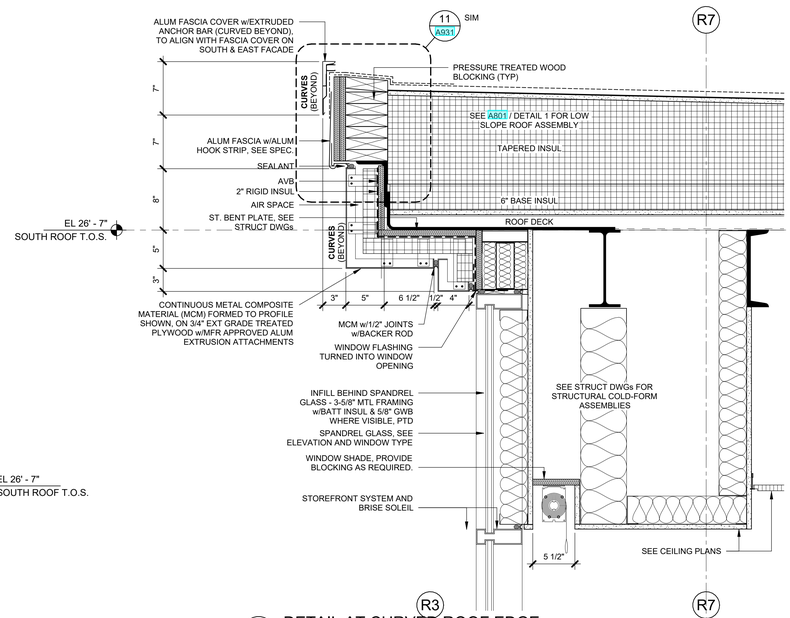
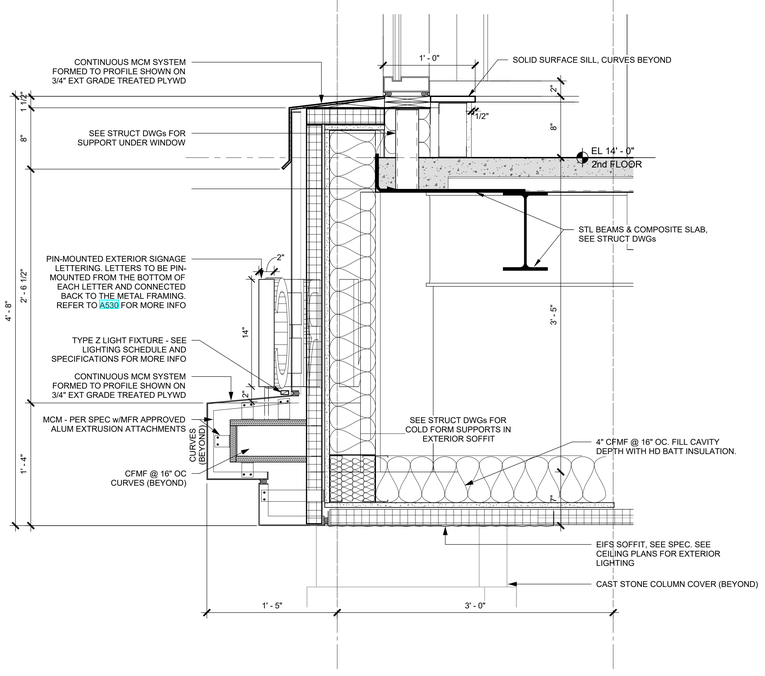


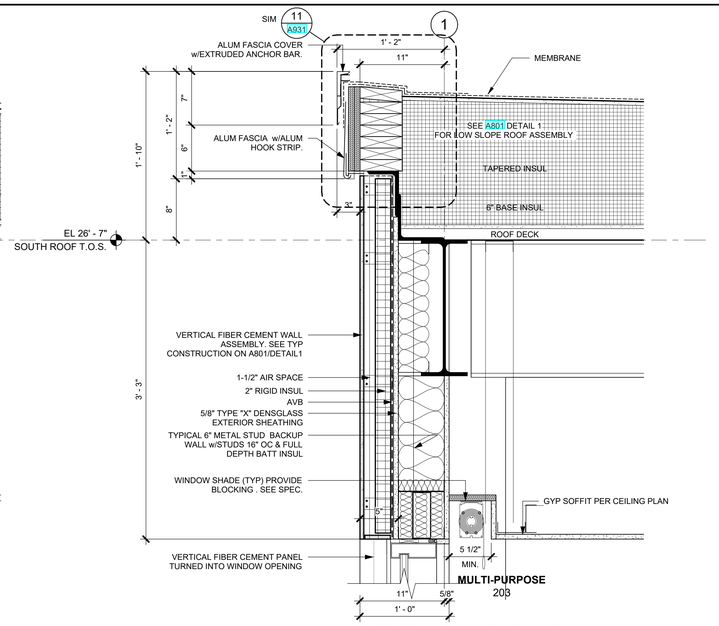
7 WALL SECTION AT WEST TRACK - Callout 3
1 1/2" = 1'-0"



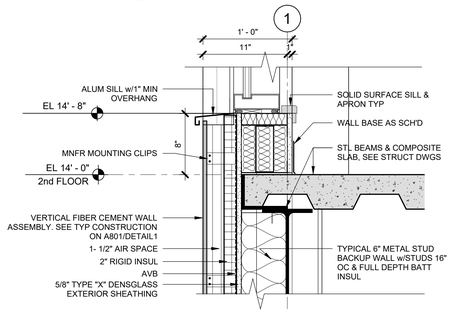
6 DETAIL AT CURVED ROOF EDGE
1 1/2" = 1'-0"



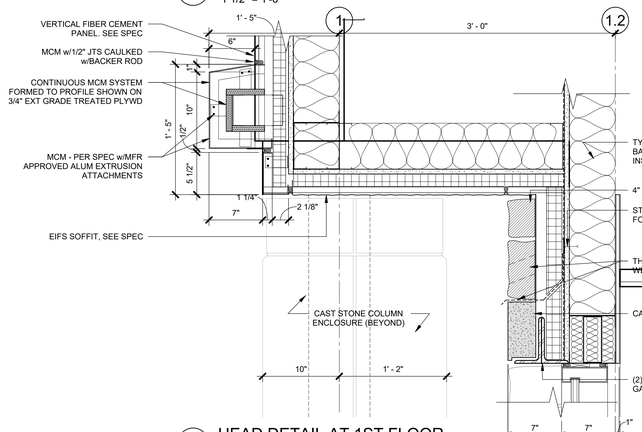
5 DETAIL AT ENTRANCE SIGNAGE
1 1/2" = 1'-0"



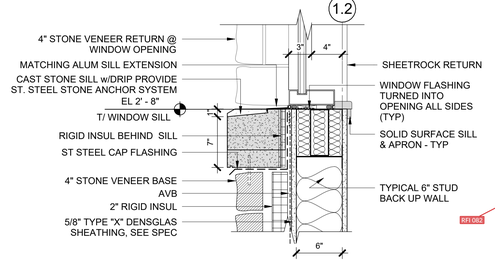
4 ROOF EDGE AT SOUTH ROOF
1 1/2" = 1'-0"



3 SILL DETAIL AT 2ND FLOOR
1 1/2" = 1'-0"



2 HEAD DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"



1 SILL DETAIL AT 1ST FLOOR
1 1/2" = 1'-0"

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

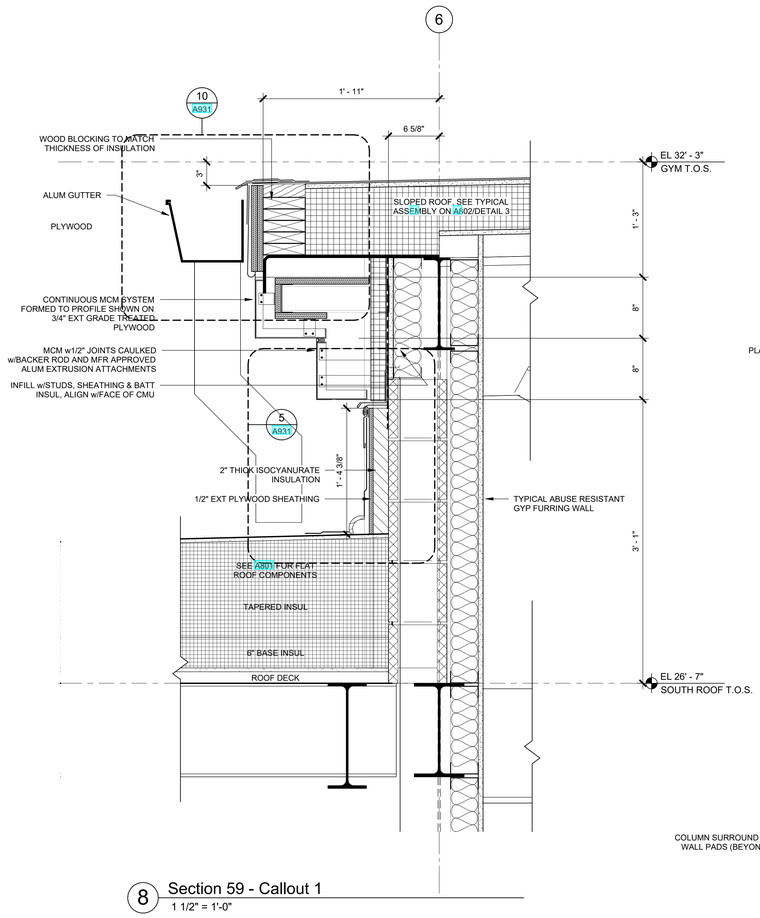
Sheet Title

EXTERIOR DETAILS

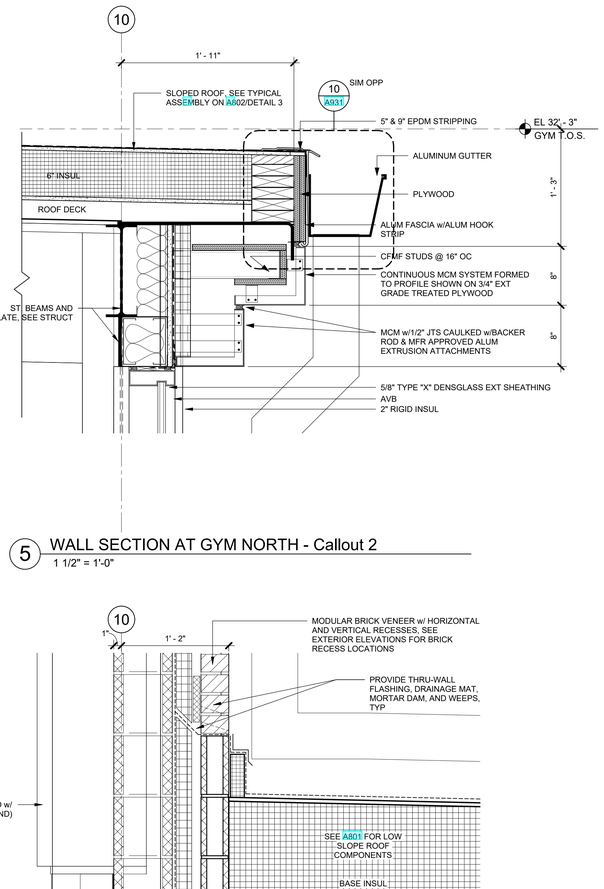
Job No.	Date
2020-1005	12/24/23
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

A921



8 Section 59 - Callout 1
1 1/2" = 1'-0"



5 WALL SECTION AT GYM NORTH - Callout 2
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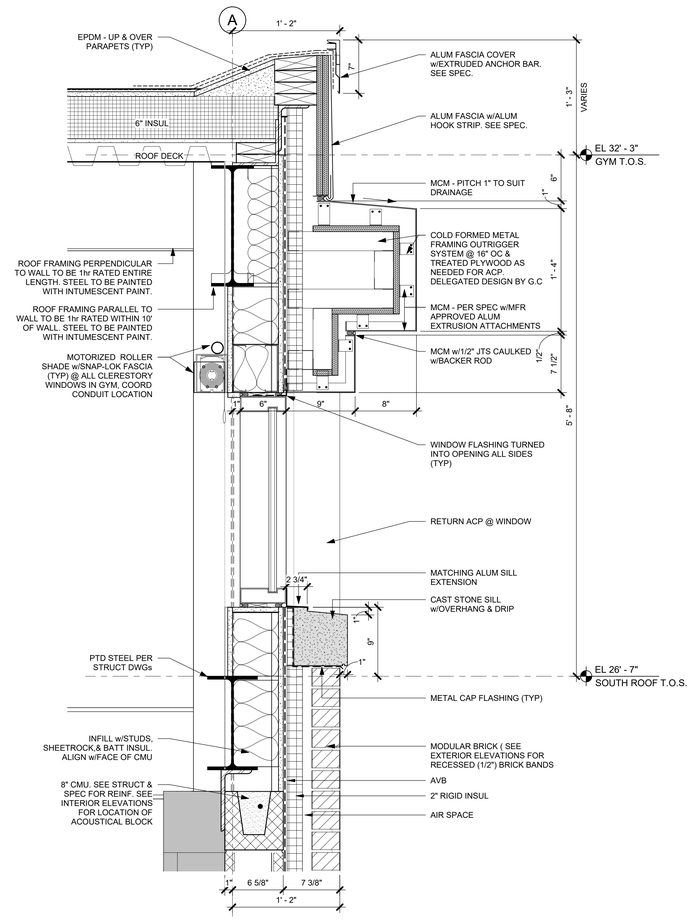

2 WALL SECTION AT GYM WEST - Callout 1
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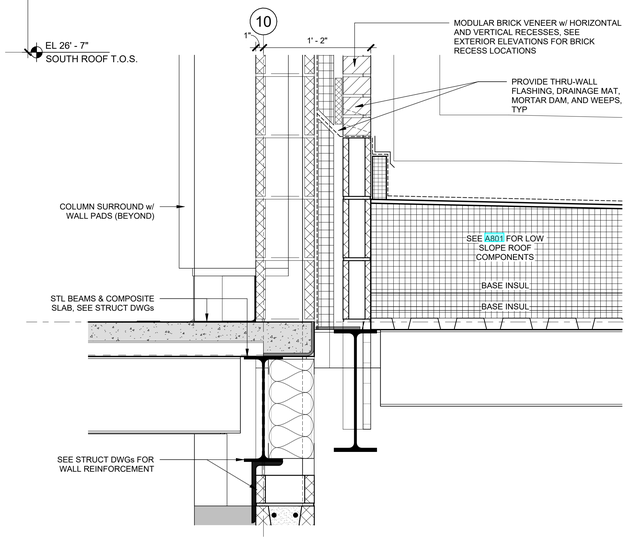

4 WALL SECTION AT GYM NORTH - Callout 1
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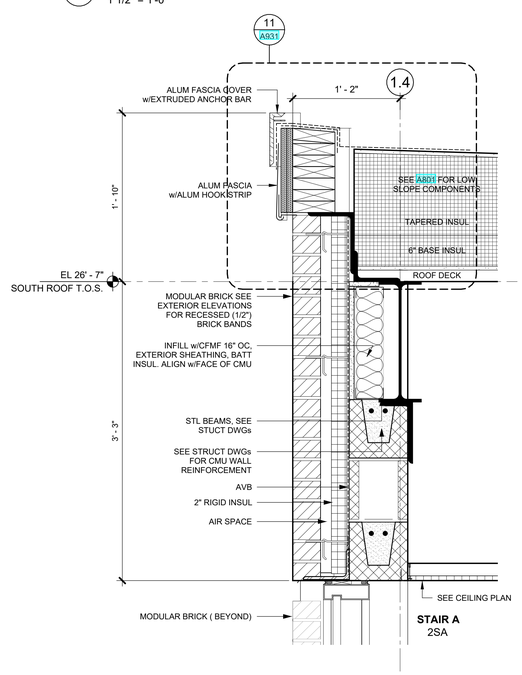
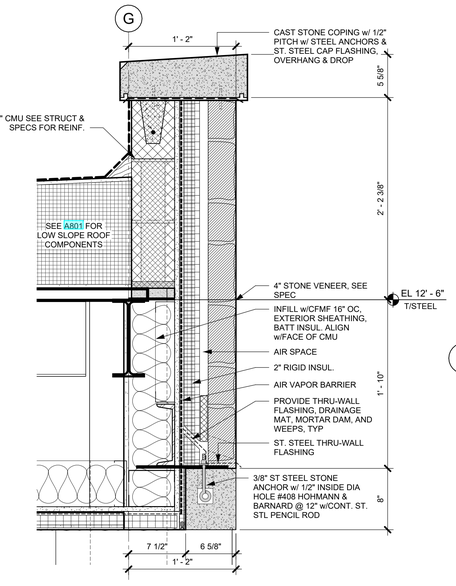


1 WALL SECTION AT STAIR A CURTAIN WALL - Callout 1
1 1/2" = 1'-0"



6 WALL SECTION AT NORTH ENTRANCE - Callout 1
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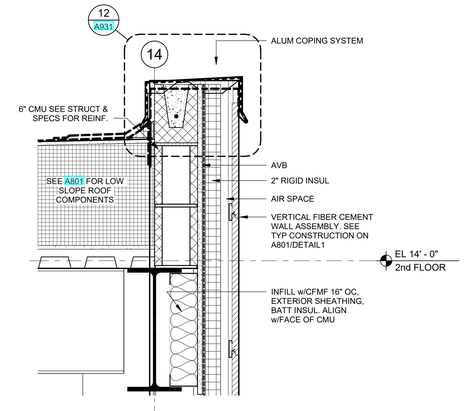

7 WALL SECTION AT FITNESS AREA - Callout 1
1 1/2" = 1'-0"

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

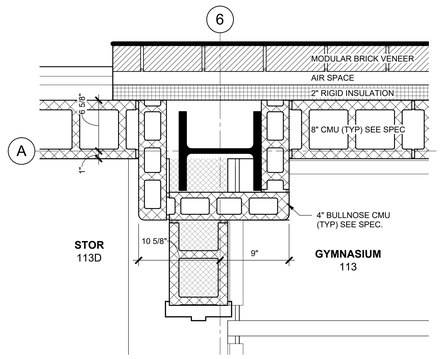
Sheet Title

EXTERIOR DETAILS

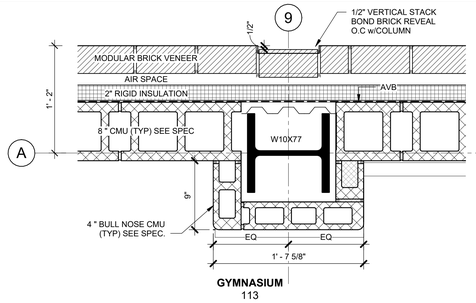
Job No. 2020-1005	Date 02/28/24
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

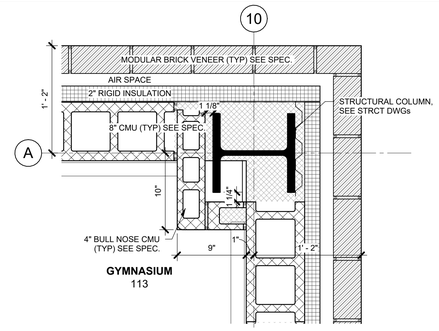
A922



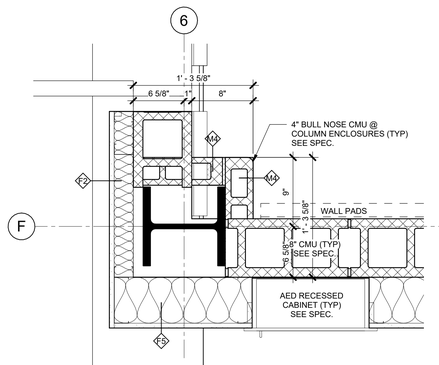
6 PLAN DETAIL @ WEST WALL OF GYM
1 1/2" = 1'-0"



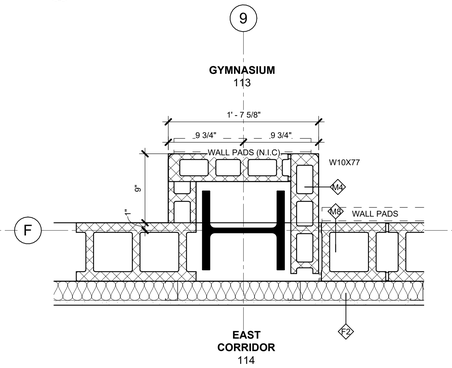
8 PLAN DETAIL @ NORTH/WEST CORNER OF GYM
1 1/2" = 1'-0"



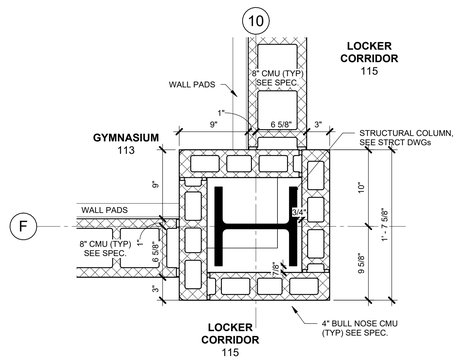
7 PLAN DETAIL @ NORTH/EAST CORNER OF GYM
1 1/2" = 1'-0"



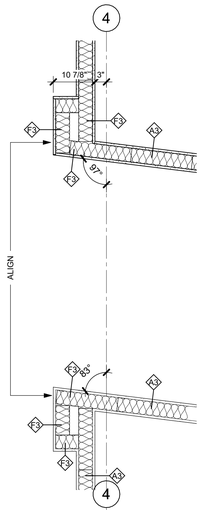
10 PLAN DETAIL @ SOUTH/EAST WALL OF GYM
1 1/2" = 1'-0"



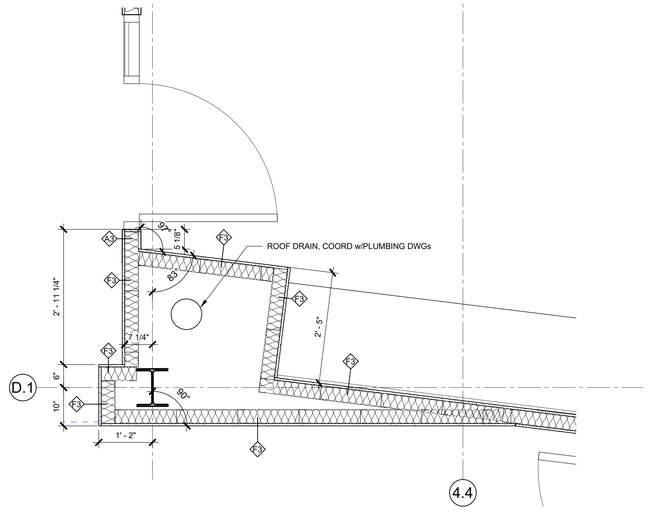
9 PLAN DETAIL @ EAST WALL OF GYM
1 1/2" = 1'-0"



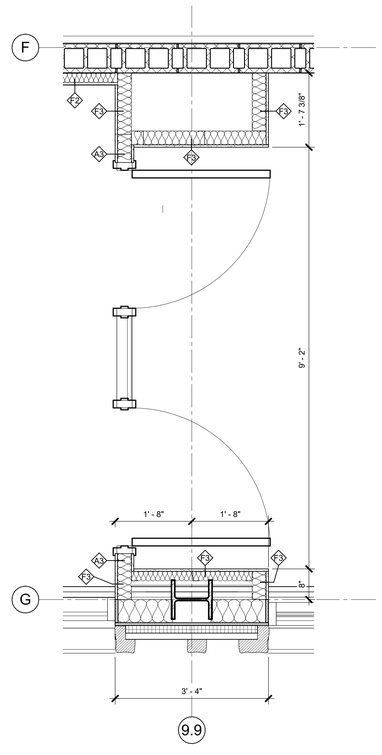
7 PLAN DETAIL @ NORTH/EAST CORNER OF GYM
1 1/2" = 1'-0"



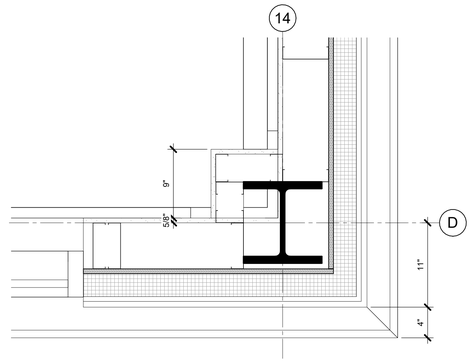
12 1st FL PLAN - Callout 6
3/4" = 1'-0"



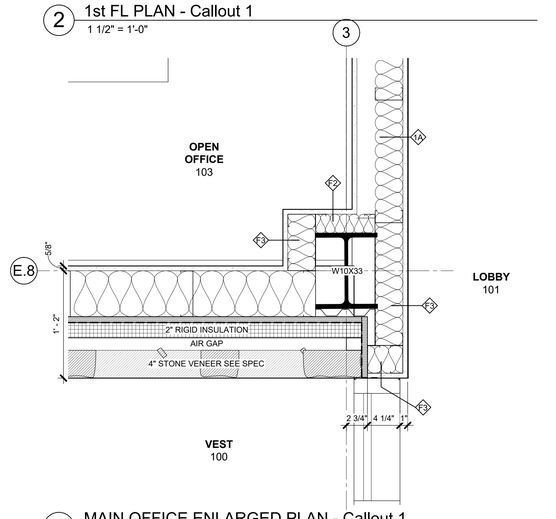
1 COMPUTER/GAMING ENLARGED PLAN1
3/4" = 1'-0"



3 1st FL PLAN - Callout 5
3/4" = 1'-0"



2 1st FL PLAN - Callout 1
1 1/2" = 1'-0"



4 MAIN OFFICE ENLARGED PLAN - Callout 1
1 1/2" = 1'-0"

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

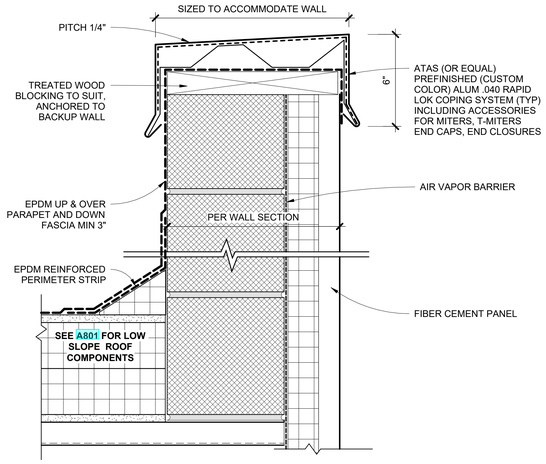
Sheet Title

1ST FLOOR PLAN DETAILS

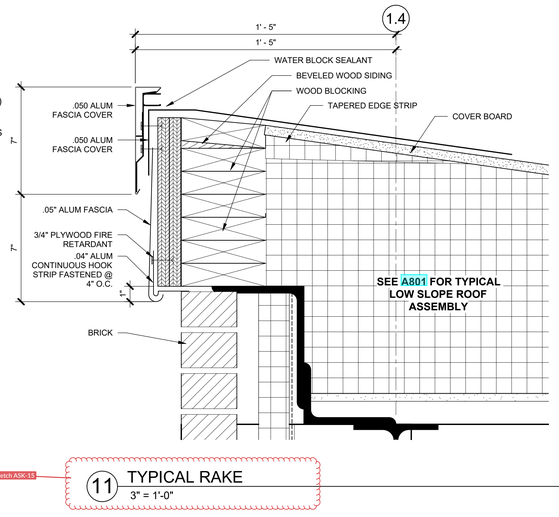
Job No.	Date
2020-1005	01/23/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

A930

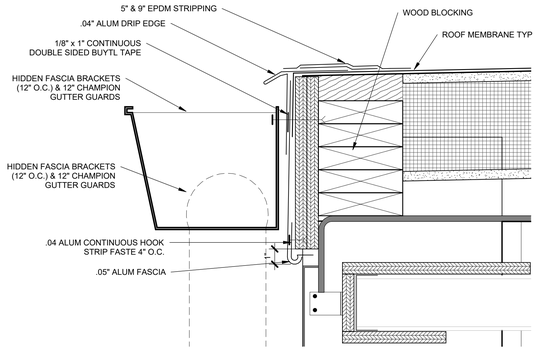


12 TYPICAL SNAP LOK COPING DETAIL
3" = 1'-0"



Sketch ASK-15

11 TYPICAL RAKE
3" = 1'-0"



10 TYPICAL GUTTER EAVE
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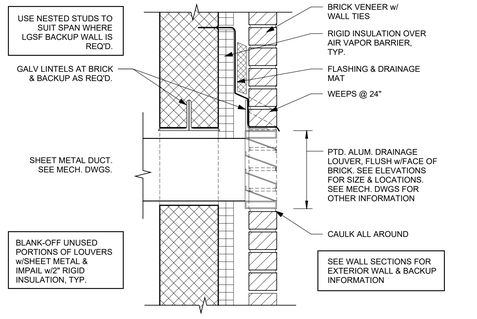
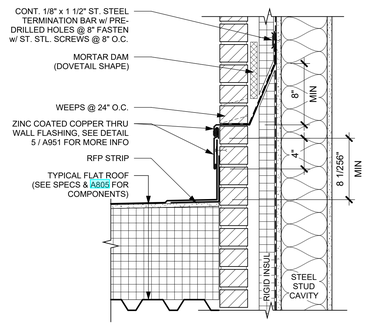
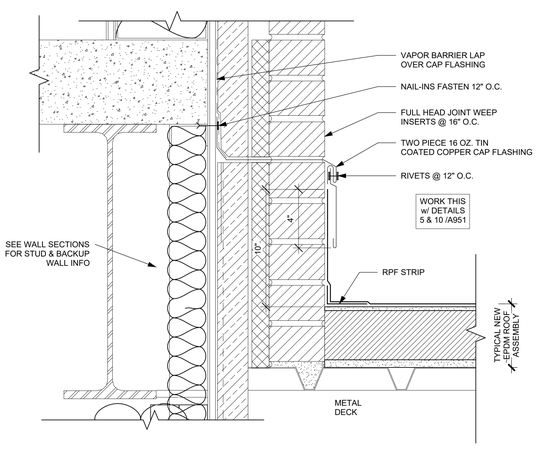


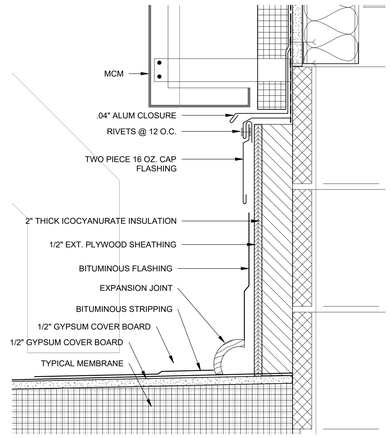
9 TYPICAL LOUVER DETAIL (U.N.O.)
1 1/2" = 1'-0"



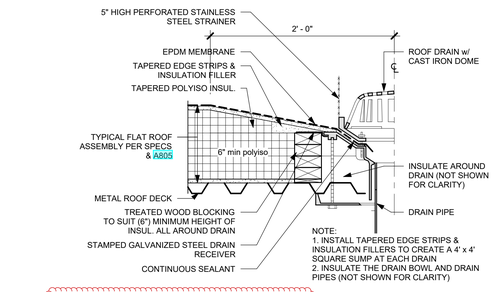
7 ROOF TO BRICK THRU-WALL FLASHING DETAIL - TYPICAL
1 1/2" = 1'-0"



6 THROUGH WALL FLASHING DETAIL - TYP
3" = 1'-0"

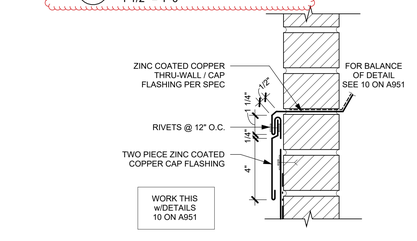


5 Section 59 - Callout 1 - Callout 1
3" = 1'-0"

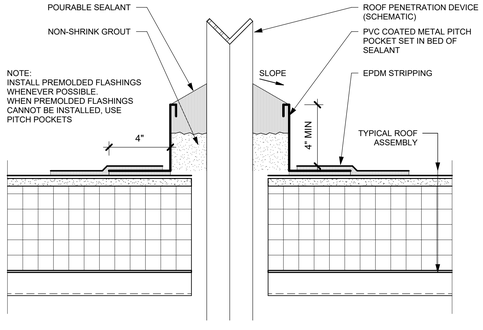


R21 07 2

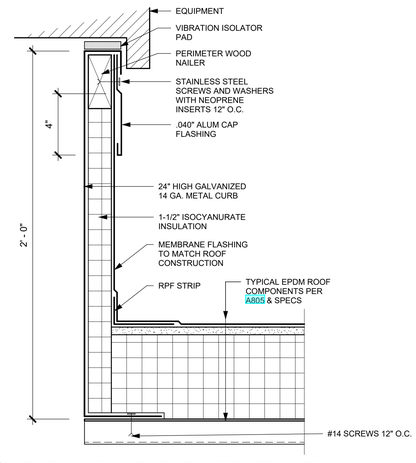
8 TYPICAL ROOF DRAIN
1 1/2" = 1'-0"



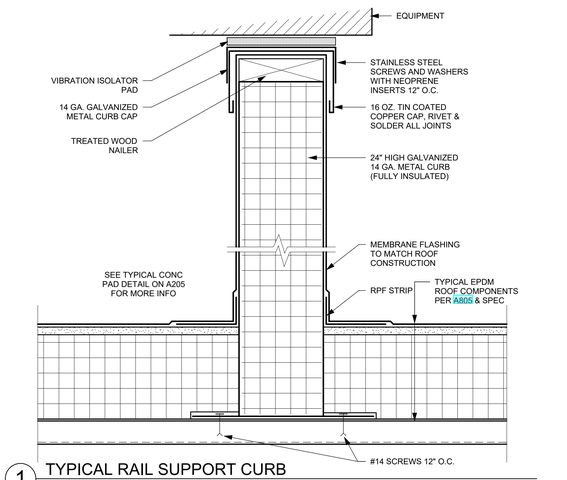
4 THRU-WALL FLASHING DETAIL - TYPICAL
3" = 1'-0"



3 TYPICAL PITCH POCKET
3" = 1'-0"



2 TYPICAL EQUIPMENT SUPPORT CURB
3" = 1'-0"



1 TYPICAL RAIL SUPPORT CURB
3" = 1'-0"

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7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

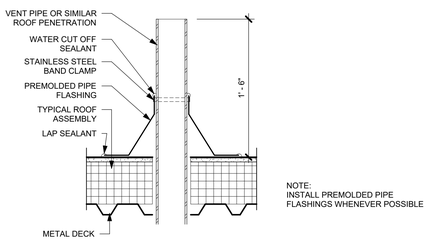
Sheet Title

TYPICAL ROOF SECTIONS & DETAILS

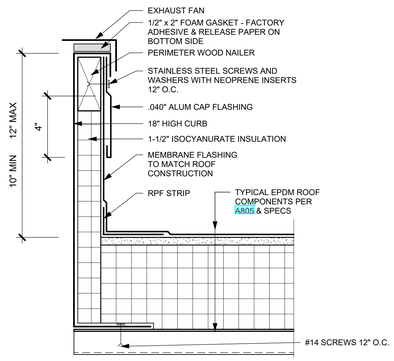
Job No.	Date
2020-1005	01/09/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

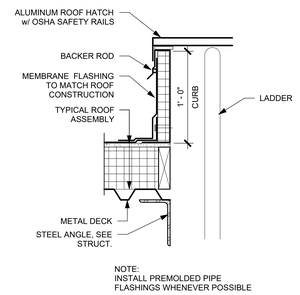
A931



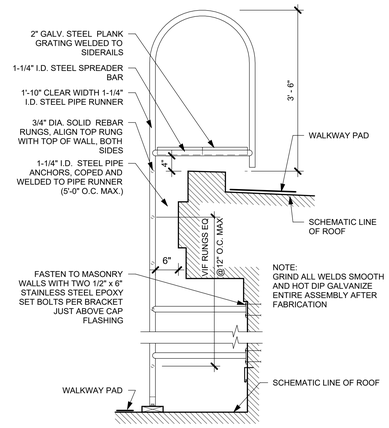
5 TYPICAL VENT PIPE
1 1/2" = 1'-0"



4 TYPICAL EXHAUST FAN SUPPORT CURB
3" = 1'-0"

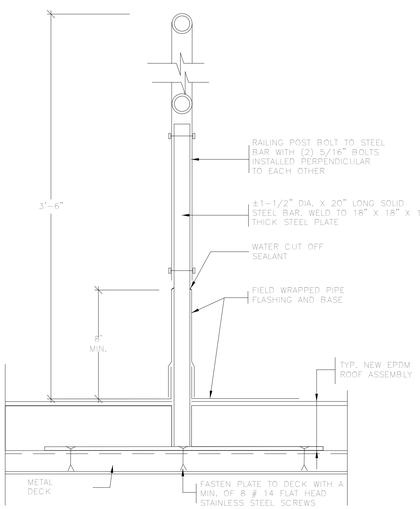


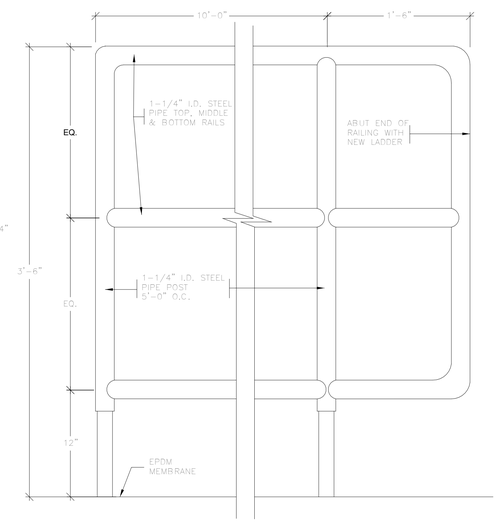
3 TYPICAL ROOF HATCH DETAIL
1 1/2" = 1'-0"



2 TYPICAL OVERHANG LADDER DETAIL
3/4" = 1'-0"

HRC PH2 BULLETIN 10 Remove Roof Anchors.pdf





1 TYPICAL DECK MOUNTED ROOF RAILING
3" = 1'-0"

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Sheet Title

TYPICAL ROOF SECTIONS & DETAILS

Job No.	Date
2020-1005	06/03/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

A932

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	NEW	NEW WORK
	—	ELBOW UP
	—	ELBOW DOWN
	—	TEE DOWN
	—	TEE UP
	—	PIPE CAP OR FLUSHING CONNECTION
	—	GATE VALVE
	—	OS&Y GATE VALVE
	—	BUTTERFLY VALVE
	—	CHECK VALVE
	—	UNION
	—	TEMPERATURE GAGE
	—	PRESSURE GAGE
WF	—	WATER FLOW SWITCH
TS	—	TAMPER SWITCH
	—	INSPECTORS TEST CONNECTION
	—	FLOW ARROW
	—	SPRINKLER GUARD
	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED.
	—	NEW UPRIGHT SPRINKLER
	—	SIDEWALL SPRINKLER
	—	POINT OF CONNECTION
	—	POINT OF DISCONNECTION
N1	—	HYDRAULIC REFERENCE NODE
S2	—	HYDRAULIC REFERENCE SPRINKLER
	FDC	FIRE DEPARTMENT CONNECTION
	FP	FIRE PUMP
	AAV	AUTOMATIC AIR VENT
	AFF	ABOVE FINISHED FLOOR
	AHC	ABOVE HUNG CEILING
	ATC	AT CEILING
	BFP	BACKFLOW PREVENTOR
	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
	DCV	DOUBLE CHECK VALVE BFP
	DN.	DOWN
	FCA	FLOOR CONTROL ASSEMBLY
	FD	FLOOR DRAIN
	FLFD	FUNNEL FLOOR DRAIN
	GPM	GALLONS PER MINUTE
	JP	JOCKEY PUMP
	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	(N0)	NORMALLY OPEN
	(NC)	NORMALLY CLOSED
	NTS	NOT TO SCALE
	PRV	PRESSURE REDUCING VALVE
	PSI	POUNDS PER SQUARE INCH
	RPZ	REDUCED PRESSURE ZONE BFP
	SF	SQUARE FOOT
	TS	TAMPER SWITCH
	TYP	TYPICAL
	U.O.N.	UNLESS OTHERWISE NOTED

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE NEW SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMESIS.
2. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR SHALL CONDUCT HYDRANT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS. HYDRANT FLOW TEST SHALL BE CONDUCTED ON TWO HYDRANTS ON THE SITE WATER MAIN SERVING THE BUILDING FLOWING A MINIMUM OF 500 GPM.
4. ALTER PIPING AS REQUIRED TO SUIT CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
5. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
6. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
7. INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
8. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
9. PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
10. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
11. ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2016) SECTION 11.3.
12. THE CONTRACTOR SHALL MAKE A PROVISION FOR (20) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.
13. ALL PIPING INCLUDING HANGER, SUPPORTS, ETC. WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICULAR CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMAL CLEARANCES

EQUIPMENT NOTES

1. TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
   - MODEL OSYSU-2 - FOR OS&Y VALVES.
   - MODEL PCVS-2 - FOR BUTTERFLY VALVES.
   - MODEL RBVS - FOR BALL VALVES.
2. SPRINKLER PIPING MATERIAL: SHALL BE STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS OR WELDED MILD STEEL, CONFORMING TO ASTM A-795/A-53. SCHEDULE 10 PIPING IS NOT PERMITTED FOR PIPING LESS THAN 2".
3. FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY OR APPROVED EQUAL. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT, AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT"-HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLE SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.
4. WATERFLOW ALARM SWITCH: SHALL BE BASED ON POTTER ELECTRIC SIGNAL CO. VSR SERIES. PROVIDE WATERFLOW ALARM SWITCHES WHERE INDICATED ON THE DRAWINGS.
5. FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON POTTER ROEMER TWO-WAY FLUSH INLET FIRE DEPT CONNECTION OR EQUAL AT BUILDING FACADE. COORDINATE STYLE AND LOCATION WITH ARCHITECT. SIAMESE SHALL BE PLACED BETWEEN 18 INCHES AND 36 INCHES ABOVE THE SIDEWALK. FIRE DEPARTMENT CONNECTION SHALL HAVE TWO (2) 3" INTERNALLY THREADED SWIVEL FITTINGS WITH THREADS CONFORMING TO LOCAL FIRE DEPT STANDARDS WITH 4" OUTLET. PROVIDE AUTOMATIC BALL DRIP AT FDC FACE PLATE AND APPLICABLE SIGNAGE.
6. ELECTRIC ALARM BELL: SHALL BE SIMILAR TO POTTER ELECTRIC SIGNAL COMPANY, VIBRATING TYPE BELL, MODEL PBA-2410, 24VAC, 10-INCH DIAMETER, STEEL COVER WITH RED POWDER COAT FINISH, UL LISTED/FM APPROVED, SUITABLE FOR OUTDOOR USE, ALL PARTS TO HAVE CORROSION RESISTANT FINISHES. PROVIDE WEATHERPROOF BACKBOX. BELL SHALL MAINTAIN 15dB ABOVE AVERAGE AMBIENT SOUND. WIRING SHALL BE 24V FROM FIRE ALARM CONTROL PANEL.
7. AIR VENT: SHALL BE BASED ON POTTER AUTOMATIC AIR VENT MODEL AAV POTTER AIR VENT A. FURNISH AND INSTALL BALL VALVE AND STRAINER. AIR VENT SHALL BE LOCATED AT THE HIGHEST POINT OR TOP OF THE RISER.
8. DRY PIPE VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC CO. FIRELOCK NXT DRY PIPE VALVE COMPLETE WITH INDIVIDUAL 3/4HP COMPRESSOR SERIES 7C7 OR APPROVED EQUAL, QUICK OPENING DEVICE SERIES 746-LPA DRY ACCELERATOR, ALARM PRESSURE SWITCH, AIR SUPERVISORY PRESSURE SWITCH, AIR SUPPLY SYSTEM AND SERIES 75D WATER COLUMN KIT. ALARM AND SUPERVISORY SIGNALS SHALL BE CONNECTED AND PROGRAMMED INTO BUILDING FIRE ALARM SYSTEM. REFER TO DETAILS. SIZE SHALL BE AS INDICATED ON FLOOR PLANS. COMPRESSOR ELECTRICAL: 208 / 1 / 60, CURRENT DRAW: 7.5 AMPS
9. SPRINKLERS: REFER TO DRAWING FP-701 FOR SPRINKLER HEAD SCHEDULE.
10. FIRE HOSE VALVE (NON-PRESSURE REGULATED): SHALL BE BASED ON CROKER MODEL 5015/5025 OR APPROVED EQUAL, 2-1/2" UL LISTED/FM APPROVED, 300 LB RATED ANGLE HOSE VALVE. HOSE THREADS TO BE COORDINATED WITH LOCAL AUTHORITY HAVING JURISDICTION.
11. FIRE HOSE VALVE CABINET: SHALL BE BASED ON POTTER ROEMER FRC8022 SERIES FOR USE WITH 2-1/2" FIRE DEPARTMENT VALVE WITH FULL TEMPERED SAFTEY GLASS AND RED LETTERING. REFER TO FLOOR PLANS FOR LOCATIONS.

WATER SUPPLY DATA

DATE:	July 1, 2022
TIME:	-
PERFORMED BY:	WJWW
STATIC PRESSURE AT RESIDUAL FIRE HYDRANT #3013:	68 psi
RESIDUAL PRESSURE AT RESIDUAL FIRE HYDRANT #3013:	62 psi
MEASURED FLOW AT FLOW FIRE HYDRANT #3021:	805 gpm

NOTES:
1. FLOW HYDRANT CONNECTED TO EXISTING 6" WATERMAIN IN CALVERT STREET.

DESIGN CRITERIA

HAZARD CLASSIFICATION(1)	DENSITY(2)	PROTECTION AREA PER SPRINKLER(3)
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
ORDINARY HAZARD GROUP 2	0.2 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
EXTRA HAZARD GROUP 1	0.3 GPM / 2500 SQ. FT.	100 SQ. FT. MAX
EXTRA HAZARD GROUP 2	0.4 GPM / 2500 SQ. FT.	100 SQ. FT. MAX

NOTES:
1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2016.
5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1 (2016).
6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE WATER MAIN IN THE MUNICIPAL STREET.
FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

STANDPIPE DESIGN CRITERIA

CLASSIFICATION:	CLASS I
SYSTEM TYPE:	MANUAL WET
REQUIRED STANDPIPE FLOW DEMAND:	750 GPM
NEAREST FIRE HYDRANT <100 FT:	CALVERT STREET
REQUIRED DEMAND AT FDC:	750 GPM @ 150 PSI

NOTES:
1. THE FDC FOR FIRE DEPARTMENT ACCESS SHALL BE WITHIN 100 FEET OF HYDRANT LOCATED ON CALVERT ST.
2. MANUAL WET CLASS 1 STANDPIPE SYSTEM SHALL BE PERMITTED IN BUILDINGS NOT CLASSIFIED AS HIGH-RISE BUILDINGS IN ACCORDANCE WITH NFPA 14: §3.3.15.5, §5.4.1.1.
3. MANUAL WET STANDPIPE SHALL BE SUBJECT TO FINAL APPROVAL BY THE LOCAL FIRE DEPARTMENT & AHJ.

1 FIRE PROTECTION RISER DIAGRAM
SCALE: NONE

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
FIRE PROTECTION SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked HM / RG

RFI 022
RFI 023

Sheet Number
FP-001

FIRE PROTECTION PARKING LEVEL PLAN

NORTH

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

NOTES:
1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR. TYPICAL.

HYDRAULIC CALCULATION DATA	
LOCATION:	PARKING GARAGE
SYSTEM:	DRY
HAZARD CLASSIFICATION:	ORDINARY GROUP 2
DENSITY:	0.2 GPM / SQ FT
AREA OF APPLICATION:	1950 SQ. FT.
NO. OF SPRINKLERS CALCULATED:	26
COVERAGE PER SPRINKLER:	130 SQ. FT. MAX.
K-FACTOR:	5.6
ORFICE SIZE (IN):	1/2
SPRINKLER DEMAND REQUIREMENTS:	419 GPM AT 34 PSI
HOSE DEMAND:	250 GPM
TOTAL SYSTEM REQUIREMENTS:	669 GPM AT 34 PSI
AVAILABLE SUPPLY:	669 GPM AT 63 PSI

NOTES: AREA OF APPLICATION INCREASED 30% FOR DRY SYSTEMS IN ACCORDANCE WITH NFPA 13 SECTION 11.2.3.2.5.

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Key Plan

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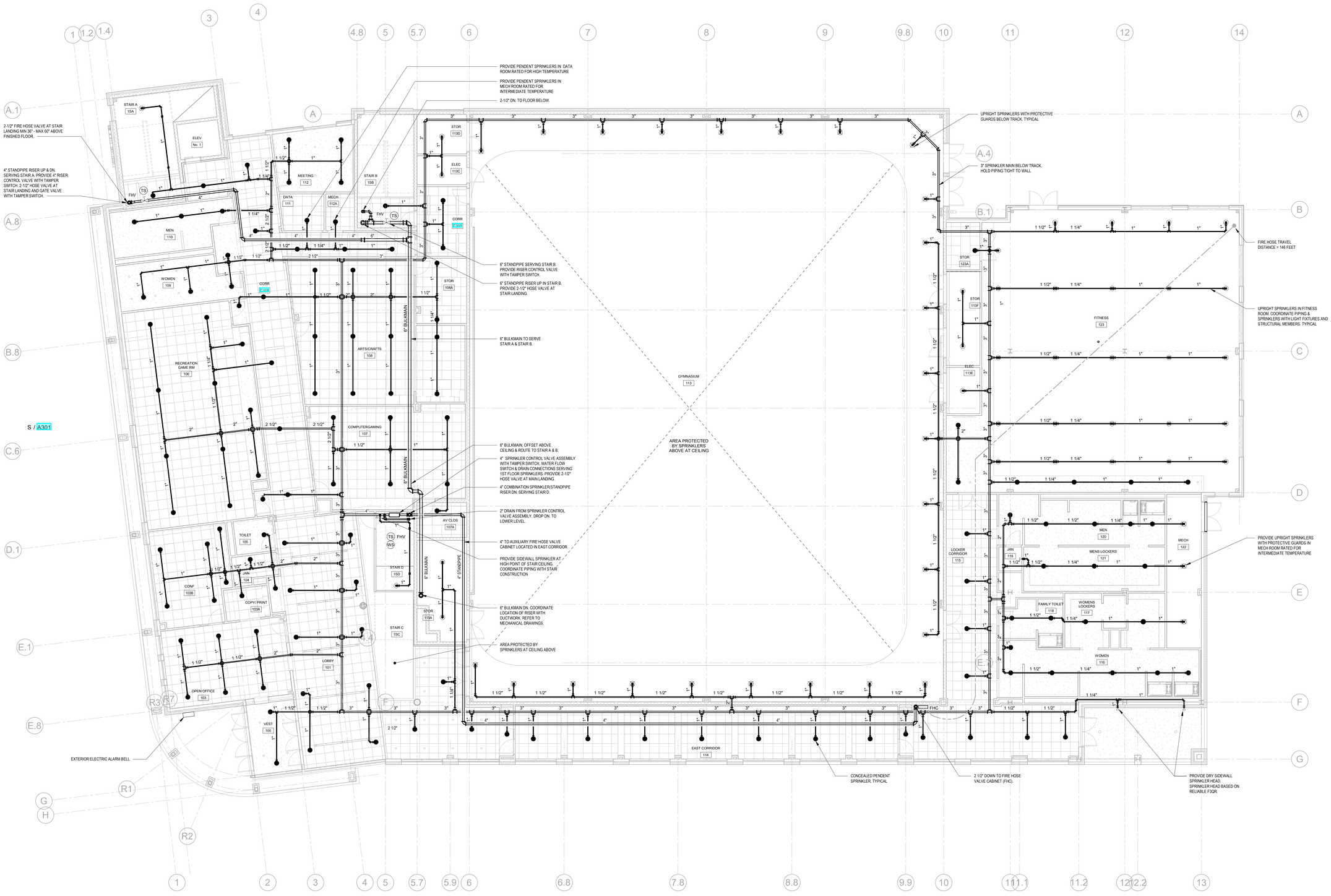
Sheet Title

FIRE PROTECTION PARKING PLAN

Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: AM / CD

Sheet Number

FP-201



FIRE PROTECTION 1ST FLOOR PLAN

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

NORTH

NOTES:
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No.	Date	Issue
7	10/09/2024	CONFORMED SET
5	07/01/2024	BID ADDENDUM #2
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/11/2020	50% DESIGN DEVELOPMENT

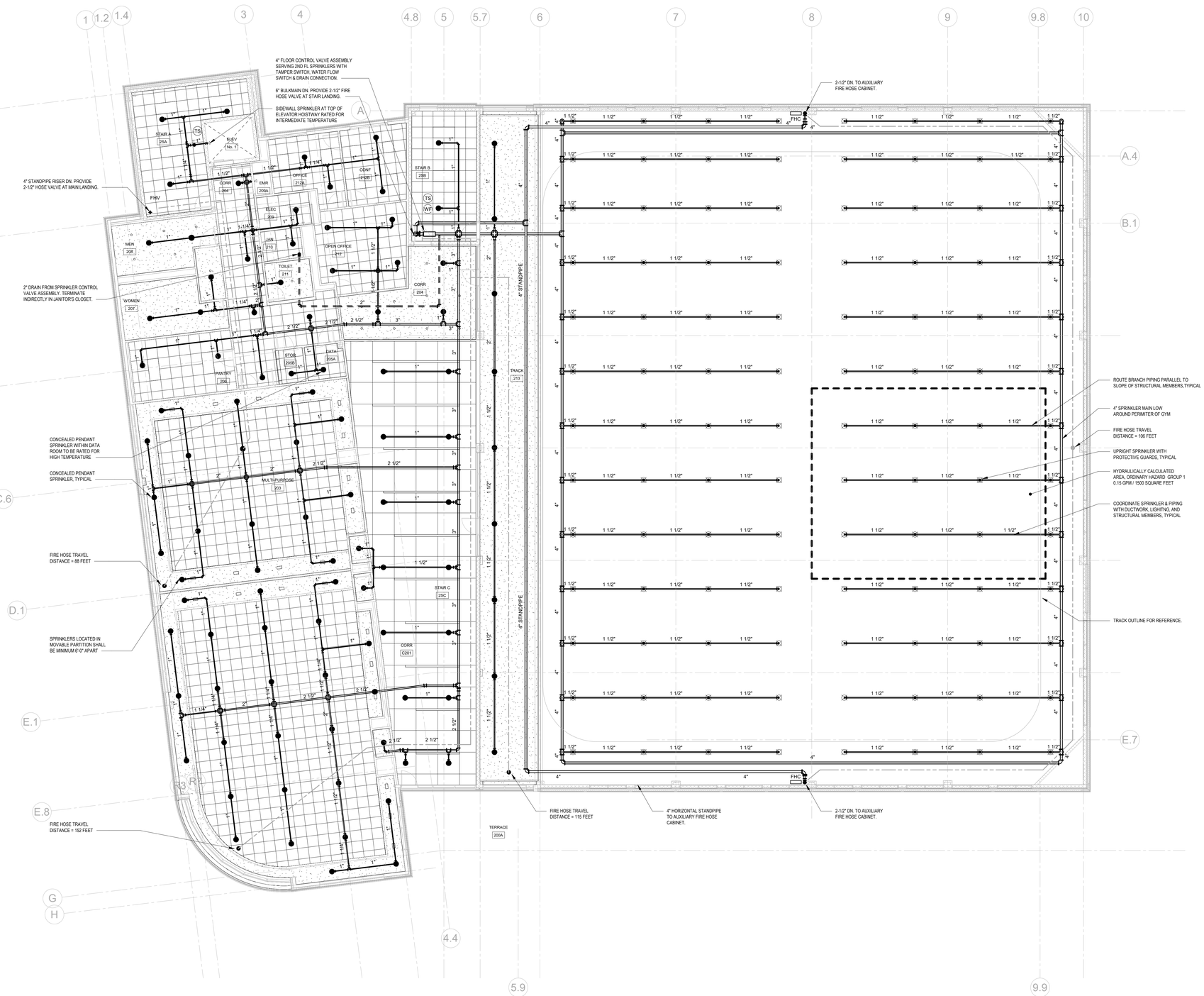
Sheet Title

FIRE PROTECTION 1ST FLOOR PLAN

Job No.	Date
NKGD0207.00	01/24/2024
Scale: AS NOTED	Drawn / Checked: AM / CD

Sheet Number

FP-202



HYDRAULIC CALCULATION DATA	
LOCATION:	SECOND FLOOR
SYSTEM:	MANUAL WET STANDPIPE
DEMAND REQUIREMENTS:	750 GPM AT 135 PSI
AVAILABLE RESIDUAL PRESSURE AT 750 GPM:	62 PSI
REQUIRED PRESSURE BOOST AT FDC:	750 GPM AT 75 PSI

HYDRAULIC CALCULATION DATA	
LOCATION:	2ND FL GYMNASIUM
SYSTEM:	WET
HAZARD CLASSIFICATION:	ORDINARY HAZARD 1
DENSITY:	0.15 GPM / SQ FT
AREA OF APPLICATION:	1500 SF
NO. OF SPRINKLERS CALCULATED:	12
COVERAGE PER SPRINKLER:	130 SQ. FT. MAX.
K-FACTOR:	5.6
ORFICE SIZE (IN):	1/2
SPRINKLER DEMAND REQUIREMENTS:	240 GPM AT 53 PSI
HOSE ALLOWANCE:	250 GPM
TOTAL SPRINKLER:	490 GPM AT 53 PSI
TOTAL SPRINKLER & HOSE DEMAND:	490 GPM AT 66 PSI
AVAILABLE SUPPLY:	490 GPM AT 66 PSI

NORTH

1 FIRE PROTECTION 2ND FLOOR PLAN

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

NOTES:
1. TAMPER SWITCHES SHALL BE BY SPRINKLER CONTRACTOR. TYPICAL.

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Key Plan

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

FIRE PROTECTION 2ND FLOOR PLAN

Job No.	Date
NKGD0207.00	03/1/2024
Scale	Drawn / Checked
AS NOTED	AM / CD

Sheet Number

FP-203

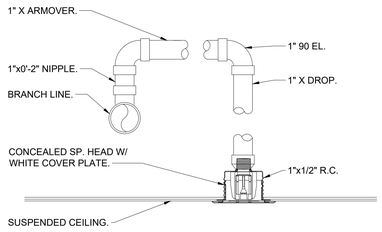
SPRINKLER HEAD SCHEDULE

SYM.	TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP.	MAX CEILING TEMP.	ORIFICE	K-FACTOR	MEA#
⊗	CONCEALED	FINISHED AREAS PER PLANS	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G5-56	165°F	100°F	½"	5.6	258-93-E
⊗	CONCEALED	DATA 111 / DATA 205A	COVER PLATE COLOR PER ARCHITECT	RELIABLE	F1-FR	286°F	225°F	½"	5.6	258-93-E
⊗	CONCEALED	MECH 112A	COVER PLATE COLOR PER ARCHITECT	RELIABLE	G5-56	212°F	150°F	½"	5.6	258-93-E
○	UPRIGHT	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	½"	5.6	258-93-E
○	UPRIGHT DRY	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	½"	5.6	258-93-E
○	UPRIGHT DRY	MECH B06 / PARKING B01 / MECH 122	CHROME PLATED	RELIABLE	F1-FR	200°	165°F	½"	5.6	258-93-E
◄	DRY SIDEWALL	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F3QR	165°F	100°F	½"	5.6	258-93-E
◄	DRY SIDEWALL	ELEV NO. 1 HOISTWAY	CHROME PLATED	RELIABLE	F3QR	200°	165°F	½"	5.6	258-93-E
◄	SIDEWALL	EXPOSED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1-FR	165°F	100°F	½"	5.6	258-93-E
◄	SIDEWALL	ELEV NO.1 PIT	CHROME PLATED	RELIABLE	F1-FR	200°	165°F	½"	5.6	258-93-E

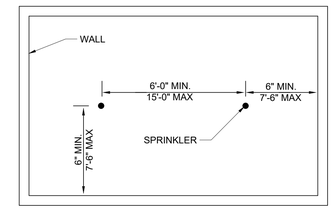
NOTES:

1. SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
2. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF AND HEADS IN TRASH CHUTE.
3. ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
   3.1. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, HOT WATER PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
   3.2. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

11 SPRINKLER HEAD SCHEDULE
SCALE: NONE

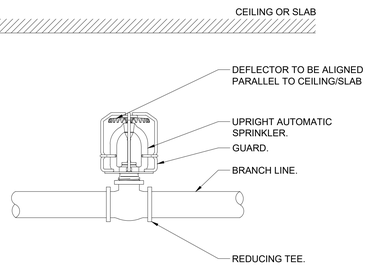


6 TYPICAL CONCEALED PENDENT SPRINKLER
SCALE: NONE

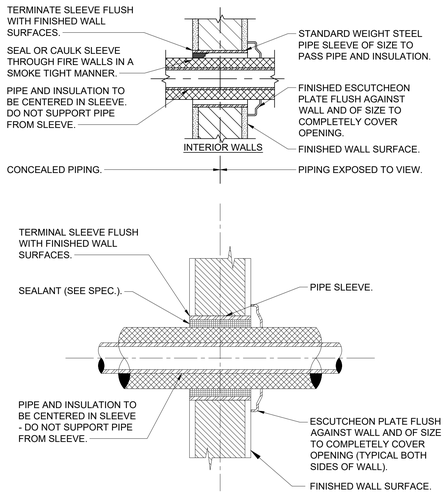


	MAX AREA PER HEAD	DENSITY PER 1500 SQ. FT
LIGHT HAZARD	225 SQ. FT.	0.10 GPM/SQ. FT.
ORDINARY HAZARD	130 SQ. FT.	0.16 GPM/SQ. FT.

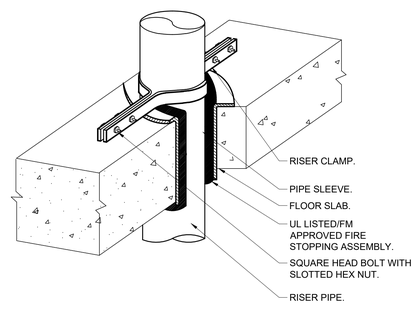
3 SPRINKLER HEAD SPACING CRITERIA
SCALE: NONE



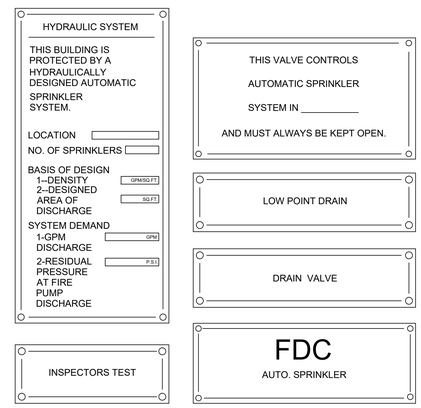
10 TYPICAL UPRIGHT SPRINKLER WITH GUARD
SCALE: NONE



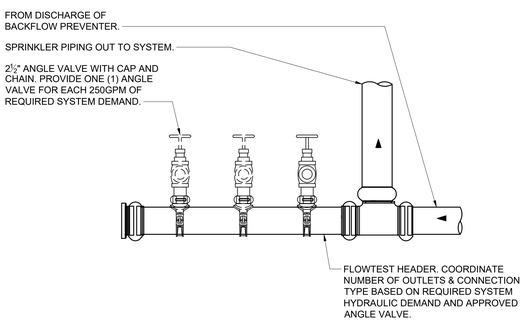
8 PIPE WALL SLEEVE DETAIL
SCALE: NONE



5 PIPE PENETRATION DETAIL
SCALE: NONE

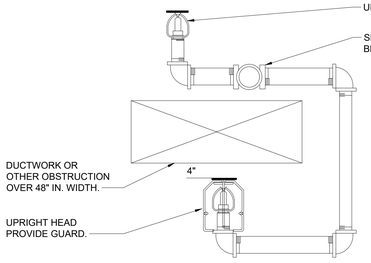


2 TYPICAL SIGNS
SCALE: NONE



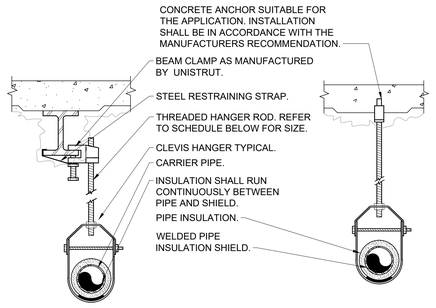
NOTES:
1) NOT REQUIRED WHERE FULL FORWARD FLOW TEST MAY BE ACCOMPLISHED THROUGH STANDPIPE SYSTEM.
2) FLOW TEST HEADER SHALL BE 4" MINIMUM SIZE FOR UP TO TWO (2) ANGLE VALVES. MINIMUM 6" FOR THREE (3) - FOUR (4) VALVES.
3) ANGLE VALVES SHALL BE LISTED FOR FIRE PROTECTION USE AND MAY BE GROOVED OR THREADED INLET.
4) TEST HEADER SHALL BE SUPPORTED AND BRACED.

9 BACKFLOW PREVENTER SPRINKLER SYSTEM FORWARD FLOW TEST ASSEMBLY
SCALE: NONE



NOTES:
1. SPRINKLER CONTRACTOR SHALL SPRINKLER ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.
2. SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE HVAC AND GENERAL CONTRACTOR.

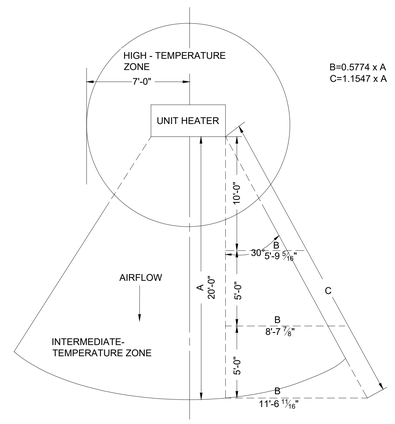
7 SPRINKLER DETAIL ABOVE AND BELOW DUCT DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE						
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

4 PIPE HANGER DETAIL
SCALE: NONE



1 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
SCALE: NONE

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

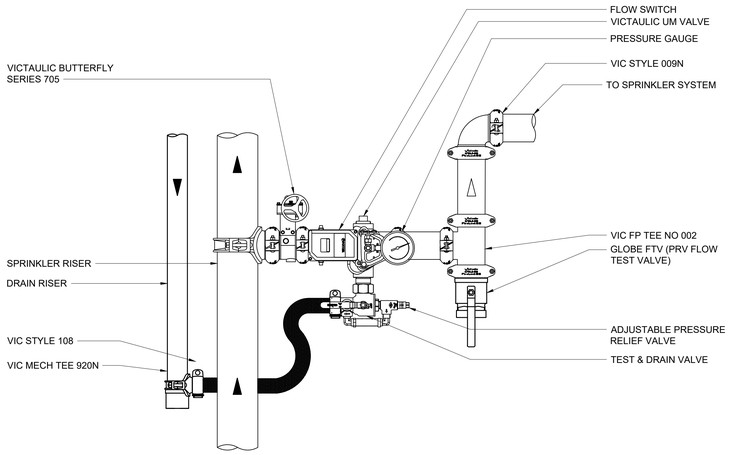
Sheet Title

FIRE PROTECTION DETAILS 1 OF 3

Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

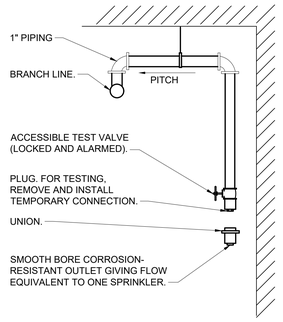
Sheet Number

FP-701



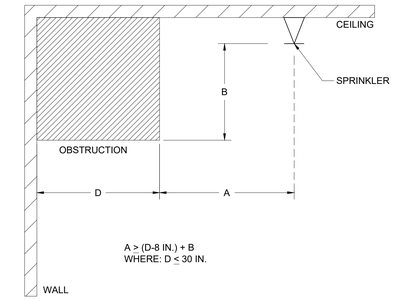
NOTES:
1. DETAIL BASED ON VICTAULIC SERIES UMC UNIVERSAL MANIFOLD CHECK ASSEMBLY.
2. FIRE LOCK ZONE CONTROL RISER MODULE WITH PRESSURE REDUCING VALVE SUITABLE FOR HORIZONTAL OR VERTICAL UPFLOW ORIENTATION
3. WHERE UNIVERSAL MANIFOLD CHECK VALVES ARE SPECIFIED FOR USE IN WET-PIPE SPRINKLER SYSTEMS, AS FLOOR CONTROL MANIFOLDS THEY SHALL BE SPECIFICALLY LISTED FOR SUCH USE. UNIVERSAL MANIFOLD CHECK VALVES SHALL BE DUCTILE IRON CONSTRUCTION, INCORPORATING A CONTROL VALVE, CHECK VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE, AND SYSTEM GAUGES IN ONE COMPACT BODY/FOOTPRINT, AND SHALL BE MANUFACTURED FOR "RIGHT" AND "LEFT"-HAND ORIENTATIONS. THE TEST & DRAIN ASSEMBLE SHALL CONTAIN AN ADJUSTABLE RELIEF VALVE, WITH A RANGE OF 175 TO 310 PSI.

7 SPRINKLER ZONE CONTROL RISER MODULE
SCALE: NONE

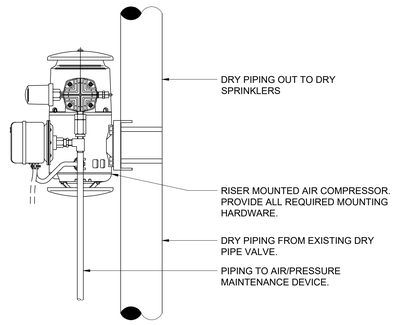


NOTE:
PROVIDE A NIPPLE-UP OFF OF BRANCH LINE TO MINIMIZE CONDENSATION IN TEST DROP.

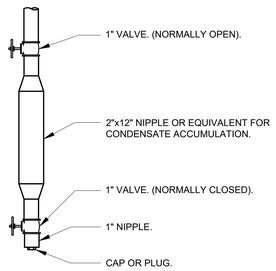
4 DRY SYSTEM INSPECTOR'S TEST
SCALE: NONE



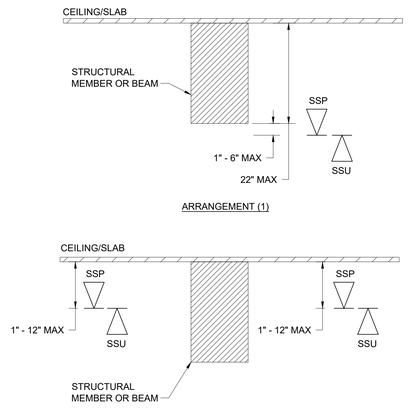
2 OBSTRUCTION AGAINST WALL
STANDARD SPRAY UPRIGHT/PENDENT (SSU/SSP)
SCALE: NONE



6 DRY SYSTEM RISER MOUNTED AIR COMPRESSOR
SCALE: NONE

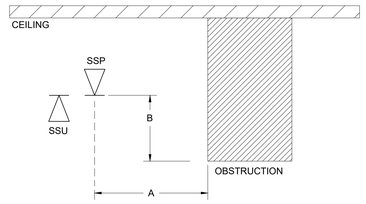


5 DRY SYSTEM LOW POINT DRAIN
SCALE: NONE



NOTE: SPRINKLERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR SECTION 8.6.4.1.2 - OBSTRUCTED CONSTRUCTION: UNDER OBSTRUCTED CONSTRUCTION, THE SPRINKLER DEFLECTOR SHALL BE LOCATED IN ACCORDANCE WITH ONE OF THE FOLLOWING ARRANGEMENTS:
1. INSTALLED WITH THE DEFLECTORS WITHIN THE HORIZONTAL PLANES OF 1 IN. TO 6 IN. BELOW THE STRUCTURAL MEMBERS AND A MAXIMUM DISTANCE OF 22 IN. BELOW THE CEILING/ROOF DECK
2. INSTALLED WITH THE DEFLECTORS AT OR ABOVE THE BOTTOM OF THE STRUCTURAL MEMBER TO A MAXIMUM OF 22 IN. BELOW THE CEILING/ROOF DECK WHERE THE SPRINKLER IS INSTALLED IN CONFORMANCE WITH 8.6.5.1.2. REFER TO DETAIL #2.
3. INSTALLED IN EACH BAY OF OBSTRUCTED CONSTRUCTION, WITH THE DEFLECTORS LOCATED A MINIMUM OF 1 IN. AND A MAXIMUM OF 12 IN. BELOW THE CEILING

3 OBSTRUCTED CONSTRUCTION DEATIL
SCALE: NONE



POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (SSU/SSP)

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A) (IN.)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (B) (IN.)
LESS THAN 1 FT	0"
1 FT TO LESS THAN 1 FT 6 IN	2½"
1 FT 6 IN. TO LESS THAN 2 FT	3½"
2 FT TO LESS THAN 2 FT 6 IN	5½"
2 FT 6 IN. TO LESS THAN 3 FT	7½"
3 FT TO LESS THAN 3 FT 6 IN	9½"
3 FT 6 IN. TO LESS THAN 4 FT	12"
4 FT TO LESS THAN 4 FT 6 IN	14"
4 FT 6 IN. TO LESS THAN 5 FT	16½"
5 FT TO LESS THAN 5 FT 6 IN	18"
5 FT 6 IN. TO LESS THAN 6 FT	20"
6 FT TO LESS THAN 6 FT 6 IN	24"
6 FT 6 IN. TO LESS THAN 7 FT	30"
7 FT TO LESS THAN 7 FT 6 IN	35"
NOTE: REFER TO NFPA 13 (2013) TABLE 8.6.5.1.2.	

1 OBSTRUCTION TO DISCHARGE (SSU/SSP)
SCALE: NONE

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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

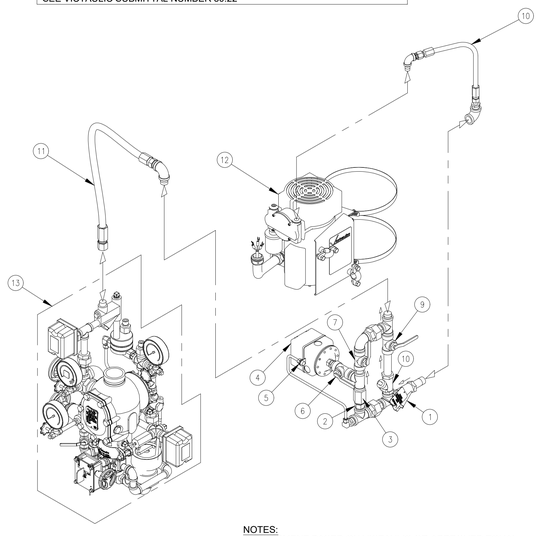
FIRE PROTECTION DETAILS 2 OF 3

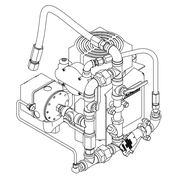
Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

Sheet Number

FP-702

PRODUCT LEGEND	
1	STRAINER (½-INCH NPT)
2	SPRING-LOADED, SOFT-SEATED CHECK VALVE
3	RESTRICTOR (½-INCH NPT)(1/8 RESTRICTOR)
4	PRESSURE SWITCH
5	UNLOADER VALVE
6	PRESSURE SWITCH ISOLATION BALL VALVE (NORMALLY OPEN-LOCKABLE)
7	SLOW-FILL BALL VALVE (NORMALLY OPEN)
8	SWING CHECK (½-INCH NPT)
9	FAST FILL BALL VALVE (NORMALLY CLOSED)
10	STAINLESS STEEL BRAIDED FLEX HOSE (¼-INCH NPT MALE X FEMALE)
11	STAINLESS STEEL BRAIDED FLEX HOSE (½-INCH NPT MALE X FEMALE)
12	AIR COMPRESSOR
13	FIRELOCK NXT DEVICE
SEE VICTAULIC SUBMITTAL NUMBER 30.22	



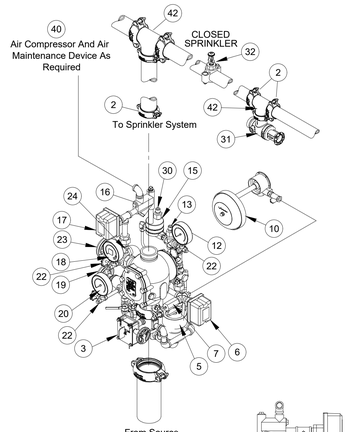


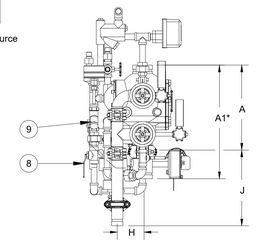
SERIES 7C7 AIR MAINTENANCE COMPRESSOR ASSEMBLY

NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

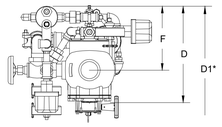
2 DRY SYSTEM - AIR MAINTENANCE ASSEMBLY SERIES 7C7

SCALE: NONE

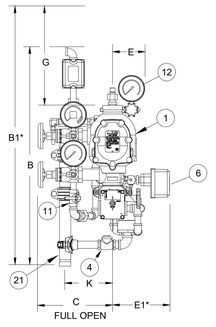




SIDE VIEW



PLAN VIEW



FULL OPEN

FRONT VIEW

NOTES:
1. EQUIPMENT BASED ON VICTAULIC OR APPROVED EQUAL.
2. * OPTIONAL EQUIPMENT.

1 DRY VALVE ASSEMBLY - VICTAULIC FIRELOCK NXT

SCALE: NONE

PRODUCT LEGEND	
1	Series 768 Firelock NXT Dry Valve (see Submittal 30.80) With Optional Vic Quick Riser
2	FireLock Rigid Couplings 005, 009, 009V
3	Series 705 Butterfly Valve (Optional)
4	Drain Swing Check Valve
5	Drip Cup
6	System Sensor EPS10-2 Alarm Pressure Switch
7	Series 729 Drip Check Valve
8	Diaphragm-Charge-Line Ball Valve (Normally Open)
9	3-in-1 Strainer/Check/Restrictor Assembly
10	Series 760 Water Motor Alarm (Optional)
11	Alarm Test Ball Valve
12	Diaphragm-Charge-Line Pressure Gauge (0-300psi/0-2068kPa)
13	Series 749 Auto Drain
14	Series 746-LPA Dry Accelerator Assembly (Optional)(Not Shown)
15	Series 776 Low-Pressure Actuator
16	Air Manifold
17	EPS-45-2V Supervisory Switch (Optional)
18	System Pressure Gauge (0-80 psi/0-552kPa with Retard)
19	Water Supply Main Drain Valve - Flow Test
20	Water Supply Pressure Gauge (0-300psi/0-2068kPa)
21	Drain Connection Kit (Optional)
22	Gauge Valve
23	System Main Drain Valve
24	Series 748 Ball Check Valve
25	n/a
26	Air Feed Valve Assembly (Not Shown)
27	System Air Line Strainer (Not Shown)
28	n/a
29	n/a
30	Auto Vent for 776 Low Pressure Actuator
31	Series 720 Testmaster
32	Upright Sprinkler - Victaulic Model V2703/V2704
33	n/a
34	n/a
35	n/a
36	n/a
37	n/a
38	n/a
39	n/a
40	Air Maintenance Device Victaulic 757/757P with pressure switch
41	(Optional Series 75D Water Column Drain Kit) not shown
42	Firelock Tee 002
SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS OF APPROVALS UL/FM APPROVED NYC MEA-248-98-E Volume 3	

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1	03/31/2020	50% DESIGN DEVELOPMENT

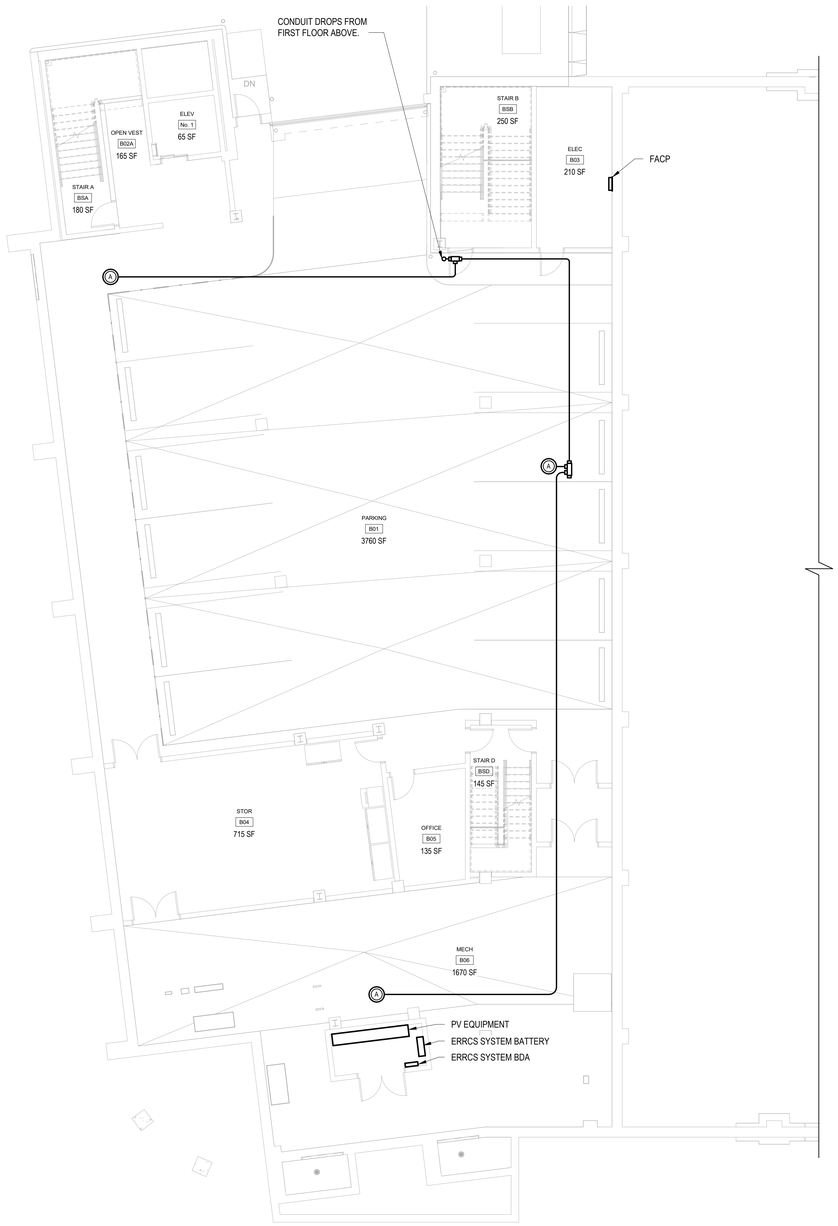
Sheet Title

FIRE PROTECTION DETAILS 3 OF 3

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

FP-703



FIRE RADIO PARKING FLOOR LEVEL PLAN

1 — SCALE: 1/8" = 1'-0"

NORTH

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT

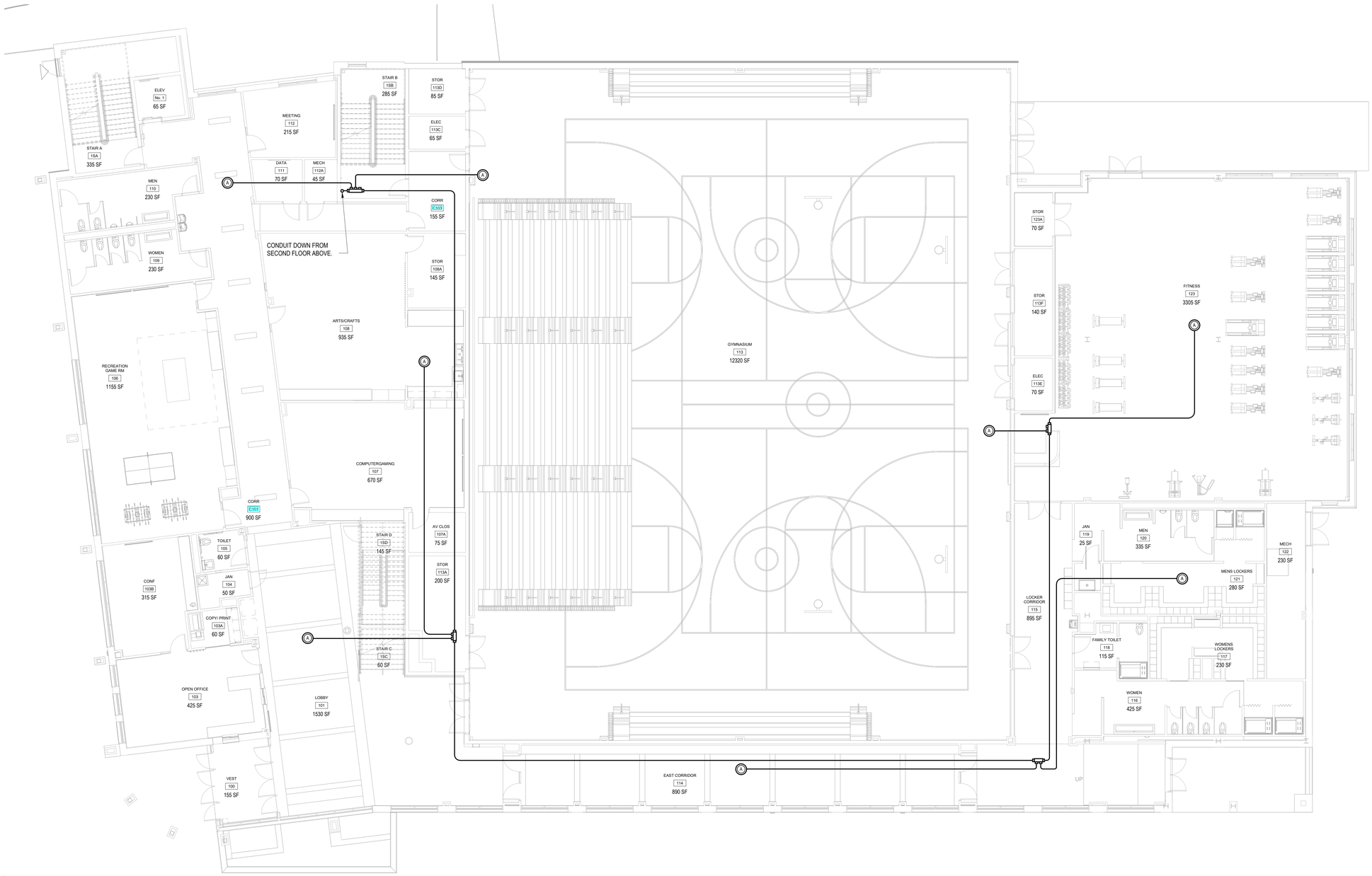
Sheet Title

FIRE RADIO PARKING LEVEL PLAN

Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

FR-301



1 FIRE RADIO FIRST FLOOR PLAN

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

NORTH

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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2	06/05/2024	ISSUED FOR BID
1	01/16/2024	ISSUED FOR PERMIT

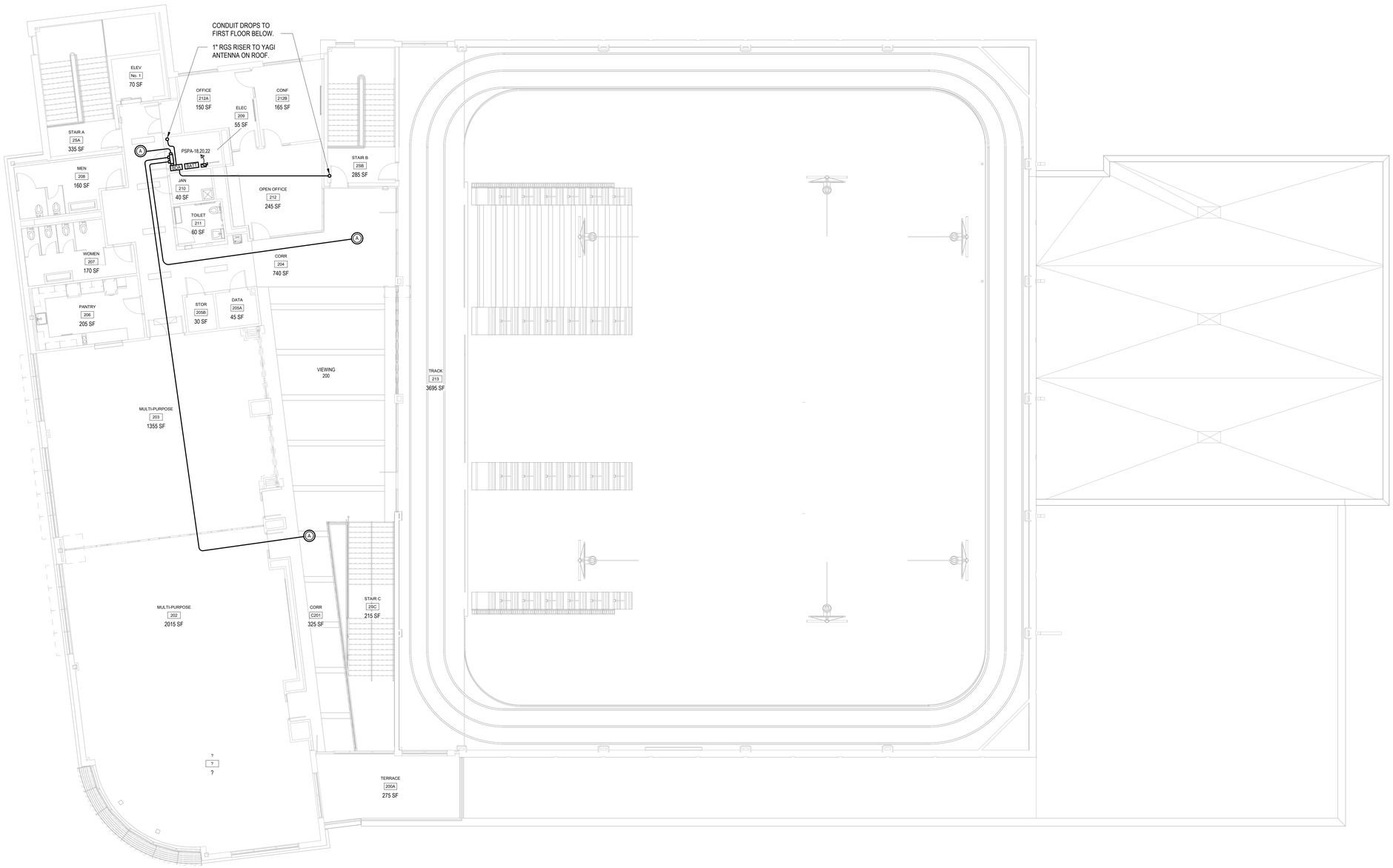
Sheet Title

FIRE RADIO FIRST FLOOR PLAN

Job No.: NKGD0207.00	Date: 01/09/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

FR-302



FIRE RADIO SECOND FLOOR PLAN

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

NORTH

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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Sheet Title

FIRE RADIO SECOND FLOOR PLAN

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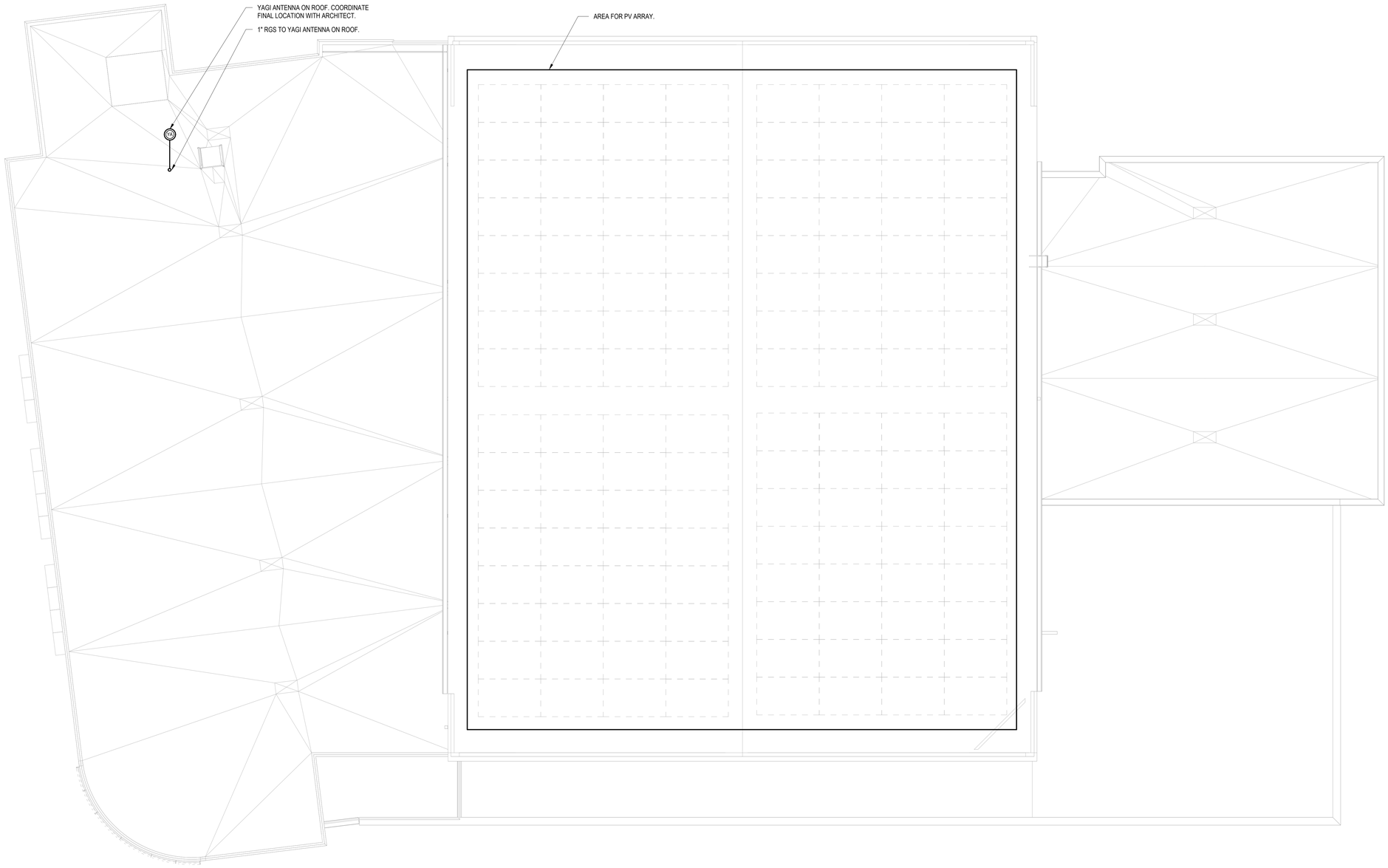
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

FR-303



1 FIRE RADIO ROOF PLAN

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

NOTES:
1.) SEE FIRE RADIO RISER DIAGRAM FOR ADDITIONAL INFORMATION.

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FIRE RADIO ROOF PLAN

Job No.	Date
NKGD0207.00	01/09/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

FR-304

PLUMBING FIXTURE SCHEDULE

TAG	SYMBOLS PLAN	SYMBOLS ELEVATION	FIXTURES	PLUMBING CONNECTIONS WASTE	VENT	COLD WATER	HOT WATER	DESCRIPTION
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1¼"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, WITH EVERCLEAN. 1½" INLET SPUD, 2½" TRAPWAY, 10"x12" WATER SURFACE AREA. FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161.002 BATTERY POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER
P-2			LAVATORY WALL HUNG	2"	2"	¾"	¾"	MANUFACTURER: SLOAN SOLID SURFACE 1-STATION WALL MOUNTED SINK MODEL: ELGR-81000 SLOANSTONE SOLID SURFACE. DOUBLE HOLE FAUCET; MODEL: REFER TO ARCHITECTURAL PLANS
P-2A			LAVATORY WALL HUNG	2"	2"	¾"	¾"	MANUFACTURER: SLOAN SOLID SURFACE 2-STATION WALL MOUNTED SINK MODEL: ELGR-82000 SLOANSTONE SOLID SURFACE. DOUBLE HOLE FAUCET; MODEL: REFER TO ARCHITECTURAL PLANS
P-2B			LAVATORY WALL HUNG	2"	2"	¾"	¾"	MANUFACTURER: SLOAN MODEL: ELGR-83000 SLOANSTONE SOLID SURFACE. TRIPLE HOLE FAUCET; MODEL: REFER TO ARCHITECTURAL PLANS
P-3			URINAL	3"	2"	¾"	-	MANUFACTURER: AMERICAN STANDARD MODEL: 6002.001 TOP SPUD HIGH EFFICIENCY URINAL 0.125 GPF, VITREOUS CHINA, ¾" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE. FLUSH VALVE: MODEL 6063013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE S ELECTRONIC URINAL FLUSH VALVE. 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE. 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER
P-4			SHOWER (ADA)	3"	2"	¾"	¾"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS24038A75FTB.V3* 38.25"x40.5"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-4A			SHOWER (ADA)	3"	2"	¾"	¾"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS26337A75FTB.V3* 38.5"x63"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-5			ART ROOM SINK	2"	2"	¾"	¾"	MANUFACTURER: ELKAY MODEL: EWMA4820C 304 STAINLESS STEEL WALL HUNG MULTIPLE STATION HAND WASH SINK. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-6			SINK (ADA)	2"	2"	¾"	¾"	MANUFACTURER: ELKAY MODEL: LRAD221955 FAUCET; MAKE: ELKAY MODEL: LK406GN05T4 304 STAINLESS STEEL DROP IN ADA SINK. FAUCET SHALL BE BRASS MATERIAL, & DOUBLE HOLE WITH A FLOW RATE OF 1.5 GPM. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-7			JANITOR'S SINK	3"	2"	¾"	¾"	MANUFACTURER: ZURN MODEL: Z5850 FAUCET: ZURN SINK FAUCET Z843M1-XL ENAMELED CAST IRON CORNER FLOOR SINK WITH 28x28x8 BOWL, 3" DRAIN WITH DRAIN GRID
CM			COFFEE MAKER	-	-	¾"	-	MANUFACTURER: CURTIS MODEL: ALPHA G3 AUTOMATIC COFFEE BREWING SYSTEM SHALL BE ABLE TO BREW 12 GAL/HR ELECTRICAL: 120/1/60, 1800 WATTS, 15 AMPS
CM-1			COFFEE MAKER	-	-	¾"	-	MANUFACTURER: KEURIG MODEL: KEURIG K-2500 PLUMBED COMMERCIAL COFFEE MAKER ELECTRICAL: 120/1/60, 1800 WATTS, 12 AMPS
IM	ICE	ICE	ICE MACHINE	-	-	¾"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: KMC-H-530-A 30" AIR COOLED MODULAR HALF CUBE ICE MACHINE WITH BIN - 500LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 500 LBS/DAY AT 90°F. 350 LB BIN STORAGE CAPACITY. ELECTRICAL: 115/1/60, 9.4 AMPS
IM-1	ICE	ICE	ICE MACHINE	-	-	¾"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL:UC-F-120-A-19" AIR COOLED UNDERCOUNTER FULL CUBE ICE MACHINE - 129LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 129 LBS/DAY AT 90°F. 40 LB BIN STORAGE CAPACITY. ELECTRICAL: 115/1/60, 5 AMPS
DW			DISHWASHER	1-⅜"	-	-	½"	MANUFACTURER: JACKSON WAREWASHING SYSTEMS MODEL: DISHSTAR HT-E UNDERCOUNTER DISHWASHER, HIGH TEMPERATURE SANITIZING. 27 RACKS PER HOUR CAPACITY, 100 SECOND CYCLE, BOTTOM MOUNTED CONTROLS WITH STAINLESS STEEL TOP AND SIDE PANELS, AND BUILT IN BOOSTER HEATER. 180°F FINAL RINSE WATER. ELECTRICAL: 208/60/1
DF			DRINKING FOUNTAIN	2"	2"	¾"	-	MANUFACTURER: ELKAY MODEL: LZSTL8WSLK ezH20 BOTTLE FILLING STATION AND BI-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRAY. 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/P/Hz: 115/1/60, FLA=6
DF-1			DRINKING FOUNTAIN	2"	2"	¾"	-	MANUFACTURER: ELKAY MODEL: LZS8WSLK ezH20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER FILTERED REFRIGERATED LIGHT GRAY. 8.0 GPH OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/P/Hz: 115/1/60, FLA=6
FD			FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN; MAKE: JR SMITH MODEL: 2110 MEDIUM DUTY DRAIN, 8.5" ROUND TOP, STRAINER. PROVIDE TRAP SEAL
FD-1			PARKING GARAGE FLOOR DRAIN	3"	2"	-	-	WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND HEAVY DUTY CAST IRON GRATE. PROVIDE TG-1 FOR EACH FD.
NFHB			NON FREEZE HOSE-BIB	-	-	-	-	HOSE BIB; MAKE: WOODFORD MODEL: 65 ANTI-SIPHON PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL VACUUM BREAKER
COPD			CLEANOUT DECK PLATE	-	-	-	-	FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OF SECTIONS AND ROUND SCORIATED NICKEL-BRONZE TOP: WADE #W-6000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS. CODP IN GARBAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC.
WCO			WALL CLEANOUT	-	-	-	-	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL.
RD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" SERIES COATED CAST IRON ROOF DRAIN. LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.
OD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" 16 SERIES COATED CAST IRON ROOF DRAIN. LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, INTERNAL WATER GUARD FOR OVERFLOW, LARGE SUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

RFI 024

RFI 067

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR
	AHC	ABOVE HUNG CEILING
	BFP	BACK FLOW PREVENTOR
	–	BALL VALVE
	–	BASKET STRAINER
	–	BUTTERFLY VALVE
	–	CHECK VALVE
	–	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
	CW	COLD WATER
	–	CONCENTRIC REDUCER
	DCV	DOUBLE CHECK VALVE - BFP
	–	ECCENTRIC REDUCER
	–	ELBOW DOWN
	–	ELBOW UP
	DEM.	EXISTING TO BE REMOVED
	EX.	EXISTING TO REMAIN
	–	FLEXIBLE CONNECTION
	FCO	FLOOR CLEAN OUT
	FS	FLOOR SINK
	–	FLOW ARROW
	FAI	FRESH AIR INTAKE
	–	GATE VALVE
	–	GLOBE VALVE
	HW	HOT WATER
	HW HTR	HOT WATER HEATER
	HWC	HOT WATER RECIRCULATION
	LDR	LEADER
	–	MANUAL AIR VENT
	NEW	NEW WORK
	–	OS&Y GATE VALVE
	–	PLUG VALVE
	–	PIPE CAP
	–	PRESSURE GAGE
	–	PRESSURE REDUCING VALVE
	–	PUMP
	PD	PUMP DISCHARGE
	RPZ	REDUCED PRESSURE ZONE - BFP
	REL.	REMOVE AND RELOCATE
	S	SANITARY
	–	SOLENOID VALVE
	–	STRAINER
	SD	STORM DRAINAGE
	–	TEE DOWN
	–	TEE UP
	–	THERMOMETER
	TYP.	TYPICAL
	–	T&P RELIEF VALVE
	–	UNION
	V	VENT
	VTR	VENT THROUGH ROOF
	WCO	WALL CLEAN OUT
	W	WASTE LINE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

PLUMBING MATERIALS

1. ALL PIPING BURIED BELOW THE GARAGE SLAB SHALL BE HIGH PERFORMANCE HUB & SPIGOT SERVICE WEIGHT CAST IRON CHARLOTTE PIPE "EDGE HP IRON" ATSM A74, CISPI TM/NSF, EN 877 COMPRESSION GASKETS ASTM C564 OR LEAD & OAKUM. REFER TO SPECIFICATIONS 221316

GENERAL NOTES

1. THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
4. CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
5. PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
6. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

GENERAL NOTES

7. PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
8. PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2½".
9. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
10. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
11. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
12. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
14. PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
15. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
16. SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
17. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

1. NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-1): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED. 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
2. NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-2): SHALL BE BASED ON AO SMITH MODEL BTH-150 MXI, RATED FOR 178 GPH @ 100° RISE, GAS FIRED. 150,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
3. NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-3): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED. 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
4. ELEVATOR SUMP PUMP, (ESP-1): TO BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 8 FLA, 55 GPM @ 20 FEET HEAD AND 3450 RPM, 40A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
5. SUMP PUMP, (SP-1) AND (SP-2), TO BE BASED ON STANCOR MODEL SV500 PUMP, 5 HP, 208V-3 PHASE-60 HERTZ, 16.6 FLA, 210 GPM @ 35 FEET HEAD AND 3450 RPM, 83A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
6. LD-1 SPOT TYPE LEAK DETECTORS SHALL BE LIEBERT MODEL LT-410. PROVIDE 100 WATT LOW-VOLTAGE TRANSFORMER. PROVIDE CONNECTION TO BMS FOR LD ALARM.
7. DOMESTIC HOT WATER HEATER RECIRCULATION PUMP, (HWCP-1): SHALL BE BASED ON BELL AND GOSSETT MODEL PL-55 RATED FOR 1- GPM AT 40' TDH, 2/5 HP, 120V/10/60HZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
8. 3" DOMESTIC WATER BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND FOUR BALL TYPE TEST COCKS. THE 3" DOMESTIC WATER BACKFLOW PREVENTER SHALL BE PROVIDED WITH WATTS AIR GAP / SPLASH GUARD.
9. 6" FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS SERIES 709DCDA DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&Y SEATED SHUTOFF VALVES AND TWO BALL TYPE TEST COCKS.
10. WATER METER: SHALL BE BASED ON ELSTER EVOQ4 METER, 3" SIZE. FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED AND APPROVED BY THE WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION, AND ALL RELATED WATER DEPARTMENT FEES.
11. ALL DOMESTIC, SANITARY, AND STORM PIPING ROUTED EXPOSED WITHIN GARAGE SHALL BE HEAT TRACED COMPLETE, INCLUDING A MINIMUM OF 5'-0" INTO THE TEMPERED SPACES. PIPING SHALL BE INSULATED COMPLETE AND WRAPPED WITH PVC JACKETING .
12. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF FIXTURES AND ROOF DRAINS THROUGHOUT THE BUILDING.
13. COORDINATE WITH SITE ENGINEER DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF ROADWAY DRAINS.
14. ALL PIPING INCLUDING HANGERS/SUPPORTS WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICLE CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM ELEVATIONS.
15. THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING EQUIPMENT, DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, AND ALL RCP ELEMENTS, ETC.
16. PROVIDE TRAP AND VALVE GUARDS AT ALL LAVATORIES WITH EXPOSED PIPING SIMILAR TO TRUEBRO P-TRAP AND TWO (2) VALVE COVERS WITH VINYL COVER.
17. GAS BOOSTER PUMP (GMP-1): SHALL BE ACCARDI COMPAC HB4615-1. SYSTEM SHALL BE A PACKAGE HERMETICALLY SEALED SYSTEM THAT INCLUDES AUTO FLOW CONTROL, INTEGRAL VFD, NEMA 4 PANEL, NEMA 4 LOW PRESSURE SWITCH, INLET AND OUTLET ISOLATION VALVES, FLEXIBLE CONNECTIONS, INLET AND OUTLET PRESSURE GAUGES, AND CHECK VALVE. SYSTEM SHALL BE CAPABLE OF OF DELIVERING A VARIABLE VOLUME OF NATURAL GAS OF 1,370 CFH WHILE PROVIDING A CONSTANT ELEVATED DIFFERENTIAL GAS PRESSURE OF 11" WC.

RFI 013

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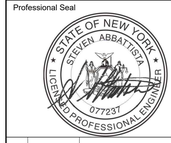


No.	Date	Issue
9	12/13/2024	PERMIT ADDENDUM
8	10/09/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

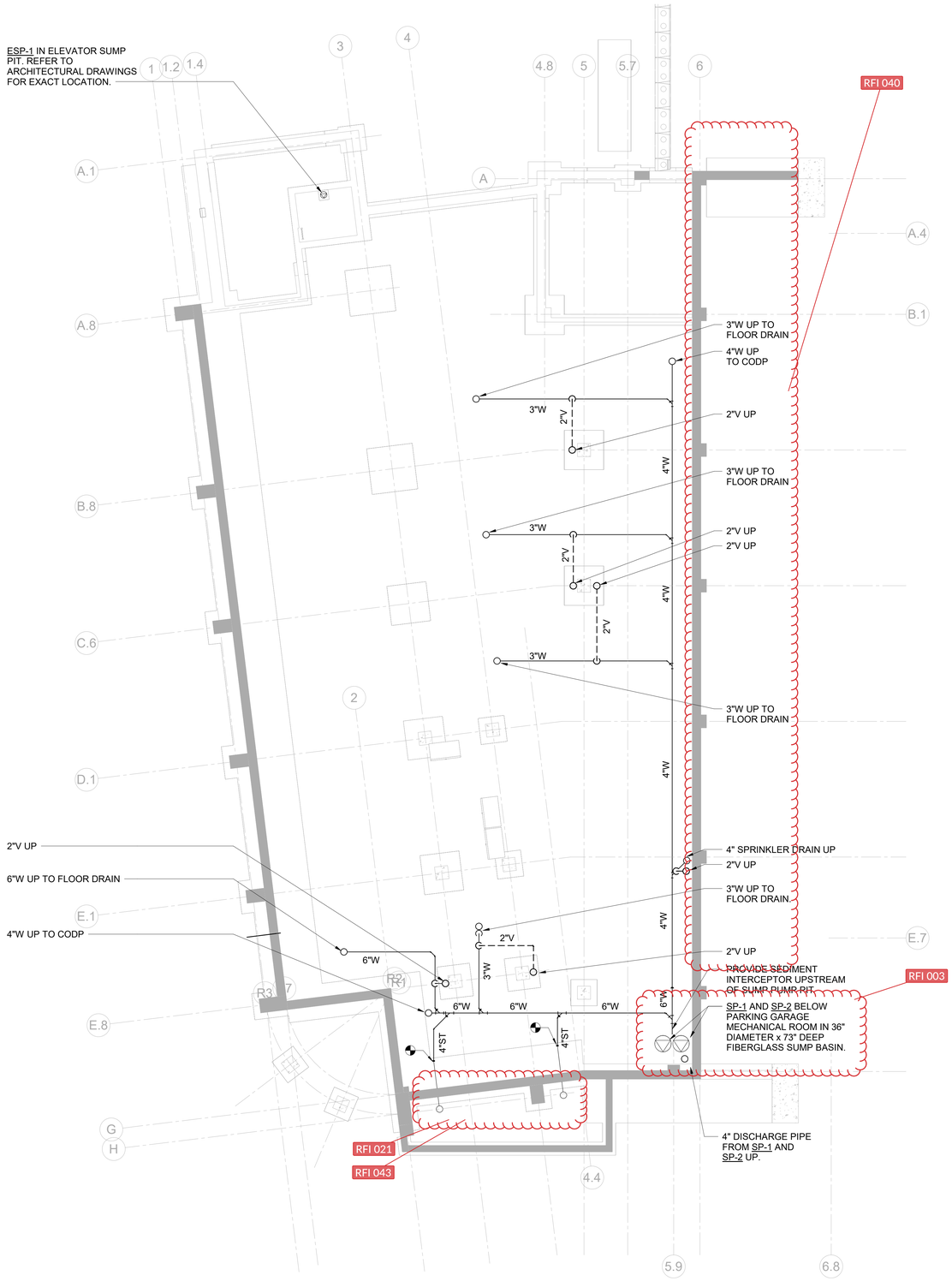
Sheet Title

PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

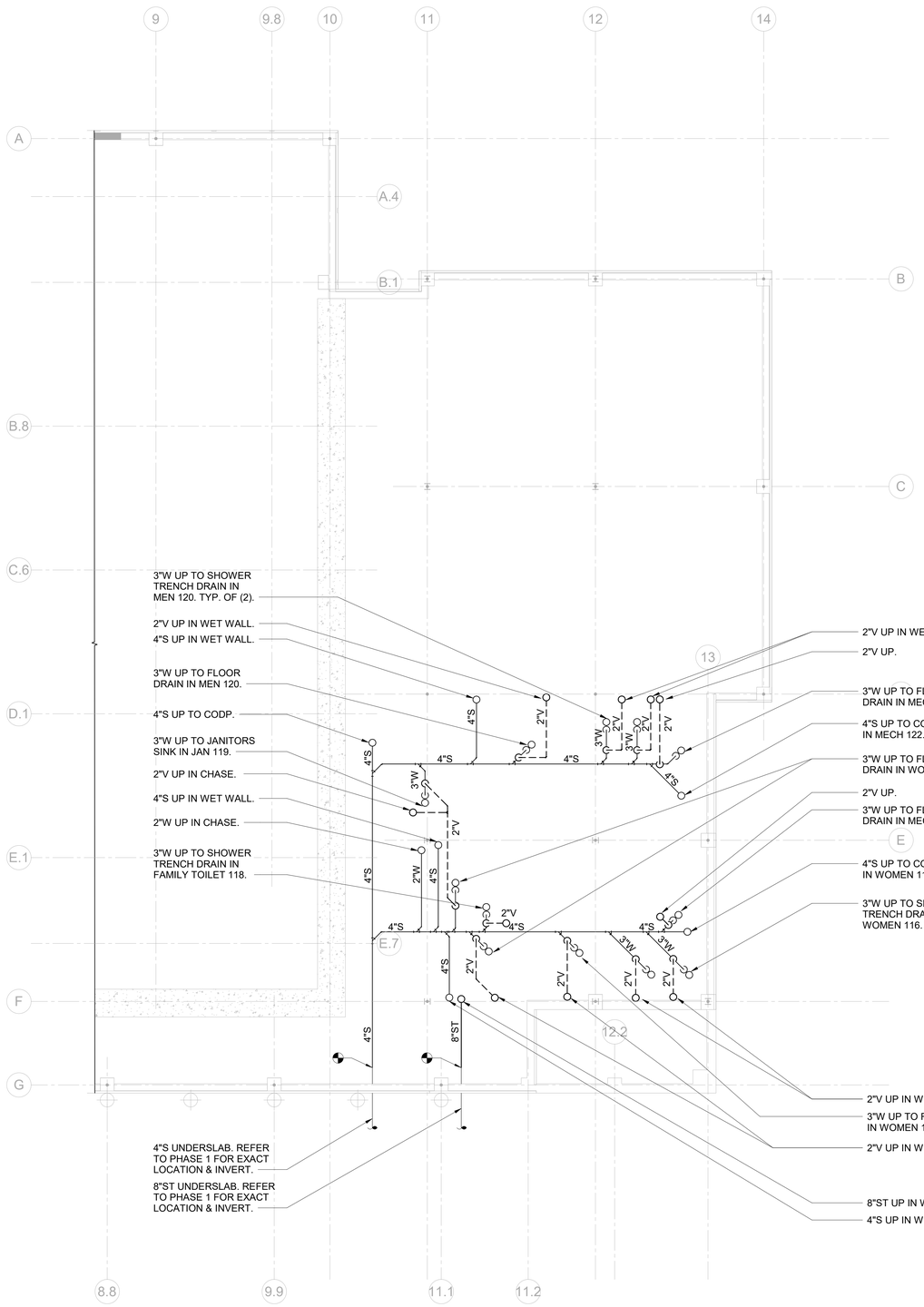
P-001



1 PLUMBING PARKING FLOOR SLAB PLAN

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

NORTH



2 PLUMBING FIRST FLOOR SLAB PLAN

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

NORTH

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Key Plan

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

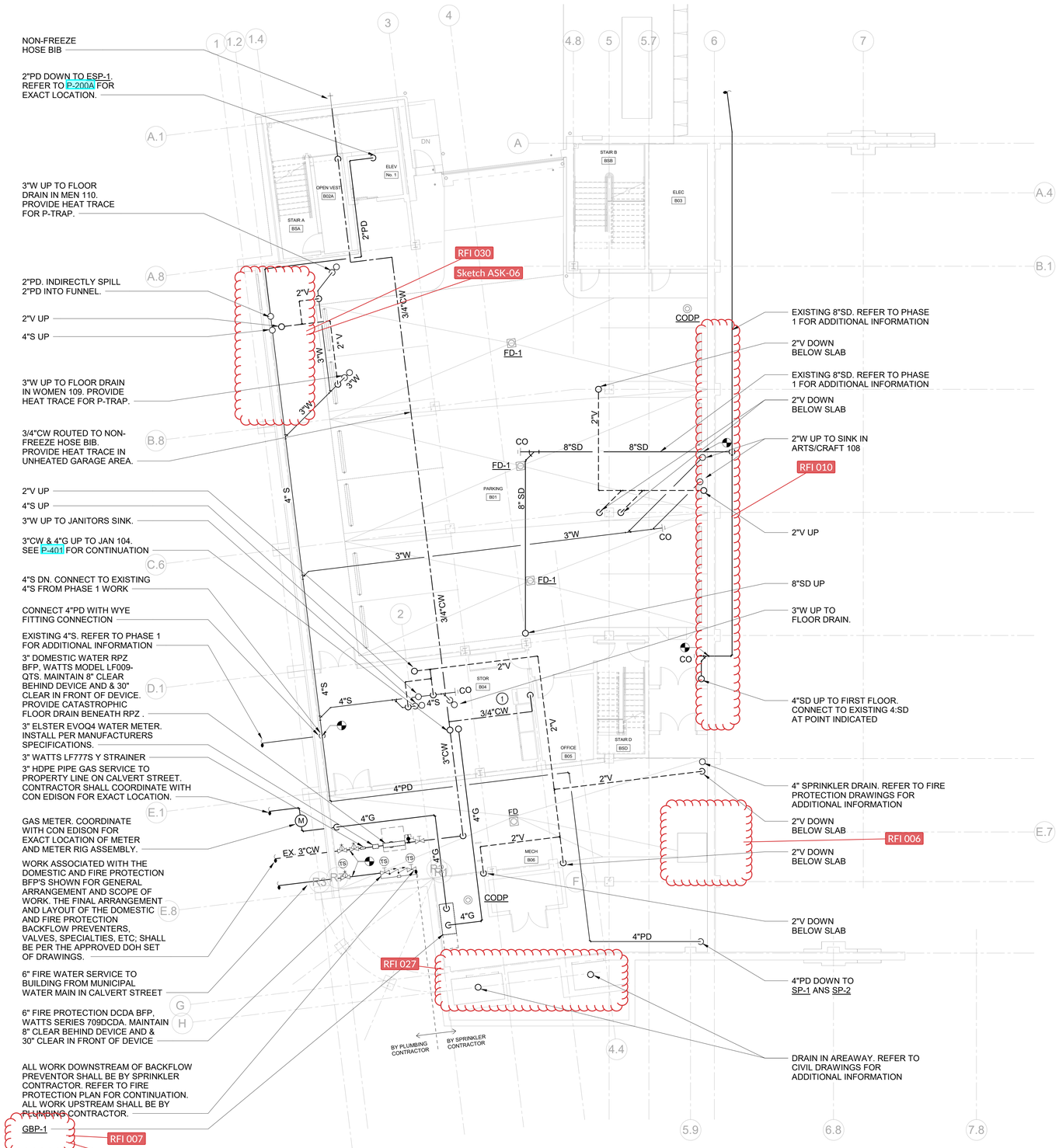
Sheet Title

PLUMBING PARKING FLOOR & FIRST FLOOR SLAB PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

P-200A



NEW WORK KEY NOTES

1. ICE MACHINE IM. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVE.

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7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

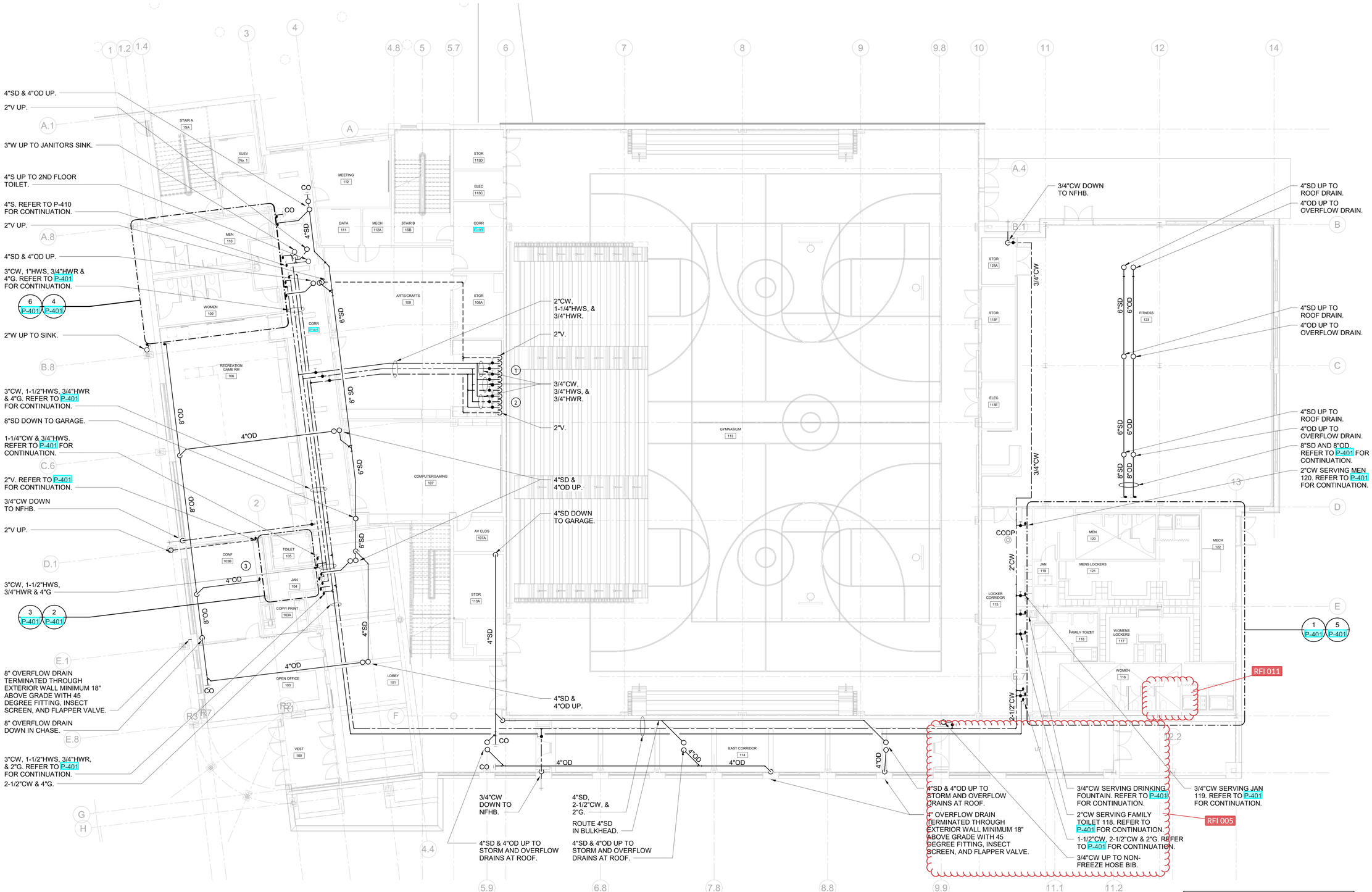
Sheet Title

PLUMBING PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

P-201



1 PLUMBING FIRST FLOOR PLAN
NORTH
SCALE: 1/8" = 1'-0"

NEW WORK KEY NOTES

1. SINK P-5. PROVIDE (2) 3/4"CW, (2) 3/4"HW, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL
2. SINK P-6. PROVIDE 3/4"CW, 3/4"HW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL
3. COFFEE MAKER CM-1. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER .

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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

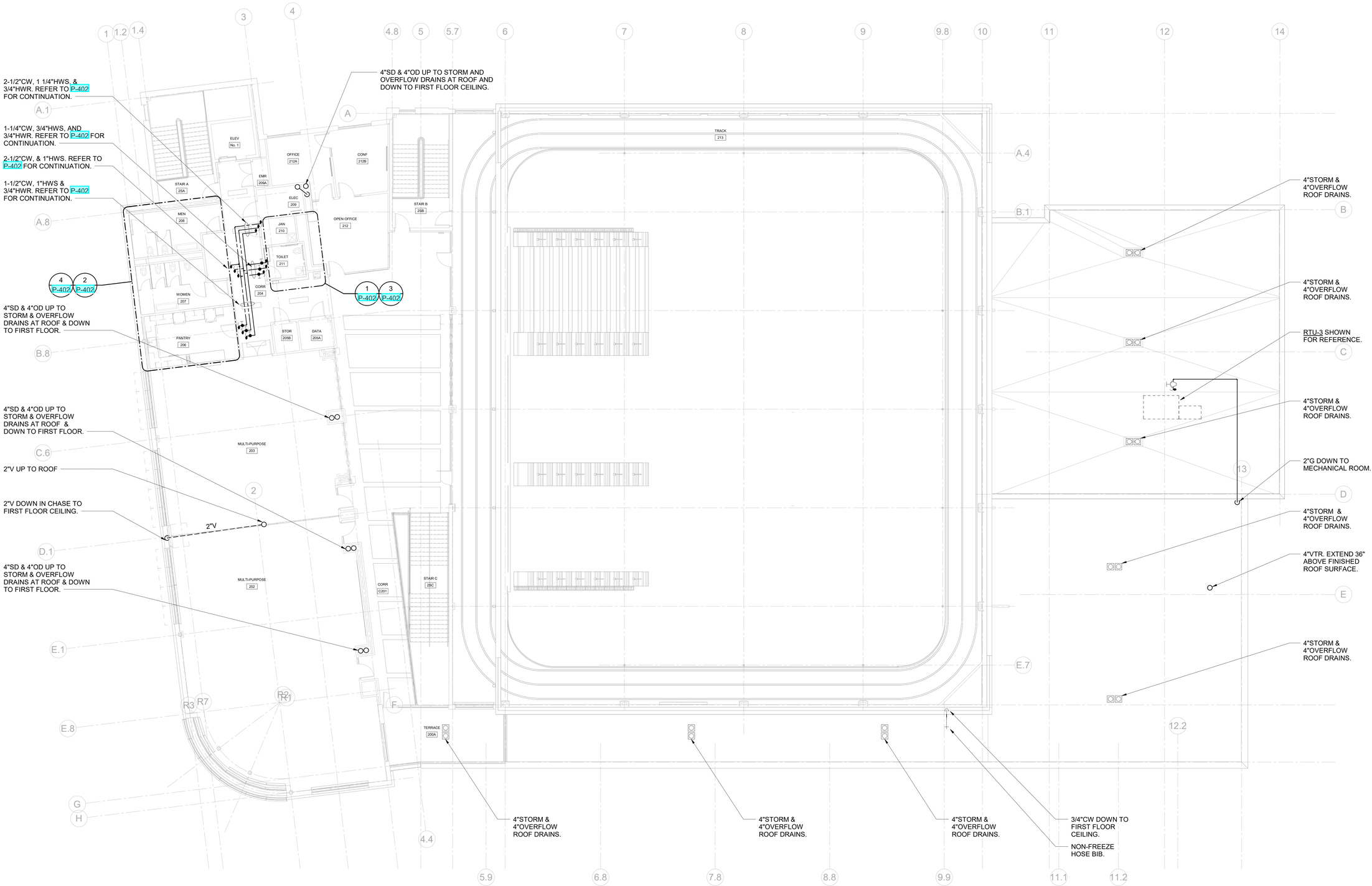
Sheet Title

PLUMBING FIRST FLOOR PLAN

Job No: NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

P-202



1 PLUMBING SECOND FLOOR PLAN

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

NORTH

HARRISON RECREATION & COMMUNITY CENTER

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

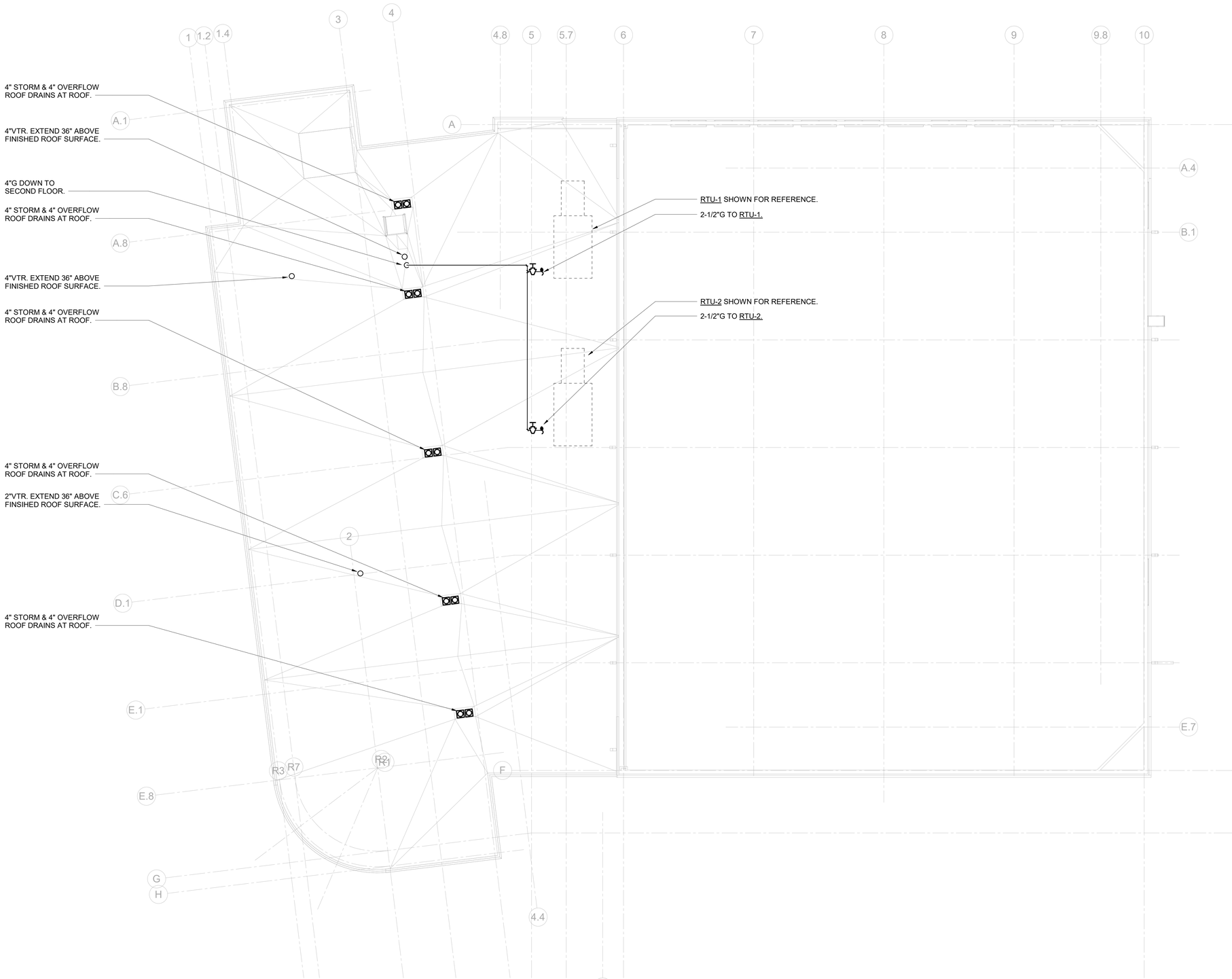
Sheet Title

PLUMBING SECOND FLOOR PLAN

Job No: NKGD0207.00	Date 01/24/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

P-203



NORTH

1 PLUMBING ROOF PLAN

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

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1	03/31/2020	50% DESIGN DEVELOPMENT

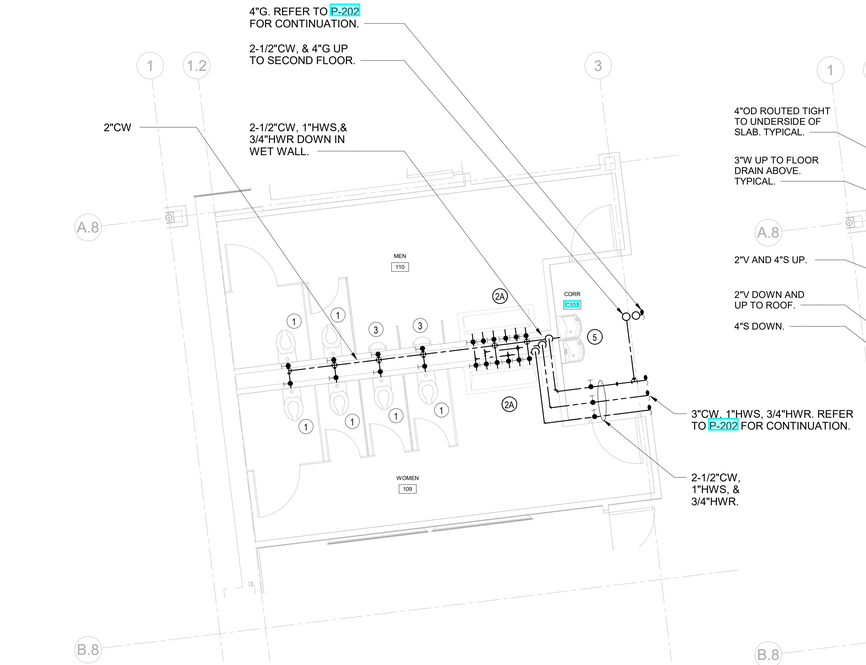
Sheet Title

PLUMBING ROOF PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

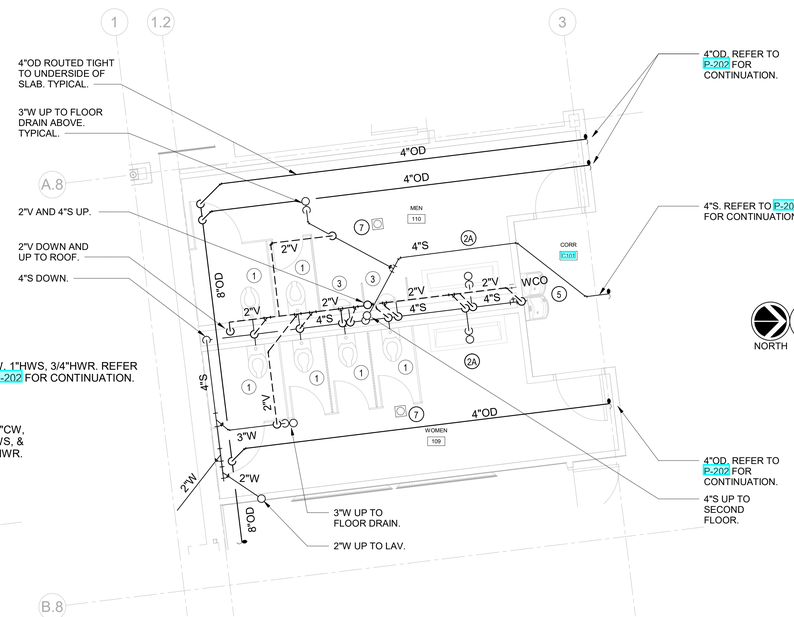
Sheet Number

P-204



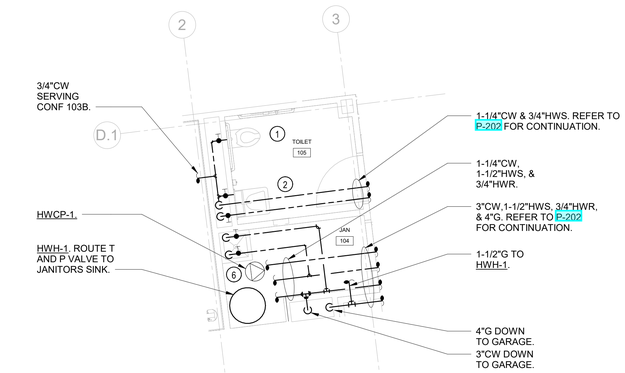
PLUMBING MEN 110 & WOMEN 109 - DOMESTIC WATER PLAN

NORTH 6 SCALE: 1/4" = 1'-0"



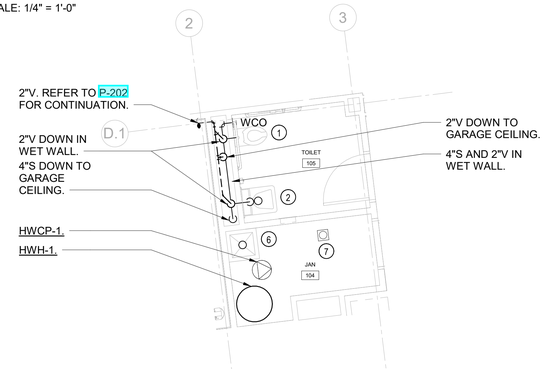
PLUMBING MEN 110 & WOMEN 109 - SANITARY PLAN

NORTH 4 SCALE: 1/4" = 1'-0"



PLUMBING JAN 104 & TOILET 105 - DOMESTIC WATER PLAN

NORTH 3 SCALE: 1/4" = 1'-0"

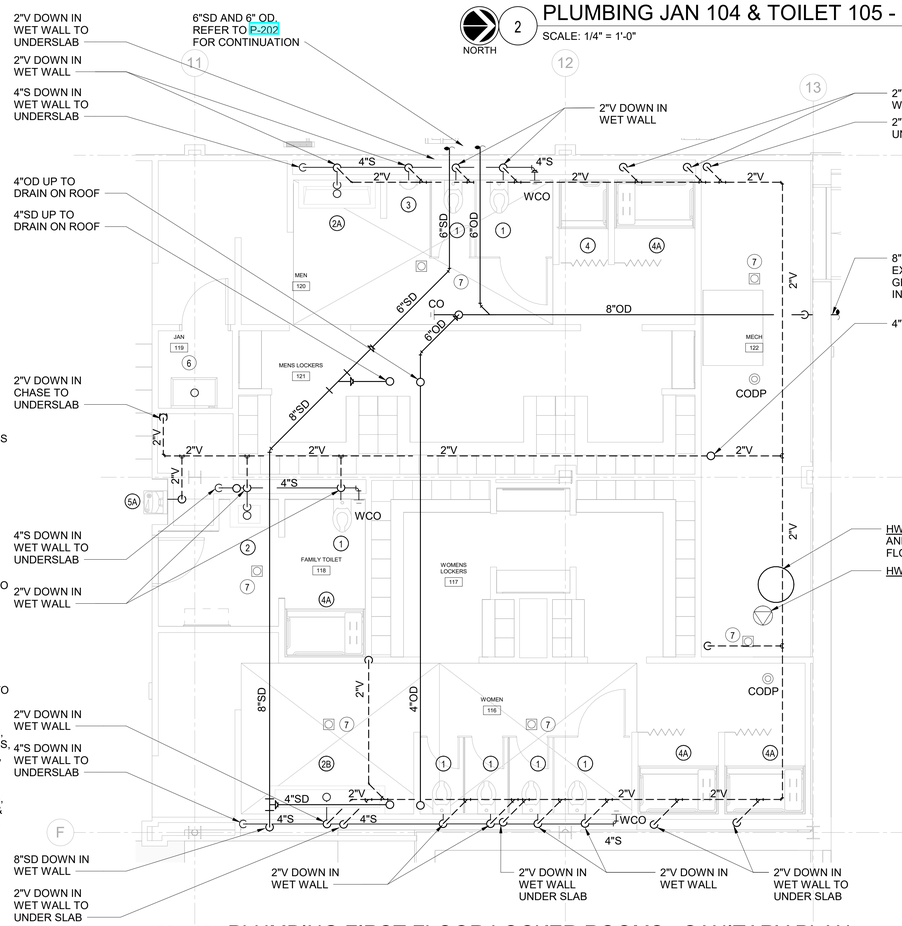


PLUMBING JAN 104 & TOILET 105 - SANITARY PLAN

NORTH 2 SCALE: 1/4" = 1'-0"

PLUMBING FIRST FLOOR LOCKER ROOMS - DOMESTIC WATER PLAN

NORTH 5 SCALE: 1/4" = 1'-0"



PLUMBING FIRST FLOOR LOCKER ROOMS - SANITARY PLAN

NORTH 1 SCALE: 1/4" = 1'-0"

NEW WORK KEY NOTES

1. WATER CLOSET P-1. PROVIDE 1-1/4"CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
2. 1-STATION LAVATORY P-2. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
2A. 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4"CW, (2) 3/4"HW, (2) 3/4"HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
2B. 3-STATION LAVATORY P-2B. PROVIDE (3) 3/4"CW, (3) 3/4"HW, (3) 3/4"HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
3. URINAL P-3. PROVIDE 1-1/4"CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
4. SHOWER P-4. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
4A. SHOWER P-4A. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
5. DRINKING FOUNTAIN DF. PROVIDE 3/4"CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
5A. DRINKING FOUNTAIN DF-1. PROVIDE 3/4"CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
6. JANITOR SINK P-7. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
7. FLOOR DRAIN FD. PROVIDE 3"W AND 2"V. TYPICAL.

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3	03/31/2020	50% DESIGN DEVELOPMENT

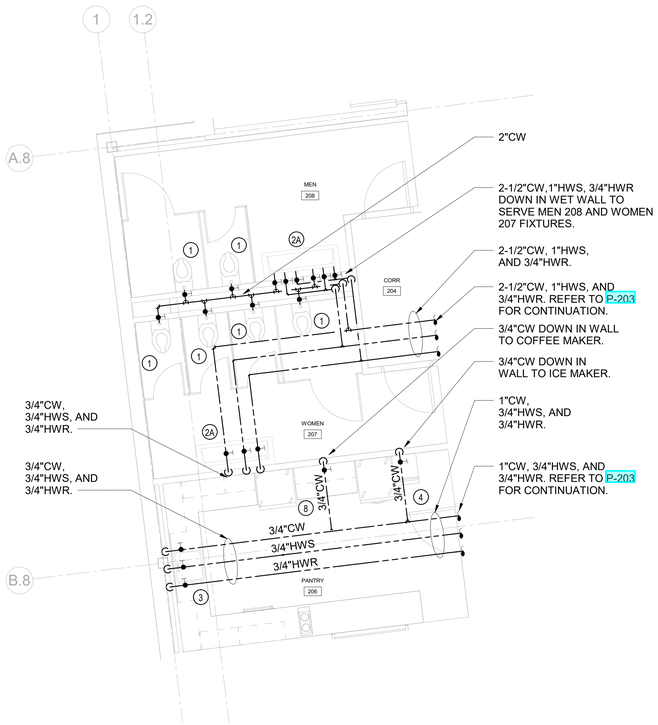
Sheet Title

PLUMBING FIRST FLOOR ENLARGED PLANS

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

P-401



PLUMBING PANTRY 206, WOMEN 207, & MEN 208 - DOMESTIC WATER PLAN

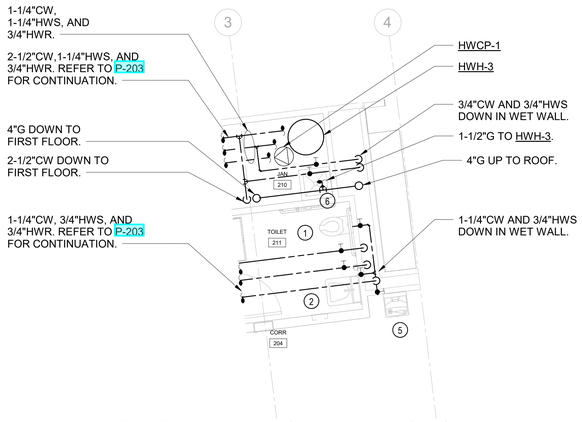
4 NORTH

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

PLUMBING PANTRY 206, WOMEN 207, & MEN 208 - SANITARY PLAN

2 NORTH

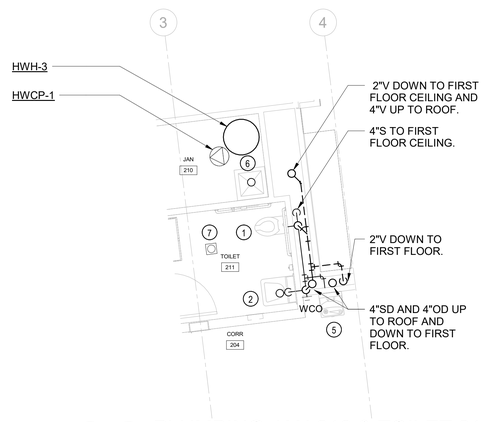
SCALE: 1/4" = 1'-0"



PLUMBING - JAN 210 & TOILET 211 - DOMESTIC WATER PLAN

3 NORTH

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



PLUMBING JAN 210 & TOILET 211 - SANITARY PLAN

1 NORTH

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

NEW WORK KEY NOTES

1. WATER CLOSET P-1. PROVIDE 1-1/4"CW, 4"S, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
2. 1-STATION LAVATORY P-2. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
2A. 2-STATION LAVATORY P-2A. PROVIDE (2) 3/4"CW, (2) 3/4"HW, (2) 3/4"HWR, (1) 2"W, AND (1) 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
3. PANTRY SINK P-6. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
4. ICE MAKER IM-1. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVES. TYPICAL.
5. DRINKING FOUNTAIN DF-1. PROVIDE 3/4"CW, 2"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
6. JANITOR SINK P-7. PROVIDE 3/4"CW, 3/4"HW, 3/4"HWR, 3"W, AND 2"V. PROVIDE SHUT-OFF VALVES. TYPICAL.
7. FLOOR DRAIN FD. PROVIDE 3"W AND 2"V. TYPICAL.
8. COFFEE MAKER CM. PROVIDE 3/4"CW. PROVIDE SHUT-OFF VALVE AND BACKFLOW PREVENTER.

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1	03/31/2020	50% DESIGN DEVELOPMENT

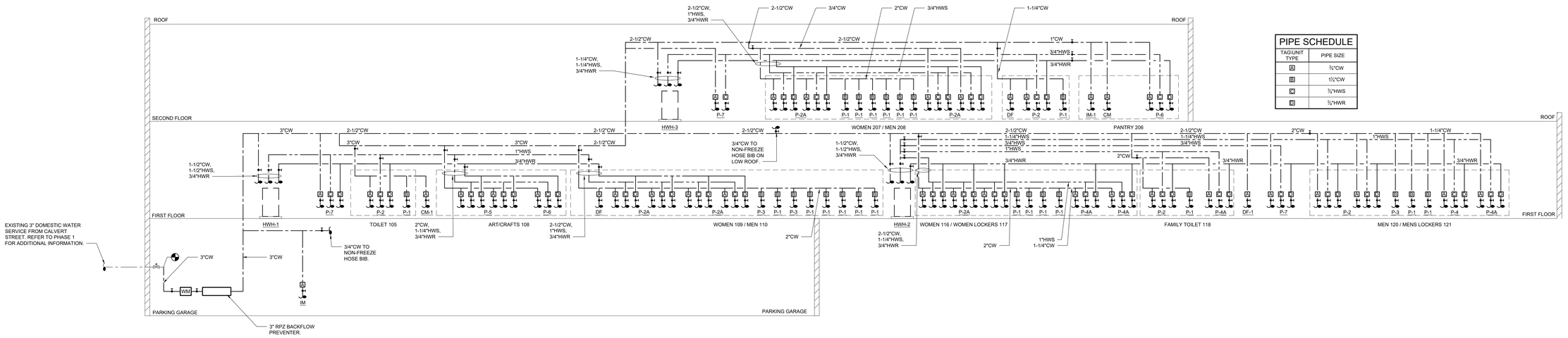
Sheet Title

PLUMBING SECOND FLOOR ENLARGED PLANS

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

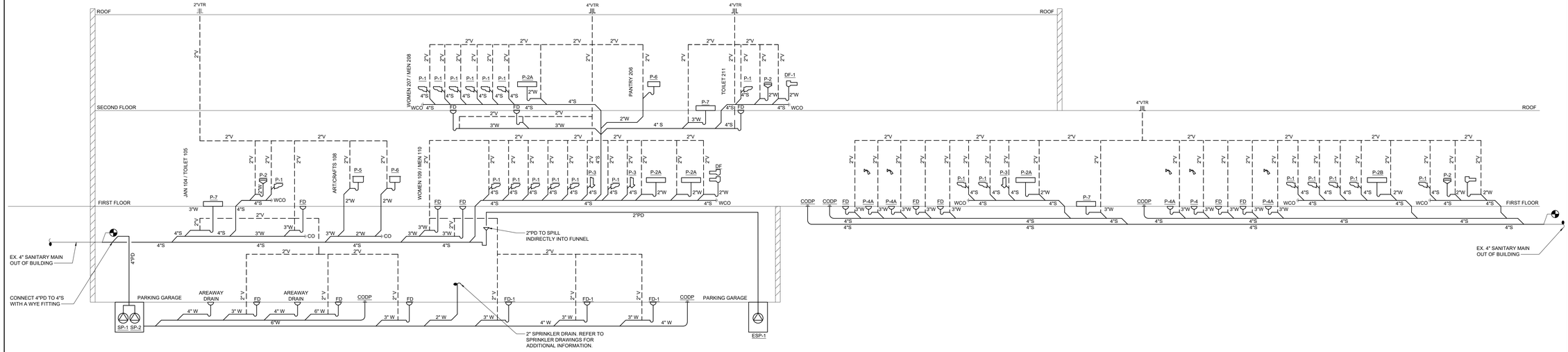
Sheet Number

P-402



2 DOMESTIC WATER RISER DIAGRAM
SCALE: NTS

PIPE SCHEDULE	
TAG\UNIT TYPE	PIPE SIZE
A	¾"CW
B	1½"CW
C	¾"HWS
D	¾"HWR



1 SANITARY RISER DIAGRAM
SCALE: NTS

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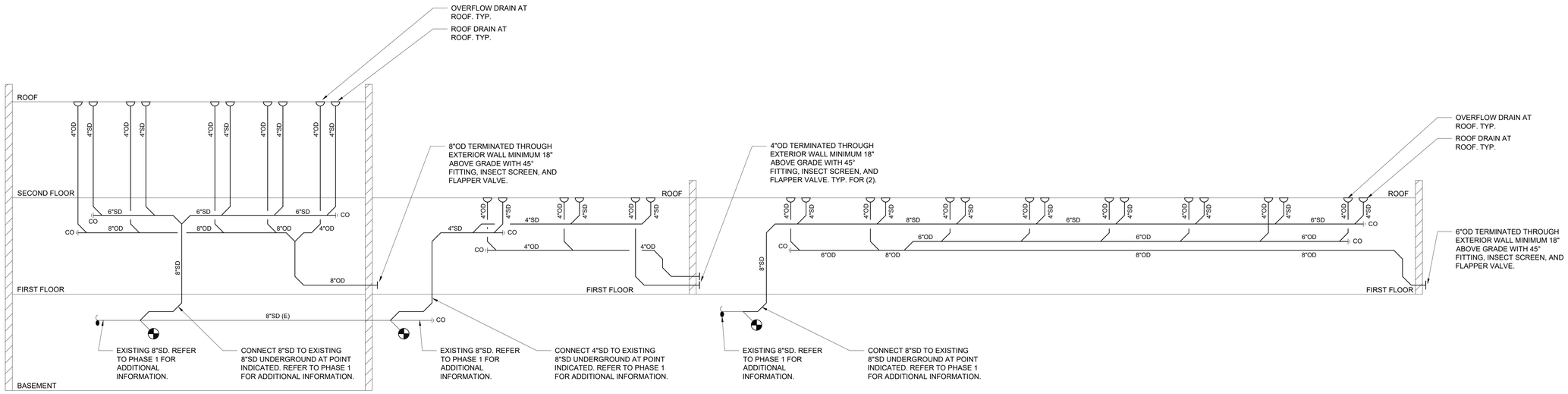
Sheet Title

PLUMBING RISER DIAGRAMS 1 OF 2

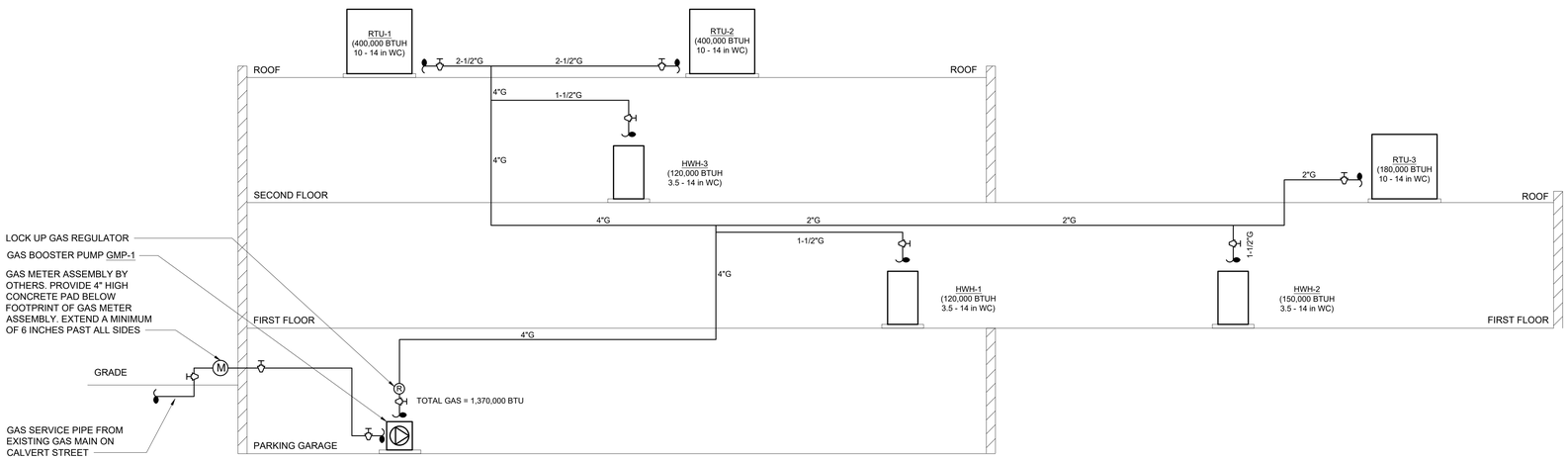
Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

Sheet Number

P-501



2 PLUMBING STORM RISER DIAGRAM
SCALE: NTS



1 PLUMBING GAS RISER DIAGRAM
SCALE: NTS

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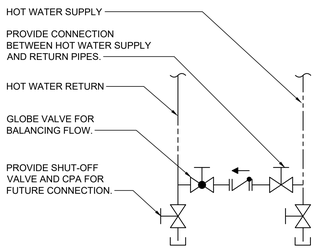
Sheet Title

PLUMBING RISER DIAGRAM 2 OF 2

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

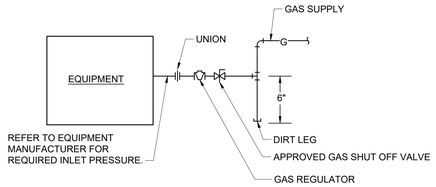
P-502



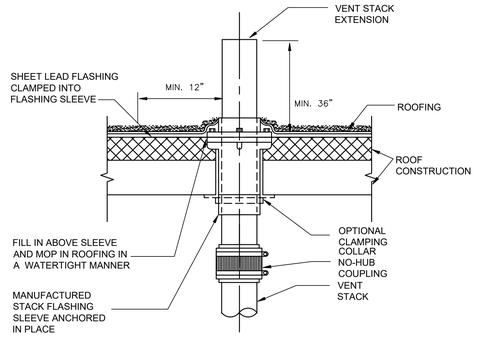
NOTE:
HOT WATER CIRCULATION CONNECTION SHALL BE LOCATED THROUGHOUT BUILDING AS REQUIRED TO ACHIEVE EFFICIENT HOT WATER SUPPLY

MAXIMUM PIPING LENGTH (FEET)		
NOMINAL PIPE SIZE (INCHES)	PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	6	50
5/16	4	50
3/8	3	50
1/2	2	43
5/8	1	32
3/4	0.5	21

8 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE

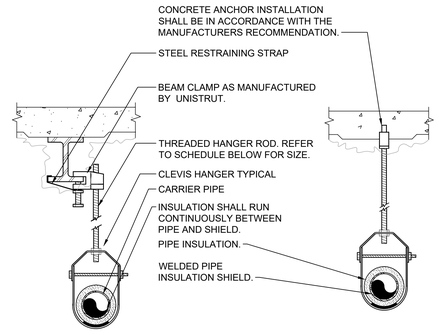


6 EQUIPMENT GAS CONNECTION SCHEMATIC
SCALE: NONE



NOTE: VENT STACK OUTLET TO BE 10 FT.(MIN) FROM ANY WALL OR STRUCTURE AND 3 FT.ABOVE STRUCTURE

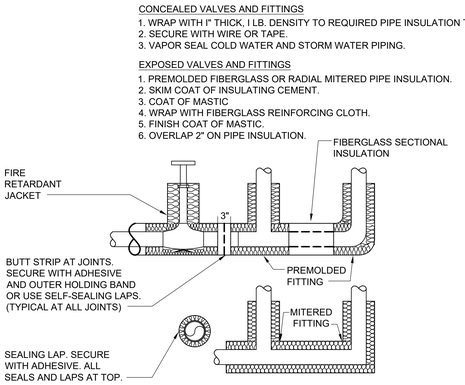
4 VENT THRU ROOF DETAIL
SCALE: NONE



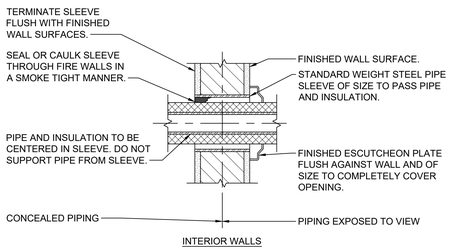
PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

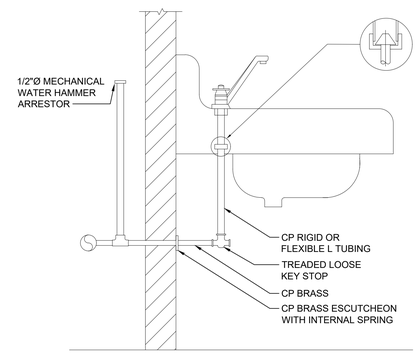
2 PIPE HANGER DETAIL
SCALE: NONE



7 PIPE INSULATION DETAIL
SCALE: NONE

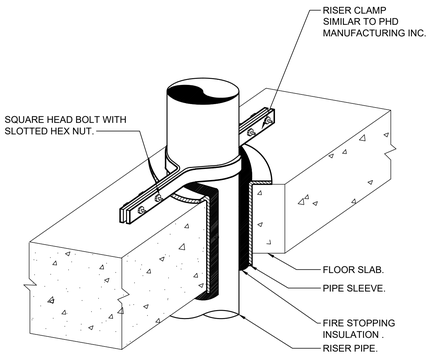


5 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



NOTE:
1. SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES.

3 SUPPLY LAVATORY SUPPLY CONNECTION
SCALE: NONE



1 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

PLUMBING DETAILS

Job No.	Date
NKGD0207.00	03/01/2024
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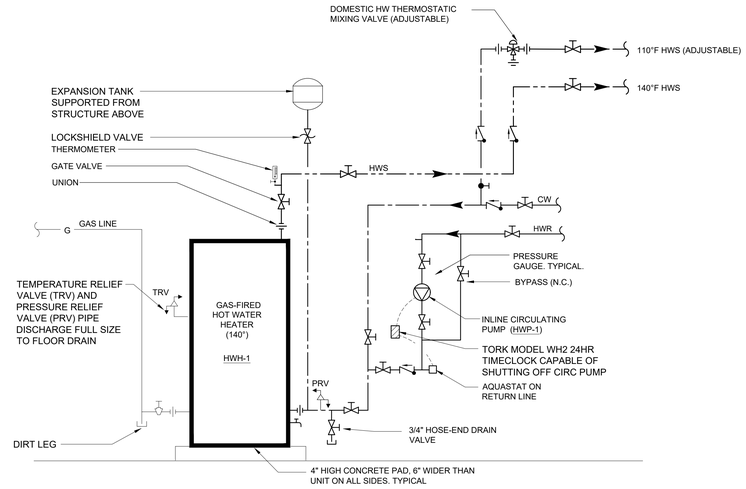
Sheet Number

P-701

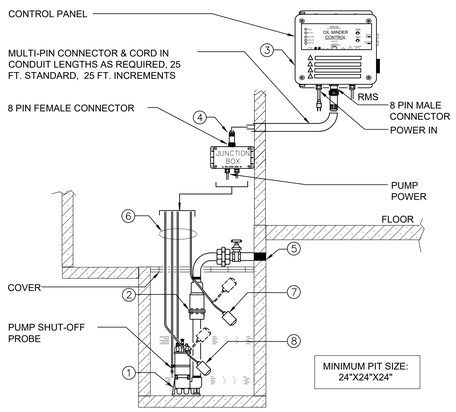
PLUMBING PIPE MATERIAL SCHEDULE

PIPE SYSTEM	SIZE	PIPE			FITTINGS		
		MATERIAL	TYPE / WEIGHT	STANDARD	MATERIALS	TYPE / WEIGHT	STANDARD
DOMESTIC WATER PIPING (CW, HWS, HWR)	ALL	COPPER	HARD / TYPE L	ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
WATER SERVICE PIPING	¾" - 4"	COPPER	HARD / TYPE K	ASTM B75 ASTM B88	COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	DUCTILE IRON	SCHEDULE 40	AWWA C151/A21.51	DUCTILE IRON	GROOVED END	AWWA C606
SANITARY, WASTE, VENT (ABOVE GROUND)	< 4"	COPPER	DWV HARD / TYPE L	ASTM B88	DWV COPPER	95 / 5 SOLDER LEAD FREE	ASTM B828 ASME B16.22
	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
			SCHEDULE 40 / SERVICE		CAST IRON	COUPLING	ASTM C564
SANITARY, WASTE, VENT (BELOW GROUND)	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
BUILDING SEWER	ALL	CAST IRON	HUB AND SPIGOT EXTRA-HEAVY	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
STORM (ABOVE GROUND)	ALL	CAST IRON	HUBLESS / HUB AND SPIGOT	ASTM A74 ASTM A888 CISPI 301 / 310	CAST IRON	LEAD / OAKUM	ASTM B29
			SCHEDULE 40 / SERVICE		CAST IRON	COUPLING	ASTM C564
NATURAL GAS	≤ 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	THREADED	ASME B16.3
	> 4"	STEEL	SCHEDULE 40	ASTM A53 ASTM A106	MALLEABLE IRON	WELDED	ASME B16.3

NOTES:
1. INSTALL DUCTILE IRON PIPING UNDER BUILDING SLAB WITH RESTRAINED JOINSTS ACCORDING TO AWWA C600 AND AWWA M41.
2. INSTALL UNDERGROUND COPPER AND DUCTILE IRON PIPE IN PE ENCASEMENT ACCORDING TO ASTM A 674 OR AWWA C105/A21.5
3. DUCTILE IRON WATER SERVICE PIPING SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH AWWA C104.
4. WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL HAVE A WORKING PRESSURE RATING OF NOT LESS THAN 160 PSI AT 73.4 °F
5. ALL MEDICAL GAS PIPE SHALL BE MANUFACTURER CLEANED, PURGED, AND SEALED FOR MEDICAL GAS SERVICE, OR ACCORDING TO CGA G-4.1 FOR OXYGEN SERVICE. INCLUDE STANDARD COLOR MARKING "OXY", "MED", "OXY/MED", OR "ACR/MED" IN BLUE FOR TYPE L TUBE.



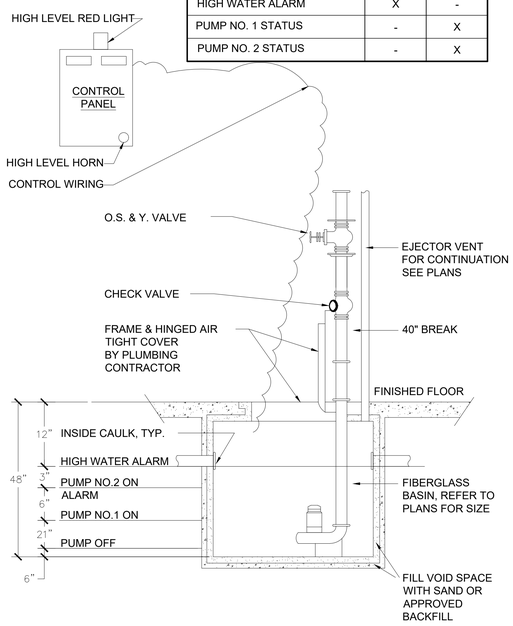
2 HOT WATER HEATER SCHEMATIC
SCALE: NONE



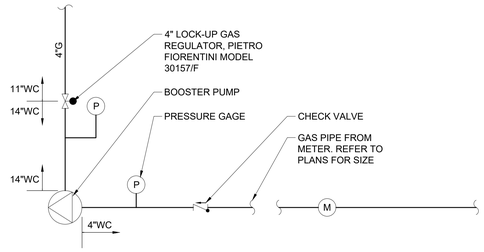
1.) STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
2.) STANCOR CHECK VALVE.
3.) STANCOR OIL MINDER 115V, 1Ø CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER,HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
4.) JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED; 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE.
5.) ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6.) OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE.
7.) HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8.) PUMP ON FLOAT.
9.) PROVIDE (2) 25 FT LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

4 ELEVATOR SUMP PUMP DETAIL
SCALE: NONE

EJECTOR PIT POINTS LIST		
	INPUT	OUTPUT
PUMP NO. 1 START/STOP	-	X
PUMP NO. 2 START/STOP	-	X
HIGH WATER ALARM	X	-
PUMP NO. 1 STATUS	-	X
PUMP NO. 2 STATUS	-	X



3 DETAIL OF SUMP PUMP WITHIN SUMP PIT, CONTROLS DIAGRAM AND POINTS LIST
SCALE: NONE



1 GAS BOOSTER PUMP SCHEMATIC
SCALE: NONE

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P-702

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AP	ACCESS PANEL
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	COD	CABLE OPERATED DAMPER
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	ER	EXHAUST REGISTER
-	ESP	EXTERNAL STATIC PRESSURE
-	EWT	ENTERING WATER TEMPERATURE
-	FCU	FAN COIL UNIT
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	GPM	GALLONS PER MINUTE
-	HP	HORSE POWER
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	LWT	LEAVING WATER TEMPERATURE
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	MER	MECHANICAL EQUIPMENT ROOM
-	NIC	NOT IN CONTRACT
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RF-	RETURN FAN
-	RPM	REVOLUTIONS PER MINUTE
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TF-	TRANSFER FAN
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
	EX.	EXISTING TO REMAIN
	REL.	REMOVE AND RELOCATE
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
T	-	THERMOSTAT
C	-	CARBON DIOXIDE DETECTOR
SD	-	DUCT MOUNTED SMOKE DETECTOR
C / N	-	CARBON MONOXIDE / NOX SENSOR
	-	AIR INTO REGISTER
	-	POINT OF CONNECTION DISCONNECTION
	SR	SUPPLY REGISTER
	CD	1-WAY
CD		2-WAY
CD		2-WAY
CD		3-WAY
CD		4-WAY
RR/RG/ER		RETURN REGISTER/GRILLE/EXHAUST REGISTER
	-	SUPPLY DUCT UP
	-	SUPPLY DUCT DOWN
	-	RETURN DUCT UP
	-	RETURN DUCT DOWN
	-	TRANSITION FROM SQUARE TO ROUND DUCT
	-	TRANSITION
D	-	DUCT DROP
R	-	DUCT RISE
	-	SQUARE VANED ELBOW
	-	DUCT RISE
	-	DUCT DROP
	-	DUCT TRANSITION
	-	ALUMINUM DUCT
	AL	ACOUSTIC LINING
	FD/AD	FIRE DAMPER W/ ACCESS DOOR
	SD/AD	SMOKE DAMPER W/ ACCESS DOOR

SYMBOL	ABBREVIATION	DESCRIPTION
	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
	VD	VOLUME DAMPER
	AL	ACOUSTIC LINING
6x8	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
	FC	FLEXIBLE CONNECTION
	-	ALUMINUM DUCT
60 CFM	-	EXHAUST REGISTER
60 CFM	-	NEW CEILING DIFFUSER

COMMISSIONING NOTES

1. REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
2. PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
3. PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):

   THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
   - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
   - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
   - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
   - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
   - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS).
   - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
   - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
   - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUTS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
   - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
   - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
3. AFTER PRE-AFUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
   - ROOFTOP UNITS
   - DOAS UNITS
   - CONDENSING UNITS
   - VRF SYSTEMS
   - PUMPS
   - AIR HANDLERS
   - CONTROL DAMPERS AND CONTROL VALVES
   - AUTOMATIC CONTROLS
4. AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
5. PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
6. IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
   - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
   - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
   - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
   - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
   - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
   - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
   - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

GENERAL NOTES

1. CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
4. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
5. ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
6. DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
7. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
8. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
9. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
10. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 4'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS. THERMOSTATS SHALL BE LOCATED IN AN ACCESSIBLE LOCATION.
11. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
12. THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
13. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING, SPRINKLER PIPING, STRUCTURAL, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
14. ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
15. DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
16. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
17. THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
19. WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
20. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
21. ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
22. COORDINATE DUCTWORK AND PIPING PENETRATIONS THRU FLOORS/SLABS, WALLS, AND ROOF WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
24. ALL DUCTWORK SHALL CONNECT TO EQUIPMENT WITH FLEXIBLE CONNECTIONS.
25. CONTRACTOR TO VERIFY ALL REFRIGERANT PIPE ROUTING AND SIZING WITH MANUFACTURING FOR AC, AH, AND VRF UNIT SYSTEMS. IF MAXIMUM LENGTH OF PIPE (AS DETERMINED BY MANUFACTURER) DOES NOT ALLOW ROUTING AS SHOWN, CONTRACTOR TO ALERT THE ARCHITECT AND ENGINEER SO THAT AN ALTERNATIVE MAY BE PROPOSED.
26. BUILDING LOADS HAVE BEEN CALCULATED USING AN APPROVED COMPUTATIONAL PROGRAM.

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

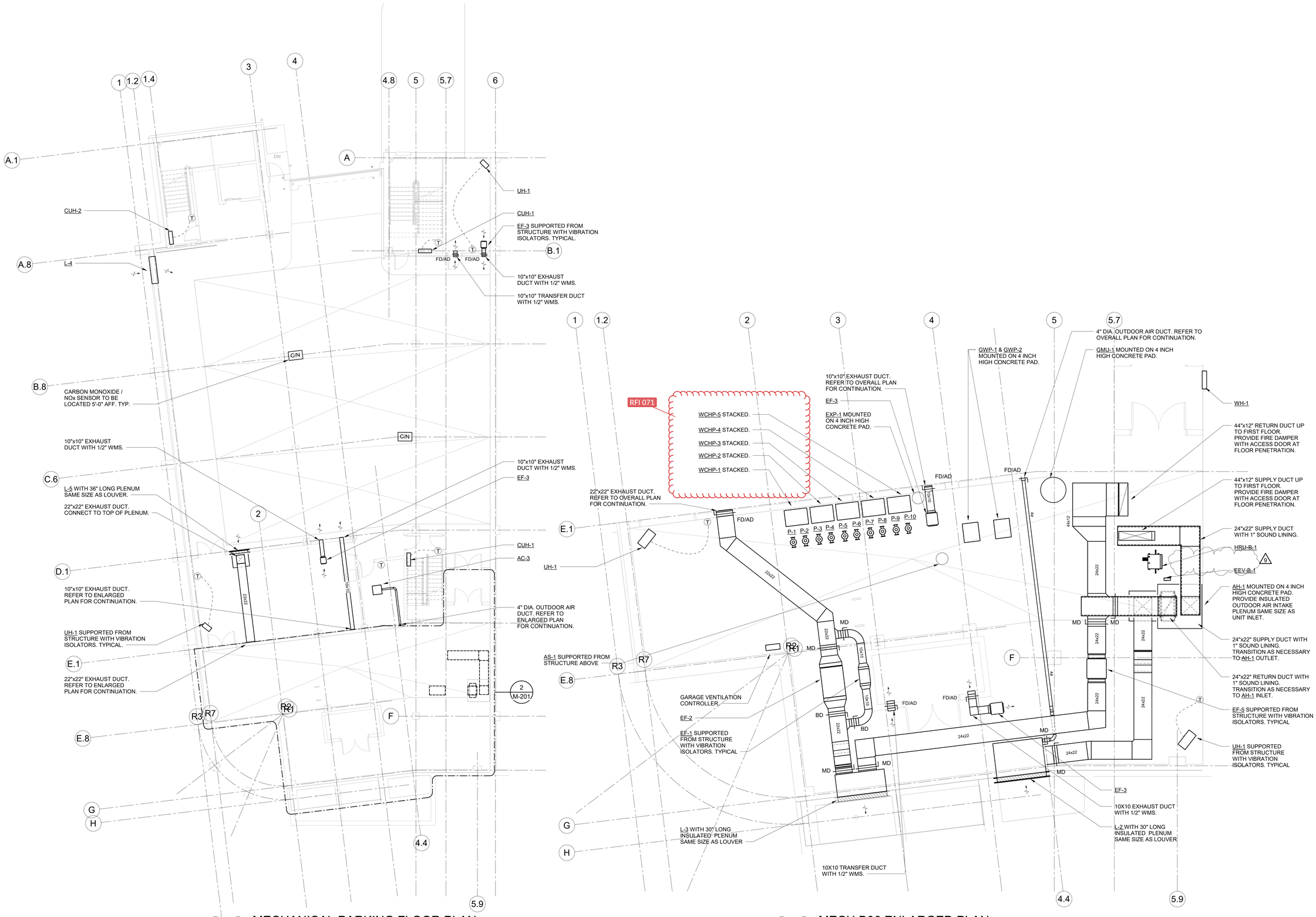
Sheet Title

MECHANICAL SYMBOLS, ABBREVIATIONS, & NOTES

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-001



1 MECHANICAL PARKING FLOOR PLAN

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

NORTH

NOTES:

1. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

2 MECH B06 ENLARGED PLAN

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

NORTH

NOTES:

1. ROUTE ALL DUCTWORK AND PIPING AS HIGH AS POSSIBLE

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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

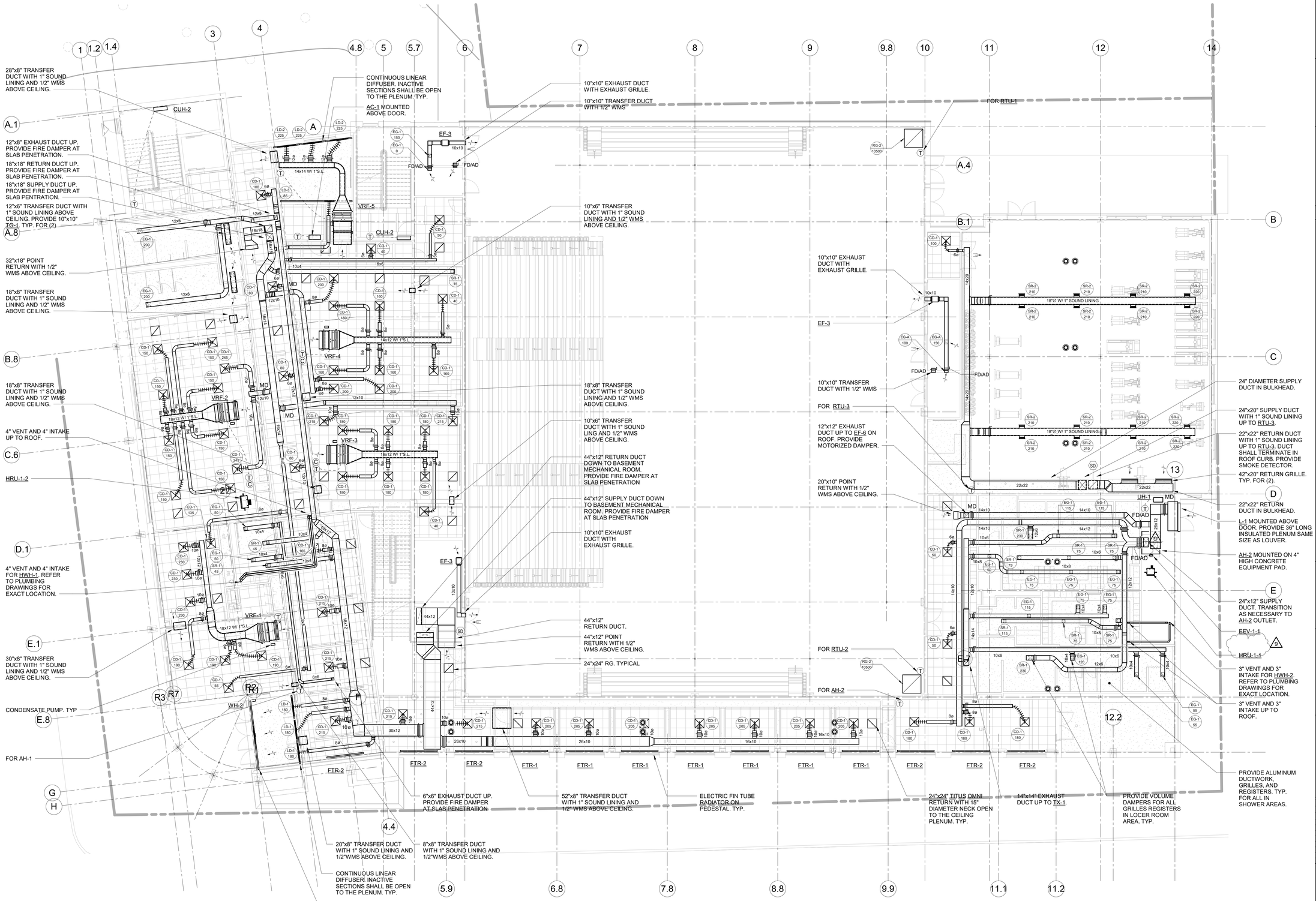
Sheet Title

MECHANICAL PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-201



MECHANICAL FIRST FLOOR PLAN

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

NOTES:

1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SIZED RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS.
4. ALL WALL MOUNTED GRILLES SHALL BE MOUNTED ONE CMU BLOCK ABOVE DOOR. CONTRACTOR SHALL COORDINATE LOCATION WITH FINAL CMU BLOCK LAYOUT.

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL FIRST FLOOR PLAN

Job No: NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

M-202

14"x6" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING.

18"x18" SUPPLY AND RETURN DUCT DOWN IN CHASE.

18"x18" SUPPLY AND RETURN DUCT UP TO DOAS-1 ON ROOF.

12"x8" EXHAUST DUCT DOWN IN CHASE.

12"x8" EXHAUST DUCT UP TO TX-3 ON ROOF.

32"x8" TRANSFER DUCT WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

54"x22" RETURN DUCT UP TO RTU-1 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

4" VENT AND 4" INTAKE FOR HWH-3. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION.

12"x6" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. PROVDE 10x10 TG-1 GRILLES. TYP. FOR (2).

HRU-2-4

AC-3 MOUNTED ABOVE DOOR

10"x10" EXHAUST DUCT UP TO EF-4 ON ROOF. TRANSITION AS REQUIRED TO UNIT INLET.

FOR RTU-7

HRU-2-1

40"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-7 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

40"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-7 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

HRU-2-2

26"x12" SUPPLY DUCT WITH 1" SOUND LINING UP TO DOAS-2 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

26"x12" RETURN DUCT WITH 1" SOUND LINING UP TO DOAS-2 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

34"x10" TRANSFER DUCT WITH 1" SOUND LINING ABOVE CEILING. TYP. OF (2).

HRU-2-6

FOR RTU-6

18"x16" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-6 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

50"x10" POINT RETURN SIWTH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

30"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-5 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB.

30"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-5 ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO UNIT OUTLET.

32"x32" SUPPLY DUCT UP TO RTU-1 ON ROOF.

LINEAR SUPPLY DIFFUSER ACTIVE AND INACTIVE SECTIONS IN VIEWING/CORRIDOR AREA SHALL HAVE WHITE TRIM. ACTIVE SECTION SHALL BE PAINTED WHITE INSIDE. TYP.

36" DIA. WITH 1" S.L.

32"x32" SUPPLY DUCT UP TO RTU-1 ON ROOF.

54"x22" RETURN DUCT UP TO RTU-2 ON ROOF. DUCT SHALL TERMINATE IN ROOF CURB. PROVIDE SMOKE DETECTOR.

RFI 033

SUPPLY AIR DUCTWORK ROUTED BETWEEN STRUCTURAL TRUSS. COORDINATE FINAL LOCATION/ELEVATION

36" DIA. WITH 1" S.L.

40"x10" POINT RETURN WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

LINEAR SUPPLY DIFFUSER INACTIVE SECTIONS SHALL BE OPEN TO THE CEILING. TYP.

4" STAINLESS STEEL VENT AND INTAKE DOWN TO FIRST FLOOR AND UP TO ROOF.

HRU-2-3

40"x10" SUPPLY DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. TRANSITION AS NECESSARY TO RTU-4 OUTLET.

40"x10" RETURN DUCT WITH 1" SOUND LINING UP TO RTU-4 ON ROOF. RETURN DUCT SHALL TERMINATE IN INUSLATED ROOF CURB .

40"x10" POINT RETURN WITH 1" SOUND LINING AND 1/2" WMS ABOVE CEILING.

FOR RTU-4

FOR RTU-5

HRU-2-5

6"x6" EXHAUST DUCT DOWN IN CHASE.

6"x6" UP TO TX-2 ON ROOF.

36" DIA. RETURN DUCT DOWN WITHIN CHASE TO 48"x48" POINT RETURN IN CEILING OF TRACK. TRANSITION TO 48"x48" RETURN DUCT FOUR (4) FEET ABOVE TRACK.

RTU-3. PROVIDE 24" HIGH INSULATED ROOF CURB WITH ISOLATION RAIL.

20"x24" SUPPLY DUCT WITH 1" SOUND LINING AND 22"x22" RETURN DUCT WITH 1" SOUND LINING.

20"x24" SUPPLY DUCT WITH 1" SOUND LINING AND 22"x22" RETURN DUCT WITH 1" SOUND LINING DOWN.

EF-6. PROVIDE 24" HIGH ROOF CURB.

3" STAINLESS STEEL VENT AND INTAKE. EXTEND 36" ABOVE FINISHED ROOF AND TERMINATE WITH GOOSENECK AND SCREEN.

TX-1. PROVIDE 24" HIGH ROOF CURB.

36" DIA. RETURN DUCT DOWN WITHIN CHASE TO 48"x48" POINT RETURN IN CEILING OF TRACK. TRANSITION TO 48"x48" RETURN DUCT FOUR (4) FEET ABOVE TRACK.

MECHANICAL SECOND FLOOR PLAN

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

NOTES:

1. DUCTED VRF INDOOR UNITS: PROVIDE 24" DEEP, ACOUSTICALLY LINED, FULL SIZED RETURN AIR DUCT AT RETURN AIR CONNECTION WITH FILTER BANK AND VOLUME OR MOTORIZED DAMPER WHERE CALLED OUT.
2. PROVIDE 'YOUNG' REGULATOR VOLUME DAMPERS IN ALL HARD CEILING AREAS FOR BALANCING PURPOSES.
3. ALL VRF UNITS SHALL BE HUNG FROM STRUCTURE ABOVE. PROVIDE VIBRATION ISOLATORS

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1	03/31/2020	50% DESIGN DEVELOPMENT

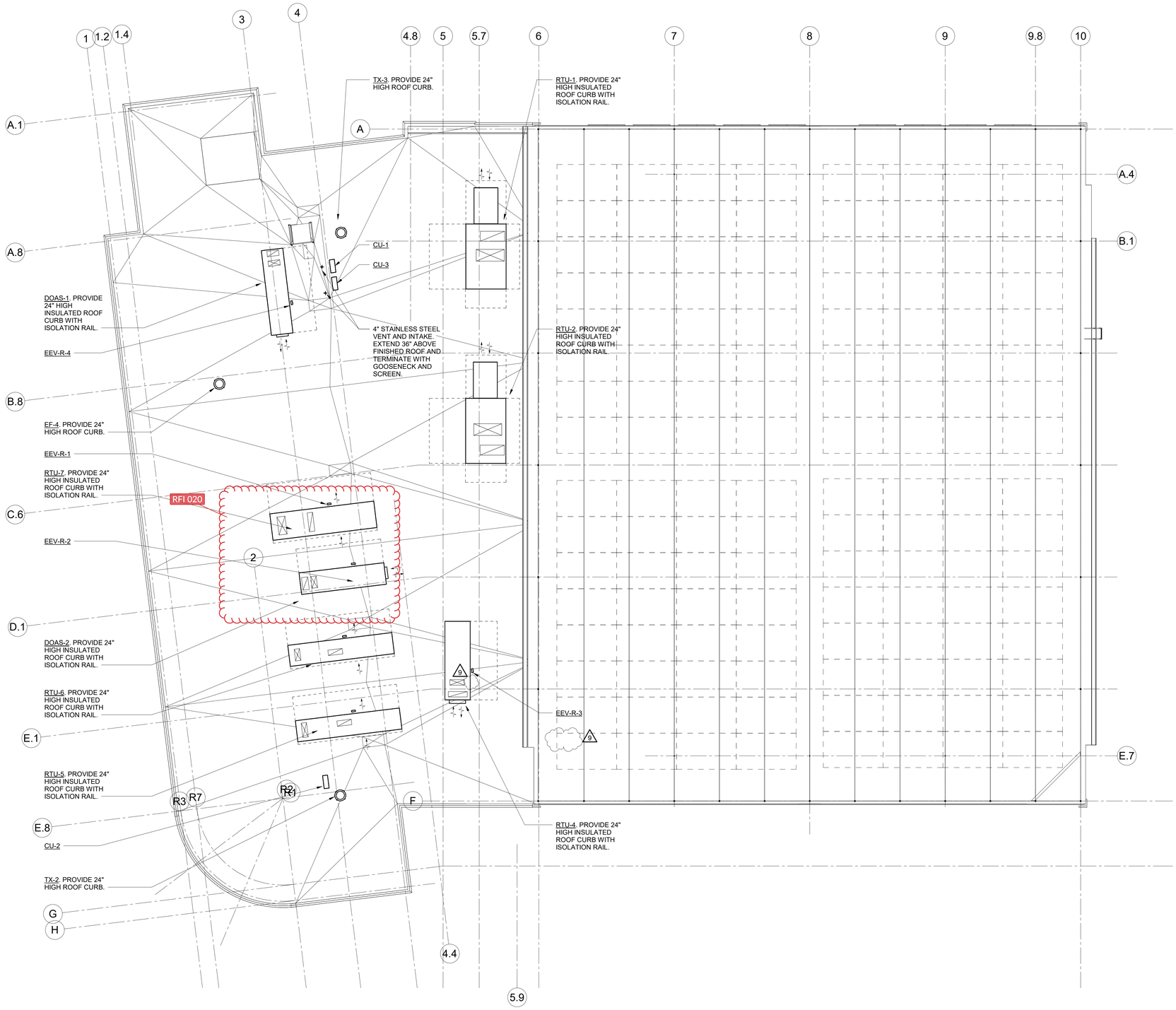
Sheet Title

MECHANICAL SECOND FLOOR PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-203



1 MECHANICAL ROOF PLAN

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

NORTH

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL ROOF PLAN

Job No. NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG

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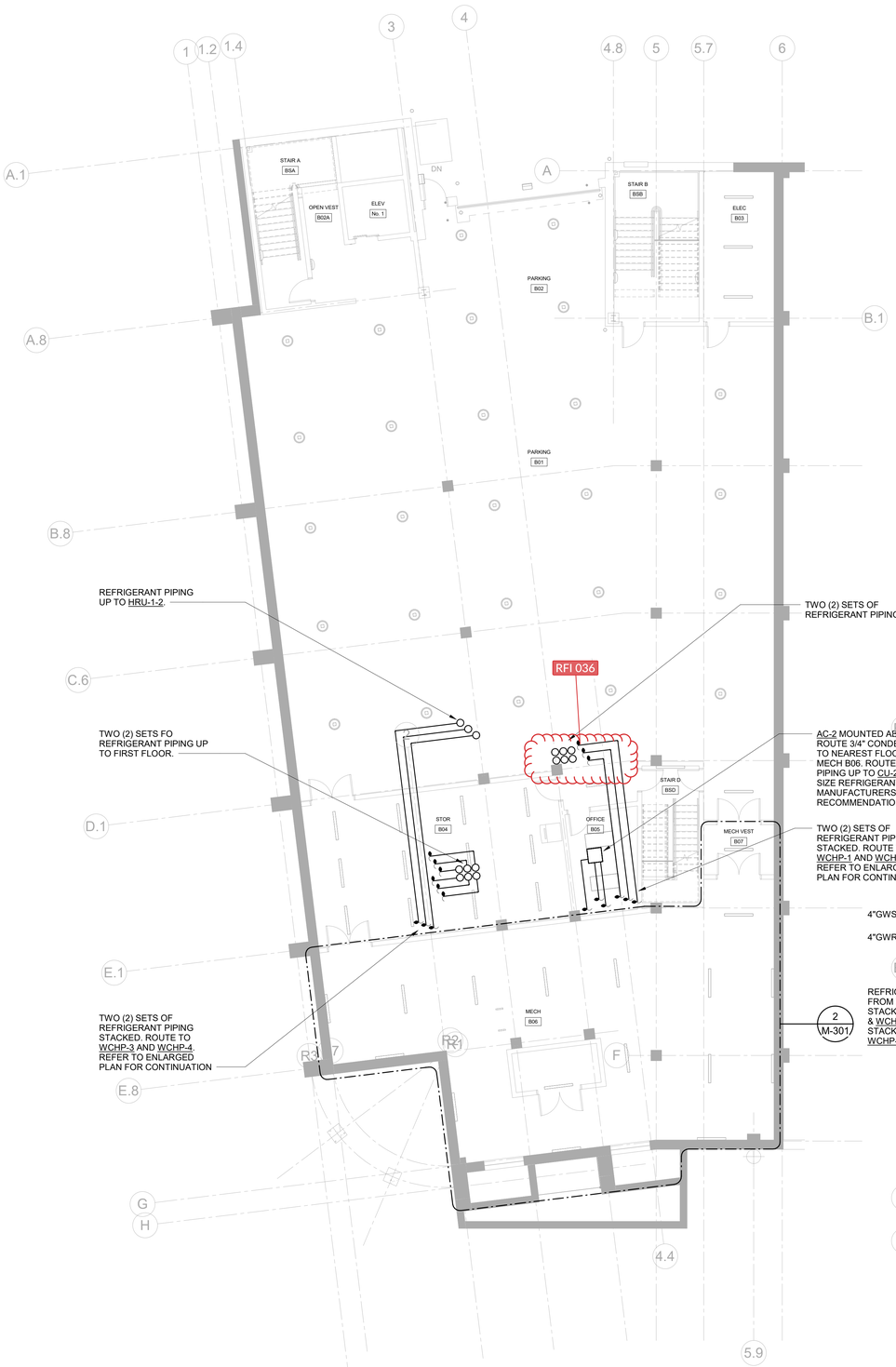
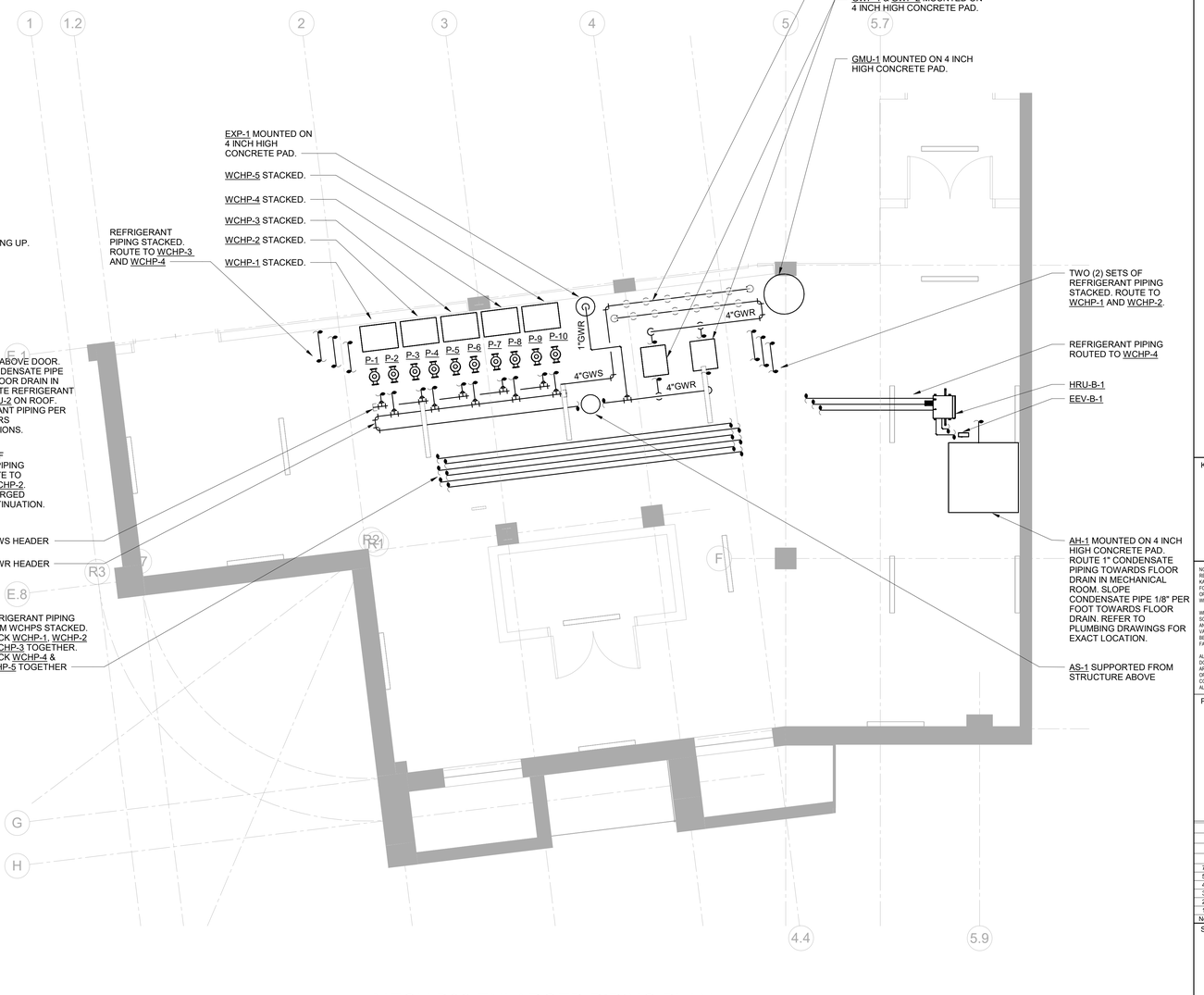
M-204





1 MECHANICAL PARKING FLOOR PIPING PLAN

NORTH

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

NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

2 MECH B06 ENLARGED PIPING PLAN

NORTH

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

NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

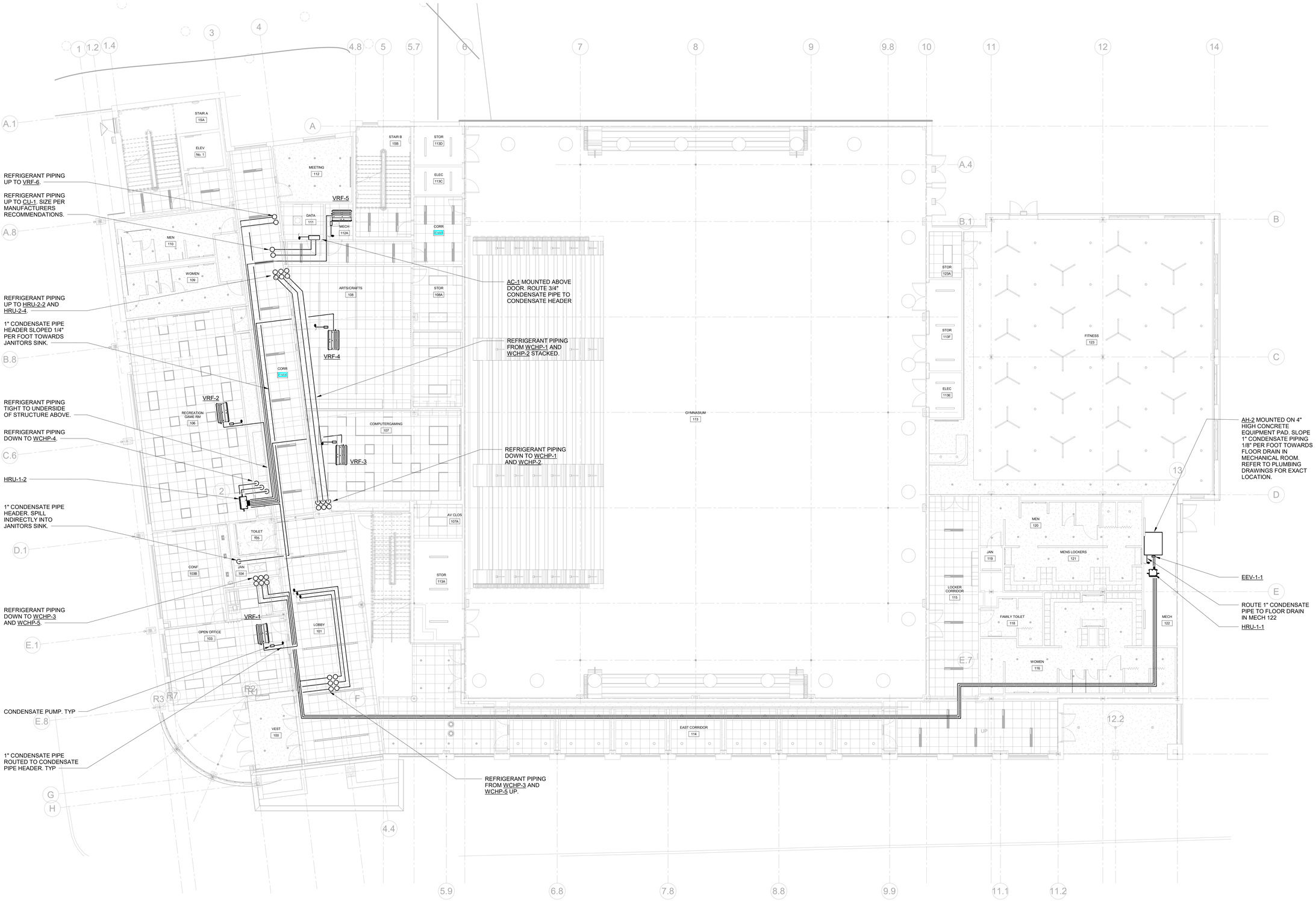
Sheet Title

MECHANICAL PARKING PIPING PLAN

Job No. NKGD0207.00	Date 02/16/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

M-301



MECHANICAL FIRST FLOOR PIPING PLAN

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

NORTH

NOTES:

1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

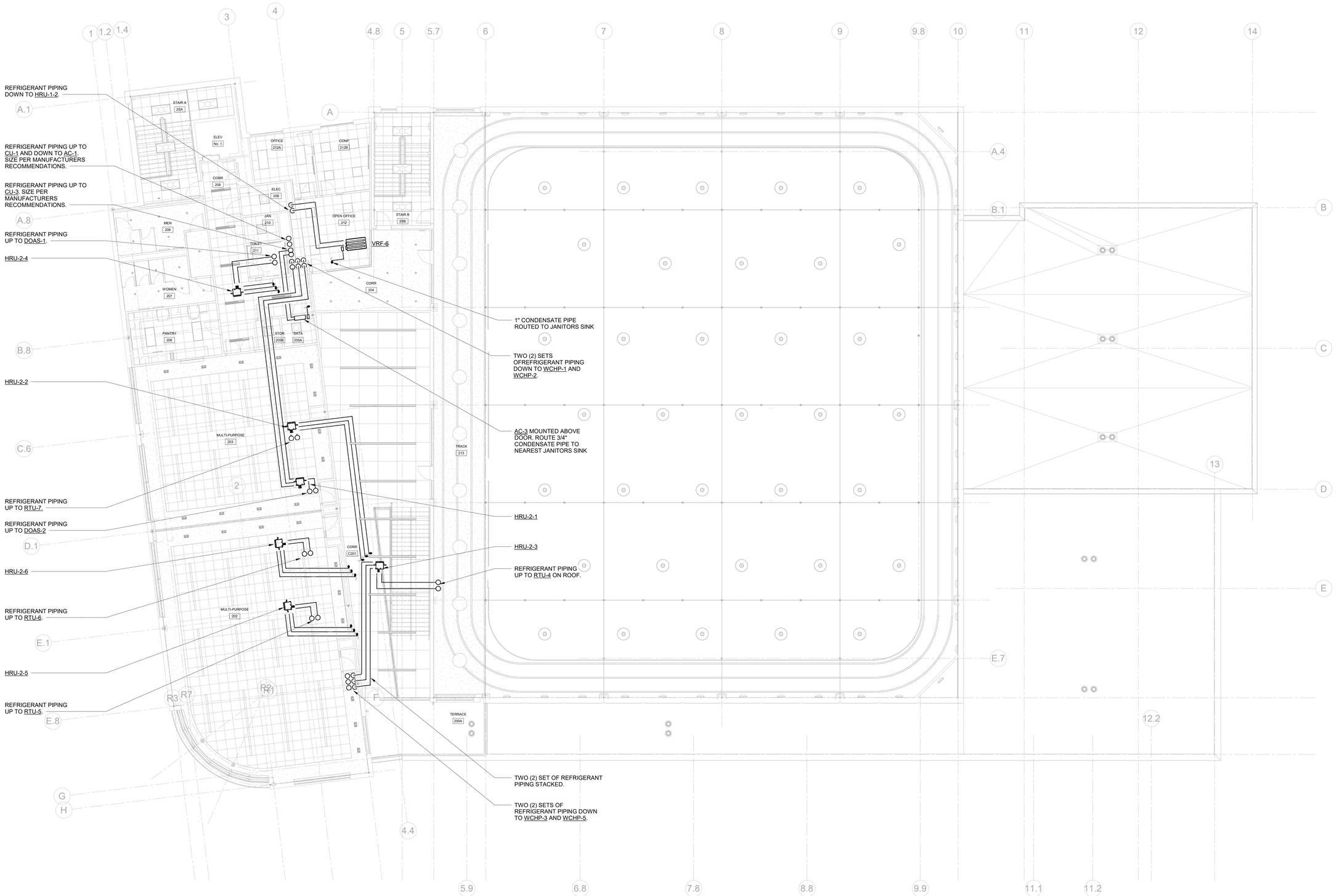
Sheet Title

MECHANICAL FIRST FLOOR PIPING PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-302



MECHANICAL SECOND FLOOR PIPING PLAN

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

NORTH

NOTES:

1. PROVIDE CONDENSATE PUMP FOR ALL VRF INDOOR DUCTED UNIT. ROUTE 1" CONDENSATE TO CONDENSATE HEADER SHOWN ON PLANS AND PROVIDE WYE FITTING AT CONNECTION POINT.
2. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

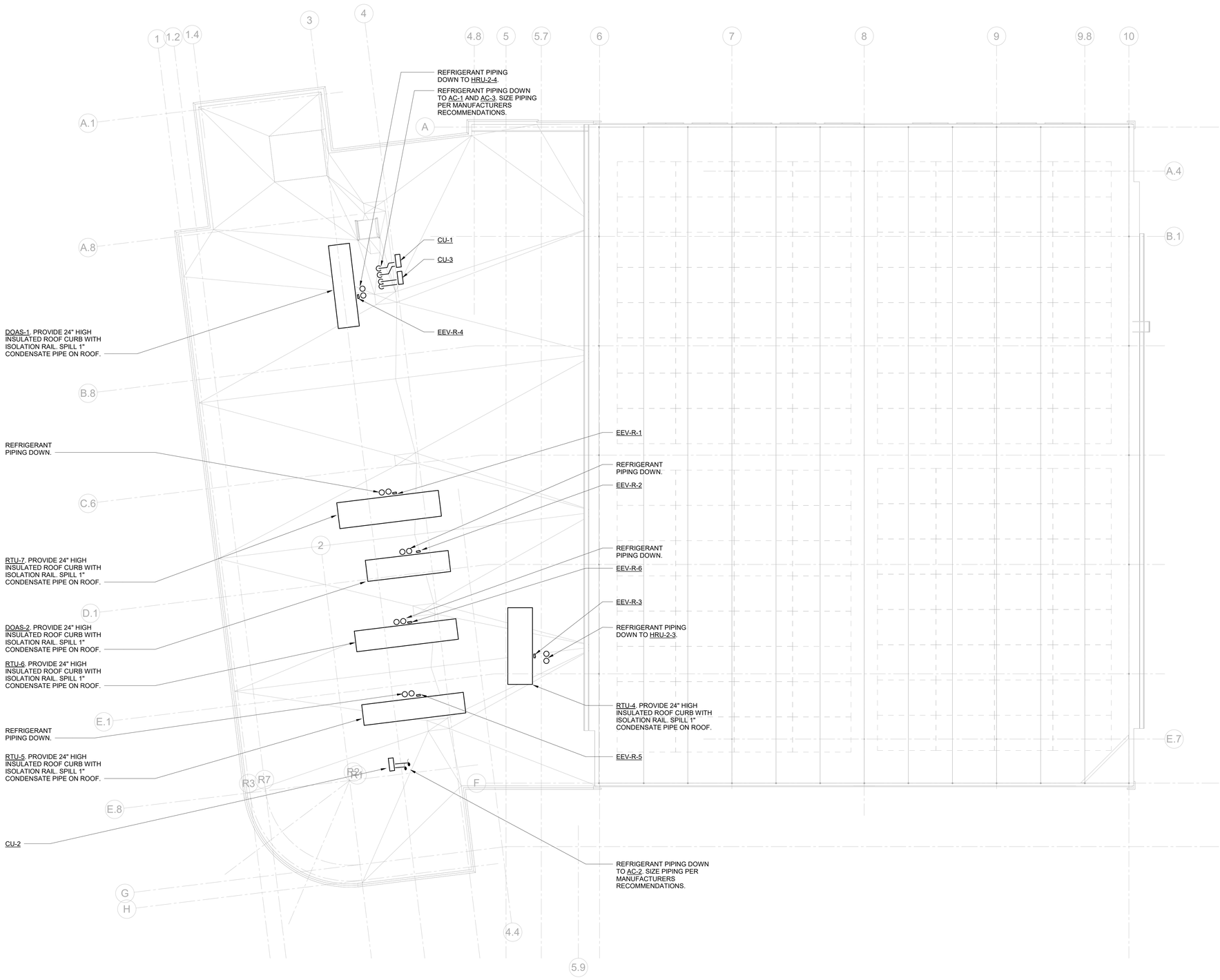
Sheet Title

MECHANICAL SECOND FLOOR PIPING PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-303



MECHANICAL ROOF PIPING PLAN

NORTH

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

NOTES:
1. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL ROOF PIPING PLAN

Job No.	Date
NKGD0207.00	02/16/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-304

8"SD ROUTED TOWARDS DETENTION SYSTEM. SLOPE 1/8" PER FOOT TOWARDS DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEM.

EXISTING GEOTHERMAL TEST WELL TO BE RE-USED. CONTRACTOR TO CONFIRM EXACT LOCATION IN FIELD.

8"SD AT INVERT 64.1. REFER TO M-101 FOR CONTINUATION.

2" GWS&R ROUTED UNDER TRENCH DRAIN TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM. ROUTE GEOTHERMAL PIPING THROUGH STRUCTURAL OPENINGS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. INVERT = 59.55.

1 ¼" GWS&R TO GEOTHERMAL WELL. TYPICAL.

2" GWS&R ROUTED TO MAIN DISTRIBUTION HEADER WITHIN MECHANICAL ROOM.TYPICAL FOR (7).

TRANSFORMER

GENERATOR

DUMPSTER

G1 G2 G3 G4 G5

F1 F2 F3 F4 F5

E1 E2 E3 E4 E5

D1 D2 D3 D4 D5

C1 C2 C3 C4 C5

B1 B2 B3 B4 B5

A1 A2 A3 A4 A5

2" GWS&R ROUTED BETWEEN DETENTION SYSTEM. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF DETENTION SYSTEMS. TYPICAL.

1 ½" GWS&R TO GEOTHERMAL WELL. TYPICAL.

GEOTHERMAL WELL, SPACED 20' CENTERLINE-CENTERLINE. TOP OF GEOTHERMAL WELLS SHALL BE BELOW DETENTION SYSTEM AT ELEVATION 59. TYPICAL FOR (35)

2" GWS&R ROUTED UNDER TRENCH DRAIN.

72 74 75 76 73 70

Double Yellow Line

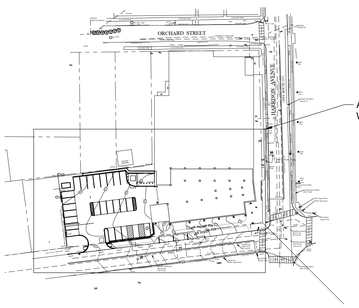
Stop Bar

2 MECHANICAL SITE PLAN

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

NORTH

NOTES:
1.) ALL GEOTHERMAL PIPING SHALL BE ROUTED BETWEEN DETENTION SYSTEM.
2.) ALL GEOTHERMAL WELLS SHALL BE UNDERNEATH DETENTION SYSTEM. TOP OF ALL GEOTHERMAL WELLS SHALL BE AT ELEVATION 59.
3.) DRAWING FOR REFERENCE ONLY AS PART OF PHASE 1.



1 KEY PLAN

SCALE: NONE

NORTH

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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

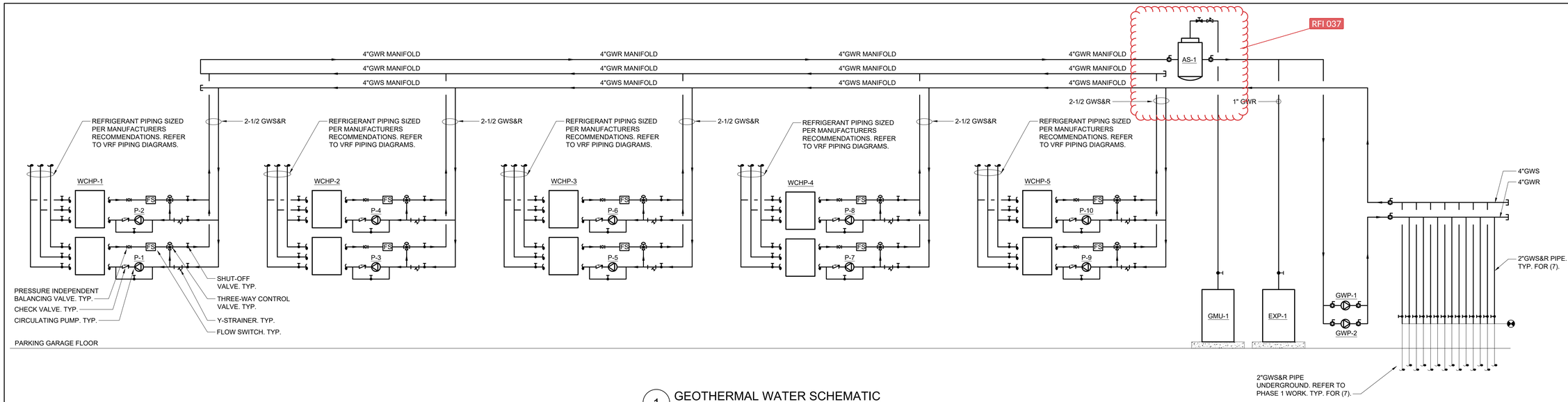
Sheet Title

MECHANICAL SITE PLAN

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-401

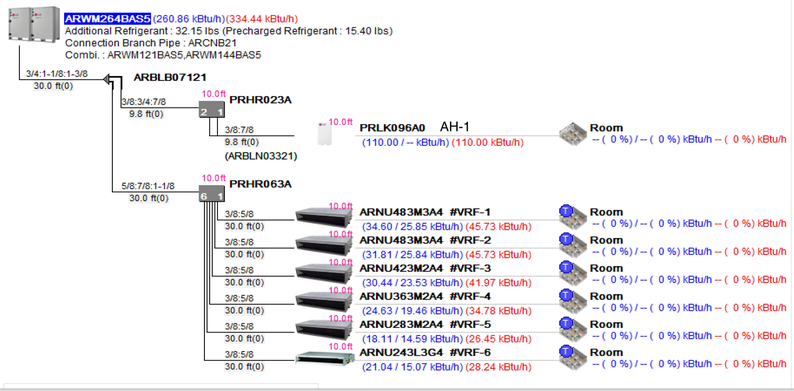


1 GEOTHERMAL WATER SCHEMATIC

SCALE: NTS

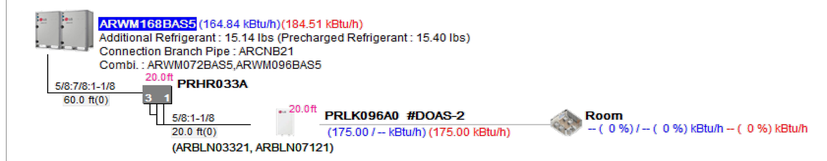
NOTES:
1. REFRIGERANT PIPING TO BE SIZED PER MANUFACTURERS RECOMMENDATIONS. REFER TO VRF PIPING DIAGRAMS FOR ADDITIONAL INFORMATION.
2. PROVIDE SHUT-OFF VALVES ON REFRIGERANT PIPING UPSTREAM AND DOWNSTREAM OF ALL EQUIPMENT FOR ISOLATION PURPOSES.

WCHP-4 TREE DIAGRAM

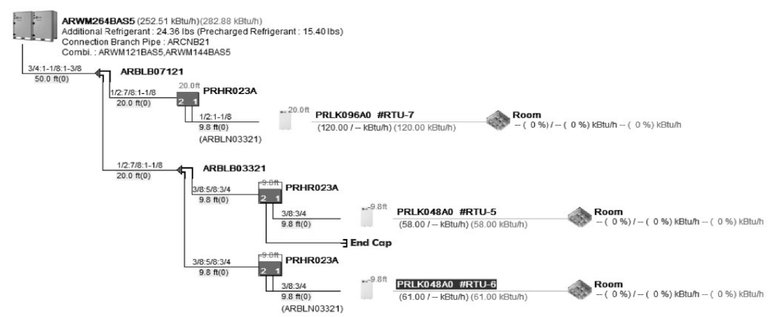


WCHP-1 TREE DIAGRAM

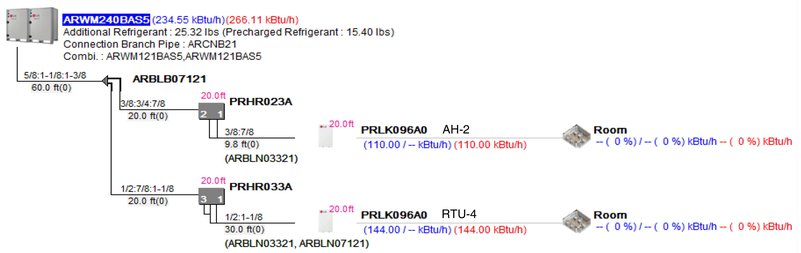
WCHP-2 TREE DIAGRAM



WCHP-5 TREE DIAGRAM



WCHP-3 TREE DIAGRAM



NOTES:
1. CONTRACTOR SHALL FIELD MEASURE AND DEVELOP FULL FULL VRF SYSTEM PIPING DIAGRAMS OF EACH OF THE SYSTEMS ABOVE INCLUDING LENGTHS WITH VENDOR FOR ENGINEER REVIEW.

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL SCHEMATICS

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

M-501

RETURN REGISTER / TRANSFER GRILLE SCHEDULE

DESIGNATION	RG-1 / TG-1 / EG-1		RG-2	
MODEL	3 FS		56 FL	
MAX NK VEL (FT/MIN)	500		-	
MAX NC	25		-	
CONSTRUCTION	ALUMINUM		ALUMINUM	
BORDER/FRAME	SURFACE MOUNTED		SURFACE MOUNTED	
DEFLECTION	45° FIXED		0° FIXED	
SPACING	3/4"		3/4"	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0-150	8x8	0 - 10,500	48x48
	151-250	10x10		
	251-350	12x12		
	351-725	18x18		
	726-950	22x22		
	951-1100	24x24		
	1101-1400	24x30		

NOTES:
1. RETURN REGISTERS ARE BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN AN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. RETURN REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.

SUPPLY REGISTER SCHEDULE

DESIGNATION	SR-1		SR-2		SR-3	
MODEL	300RL		S300FS		DL	
MAX NK VEL (FT/MIN)	550		550		550	
MAX NC	25		25		25	
CONSTRUCTION	ALUMINUM		ALUMINUM		ALUMINUM	
BORDER/FRAME	SURFACE MOUNTED		SURFACE MOUNTED		SURFACE MOUNTED	
DEFLECTION	DOUBLE		DOUBLE 22.5°		-	
SPACING	3/4"		3/4"		-	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0-200	8x8	0-170	14x6	800-1000	36x8
	201-300	10x10				
	301-500	12x12				
	501-850	16x16				
	851-1100	18x18				
	1101-1700	22x22				
	1701-2000	24x24				

NOTES:
1. SUPPLY REGISTERS BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. SUPPLY REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
6. SR-2 AND SR-3 SHALL BE PROVIDED WITH AIR SCOOP DEVICE.

CEILING DIFFUSER SCHEDULE

DESIGNATION	CD-1	
MODEL	OMNI	
MAX CORE VEL (FT/MIN)	550	
MAX NC	25	
CONSTRUCTION	STEEL	
FRAME	LAY-IN	
DEFLECTION	4 WAY	
FACE SIZE	24x24	
	CFM RANGE	NOMINAL NECK SIZE
	0-100	6"
	101-200	8"
	201-350	10"
	351-450	12"
	451-600	14"
	601-700	15"

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE

INDOOR/OUTDOOR UNIT DESIGNATION	AC-1 / CU-1	AC-2 / CU-2	AC-3 / CU-3
MANUFACTURER	LG	LG	LG
NOMINAL COOLING CAPACITY (TONS)	1	1	1
NOMINAL COOLING CAPACITY (MBH)	12,000	12,000	11,100
NOMINAL HEATING CAPACITY AT 47°F (MBH)	12,000	12,000	14,000
NOMINAL HEATING CAPACITY AT 10°F (MBH)	9,640	9,640	11,900
SEER/EER	17 / 10.5	17 / 10.5	19.4 / -
HPSF	8.5	8.5	8.2
RS PIPE SIZE (IN)	3/8	3/8	3/8
RL PIPE SIZE (IN)	1/4	1/4	1/4
CONDENSATE DRAIN PIPE SIZE (IN)	5/8	5/8	5/8
ELECTRICAL DATA:			
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60
BREAKER SIZE (AMPS) AT OUTDOOR UNIT	10 / 15	10 / 15	12.3 / 15
INDOOR EVAPORATOR UNIT DATA			
LOCATION	DATA 111	DATA 205A	OFFICE B05
MODEL	LSN120HFV3	LSN120HFV3	LCN128HV4
HEIGHT x WIDTH x DEPTH (IN)	12.2 x 33 x 7.5	12.2 x 33 x 7.5	8.1 x 22.5 x 22.5
WEIGHT (LBS)	19.2	19.2	31
TYPE	WALL MOUNTED	WALL MOUNTED	CEILING CASSETTE
SUPPLY FAN AIRFLOW (CFM)	353	353	335
HP	0.1	0.1	0.1
OUTDOOR CONDENSING UNIT DATA:			
LOCATION	ROOF	ROOF	ROOF
MODEL	LSU120HFV3	LSU120HFV3	LUU120HV
HEIGHT x WIDTH x DEPTH (IN)	19.5 x 28.3 x 10.7	19.5 x 28.3 x 10.7	21.5 x 30.4 x 11.4
WEIGHT (LBS)	55.3	55.3	71
REFRIGERANT TYPE	R-410A	R-410A	R-410A

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
· 0° LOW AMBIENT CONTROLS.
· HARD WIRED REMOTE CONTROLLER
· WIND BAFFLE
2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, SUPPORTS, HANGERS, PADS, ETC. FOR INSTALLATION.
7. PROVIDE ACCESSORIES AS REQUIRED BY MANUFACTURER, WHICH MAY INCLUDE: LIQUID LINE SOLENOID, RELAYS, FILTERS, ETC.

VARIABLE REFRIGERANT FLOW - WATER COOLED CONDENSING UNIT SCHEDULE

DESIGNATION	WCHP-1	WCHP-2	WCHP-3	WCHP-4	WCHP-5
DESCRIPTION	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
RATED COOLING CAPACITY					
BTUH/HR	168,000	168,000	239,000	264,000	264,000
EWT (°F)	85	85	85	85	85
LWT (°F)	94.2	94.2	94.8	95.1	94
GPM	45.7	45.7	60.8	65.9	65.9
RATED HEATING CAPACITY					
BTUH/HR	189,000	189,000	269,000	297,000	297,000
EWT (°F)	45	45	45	45	45
LWT (°F)	38.3	38.3	37.7	36.4	37.9
GPM	45.7	45.7	60.8	65.9	65.9
REFRIGERANT CHARGE					
TOTAL CHARGE (LBS)	30.6	30.6	40.8	47.6	42.9
FACTORY CHARGE (LBS)	15.4	15.4	15.4	15.4	15.4
ADDITIONAL REFRIGERANT (LBS)	15.2	15.2	25.4	32.2	27.5
ELECTRICAL DATA:					
VOLTS / Ø / Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MCA (MODULE 1 / MODULE 2)	13.8/19.4	13.8/19.4	27.7/27.7	27.7/32.7	27.7/32.7
MOCP (MODULE 1 / MODULE 2)	20/30	20/30	45/45	45/50	45/50
PHYSICAL:					
TONS	14	14	20	22	22
WEIGHT (LBS) (MODULE 1 / MODULE 2)	322/322	322/322	322/322	322/322	322/322
DIMENSIONS (WxHxD) (IN) (MODULE 1 / MODULE 2)	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5
PERFORMANCE:					
COOLING (BTU/H/W)	15.6	15.6	15.6	16	15.4
HEATING (BTU/H/W)	15.3	15.3	15.5	16.3	14.2
BASIS OF DESIGN	ARWM168BAS5	ARWM168BAS5	ARWM240BAS5	ARWM264BAS5	ARWM264BAS5

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE RUBBER VIBRATION ISOLATION FOR EACH UNIT.
3. WARRANTY SHALL BE 10 YEARS PARTS AND 10 YEARS ON THE COMPRESSORS.
4. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. PROVIDE ALL UNITS WITH RATED DISCONNECT SWITCH.

LINEAR DIFFUSER SCHEDULE

DESIGNATION	LD-1		LD-2		LD-3	
MODEL	FL-15		FL-20		FL-20	
MAX NC	25		25		25	
CONSTRUCTION	ALUMINUM		ALUMINUM		ALUMINUM	
FRAME	LAY-IN		LAY-IN		LAY-IN	
NUMBER OF SLOTS	1		1		1	
SLOT WIDTH (IN)	1.5		2		2	
LENGTH	48"		48"		24"	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0 - 140	6"	0 - 200	8"	0 - 110	8"
	141 - 170	8"	201 - 230	12"		

NOTES:
1. CEILING LINEAR SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
3. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
4. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS. PROVIDE PATTERN CONTROLLER.
5. DIFFUSERS SHALL BE INSTALLED WITH FACTORY-BUILT SUPPLY PLENUMS WITH MANUFACTURERS INTERNAL SOUND LINING. FIELD. INSULATED PLENUMS SHALL BE BASED ON TITUS FBPI.
6. COORDINATE DIFFUSER INSTALLATION WITH REFLECTED CEILING PLANS AND ALL OTHER TRADES.
7. INACTIVE DIFFUSER SECTIONS SHALL BE OPEN TO CEILING PLENUM AND PROVIDED WITH FACTORY LIGHT SHIELD.
8. PROVIDE CONCEALED CABLE OPERATED BALANCING DAMPERS THROUGH SLOT OPENINGS FOR ALL LINEAR DIFFUSERS WITH INACCESSIBLE VOLUME DAMPERS.

VARIABLE REFRIGERANT FLOW - INDOOR UNITS SCHEDULE

DESIGNATION	VRF-1	VRF-2	VRF-3	VRF-4	VRF-5	VRF-6
TONNAGE	4	4	3.5	3	2.5	2
TYPE	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED
QUANTITY	1	1	1	1	1	1
SUPPLY FAN AIRFLOW	1,191	1,191	1,076	845	676	710
SUPPLY FAN HP	2@0.6	2@0.6	2@0.6	2@0.6	0.9	0.6
ESP (IN WC)	0.6	0.6	0.6	0.6	0.6	0.6
COOLING PERFORMANCE						
TOTAL (BTUH)	34.6	31.8	30.5	24.7	18.2	21
SENSIBLE (BTUH)	25.9	25.9	23.6	19.5	14.6	15
EAT (DB / WB)	74.8 / 62.7	72.7 / 61	73.6 / 61.7	73 / 61.2	72.3 / 60.6	74.8 / 62.7
LAT (DB)	55.6	53.5	54.3	52.6	53.2	56
HEATING PERFORMANCE						
TOTAL CAPACITY (BTUH)	45.8	45.8	42	34.8	26.5	28.3
EAT (DB)	68	68	68	68	68	68
LAT (DB)	102.4	102.4	103	104.9	103.1	103.7
ELECTRICAL DATA:						
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
MCA	3.1	3.1	2.9	2.9	2.9	1.2
MOCP	15	15	15	15	15	15
WEIGHT (LBS)	96.1	96.1	86.2	86.2	86.2	60
DIMENSIONS (WxHxD) (IN)	49.5x14.5x27.5	49.5x14.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x7.5x27.5
MODEL	ARNU483M3A4	ARNU483M3A4	ARNU423M2A4	ARNU363M2A4	ARNU283M2A4	ARNU243L3G4

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE DUCTED UNITS WITH CONDENSATE PUMP. REFER TO M-601 FOR CONDENSATE PUMP SPECIFICATION.
3. PROVIDE UNITS WITH DISCONNECT SWITCH.

ELECTRONIC EXPANSION VALVE KIT

DESIGNATION	EEV-R-5, EEV-R-6	EEV-B-1, EEV-1-1, EEV-R-1, EEV-R-2, EEV-R-3, EEV-R-4
QUANTITY	2	6
MAX AH CAPACITY (MBH)	96	192
WEIGHT (LBS)	6.8	6.8
DIMENSIONS (WxHxD)	8.75 x 16 x 3.5	8.75 x 16 x 3.5
ELECTRICAL DATA:		
VOLTS / Ø / Hz	208/1/60	208/1/60
AMPS	0.1	0.1
BASIS OF DESIGN	PRLK048A0	PRLK096A0

NOTES:
1. UNITS BASED ON LG.
2. CONTRACTOR TO MAINTAIN A MAXIMUM DISTANCE OF 10 FEET BETWEEN EEV AND COMM KIT.
3. REFRIGERANT TYPE IS R410A

VARIABLE REFRIGERANT FLOW - ZONE HEAT RECOVERY UNIT SCHEDULE

DESIGNATION	HRU-2-1, HRU-2-2, HRU-2-4	HRU-B-1, HRU-1-1, HRU-2-3, HRU-2-5, HRU-2-6	HRU-1-2
NUMBER OF PORTS	3	2	6
QUANTITY	3	3	1
CAPACITY PER BRANCH (MBH)	60	60	60
WEIGHT (LBS)	37	33	60
DIMENSIONS (WxHxD) (IN)	19.25 x 8.75 x 19	19.25 x 8.75 x 19	31.25 x 8.75 x 19
ELECTRICAL DATA:			
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60
MCA	0.17	0.17	0.27
MOCP	15	15	15
BASIS OF DESIGN	PRHR033A	PRHR023A	PRHR063A

NOTES:
1. UNITS BASED ON LG.
2. PROVIDE DISCONNECT SWITCH.
3. INDIVIDUAL CONTROL AND CHANGEOVER FOR ONE GROUP OF INDOOR UNITS.
4. MAINTAIN REQUIRED CLEARANCES FOR UNIT.

ELECTRIC FIN TUBE RADIATORS

DESIGNATION	FTR-1	FTR-2
LOCATION	SEE PLANS	SEE PLANS
AREA SERVED	SEE PLANS	SEE PLANS
MODEL	CPH05A8125	CPH05A8188
LENGTH	8 FEET	8 FEET
NUMBER OF ELEMENTS	1	1
VOLTS/Ø/Hz	208/1/60	208/1/60
KW	1	1.5
AMPS	4.8	7.2

NOTES:
1. HEATERS BASED ON QMARK.
2. PROVIDE DPHOSA PEDESTAL. PEDESTAL SHALL BE 3-3/8" TALL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE DISCONNECT SWITCH FOR EACH HEATER
4. PROVIDE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
5. PROVIDE FACTORY INSTALLED LINEAR THERMAL CUT-OUT.
6. CABINET FINISH SHALL BE APPROVED BY ARCHITECT.
7. PROVIDE THERMOSTAT AT AT LOCATION SHOWN ON DRAWINGS.

ELECTRIC HEATER

DESIGNATION	UH-1	WH-1	WH-2	CUH-1	CUH-2
LOCATION	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
AREA SERVED	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
MODEL	MUH03-81	AWH3150F	AWH4404F	CU935	CU935
CFM	350	100	100	250	250
HP	0.01	0.1	0.1	0.1	0.1
FAN RPM	11000	-	-	-	-
VOLTS/Ø/Hz	208/1/60	120/1/60	208/3/60	208/3/60	208/3/60
KW	3	1.5	3	2	3
AMPS	14.5	12.5	14.4	6	9

NOTES:
1. HEATER BASED ON QMARK.
2. PROVIDE DISCONNECT SWITCH FOR EACH HEATER.
3. CABINET UNIT HEATERS SHALL HAVE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM, KEY LOCK ACCESS DOORS, UNIT MOUNTED THERMOSTAT WITH FAN ON-OFF-AUTO SWITCH AND TEMP SETTING, AND (2) SETS OF SPARE FILTERS FOR EACH UNIT.
4. CABINET UNIT HEATER FINISH SHALL BE APPROVED BY ARCHITECT.
5. UNIT HEATERS SHALL BE PROVIDED WITH 24 VOLT CONTROL TRANSFORMER, FACTORY HANGING KIT TO MOUNT TO SLAB/CEILING/WALL AS INDICATED ON DRAWINGS, AND FACTORY INSTALLED AUTOMATIC RESET LINEAR THERMAL CUT-OUT. CONTRACTOR SHALL COORDINATE SUPPORT FOR UNIT HEATERS FOR EACH CONDITION.
6. PROVIDE THERMOSTAT AT LOCATION SHOWN ON DRAWINGS.

EQUIPMENT NOTES

1. FIRE DAMPERS: SHALL BE RUSKIN MODEL DIBD-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING U.L. APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP.
2. VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5020-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC2. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.
3. MOTORIZED DAMPERS: SHALL BE LOW LEAKAGE TYPE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE LOW-LEAKAGE RATED TYPE. DAMPERS SHALL BE 120V/1ϕ/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.
   3.1. OUTSIDE AIR INTAKE & EXHAUST DAMPERS SHALL BE CLASS I MOTORIZED DAMPERS WITH MAXIMUM LEAKAGE RATE OF 4 CFM/SQFT @ 1.0" W.G.; TESTED IN ACCORDANCE WITH AMCA 500D. DAMPERS SHALL BE CONFIGURED TO CLOSE AUTOMATICALLY WHEN THE SYSTEMS OF THE SPACE SERVED ARE NOT IN USE.
4. CONDENSATE PUMP: SHALL BE LITTLE GIANT VCCA-20-P. PUMP SHALL BE HARD WIRED. PLENUM RATED AND SHALL BE ABLE TO PUMP 45 GPH AT 10 FEET OF HEAD. CONDENSATE PUMP SHALL BE 115/1/60, 1.5 AMPS.
5. FURNISH ALL REQUIRED PIPE AND ENCLOSURE SUPPORTS, BRACKETS, AND FASTENERS ETC. FURNISH VALVE ACCESS DOORS AND KNOCK OUT FOR ELECTRICAL RECEPTACLES. FURNISH END CAPS AND CORNER ANGLES, RUN ENCLOSURES CONTINUOUS WALL TO WALL. FINISH SHALL BE BAKED ON ENAMEL, SUBMIT COLOR CHART FOR REVIEW AND APPROVAL.
6. EXPANSION TANK EXP-1: TO BE AMTROL MODEL AX-40V, 21.7 GALLON TANK AND 11.3 GALLON ACCEPTANCE VOLUME, 30" HIGH, 16" DIAMETER AND HAVE A SHIPPING WEIGHT OF APPROXIMATELY 99 POUNDS .
7. AIR SEPARATOR AS-1: SHALL BE BELL & GOSSETT MODEL R-4F, 300 GPM MAXIMUM CAPACITY, 4" FLANGED INLET AND OUTLET, REMOVABLE GALVANIZED STEEL SYSTEM STRAINER, INTERNAL STAINLESS STEEL AIR COLLECTOR TUBE WITH NPT CONNECTION AND BLOWDOWN CONNECTION. THE AIR SEPARATOR MUST BE DESIGNED, CONSTRUCTED, AND STAMPED FOR 125 PSIG @ 350°F IN ACCORDANCE WITH SECTION VIII, DIVISION I OF THE ASME BOILER AND PRESSURE VESSEL CODE, AND REGISTERED WITH THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS. THE AIR SEPARATOR SHALL BE PAINTED WITH ONE SHOP COAT OF LIGHT GRAY AIR DRY ENAMEL.
8. GLYCOL MIXING TANK: GMU-1, SHALL BE WESSELS COMPANY MODEL GMPD-13050 WITH INDUSTRIAL GRADE GRADUATED POLYETHYLENE 50 GALLON TANK, OBSERVABLE FLUID LEVEL SCALE, & REMOVABLE LID. EQUIPPED WITH ONE (1) AUTOMATIC PUMPING ASSEMBLIES, RATED AT 1.8 GPM @ 70 PSI, 1/3 HP; FITTED WITH H-O-A CONTROLS, ADJUSTABLE PRV, PRESSURE GAUGE, HIGH LEVEL ALARM AND LOW-LEVEL ALARM WITH AUDIBLE AND VISUAL ALARMS. FURNISH DISCONNECT SWITCH FOR GMU PUMP FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR. ELECTRICAL: 120/1/60. PROVIDE BMS PROTOCOL FOR CONNECTION/MONITORING TO BMS.
9. PROPYLENE GLYCOL: SHALL BE BASED ON DOW DOWFROST HD INHIBITED PROPYLENE GYLCOL-BASED HEAT TRANSFER FLUID. THE MECHANICAL CONTRACTOR SHALL PROVIDE PROPYLENE GLYCOL FOR DUAL TEMPERATURE WATER SYSTEM AS NOTED ON PLANS (20% CONCENTRATION).
10. PIPE INSULATION JACKETING: SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTING THAT ARE EXPOSED IN ANY ROOM.
11. PIPE LABELS: SHALL BE SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATION AND OPTI-CODE FOR INDOOR APPLICATION. LETTERS AND ARROWS SHALL BE 2 1/2" HIGH AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. APPLY OVER INSULATION ONLY.
12. ALL HVAC EQUIPMENT SHALL HAVE 3" HIGH BLACK LAMACOID NAME PLATES WITH WHITE ENGRAVED LETTERS PERMANENTLY FASTENED TO EQUIPMENT. TYPICAL FOR All BOILERS, PUMPS, AIR HANDLERS, AC UNITS AND CONDENSERS.
13. REFRIGERANT PIPE INSULATION: SHALL BE AP ARMAFLEX PIPE INSULATION. 1" THICK UNSLIT, TO BE INSTALLED BEFORE FINAL CONNECTION. FIELD FABRICATE FITTING INSULATION WITH MITER-CUTS. ALL BUTT JOINTS AND SEAMS ARE TO BE SEALED WITH ARMSTRONG 520 ADHESIVE. ALL INSULATION INSTALLED OUTDOORS SHALL BE COATED WITH UV RESISTANT COATING/FINISH, AS PER THE MANUFACTURERS RECOMMENDATIONS.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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CONSTRUCTION DOCUMENTS

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Professional Seal

STATE OF NEW YORK · STEVEN ABBATISTA · LICENSED PROFESSIONAL ENGINEER · 077237

No.	Date	Issue
9	12/13/2024	PERMIT ADDENDUM
8	10/09/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL EQUIPMENT NOTES & SCHEDULES

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-601

100% ENERGY RECOVERY OUTDOOR AIR HANDLER

DESIGNATION	DOAS-1	DOAS-2
LOCATION	ROOF	ROOF
AREA SERVED	SEE PLANS	SEE PLANS
MANUFACTURER	VTS AMERICA INC.	VTS AMERICA INC.
MODEL	AVS020-R-FRMCHVE	AVS020-R-FRMCHVE
WEIGHT OF UNIT (LBS)	1,770	1,770
DIMENSION (WxHxD) (IN)	47 x 54 x 189	47 x 54 x 189
OUTSIDE AIR (CFM)	2,000	2,010
SUPPLY FAN:		
CFM	2,000	2,010
ESP/TSP (IN H_2O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	2	2
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	8.3 / 15
EXHAUST FAN:		
CFM	2,000	2,010
ESP/TSP (IN H_2O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	1.5	1.5
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	5.6 / 15	5.6 / 15
COOLING PERFORMANCE:		
E.A.T (DB / WB)	80.2 / 65.8	80.2 / 65.8
L.A.T (DB / WB)	52.8 / 51.9	52.8 / 52.8
GROSS TOTAL CAPACITY (MBH)	82.4	175.6
GROSS SENSIBLE CAPACITY (MBH)	60.2	94.3
REHEAT CAPACITY (MBH)	48.6	48.9
REHEAT (DB / WB)	75 / 60.7	75.0 / 60.7
HEATING PERFORMANCE: HEAT PUMP		
E.A.T. / L.A.T. (DB)	54.2 / 70	54.1 / 70.0
HEATING CAPACITY (MBH)	34.7	35
HEAT ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)		
WINTER RETURN (EXHAUST AIR STREAM)	68 / 68	68 / 68
WINTER EXHAUST (EXHAUST AIR STREAM)	13.9 / 13.9	13.9 / 13.9
WINTER SUPPLY (SUPPLY AIR STREAM)	54.2 / 54.2	54.1 / 54.1
WINTER OUTDOOR AIR (OUTDOOR AIR STREAM)	0.0 / -1.0	0.0 / -1.0
SUMMER RETURN (EXHAUST AIR STREAM)	77 / 63	77 / 63
SUMMER EXHAUST (EXHAUST AIR STREAM)	91.2 / 75.4	91.2 / 75.4
SUMMER SUPPLY (SUPPLY AIR STREAM)	80.2 / 65.8	80.2 / 65.8
SUMMER OUTDOOR AIR (OUTDOOR AIR STREAM)	95 / 78	95 / 78
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	0.8 / 15.0	0.8 / 15.0
LINES & FILTERS:		
CONDENSATE DRAIN LINE SIZE (IN)	1"	1"
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
• 100% OUTSIDE AIR UNIT
• DIRTY FILTER SENSOR
• EXTRA DRIVE BELT AND FILTER SET
• DISCONNECT SWITCH
• FREEZE-STAT
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
• TRIPLE POINT EXTERNAL POWER CONNECTION AT UNIT.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS·
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM
3. MOTOR STARTER & DISCONNECT SWITCH FOR EACH UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH UNIT SHALL BE FURNISHED WITH THE UNIT- MOUNTED LOCAL DISCONNECT SWITCH.
4. UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
5. PROVIDE UNIT WITH AIR SIDE ECONOMIZER AND HOT GAS REHEAT.
6. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

PACKAGED NATURAL GAS FIRED ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU-1	RTU-2	RTU-3
LOCATION	ROOF	ROOF	ROOF
AREA SERVED	GYM	GYM	FITNESS
MANUFACTURER	TEMPMASTER	TEMPMASTER	TEMPMASTER
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
NOMINAL CAPACITY (TONS)	25	25	10
WEIGHT OF UNIT (LBS)	2,485	2,485	1285
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	3,450	3,450	960
SUPPLY FAN:			
QUANTITY	1	1	1
TOTAL CFM	10,500	10,500	3,500
CFM FOR EACH FAN	10,500	10,500	3,500
ESP/TSP (IN H_2O)	1.5 / -	1.5 / -	1 / -
TYPE	BELT	BELT	BELT
HP FOR EACH FAN	10	10	3
CONTROL	VFD	VFD	VFD
COOLING PERFORMANCE:			
E.A.T (DB / WB)	76.9 / 64	76.9 / 64	76.3 / 63.4
L.A.T (DB / WB)	58.3 / 55.5	58.3 / 55.5	53.6 / 52.5
TOTAL CAPACITY (MBH)	268.1	268.1	110.3
SENSIBLE CAPACITY (MBH)	210.9	210.9	85.9
NUMBER OF COMPRESSORS	2	2	2
NUMBER OF CIRCUITS	2	2	2
NUMBER OF STAGES	4	4	2
REHEAT CAPACITY (MBH)	166.5	166.5	57.3
REHEAT (DB / WB)	72 / 62.4	72 / 62.4	71.8
HEATING PERFORMANCE: NATURAL GAS FURNACE			
E.A.T. / L.A.T. (DB)	62.6 / 91.2	62.6 / 91.2	64.9 / 103.5
HEATING CAPACITY INPUT (MBH)	400	400	180
HEATING CAPACITY OUTPUT (MBH)	324	324	146
INLET PRESSURE (IN WC)	7 - 14	7 - 14	7 - 14
ERV:			
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
WEIGHT OF UNIT (LBS)	1,230	1,230	318
OUTSIDE AIR CFM	3,450	3,450	960
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	75 / 62	75 / 62	75 / 62
EXHAUST (EXHAUST AIR STREAM)	80.4 / 67.61	80.4 / 67.61	79.2 / 66.4
SUPPLY (SUPPLY AIR STREAM)	76.9 / 64	76.9 / 64	76.3 / 63.4
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78	95 / 78	95 / 78
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	70	70	70
EXHAUST (EXHAUST AIR STREAM)	49	49	53.9
SUPPLY (SUPPLY AIR STREAM)	62.6	62.6	64.9
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0	0 / 0	0 / 0
LINES & FILTERS:			
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1
RETURN AIR FILTER TYPE	ANGLE FILTER 4" MERV 13	ANGLE FILTER 4" MERV 13	4" PLEATED MERV 13
QUANTITY AND SIZE	(9) 16x25	(9) 16x25	(4) 24x20
EFFICIENCY:			
EER	10	10	12
IEER	14.2	14.2	15
FURNACE EFFICIENCY	81%	81%	81%
ELECTRICAL DATA - RTU			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	143.7 / 175	143.7 / 175	44.9 / 50
ELECTRICAL DATA - ERV			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	23.5 / 25	23.5 / 25	8.3 / 10

NOTES:
1. PROVIDE RTU-1, RTU-2, RTU-3 WITH DUCT MOUNTED SMOKE DETECTORS.
2. PROVIDE RTU-1, RTU-2, RTU-3 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
4. PROVIDE RTU-1, RTU-2, RTU-3 WITH AIRSIDE ECONOMIZER AND POWER EXHAUST.
5. PROVIDE RTU-1, RTU-2, RTU-3 WITH HOT GAS REHEAT.
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
• PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• SINGLE POINT EXTERNAL POWER CONNECTION AT BOTH RTU ANDERV, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU-4	RTU-5	RTU-6	RTU-7
LOCATION	ROOF	ROOF	ROOF	ROOF
AREA SERVED	2ND FLOOR COMMON AREA	MULTIPURPOSE 202	MULTIPURPOSE 202	MULTIPURPOSE 203
MANUFACTURER	VTS	VTS	VTS	VTS
MODEL	AVS030	AVS020	AVS020	AVS040
NOMINAL CAPACITY (TONS)	-	-	-	-
WEIGHT OF UNIT (LBS)	1,991	1,238	1,238	1,924
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	1,680	0	0	0
SUPPLY FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H_2O)	1 / 2.8	1 / 2.23	1 / 2.23	1 / 2.05
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	3
CONTROL	VFD	VFD	VFD	VFD
RETURN FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H_2O)	1 / 2.3	1 / 1.73	1 / 1.73	1 / 1.8
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	2
CONTROL	VFD	VFD	VFD	VFD
COOLING PERFORMANCE:				
E.A.T (DB / WB)	78.5 / 64.7	72.4 / 60.9	73.7 / 61.9	73.5 / 61.3
L.A.T (DB / WB)	49 / 49	52.2 /	53.1 /	50.9 / 50
TOTAL CAPACITY (MBH)	120.3	57.2	61	75.1
SENSIBLE CAPACITY (MBH)	86.9	41.1	41.7	59.5
REHEAT CAPACITY (MBH)	76.2	44.3	42.6	62.5
REHEAT (DB / WB)	75 / 59.6	75	75	75
HEATING PERFORMANCE:				
E.A.T. / L.A.T. (DB)	61.6 / 80	68 / 80	68 / 80	68 / 80
HEATING CAPACITY OUTPUT (MBH)	54.5	23.9	23.9	31.8
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	77 / 63.5	N/A	N/A	N/A
EXHAUST (EXHAUST AIR STREAM)	92 / 76.1			
SUPPLY (SUPPLY AIR STREAM)	79.4 / 65.5			
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78			
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	68 / 67	N/A	N/A	N/A
EXHAUST (EXHAUST AIR STREAM)	10.6 / 10.6			
SUPPLY (SUPPLY AIR STREAM)	57.7 / 57.7			
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0			
LINES & FILTERS:				
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(3) 15.5x24.5	(1) 19.5x19.5, (1) 19.5x23.5	(1) 19.5x19.5, (1) 19.5x23.5	(6) 14.25x17.35
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:				
VOLTS / Ø / Hz	N/A	N/A	N/A	N/A
MCA / MOCP (AMPS)				
ELECTRICAL DATA - ENERGY WHEEL:				
VOLTS / Ø / Hz	208 / 3 / 60	N/A	N/A	N/A
MCA / MOCP (AMPS)	0.8 / 15			
ELECTRICAL DATA - SUPPLY FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20
ELECTRICAL DATA - EXHAUST FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20

NOTES:
1. PROVIDE RTU-4 AND RTU-7 WITH DUCT MOUNTED SMOKE DETECTORS.
2. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
4. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH AIRSIDE ECONOMIZER.
5. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH HOT GAS REHEAT.
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A. RTU-4, 5, 6, 7 SHALL HAVE MULTIPLE POINT EXTERNAL POWER CONNECTIONS AT UNIT.
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.

9

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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CONSTRUCTION DOCUMENTS

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No.	Date	Issue
9	12/13/2024	PERMIT ADDENDUM
8	10/09/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECHANICAL EQUIPMENT NOTES & SCHEDULES

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-602

FAN SCHEDULE

DESIGNATION	EF- 1	EF- 2	EF- 3	EF- 4	EF- 5	EF- 6	TX- 1	TX- 2	TX- 3
LOCATION	MECH B06	MECH B06	SEE PLANS	ROOF	MECH B06	ROOF	ROOF	ROOF	ROOF
AREA SERVED	PARKING B01	PARKING B01	SEE PLANS	PANTRY	FIRST FLOOR	LOCKER ROOM	LOCKER ROOM	TOILET 105 JAN 104	FIRST FLOOR BATHROOMS
MODEL	XD100EC	XD200EC	SQ-90-VG	G-097-VG	SQ-160-VG	G-095-VG	G-140-VG	G-097-VG	G-098-VG
CFM	500	3400	250	265	2700	650	1150	100	400
BHP	0.127	0.662	0.02	0.11	0.51	0.13	0.3	0.03	0.14
HP	1/4	1	1/10	1/4	3/4	1/6	1/2	1/4	1/4
FAN RPM	1800	910	1111	1636	1121	1577	1160	1121	1551
SP (IN H_2O)	0.5	0.5	0.25	0.53	0.5	0.5	0.82	0.5	0.82
VOLTS/Ø/Hz	115/1/60	208/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
INTERLOCK	-	-	-	-	-	-	-	-	-

NOTES:
1. FANS BASED ON GREENHECK. EF- 1 AND EF- 2 BASED ON ACME.
2. FURNISH MOTOR STARTERS AND DISCONNECT SWITCHES FOR EACH FAN.
3. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS.
4. SEE PLAN FOR INLET AND DISCHARGE ORIENTATION.
5. PROVIDE BACKDRAFT DAMPER FOR EF-4, EF-6, TX-1, TX-2, TX-3.

PUMP SCHEDULE

DESIGNATION	GWP-1 / 2	P-1, 2, 3, 4, 5, 6, 7, 8, 9, 10
LOCATION	MECH B06	MECH B06
SYSTEM SERVED	GEOTHERMAL WELLS	WCHP'S
ARRANGEMENT	INLINE	INLINE
MANUFACTURER	TACO	TACO
TYPE	VERTICAL, SPLIT COUPLED	CIRCULATING
MODEL	SKS3006D	IL132
IMPELLER DIA. (IN.)	6.25	-
GPM	230	36
TOTAL DYNAMIC HEAD (FT H_2O)	80	20
RPM	3500	1725
NPSH (FT. H_2O)	12.2	-
MOTOR HP	15	1/2
VOLTAGE/Ø/Hz	208/3/60	120/1/60
STARTER TYPE	VFD	-
STARTER LOCATION	INTEGRAL	-
DISCONNECT SWITCH AT PUMP (Y/N)	Y	Y
INTERLOCK	-	-

NOTES:
1. ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.
2. FLUID SHALL BE 20% PROPYLENE GLYCOL SOLUTION.
3. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
4. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED AND APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
5. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

LOUVER SCHEDULE

DESIGNATION	L-1	L-2	L-3	L-4	L-5
LOCATION	MECH 122	MECH B06	MECH B06	GARAGE	GARAGE
AREA SERVED	LOCKER ROOMS	SEE PLANS	SEE PLANS	GARAGE	GARAGE
MODEL	ESD-635	ESD-635	ESD-635	ESD-635	ESD-435
FREE AREA (SF)	3.7	20.4	20.4	8.7	8.1
MAXIMUM FACE VELOCITY (FPM)	500	500	700	500	700
DIMENSIONS (WxH)(IN)	76x18	66x72	66x72	72x32	44x48

NOTES:
1. LOUVERS BASED ON GREENHECK.
2. COORDINATE EXACT LOUVER SIZE WITH ARCHITECTURAL PLANS AND WITH WALL OPENING IN FIELD.
3. ALL LOUVERS SHALL BE STATIONARY, DRAINABLE BLADE.
4. CUSTOM COLORED LOUVERS SHALL BE SELECTED BY ARCHITECT. SUBMIT COLOR CHART FOR REVIEW.
5. FURNISH 1/2" GALVANIZED BIRD SCREEN FOR ALL LOUVERS.
6. BLANK OFF UNUSED SECTIONS OF LOUVERS WITH SHEET METAL PANELS. PAINT PANELS TO MATCH LOUVER AND INSULATE WITH 1" RIGID BOARD INSULATION.

9

AIR HANDLER SCHEDULE

DESIGNATION	AH-1	AH-2
LOCATION	MECH B06	MECH 122
AREA SERVED	2ND FLOOR COMMON AREA	MULTIPURPOSE 201
MANUFACTURER	VTS	VTS
MODEL	AVS040V	AVS020V
NOMINAL CAPACITY (TONS)	-	-
WEIGHT OF UNIT (LBS)	717	523
SUPPLY DUCT CONNECTION	TOP	TOP
RETURN DUCT CONNECTION	FRONT	FRONT
OUTSIDE AIR (CFM)	550	1,150
SUPPLY FAN:		
QUANTITY	1	1
TOTAL CFM	3,810	1,800
CFM FOR EACH FAN	3,810	1,800
ESP/TSP (IN H_2O)	1 / -	1 / -
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLUG
HP FOR EACH FAN	3	1.5
CONTROL	VFD	VFD
COOLING PERFORMANCE:		
E.A.T (DB / WB)	77.4 / 64.5	89.1 / 73.8
L.A.T (DB / WB)	55.8 / 54	55.2 / 55.2
TOTAL CAPACITY (MBH)	118.9	112.7
SENSIBLE CAPACITY (MBH)	90.4	67.6
REHEAT CAPACITY (MBH)	76.2	38.5
REHEAT (DB / WB)	75 / 59.6	75
HEATING PERFORMANCE:		
E.A.T. / L.A.T. (DB)	60 / 81	23 / 80
HEATING CAPACITY INPUT (MBH)	87.6	111.2
LINES & FILTERS:		
CONDENSATE DRAIN LINE SIZE (IN)	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(6) 14.25x17.35	(2) 19.5x19.5
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:		
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	11.3 / 20	5.6 / 15

NOTES:
1. PROVIDE AH-1 WITH DUCT MOUNTED SMOKE DETECTORS.
2. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.
3. PROVIDE AH-1 AND AH-2 WITH AIRSIDE ECONOMIZER.
4. PROVIDE AH-1 AND AH-2 WITH HOT GAS REHEAT.
5. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
• UNIT SHALL BE MOUNTED ON 4 INCH HIGH CONCRETE EQUIPMENT PAD. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.
7. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.

OUTDOOR AIR			
UNIT DESIGNATION	AREA SERVED	AREA (SF)	OUTDOOR AIR CFM
VRF-1 / DOAS-1	OPEN OFFICE 103	433	51
VRF-1 / DOAS-1	COPY/PRINT 103A	58	4
VRF-1 / DOAS-1	CONF 103B	320	132
VRF-2 / DOAS-1	RECREATION GAME ROOM 106	1,160	488
VRF-3 / DOAS-1	COMPUTER/GAMING 107	668	426
VRF-4 / DOAS-1	ARTS/CRAFTS 108	952	597
VRF-4 / DOAS-1	STOR 108A	146	11
VRF-5 / DOAS-1	MEETING 112	217	85
VRF-6 / DOAS-1	OPEN OFFICE 212	247	31
VRF-6 / DOAS-1	OFFICE 212A	152	24
VRF-6 / DOAS-1	CONF 212B	164	69
RTU-5 / DOAS-2	MULTIPURPOSE 201	930	463
RTU-6 / DOAS-2	MULTIPURPOSE 202	1,071	681
RTU-7 / DOAS-2	MULTIPURPOSE 203	1,353	788
RTU-7 / DOAS-2	PANTRY 206	207	74
AH-1	VEST 100	166	12
AH-1	LOBBY 101	1,539	228
AH-1	JAN 104	51	0
AH-1	TOILET 105	58	0
AH-1	CORR C101	898	67
AH-1	CORR C102	138	10
AH-1	CORR C103	143	11
AH-1	WOMEN 109	229	0
AH-1	MEN 110	227	0
AH-1	EAST CORRIDOR 114	915	70
RTU-4	VIEWING 200	979	1,451
RTU-4	CORR C201	344	26
RTU-4	CORR 204	733	55
RTU-4	STOR 205B	31	2
RTU-4	WOMEN 207	173	0
RTU-4	MEN 208	161	0
RTU-4	JAN 210	41	0
RTU-4	TOILET 211	59	0
RTU-3	FITNESS 123	3,268	1,100
RTU-3	STOR 123A	83	5
RTU-1 / RTU-2	GYM	13,725	6,900

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No.	Date	Issue
9	05/28/2025	BULLETIN 8
8	12/03/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUE FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

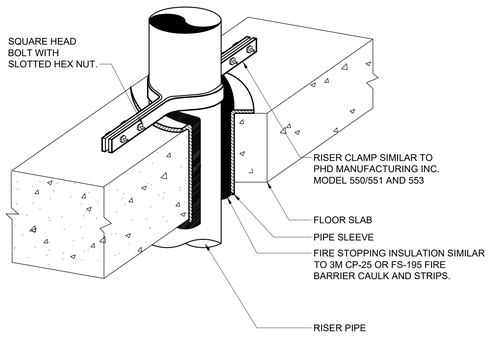
Sheet Title

MECHANICAL EQUIPMENT, NOTES & SCHEDULES

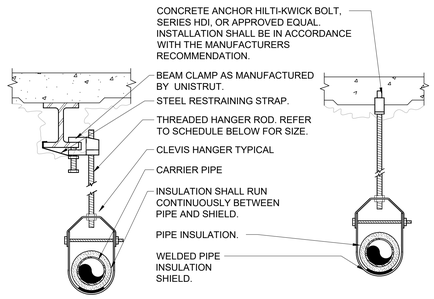
Job No.	Date
NKGD0207.00	02/25/2025
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-603



8 VERTICAL PIPE SUPPORT DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
7.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

6 PIPE HANGER DETAIL
SCALE: NONE

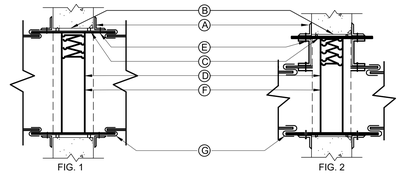


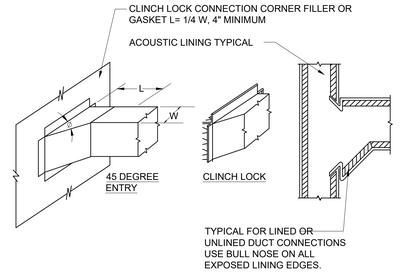
FIG. 1 FIG. 2

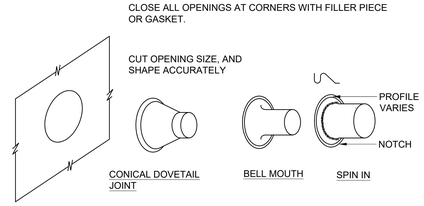
NOTES:

A.) RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
B.) CLEARENCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
C.) STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
D.) U.L. APPROVED FIRE DAMPER.
E.) SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
F.) SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
G.) CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.

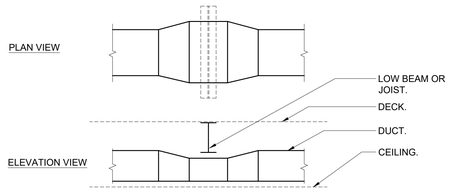
1.) FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
2.) CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
3.) PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
4.) FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.
5.) FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

4 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL
SCALE: NONE



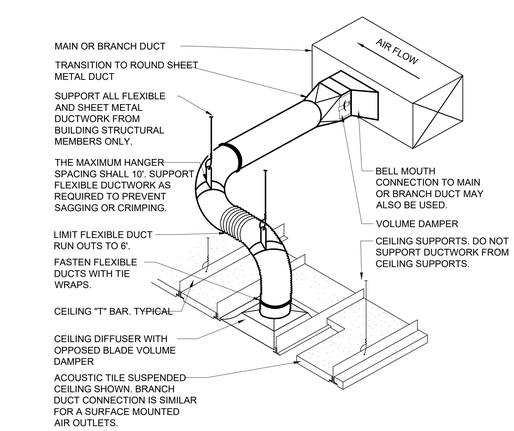


2 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE



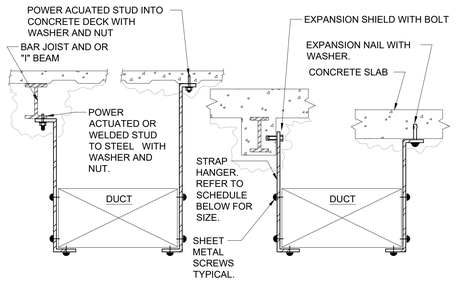
NOTES:
1.) WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
2.) REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
3.) INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
4.) USE SMACNA APPROVED TRANSITIONS.

7 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



NOTES:
1.) THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

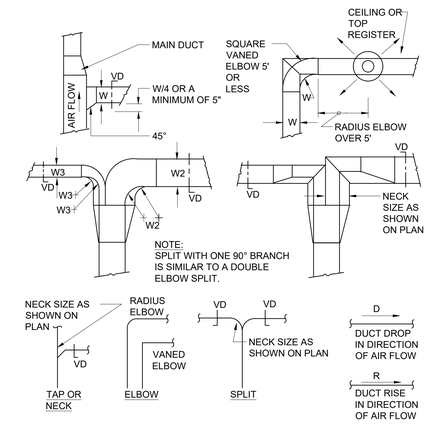
5 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



NOTES:
1.) FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
2.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
3.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

3 DUCT HANGER DETAIL
SCALE: NONE



NOTES:
1.) SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
2.) USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
3.) ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
4.) WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
5.) USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE - OFF DETAIL
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

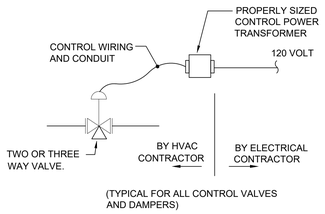
Sheet Title

MECHANICAL DETAILS

Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

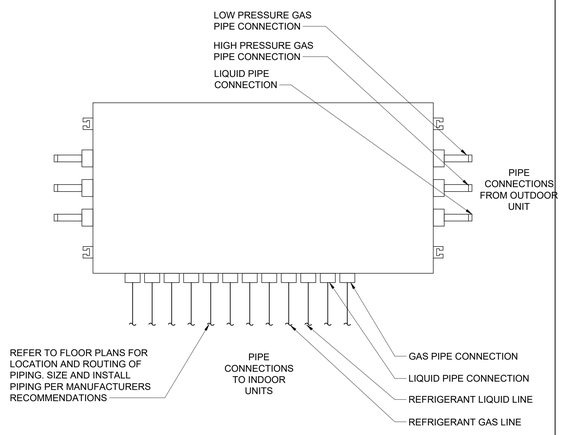
Sheet Number

M-701



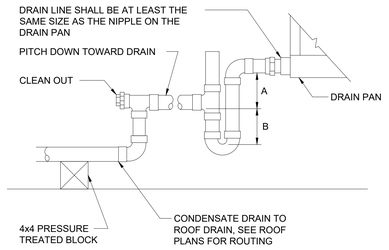
NOTE: MECHANICAL CONTRACTOR TO FURNISH MOTOR RATED TOGGLE SWITCH TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.

8 CONTROL VALVE WIRING SCHEME
SCALE: NONE



NOTES:
1.) PROVIDE ISOLATION VALVES ON ALL REFRIGERANT PIPING CONNECTED TO UNIT.

6 HEAT RECOVERY UNIT BOX DETAIL
SCALE: NONE

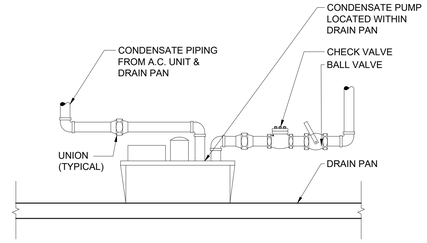


DESIGNER'S NOTE:

UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

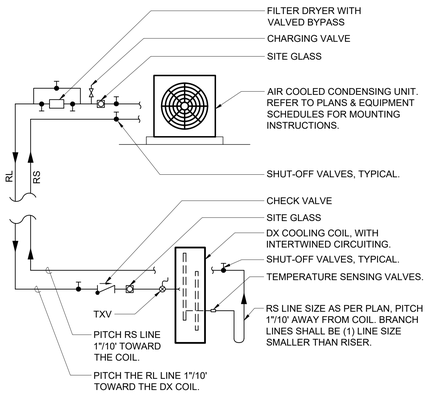
WHERE X = STATIC PRESSURE IN PAN

4 CONDENSATE DRAIN TRAP DETAIL
SCALE: NONE



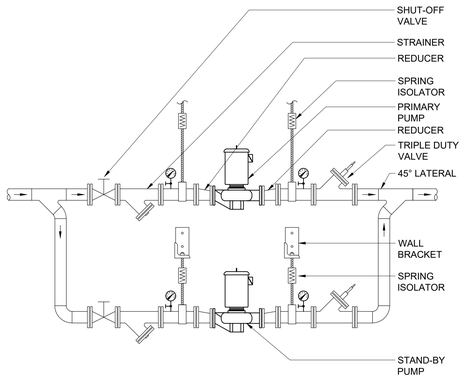
NOTE:
FIELD INSTALL CONDENSATE PUMP IN AC UNIT, MAKE ALL INTERNAL PIPE CHANGES AS REQUIRED.

2 CONDENSATE PUMP DETAIL
SCALE: NONE



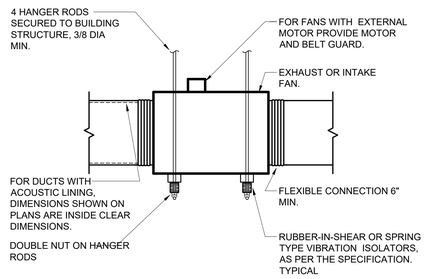
RFI 081

7 DUCTLESS DX SPLIT-SYSTEM AC UNIT PIPING SCHEMATIC
SCALE: NONE



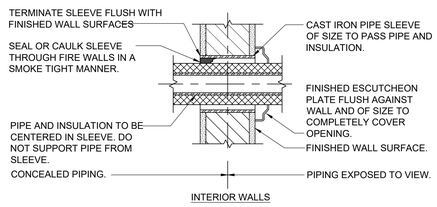
NOTES:
1.) HANG PRIMARY PUMP FROM BUILDING STRUCTURE WITH SPRING-TYPE VIBRATION ISOLATORS.
2.) HANG STAND-BY PUMP FROM BUILDING STRUCTURE OR SUPPORT FROM WALL BRACKETS SIMILAR TO F&M FIGURE #151.

5 IN-LINE PUMP DETAIL
SCALE: NONE



ALL DUCTWORK, PIPES AND CONDUIT SUPPORTED BY THE CEILING SLAB SHOULD USE HILTI HY-200 OR HVA ADHESIVE ANCHORS, DRILLED INTO THE SLAB

3 INLINE FAN DETAIL
SCALE: NONE



1 PIPE SLEEVES THROUGH WALL
SCALE: NONE

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1	03/31/2020	50% DESIGN DEVELOPMENT

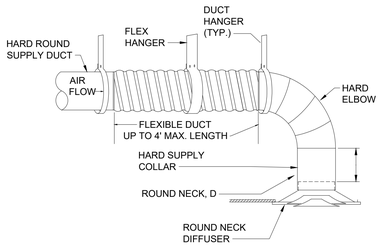
Sheet Title

MECHANICAL DETAILS

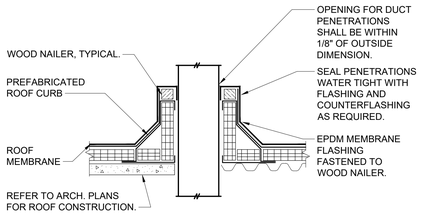
Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: HM / RG

Sheet Number

M-702

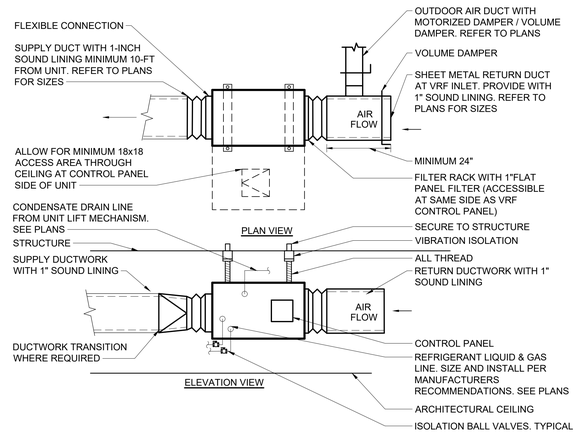


8 ROUND CONNECTION TO ROUND NECK DIFFUSER
SCALE: NONE

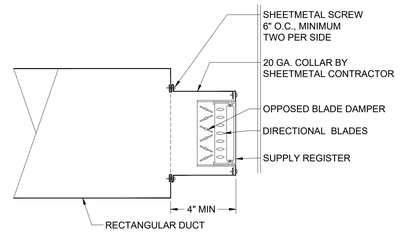


NOTES:
1. THIS DETAIL SHALL BE USED FOR ALL DUCT PENETRATIONS THROUGH ROOF, BOTH NEW AND EXISTING.
2. PREFABRICATED ROOF CURB SHALL BE OF PRIME 18 GAUGE GALVANIZED STEEL CONSTRUCTION WITH WELDED CORNERS AND 3" CANT FULLY MITERED WITH SEAMS JOINED BY CONTINUOUS WELDS. CURB SHALL BE FACTORY INSULATED WITH 1-1/2" THICK 3# DENSITY INSULATION AND ASSEMBLED WITH 2x2 WOOD NAILERS. DIMENSIONS OF ROOF CURB SHALL BE VERIFIED BY THIS CONTRACTOR PRIOR TO ORDERING BASED ON DIMENSIONS OF EXISTING UNITS. THIS CONTRACTOR SHALL COORDINATE HEIGHT OF ROOF CURB WITH GENERAL CONTRACTOR PRIOR TO ORDERING.
3. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

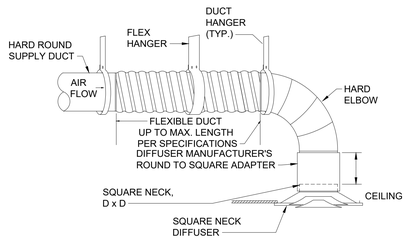
6 DUCT THROUGH ROOF DETAIL
SCALE: NONE



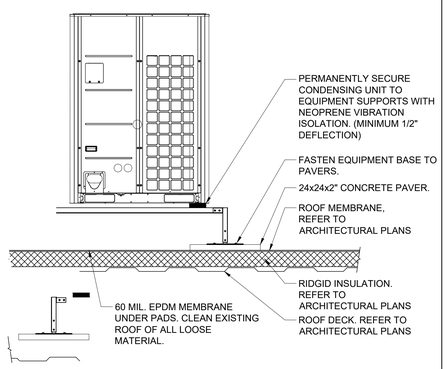
4 VRF INDOOR UNIT DETAILS
SCALE: NONE



2 SUPPLY REGISTER MOUNTING DETAIL - EXPOSED DUCT
SCALE: NONE

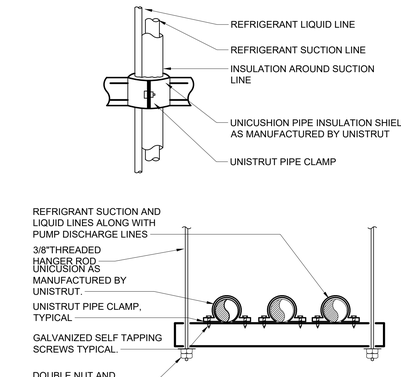


7 ROUND CONNECTION TO SQUARE NECK DIFFUSER
SCALE: NONE



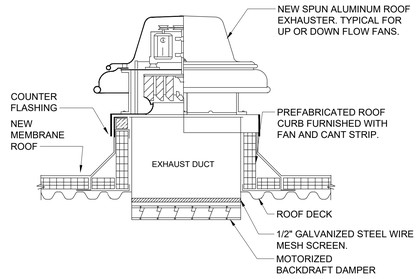
NOTES:
1.) EQUIPMENT SUPPORTS SHALL BE BIG FOOT SYSTEMS STAND.
2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF EQUIPMENT TO BE SUPPORTED.
3.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
4.) CEMENT EQUIPMENT SUPPORT TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

5 SUPPORT DETAIL FOR CONDENSING UNITS LOCATED ON ROOF
SCALE: NONE



NOTES:
1.) LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE, BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
2.) LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
3.) USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED.
4.) SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

3 REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



NOTES:
1.) SEE ARCHITECTIRAL DRAWINGS FOR FLASHING AND COUNTER FLASHING DETAILS.

1 ROOFTOP EXHAUST FAN DETAIL
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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olace.com

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

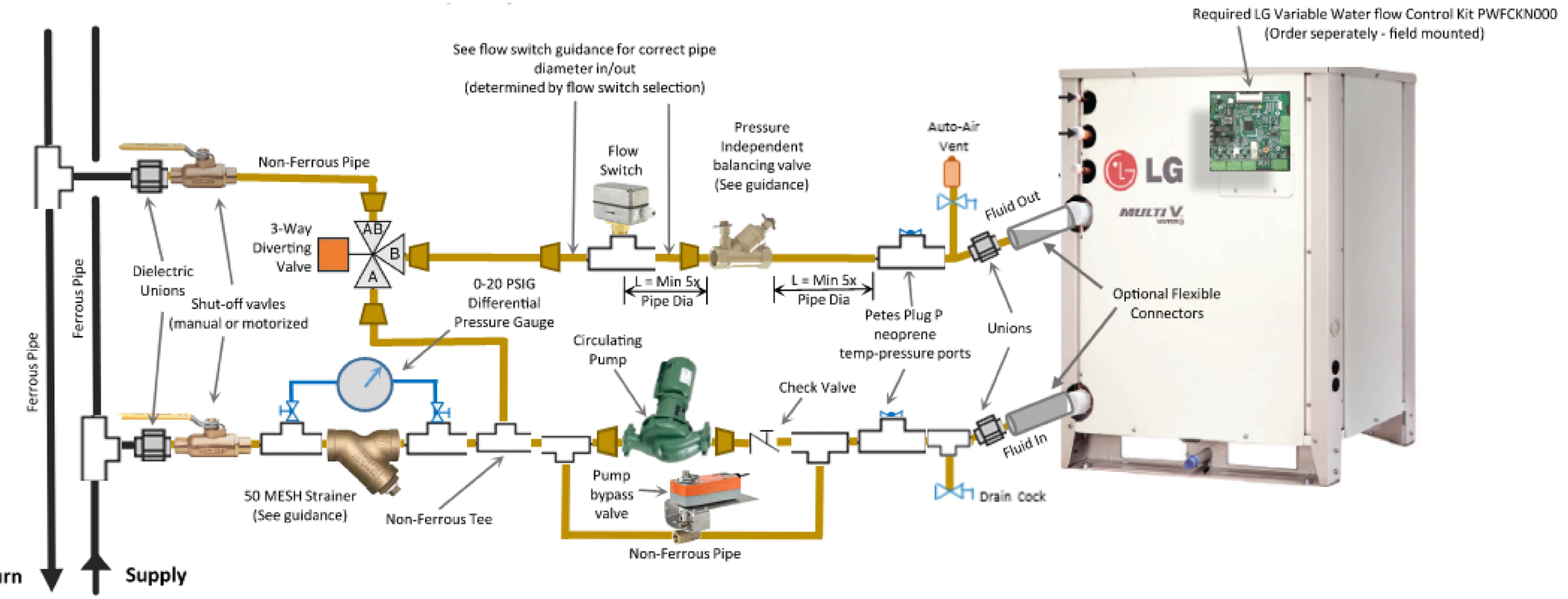
Sheet Title

MECHANICAL DETAILS

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked HM / RG

Sheet Number

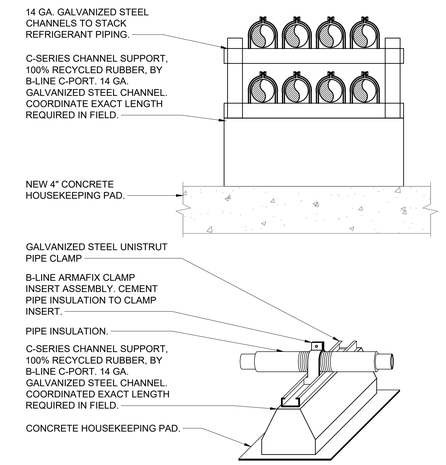
M-703



2 WATER COOLED HEAT PUMP DETAIL

SCALE: NONE

RFI 035 RFI 061 RFI 076



NOTES:
1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO HOUSEKEEPING PAD.

1 REFRIGERANT ON PAD PIPE SUPPORT DETAIL

SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

MECANICAL DETAILS

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	HM / RG

Sheet Number

M-704

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING
	-	CONDUIT & WIRING TO BE REMOVED UON
— —UG— —	-	BURIED CONDUIT
——OH——	-	OVERHEAD CONDUCTORS
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P
	-	MULTI-POLE HOMERUN
	-	ELECTRICAL EQUIPMENT AS INDICATED
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON
M	-	ELECTRIC METER
J	-	JUNCTION BOX
J	-	FUSED DISCONNECT SWITCH
J	-	UNFUSED DISCONNECT SWITCH
J	-	COMBINATION MOTOR STARTER/FUSED DISC.
	-	MOTOR STARTER
	-	MOTOR
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^3	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^4	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_M	-	MOTOR RATED TOGGLE SWITCH
S_K	-	KEY OPERATED SINGLE POLE SWITCH
S_V	-	SPEED CONTROLLER (FB0)
	-	WALL MOUNTED OCCUPANCY SENSOR
OC	-	CEILING MOUNTED OCCUPANCY SENSOR
	-	DUPLEX RECEPTACLE
	-	DOUBLE DUPLEX RECEPTACLE
	-	SPECIAL RECEPTACLE
	-	TELEPHONE OUTLET
x	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)
	-	COMBINATION TELEPHONE/DATA OUTLET
	-	COMBINATION DATA & TV OUTLET
	-	TV OUTLET
P	-	FURNITURE SYSTEM POWER FEED
C	-	FURNITURE SYSTEM COMMUNICATION FEED
F	-	FIRE ALARM MANUAL PULL STATION
F	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE)
F 110	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)
F	-	FIRE ALARM STROBE 15/75 CD
F 110	-	FIRE ALARM STROBE 110 CD
CO	-	CARBON MONOXIDE DEVICE (15/75 CD - STROBE)
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING
SB	SB	FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
RX	-	BEAM SMOKE DETECTOR RECEIVER
TX	-	BEAM SMOKE DETECTOR TRANSMITTER
S AC	-	DUCT MOUNTED SMOKE DETECTOR
H	-	HEAT DETECTOR
CO	-	CARBON MONOXIDE DETECTOR
NG	-	NATURAL GAS DETECTOR
PS	-	FIRE ALARM PRESSURE SWITCH
TS	-	FIRE ALARM TAMPER SWITCH
WF	-	FIRE ALARM WATER FLOW SWITCH
LT	-	FIRE WATER TANK LOW TEMP SENSOR
LW	-	FIRE WATER TANK LOW WATER
HW	-	FIRE WATER TANK HIGH WATER
LA	-	DRY VALVE LOW AIR
HA	-	DRY VALVE HIGH AIR
WS	-	FIRE ALARM WARDEN STATION
DH	-	FIRE ALARM DOOR RELEASE
ANN	-	FIRE ALARM ANNUNCIATOR PANEL
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY

SYMBOL	ABBREVIATION	DESCRIPTION
DGP	DGP	DATA GATHERING PANEL
FCS	FCS	FIRE COMMAND STATION
FSS	FSS	FIRE SUPPRESSION SYSTEM PANEL
R	-	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER
	-	PUBLIC ADDRESS TELEPHONE
SP	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
S	-	CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER
B	-	FIRE ALARM BELL
C	-	CAMERA
TC	-	TIME CLOCK
CR	-	CARD READER
DA	-	DOOR ALARM
ES	-	ELECTRIC DOOR STRIKE
MD	-	SECURITY MOTION DETECTOR
KP	-	KEY PAD
PA	-	PANIC ALARM
PTZ	-	SECURITY CAMERA PTZ - PAN, TILT, ZOOM
S	-	SECURITY ALARM HORN
O	-	PUSHBUTTON
CFA	-	CALL FOR AID PULL STATION
CFA	-	CALL FOR AID A/V DEVICE
HD	-	ELECTRIC HAND DRYER
EPO	EPO	EMERGENCY POWER OFF SWITCH
RASP	RASP	RESCUE ASSIST. SYSTEM MASTER STATION
	-	REMOTE RESCUE STATION
	CB	CIRCUIT BREAKER
	-	ENCLOSED CIRCUIT BREAKER
200A 150AF	-	FUSED SWITCH
G	GEN	GENERATOR
	-	GENERATOR RECEPTACLE
OR	GND	GROUND AS PER LOCAL CODE
	-	GROUND BAR
OR	-	GROUND ROD
	-	TRANSFER SWITCH
OR T	XFMR	TRANSFORMER
	CT	CURRENT TRANSFORMER
	-	UTILITY POLE
WM	WM	WATER MAIN
B	-	BOILER BREAK GLASS STATION
	NC	NORMALLY CLOSED CONTACTS
	NO	NORMALLY OPEN CONTACTS
	CV	CONTROL VALVE
M	MD	MOTORIZED DAMPER
	SD OR CFSD	SMOKE DAMPER
UH	UH	UNIT HEATER
RA	-	RESCUE ASSISTANCE
DDC	-	DOUBLE DOOR CONTACT
DC	-	DOOR CONTACT
	A	AMPERE(S)
	AC	AIR CONDITIONER
	ACC	AIR CONDITIONER CONDENSER
	AFF	ABOVE FINISHED FLOOR
	AF	AMPERAGE OF FUSE
	AGL	ABOVE GRADE LEVEL
	AHU	AIR HANDLING UNIT
	AL	ALUMINIUM
	ARC	ARC FAULT INTERRUPTER
	AS	AMPERAGE OF SWITCH
	ATS	AUTOMATIC TRANSFER SWITCH
	AWG	AMERICAN WIRE GAUGE
	AV	AUDIO VISUAL
	BCW	BARE COPPER WIRE
	BLDG	BUILDING
	BMS	BUILDING MANAGEMENT SYSTEM
	C	CONDUIT
	CD	CANDELA
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	CU	COPPER
	CUH	CABINET UNIT HEATER

SYMBOL	ABBREVIATION	DESCRIPTION
	DEM.	DEMOLISH AND REMOVE
	DISC	DISCONNECT
	DIM	DIMMER
	DWG	DRAWING
	ELEV	ELEVATOR
	EMT	ELECTRICAL METALLIC TUBING
	EM	EMERGENCY
	EX.	EXISTING TO REMAIN
	F	FLOOR
	FBO	FURNISHED BY OTHERS
	FC	FAN COIL UNIT
	GEN	GENERATOR
	GFI	GROUND FAULT INTERRUPTER
	HP	HORSEPOWER
	HVAC	HEATING VENTILATION AIR CONDITIONING
	IG	ISOLATED GROUND
	IMC	INTERMEDIATE METAL CONDUIT
	KVA	KILO-VOLT-AMPERE
	KW	KILO-WATT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MCC	MOTOR CONTROL CENTER
	MIN	MINIMUM
	MLO	MAIN LUG ONLY
	MTS	MANUAL TRANSFER SWITCH
	NIC	NOT IN CONTRACT
	NL	NIGHT LIGHT
	NTS	NOT TO SCALE
	OH	OVERHEAD
	P	POLE
	PBO	PROVIDED BY OTHERS
	PNL	PANEL
	PT	PRESSURE TREATED
	PVC	POLY VINYL CHLORIDE
	REL.	REMOVE AND RELOCATE
	RGS	RIGID GALVANIZED STEEL
	RTU	ROOF TOP UNIT
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	UV	UNIT VENTILATOR
	VIF	VERIFY IN FIELD
	V	VOLT(S)
	WG	WIRE GUARD
	WH	WATER HEATER
	WP	WEATHERPROOF

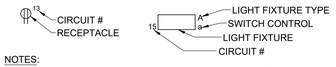
NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)



NOTES:
1.) EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2.) CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

GENERAL NOTES

1.) ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).

2.) THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.

3.) THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.

4.) ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.

5.) ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".

6.) ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.

GENERAL NOTES (CONT'D)

7.) CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.

8.) WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.

9.) INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.

10.) CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.

11.) UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.

12.) DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.

13.) INCLUDE IN BASE BID THE FOLLOWING 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

PARKING - PSPA-45
FIRST FLOOR - PS1A-25, PN1A-27
SECOND FLOOR - PS2A-57

DEFINITION OF TERMS

1.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "THE TOWN OF HARRISON, NY" IS INTENDED.

2.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, P.C." IS INTENDED.

3.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.

4.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.

5.) WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "OPTIMUM" IS INTENDED.

6.) "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.

7.) "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.

8.) "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.

9.) "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.

10.) THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A.) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B.) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C.) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

D.) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TRENCHING NOTES

1. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
2. ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
3. ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962.

LOW VOLTAGE SYSTEMS NOTES

1.) THIS CONTRACTOR IS RESPONSIBLE FOR ALL RACEWAYS AND WIRING ASSOCIATED WITH LOW VOLTAGE SYSTEMS. THE LOW VOLTAGE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO, AUDIO/VISUAL, ACCESS CONTROL, CCTV, INTRUDER ALARM, DATA AND COMMUNICATION SYSTEMS. THIS CONTRACTOR SHALL REFER TO THE "AVV" AND "SE" SERIES DRAWINGS AND DETAILS FOR QUANTITIES, SIZES AND SPECIFICATION OF RACEWAYS AND WIRING. THIS CONTRACTOR SHALL PROVIDE DATA RACKS AND PATCH PANELS FOR TERMINATING SYSTEM WIRING. TEST AND LABEL EACH END OF WIRING.

2.) HEAD-END SWITCHES, SENSORS AND SYSTEM COMPONENTS SHALL BE BY OTHERS.

3.) ALL LADDER RACKS, TROUGHS AND ASSOCIATED COMPONENTS WITHIN IT AND AV ROOMS ARE BY THIS CONTRACTOR, AS DETAILED IN THE "AVV" AND "SE" SERIES DRAWINGS.

4.) FOR EACH WALL MOUNTED LOW VOLTAGE SYSTEM OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY THIS CONTRACTOR. JUNCTION BOXES SHALL BE RECESSED WITHIN THE NEW BUILDING CONSTRUCTION, COORDINATE WITH GENERAL CONSTRUCTION CONTRACTOR.

5.) THIS CONTRACTOR SHALL WIRE CAT6 CABLE TO EACH COMMUNICATION POINT SHOWN, SEE PLAN FOR QUANTITIES. TERMINATIONS AT DATA POINT AND PATCH PANEL BY THIS CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THIS CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.

6.) FIBER OPTIC WIRING BETWEEN DATA ROOM 111 AND DATA ROOM 205A IS BY THIS CONTRACTOR. PROVIDE A PLENUM RATED MULTI-MODE 12 STRAND FIBER OPTIC CABLE TERMINATED WITH LC CONNECTORS.

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7	10/09/2024	CONFORMED SET
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS

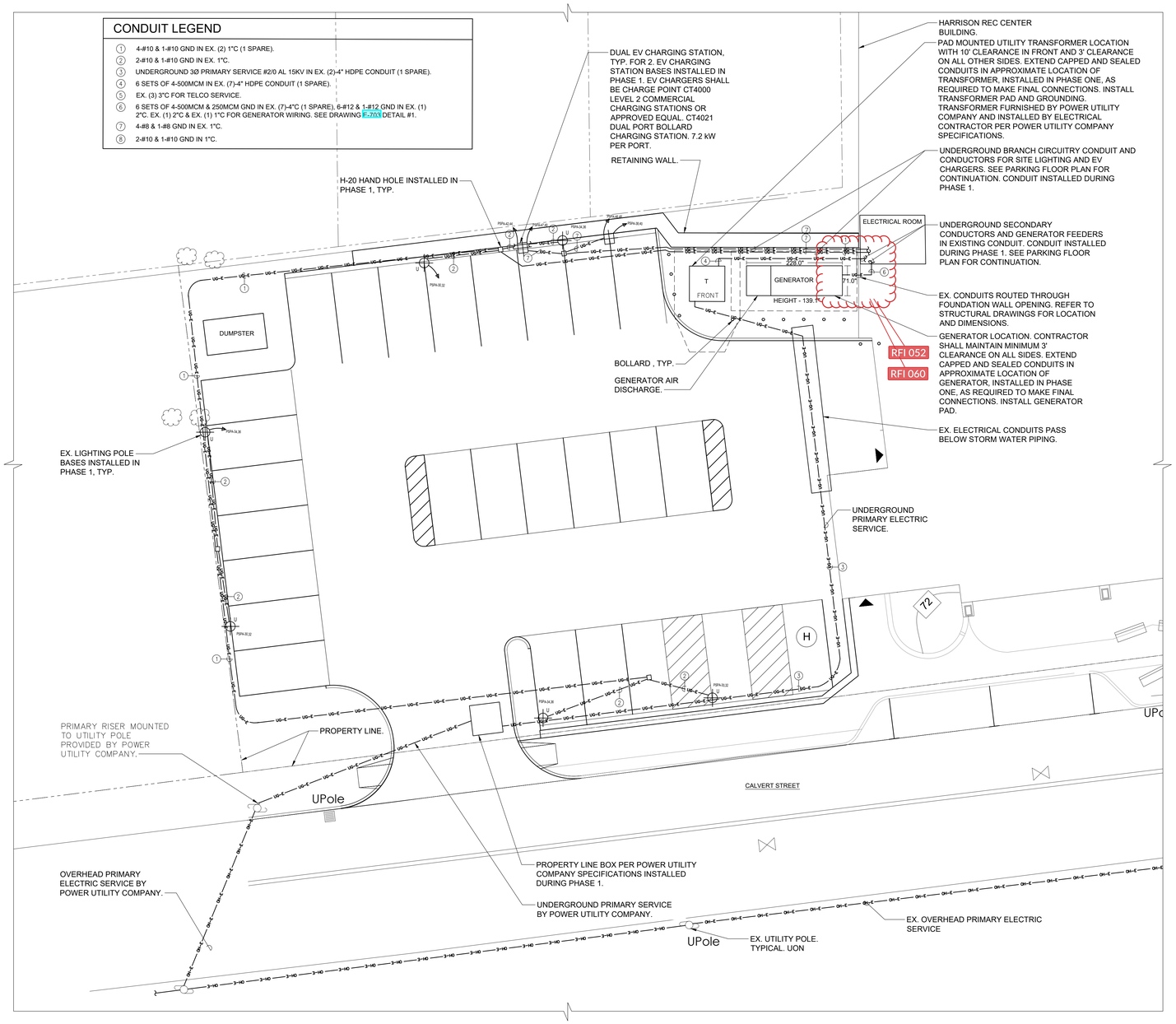
Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked JJ / ML/DS

Sheet Number

E-001

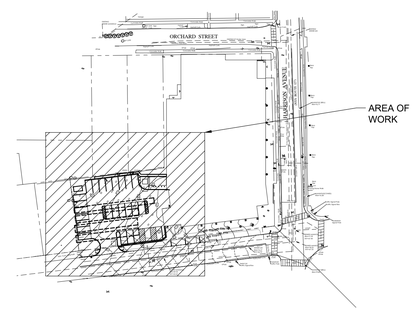
CONDUIT LEGEND

1. 4-#10 & 1-#10 GND IN EX. (2) 1"C (1 SPARE).
2. 2-#10 & 1-#10 GND IN EX. 1"C.
3. UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. (2)-4" HDPE CONDUIT (1 SPARE).
4. 6 SETS OF 4-500MCM IN EX. (7)-4" HDPE CONDUIT (1 SPARE).
5. EX. (3) 3"C FOR TELCO SERVICE.
6. 6 SETS OF 4-500MCM & 250MCM GND IN EX. (7)-4"C (1 SPARE), 6-#12 & 1-#12 GND IN EX. (1) 2"C. EX. (1) 2"C & EX. (1) 1"C FOR GENERATOR WIRING. SEE DRAWING E-701 DETAIL #1.
7. 4-#8 & 1-#8 GND IN EX. 1"C.
8. 2-#10 & 1-#10 GND IN 1"C.



2 **ELECTRICAL SITE PLAN**
SCALE: 1" = 10'-0"
NORTH

NOTES:
1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.



1 **KEY PLAN**
SCALE: NONE
NORTH

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

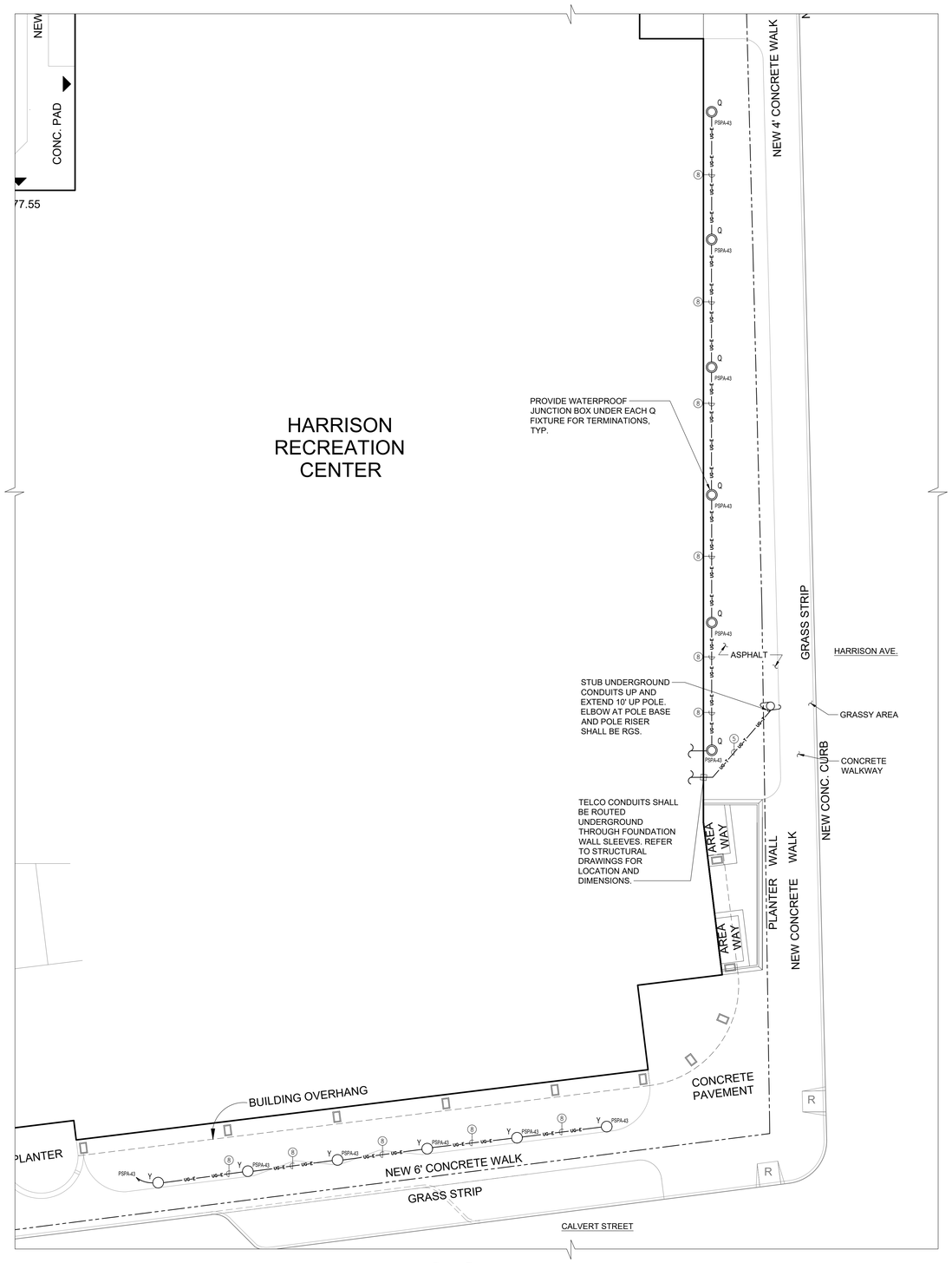
Sheet Title

ELECTRICAL SITE PLAN

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked JJ / ML/DS

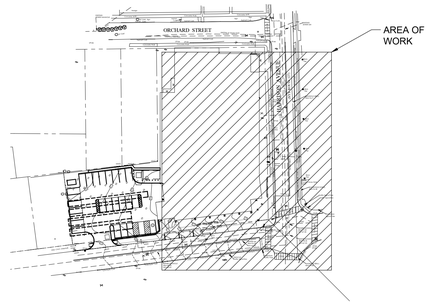
Sheet Number

E-010



2 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"
NORTH

NOTES:
1.) ALL ELECTRICAL CONDUITS ARE ROUTED UNDERGROUND, UON.
2.) ALL SPARE ELECTRICAL CONDUITS SHALL BE PROVIDED WITH DRAGLINES.
3.) ALL CONDUITS SHALL BE SCHEDULE 40 PVC, UON.
4.) SEE DRAWING E-010 FOR CONDUIT LEGEND.



1 KEY PLAN
SCALE: NONE
NORTH

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL SITE PLAN

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	JJ / ML/DS

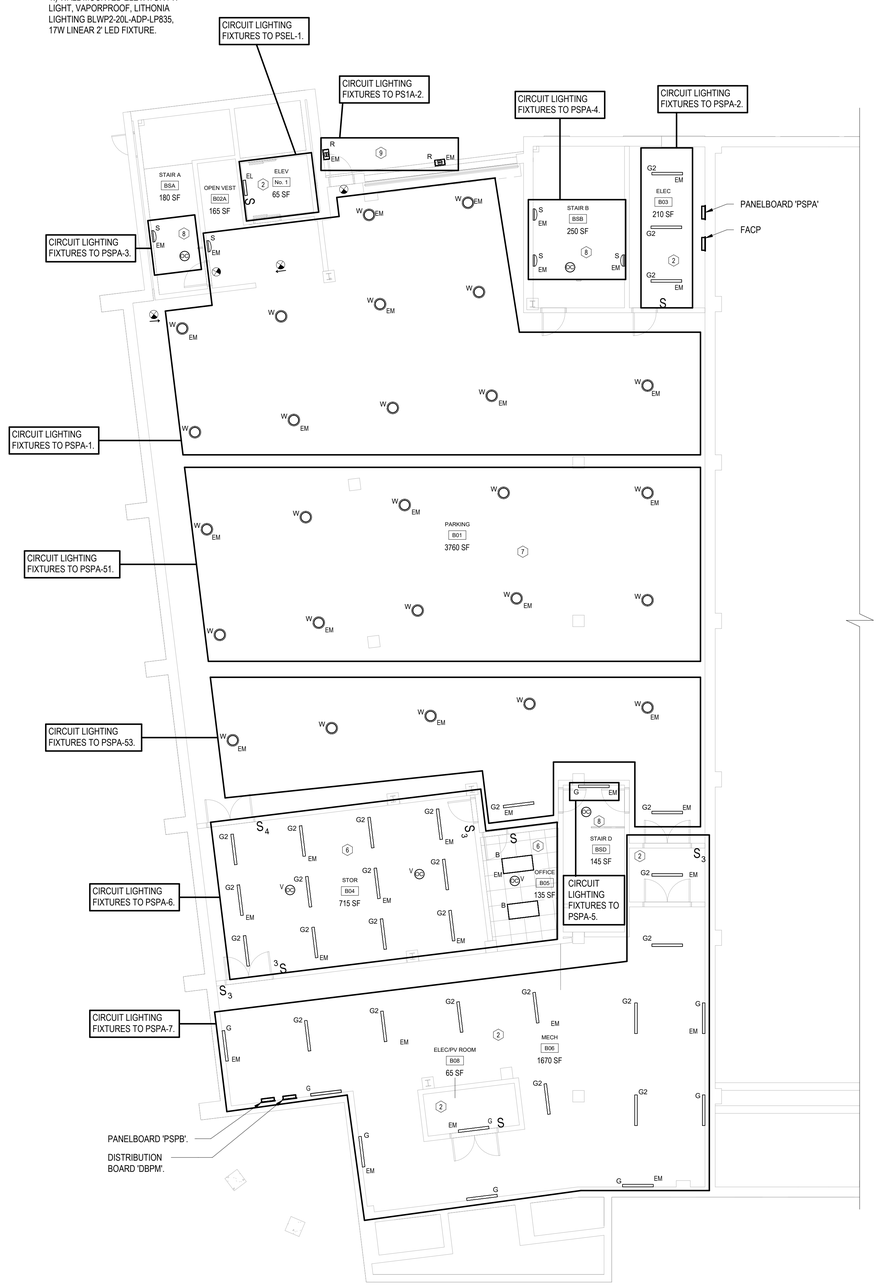
Sheet Number

E-011

LIGHTING CONTROL LEGEND:

1. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
2. - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
3. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
4. - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANY SENSOR.
5. - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
6. - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
7. - TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
8. - TIMECLOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
9. - OUTDOOR PHOTOSENSOR CONTROL.

ELEVATOR LIGHTING NOTES:
1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP835, 17W LINEAR 2' LED FIXTURE.



1 ELECTRICAL PARKING LEVEL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

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Key Plan

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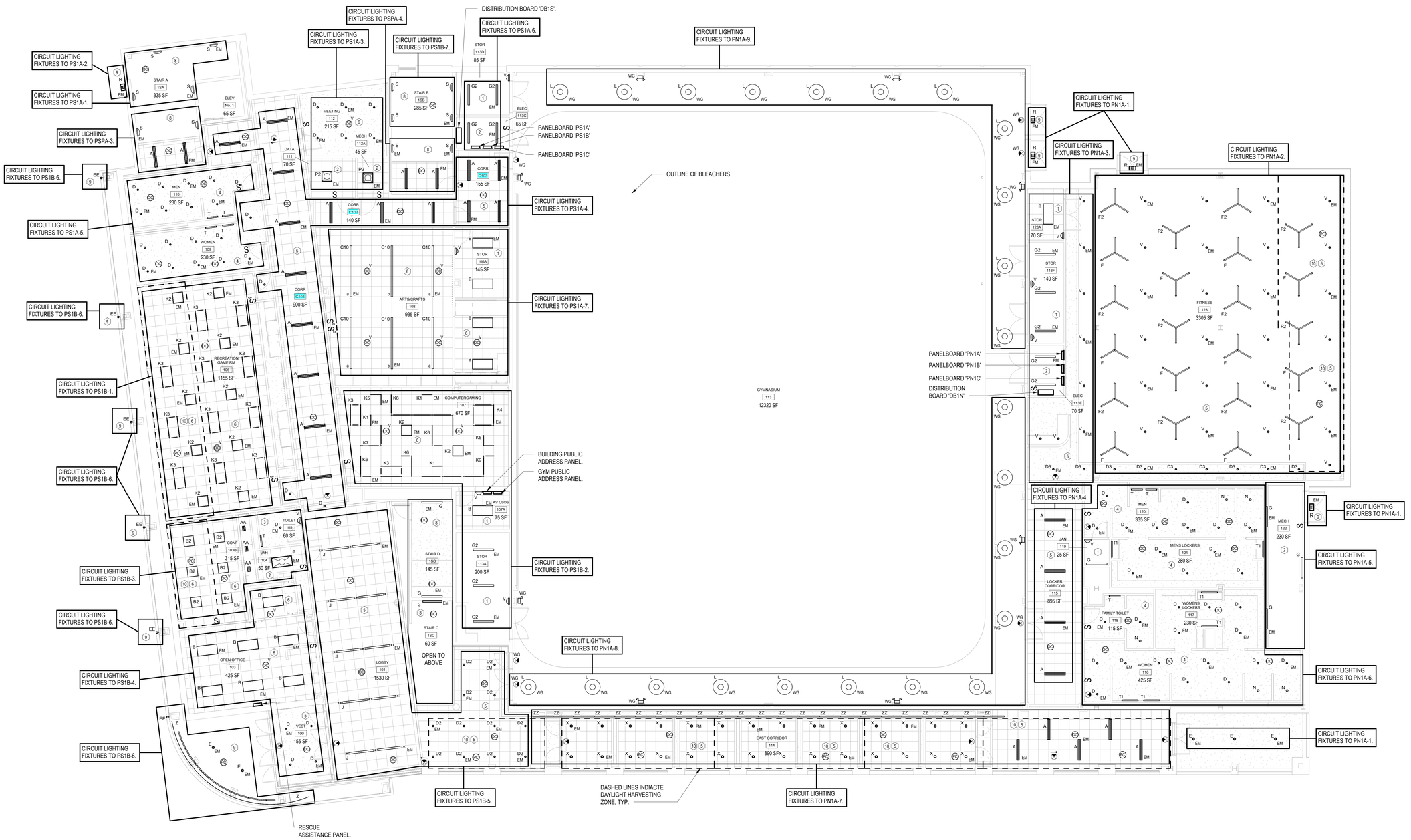
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
ELECTRICAL PARKING REFLECTED CEILING PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number
E-201



LIGHTING CONTROL LEGEND:

1. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
2. - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
3. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
4. - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANY SENSOR.
5. - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
6. - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
7. - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
8. - TIMECLOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
9. - OUTDOOR PHOTOSENSOR CONTROL.
10. - DAYLIGHT ZONE.

1 ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN

NORTH

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

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL FIRST FLOOR REFLECTED CEILING PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

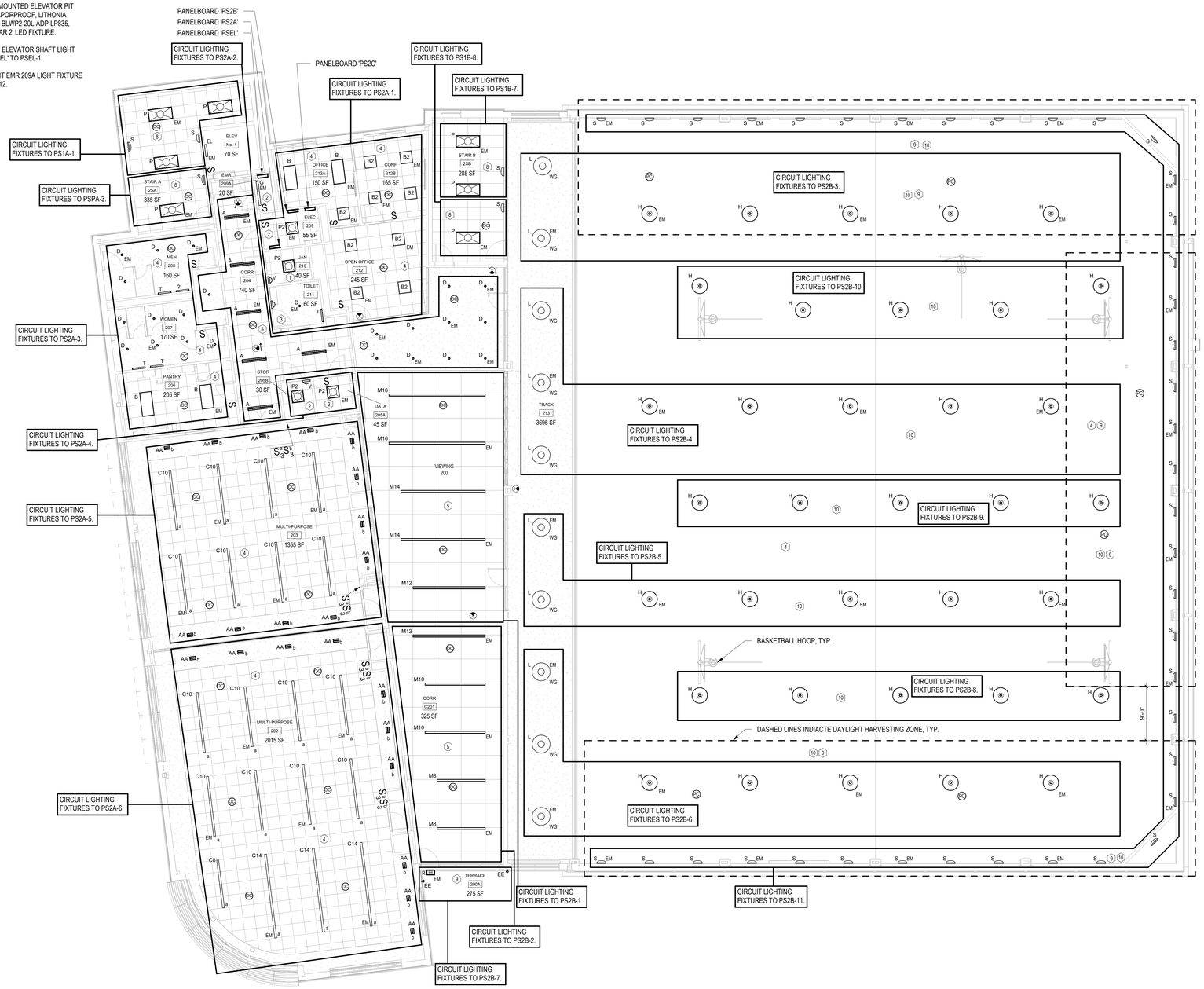
E-202

ELEVATOR LIGHTING NOTES:

1.) WALL MOUNTED ELEVATOR PIT LIGHT, VAPORPROOF, LITHONIA LIGHTING BLWP2-20L-ADP-LP835, 17W LINEAR 2' LED FIXTURE.

2.) CIRUIT ELEVATOR SHAFT LIGHT FIXTURE 'EL' TO PSEL-1.

3.) CIRCUIT EMR 209A LIGHT FIXTURE TO PSEL-12.



LIGHTING CONTROL LEGEND:

1. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
2. - LINE VOLTAGE MANUAL ON/OFF WALL SWITCH.
3. - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
4. - LINE VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED OCCUPANY SENSOR.
5. - TIMECLOCK WITH OCCUPANCY SENSOR AFTER HOURS AND MAIN SWITCH IN RECEPTION AREA.
6. - LOW VOLTAGE WALL SWITCH WITH DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
7. - PHOTOCELL AND TIMECLOCK WITH MANUAL OVERRIDE SWITCH.
8. - TIMECLOCK CONTROL, LIGHTS SHALL BE AT FULL BRIGHTNESS DURING BUSINESS HOURS, AFTER HOURS LIGHTS SHALL AUTOMATICALLY DIM TO 50% AND RETURN TO FULL BRIGHTNESS WHEN OCCUPANCY IS DETECTED VIA OCCUPANCY SENSORS.
9. - DAYLIGHT ZONE.
10. - MANUAL ON/OFF SWITCH WITH DIMMING AND TIMECLOCK CONTROL.

NORTH

1 ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN

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

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1	03/31/2020	50% DESIGN DEVELOPMENT

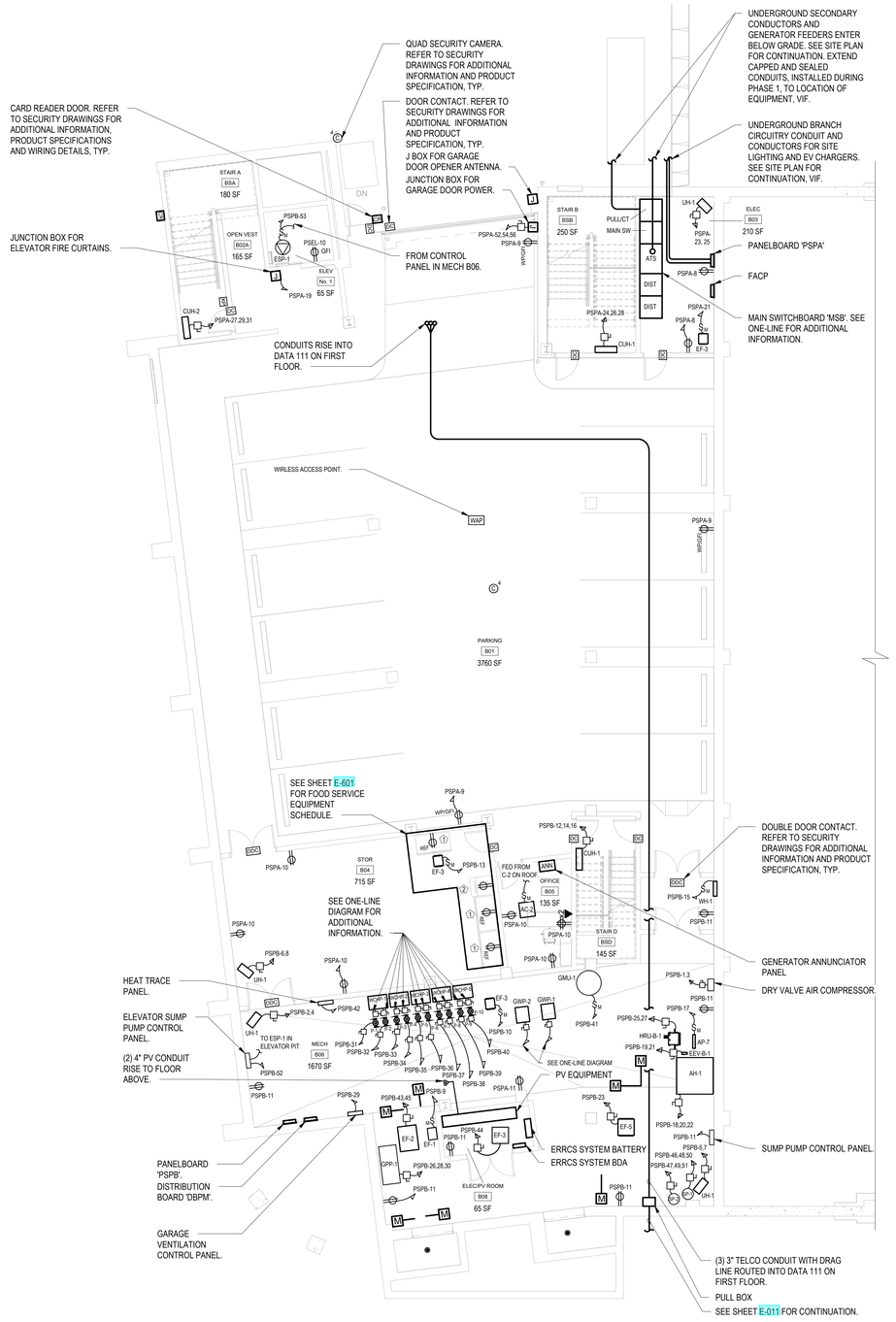
Sheet Title

ELECTRICAL SECOND FLOOR REFLECTED CEILING PLAN

Job No. NKGD0207.00	Date 02/21/20
Scale AS NOTED	Drawn / Checked VB / ML

Sheet Number

E-203



1 ELECTRICAL PARKING FLOOR PLAN

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

NOTES:
1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PSPB-24'.

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

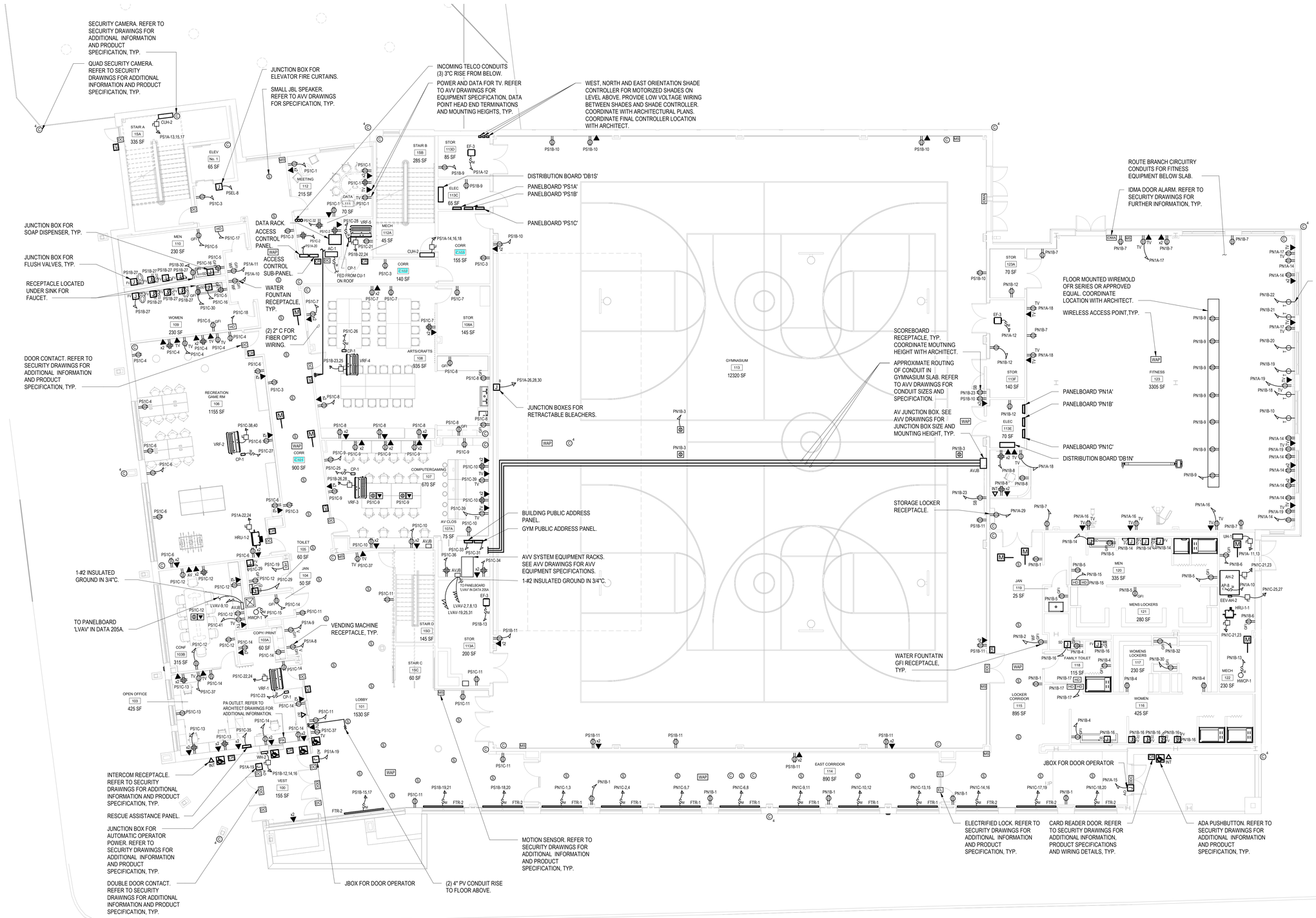
Sheet Title

ELECTRICAL PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E-301



ELECTRICAL FIRST FLOOR PLAN

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

NOTES:
1.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE SOUTH SIDE OF THE BUILDING TO 'PS1A-20'.

2.) CIRCUIT ALL MOTORIZED DAMPERS LOCATED ON THE NORTH SIDE OF THE BUILDING TO 'PN1C-22'.

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

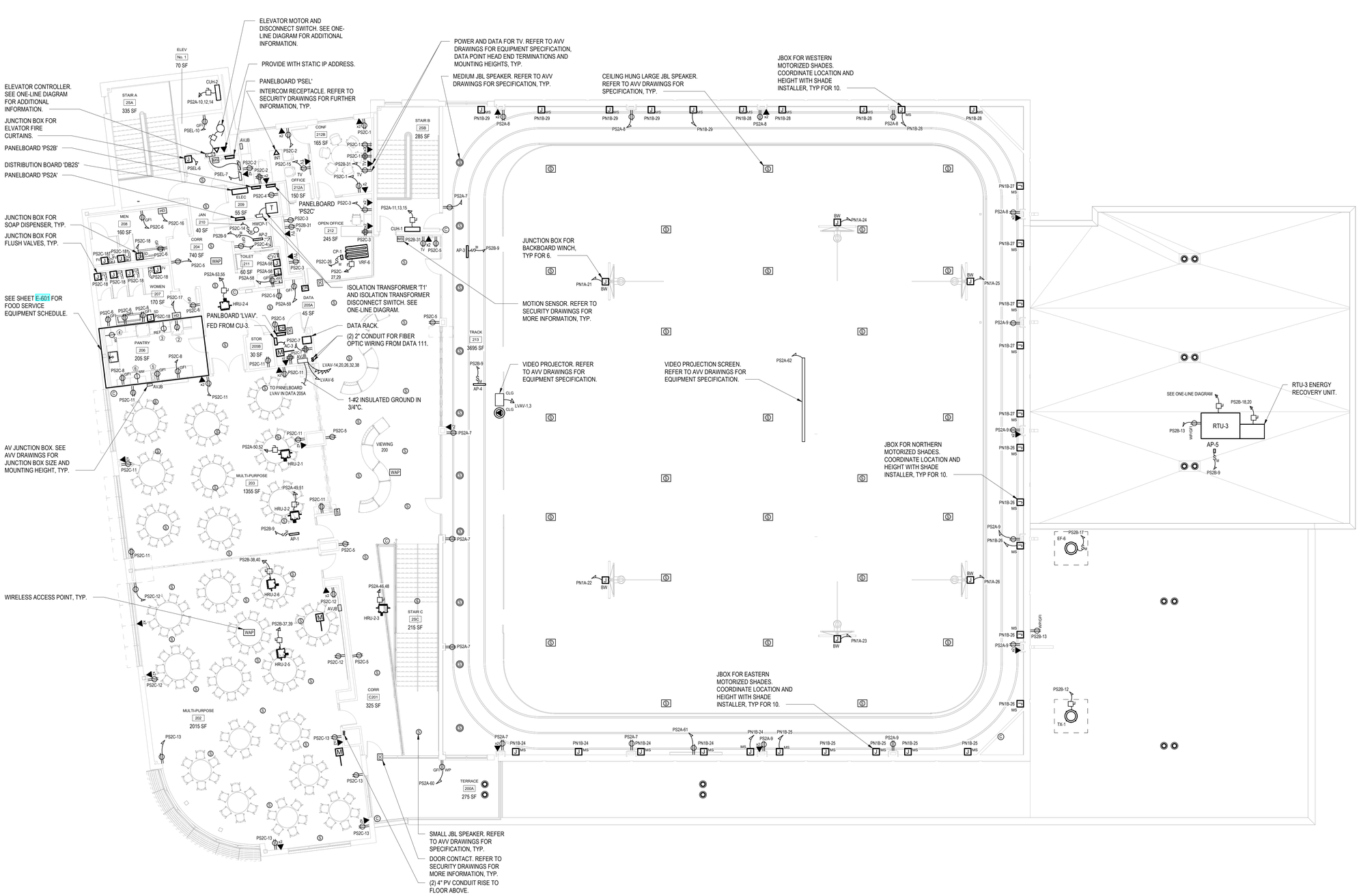
Sheet Title

ELECTRICAL FIRST FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale: AS NOTED	Drawn / Checked: VB / ML

Sheet Number

E-302



ELECTRICAL SECOND FLOOR PLAN

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

NOTES:
1.) CIRCUIT ALL MOTORIZED DAMPERS TO 'PS2C-28'.

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1	03/31/2020	50% DESIGN DEVELOPMENT

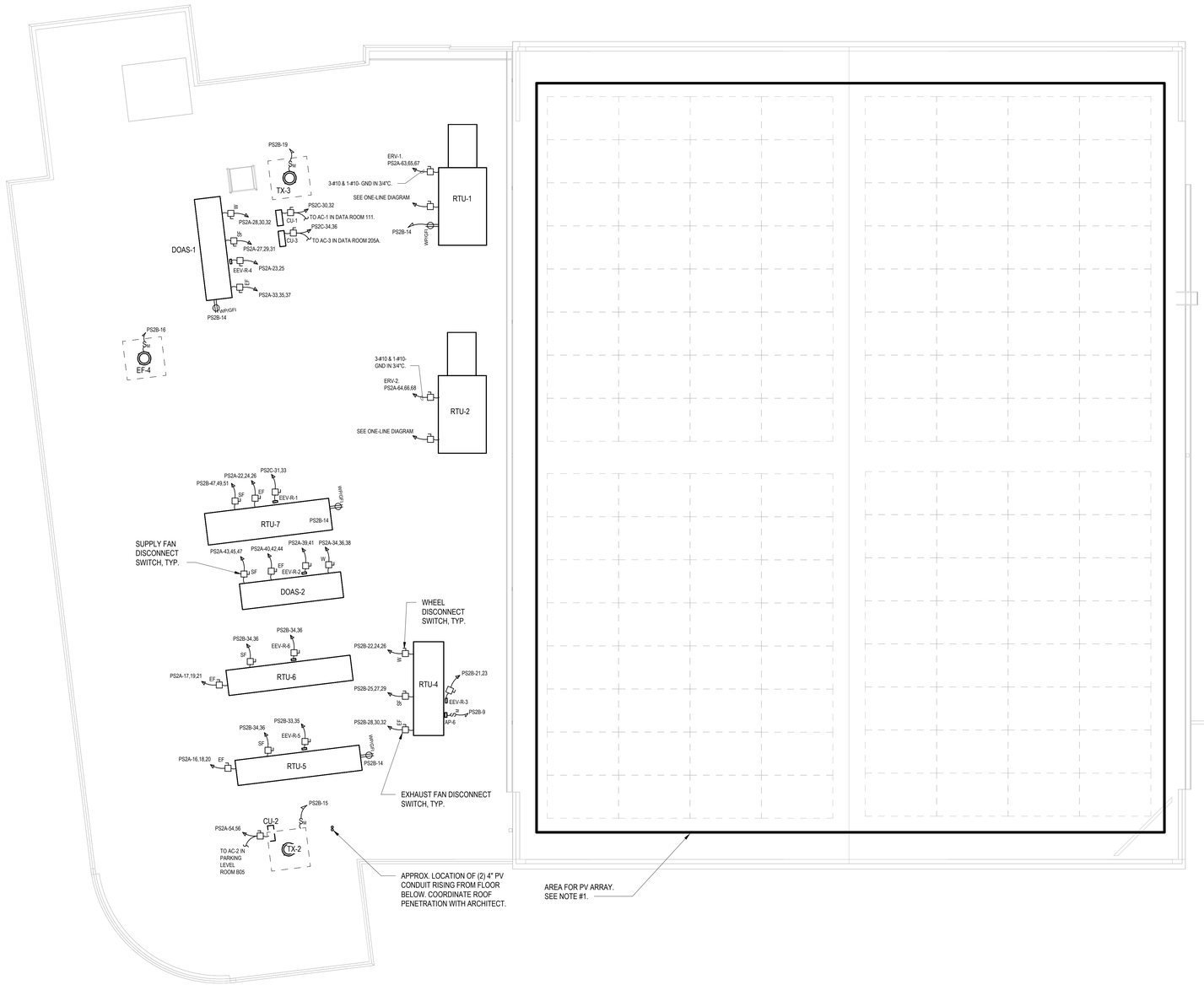
Sheet Title

ELECTRICAL SECOND FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E-303



NORTH

1 ELECTRICAL ROOF PLAN

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

NOTES:

1.) PV ARRAY SHALL BE APPROXIMATELY 170kW CAPACITY. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM.

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1	03/31/2020	50% DESIGN DEVELOPMENT

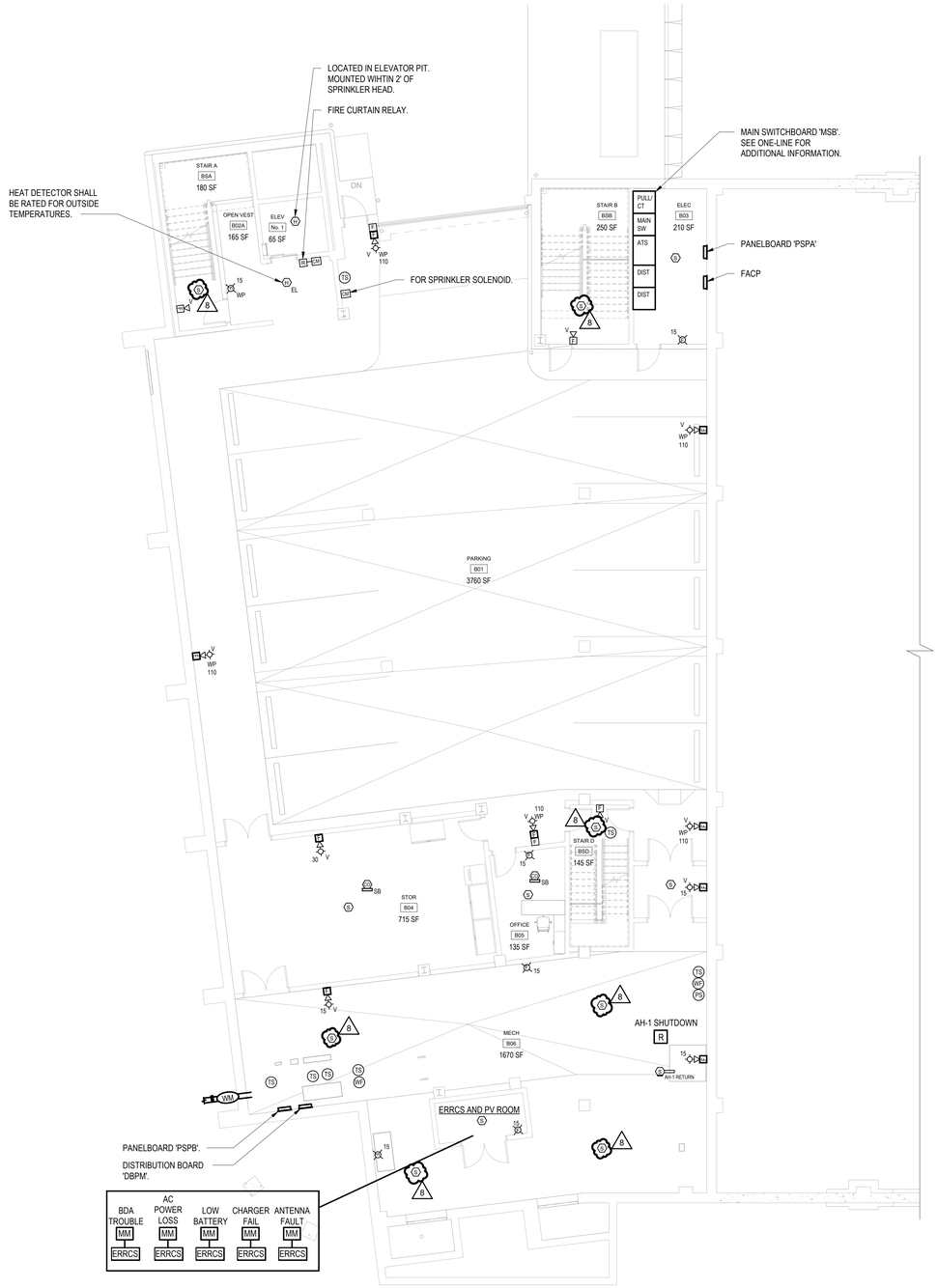
Sheet Title

ELECTRICAL ROOF PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E-304



1 FIRE ALARM PARKING FLOOR PLAN

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

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

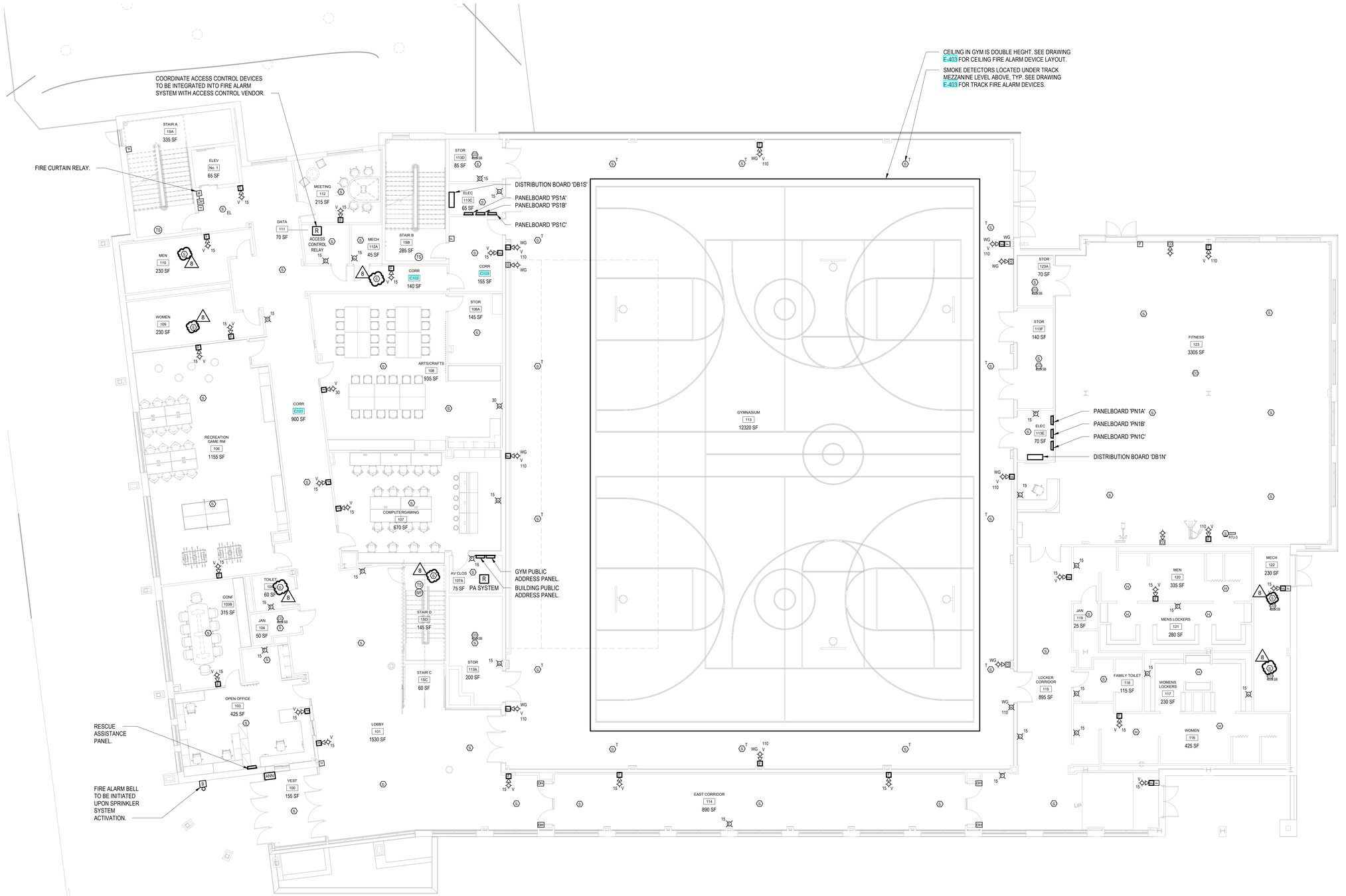
RFI 103

FIRE ALARM PARKING FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E-401



1 FIRE ALARM FIRST FLOOR PLAN

NORTH

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

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1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

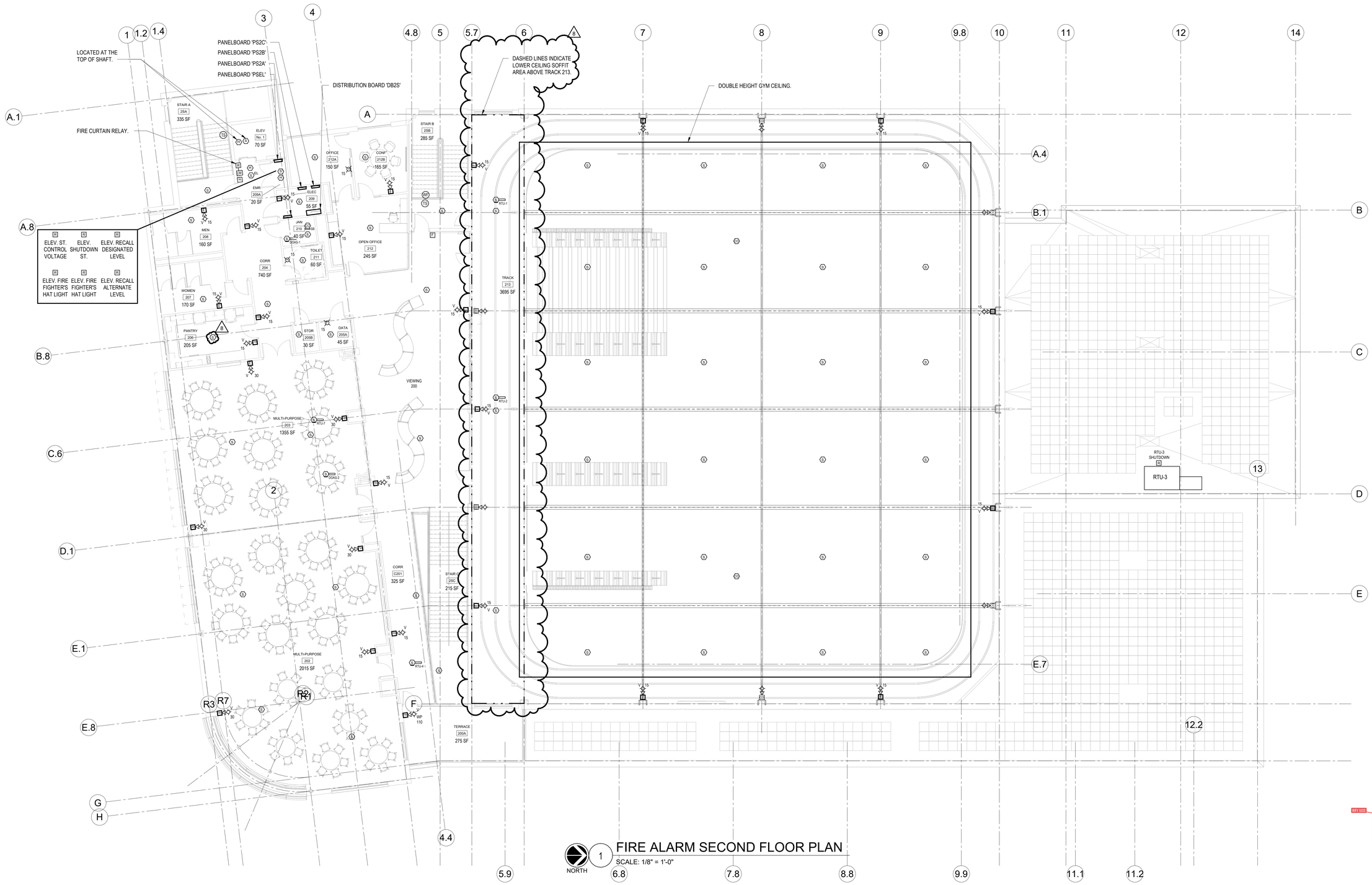
RFI 103

FIRE ALARM FIRST FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale	Drawn / Checked
AS NOTED	VB / ML

Sheet Number

E-402



1 FIRE ALARM SECOND FLOOR PLAN

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

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Sheet Title

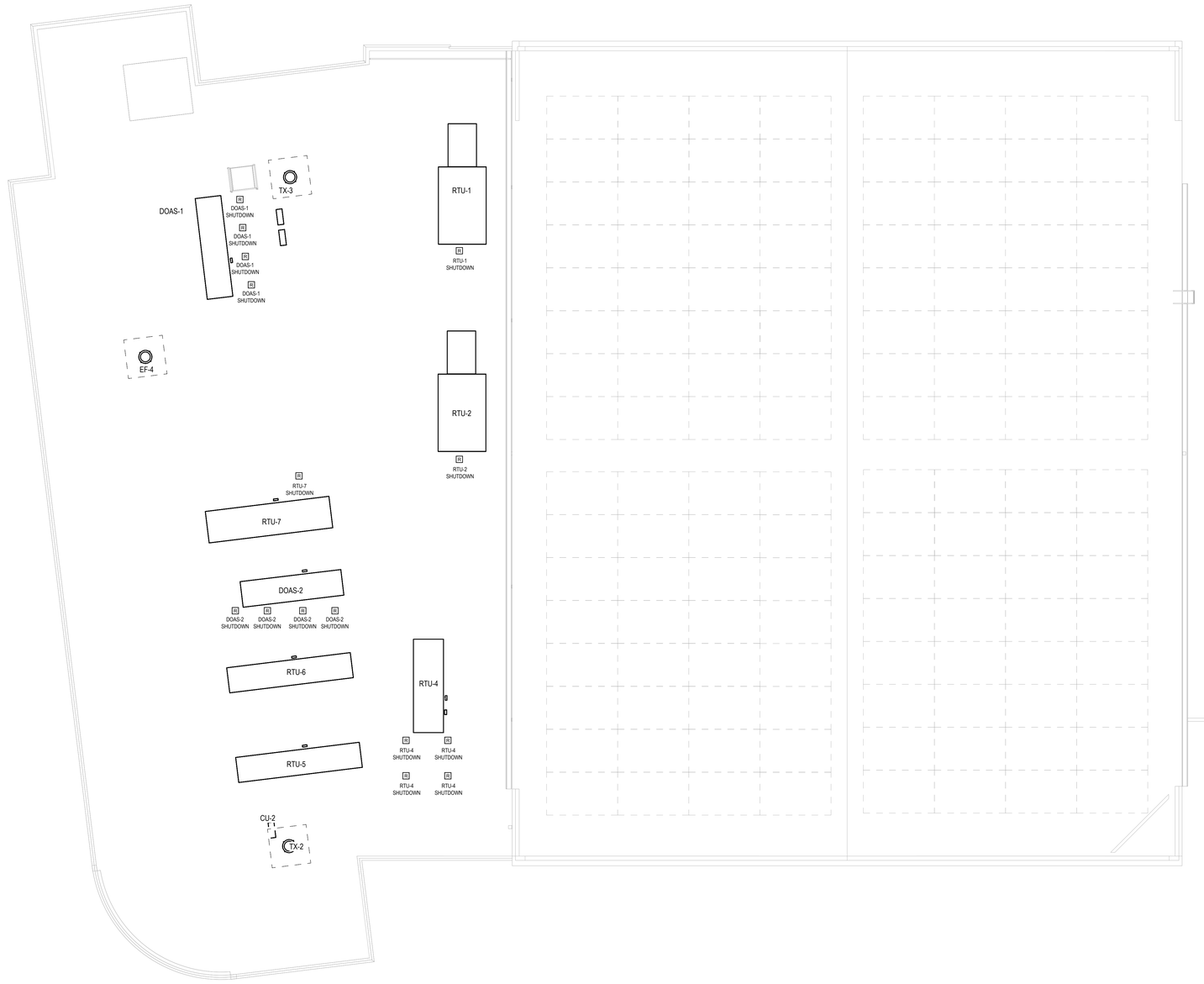
RFI 103

FIRE ALARM SECOND FLOOR PLAN

Job No.	Date
NKGD0207.00	02/21/20
Scale: AS NOTED	Drawn / Checked: VB / ML

Sheet Number

E-403



1 FIRE ALARM ROOF PLAN

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

NORTH

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FIRE ALARM ROOF PLAN

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AS NOTED	VB / ML

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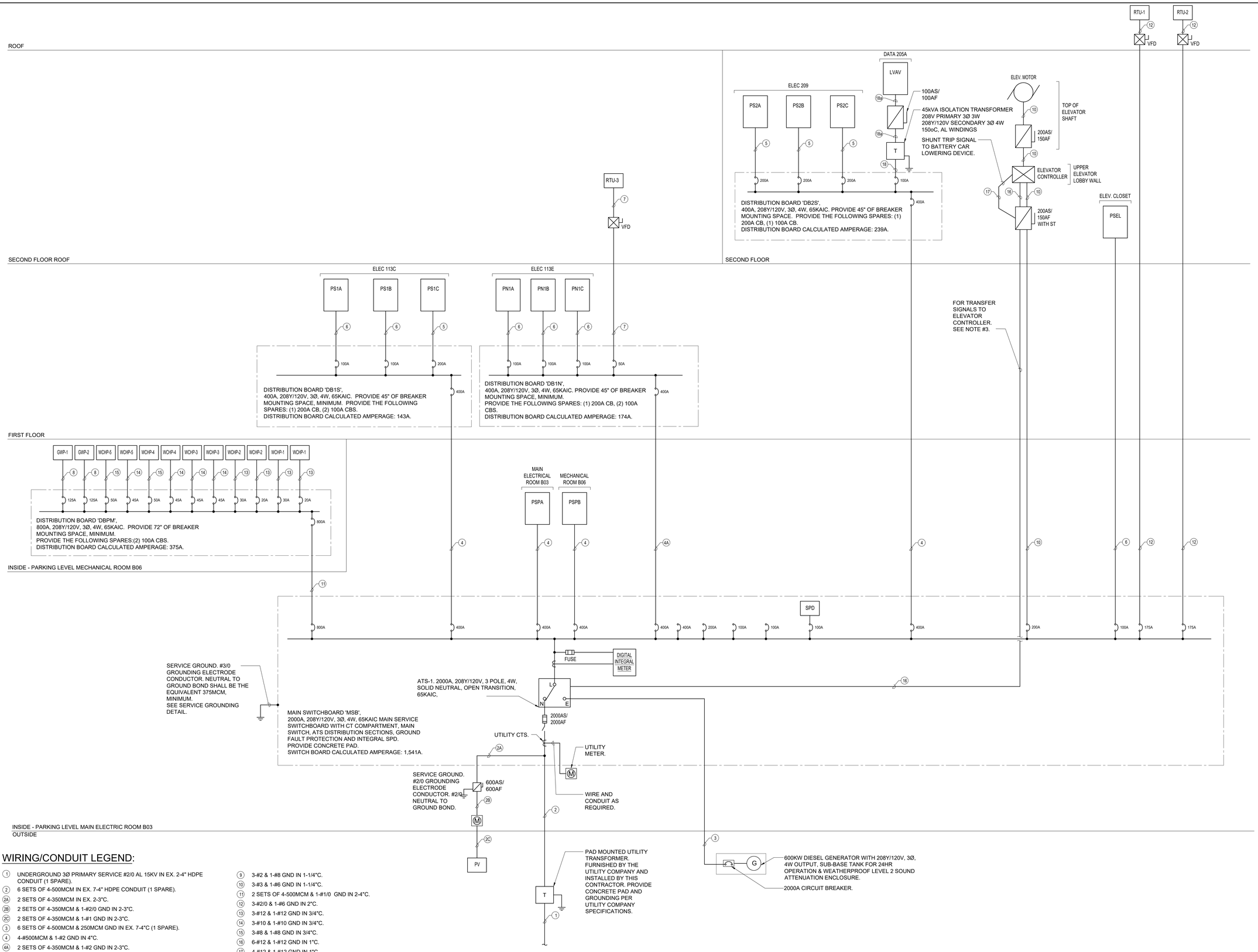
E-404



WIRING/CONDUIT LEGEND:

1. UNDERGROUND 3Ø PRIMARY SERVICE #2/0 AL 15KV IN EX. 2-4" HDPE CONDUIT (1 SPARE).
2. 6 SETS OF 4-500MCM IN EX. 7-4" HDPE CONDUIT (1 SPARE).
2A. 2 SETS OF 4-350MCM IN EX. 2-3"C.
2B. 2 SETS OF 4-350MCM & 1-#2/0 GND IN 2-3"C.
2C. 2 SETS OF 4-350MCM & 1-#1 GND IN 2-3"C.
3. 6 SETS OF 4-500MCM & 250MCM GND IN EX. 7-4"C (1 SPARE).
4. 4-#500MCM & 1-#2 GND IN 4"C.
4A. 2 SETS OF 4-350MCM & 1-#2 GND IN 2-3"C.
5. 4-#3/0 & 1-#6 GND IN 2-1/2"C.
6. 4-#2 & 1-#8 GND IN 1-1/4"C.
7. 3-#6 & 1-#10 GND IN 1"C.
8. 3-#4 & 1-#6 GND IN 1-1/4"C.
9. 3-#2 & 1-#8 GND IN 1-1/4"C.
10. 3-#3 & 1-#6 GND IN 1-1/4"C.
11. 2 SETS OF 4-500MCM & 1-#1/0 GND IN 2-4"C.
12. 3-#2/0 & 1-#6 GND IN 2"C.
13. 3-#12 & 1-#12 GND IN 3/4"C.
14. 3-#10 & 1-#10 GND IN 3/4"C.
15. 3-#8 & 1-#8 GND IN 3/4"C.
16. 6-#12 & 1-#12 GND IN 1"C.
17. 4-#12 & 1-#12 GND IN 1"C.
18. 3-#1/0 & 1-#8 GND IN 1-1/2"C.
18a. 4-#1/0 & 1-#8 GND IN 1-1/2"C.

1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

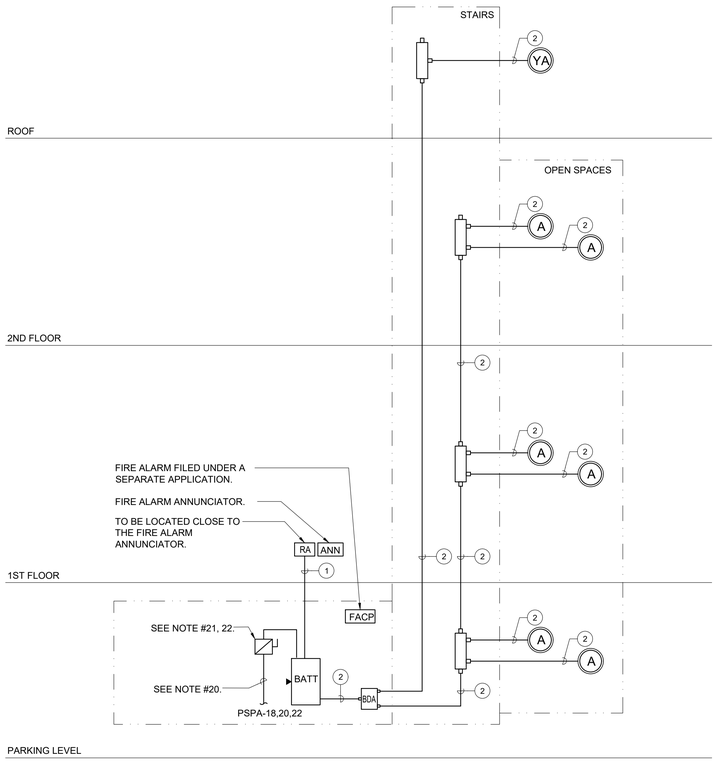
Sheet Title

ELECTRICAL ONE-LINE DIAGRAM

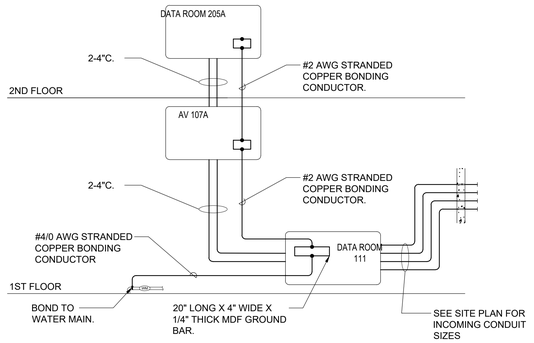
Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	JJ / ML/DS

Sheet Number

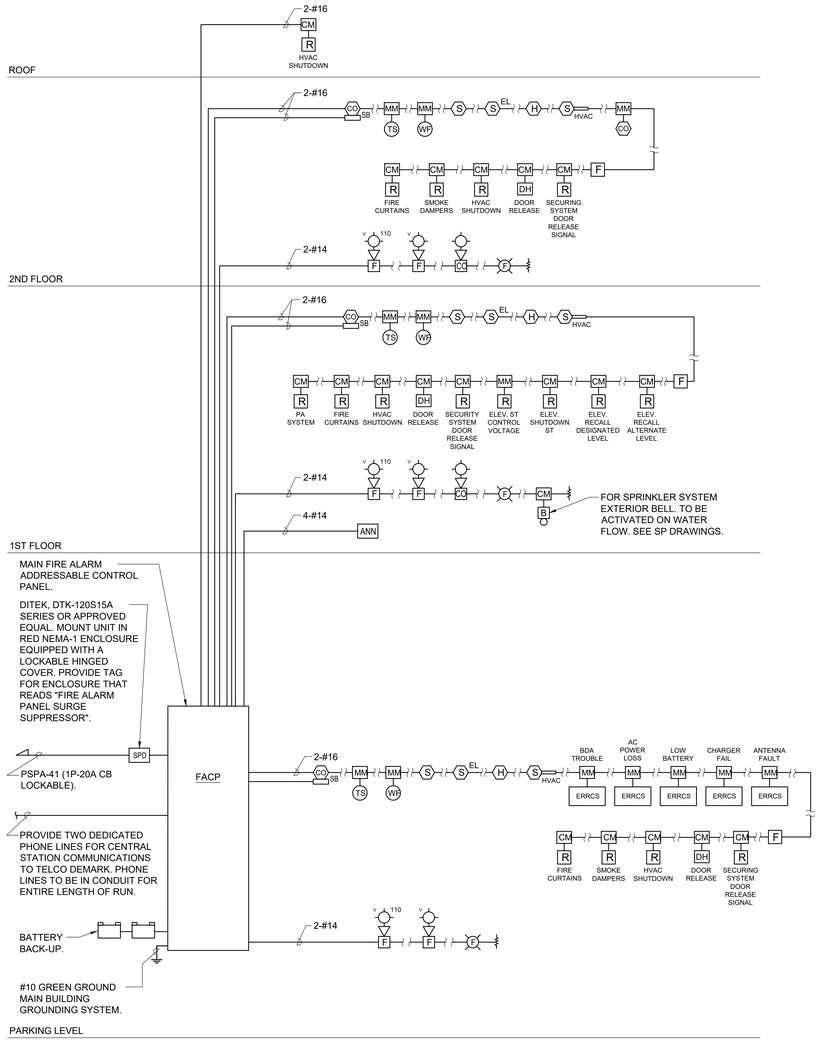
E-501



3 FIRE RADIO RISER DIAGRAM
SCALE: NONE



2 TELECOMMUNICATIONS GROUNDING AND CONDUIT RISER
SCALE: NONE



1 FIRE ALARM RISER DIAGRAM
SCALE: NONE

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	-	FUSED DISCONNECT SWITCH
	-	UNFUSED DISCONNECT SWITCH
	-	TAPPER
	-	EQUAL POWER DIVIDER
A	-	RY012NQ, POLOMARCONI ANTENNA
▲	-	TOWERLINQ SLC RISER
FACP	FACP	FIRE ALARM CONTROL PANEL
BATT	BATT	BATTERY BACK-UP WITH INTERNAL CHARGER
BDA	BDA	BI-DIRECTIONAL AMPLIFIER BOOSTER
YA	-	YAGI ANTENNA WITH MOUNTING HARDWARE
RA	-	REMOTE ANNUNCIATOR
	A	AMPERE(S)
	BLDG	BUILDING

SYMBOL	ABBREVIATION	DESCRIPTION
	C	CONDUIT
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	DWG	DRAWING
	ELEV	ELEVATOR
	FCS	FIRE COMMAND STATION
	PS	POWER SUPPLY
	SW	SWITCH(ES)
	TYP	TYPICAL
	UON	UNLESS OTHERWISE NOTED

NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.

WIRING/CONDUIT LEGEND:

(1) CONTROL CABLING:CAT-5e.

(2) 2-HR RATED CO-AUX CABLE IN 3/4"C THAT MEETS NFPA 72, 1221 AND UL 2196 SIMILAR TO DRAGON SKIN 2HB12-50JPLR OR APPROVED EQUAL.

NOTES:

1. RISER CABLING: PRIMARY DISTRIBUTION CABLE FOR R/F POWER IS NOT EXCLUSIVELY INSTALLED VERTICALLY.
2. BRANCH CABLING: LAST LEG DISTRIBUTION CABLE FOR R/F POWER. TYPICALLY INSTALLED ON A SINGLE FLOOR AND FEEDS ANTENNAS.
3. ALL BRANCH CABLING MUST BE ENCASED IN THE CONCRETE DECK OR OTHERWISE PROVIDED WITH TWO HOURS SURVIVABILITY.
4. CONTROL CABLING:CAT-5E. ALL CONTROL CABLING IS TO BE INSTALLED INSIDE A TWO-HOUR RATED SHAFT WAY.
5. ALL RISER CABLING IS 1/2" AIR DIELECTRIC CABLE, RED, PRINTED "FIRE DEPARTMENT COMMUNICATIONS USE" TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
6. INSTALLING CONTRACTOR TO DETERMINE FINAL DBM VALUES OF RF COMPONENTS.
7. WHERE RISSOED AND/OR BRANCH CABLING IS EXPOSED TO GENERAL PUBLIC, MUST BE MECHANICALLY PROTECTED AGAINST ACCIDENTAL AND INTENTIONAL DAMAGE.
8. ALL BRANCH CABLING IS 1/2" AIR DIELECTRIC CABLE WITH PLENUM RATING TO BE INSTALLED AND SECURED PER MANUFACTURER RECOMMENDATIONS.
9. RADIO AMPLIFICATION UNIT (RAU) BY TOWERIQ MODEL TAC-R414 OR CURRENT MODEL. RAU MUST BE LOCATED IN TWO HOUR RATED ROOM.
10. ALL COAXIAL CONNECTORS ARE TO BE N-TYPE CONNECTORS.
11. WHERE ANY ELECTRICAL AND R/F CONNECTION IS MADE, PHYSICAL ACCESS MUST BE AVAILABLE.
12. RAU REQUIRES A L5 30R ELECTRICAL CONNECTION TO LIFE SAFETY SOURCE. PROVIDE WITH A LOCKABLE FUSE DISCONNECT.
13. ALL INSTALLED CABLING AND COMPONENTS, WHERE PHYSICALLY ACCESSIBLE ARE TO BE LABELED "EMERGENCY RESPONDER COMMUNICATIONS USE," AT A MINIMUM INTERVAL OF 6'.
14. RAU MIST BE PROVIDED WITH INTERNET CONNECTIVITY VIA RJ-45 RECEPTACLE.
15. WHEN ENCASED IN THE DECK ALL CABLES MUST BE INSTALLED IN PROPERLY SIZED CONDUIT WITH CONSIDERATIONS FOR PULL BOXES, TURN CONNECTORS AND OTHER IN-LINE DEVISES.
16. PROVIDE FUSE QUANTITIES AND SIZES AS REQUIRED FOR SYSTEM.
17. PROVIDE WIRING AND CONDUIT AS REQUIRED.
18. NEW YORK STATE APPROVED CABINET WITH NYS/FDNY KEY AND LOCKABLE DOOR. (FCO).
19. 5-#10 IN 1"C.
20. 4-#4 & 1-#6 GND IN 1-1/4"C FROM 3P-60A CB IN PANELBOARD. QUANTITY OF PHASE CONDUCTORS SHOWN FOR INFORMATION ONLY. PROVIDE NUMBER OF PHASE CONDUCTORS AS REQUIRED.
21. 60AS/60AF. SIZE OF FUSES SHOWN FOR INFORMATION ONLY. SIZE FUSES AND PROVIDE NUMBER OF FUSES AS REQUIRED.
22. ERRCS DISCONNECT SWITCH.
23. SEE FLOOR PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS. RISER IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANT WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM A SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

RISER NOTES:

1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.

3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.

4.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.

5.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE TWENTY (20) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.

6.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.

7.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.

8.) CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL SEND A SUPERVISORY ALARM SIGNAL TO THE FACP. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY, UON. 2

9.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.

10.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.

11.) DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

12.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS. ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.

13.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

RFI 103

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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STATE OF NEW YORK · STEVEN ABBATTISTA · LICENSED PROFESSIONAL ENGINEER · 077237

No.	Date	Issue
9	04/15/2025	PERMIT REVISIONS
8	12/03/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUE FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
FIRE ALARM & FIRE RADIO RISER DIAGRAM

Job No. NKGD0207.00	Date 02/25/2025
Scale AS NOTED	Drawn / Checked LM / MR/DS

Sheet Number
E-502

LIGHTING FIXTURE SCHEDULE

RFI 101

FIXTURE DESIGNATION	MOUNTING	MANUFACTURER	CATALOG NUMBER	LUMENS	LAMPS	VOLTS	REMARKS
A	Recessed	ARON	DUOT1-FF-4FA-500-B2-35K9-UNV-DM-E10W-W	500 LM/FT	17.3 W	UNV	CORRIDOR 4' DOUBLE LINED LINEAR FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
AA	Recessed	ARON	DUOT1-DW-DM6-1500-B2-35K8-UNV-DM-E10W-W	1500 LM/FT	12.2 W	UNV	6" DOUBLE LINED LINEAR FIXTURE.
B	Recessed	COLUMBIA	CFP24-55/41/3435/4100-PLD10M	4,069 LM	39 W LED	UNV	2' X 4' LED EDGE LIT FLAT PANEL. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
B2	Recessed	COLUMBIA	CFP14-55/41/3440/4100-PLD10M	5,035 LM	40 W LED	UNV	2' X 2' LED EDGE LIT FLAT PANEL. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
C8	Pendant	FOCAL POINT	FSM2LS-FL-750LF-35K-1C-UNV-LD1-C24-EM-WH-8'	750 LM/FT	56 W LED	UNV	8' LINEAR LED PENDANT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
C10	Pendant	FOCAL POINT	FSM2LS-FL-750LF-35K-1C-UNV-LD1-C24-EM-WH-10'	750 LM/FT	70 W LED	UNV	10' LINEAR LED PENDANT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
C14	Pendant	FOCAL POINT	FSM2LS-FL-750LF-35K-1C-UNV-LD1-C24-EM-WH-14'	750LM/FT	98 W LED	UNV	14' LINEAR LED PENDANT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
D	Recessed	PRESCOLITE	LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL	3,000 LM	32.7 W LED	120V	4" ROUND LED DOWNLIGHT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
D2	Recessed	PRESCOLITE	LF4ML-DM1-120-EMR / 4LFML30L-35K-8-SP-WT-CL	3,000 LM	32.7 W LED	120V	4" ROUND LED DOWNLIGHT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
D3	Recessed	LIGHTOLIER	FD4R30K Accessory: FD4NCP	700 LM	11 W LED	120V	4" ROUND LED DOWNLIGHT WITH NC PLATE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
E	Recessed	PRESCOLITE	LF6SL-DM1-120-EMR 6LFSL-15L-35K-8-SP-FLU-WT-DL	1,013 LM	12.6 W LED	120V	6" LED DOWNLIGHT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
EE	Surface	BEGA	66 655	652 LM	7.9 W LED	120V	4" EXTERIOR LED LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
F	Pendant	FOCAL POINT	ASM1TBP-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-CHR	3,150 LM	24.2 W LED	UNV	6" DIAMETER 'Y' SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT.
F2	Pendant	FOCAL POINT	ASM1TBP-6-BWRL-12-900DN-2250UP-35K-1C-UNV-LD1-J48-BKCD-SLG	3,150 LM	24.2 W LED	UNV	6" DIAMETER 'Y' SHAPED LED PENDANT. COORDINATE FIXTURE COLOR WITH ARCHITECT.
G	Surface	COLUMBIA	MPS-4-35-MW-C-W-ED-U-ELL14H2	3,600 LM	26.7 W LED	UNV	4' LINEAR LED WALL MOUNTED LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
G2	Pendant	COLUMBIA	MPS-4-35-MW-C-W-ED-U-ELL14H2 w/ CSHC	3,600 LM	26.7 W LED	UNV	4' LINEAR LED PENDANT LIGHT FIXTURE. PROVIDE CHAIN HANGER ASSEMBLY. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
H	Pendant	DAY-BRITE	RBX-20L-840-UNV-WT-EMLED-ARR22 w/ 22FL-WGA22	20,000 LM	159 W LED	UNV	HIGH BAY 22" LED GYMNASIUM LIGHT FIXTURE. PROVIDE 22" CLEAR ACRYLIC STANDARD REFLECTOR. PROVIDE 22" FLAT ACRYLIC LENS AND SPRING CLAMP BAND WITH 22" WIRE GUARD. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
J	Recessed	AXIS	BBRLED-400-80/B35-FL-12-CB210946(#3)-W-UNV-DP-1-TB9-B(2)	400 LM/FT	38.7 W LED	UNV	12' LED LINEAR LOBBY LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K1	Surface	ARON	EZT1-F9-2FA-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' 'TETRIS STICK' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K2	Surface	ARON	EZT1-F9-2x2-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' x 2' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K3	Surface	ARON	EZT1-F9-2x4-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' x 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K4	Surface	ARON	EZT1-F9-4x4-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	4' x 4' LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K5	Surface	ARON	EZT1-F9-2x2L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' x 2' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K6	Surface	ARON	EZT1-F9-2x4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	2' x 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K7	Surface	ARON	EZT1-F9-4x4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	4' x 4' L SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K8	Surface	ARON	EZT1-F9-4x12Lx4L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	Z SHAPED LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
K9	Surface	ARON	EZT1-F9-12x4Lx1L-850-B1-35K8-UNV-DM-E10W-BLK	850 LM/FT	19.3 W LED	UNV	CUSTOM SHAPE LED LIGHT FIXTURE. COORDINATE FIXTURE SHAPE WITH ACHITECT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
L	Surface	Lumenwerx	POECHROS-36-D-ULO-FH-FS-80- -40-120-D1-1C-SUR-AL-LIN-AL-CYN	4,500 LM	46 W LED	120V	PERFORATED LED GYMNASIUM LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
M8	Recessed	AXIS	BBRLED-400-80/B35-1.5M-8-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	8' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
M10	Recessed	AXIS	BBRLED-400-80/B35-1.5M-10-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	10' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
M12	Recessed	AXIS	BBRLED-400-80/B35-1.5M-12-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	12' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
M14	Recessed	AXIS	BBRLED-400-80/B35-1.5M-14-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	14' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
M16	Recessed	AXIS	BBRLED-400-80/B35-1.5M-16-W-UNV-DP-1-TB9-B	400 LM/FT	37.1 W LED	UNV	16' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
N	Recessed	PRESCOLITE	LFR-4RD-M-15L-35K-8-WD-DM1-120 / LFR-4RD-T-SH-WT-ACL / LFR-4RD-H	1,500 LM	11.8 W LED	120V	4" ROUND LED SHOWER LIGHT FIXTURE. PROVIDE 'SH' TRIM STYLE.
P	Recessed	DAY-BRITE	2-FPZ-42B-835-4-DS-UNV-DIM	4,200 LM	32.6 W LED	UNV	2' X 4' LED LIGHT FIXTURE.
P2	Recessed	DAY-BRITE	2-FPZ-38B-835-2-DS-UNV-DIM-BSL10LST	3,800 LM	30 W LED	UNV	2' X 2' LED LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
Q	Recessed	BEGA	77 125	568 LM	5.7 W LED	120V	EXTERIOR RATED 8" LED TREE UPLIGHT.
R	Surface	LITHONIA	WSTLED-P2-30K-VF-120-PBBW -E7WH-DBLXD	3,000 LM	25 W LED	120V	EXTERIOR RATED OVER DOOR SCONCE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
S	Surface	KENALL	RHR15-W-PP-25L35K-DV-PH	2,941 LM	25 W LED	UNV	STAIRWELL WALL SCONCE LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
T	Surface	BROWNLEE	5057-27-H16-35K	1,657 LM	16 W LED	120V	27" LED LINEAR WALL MOUNTED LIGHT FIXTURE.
T1	Surface	BROWNLEE	5057-39-H16-35K	1,657 LM	16 W LED	120V	39" LED LINEAR WALL MOUNTED LIGHT FIXTURE.
U	Surface	BEGA	99 522	6,855 LM	47.2 W LED	120V	EXTERIOR RATED POLE MOUNTED LED LIGHT FIXTURE.
V	Pendant	FOCAL POINT	FLCY2-RD-BKG-500L-35K-1C-UNV-DSC-LD1-C72-DNT-NFL-EMR-CD-WH-WH	500 LM	8.5 W LED	UNV	2" ROUND LED DECORATIVE PENDANT. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
W	Pendant	BEACON	SRT2-50W-3K8-5QW-UNV-BLT-NXWS12F	5,700 LM	50 W LED	UNV	18.5" ROUND LED LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
X	Semi-Recessed	FLUXWEX	TC1-J-05-G-K1-S-W-N-90-35-16W-F2-M-B	2,350 LM	16 W LED	UNV	5.5" ROUND SEMI-RECESSED ADJUSTABLE LED LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
Y	Surface	BEGA	B84430	364 LM	8 W LED	120V	BOLLARD EXTERIOR RATED LIGHT FIXTURE.
Z	Surface	LUCETTA LIGHTING	VIP24V-SE-ENC-250-30 DRIVER: DI-ODX-24V96W-J	-	5.6 W/FT	24V	LED ROPE LIGHTING FOR SIGNAGE. PROVIDE OMNIDRIVE X DRIVER. COORDINATE LENGTH OF LIGHT FIXTURE WITH ARCHITECT.
ZZ	Surface	ACCLAIM LIGHTING	AGH-241-D-P-B-N(0-10V-UG-DM)	419 LM/FT	9 W/FT	120V	4' LED LINEAR LIGHT FIXTURE. WHERE INDICATED"EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) ALL LIGHT FIXTURES TAGGED AS "EM" SHALL BE FED FROM EMERGENCY POWER PANELS. THESE FIXTURES SHALL BE SWITCHED AS INDICATED ALONG WITH LIGHTING FIXTURES FED FROM NORMAL POWER SOURCES UNLESS ALSO TAGGED AS "NL". UPON LOSS OF NORMAL POWER, EMERGENCY LIGHT FIXTURES SHALL BE AUTOMATICALLY SHUNTED TO FULL BRIGHT REGARDLESS OF STATE OF CONTROLLING SWITCH. SEE DETAIL FOR ADDITIONAL INFORMATION.

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER 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 DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1.) OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A.) CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
B.) FOR PROJECTS WITH SEVEN OF FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
C.) FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.
FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
i.) WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
ii.) THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
iii.) FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
iv.) FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
v.) THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

2.) TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

A.) CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
B.) PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
C.) VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
D.) VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
E.) VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
F.) SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
ii.) THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
G.) SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
i.) NONEXEMPT LIGHTING TURNS OFF.
ii.) MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.

3.) DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

A.) CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
B.) DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
C.) THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

II. DOCUMENTATION REQUIREMENTS

DOCUMENTS CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET DOCUMENTED PERFORMANCE CRITERIA ARE TO BE PROVIDED TO THE BUILDING OWNER AND ENGINEER WITHIN 60 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

LVAV PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	GYMNASIUM VIDEO PROJECTOR	30	2	1	20	AV CLOS 107A - AVV RACK EQPT	2
3				-	-	-	4
5	-	-	-	1	20	DATA 205A - AVV RACK EQPT	6
7	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	AV CLOS 107A - AVV RACK EQPT	8
9	CONF 103B - AVV EQUIPMENT	20	1	1	20	CONF 103B - AVV EQUIPMENT	10
11	-	-	-	-	-	-	12
13	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	14
15	-	-	-	-	-	-	16
17	-	-	-	-	-	-	18
19	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30
31	AV CLOS 107A - AVV RACK EQPT	20	1	1	20	DATA 205A - AVV RACK EQPT	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	DATA 205A - AVV RACK EQPT	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

F O O D S E R V I C E E Q U I P M E N T S C H E D U L E

MK.	QTY	DESCRIPTION	ELECTRICAL: FLA	KW	HP	VOLTS	PHASE	DIRECT	PLUG	MODEL NUMBER	NEMA	CIRCUIT BREAKER	PANEL	WIRE SIZE	REMARKS
1	3	DOUBLE DOOR REFRIGERATION	3.4	^	1/2	120	1	^	X	A-49R-HC-54"	5-15P	1P-20A	PSPA-13, PSPA-14 & PSPA-15	2-#12 & 1-#12 GND IN 3/4"C.	BASEMENT STORAGE ROOM.
2	2	ICE MAKER	9.4	^	^	120	1	^	X	A-KMC-H-530-A	5-15P	1P-20A	PSPA-12 & PS2C-10	2-#12 & 1-#12 GND IN 3/4"C.	BASEMENT STORAGE & SECOND FLOOR PANTRY.
3	1	SINGLE DOOR REFRIGERATOR	1.37	^	1/3	120	1	^	X	A-23R-HC-29"	5-15P	1P-20A	PS2C-9	2-#12 & 1-#12 GND IN 3/4"C.	SECOND FLOOR PANTRY.
4	1	UNDER COUNTER DISHWASHER	24.7	^	^	208	1	X	^	DISHSTAR HT-E	^	2P-35A	PS2C-19,21	3-#10 & 1-#10 GND IN 3/4"C.	SECOND FLOOR PANTRY.
5	1	COFFEE MAKER	15	1.8	^	120	1	^	X	ALPHA-3GT	5-15P	1P-15A	PS2C-20	2-#12 & 1-#12 GND IN 3/4"C.	SECOND FLOOR PANTRY.
6	1	MICROWAVE	^	2.1	^	208	1	^	X	#180MWASHD21	6-20P	2P-20A	PS2C-22,24	3-#12 & 1-#12 GND IN 3/4"C.	SECOND FLOOR PANTRY.
7	1	HEATED BANQUET CABINET	13.8	1.65	^	120	1	^	X	MED-180-QH-180	5-15P	1P-20A	PS2C-23	2-#12 & 1-#12 GND IN 3/4"C.	SECOND FLOOR PANTRY.
8	1	WARMING CABINET	^	1.44	^	120	3	^	X	DVS DURAVEND 5C COMBO	5-15P	1P-20A	PS2C-25	2-#12 & 1-#12 GND IN 3/4"C.	SECOND FLOOR PANTRY.

NOTES:

1.) COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENTS, VOLTAGE, PHASE, CONNECTIONS, ETC WITH EQUIPMENT FURNISHED.
2.) COORDINATE MOUNTING HEIGHTS OF ALL RECEPTACLES, SWITCHES, ETC WITH ARCHITECT.
3.) COORDINATE ALL FOOD SERVICE EQUIPMENT LOCATIONS WITH ARCHITECT.

DESIGN INTENT - LIGHTING CONTROL SYSTEM

1.) LIGHTING CONTROL SYSTEM IS BASED ON ATHENA BY LUTRON (PAUL DERBINSKY (TEL: (201)410-1327) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURES ARE NLIGHT & COOPER LIGHTING.)

2.) LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR DELEGATED DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3.) THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

4.) ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.

PSPB PANEL SCHEDULE

MAIN RATING: 400A MAIN C.B.: 400A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	DRY VALVE AIR COMPRESSOR	20	2	2	20	UH-1 - MECH B06	2
3							4
5	UH-1 - MECH B04	20	2	2	20	UH-1 - STOR B04	6
7							8
9	EF-1 - MECH B06	15	1	1	15	EF-3 - MECH B06	10
11	SUMP PUMP CONTROL PANEL	20	1				12
13	EF-3 - STOR B04	15	1	3	15	CUH-1 - STAIR D	14
15	WH-1 - MECH B06	20	1				16
17	AP-7 - MECH B06	20	1				18
19	B-1 EEV KIT - MECH B06	15	2	3	20	AH-1 - MECH B06	20
21							22
23	EF-5 - MECH B06	35	1	1	20	MOTORIZED DAMPERS	24
25	HRU-B-1 - MECH B06	15	2				26
27				3	15	GPP-1 - MECH B06	28
29	VENTILATION CONTROLLER	15	1				30
31	P-1 - MECH B06	20	1	1	20	P-2 - MECH B06	32
33	P-3 - MECH B06	20	1	1	20	P-4 - MECH B06	34
35	P-5 - MECH B06	20	1	1	20	P-6 - MECH B06	36
37	P-7 - MECH B06	20	1	1	20	P-8 - MECH B06	38
39	P-9 - MECH B06	20	1	1	20	P-10 - MECH B06	40
41	GMU-1 - MECH B06	20	1	1	20	HEAT TRACE - MECH B06	42
43	EF-2 - MECH B06	25	2	1	20	EF-3 - MECH B06	44
45							46
47				3	45	SP-1 - MECH B06	48
49	SP-2 - MECH B06	45	3				50
51				1	20	ESP-1 CONTROL PANEL	52
53	ESP-1 - ELEVATOR PIT	20	1	-	-	-	54
55	-	-	-	-	-	-	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66
67	SPARE	20	1	1	20	SPARE	68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PSEL PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - ELEVATOR LIGHT	20	1	-	-	-	2
3	-	-	-	-	-	-	4
5	EMR SHUNT TRIP	20	1	1	20	J-BOX FIRE CURTAINS	6
7	ELEV CAB LIGHTING	20	1	1	20	J-BOX FIRE CURTAINS	8
9	-	-	-	1	20	ELEVATOR RECEPTACLE	10
11	-	-	-	-	-	-	12
13	-	-	-	-	-	-	14
15	-	-	-	-	-	-	16
17	-	-	-	-	-	-	18
19	-	-	-	-	-	-	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	-	-	-	-	-	-	26
27	-	-	-	-	-	-	28
29	-	-	-	-	-	-	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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KG+D ARCHITECTS, PC
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CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL SCHEDULES

Job No. NKGD0207.00 | Date 03/01/2024
Scale AS NOTED | Drawn / Checked JJ / ML/DS

Sheet Number

E-601

PS1C PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - MEETING 112	20	1	1	20	REC - DATA 111	2
3	REC - CORRIDOR C101	20	1	1	20	REC - RECREATION GAME RM	4
5	REC - MEN 110/WOMEN 109	20	1	1	20	REC - RECREATION GAME RM	6
7	REC - ART/CRAFTS 108	20	1	1	20	REC - ART/CRAFTS 108	8
9	REC - COMPUTER/GAMING 107	20	1	1	20	REC - COMPUTER/GAMING 107	10
11	REC - LOBBY 101/ STOR 113A	20	1	1	20	REC - CONFERENCE 103B	12
13	REC - OPEN OFFICE 103	20	1	1	20	REC - OPEN OFFICE 103/103A	14
15	HWCP-1 - JAN 104	20	1	1	20	JBOX - MEN 110/ WOMEN 109	16
17	HAND DRYER - MEN 110	20	1	1	20	HAND DRYER - WOMEN 109	18
19	HAND DRYER - TOILET 105	20	1	1	20	JBOX - FIRE CURTAIN	20
21	REC - MECH 112A	20	1	2	15	VRF-1 - OPEN OFFICE 103	22
23	CP-1 - OPEN OFFICE 103	15	1				24
25	CP-1 - COMPUTER GAMING	15	1	1	15	CP-1 - ARTS/CRAFTS 108	26
27	CP-1 - REC RM 106	15	1	1	15	CP-1 - MECH 112A	28
29	J-BOX - TOILET 105	20	1	1	20	REC - WOMEN 109	30
31	GYM PA PANEL	20	1	1	20	REC - DATA 111	32
33	BUILDING PA PANEL	20	1	1	20	REC - STOR 107A	34
35	RESCUE ASSISTANCE PANEL	20	1	1	20	REC - STOR 107A	36
37	TV OUTLET - OFFICE103/LOBBY 101	20	1	2	15	VRF-2 - REC RM 106	38
39	TV OUTLET - COMPUTER GAMING 107	20	1				40
41	TV OUTLET - CONF 103B	20	1	-	-	-	42
43	-	-	-	-	-	-	44
45	-	-	-	-	-	-	46
47	SPARE	20	1	1	20	SPARE	48
49	SPARE	20	1	1	20	SPARE	50
51	SPARE	20	1	1	20	SPARE	52
53	SPARE	20	1	1	20	SPARE	54
55	SPARE	20	1	1	20	SPARE	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS2B PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - VIEWING 200	20	1	1	20	LTG - CORRIDOR C201	2
3	LTG - TRACK 213	20	1	1	20	LTG - TRACK 213	4
5	LTG - TRACK 213	20	1	1	20	LTG - TRACK 213	6
7	LTG - EXTERIOR	20	1	1	20	LTG - TRACK 213	8
9	AP-1/AP-2/AP-3/AP-4/AP-5	20	1	1	20	LTG - TRACK 213	10
11	LTG - TRACK 213 SCONCE	20	1	1	20	TX-1 - GREEN ROOF	12
13	REC - ROOF WP GFI	20	1	1	20	REC - ROOF WP GFI	14
15	TX-2 - ROOF	15	1	1	15	EF-4 - ROOF	16
17	EF-6 - GREEN ROOF	15	1	2	15	RTU-3 ENERGY RECOVERY UNIT	18
19	TX-3 - ROOF	15	1				20
21	RTU-4 EEV KIT	15	2				22
23				3	15	RTU-4 WHEEL	24
25							26
27	RTU-4 SUPPLY FAN	15	3				28
29				3	15	RTU-4 EXHAUST FAN	30
31	TV OUTLET - CONF 212/ 212A/ 212B	20	1				32
33	EEV-R-5	15	2	2	15	EEV-R-6	34
35							36
37	HRU-2-5	15	2	2	15	HRU-2-6	38
39							40
41							42
43	RTU-5 - SUPPLY FAN	15	3	3	15	RTU-6 - SUPPLY FAN	44
45							46
47				-	-	-	48
49	RTU-7 - SUPPLY FAN	20	3	-	-	-	50
51				-	-	-	52
53	-	-	-	-	-	-	54
55	-	-	-	-	-	-	56
57	-	-	-	-	-	-	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66
67	SPARE	20	1	1	20	SPARE	68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS1B PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - GAME ROOM 106	20	1	1	20	LTG-GAMING 107/STOR 107A/113A	2
3	LTG-CONF 103B/103A/104/105	20	1	1	20	LTG - OFFICE 103/VEST 100	4
5	LTG - LOBBY 101	20	1	1	20	LTG - EXTERIOR	6
7	LTG - STAIR B	20	1	-	-	-	8
9	REC - ELEC 113C/ STOR 113D	20	1	1	20	REC - GYMNASIUM 113	10
11	REC - GYMNASIUM 113	20	1				12
13	EF-3 - STOR 113A	15	1	3	15	WH-2	14
15	FTR-2 - LOBBY 101	15	2				16
17				2	15	FTR-2 - LOBBY 101	18
19	FTR-2 - LOBBY 101	15	2				20
21				2	15	VRF-5 - MECH 112A	22
23	VRF-4 - ARTS/CRAFTS 108	15	2				24
25				2	15	VRF-3 - GAMES RM 107	26
27	JBOX - FLUSH VALVES	20	1				28
29	-	-	-	1	20	REC - MENS 110	30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PN1B PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - EAST CORRIDOR 114	20	1	1	20	REC - WATER FOUNTAIN	2
3	REC - GYMNASIUM 113	20	1	1	20	REC - WOMENS LOCKERS	4
5	REC - MENS LOCKERS	20	1	1	20	REC - MECH 122	6
7	REC - FITNESS 123	20	1	1	20	REC - FITNESS 123	8
9	REC - FITNESS 123	20	1	1	20	REC - TREADMILL	10
11	REC - FITNESS 123	20	1	1	20	REC - STOR 113F/123A/ ELEC	12
13	HWCP-1 - MECH 122	20	1	1	20	JBOX - MEN 120	14
15	HAND DRYER - MEN 120	20	1	1	20	JBOX - TOILET 118/WOMEN 116	16
17	HAND DRYER - TOILET 118/116	20	1	1	20	REC - TREADMILL	18
19	REC - TREADMILL	20	1	1	20	REC - TREADMILL	20
21	REC - TREADMILL	20	1	1	20	REC - TREADMILL	22
23	REC - GYM SCOREBOARDS	20	1	1	20	J-BOX - MOTORIZED CURTAINS	24
25	J-BOX - MOTORIZED CURTAINS	20	1	1	20	J-BOX - MOTORIZED CURTAINS	26
27	J-BOX - MOTORIZED CURTAINS	20	1	1	20	J-BOX - MOTORIZED CURTAINS	28
29	J-BOX - MOTORIZED CURTAINS	20	1	1	20	REC - WOMENS LOCKERS	30
31	-	-	-	1	20	REC - WOMENS LOCKERS	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS2C PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - CONF 212B	20	1	1	20	REC - OFFICE 2121A	2
3	REC - OPEN OFFICE 212	20	1	1	20	REC - ELEC/JAN/TOILET	4
5	REC- CORRIDOR/ VIEWING	20	1	1	20	REC - MEN 208/WOMEN 207	6
7	REC - DATA 205A	20	1	1	20	REC - PANTRY 206	8
9	REC - PANTRY REFRIGERATOR	15	1	1	20	REC - PANTRY ICE MAKER	10
11	REC - MULTI-PURPOSE 203	20	1	1	20	REC - MULTI-PURPOSE 202	12
13	REC - MULTI-PURPOSE 202	20	1	1	20	HWCP-1 - JAN 210	14
15	REC - OFFICE 212A	20	1	1	20	HAND DRYER - MEN 208	16
17	HAND DRYER - WOMEN 207	20	1	1	20	JBOX - MEN 208/ WOMEN 207	18
19	PANTRY DISHWASHER	35	2	1	15	REC - COFFEE MAKER	20
21				2	20	REC - MICROWAVE	22
23	REC - HEATING CABINET	20	1				24
25	REC - WARMING CABINET	20	1	1	15	CP-1 - OPEN OFFICE 212	26
27	VRF-6 OPEN OFFICE 212	20	2	1	20	MOTORIZED DAMPERS	28
29				2	15	CU-1 - ROOF	30
31	RTU-7 EEV KIT	15	2				32
33				2	15	CU-3 - ROOF	34
35	SPARE	20	1				36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS1A PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - STAIR A	20	1	1	20	LTG - EXTERIOR	2
3	LTG - MEETING 112/DATA 111	20	1	1	20	LTG - CORR 101/102/103	4
5	LTG - RESTROOMS 110/109	20	1	1	20	LTG - ELEC 113C/STOR 113D	6
7	LTG - ARTS 108/ STOR 108A	20	1	1	20	REC - VENDING MACHINE	8
9	REC - VENDING MACHINE	20	1	1	20	REC - WATER FOUNTAIN	10
11	REC - WATER FOUNTAIN	20	1	1	15	EF-3 - STOR 113D	12
13							14
15	CUH-2 - STAIR A	15	3	3	15	CUH-2 - STAIR B	16
17							18
19	AUTOMATIC DOOR OPERATOR	20	1	1	20	ACCESS CONTROL PANEL	20
21	-	-	-	1	15	HRU-1-2 - RECREATION	22
23	-	-	-			GAME ROOM 106	24
25	HVAC CONTROL PANEL	20	1				26
27	-	-	-	3	20	BLEACHERS	28
29	-	-	-				30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PN1A PANEL SCHEDULE

MAIN RATING: 100A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - EXTERIOR	20	1	1	20	LTG - FITNESS 123	2
3	LTG - ELEC/ STOR/ STOR	20	1	1	20	LTG - LOCKER CORRIDOR 155	4
5	LTG - MECH 122	20	1	1	20	LTG - MEN/WOMEN LOCKERS	6
7	LTG - EAST CORRIDOR 114	20	1	1	20	LTG - GYMNASIUM 123	8
9	LTG - GYMNASIUM 123	20	1	1	20	AP-8 - MECH 122	10
11	UH-1 - MECH 122	20	2	1	15	EF-3 - STOR 113F	12
13				1	20	REC - FITNESS 123	14
15	AUTOMATIC DOOR OPERATOR	20	1	1	20	TV OUTLET - FITNESS 123	16
17	TV OUTLET - FITNESS 123	20	1	1	20	TV OUTLET - FITNESS 123	18
19	TV OUTLET - FITNESS 123	20	1	1	20	MOTORIZED DAMPERS	20
21	J-BOX - BACKBOARD WINCH	30	1	1	30	J-BOX - BACKBOARD WINCH	22
23	J-BOX - BACKBOARD WINCH	30	1	1	30	J-BOX - BACKBOARD WINCH	24
25	J-BOX - BACKBOARD WINCH	30	1	1	30	J-BOX - BACKBOARD WINCH	26
27	HVAC CONTROL PANEL	20	1	1	20	J-BOX - FLUSHVALVES	28
29	REC - FITNESS STORAGE LOCKERS	20	1	-	-	-	30
31	-	-	-	-	-	-	32
33	-	-	-	-	-	-	34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PSPA PANEL SCHEDULE

MAIN RATING: 400A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - PARKING B01	20	1	1	20	LTG - MAIN ELEC ROOM B03	2
3	LTG - STAIR A	20	1	1	20	LTG - STAIR B	4
5	LTG - STAIR D	20	1	1	20	LTG -STOR B04/ OFFICE B05	6
7	LTG - MECH B06	20	1	1	20	REC - MAIN ELEC ROOM B03	8
9	REC - PARKING B01	20	1	1	20	REC - STOR B04/OFFICE B05	10
11	REC - MECH B06	20	1	1	20	REC - ICE MAKER	12
13	REC - REFRIGERATOR	20	1	1	20	REC - REFRIGERATOR	14
15	REC - REFRIGERATOR	20	1	-	-	-	16
17	-	-	-				18
19	JBOX - FIRE CURTAIN	20	1	3	60	FIRE RADIO SYSTEM	20
21	EF-3 - ELEC B03	15	1				22
23	UH-1 - ELEC B03	20	2				24
25				3	15	CUH-1 - STAIR B	26
27							28
29	CUH-2 - STAIR A	15	3	2	20	SITE LIGHTING	30
31							32
33	GENERATOR BLOCK HEATER	20	2	2	20	SITE LIGHTING	34
35							36
37	GENERATOR GFI	20	1	2	40LK	EV CHARGERS	38
39	GENERATOR BATTERY CHARGER	20	1				40
41	FACP	20LK	1	2	40LK	EV CHARGERS	42
43	SITE LIGHTING	20	1				44
45	HVAC CONTROL PANEL	20	1	2	40LK	EV CHARGERS	46
47	EV CHARGERS	40LK	2				48
49				1	15	SITE LIGHTING TIME CLOCK	50
51	PARKING B01 LIGHTING	20	1				52
53	PARKING B01 LIGHTING	20	1	3	20	JBOX - GARAGE DOOR	54
55	-	-	-				56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66
67	SPARE	20	1	1	20	SPARE	68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PS2A PANEL SCHEDULE

MAIN RATING: 200A MAIN C.B.: MLO KAIC RATING: 22KAIC
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	LTG - OFFICES/ELEC/JAN/TOIL	20	1	1	20	LTG - CORRIDOR 204	2
3	LTG - PANTRY/ RESTROOMS	20	1	1	20	LTG - DATA 205A/STOR 205B	4
5	LTG - MULTI-PURPOSE 203	20	1	1	20	LTG -MULTI-PURPOSE 201/202	6
7	REC - TRACK 213	20	1	1	20	REC - TRACK 213	8
9	REC - TRACK 213	20	1				10
11				3	15	CUH-2 - STAIR A	12
13	CUH-1 - STAIR B	15	3				14
15							16
17				3	15	RTU-5 - EXHAUST FAN	18
19	RTU-6 - EXHAUST FAN	15	3				20
21							22
23	DOAS-1 EEV KIT	15	2	3	20	RTU-7 - EXHAUST FAN	24
25							26
27							28
29	DOAS-1 SUPPLY FAN	15	3	3	15	DOAS-1 WHEEL	30
31							32
33							34
35	DOAS-1 EXHAUST FAN	15	3	3	15	DOAS-2 WHEEL	36
37							38
39	DOAS-2 EEV KIT	15	2				40
41				3	15	DOAS-2 EXHAUST FAN	42
43							44
45	DOAS-2 SUPPLY FAN	15	3	2	15	HRU-2-3 - CORRIDOR C201	46
47							48
49	HRU-2-2 - PANTRY 206	15	2	2	15	HRU-2-1 - MULTI-PURPOSE	50
51							52
53	HRU-2-2 - ELEV LOBBY 204	15	2	2	15	CU-2 - ROOF	54
55							56
57	HVAC CONTROL PANEL	20	1	1	20	J-BOX - TOILET 211	58
59	REC - WATER FOUNTAIN	20	1	1	20	REC - TERRACE WP GFI	60
61	REC - TRACK SCOREBOARD	20	1	1	20	GYMNASIUM PROJECTOR SCREEN	62
63							64
65	ERV-1	25	3	3	25	ERV-2	66
67							68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72
73	SPARE	20	1	1	20	SPARE	74
75	SPARE	20	1	1	20	SPARE	76
77	SPARE	20	1	1	20	SPARE	78
79	SPARE	20	1	1	20	SPARE	80
81	SPARE	20	1	1	20	SPARE	82
83	SPARE	20	1	1	20	SPARE	84

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

KG+D listen imagine build

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Hawthorne, NY 10532
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CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

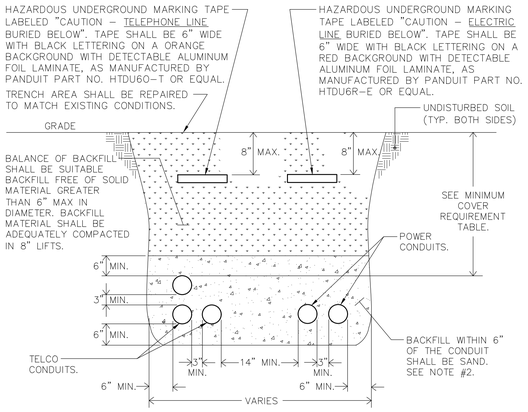
Sheet Title

ELECTRICAL SCHEDULES

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked JJ / ML/DS

Sheet Number

E-602



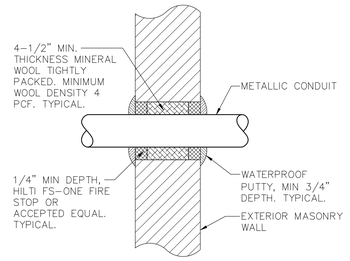
11 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE

MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

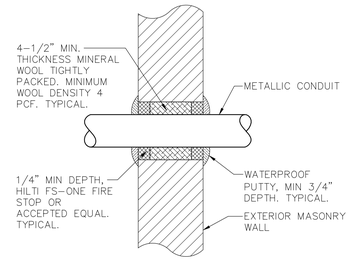
NOTES:

1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.

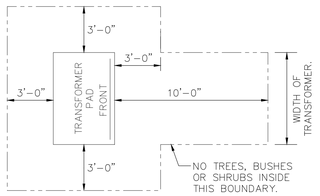
2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.



TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
6 SCALE: NONE



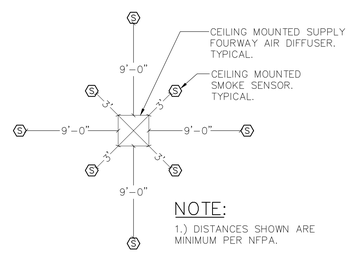
TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
3 SCALE: NONE



TRANSFORMER CLEARANCE NOTES:

1.) AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE WORKING AREA.
2.) UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

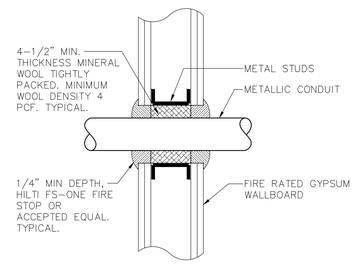
CLEARANCE FOR PLANTING AROUND TRANSFORMER PAD
10 SCALE: NONE



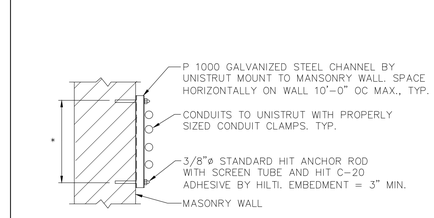
NOTE:

1.) DISTANCES SHOWN ARE MINIMUM PER NFPA.

CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
8 SCALE: NONE

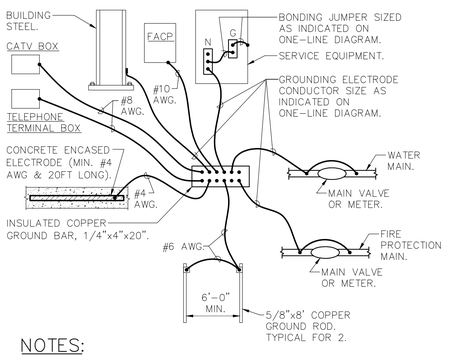


TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
5 SCALE: NONE



* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

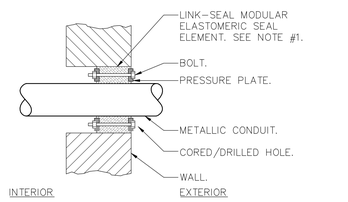
TYPICAL CONDUIT SUPPORT ON MASONRY
2 SCALE: 1" = 1'-0"



NOTES:

1.) CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
2.) ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMODATE THE CONDUCTORS.

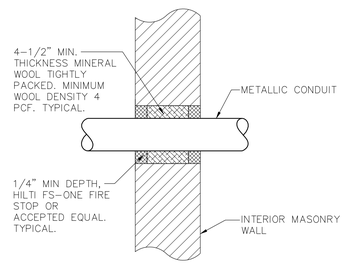
SERVICE GROUNDING DETAIL
9 SCALE: NONE



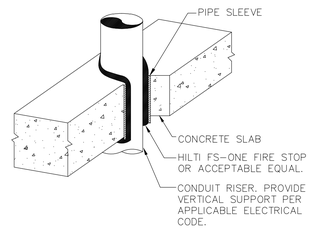
NOTES:

1.) SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2.) PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3.) PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
7 SCALE: NONE



TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
4 SCALE: NONE



TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
1 SCALE: NONE

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

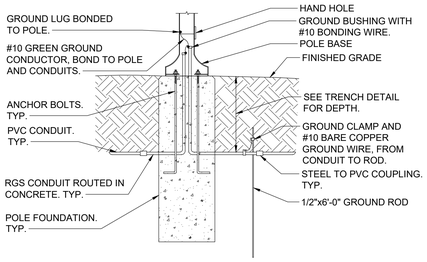
Sheet Title

ELECTRICAL DETAILS

Job No. NKGD0207.00	Date 03/01/2024
Scale AS NOTED	Drawn / Checked JJ / ML/DS

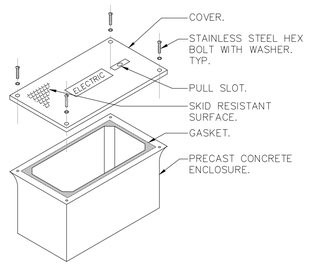
Sheet Number

E-701



NOTE:
1. THIS DETAIL PROVIDES ELECTRICAL GROUNDING/ BONDING AND RACEWAY INFORMATION ONLY. SEE STRUCTURAL DRAWINGS FOR POLE FOUNDATION INFORMATION.

12 LIGHT POST ELECTRICAL INSTALLATION DETAIL
SCALE: NONE



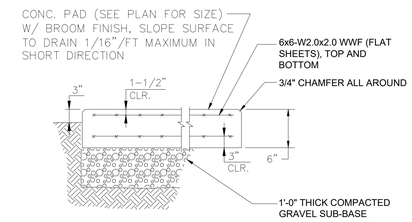
NOTES:

1.) HAND HOLE SHALL BE 18"L x 11"W x 12"H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE, MODEL #PG1118BA12 OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

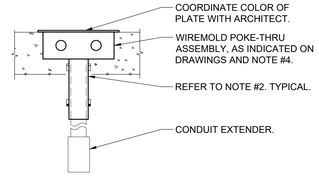
2.) PROVIDE 6" OF GRAVEL BELOW BOX.

3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

9 HAND HOLE DETAIL
SCALE: NONE

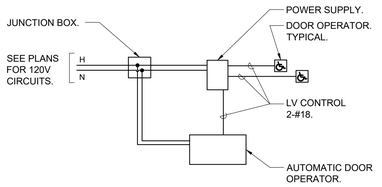


6 CONCRETE PAD DETAIL
N.T.S.



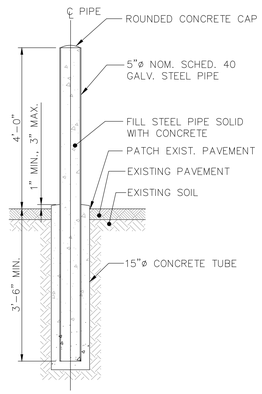
NOTES:
1. FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (STI) SPEC SEAL SSS INTUMESCENT SEALANT OR APPROVED EQUAL.
2. POKE-THRUS SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
4.) POKE THRU MODEL NUMBERS:
   A. POKE THRU WITH (1) DUPLEX 20A RECEPTACLE AND (2) CATEGORY 6 INSERTS WIREMOLD MODEL # RC3ATC OR APPROVED EQUAL.
   B. POKE THRU COMBINATION POWER/DATA/TELEPHONE WITH (2) DUPLEX 20A RECEPTACLES & (4) CATEGORY 6 INSERTS WIREMOLD MODEL #RC4ATC OR APPROVAL EQUAL.

3 POKE-THRU DEVICE INSTALLATION DETAIL
SCALE: NONE

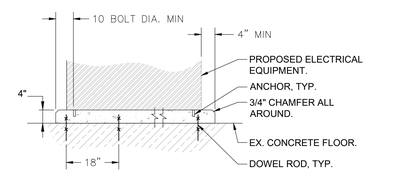


11 TYPICAL ADA DOOR OPERATOR WIRING DIAGRAM
SCALE: NONE

NOTES:
1. ELECTRICAL CONTRACTOR RESPONSIBLE TO PROVIDE ALL LINE AND LOW VOLTAGE CONTROL WIRING FOR ADA DOOR OPERATORS AS PER MANUFACTURER'S INSTRUCTIONS. ADA DOOR OPERATORS AND DEVICES TO BE FURNISHED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. COORDINATE ALL LOCATIONS WITH ARCHITECT.

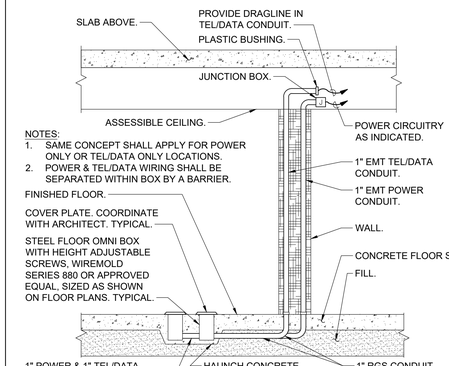


8 TYPICAL BOLLARD ON GRADE DETAIL
SCALE: NONE



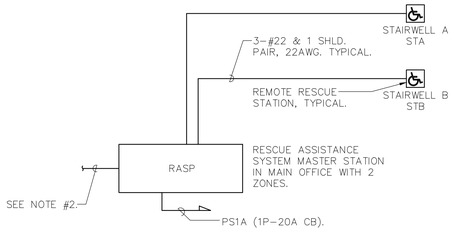
NOTES:
1. CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED BUT NOT LESS THAN 4 INCHES LARGER IN BOTH DIRECTIONS THAN SUPPORTED UNIT, AND SO ANCHORS WILL BE A MINIMUM OF 10 BOLT DIAMETERS FROM EDGE OF THE BASE.
2. USE 3000PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE.
3. ANCHOR EQUIPMENT TO CONCRETE BASE AS FOLLOWS:
   a. INSTALL DOWEL RODS TO CONNECT CONCRETE BASE TO CONCRETE FLOOR. UNLESS OTHERWISE INDICATED, INSTALL DOWEL RODS ON 18-INCH CENTERS AROUND THE FULL PERIMETER OF CONCRETE BASE
   b. PLACE AND SECURE ANCHORAGE DEVICES. USE SUPPORTED EQUIPMENT MANUFACTURER'S SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITEMS TO BE EMBEDDED.
   c. INSTALL ANCHOR BOLTS TO ELEVATIONS REQUIRED FOR PROPER ATTACHMENT TO SUPPORTED EQUIPMENT AND ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

INTERIOR CONCRETE EQUIPMENT PAD DETAIL
5
SCALE: NONE



NOTES:
1. SAME CONCEPT SHALL APPLY FOR POWER ONLY OR TEL/DATA ONLY LOCATIONS.
2. POWER & TEL/DATA WIRING SHALL BE SEPARATED WITHIN BOX BY A BARRIER.

2 FLOOR BOX INSTALLATION DETAIL
SCALE: NONE

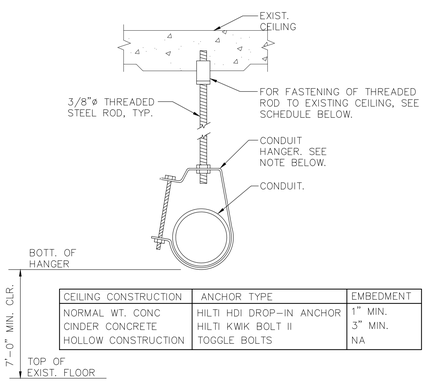


10 RESCUE ASSISTANCE SYSTEM RISER DIAGRAM
SCALE: NONE

NOTES:

1.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED.

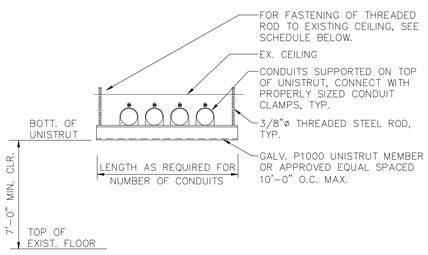
2.) PROVIDE A PHONE LINE PLUS A DIALER FOR RESCUE ASSISTANCE SYSTEM MASTER STATION.



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

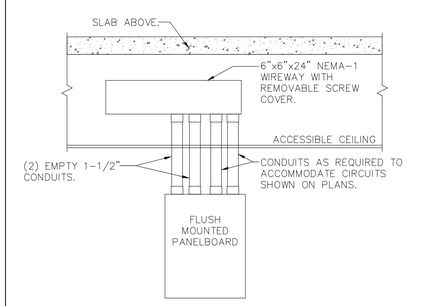
NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

7 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

4 TRAPEZE SUPPORT DETAIL
SCALE: NONE



NOTES:

1.) IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.

2.) CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

1 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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No.	Date	Issue
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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL DETAILS

Job No.	Date
NKGD0207.00	03/01/2024
Scale: AS NOTED	Drawn / Checked: JJ / ML/DS

Sheet Number

E-702

15 KV CABLE TESTING:

1. REFERENCES: ANSI/IEEE C2 – NATIONAL ELECTRICAL SAFETY CODE, ANSI/NFPA 70 – NATIONAL ELECTRICAL CODE, IEEE 48 – TEST PROCEDURES AND REQUIREMENTS FOR HIGH–VOLTAGE ALTERNATING–CURRENT CABLE TERMINATIONS.

2. SUBMITTALS: PROVIDE FOR CABLE, TERMINATIONS, ACCESSORIES & TEST REPORTS. MANUFACTURER'S INSTRUCTIONS: INDICATE APPLICATION CONDITIONS AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.

3. PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL SIZES AND LOCATIONS OF CABLES.

4. OPERATION AND MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR TESTING AND CLEANING CABLE AND ACCESSORIES.

5. QUALIFICATIONS: MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. INSTALLER, COMPANY SPECIALIZING IN INSTALLING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

6. MANUFACTURERS: 1) OKONITE COMPANY, 2) KING WIRE INC. 3) KERITE.

7. FIELD QUALITY CONTROL: INSPECT EXPOSED CABLE SECTIONS FOR PHYSICAL DAMAGE, PROPER CONNECTIONS AS SHOWN ON DRAWINGS AND AS REQUIRED, GROUNDING, CABLE SUPPORTS, AND TERMINATIONS FOR PROPER INSTALLATION. PERFORM DC HIGH POTENTIAL TEST OF EACH CONDUCTOR IN ACCORDANCE WITH NEMA WC 8 AND THE FOLLOWING REQUIRED TESTS.

8. THE 15KV CABLE SHALL BE DC PROOF TESTED BY AN INDEPENDENT TESTING FIRM. THE ATTACHED DC PROOF TESTING FORM SHALL BE COMPLETED BY THE TESTING FIRM AND SUBMITTED FOR REVIEW.

9. TEST LEVELS: A DIRECT–CURRENT VOLTAGE TEST SHALL BE MADE FOR SOLID DIELECTRIC CABLE IN ACCORDANCE WITH THE FOLLOWING TABLE:

RATED CIRCUIT VOLTAGE PHASE TO PHASE KV	DC TEST VOLTAGE KV
15	40

   A. THE VOLTAGE SHALL BE APPLIED BETWEEN THE CONDUCTOR AND THE METALLIC SHEATH, SHIELD OR CONCENTRIC NEUTRAL WIRES.

   B. THE MAXIMUM APPLIED DIRECT–CURRENT VOLTAGE SHALL NOT BE GREATER THAN THREE (3) TIMES THE ALTERNATING CURRENT VOLTAGE RATING OF THE CABLE OR CABLE ACCESSORY.

   C. THE RATE OF INCREASE FROM THE INITIALLY APPLIED VOLTAGE TO THE SPECIFIED TEST VOLTAGE SHALL BE APPROXIMATELY UNIFORM AND SHALL NOT BE OVER 100 PERCENT IN 10 SECONDS OR LESS THAN 100 PERCENT IN 60 SECONDS.

   D. THE DURATION OF THE TEST SHALL BE 15 MINUTES AT FULL VOLTAGE AND THE LEAKAGE CURRENT SHALL NOT BE RECORDED UNTIL AT FULL VOLTAGE. THE CABLE MUST MAINTAIN THE SPECIFIED TEST VOLTAGE FOR THE DURATION OF THE TEST TO BE CONSIDERED ACCEPTABLE.

10. PREPARATION FOR TESTING: THE INDEPENDENT TESTING COMPANY PERSONNEL SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

   A. SAFETY – (TO PRECLUDE ACCIDENTAL CONTACT WITH THE CABLE(S) BEING TESTED)

      1. THE TEST AREA AND THE CABLE (S) UNDER TEST SHALL BE ROPED OFF.

      2. "DANGER–HIGH VOLTAGE" SIGNS SHALL BE DISPLAYED AROUND ALL ROPED OFF AREAS.

      3. TEST PERSONNEL SHALL BE STATIONED AT ALL EXPOSED CABLE TERMINATIONS.

   B. CLEARANCES – THE CABLE UNDER TEST MUST BE COMPLETELY ISOLATED FROM ALL EQUIPMENT.

      1. TO REDUCE LEAKAGE CURRENT DURING TESTING, CLEAN THE TERMINATIONS AND COVER ANY EXPOSED METALLIC SURFACES WITH PLASTIC WRAP OR DUCT SEAL TO REDUCE CORONA EFFECTS.

      2. MAINTAIN A CLEARANCE OF AT LEAST TWO FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS UNDER TEST AND ANY UNENERGIZED SURFACE AND AT LEAST THREE FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS AND ANY ENERGIZED SURFACE (BUS IN SWITCHGEAR, OTHER CIRCUITS OR CABLES, ETC.)

11. GROUNDING:

   A. THE METALLIC SHIELDS (CONCENTRIC NEUTRALS, COPPER OR ZINC TAPES, DRAIN WIRES) OR METALLIC SHEATHS OF SHIELDED CABLE MUST BE GROUNDED DURING THE TEST.

   B. CABLES NOT UNDER TEST MUST BE GROUNDED ON BOTH CONDUCTORS AND METALLIC SHEATHS.

   C. AFTER EACH CABLE TEST THE CABLE SHALL BE ALLOWED TO DISCHARGE TO 10KV OR BELOW BEFORE APPLYING A GROUND. AN APPROPRIATE GROUNDING STICK OR RUBBER GLOVE SHALL BE USED AND/OR WORN WHEN APPLYING THE GROUND. GROUND MUST REMAIN ON FOR AT LEAST 15 MINUTES TO DRAIN CHARGE FROM TESTING.

12. CONNECTIONS

   A. ALL BOLTED TERMINATIONS SWITCHES SHALL BE UNBOLTED AND PULLED INTO CLEARANCES AS NOTED ABOVE.

   B. ALL LEADS EXTENDING FROM THE TOP OF ANY TERMINATION TO OVERHEAD LINES MUST BE REMOVED AND THE TERMINATION LOWERED TO OBTAIN ADEQUATE CLEARANCE.

13. SAMPLE: REPORTING FORM – DC PROOF TESTING

REPORTING FORM – DC PROOF TESTING

TESTING COMPANY NAME_____

CUSTOMER_____

LOCATION_____

DATE OF TEST_____ TESTER'S NAME_____

HUMIDITY_____% TEMPERATURE_____

WEATHER: CLOUDY____ RAIN____ SNOW____

FOG____ SUNNY____

PHASE IDENTIFICATION			
KV TEST VOLTAGE			
MICROAMPERES	μ	μ	μ
TEST SET LEAKAGE			
15 SECONDS			
30 SECONDS			
45 SECONDS			
1 MINUTE			
2 MINUTES			
3 MINUTES			
4 MINUTES			
5 MINUTES			
6 MINUTES			
7 MINUTES			
8 MINUTES			
9 MINUTES			
10 MINUTES			
11 MINUTES			
12 MINUTES			
13 MINUTES			
14 MINUTES			
15 MINUTES			

CABLE MANUFACTURER:_____

CABLE RELATED VOLTAGE:_____

OPERATING VOLTAGE:_____

CONDUCTOR SIZE:_____

TYPE OF INSULATION:_____

NUMBER OF CONDUCTORS:_____

LENGTH:_____

AGE:_____

TYPE OF JACKET:_____

SEPARATE NEUTRAL:_____

OR

CONCENTRIC NEUTRAL WIRES:

TYPE OF TERMINATIONS AT TEST END:_____

_____

_____

TYPE OF TERMINATIONS AT OPPOSITE END:_____

_____

REMARKS:_____

_____

_____

14. PROTECTION:

   A. PROTECT INSTALLED CABLES FROM ENTRANCE OF MOISTURE.

NOTES:

1.) TIMER SHALL BE A DEDICATED 4 ZONE DIGITAL LIGHTING CONTROLLER WITH PHOTO SENSOR INPUT. EACH ZONE SHALL BE CAPABLE OF INDEPENDENT USER SETTABLE CONTROL BASED ON TIME OF DAY, LIGHT LEVEL OR A COMBINATION OF BOTH. TIMER SHALL HAVE CAPABILITY TO BE OVERRIDDEN LOCALLY VIA KEYPAD AND/OR REMOTELY VIA STANDARD TOGGLE SWITCHES. TORK MODEL #DLC400 OR EQUAL.

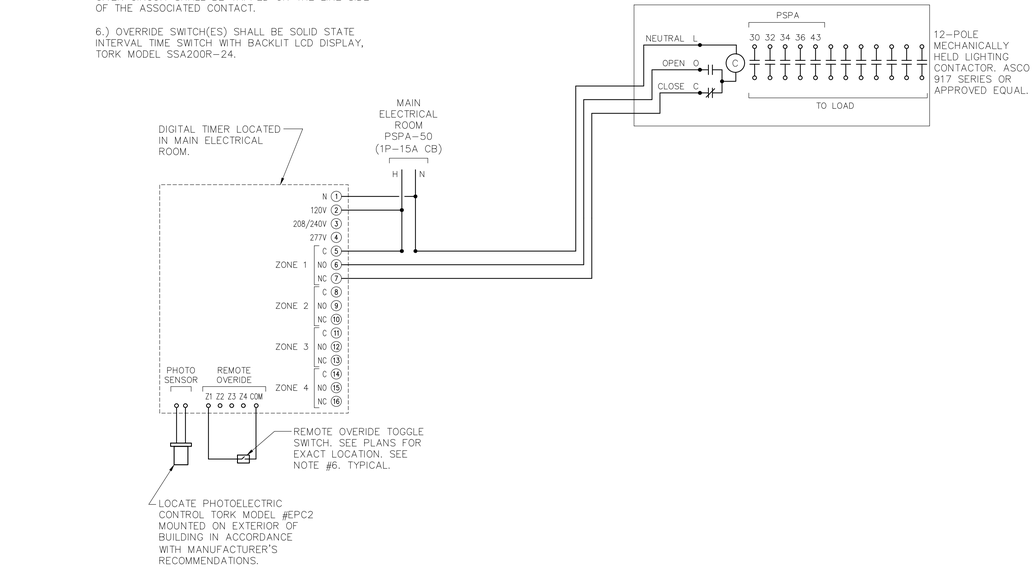
2.) DIGITAL TIMER SHALL BE PROGRAMMED AS FOLLOWS:
ZONE 1: TIMER ON / TIMER OFF
ZONE 2: PHOTOCELL ON / TIMER OFF
ZONE 3: PHOTOCELL ON / PHOTOCELL OFF
ZONE 4: (SPARE)

3.) LIGHTING CONTACTORS SHALL BE LOCATED ADJACENT TO ASSOCIATED PANELBOARDS U.O.N.

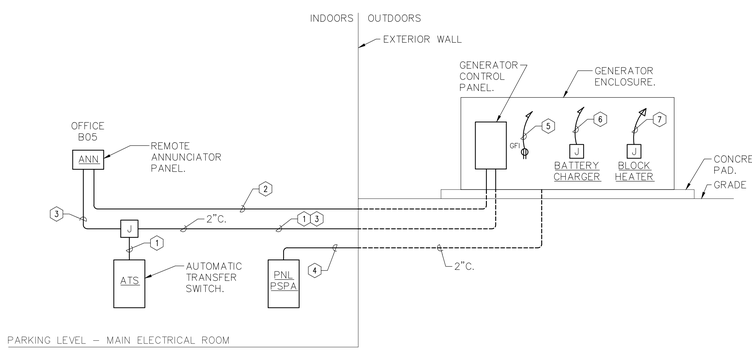
4.) LIGHTING CONTACTORS SHALL BE INSTALLED IN NEMA–1 ENCLOSURES EQUIPPED WITH LOCKABLE HINGED COVERS.

5.) POWER FOR FIXTURES AND CIRCUITS REQUIRED TO BE TAKEN FROM THE UNSWITCHED LEG OF A GIVEN CIRCUIT SHALL BE TAPPED ON THE LINE SIDE OF THE ASSOCIATED CONTACT.

6.) OVERRIDE SWITCH(ES) SHALL BE SOLID STATE INTERVAL TIME SWITCH WITH BACKLIT LCD DISPLAY, TORK MODEL SSA200R–24.



2 SITE LIGHTING CONTROL SCHEMATIC DIAGRAM
SCALE: NONE



1 GENERATOR CONTROL WIRING RISER DIAGRAM
SCALE: NONE

LEGEND:

1. 4–#12 AWG. START CIRCUIT FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR CONTROL PANEL.
2. TWISTED SHIELDED PAIR – BELDEN #9841. COMMUNICATIONS CIRCUIT FROM GENERATOR CONTROL PANEL TO REMOTE ANNUNCIATOR.
3. 2–#12 AWG. POWER FROM GENERATOR SET BATTERY TO REMOTE ANNUNCIATOR.
4. POWER CONDUIT FOR BRANCH CIRCUITS TO GENERATOR SET. SEE CIRCUIT INFORMATION FOR ITEMS 5, 6 & 7 BELOW.
5. PSPA–37
6. PSPA–39
7. PSPA–33,35

NOTES:

1.) WIRING ON THIS DETAIL SHOWN FOR INFORMATIONAL PURPOSES ONLY. COORDINATE EXACT SIZE, QUANTITY AND TYPE OF WIRING WITH MANUFACTURER'S SUGGESTION FOR EQUIPMENT PURCHASED.

2.) CONDUITS SHALL BE 1" U.O.N.

3.) SEE ONE–LINE DIAGRAM FOR POWER OUTPUT FEEDERS INFORMATION.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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Professional Seal

No.	Date	Issue
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

ELECTRICAL DETAILS

Job No.	Date
NKGD0207.00	03/01/2024
Scale	Drawn / Checked
AS NOTED	JJ / ML/DS

Sheet Number

E-703

HARRISON
RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

TELECOMMUNICATION BID SET

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

TELECOMMUNICATION DRAWING LIST

TC-000 TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

FLOOR PLANS
TC-100 TELECOMMUNICATION LOWER LEVEL DEVICE PLAN
TC-101 TELECOMMUNICATION1ST FLOOR DEVICE PLAN
TC-102 TELECOMMUNICATION 2ND FLOOR DEVICE PLAN

RISER DIAGRAMS
TC-200 TELECOMMUNICATION RISER DIAGRAMS

CLOSET DETAILS
TC-300 TELECOM CLOSET TC-1 AND TC-2 ELEVATION AND DETAILS

TYPICALS
TC-700 TELECOMMUNICATION DETAILS - 1
TC-701 TELECOMMUNICATION DETAILS - 2

NOTE TO THE ELECTRICAL CONTRACTOR (EC):
THIS DRAWING BINDER ADDRESSES ITEMS THAT ARE REFERENCED IN DIVISION 26 DRAWINGS AND SPECIFICATIONS. PLEASE REFER TO BOTH DIVISION 26 AND DIVISIONS 27/28 FOR FULL SCOPE AND RESPONSIBILITIES.

EQUIPMENT LIST

MANUFACTURER	DESCRIPTION
OCC	STANDARD SIZE KEYSTONE FACEPLATE, 1 GANG, 1 PORT - P/N: FPKS0112 OR EQUIVALENT.
OCC	STANDARD SIZE KEYSTONE FACEPLATE, 1 GANG, 2 PORT - P/N: FPKS0212 OR EQUIVALENT.
OCC	STANDARD SIZE KEYSTONE FACEPLATE, 1 GANG, 4 PORT - P/N: FPKS0412 OR EQUIVALENT.
OCC	CAT6 RJ45 CONNECTORS - P/N: 2020101J OR EQUIVALENT.
OCC	8-POSITION MODULAR JACK, CAT 6 MODULE, KEYSTONE MOUNT, THERMOPLASTIC, BRIGHT WHITE - P/N: KMJA612 OR EQUIVALENT.
UNIFI	HIGH-PERFORMANCE, CEILING-MOUNTED WIFI 6 ACCESS POINT DESIGNED FOR LARGE OFFICES. 1,500ft² SQ. (WAP) - P/N: U6 Pro OR EQUIVALENT.
EATON	SURFACE-MOUNT BOX FOR KEYSTONE JACKS - 1 PORT, WHITE, SURFACE MOUNT - P/N: NSB2-001-WH OR EQUIVALENT.
ICC	CAT6 FEED-THROUGH PATCH PANEL WITH 48 PORTS - P/N: ICMPP48CP6 OR EQUIVALENT.
ICC	CAT6 FEED-THROUGH PATCH PANEL WITH 48 PORTS AND 2 RMS - P/N: ICMPP48CP6 OR EQUIVALENT.
INS	2U FIBER LIU - P/N: RTC2U-6APB OR EQUIVALENT.
INS	DUPLEX ADAPTER PLATE FOR FIBER LIU - P/N: 6112WMDLC OR EQUIVALENT.
NAVEPOINT	2U HORIZONTAL STEEL CABLE MANAGEMENT RACEWAY 2.5 INCHES DEEP, BLACK - P/N: 004041646 OR EQUIVALENT.
HOFFMAN	LADDER RACK STRAIGHT SECTIONS - P/N: LSS12BLK OR EQUIVALENT.
HOFFMAN	2U HORIZONTAL STEEL CABLE MANAGEMENT RACEWAY 2.5 INCHES DEEP, BLACK - P/N: 004041646 OR EQUIVALENT.
HOFFMAN	CABLETEK VERTICAL CABLE MANAGER DOUBLE FINGERS - P/N: EDR19FM45U OR EQUIVALENT.
HOFFMAN	45U OPEN FRAME RACK 2-POST, BLACK, ALUMINUM - P/N: EDR19FM45U OR EQUIVALENT.
HOFFMAN	VERTICAL CABLE MANAGER DOUBLE, BLACK, ALUMINUM - P/N: DV10DF7 OR EQUIVALENT.
HOFFMAN	TELECOM GROUND BAR KIT - P/N: DGTB212 OR EQUIVALENT.
HOFFMAN	J-HOOK, 2 IN, 60 LB LOAD, STEEL - P/N: CAT32HP OR EQUIVALENT.
SANSPOT	INDOOR, MULTIMODE 50/125, PLENUM, OM2 FIBER CABLE
FCD	OM2 LC LC DUPLEX FIBER PATCH CABLE 50/125 MULTIMODE
REMEE	CATEGORY 6 ENHANCED .550 MHZ PLENUM CABLE - P/N: 6BNS OR EQUIVALENT.

GENERAL NOTES

1. TERMINATE RJ45 JACKS WITH T568B PINNING.

2. FURNISH AND INSTALL ALL TELECOM, A/V AND SECURITY DEVICES SHOWN ON THE DRAWINGS. LABEL ALL CABLES WITHIN 12" OF FINAL TERMINATION.

3. CONTRACTOR SHALL MAINTAIN THE TWIST OF INDIVIDUAL PAIRS TO WITHIN 1/2" OF FINAL TERMINATION FOR ALL

4. USE CATEGORY 6 OR HIGHER CABLES.

5. TECHNOLOGY DRAWINGS ARE TO BE USED FOR CABLE SYSTEM INSTALLATION AND COORDINATION WITH OTHER CONTRACTORS AND SYSTEMS. PRIOR TO THE COMMENCEMENT OF INSTALLATION OF ANY ELEMENTS OF THE CABLE SYSTEM, THE CONTRACTOR:

6. MEET WITH OWNER'S REPRESENTATIVES AND SUBMIT FOR APPROVAL INSTALLATION DETAILS INCLUDING CABLE ROUTING, WORK SCHEDULING, MATERIALS DELIVERY AND ANY OTHER DETAILS PERTINENT TO THE WORK.

7. ALL MATERIAL SHALL BE INSTALLED IN COMPLIANCE WITH ALL CODE REQUIREMENTS, MANUFACTURER'S INSTRUCTIONS AND PRACTICES UNLESS WRITTEN DIRECTION TO THE CONTRARY IS PROVIDED.

8. PROVIDE ALL SLEEVES AS SHOWN ON DRAWINGS UNLESS ALREADY PROVIDED BY ELECTRICAL CONTRACTOR.

9. USE ONLY HOOK AND LOOP CABLE TIES (VELCRO) FOR CABLES WITH HIGHER THAN CATEGORY 3 RATING.

10. ALL LABELS SHALL BE MACHINE PRINTED.

11. USE ONLY PLENUM RATED CABLES.

12. DO NOT RUN TELECOMMUNICATION CABLES PARALLEL TO POWER CABLES. CROSS POWER CABLES ONLY AT RIGHT ANGLES.

13. MAINTAIN 8" DISTANCE FROM ALL LIGHTING TRANSFORMERS.

14. SPLICING OF CABLES IS NOT PERMITTED EXCEPT IF SPECIFICALLY NOTED.

15. COLOR AND STYLE OF TELECOMMUNICATION FACE PLATES SHALL MATCH ELECTRICAL FACE PLATES AND BE COORDINATED WITH ARCHITECT.

16. ALL OUTLET MOUNTING HEIGHTS AS PER ARCHITECT, UNLESS OTHERWISE NOTED.

17. COMPLY WITH ALL BUILDING REGULATIONS AND COORDINATE ACCESS WITH BUILDING MANAGEMENT. OBTAIN ALL REQUIRED APPROVAL FROM BUILDING MANAGEMENT.

18. OBTAIN AND EXTEND TO OWNER ALL AVAILABLE MANUFACTURER AND SYSTEM WARRANTEES.

19. CONTRACTOR SHALL COORDINATE ANY CUTS WITH OWNER'S REPRESENTATIVE PRIOR TO ANY WORK. IN AREAS WITH EXISTING SOLID CEILING CONTRACTOR SHALL CUT AND PATCH OPENINGS TO PERMIT CABLE INSTALLATION.

20. CONTRACTOR SHALL RESTORE CEILING AND WALLS AND ANY OTHER SURFACES AFFECTED BY THE WORK PRIOR TO ACCEPTANCE WITH LIKE MATERIALS TO MATCH EXISTING CONSTRUCTION.

21. CONTRACTOR SHALL REPLACE ANY DAMAGED CEILING TILES AND THEIR SUPPORTING FRAMEWORK STRUCTURE WITH MATCHING MATERIALS IN ACCESSIBLE CEILING AREAS.

22. ALL CABLES RUN ABOVE CEILING SHALL BE PROPERLY SUPPORTED WITH ADJUSTABLE CABLE SUPPORTS MOUNTED TO SLAB AT MINIMUM OF 5' INTERVALS. NO CABLES SHALL REST OR TOUCH CEILING ASSEMBLIES.

23. WHERE BACK TO BACK ELECTRIC/TELECOM OUTLETS ARE INDICATED ON EACH SIDE OF THE SAME PARTITION/WALL, OUTLET BOXES SHALL BE STAGGERED MINIMUM 16" FOR ACOUSTICS.

24. POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR (EC)

25. LOW VOLTAGE CONTRACTOR (LVC) IS TO FURNISH AND INSTALL ALL MATERIALS INCLUDING ,CISCO SWITCHED, FIBER MODULES, WAP, (WIRELESS ACCESS POINT) NEEDED LICENSES ETC. AND PROGRAM ALL TO MEET CUSTOMER'S DIRECTION

CABLING TERMINATION NOTES:

1. AT THE OUTLET, TERMINATE VOICE/DATA UTP CABLES ON THE RJ-45 TYPE JACKS IN THE FACEPLATE / BEZEL / FLOOR BOX.

2. IN THE IDF ROOMS, TERMINATE VOICE/DATA UTP CABLES ON THE CORRESPONDING 48-PORT UTP PATCH PANELS MOUNTED ON THE 19" RACKS.

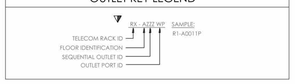
3. ADDITIONAL CABLE SLACK SHALL BE PROVIDED FOR ALL TELECOMMUNICATIONS WORKSTATION CABLING:
   A. MINIMUM OF 10'-0" IN THE SERVING IDF CLOSET.
   B. MINIMUM OF 5'-0" IN OUTLET LOCATIONS WITH A STUB-UP TO A SUSPENDED CEILING;
   C. MINIMUM OF 8" AT THE OUTLET.
   D. MINIMUM OF 10'-0" IN A FIGURE-EIGHT CONFIGURATION AT WAP OUTLET LOCATIONS

4. CABLE SLACK SHALL BE STORED IN AN EXTENDED LOOP OR FIGURE-EIGHT CONFIGURATION..

5. PROVIDE SERVICE LOOP FOR ALL FIBER OPTIC CABLING INSTALLED. CABLE SLACK SHALL BE INSTALLED IN A FIGURE-EIGHT CONFIGURATION.

6. USE APPROPRIATE FIBER TERMINATIONS LIUS. USING LC TYPE CONNECTORS

OUTLET KEY LEGEND



ABBREVIATIONS

ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWG	AMERICAN WIRE GAUGE
°C • • •	DEGREE CELSIUS
EC	EMPTY CONDUIT WITH DRAG LINE
EF	ENTRANCE FACILITY
EIA	ELECTRONIC INDUSTRIES ASSOCIATION
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
ER	EQUIPMENT ROOM
°F • • • •	DEGREE FAHRENHEIT
FCC	FEDERAL COMMUNICATIONS COMMISSION
FEXT	FAR-END CROSSTALK
FL	FLOOR
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FT	FEET, FOOT
HC	HORIZONTAL CROSS-CONNECT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IC	INTERMEDIATE CROSS-CONNECT
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IN	INCHES
LAN	LOCAL AREA NETWORK
LB	POUND
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MHZ	MEGAHERTZ
MM	MULTI-MODE FIBER OPTIC CABLE
NEC(R)	NATIONAL ELECTRICAL CODE(R)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NEXT	NEAR-END CROSSTALK
NFPA(R)	NATIONAL FIRE PROTECTION ASSOCIATION(R)
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PBX	PRIVATE BRANCH EXCHANGE (TELEPHONE SWITCH EQUIPMENT)
PR	PAIR
REQD	REQUIRED
RGC	RIGID STEEL CONDUIT
SC	SUBSCRIBER CONNECTOR (FIBER OPTIC)
SM	SINGLE MODE FIBER OPTIC CABLE
TBB	TELECOMMUNICATION BONDING BACKBONE
TBD	TO BE DETERMINED
TC	TELECOMMUNICATION CLOSET
TIA	TELECOMMUNICATION INDUSTRY ASSOCIATION
TGB	TELECOMMUNICATION GROUNDING BUS BAR
TMGB	TELECOMMUNICATION MAIN GROUNDING BUS BAR
TR	TELECOMMUNICATION ROOM
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED-PAIR
WAP	WIRELESS ACCESS POINT

DRAWING NOTATIONS

	CONDUIT/CONDUIT SLEEVES WITH BUSHING AT EACH END PROVIDED BY ELECTRICAL CONTRACTOR
	LADDER TYPE CABLE TRAY (USED IN SERVER ROOM)
	SERIES 44 EZ PATH FIRE RATED PATHWAY
	PLYWOOD BACKBOARD, 4'W x 8'H, 3/4" THICK, PAINTED WHITE
	SECTION/ELEVATION REFERENCE TAG # - SECTION/ELEVATION NUMBER T-XXX - DRAWING NUMBER

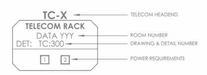
TELECOMMUNICATIONS SYMBOLS

	WIRELESS ACCESS POINT (WAP) CEILING MOUNTED OUTLET. PROVIDE RJ45 JACKS AND CAT 6 UTP CABLES FROM THE DESIGNATED TELECOM ROOM TERMINATED IN A SURFACE MOUNT BOX.
	WALL MOUNTED OUTLET 18" AFF. PROVIDE (2) CAT 6 CABLES AND(2) RJ45 JACKS TO THE DESIGNATED TELECOM ROOM. 1" CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. DOUBLE GANG JUNCTION BOX WITH SINGLE GANG REDUCER PLATE (UON). (CONDUIT AND BACK BOX BY GC)
	FURNITURE MOUNTED OUTLET. PROVIDE (2) CAT 6 CABLES AND (2) RJ45 JACKS FROM THE DESIGNATED TELECOM ROOM. COORDINATE INSTALLATION WITH FURNITURE VENDOR.
W	WALL PHONE OUTLET 48" AFF. PROVIDE (1) CAT 6 CABLE AND (1) RJ45 JACK FROM THE DESIGNATED TELECOM ROOM. 1" CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. DOUBLE GANG JUNCTION BOX WITH SINGLE GANG REDUCER PLATE (UON). (CONDUIT AND BACK BOX BY GC)
	FLOOR MOUNTED OUTLET . PROVIDE (2) CAT 6 CABLES AND(2) RJ45 JACKS TO THE DESIGNATED TELECOM ROOM. SYMBOL SHOWN FOR DATA QUANTITY AND LOCATION ONLY. (FLOOR BOX BY GC)
AV	AUDIO / VIDEO (AV) OUTLET. PROVIDE (1) CAT 6 CABLE, (1) RJ45 JACK AND (1) RG6 COAX CABLE FROM THE DESIGNATED TELECOM ROOM. 1" CONDUIT STUB-UP TO THE NEAREST ACCESSIBLE CEILING. DOUBLE GANG JUNCTION BOX WITH SINGLE GANG REDUCER PLATE (UON). (CONDUIT AND BACK BOX BY GC)
	1-PORT DATA SURFACE MOUNTED OUTLET. PROVIDE RJ45 JACKS AND CAT 6 UTP CABLE FROM THE DESIGNATED TELECOM ROOM TERMINATED IN A SURFACE MOUNT BOX.

POWER REQUIREMENTS

1	**POWER (EMERGENCY CIRCUIT)** CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
2	**POWER (NON-EMERGENCY CIRCUIT)** CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

TELECOM TAG DETAIL



CABLE TYPE/IDENTIFICATION SCHEDULE

ID	MANUFACTURER	PART #	DESCRIPTION
1	REMEE	6BNS	23AWG 4UTP CAT6 NON-SHIELDED, PLENUM, BLUE JACKET

PATHWAY NOTES

1. COORDINATE INSTALLATION OF CONDUITS AND CABLE TRAYS WITH OTHER COMPONENTS INSTALLED WITHIN CEILING. PREPARE SHOP DRAWINGS TO DEMONSTRATE AND ENSURE PROPER INSTALLATION OF ALL COMPONENTS.
2. MAINTAIN MINIMUM BEND RADIUS OF 10X O.D. FOR CONDUITS GREATER THAN 2" DIAMETER. MAINTAIN MINIMUM BEND RADIUS OF 6X O.D. FOR CONDUITS EQUAL TO OR LESS THAN 2" DIAMETER.
3. PROVIDE PULL BOXES (SIZE AS NOTED) AFTER EVERY 100' OF RUN OR AFTER EVERY 180-DEGREES OF BEND.
4. DO NOT INSTALL PULL BOXES IN LIEU OF A BEND. REAM AND BUSH THE ENDS OF ALL CONDUITS. PROVIDE AND LEAVE IN PLACE A PULL STRING IN EACH CONDUIT.
5. PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUND LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
6. GROUND ALL CONDUITS AND LADDER RACK AS PER MANUFACTURERS' RECOMMENDATIONS AND PER ALL APPLICABLE CODES.
7. PROVIDE FURNISH AND INSTALL ALL LADDER RACK, CABLE TRAY LOCATIONS AND CONDUIT SLEEVE LOCATIONS; RUNWAY DROPOFFS, SPLICE HARDWARE, GROUND STRAPS, THERMAL EXPANSION PLATES, TERMINATION KITS, END SUPPORT KITS AND CEILING SUPPORT HARDWARE.
8. REFER TO DISTRIBUTION PLANS FOR REQUIREMENTS FOR JUNCTION BOX AND CONDUITS TO SUPPORT WORKSTATION OUTLETS.
9. WHERE CABLE IS RUN ABOVE NON-ACCESSIBLE (I.E. GYPSUM BOARD) CEILING CONSTRUCTION, INSTALL CONDUIT AND PULLBOXES TO PROPERLY ROUTE CABLE.
10. PROVIDE J-HOOKS AND CABLE STRAPS TO SUPPORT CABLE ABOVE ACCESSIBLE CEILING CONSTRUCTION, EXCEPT IN AREAS WHERE CABLE TRAY OR CONDUIT IS INDICATED.
11. PROVIDE CONDUIT SLEEVES IN PARTITION WALLS FOR CABLING WHERE NO SLEEVES EXIST. CONDUIT CABLE CAPACITY SHALL NOT EXCEED 40%.

CALCULATION BASED UPON 40% FILL @ 0.28 INCH CABLE O.D.

CONDUIT FILL SCHEDULE

CONDUIT SIZE	MAX. No. OF CAT. 6 CABLES ALLOWED		
	No. OF BENDS		
	0 - BENDS	1 - BEND	2 - BENDS
1"	6	5	4
1 1/4"	10	8	7
1 1/2"	13	11	9
2"	22	19	15
2 1/2"	38	32	27
3"	57	49	40
3 1/2"	75	64	52
4"	96	82	67

CONDUIT NOTE

NOTE:

REFER TO ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS.

PATCH CORD SCHEDULE

PROVIDE (1) 3 FOOT, (1) 7 FOOT AND (1) 10 FOOT CAT 6 PATCH CORD FOR EACH CAT-6 CABLE INSTALLED UNDER THIS CONTRACT.

PROVIDE (8) 3M FIBER PATCH CORDS PER DESIGNATED TELECOM ROOM

HARRISON RECREATION & COMMUNITY CENTER

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Town / Village of Harrison

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Harrison, NY 10528

KG+D listen imagine build

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CONSTRUCTION DOCUMENTS

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT

WORK ORDER NO.:
DATE: 12/08/2023
SCALE: N.T.S.
S.A. NO.:
DRAWING NO.: TC-000

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Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

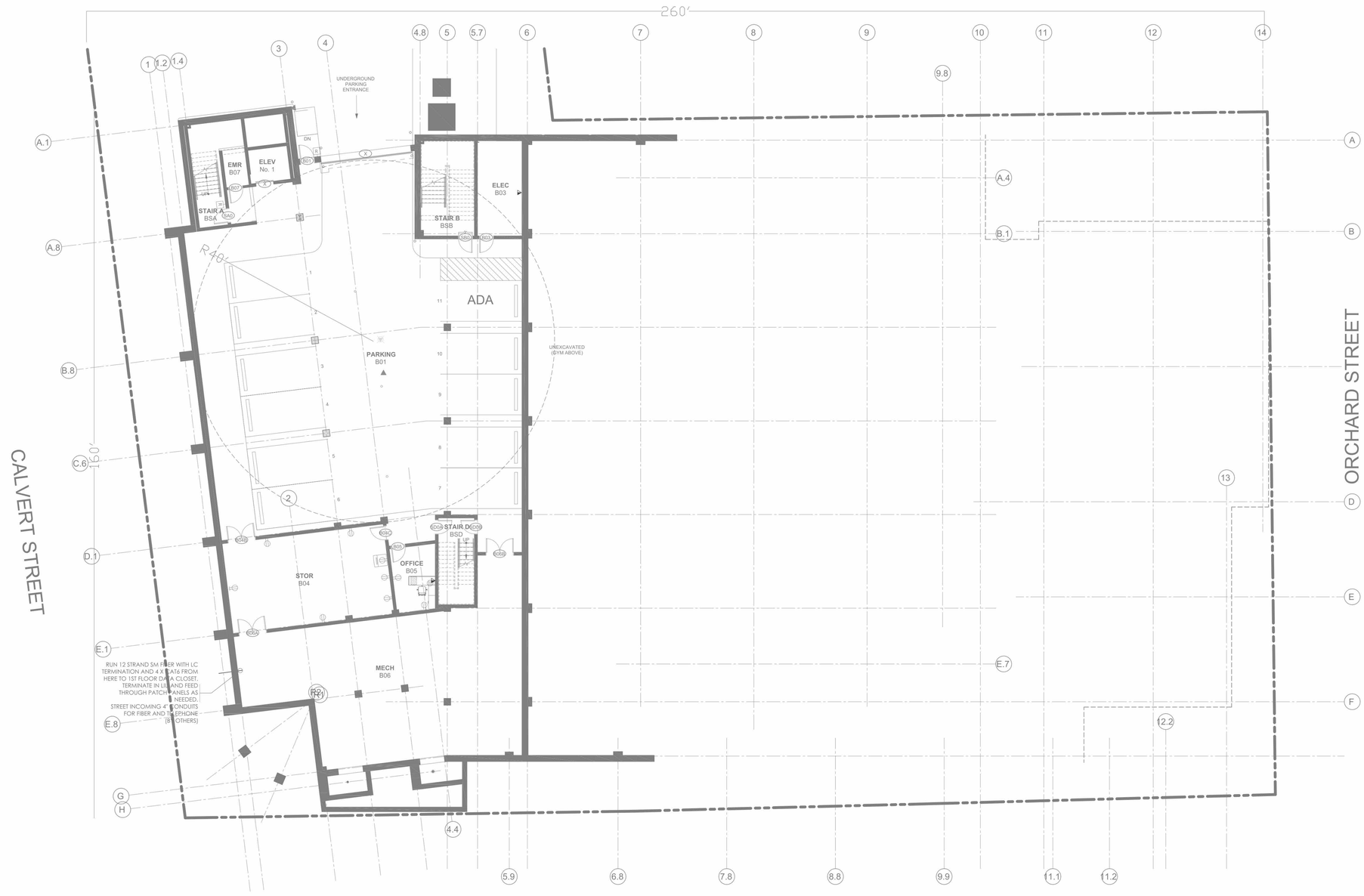
Sheet Title

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

TC000



NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION LOWER LEVEL DEVICE PLAN

JD	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO:
DRAWING NO: TC-100

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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KG+D ARCHITECTS, PC
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Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

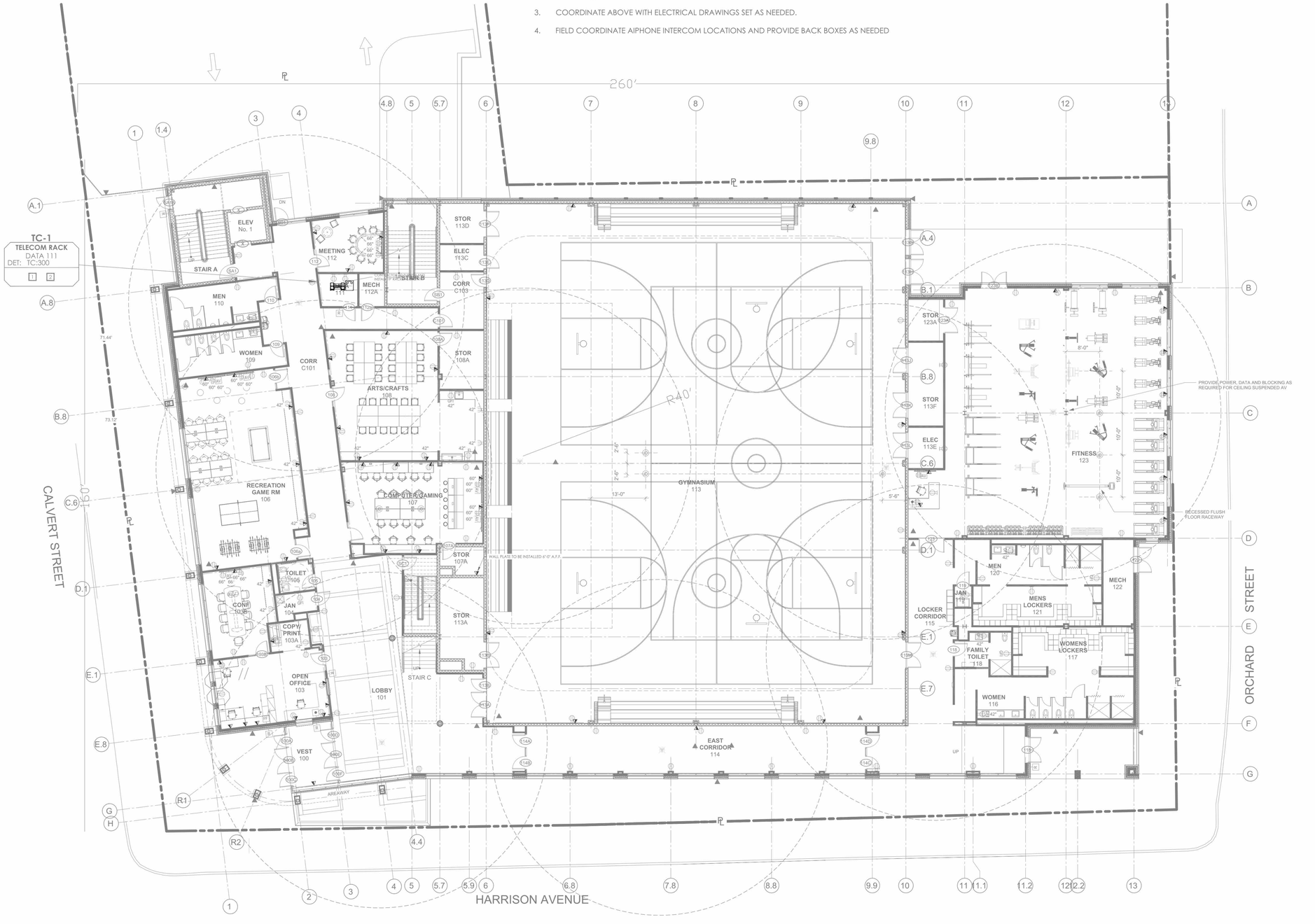
Sheet Title
TELECOMMUNICATION LOWER LEVEL DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number
TC100

NOTES:

1. PROVIDE (2) CAT6 IN ELEVATOR MACHINE ROOM FOR POT LINE EMERGENCY DIALING.
2. PROVIDE (2) CAT6 AT FIRE ALARM CONTROL PANEL (FACP) FOR POT LINE AND NETWORK EMERGENCY DIALING/COMMUNICATION.
3. COORDINATE ABOVE WITH ELECTRICAL DRAWINGS SET AS NEEDED.
4. FIELD COORDINATE AIPHONE INTERCOM LOCATIONS AND PROVIDE BACK BOXES AS NEEDED



NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

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155 Lafayette Ave
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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION 1ST FLOOR DEVICE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO:
DRAWING NO: TC-101

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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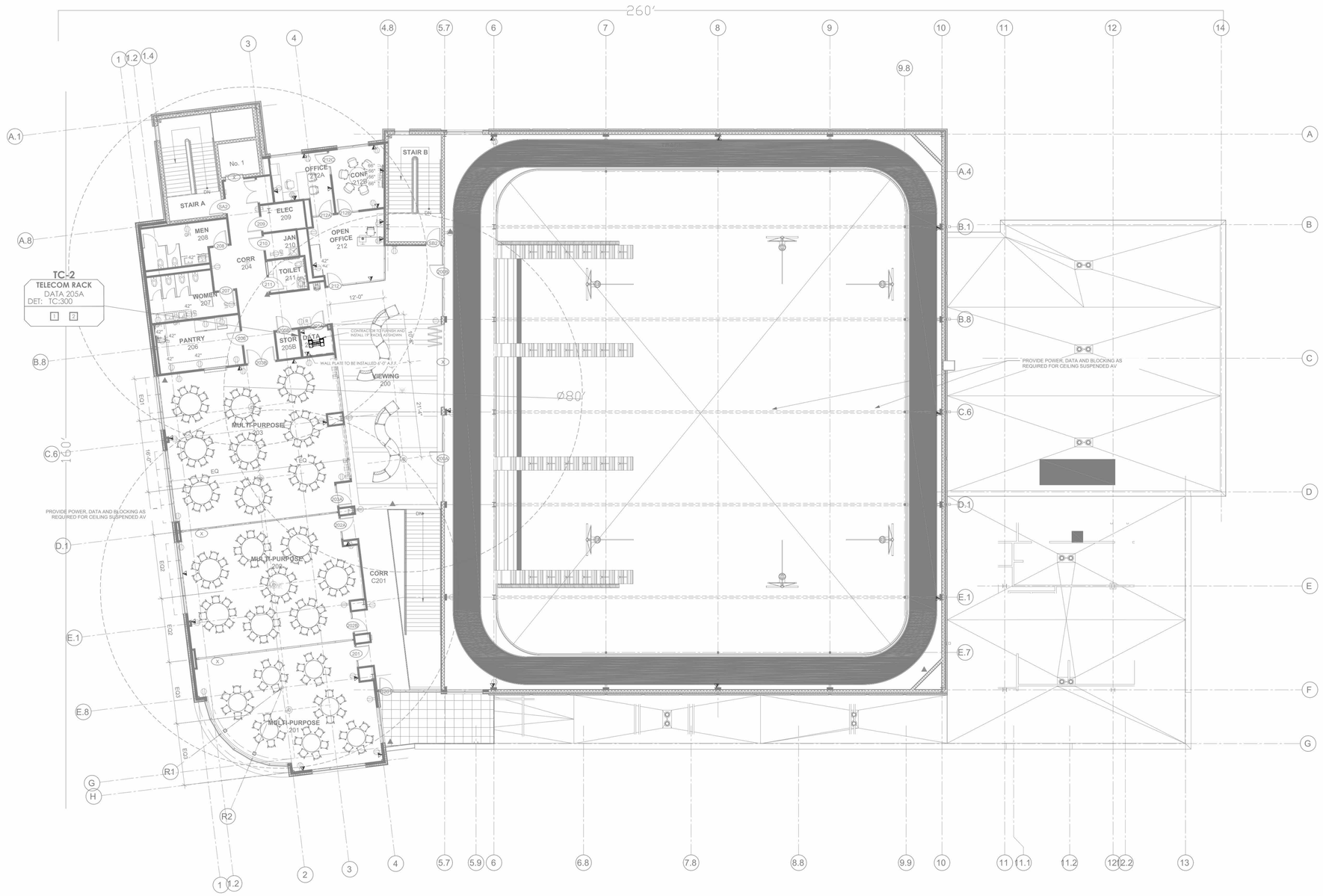
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

TELECOMMUNICATION 1ST FLOOR DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
TC101



NOTE:
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ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION 2ND FLOOR DEVICE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT

WORK ORDER NO.:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO.:
DRAWING NO.: TC-102

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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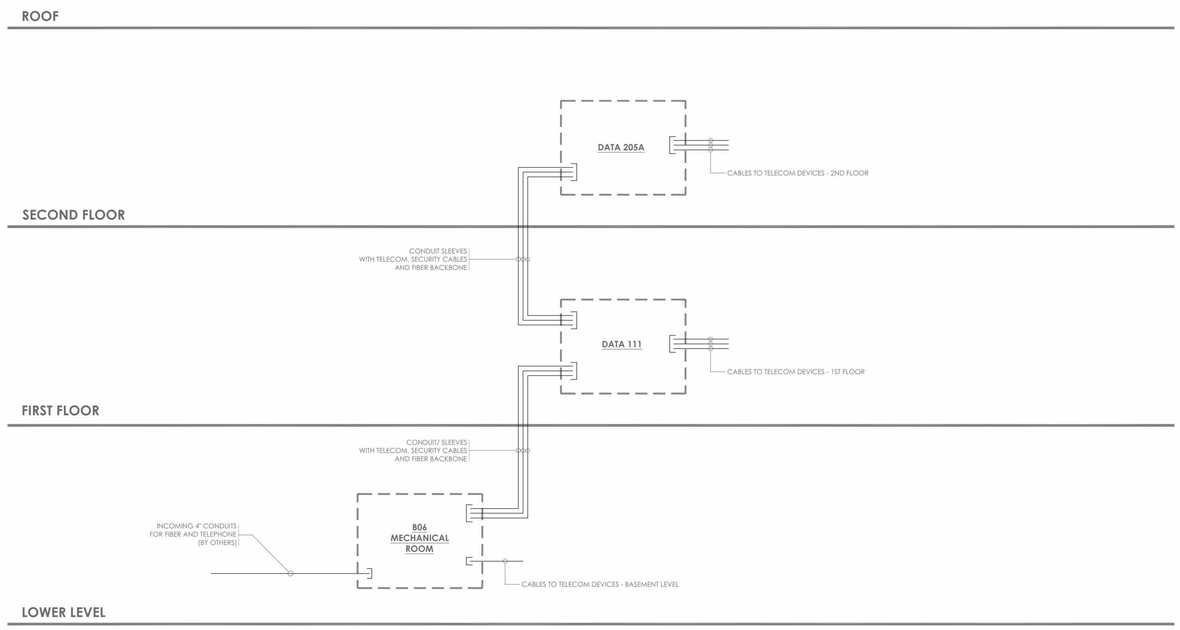
No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

TELECOMMUNICATION 2ND FLOOR DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

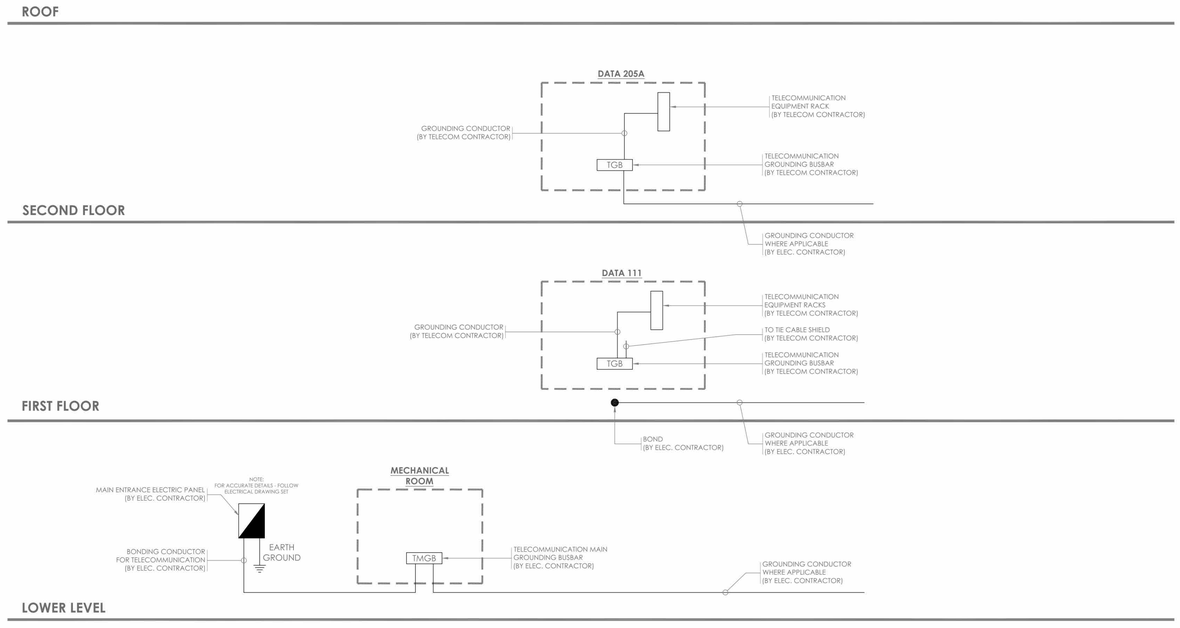
Sheet Number
TC102



2 TELECOMUNICATION RISER DIAGRAM

GENERAL NOTES:

1. THIS DRAWING REPRESENTS A DIAGRAMMATIC OVERVIEW OF THE TELECOMMUNICATION PATHWAY INFRASTRUCTURE. REFER TO THE ELECTRICAL DRAWING SET FOR EXACT CONDUITS LAYOUT.
2. PATHWAYS SHOWN ARE DEDICATED FOR TELECOMMUNICATIONS, SECURITY, AND AV CABLING ONLY.
3. PROVIDE FIRESTOP MATERIAL IN AND AROUND ALL PENETRATING SLEEVES. REFER TO ELECTRICAL DRAWINGS SET
4. PROVIDE PLASTIC BUSHINGS AS NEEDED.
5. SEE FLOOR PLANS FOR DEVICE LOCATION AND QUANTITIES.
6. GROUNDING SCHEMATIC BELOW IS DIAGRAMMATIC AND FOR INFORMATION ONLY. REVIEW THE ELECTRICAL DRAWINGS SET FOR FURTHER DETAILS
7. FOR FURTHER DETAILS - COORDINATE WITH ELECTRICAL DRAWING SET
8. THE BELOW INDICATES NEED FOR GROUNDING BARS AT THE THREE MAIN MDF/IDF - REFER TO THE ELECTRICAL DRAWING SETS FOR GREATER DETAIL



1 GROUNDING AND BONDING RISER DIAGRAM

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

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DATE	COMMENTS
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155 Lafayette Ave
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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION RISER DIAGRAMS

JD	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO.: | DATE: 12/08/2023
SCALE: N.T.S.
S.A. NO.: | DRAWING NO.: TC-200

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Town / Village of Harrison

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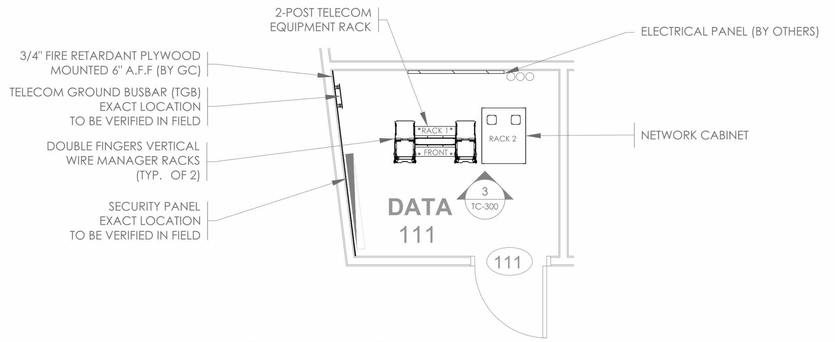
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

TELECOMMUNICATION RISER DIAGRAMS

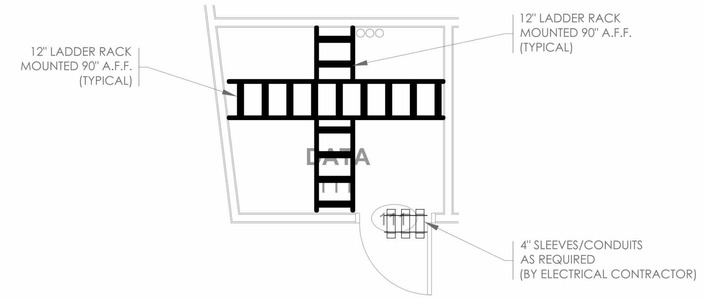
Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
TC200



1 TC-300 TC-1 FLOOR PLAN ELEVATION DETAIL - 1

DATA 111 ROOM (1ST FLOOR) 1/2"=1'-0"

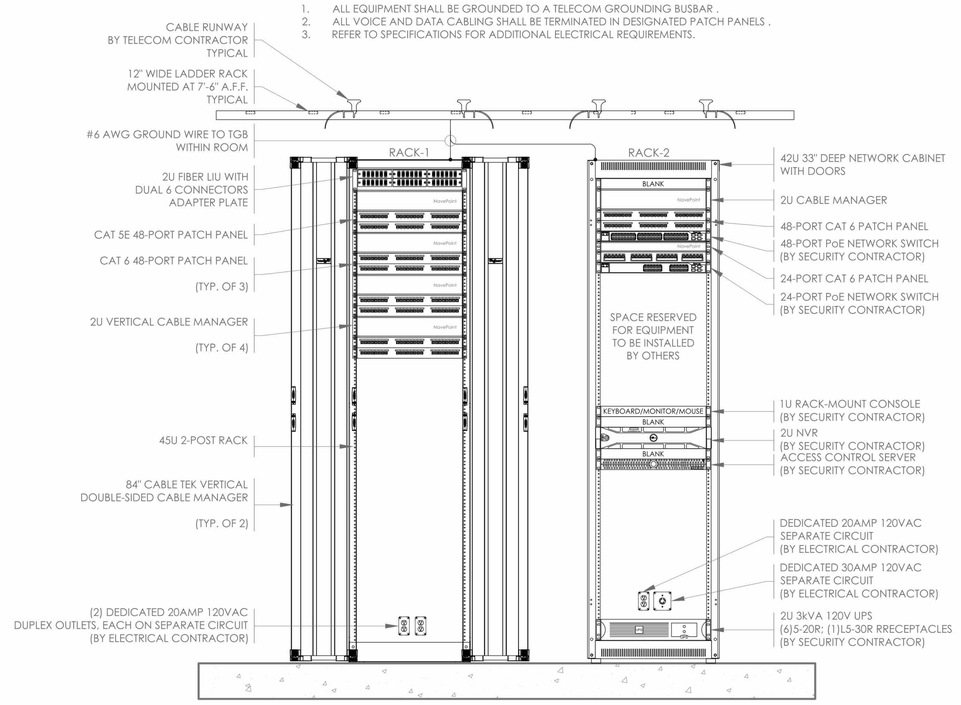


2 TC-300 TC-1 FLOOR PLAN ELEVATION DETAIL - 2

DATA 111 ROOM (1ST FLOOR) 1/2"=1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE GROUNDED TO A TELECOM GROUNDING BUSBAR .
2. ALL VOICE AND DATA CABLING SHALL BE TERMINATED IN DESIGNATED PATCH PANELS .
3. REFER TO SPECIFICATIONS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.



3 TC-300 TC-1 TELECOM RACK DETAIL

DATA 111 ROOM (1ST FLOOR) 1-1/2"=1'-0"

NOTE:
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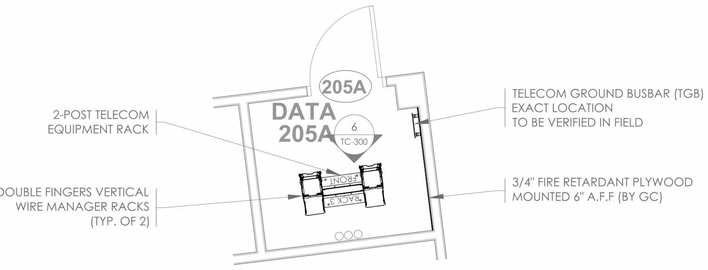
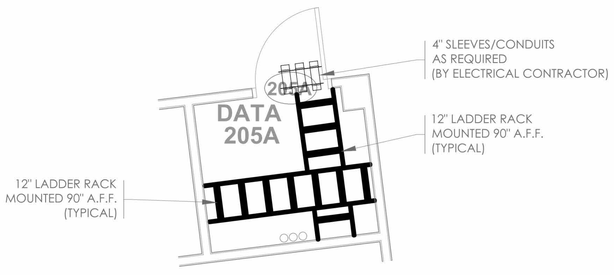


4 TC-300 TC-2 FLOOR PLAN ELEVATION DETAIL - 1

DATA 205A ROOM (2ND FLOOR) 1/2"=1'-0"

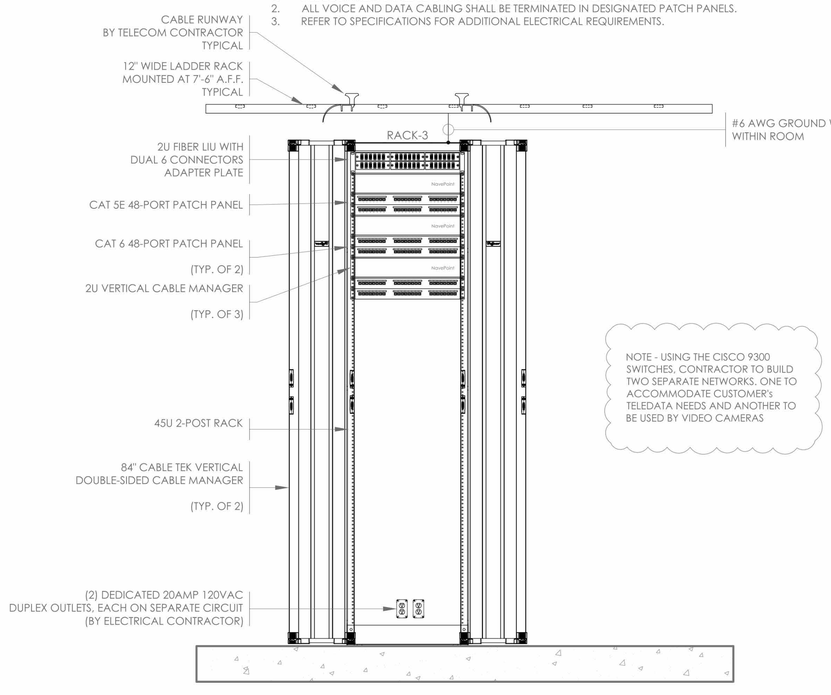


5 TC-300 TC-2 FLOOR PLAN ELEVATION DETAIL - 2

DATA 205A ROOM (2ND FLOOR) 1/2"=1'-0"

NOTES:

1. ALL EQUIPMENT SHALL BE GROUNDED TO A TELECOM GROUNDING BUSBAR .
2. ALL VOICE AND DATA CABLING SHALL BE TERMINATED IN DESIGNATED PATCH PANELS.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.



6 TC-300 TC-2 TELECOM RACK DETAIL

DATA 205A ROOM (2ND FLOOR) 1-1/2"=1'-0"

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON
RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOM CLOSET
TC-1 AND TC-2
ELEVATION AND DETAILS

JD	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:
DATE: 12/08/2023
SCALE: N.T.S.
E.A. NO:
DRAWING NO: TC-300

HARRISON
RECREATION &
COMMUNITY
CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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1	03/31/2020	50% DESIGN DEVELOPMENT

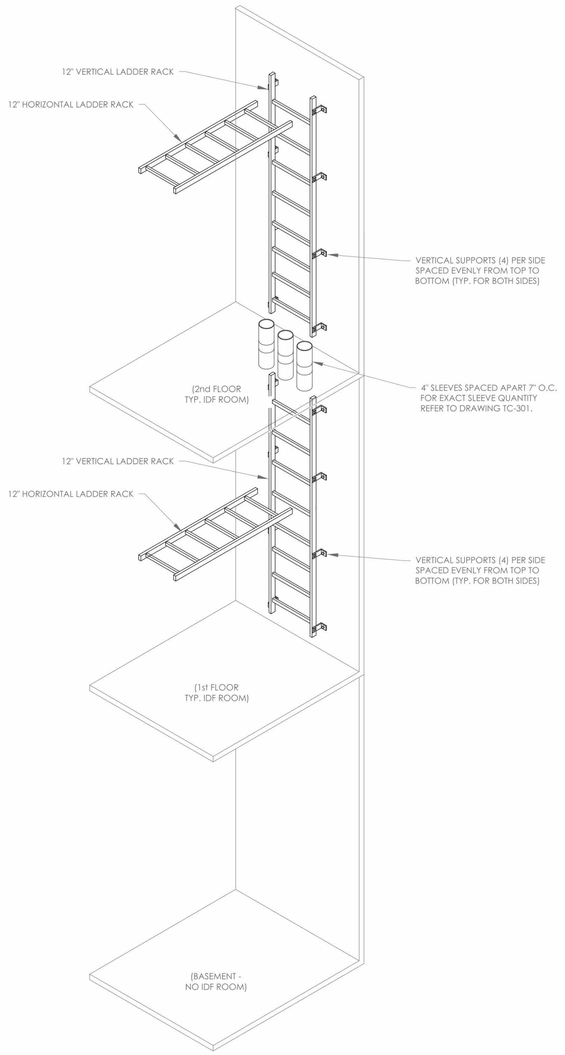
Sheet Title

TELECOM CLOSET
TC-1 AND TC-2
ELEVATION AND
DETAILS

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

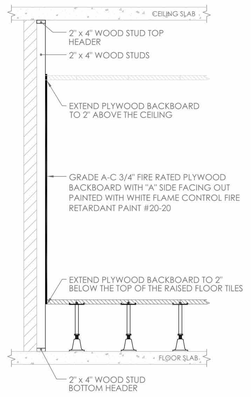
Sheet Number

TC300



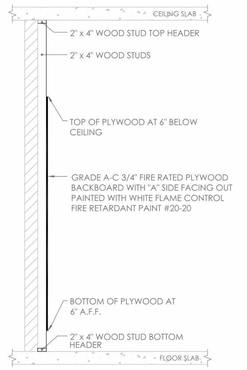
IDF LADDER RACK AND SLEEVE DETAIL

NOT TO SCALE



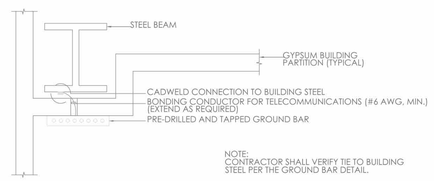
TYPICAL WALLFIELD CONSTRUCTION (FOR ROOMS WITH RAISED FLOOR)

NOT TO SCALE



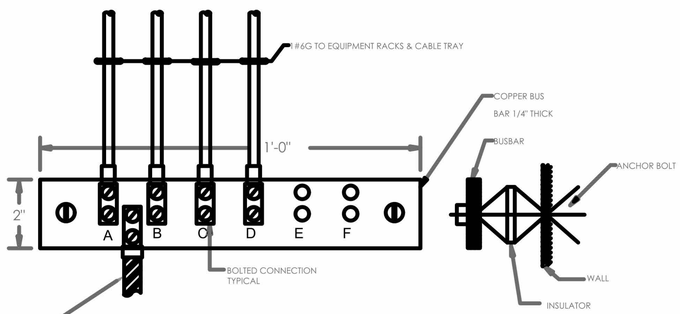
TYPICAL WALLFIELD CONSTRUCTION (FOR ROOMS WITHOUT RAISED FLOOR)

NOT TO SCALE



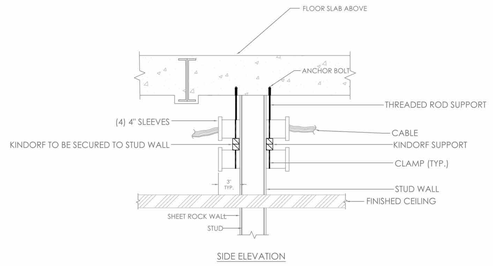
TYPICAL GROUND BAR MOUNTING DETAIL

NOT TO SCALE

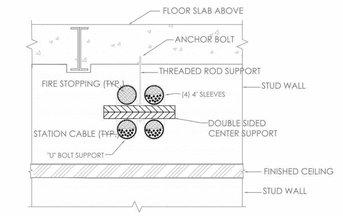


TYPICAL IT ROOM GROUND BAR MOUNTING DETAIL

NOT TO SCALE



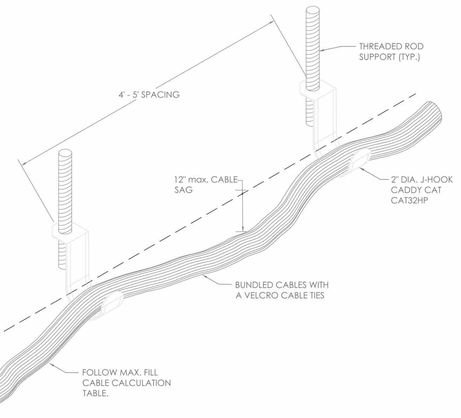
SIDE ELEVATION



FRONT ELEVATION

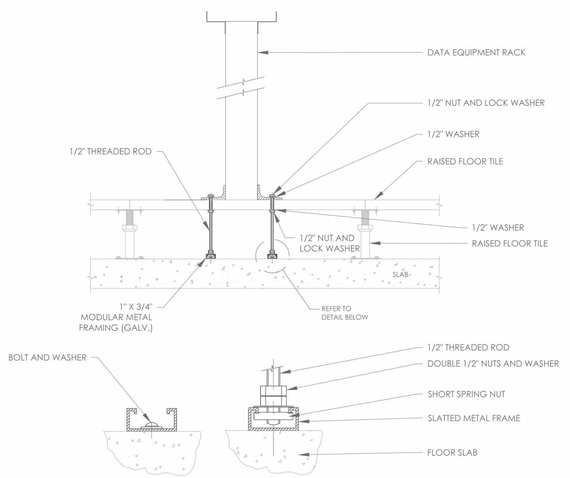
FRAMED OPENING DETAIL

SCALE: NONE



CABLE HANGER SUPPORT DETAIL

NOT TO SCALE



EQUIPMENT RACK ON RAISED FLOOR MOUNTING DETAIL

NOT TO SCALE

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ISSUED FOR:	
DATE	COMMENTS
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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION TYPICAL DETAILS -1

JD	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:	DATE: 12/08/2023
	SCALE: N.T.S.
S.A. NO:	DRAWING NO: TC-700

HARRISON RECREATION & COMMUNITY CENTER

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Town / Village of Harrison

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CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

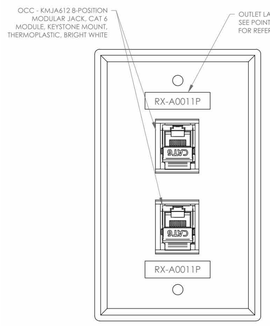
TELECOMMUNICATION TYPICAL DETAILS-1

Job No. 2020-1005	Date 06/05/24
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

TC700

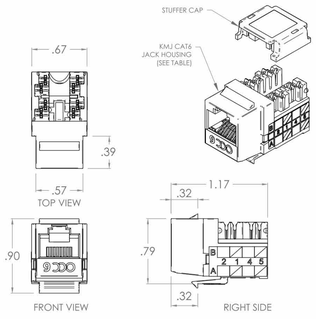
TWO PORT OUTLET FOR VOICE AND DATA



OPTICAL CABLE CORP.
#FPKS0212
FACEPLATE ASSY, SG, FM, 2 PORT KMJ, STANDARD,
BRIGHT WHITE, RESIDENTIAL

Symbol on Dwgs: ▲ DTL: T01

OCC JACK ASSEMBLY, KMJ, CAT6 P/N: KMJA6"XX"



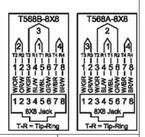
APPLICATIONS:
- ANALOG VOICE / VOIP / IPTV
- 10 / 100 / 1000 BASE-T ETHERNET
- IEEE 802.3 AF / AT PoE

SPECIFICATIONS:
- ANSI / TIA-568-C.2 CATEGORY 6
- ANSI / TIA-968-A
- IEC 60603-7

MATERIALS:
- JACK HOUSING: UL 94V-0 RATED THERMOPLASTIC
- MODULE INTERFACE MATING CONTACT MATERIAL: BERYLLIUM COPPER
- PLATING: 50 MICRO-INCH (MIN) HARD GOLD OVER 100 MICRO-INCH (MIN) NICKEL OR APPROVED ALTERNATE PLATING PROCESS

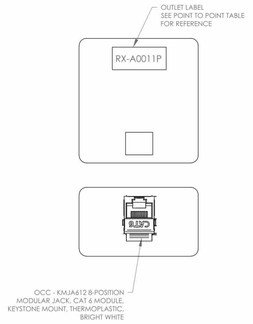
110-STYLE IDC TERMINAL
- MATERIAL: PHOSPHOR BRONZE
- PLATING: 100 MICRO-INCH (MIN) MATTE TIN OVER 50 MICRO-INCH (MIN) NICKEL
- WIRE GAUGE RANGE: 22-26 AWG

COLOR TABLE	
KMJ HOUSING	TOP
ELEC. IVORY	00
OFFICE WHITE	01
BLACK	02
RED	03
GREEN	04
BLUE	05
GRAY	06
ORANGE	08
YELLOW	09
PURPLE	10
BROWN	11
BRT. WHITE	12



Symbol on Dwgs: DTL: T02

SINGLE PORT DATA SURFACE MOUNT BOX

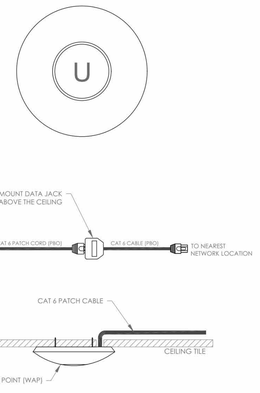


EATON N082-001-WH
1-PORT SURFACE-MOUNT BOX, WHITE

NOTES:
1. SURFACE MOUNT BOX SHALL BE MOUNTED ABOVE THE CEILING LINE.
2. LEAVE 10' OF SLACK CABLE FOR RELOCATION PURPOSE.
3. COORDINATE WITH SECURITY DRAWINGS FOR CAMERA AND INTERCOM DEVICE LOCATION.

Symbol on Dwgs: ▽ ▲ DTL: T03

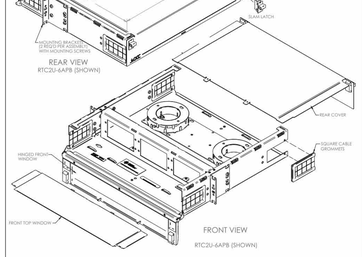
UniFi WIRELESS ACCESS POINT (WAP)



NOTES:
1. SURFACE MOUNT BOX SHALL BE MOUNTED ABOVE THE CEILING LINE.
2. LEAVE 10' OF SLACK CABLE FOR RELOCATION PURPOSE.
3. REFERENCE SECURITY DRAWINGS FOR CAMERA AND INTERCOM DEVICE LOCATION.
4. REFERENCE A MANUFACTURER INSTRUCTION TO MOUNT WIRELESS ACCESS POINT.

Symbol on Dwgs: DTL: T04

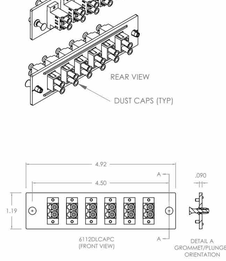
OCC CABINET, RACK MNT, RTC, 2 UNIT, 6 ADAPTER PLATES, BLACK P/N: RTC2U-6APB



SPECIFICATIONS
FEATURES & BENEFITS:
- OPTICAL CABLE CORPORATION'S, RTC2U SERIES LOW PROFILE FIBER OPTIC CROSS CONNECT ENCLOSURES PROVIDE FIBER MANAGEMENT, CONNECTIVITY, AND DISTRIBUTION FOR 6-72 FIBERS.
- ENCLOSURES ARE DESIGNED TO EASILY CONNECT FUNCTIONS (PATCHING, TERMINATION, AND INTERCONNECTION) FOR OUTSIDE PLANT, BACKBONE, AND BUILDING CABLES.
- ACCOMMODATES OCC 600 SERIES SNAP-IN ADAPTER PLATES. RTC2U ENCLOSURE PORT COUNT IS BASED UPON THE PORT DENSITY OF THE ADAPTER PLATES. ADAPTER PLATES ORDERED SEPARATELY.
- RTC2U ENCLOSURES PROVIDE INNOVATIVE FIBER ORGANIZATION UTILIZING STACKABLE FIBER HOOPS SECURING FIBER CABLES. ORDERLY FIBER MANAGEMENT AND ALLOW FOR GREATER SEGREGATION OF INCOMING FIBER CABLES.
- PLASTIC GROMMETS PROVIDE RELIABLE CABLE PROTECTION AT ALL CABLE ENTRANCES AND EXITS.
- RUGGED 16-GAUGE STEEL CONSTRUCTION WITH A DURABLE POWDER COAT FINISH.
- REAR COVER IS REMOVABLE.
- HINGED TRANSPARENT COVER ALLOWS FOR VISUAL INSPECTION OF PORTS AND DEFINED LABELING FIELD PROVIDED FOR TIA 606A COMPLIANCE.
- STANDARD UNIVERSAL MOUNTING BRACKETS INCLUDED TO FIT 19" AND 23" RACKS OR CABINETS. OPTIONAL RECESS BRACKETS ARE AVAILABLE TO ALLOW RTC2U ENCLOSURES TO FIT FLUSH WITH RACK
- ALL PLASTIC COMPONENTS ARE HIGH-IMPACT SELF-EXTINGUISHING, UL LISTED RATING 94 V-0.
- SPLICE TRAY KIT(S) AND EXTERNAL STRAIN RELIEF BRACKETS MAY BE ORDERED SEPARATELY AS AN OPTION FOR THE RTC2U ENCLOSURE.

Symbol on Dwgs: DTL: T06

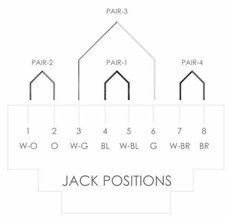
OCC ADAPTER PLATE, DUAL LCX6, SM/MM, 12 PORT



NOTES: UNLESS OTHERWISE SPECIFIED.
1. EACH FIBER ADAPTER KIT IS SUPPLIED WITH COMPONENTS SHOWN.
   SLEEVE/FERRULE WITHDRAWAL FORCE: 3.0N ~ 5.9N (200GF ~ 600gf)
2. ADAPTER SPECIFICATIONS (SINGLEMODE)
   SLEEVE/FERRULE WITHDRAWAL FORCE: 2.0N ~ 5.9N (200gf ~ 600gf)

Symbol on Dwgs: DTL: T07

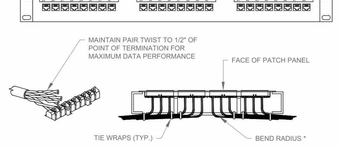
8 POSITION JACK PIN/PAIR ASSIGNMENTS T568B



THE ILLUSTRATIONS ARE FRONT VIEWS OF THE CONNECTOR. THE WIRE COLORS INDICATED ARE ASSOCIATED WITH THE STATION DISTRIBUTION CABLE.

Symbol on Dwgs: DTL: T08

PATCH PANEL AND CABLE LABELING



* The minimum cable bend radius is 4 times the outside cable diameter. Tie wraps should be used to attach the cable to the wire management bracket. Care should be taken to insure the tie wraps are not too tight. The cable at the edge of the patch panel should be attached to the cable which has already been tie wrapped to the wire management bracket.

NOTE:

PROVIDE COMPUTER GENERATED LABEL 6" OF CABLE END (BOTH ENDS) MUST CONFIRM WITH EIA/TIA 606 STANDARDS. HANDWRITTEN LABELS SHALL BE CONSIDERED UNACCEPTABLE.

Symbol on Dwgs: DTL: T09

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

ISSUED FOR:

DATE	COMMENTS
06/05/24	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
TELECOMMUNICATION TYPICAL DETAILS -1

DESIGNED BY	DRAWN BY	CHECKED BY
JD	AO	IT

WORK ORDER NO: DATE: 12/08/2023
S.A. NO: SCALE: N.T.S.
DRAWING NO: TC-701

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

TELECOMMUNICATION COVER SHEET AND DEVICE LEGEND

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
TC701

HARRISON
RECREATION CENTER

270 HARRSON AVE
HARRISON, NY 10528

RFI 074

SECURITY BID SET

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS
SE-100 LOWER LEVEL SECURITY DEVICE PLAN
SE-101 1ST FLOOR SECURITY DEVICE PLAN
SE-102 2ND FLOOR SECURITY DEVICE PLAN

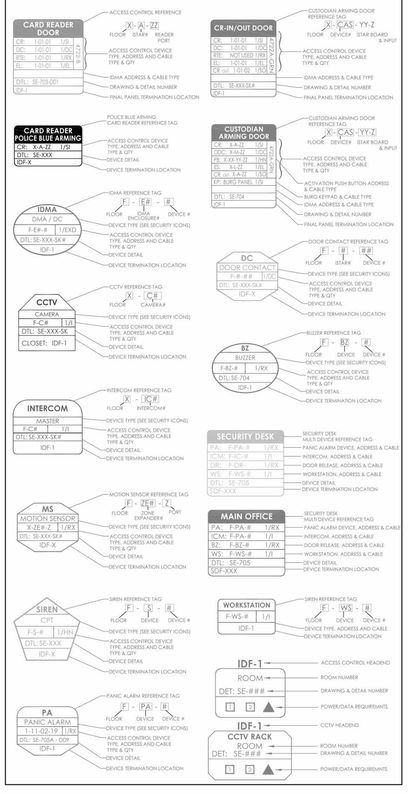
CLOSET DETAILS
SE-300 INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1
SE-301 CCTV CLOSET ELEVATION IDF-1

CLOSET DETAILS
SE-500 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-1
SE-501 SECURITY EQUIPMENT DETAIL - DOOR TYPICALS-2

TYPICALS
SE-701 BURGLAR & ACCESS CONTROL OVERALL SYSTEMS INTERFACE ONE LINE DIAGRAM
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (IDMA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

NOTE TO THE ELECTRICAL CONTRACTOR (EC):
THIS DRAWING BINDER ADDRESSES ITEMS THAT ARE REFERENCED IN DIVISION 26 DRAWINGS AND SPECIFICATIONS. PLEASE REFER TO BOTH DIVISION 26 AND DIVISIONS 27/28 FOR FULL SCOPE AND RESPONSIBILITIES.

REFERENCE DEVICE ATTRIBUTE LEGEND



GENERAL NOTES

1. DRAWINGS AND DIVISION 28 DEFINITIONS: YOU ARE THE SECURITY ELECTRICAL CONTRACTOR [illegible] PROVIDED ELECTRONIC CONTROLLERS AND EQUIPMENT. ALL OTHER SECURITY SYSTEM INSTALLATION WORK IS PART OF YOUR WORK. ALL ITEMS MENTIONED IN THE DIVISION 27 AND 28 SPECIFICATIONS ARE ALSO PART OF THIS PACKAGE AND INCLUDED IN YOUR SCOPE OF WORK AS WELL.
2. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS IN THE SE AND TC BINDER SETS.
3. WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, AND OTHERS.
4. THE SEC SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
5. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SEC AS REQUIRED BY CODE.
6. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUITS AND CONDUCTOR LAYOUTS SHALL BE PROVIDED BY THE SEC IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
7. THE SEC MUST COORDINATE WITH THE EC ALL DEVICE INSTALLATION DETAILS AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE PER THE FINAL APPROVED SHOP DRAWING, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS. SURFACE MOUNTING IS ONLY APPROVED IF THERE IS NO OTHER PATHWAY OPTION. NO SURFACE MOUNTING IS APPROVED ON ANY DRYWALL.
8. PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40% CONDUIT FILL. WHEN USING SURFACE MOUNTED WIREMOLD, BACK BOX DEPTH SHOULD NOT EXCEED THE ABSOLUTE MINIMUM DEPTH REQUIRED FOR THE DEVICE. FOR EXAMPLE, CARD [illegible]
9. UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE SEC AS WELL.
10. THE SEC SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
11. UNLESS OTHERWISE NOTED, THE SEC SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK.
12. THE SEC SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY PANDUIT J-HOOKS, CABLE TRAYS, OR EQUIVALENT. CABLE NOT TO BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
13. THE SEC TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT. AT MDF/IDF, ON THE PLYWOOD BACKBOARD. USE GROUND BAR. COORDINATE WITH GENERAL CONTRACTOR AND EC FOR NEAREST GROUNDING LOCATION.
14. THE SEC SHALL WIRE ALL DOORS FOR ELECTRIFIED DOOR HARDWARE THAT WILL BE PROVIDED BY OTHERS. THIS INCLUDES ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS AUTOMATIC DOOR OPERATORS ETC..
15. THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL THE WORK REQUIRED BY THE SEC FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
16. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL WIRES AND BRUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE- STOPPED.
17. PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE [illegible] INSTALLATION & PROPER FUNCTIONING.
18. AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE SEC SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WIRE TO TROUBLESHOOT, TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
19. [illegible]
20. CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM AND BE CONNECTED BY SEC.
21. THE SEC IS RESPONSIBLE FOR PROVIDING A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS.
22. ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING LSI-77 TAGS OR SIMILAR. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE
23. SECURITY SCREWS TO BE USED ON ALL DEVICES TO MAINTAIN SYSTEM'S INTEGRITY.
24. POWER AND PATHWAYS BY BASE BUILDING ELECTRICAL CONTRACTOR.

SECURITY DEVICES LEGEND

KP	KEY READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
DDC	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
DC	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
KP	BURG PANEL KEY PAD		
DO	ELECTRIFIED DOOR OPERATOR (PBO)		
OHD	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
EL	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
ML	ELECTROMAGNETIC LOCK		
ES	ELECTRIC STRIKE LOCK		
EOL	END OF LINE RESISTOR		
REX	REQUEST TO EXIT MOTION SENSOR		
IDMA	INTELLIGENT DOOR MANAGEMENT ALARM (IDMA) - "EXD" CABLE		
CB	ELECTRIC LOCKING CRASH BAR	REX = BUILT IN REQUEST TO EXIT	
MD(LR)	MOTION SENSOR (LONG RANGE) - "RX" CABLE	MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION [illegible]	
MD(SR)	MOTION SENSOR (SHORT RANGE) - "RX" CABLE		
BUZ	BUZZER		
TMP	TEMPERATURE SENSOR		
MON	VIDEO MONITOR		
ICM	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
S	SIREN		
CAS	CUSTODIAL ARMING STATION		
	FIXED MINI DOME OUTDOOR VANDAL CAMERA		
	FIXED MINI DOME INDOOR CAMERA		
	PTZ DOME OUTDOOR CAMERA		
	PTZ DOME INDOOR CAMERA		
	FIXED BOX OUTDOOR CAMERA		
	FIXED BOX INDOOR CAMERA		
	QUAD CAMERA		

POWER REQUIREMENTS

1. **POWER (EMERGENCY CIRCUIT)**
CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

2. **POWER (NON-EMERGENCY CIRCUIT)**
CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

CABLE TYPE/IDENTIFICATION SCHEDULE

ID	MANUFACTURER	PART #	DESCRIPTION	CABLE TYPE
R	REMEE	4722A-AMZ	(SI) - COMPONENT 1: CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/B2R) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (SO) - COMPONENT 2: CARD READER-OUT 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/B2R) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (DC) - COMPONENT 3: DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED	PLENUM
B	REMEE	4722B-AMZ	(SI) - COMPONENT 1: CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/B2R) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED (RX-MO) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED (DC) - COMPONENT 3:DOOR CONTACT 2 COND - 22AWG STRANDED (EL) - COMPONENT 4: LOCK POWER 2 COND - 18AWG STRANDED (HN) - COMPONENT 5: HORN/STROBE 2 COND - 20AWG STRANDED	PLENUM
EXD	REMEE	5465-AMZ	(RX-MO) - COMPONENT 2: REQUEST TO EXIT 4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED (DC) - COMPONENT 3:DOOR CONTACT 2 COND - 22AWG STRANDED (HN) - COMPONENT 5: HORN 2 COND - 20AWG STRANDED	PLENUM
SI	REMEE	5333-SI	CARD READER-IN 1/PR (RS-485) SHIELDED 22AWG STRANDED 2 COND (LED/B2R) 22AWG STRANDED 2 COND (POWER) 20AWG STRANDED	PLENUM
DC	REMEE	5333-DC	2 COND - 22AWG STRANDED-BARE COPPER	PLENUM
EL	REMEE	5333-EL	2 COND - 18AWG STRANDED-BARE COPPER	PLENUM
HN	REMEE	5333-SI	2 COND - 20AWG STRANDED-BARE COPPER	PLENUM
RX-MO	REMEE	5333-RX-MO	4 COND - 2 COND - 22AWG (CONTACT) STRANDED 2 COND - 20AWG (POWER) STRANDED	PLENUM
BR	PAIGE	P7195D	3 PAIR - 20AWG STRANDED-BARE COPPER, INDIVIDUALLY SHIELDED	BURIAL

NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
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ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

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155 Lafayette Ave
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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
COVER SHEET

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: DATE: 12/08/2023
SCALE: N.T.S.
S.A. NO: DRAWING NO: SE-000

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
Town / Village of Harrison
270 Harrison Avenue
Harrison, NY 10528

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

COVER SHEET

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

SE000

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PROJECT:
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270 HARRSON AVE
HARRISON, NY 10528

TITLE:
LOWER LEVEL SECURITY DEVICE PLAN

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO:
DRAWING NO: SE-100

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Town / Village of Harrison

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1	03/31/2020	50% DESIGN DEVELOPMENT

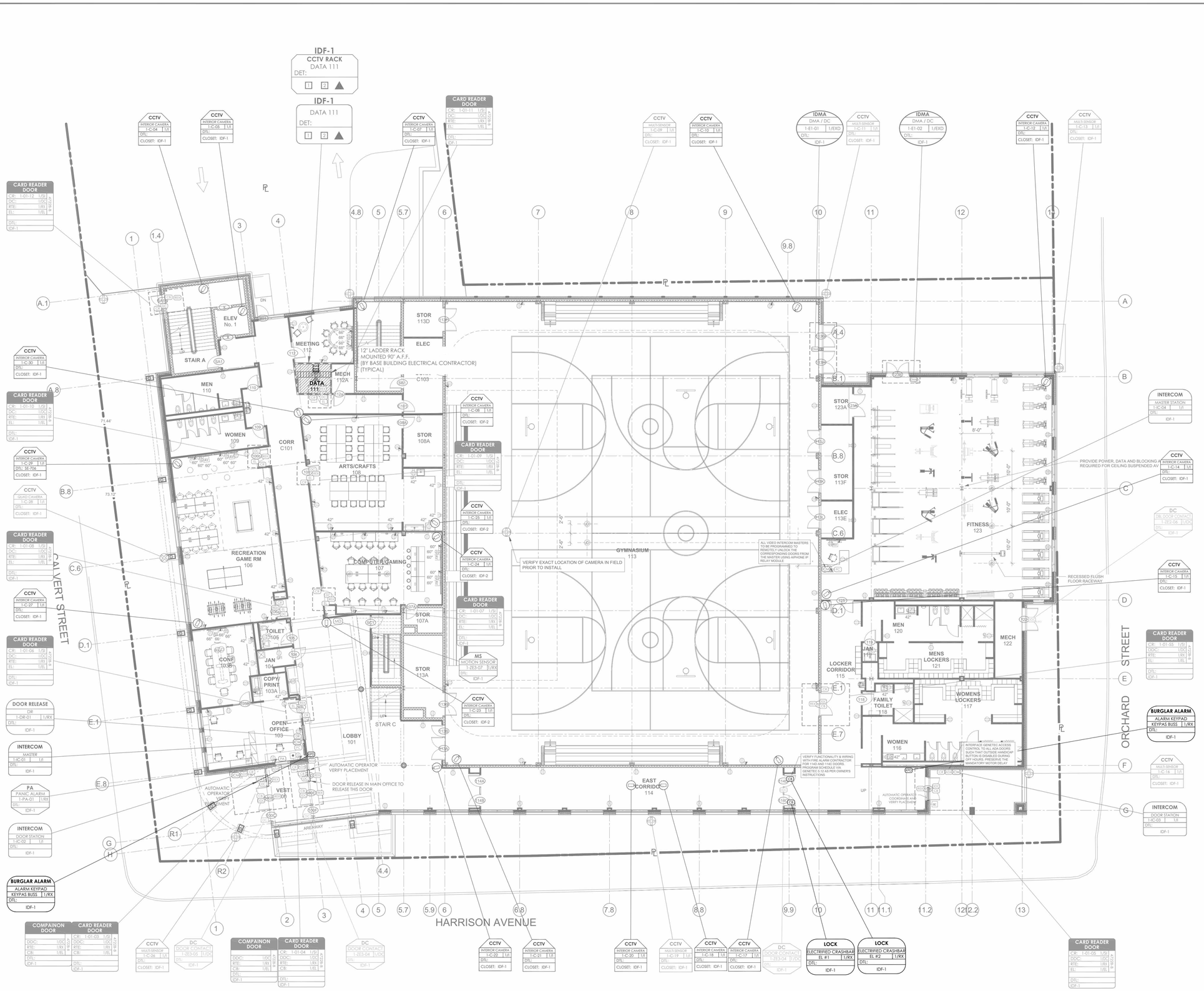
Sheet Title

LOWER LEVEL SECURITY DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number

SE100



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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
1ST FLOOR SECURITY DEVICE PLAN

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO:
DRAWING NO: SE-101

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

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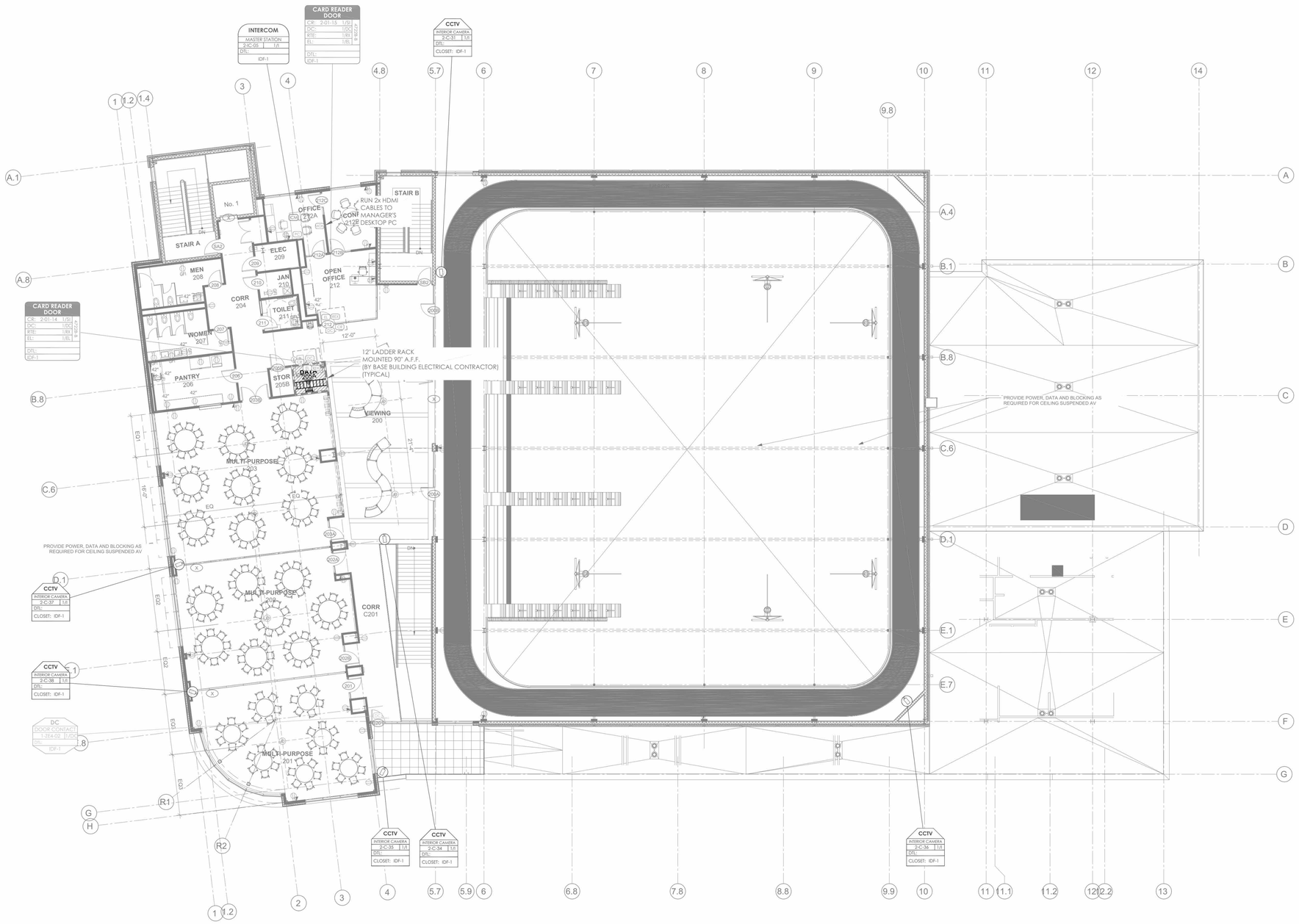
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
1ST FLOOR SECURITY DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE101



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White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
2ND FLOOR SECURITY DEVICE PLAN

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:
DATE: 12/08/2023
SCALE: 1/8"=1'-0"
S.A. NO:
DRAWING NO: SE-102

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

2ND FLOOR SECURITY DEVICE PLAN

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

SE102

NOTE:
ALL INCOMING STREET UTILITIES FOR THE BUILDING TO TERMINATE IN DATA 111 (IDF-1)

INSTALLATION PROCEDURE
MERCURY 16 DOORS WITH LSP 12V/24V ACCESS CONTROL HEAD END

1. LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
2. COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
3. [illegible]
4. [illegible] BOTTOM OF P/S (INTERFERES WITH BATTERY).
5. MOUNT [iSTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [ISTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
6. BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT.
7. COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY.
8. ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
9. ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: | DATE: 12/08/2023 | SCALE: N.T.S. | S.A. NO: | DRAWING NO: SE-300

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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Sheet Title
INTRUSION & ACCESS CONTROL CLOSET ELEVATION IDF-1

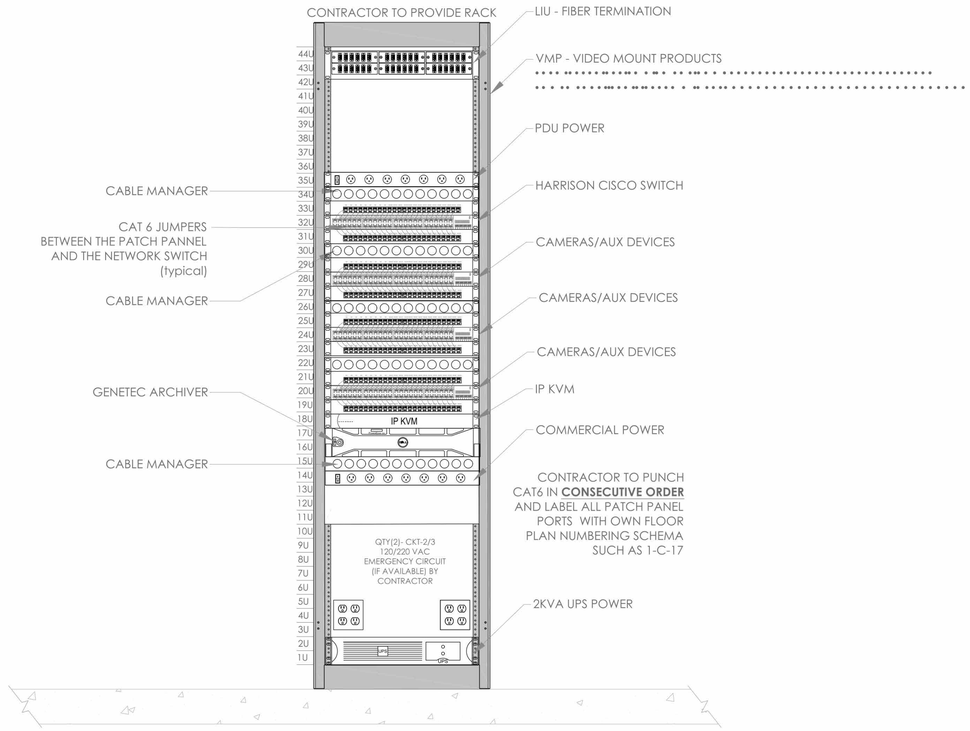
Job No.	Date
2020-1005	06/05/24
Scale	**Drawn / Checked**
AS NOTED	Author Checker

Sheet Number
SE300

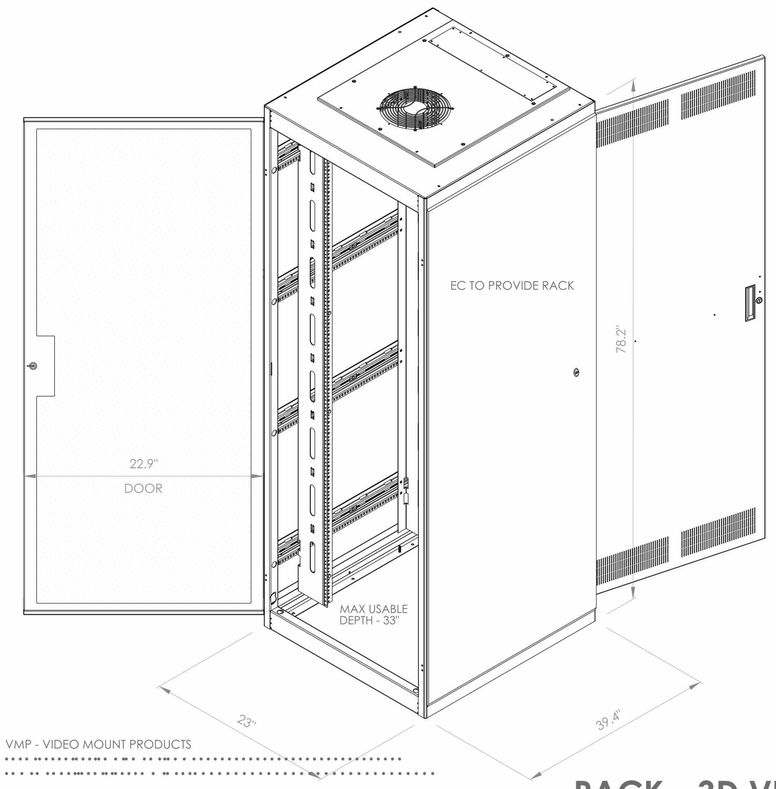
CONTRACTOR TO BUILD TWO SEPARATE NETWORKS. ONE TO ACCOMMODATE CUSTOMER's TELEDATA NEEDS AND ANOTHER TO BE USED BY VIDEO CAMERAS

NOTE:
ALL INCOMING STREET UTILITIES FOR THE BUILDING TO TERMINATE IN DATA 111 (IDF-1)

CCTV NETWORK RACK



FRONT ELEVATION



RACK - 3D VIEW

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PROJECT:
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270 HARRSON AVE
HARRISON, NY 10528

TITLE:
CCTV CLOSET ELEVATION IDF-1

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE: N.T.S.
S.A. NO:
DRAWING NO: SE-301

HARRISON RECREATION & COMMUNITY CENTER
New Construction - Phase 2
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Harrison, NY 10528

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Professional Seal

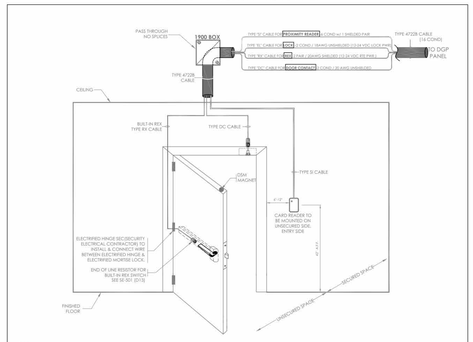
No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
CCTV CLOSET ELEVATION IDF-1

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE301

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRICTRIFIED CRASH BAR w/BUILT-IN REX SWITCH

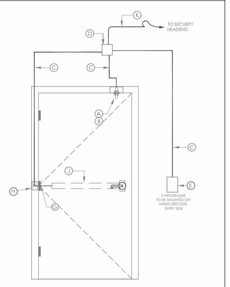


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.
DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

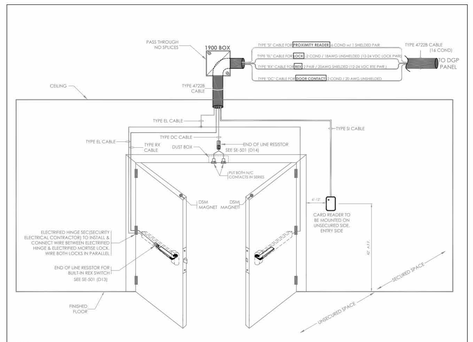
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (C) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (D) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECTS INTERIOR ELEVATIONS
- (E) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (H) CRASH BAR WITH BUILT-IN REX SWITCH
- (J) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU47228 CABLE ABOVE
- (K) ACCESSIBLE CEILING.



Symbol on Dwgs: CR DC XH CB REX

DTL: D01

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRICTRIFIED CRASH BAR w/BUILT-IN REX SWITCH



NOTE
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CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
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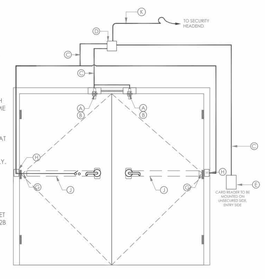
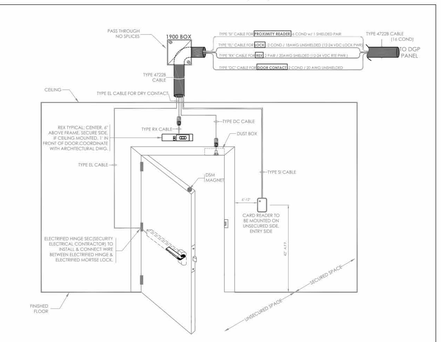
- (E) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (G) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (H) CRASH BAR WITH BUILT-IN REX SWITCH.
- (J) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU47228 CABLE ABOVE
- (K) ACCESSIBLE CEILING.



Symbol on Dwgs: CR DDO XH CB REX

DTL: D02

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRICTRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE
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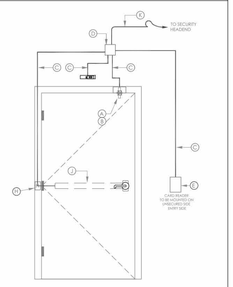
DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

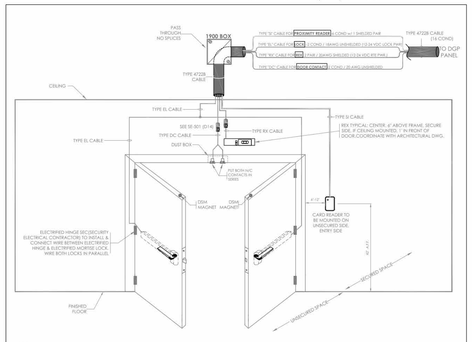
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECTS INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU47228 CABLE ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: CR XH CB DC REX

DTL: D03

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, ELECTRICTRIFIED CRASH BAR, REQUEST-TO-EXIT (REX) SENSOR



NOTE
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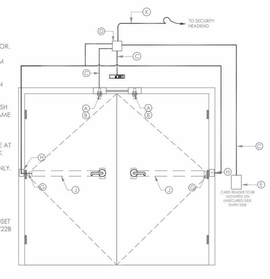
DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

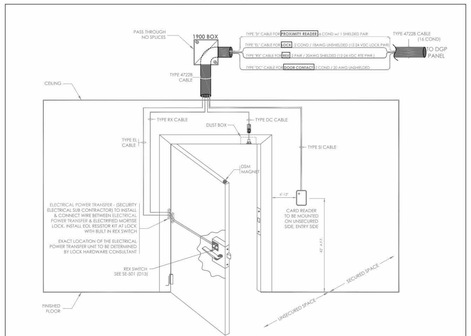
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECTS INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENU47228 CABLE ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: CR XH CB DDC REX

DTL: D04

ACCESS CONTROL DOOR - CARD READER, DOOR CONTACT, ELECTRIC MORTISE LOCK w/BUILT-IN REX SWITCH



NOTE
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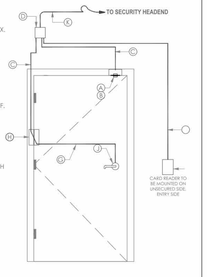
DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

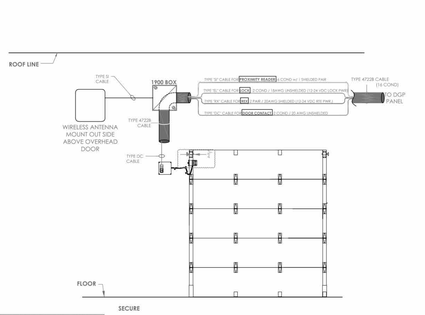
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET WITH BUIL-IN REX SWITCH.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENU47228 CABLE ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: CR DC XH EL REX

DTL: D05

OVERHEAD DOOR w/ CARD READER & CONTACT

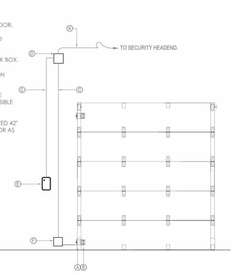


WHEN MOUNTING DEVICE, DO NOT USE SELF TAPPING SCREWS.
USE #6 BIT AND #8 MACHINE SCREW.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

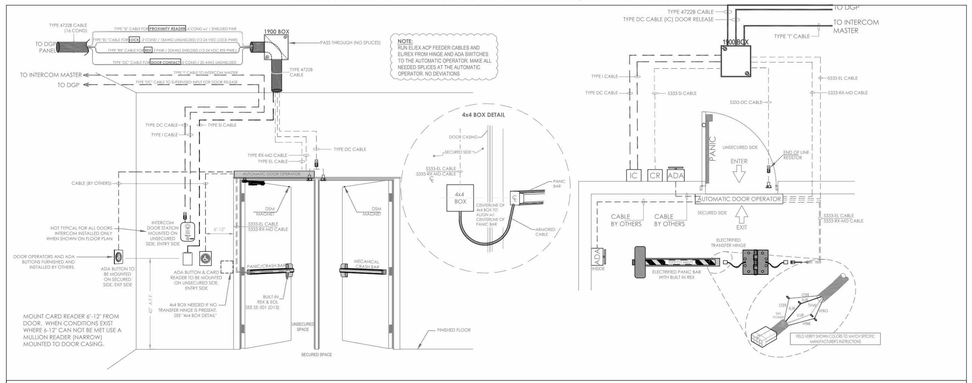
- (A) PROVIDE APPROPRIATE OVERHEAD CONTACT IN FOR OVERHEAD DOOR.
- (B) PROVIDE ASSOCIATED MATCHING RECESS MAGNET FOR OVERHEAD
- (C) DOOR.
- (D) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX.
- (K) PROVIDE 4 11/16"SQ BACK BOX WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR
- (E) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET. WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (F) PROVIDE 2-1/2" DEEP SINGLE GANG MASONARY BOX FLUSH MOUNTED 42" AFF AND 6"-12" AWAY FROM DOOR FROM DOOR OR SECURE SIDE OR AS PER ARCHITECT ELEVATIONS.



Symbol on Dwgs: OH

DTL: D06

ACCESS CONTROL DOOR - CARD READER, DOUBLE DOOR CONTACT, AUTOMATIC DOOR OPERATOR, ELECTRIFIED CRASH BAR w/BUILT-IN REX SWITCH



CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
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- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
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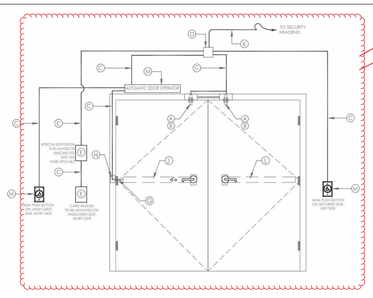
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE; USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
- (J) ELECTRIFIED CRASH BAR WITH BUILT-IN REX SWITCH.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENU47228 CABLE ABOVE ACCESSIBLE CEILING.
- (L) MECHANICAL CRASH BAR.
- (M) AUTOMATIC DOOR OPERATOR AND ADA BUTTONS TO BE PROVIDED AND FURNISHED BY OTHERS.



Symbol on Dwgs: CR DDC XH CB REX AO ADA IN ADA OUT

DTL: D07

NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES. DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

NOTE:
CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED

ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
SECURITY EQUIPMENT DETAIL
DOOR TYPICALS-1

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO.:
DATE: 12/08/2023
SCALE:
S.A. NO.:
DRAWING NO.: SE-500

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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Professional Seal

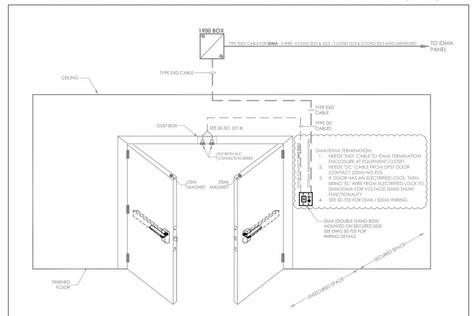
No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	08/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
SECURITY EQUIPMENT DETAIL DOOR TYPICALS-1

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE500

ACCESS CONTROL DOOR - EXIT ONLY, DOUBLE DOOR CONTACT AND INTELLIGENT DOOR MANAGEMENT ALARM (IDMA)



NOTE
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CONDUIT AND WIRING ROUGH-IN LAYOUT

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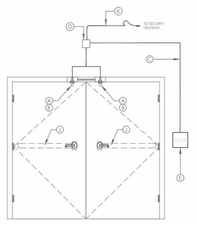
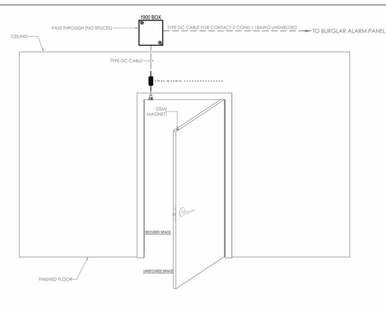
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP DOUBLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECTS INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) MECHANICAL EXIT CRASH BAR.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: DDC DMA

DTL: D08

ACCESS CONTROL DOOR - SINGLE DOOR CONTACT - BURGLAR

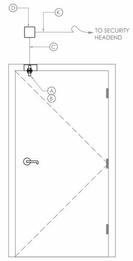


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.
DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

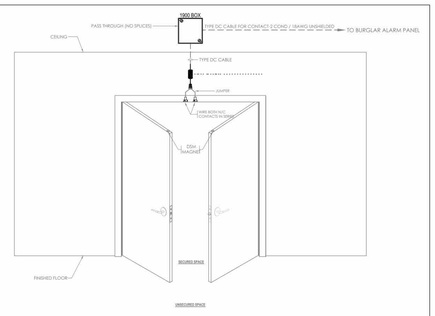
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) PROVIDE RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES.
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (K) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: DC BURG

DTL: D09

ACCESS CONTROL DOOR - DOUBLE DOOR CONTACT - BURGLAR



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DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

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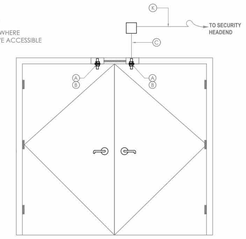
- (B) PROVIDE RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES.
- (K) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.



Symbol on Dwgs: DDC BURG

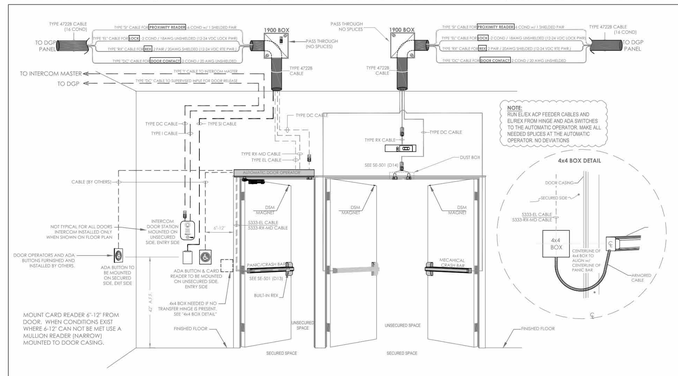
DTL: D10

NOTE:
CONTRACTOR TO VERIFY ALL DOOR TYPES WITH THE GC/EC AND WORK WITH EC DURING THE CONSTRUCTION PHASE TO VERIFY ALL CONDUITS, STUB UPS AND PATHWAYS ARE DONE CORRECTLY TO ACCOMMODATE ALL SECURITY AND TELEDATA DEVICES AS NEEDED

NOTES:
1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES. DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR ENGINEERING/PLAN AND VERIFYING THE ENTIRE SECURITY EQUIPMENT AND RELATED DIVISIONS 27, 28 SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "E" SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

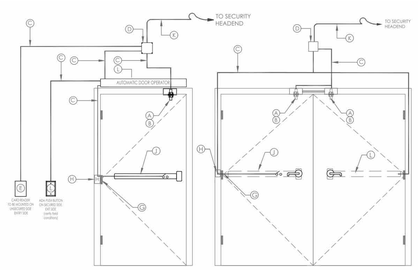
ADA ACCESS CONTROL DOOR w/ COMPANION DOUBLE DOORS - CARD READER, DOOR CONTACT, AUTOMATIC DOOR OPERATOR, ELECTRIFIED CRASH w/BUILT-IN REX SWITCH - DOUBLE DOOR CONTACT,ELECTRIFIED LOCK & REX MOTION



CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

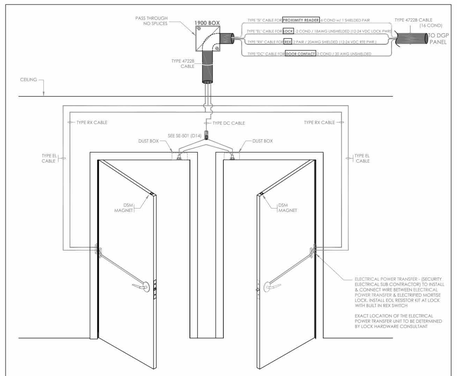
- (A) DRILL AND INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECTS INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
- (J) ELECTRIFIED CRASH BAR WITH BUILT-IN REX SWITCH.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENUM7728 CABLE ABOVE ACCESSIBLE CEILING.
- (L) AUTOMATIC DOOR OPERATOR AND ADA BUTTONS TO BE PROVIDED AND FURNISHED BY OTHERS.



Symbol on Dwgs: CR DDC XH CB REX ADA

DTL: D11

TWO SINGLE LEAF DOORS w/ ELECTRIFIED MORTISE LOCKS AND DOOR CONTACTS



CONDUIT AND WIRING ROUGH-IN LAYOUT

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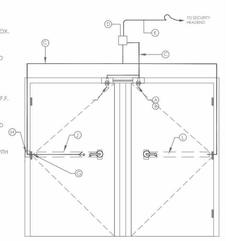
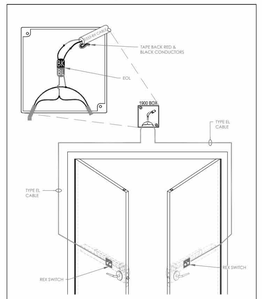


Symbol on Dwgs: CR DDC XH CB REX ADA

DTL: D12

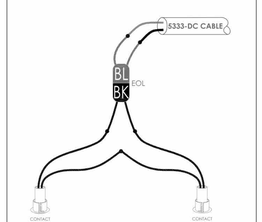
PANIC / CRASH BAR w/ BUILT-IN REX SWITCH - WIRING



Symbol on Dwgs: CB REX

DTL: D13

DOUBLE DOOR WITH DOUBLE CONTACTS - WIRED IN SERIES



Symbol on Dwgs: DDC

DTL: D14

ISSUED FOR:	
DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:
DATE: 12/08/2023
SCALE:
S.A. NO:
DRAWING NO: SE-501

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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Professional Seal

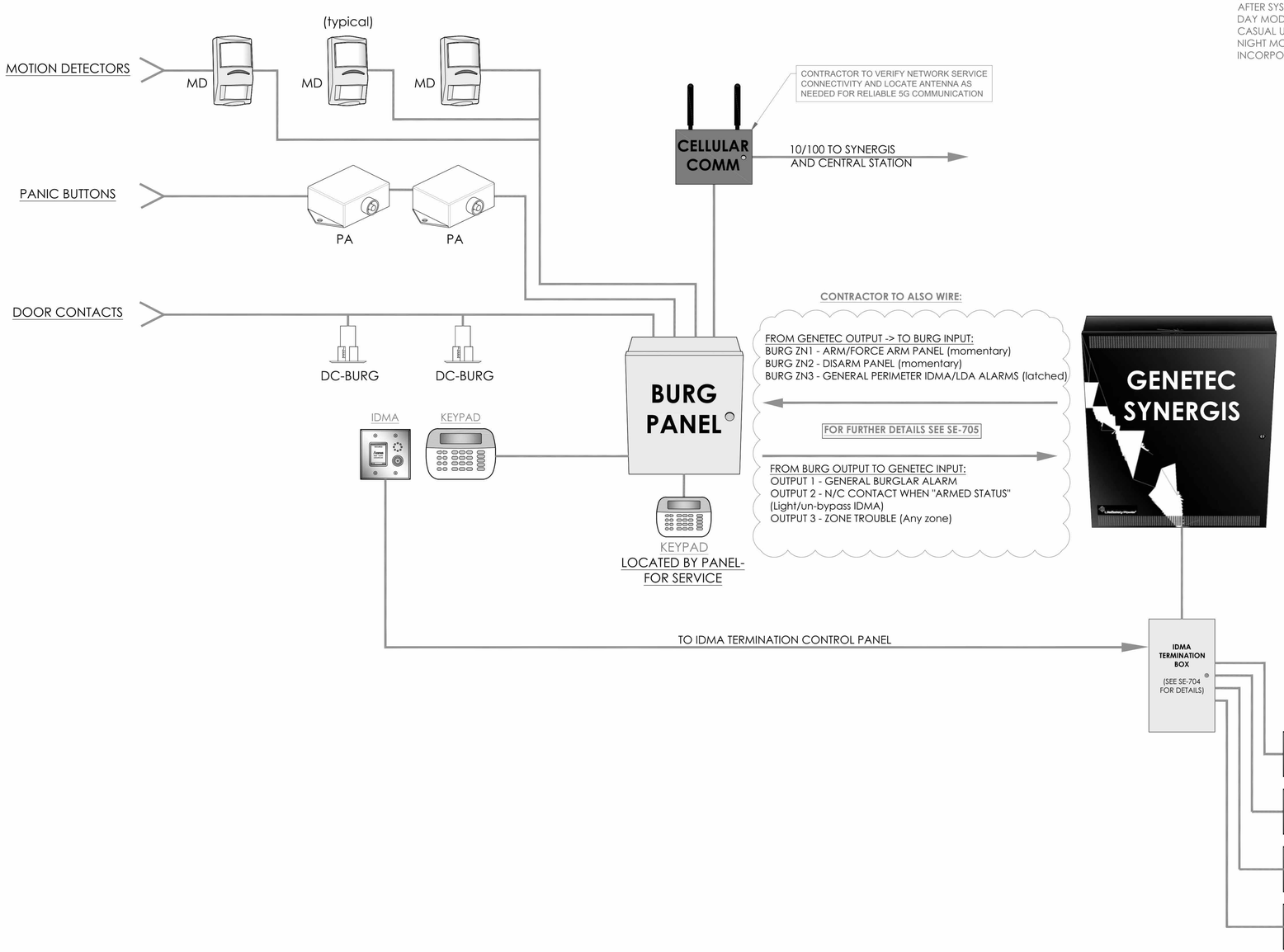
No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
SECURITY EQUIPMENT DETAIL DOOR TYPICALS-2

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE501

BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACE CONCEPT - ONE LINE DIAGRAM



NOTE:
CONTRACTOR TO INTERFACE DOOR ALARMS SUCH THAT THEY WILL BECOME PART OF THE BURGLAR ALARM SYSTEM AFTER SYSTEM ARMING.
DAY MODE - IDMA DOOR ALARMS ARE TO PREVENT CASUAL USE OF EMERGENCY DOORS
NIGHT MODE - IDMA DOOR ALARMS TO BE INCORPORATED INTO THE DSC BURGLAR ALARM SYSTEM

NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY IDMA VIA SYNERGIS & GENETEC IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3.
IDMA ALARMS ARE ANNOUNCED LOCALLY AT THE DOOR, THE SECURITY WORKSTATION SOFTWARE AND EMAIL NOTIFICATIONS

NOTES:
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ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM

DESIGNED BY:	DRAWN BY:	CHECKED BY:
EM	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE:
S.A. NO:
DRAWING NO: SE-701

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

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Harrison, NY 10528

KG+D ARCHITECTS, PC
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Professional Seal

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2	06/01/2020	DESIGN DEVELOPMENT
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Sheet Title

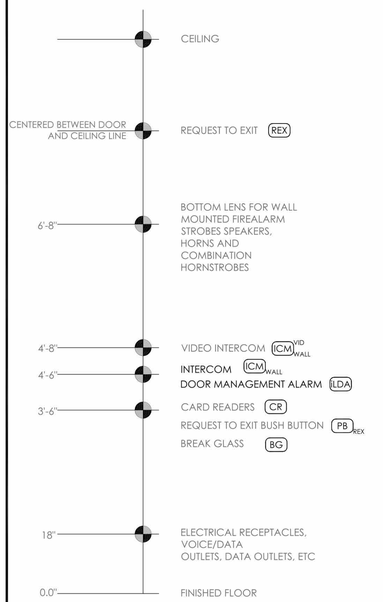
BURGLAR & ACCESS CONTROL OVERALL SYSTEM INTERFACE ONE LINE DIAGRAM

Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

SE701

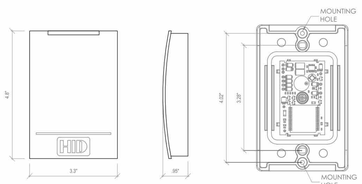
MOUNTING HEIGHT NOTES



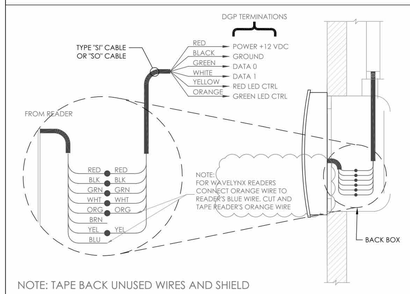
NOTE:
FIELD VERIFY WITH LOCAL ADA REQUIREMENTS

HID RP40-MULTI CLASS CARD READER

DEVICE DETAIL



WIRING DETAIL

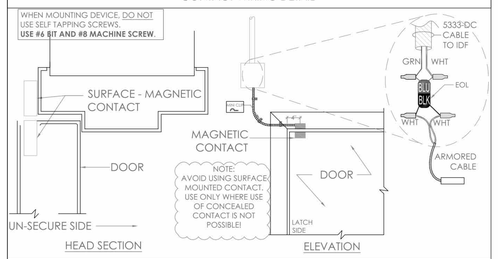


NOTE: TAPE BACK UNUSED WIRES AND SHIELD

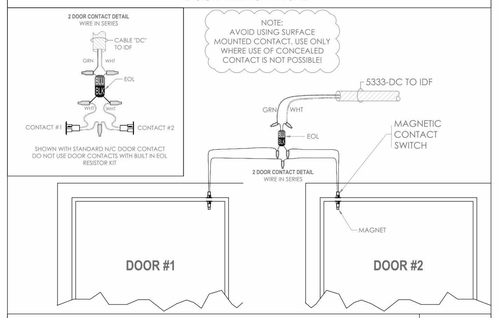
Symbol on Dwgs: (CR) | DTL: A01

SURFACE MOUNT DOOR CONTACT

CONTACT WIRING DETAIL



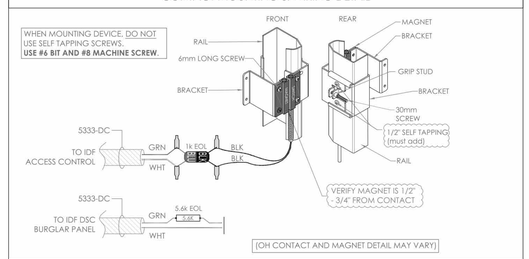
DOOR WIRING TYPICAL



Symbol on Dwgs: (DC) (DDC) | DTL: A02

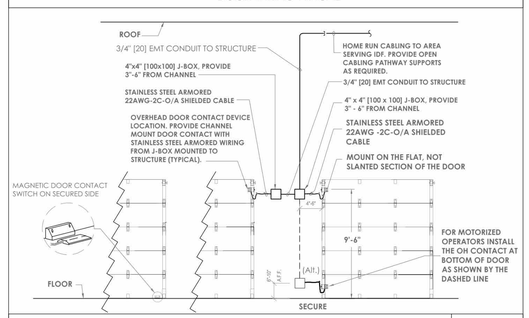
OVERHEAD DOOR CONTACT

CONTACT MOUNTING & WIRING DETAIL



(OH CONTACT AND MAGNET DETAIL MAY VARY)

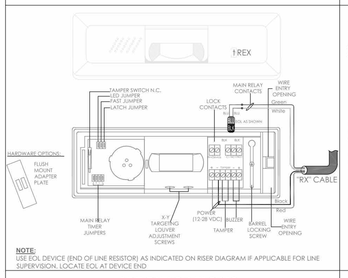
DOOR WIRING TYPICAL



Symbol on Dwgs: (OH) | DTL: A03

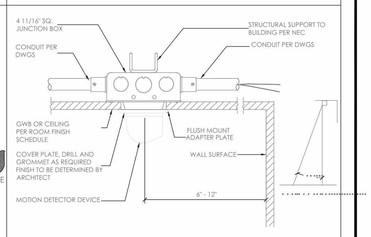
T-REX EXIT DETECTOR

DEVICE DETAIL



NOTE:
USE EOL DEVICE (END OF LINE RESISTOR) AS INDICATED ON RISER DIAGRAM IF APPLICABLE FOR LINE SUPERVISION. LOCATE EOL AT DEVICE END

CEILING MOUNTING

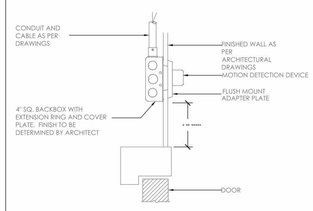


NOTE:
MOUNT REQUEST TO EXIT MOTION DETECTOR IN CEILING, PARALLEL TO DOOR. WHEN DOOR IS IN THE CLOSED POSITION.

SPECIFICATIONS

Detector Type	: Passive Infrared
Filter Technology	: Digital Signal Processing (DSP)
Detector Lens	: Curtain Type Fresnel Lens
Detection Range	: One hand: 3m(10ft) Whole Body :6m(20ft)
Power Consumption	: 12-28 VDC,50mA
Piezo Buffer	: 90 dB at 28VDC,5-28 VDC ,20mA(XL & XL2 only)
Main Relay contacts	: SPDT,1A max. @30VDC max
Main relay recycle time	: Adjustable,1/2 to 60 seconds
Main relay recycle time	: Fixed,3/4 second off
Lock control relay	: Available on LT2 and XL2 models only, solid state relay,N.C: 2A max.@30VDC,Timed at 2seconds fixed
Tamper Switch	: N.C: 100mA max.@30 VDC max.
Dimensions (H.W.D.)cm Dimensions (H.W.D.)in.	: 19x4.5 x4.75 : 7-1/8x1-3/4x1-7/8
Indicator light	: Red/Green LED
Certifications	: UL294,CE,FCC

WALL MOUNTING

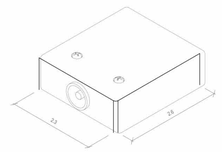


NOTE:
DEVICE CENTERLINE SHALL MATCH CENTERLINE OF DOOR

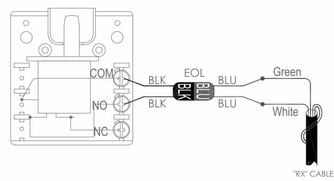
Symbol on Dwgs: (RTE) | DTL: A04

SURFACE MOUNT DOOR RELEASE

DEVICE DETAIL



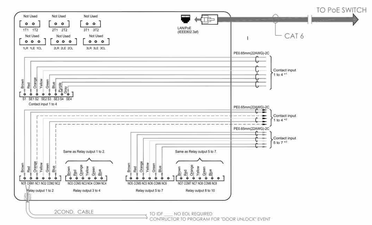
WIRING DETAIL



Symbol on Dwgs: (DR) | DTL: A05

AIPHONE INTERCOM RELAY

WIRING DETAIL



Symbol on Dwgs: (IC) | DTL: A06

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ISSUED FOR:

DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson,inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE:
S.A. NO:
DRAWING NO: SE-704

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

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2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title
SECURITY EQIPMENT DETAIL 2 ACCESS DEVICE TYPICALS

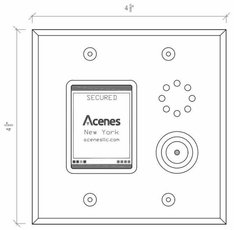
Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE704

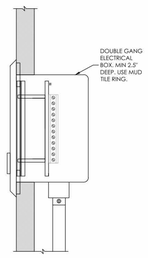
ACENES,LLC - IDMA

INTELLIGENT DOOR MANAGEMENT ALARM

DEVICE DETAIL



ELECTRICAL BACKBOX



SPECIFICATIONS

Model: INTELLIGENT DOOR MANAGEMENT ALARM (IDMA)

Input Voltage: Range of 12-24 VDC

Mounting: 2-Gang, min 2.5" deep electrical box

Terminal strips: 2 x 12 pin fixed terminal strips accept up to 18 AWG wires

Alarm sounder

Voltage rating: @95 dB or 105dB

Pulsing tones indicate warning alarm

Decibel(dB) level is programmable

Time Delays

Access delay: Shunts the alarm function for the duration of the delay.

Warning delay: Sets the duration of the warning alarm.

Alarm automatic reset delay: Sets the duration of an alarm if the automatic reset feature is enabled.

Operational Functions:The IDMA display will show various device status via the LCD display

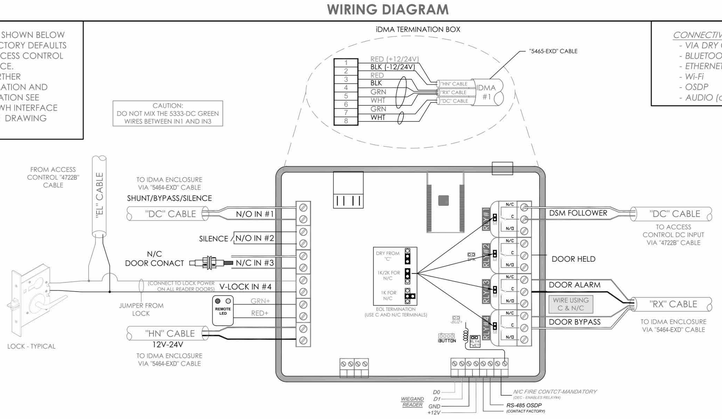
Available on the App Store

VISIT THE APP STORE - DOWNLOAD
ACENES IDMA APP

WIRING DIAGRAM

WIRING SHOWN BELOW ARE FACTORY DEFAULTS FOR ACCESS CONTROL INTERFACE. FOR FURTHER INFORMATION AND TERMINATION SEE IDMA-SWH INTERFACE SAMPLE DRAWING

CAUTION: DO NOT MIX THE 3333-DC GREEN WIRES BETWEEN IN1 AND IN3



CONNECTIVITY:
- *VIA DRY CONTACTS*
- *BLUETOOTH*
- *ETHERNET*
- *Wi-Fi*
- *OSDP*
- *AUDIO (optional)*

Symbol on Dwgs: IDMA

DTL: A06

LENEL - EOL VALUES				
STATE	**UNPLUGGED**	**PLUGGED TO BOARD**		
	OHMS	OHMS		VOLTS
SECURE	1,000	650		1.9V
ALARM	2,000	950		2.9V
CUT	INFINITY	1250		5V
SHORT	UP TO 50	UP TO 50		<1V
1. ALLOW FOR 10% TOLORANCE				
2. OTHER VALUES = TROUBLE				

IDMA TERMINATION MATRIX				
CLOSET	**BOX**	**PORT**	**CAD**	**LOCATION**
IDF - 1	ENCLOSURE - 1	1	1-E1-01	DOORS 113G & 113H
		2	1-E1-02	Door 123B
		3	SPARE	
		4	SPARE	
		5	SPARE	
		6	SPARE	
		7	SPARE	
		8	SPARE	

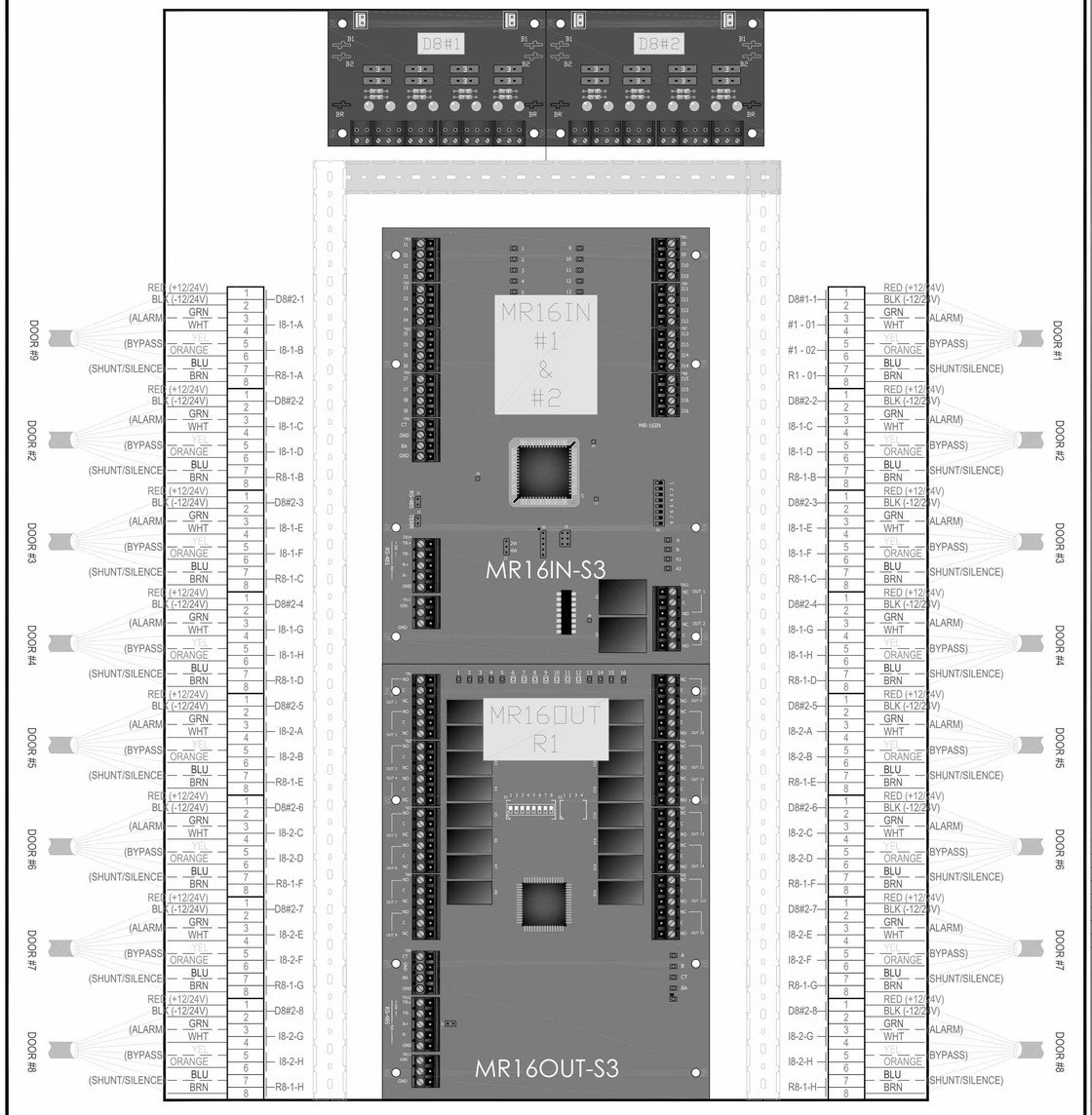
MATRIX TABLE SHOWN FOR REFERENCE ONLY.
INSTALLATION CONTRACTOR TO PROVIDE HIS OWN MATRIX.

IDMA TERMINATIONS

IDMA DOORS 1-8

DM-T

INTERNAL WIRING OF THIS CONTROL TERMINATION BOX WILL BE PERFORMED AND DELIVERED BY ITG.
CONTRACTOR TO TERMINATE 8 CONDUCTOR ("5465-EXO") CABLE AS PER SHOWN COLOR CODED TERMINALS



NOTE: IDMA's 9-16 ARE TERMINATED IN IDMA TERMINATION BOX #2 (not shown) IN DEVICE POSITIONS 1-8.
SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE ILDA/DMA TERMINATION MATRIX THIS PAGE

NOTE:
CONTRACTOR TO BUILD iDMA TERMINATION PANEL AS SHOWN.
WIRE SPLICING AND PARALLEL POWER DISTRIBUTION TO MULTIPLE DEVICES ARE NOT ALLOWED

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HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:
SECURITY EQUIPMENT DETAIL 3 IDMA DEVICE TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
EM	AO	IT

WORK ORDER NO:
DATE: 12/08/2023
SCALE:
S.A. NO:
DRAWING NO: SE-705

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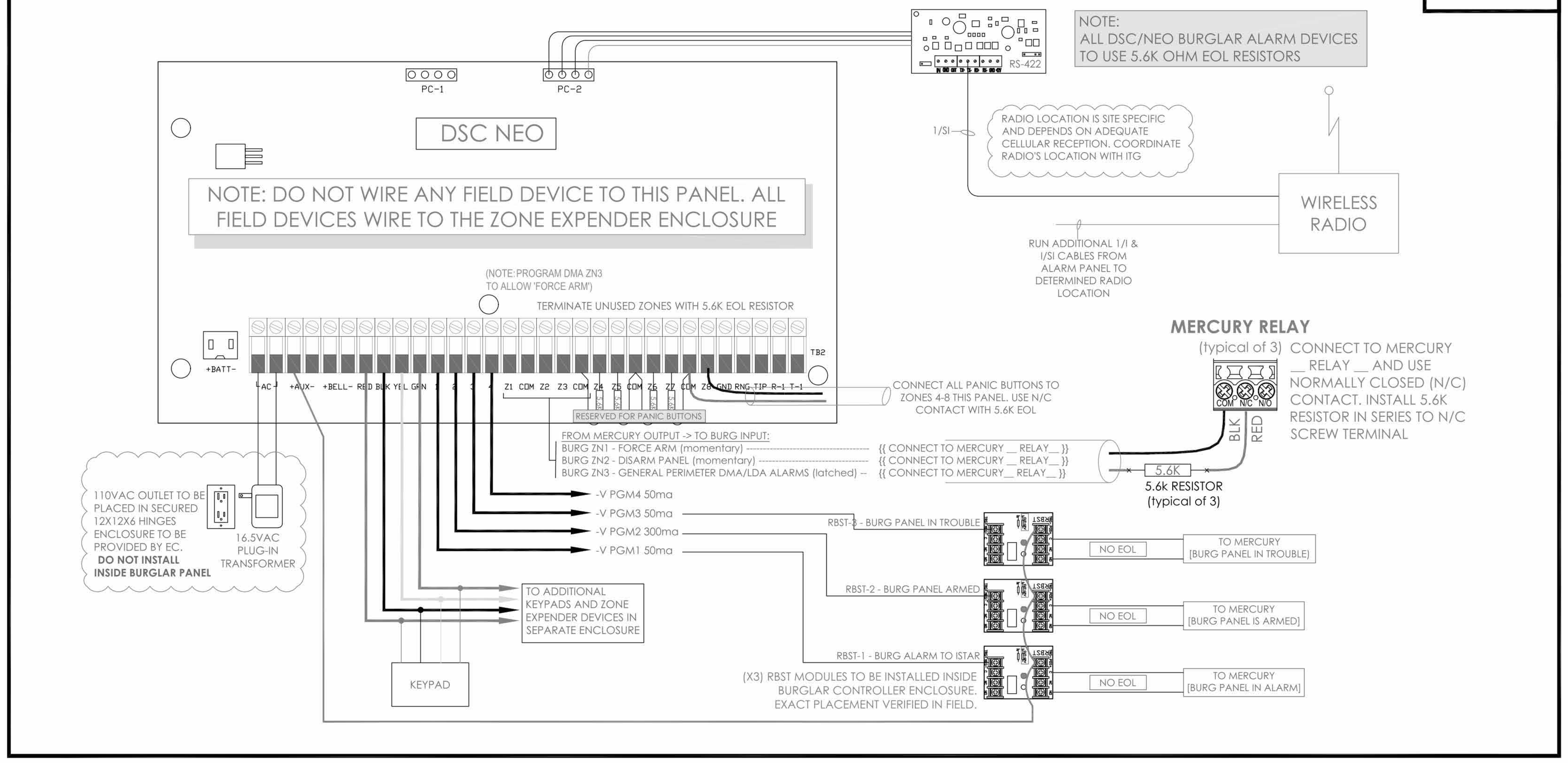
Job No.	Date
2020-1005	06/05/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number
SE705

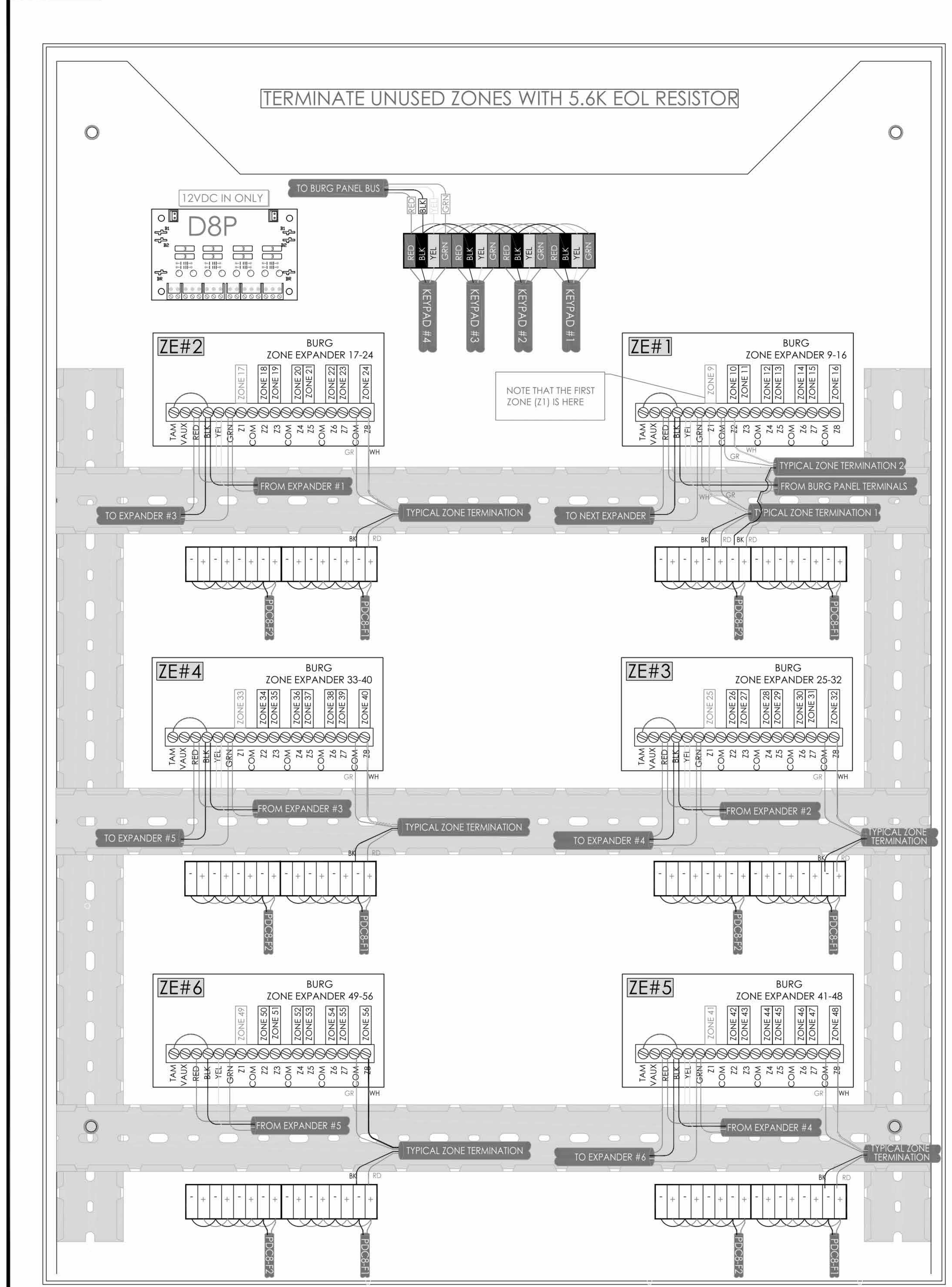
DSC NEO PANEL

NEO



BURGLAR ALARM ZONE EXPANDER MODULE CONFIGURATION & WIRING

BA-X



DEVICE TERMINATION MUST ADHERE ABOVE DEPICTION. OTHER THEN ADDING THE DEVICES NO SPLICING IS ALLOWED.

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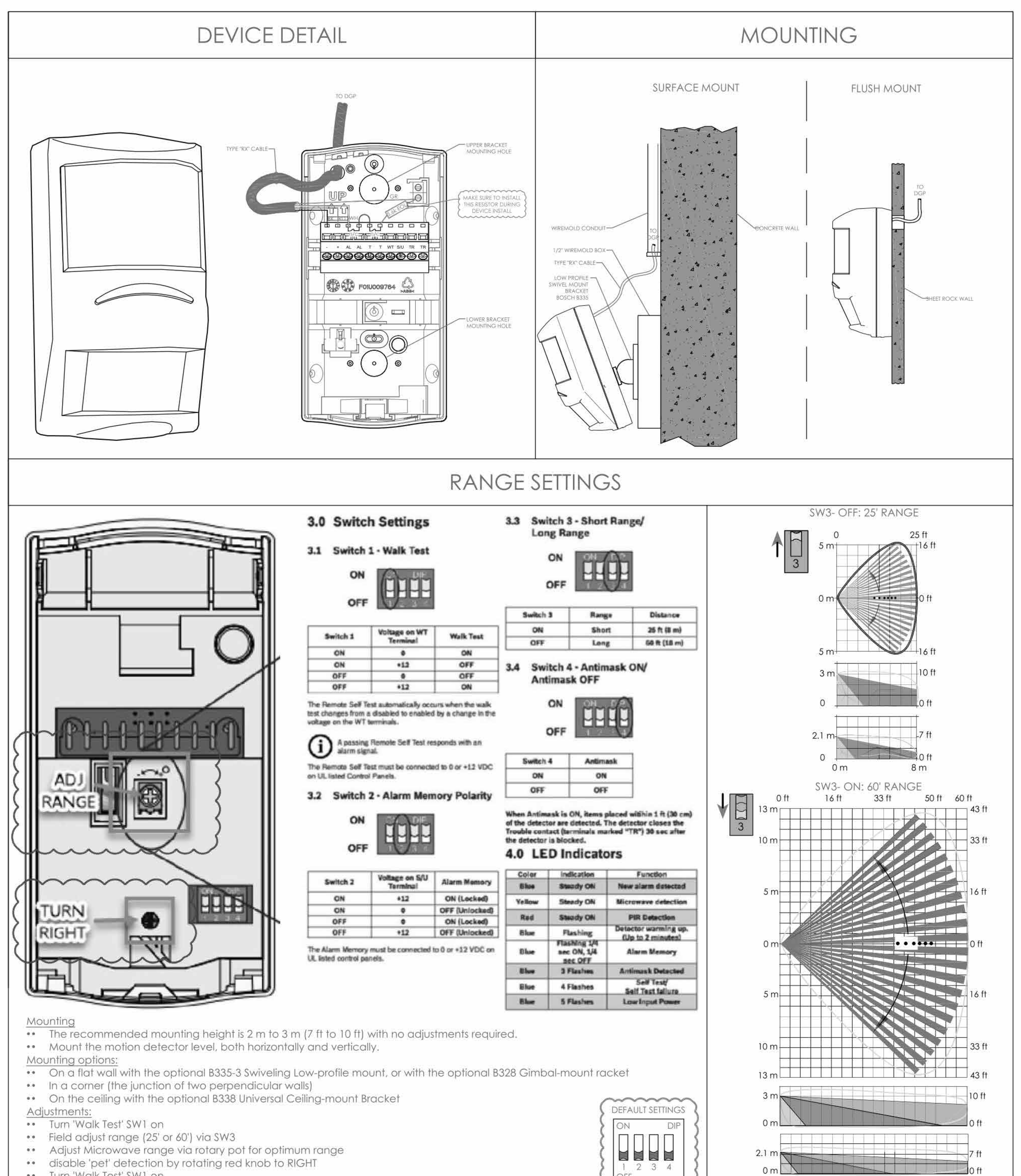
BOSCH PROFESSIONAL SERIES P/N: ISC-PDL1-W18G

DEVICE DETAIL

MOUNTING

RANGE SETTINGS



Mounting
- The recommended mounting height is 2 m to 3 m (7 ft to 10 ft) with no adjustments required.
- Mount the motion detector level, both horizontally and vertically.

Mounting options:
- On a flat wall with the optional B335-3 Swiveling Low-profile mount, or with the optional B328 Gimbal-mount racket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional B338 Universal Ceiling-mount Bracket

Adjustments:
- Turn 'Walk Test' SW1 on
- Field adjust range (25' or 60') via SW3
- Adjust Microwave range via rotary pot for optimum range
- disable 'pet' detection by rotating red knob to RIGHT
- Turn 'Walk Test' SW1 on

Symbol on Dwgs: MS

DTL: A08

BURGLAR ALARM TERMINATION MATRIX

	PORT	ZONE	DEVICE TAG	LOCATION
PANEL		1	NEED 5.6k	Force-Arm panel. Momentary contact from Mercury
		2	NEED 5.6k	Disarm panel. Momentary contact from Mercury
		3	NEED 5.6k	IDMA Door Alarm - Dry Contact from Mercury
		4	1-PA-01	OPEN OFFICE 103
		5	SPARE	
		6	SPARE	
		7	SPARE	
		8	SPARE	
		RBST RLY 1	NO EOL	Burg "ALARM" notification to Mercury
		RBST RLY 2	NO EOL	"ARMED" Status to Mercury (to reset IDMA shunt)
		RBST RLY 3	NO EOL	Burg "TROUBLE" notification to Mercury
		SIREN	SPARE	
		SIREN	SPARE	
		SIREN	SPARE	
		SIREN	SPARE	
		SIREN	SPARE	
		KPD PNL		
		KPD CAS		
		5G RADIO		
ZE #1	Z1	9	LL-ZE1-01	STAIR A
	Z2	10	LL-ZE1-02	ELEC B03
	Z3	11	LL-ZE1-03	STAIR B
	Z4	12	LL-ZE1-04	STAIR A
	Z5	13	LL-ZE1-05	STOR B04
	Z6	14	LL-ZE1-06	STOR B04
	Z7	15	LL-ZE1-07	STOR B04
	Z8	16	LL-ZE1-08	DOOR B06B
ZE #2	Z1	17	LL-ZE2-01	STAIR D
	Z2	18	LL-ZE2-02	STAIR D
	Z3	19	1-ZE2-03	CORR C101
	Z4	20	1-ZE2-04	GYMNASIUM 113
	Z5	21	1-ZE2-05	FITNESS 123
	Z6	22	1-ZE2-06	MECH 125
	Z7	23	1-ZE2-07	GYMNASIUM 113
	Z8	24	1-ZE2-08	REAR ENTRY CORRIDOR
ZE #3	Z1	25	1-ZE3-01	GYMNASIUM 113
	Z2	26	1-ZE3-02	STAIR C
	Z3	27	1-ZE3-03	DOOR 100F
	Z4	28	1-ZE3-04	DOOR 100D
	Z5	29	1-ZE3-05	DOOR 100C
	Z6	30	1-ZE3-06	DOOR 100A
	Z7	31	1-ZE3-07	LOBBY 101
	Z8	32	1-ZE3-08	CORR 204
ZE #4	Z1	33	2-ZE4-01	VIEWING 200
	Z2	34	2-ZE4-02	DOOR C201
	Z3	35	2-ZE4-03	VIEWING 200
	Z4	36	SPARE	
	Z5	37	SPARE	
	Z6	38	SPARE	
	Z7	39	SPARE	
	Z8	40	SPARE	

MATRIX TABLE SHOWN FOR REFERENCE ONLY. INSTALLATION CONTRACTOR TO PROVIDE HIS OWN MATRIX.

NOTE:
CONTRACTOR TO BUILD BURGLAR ALARM TERMINATION PANEL USING THIS TEMPLATE.
CONTRACTOR TO BUILD THE ABOVE ENCLOSURE AND WIRE AS SHOWN - WIRE SPLICING AND PARALLEL POWER DISTRIBUTION TO MULTIPLE DEVICES ARE NOT ALLOWED

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SECURITY EQUIPMENT
DETAIL 4
BURG DEVICE TYPICALS

EM DESIGNED BY | AO DRAWN BY | IT CHECKED BY

WORK ORDER NO: | DATE: 12/08/2023 | SCALE:

S.A. NO: | DRAWING NO: SE-705A

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Sheet Title
SECURITY EQUIPMENT DETAIL 4 BURG DEVICE TYPICALS

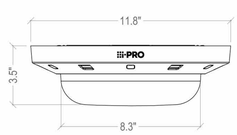
Job No. 2020-1005 | Date 06/05/24

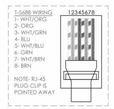
Scale AS NOTED | Drawn / Checked Author Checker

Sheet Number
SE705A

i-PRO
4x4MP (16MP) OUTDOOR MULTI-DIRECTIONAL CAMERA WITH AI ENGINE

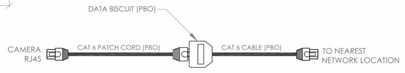
DEVICE DETAIL



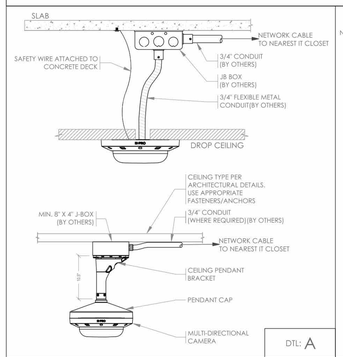


NOTES:

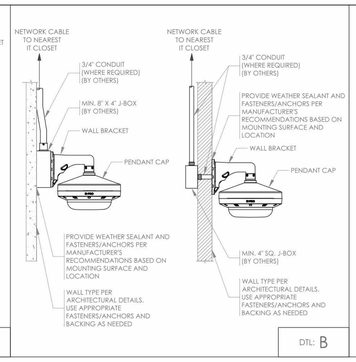
1. CAMERA LOCATIONS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH THE ARCHITECT AND ADJUST FOR FIELD CONDITIONS AS NEEDED. ALLOW A MINIMUM OF FIFTEEN (15) FEET COILED CABLE SLACK FOR CAMERA LOCATION ADJUSTMENTS.
2. FOR EXPOSED, DAMP OR WET LOCATIONS, USE APPROVED MATERIALS AND METHODS PER APPLICABLE CODES TO PREVENT INCURSION OF WATER INTO CONDUIT/JUNCTION BOX.



MOUNTING DETAIL



DTL: A



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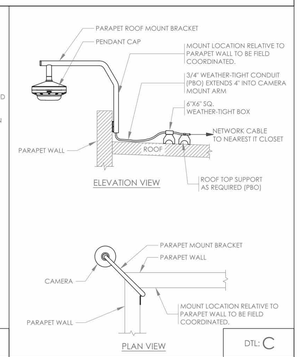


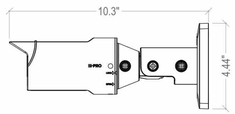
DTL: C

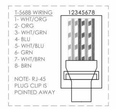
DTL: C1

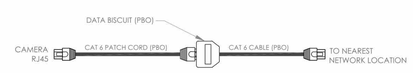
Symbol on Dwgs:

i-PRO
4MP OUTDOOR BULLET NETWORK CAMERA

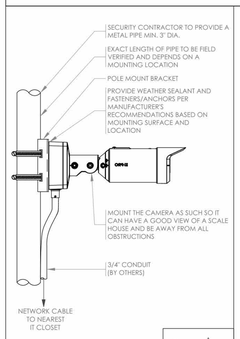
DEVICE DETAIL







MOUNTING DETAIL



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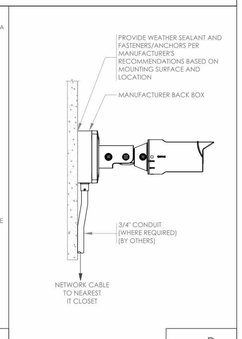


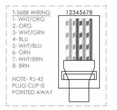
DTL: B

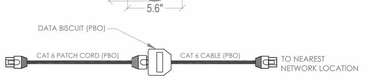
Symbol on Dwgs:

DTL: C2

MOBOTIX
4K OUTDOOR LICENCE PLATE RECOGNITION CAMERA

DEVICE DETAIL





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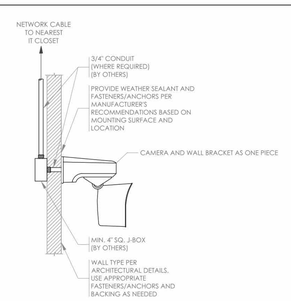


NOTES:

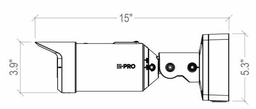
1. CAMERA LOCATIONS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH THE ARCHITECT AND ADJUST FOR FIELD CONDITIONS AS NEEDED.
2. FOR EXPOSED, DAMP OR WET LOCATIONS, USE APPROVED MATERIALS AND METHODS PER APPLICABLE CODES TO PREVENT INCURSION OF WATER INTO CONDUIT/JUNCTION BOX.

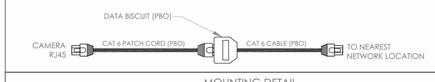
Symbol on Dwgs: LPR

DTL: C3

i-PRO
5MP OUTDOOR BULLET NETWORK CAMERA

DEVICE DETAIL





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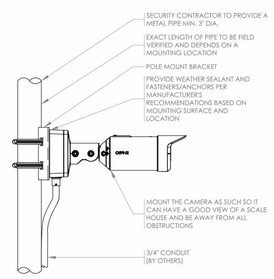

NOTES:

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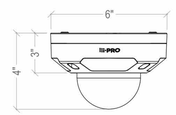
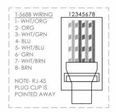
Symbol on Dwgs:

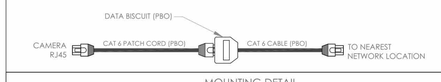
DTL: C4

i-PRO
4MP OUTDOOR DOME NETWORK CAMERA

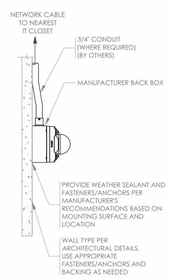
DEVICE DETAIL







MOUNTING DETAIL



NOTES:

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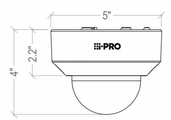
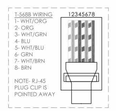
Symbol on Dwgs:

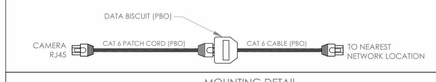
DTL: C5

i-PRO
4MP INDOOR DOME NETWORK CAMERA

DEVICE DETAIL







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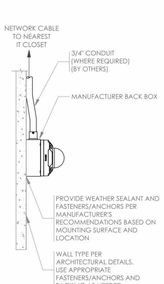

NOTES:

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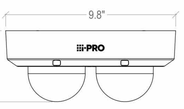
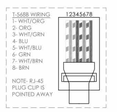
Symbol on Dwgs:

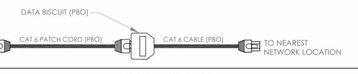
DTL: C6

i-PRO
2 X4MP OUTDOOR DUAL SENSOR NETWORK CAMERA

DEVICE DETAIL







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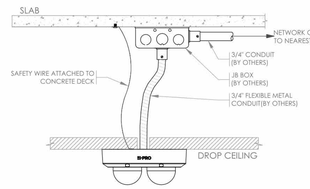

NOTES:

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2. FOR EXPOSED, DAMP OR WET LOCATIONS, USE APPROVED MATERIALS AND METHODS PER APPLICABLE CODES TO PREVENT INCURSION OF WATER INTO CONDUIT/JUNCTION BOX.

Symbol on Dwgs:

DTL: C7

NOTES:

1. DEVICE PLACEMENT, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND RELATED DIVISIONS 27, 28 SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO OWNER.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF OWNER'S SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH 'E' SIZE HARD COPY (2 SETS) AND DIGITAL FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEMS COMMISSIONING AND PROGRAMMING.
9. DEVICE ADDRESSING AS SHOWN IS FOR REFERENCE ONLY. CONTRACTOR TO DEVELOP AND USE ITS OWN DEVICE ADDRESSING SCHEMA

NOTE:
THE BIDDING LOW VOLTAGE CONTRACTOR (LVC) IS RESPONSIBLE TO FURNISH, INSTALL, PROGRAM AND COMMISSION ALL SECURITY AND TELEDATA DEVICES TO PROVIDE THE OWNER WITH A COMPLETE TURN-KEY SOLUTION

ISSUED FOR:	
DATE	COMMENTS
06/05/2024	ISSUED FOR BID

ITG Larson, INC.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

HARRISON RECREATION CENTER-KDG
270 HARRSON AVE
HARRISON, NY 10528

TITLE:

SECURITY EQUIPMENT DETAIL - 5 CCTV TYPICALS

EM	AO	IT
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO.:	DATE: 12/08/2023
	SCALE:
S.A. NO.:	DRAWING NO.: SE-706

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

Professional Seal

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No.	Date	Issue
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

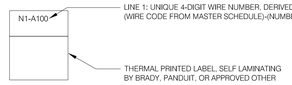
SECURITY EQUIPMENT DETAIL - 5 CCTV TYPICALS

Job No.	Date
2020-1005	06/05/24
Scale	Drawn / Checked
AS NOTED	Author Checker

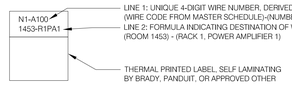
Sheet Number

SE706

CABLE LABELING SYSTEM - RACK WIRING



CABLE LABELING SYSTEM - SITE WIRING



WIRE PREFIXES

M	MICROPHONE
A	ANALOG AUDIO
D	DIGITAL AUDIO
S	SPEAKER
V	VIDEO
DV	DIGITAL VIDEO
C	CONTROL
N	NETWORK
F	FIBER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ATT	ATTENUATOR
AUD	AUDIENCE
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BA	BALANCING AMP/BUFFER AMP
BAL	BALANCED
BB	BLACK BURST
BLK	BLACK
BOT	BOTTOM
C	CONDUIT
CAM	CAMERA
CASS	CASSETTE
CD	COMPACT DISC
CF	CLEAN FEED
CG	CHARACTER GENERATOR
CH	CHANNEL
CKT	CIRCUIT
COMP/LIM	COMPRESSOR/LIMITER
CLG	CEILING
COMM	COMMUNICATIONS
CPU	CENTRAL PROCESSOR UNIT
CTL	CONTROL
CV	COMPOSITE VIDEO
DA	AUDIO DISTRIBUTION AMP
DAT OR RDAT	DIGITAL AUDIO TAPE RECORDER
DCA	DIGITALLY CONTROLLED ATTENUATOR
DD	DIGITAL DELAY
DECODE	DECODER
DEMOD	DEMODULATOR
DEMUX	DEMULTIPLEXER
DIA	DIAMETER
DIG	DIGITAL
DIM	DIMENSION
DISS	DISSOLVE
DIST	DISTRIBUTED
DSP	DIGITAL SIGNAL PROCESSOR
DVD	DIGITAL VIDEO DISC
DVE	DIGITAL VIDEO EFFECTS
DWG	DRAWING
EBVDA	EXTENDED BANDWIDTH VIDEO DA
EFF	EFFECTS
ELEC	ELECTRICAL, ELECTRIC
ELEV	ELEVATION
ENC	ENCODER
EQ	EQUALIZER
EQUIP	EQUIPMENT
EQVDA	EQUALIZING VDA
ESS	ELECTRONIC STILL STORE
EXT	EXTERNAL, EXTERIOR
EC	EMPTY CONDUIT
FB	FOLDBACK
FRX	FIBER OPTIC RECEIVER
FTX	FIBER OPTIC TRANSMITTER
GA	GAUGE
GBRS	GREEN/BLUE/RED/SYNC
GEN	GENERATOR
GL	GENLOCK
GRND	GROUND
HF	HIGH FREQUENCY
HORIZ	HORIZONTAL
IC	INTERCOM
ID	INSIDE DIAMETER
IF	INTERFACE
IG	ISOLATED GROUND
I/P	INPUT
INS	INSERT
INSUL	INSULATION
INT	INTERIOR
ISOL	ISOLATION, ISOLATED
JBA	JUNCTION BOX-AUDIO
JBB	JUNCTION BOX-BROADCAST
JBC	JUNCTION BOX-CONTROL
JBDA	JUNCTION BOX-DIGITAL AUDIO
JBDS	JUNCTION BOX-DIGITAL SIGNAGE
JBF	JUNCTION BOX-FIBER
JBH	JUNCTION BOX-HAWKEYE
JBM	JUNCTION BOX-MASTER PULL BOX
JBN	JUNCTION BOX-NETWORK
JBP	JUNCTION BOX-AC POWER, TECHNICAL
JBPOS	JUNCTION BOX-POINT OF SALE
JBS	JUNCTION BOX-SPEAKER
JBSB	JUNCTION BOX-SITE BOX
JBRF	JUNCTION BOX-RF
JBV	JUNCTION BOX-VIDEO
K	RELAY
L	LEFT
LA	LINE AMPLIFIER
LAN	LOCAL AREA NETWORK
LF	LOW FREQUENCY
LIM	LIMITER
L/R	LEFT/RIGHT
LTC	LONGITUDINAL TIME CODE
MON	MONITOR
MTL	MATERIAL
MATV	MASTER ANTENNA TELEVISION
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MF	MID FREQUENCY
MFR	MANUFACTURER
MIC	MICROPHONE
MIX	MIXER
MOD	MODULATOR
MON	MONITOR
MTD	MOUNTED
MTR	METER
MTRX	MATRIX
MUX	MULTIPLEXER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFE	OWNER FURNISHED EQUIPMENT
O/P	OUTPUT
PA	POWER AMPLIFIER
PAL	PHASE ALTERNATE LINE
PAREQ OR PEQ	PARAMETRIC EQUALIZER
PB	PLAYBACK OR PUSH BUTTON
PDA	PULSE DISTRIBUTION AMP
PGM	PROGRAM
PLT	PLATE
PNL	PANEL
PROC	PROCESSING AMPLIFIER
PROJ	PROJECTOR
PS OR PSU	POWER SUPPLY UNIT
PXM	PICTURE MONITOR
R	RIGHT
RA	RANDOM ACCESS
RAD	RADIUS
REC	RECORD, RECORDER
RECPT	RECEPTACLE
RECV (R)	RECEIVE (R)
REINF	REINFORCEMENT
REV	REVERB
RGBS	RED, GREEN, BLUE, SYNC
RVC	REMOTE VOLUME CONTROL
RX	RECEIVER
SCHED	SCHEDULE
SECT	SECTION
SEL	SELECT
SND	SOUND
SPKR	SPEAKER
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
ST	STEREO
SURR	SURROUND
SW	SWITCH
SYM	SYMMETRICAL
SYNC	SYNCHRONIZATION SIGNAL
TC	TIME CODE OR TELECONFERENCE
TCON	TELECONFERENCE
TRK	TRACK
TRANS	TRASMIT
TX	TRANSMITTER
TYP	TYPICAL
UDI	UNIVERSAL DIGITAL INTERFACE
UNBAL	UNBALANCED
UHF	ULTRA HIGH FREQUENCY
U.O.N.	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
VBS	VIDEO/BURST/SYNC (COLOR COMPOSITE VIDEO)
VCP	VIDEO CASSETTE PLAYER
VCR	VIDEO CASSETTE RECORDER
VDA	VIDEO DISTRIBUTION AMP
VDISC	VIDEO DISC
VERT	VERTICAL
VID	VIDEO
VITC	VERTICAL INTERVAL TIME CODE
VTR	VIDEO TAPE RECORDER
VOP	VIDEO OVERHEAD PROJECTOR
W	WATT
W/	WITH
W/O	WITHOUT
XOVER	CROSSOVER
Y/C	LUMINANCE/CHROMINANCE
DUB	LUMINANCE/SUB-CHROMINANCE
Y/R-Y/B-Y	LUMINANCE/DIFFERENCE

LEGEND - AVV and TELEVISION SYSTEMS

Floor mounted conduit stubup. Expose 24".

Ceiling speaker. Ceiling recessed speaker in areas with dropped ceiling, pendant speaker in areas with open ceiling. Open ceiling areas require 1" C. to nearest cable tray or dropped ceiling. U.O.N. Center in tiles where applicable, unless shown otherwise on drawings.

SP-02 — Surface mounted speaker with specific model or series designation. Include and install with manufacturer bracket UON, include bracket if designated as a separately purchased accessory.

JBx-1.2 / JBx-1.1 — Junction Box surface mounted, or Junction Box recessed in wall. Junction Box or JB designation does not imply or require cable spilice.

- Above-ground boxes shall be Hoffman Concept Series Enclosures meeting NEMA 4, 12, or 13 standards, unless otherwise noted on drawings or master schedule.
- In-ground outdoor boxes shall be Hubbell Quazite with cover and open bottom, unless otherwise noted on drawings or master schedule.

Box sizes are indicated on master schedule, submit for approval any change in box sizing or model. Factory finish shall be factory gray unless other wise noted or direct by architect. Verify color with consultant and architect.

JBA - Audio	JBDA - Digital audio	JBN - Network / Data
JBS - Speaker	JBV - Video	JBMS - Multiple Tech System Signal
JBW - Wifi System (IT)	JBAV - General AV	JBSEC - Security

W — Wireless access point antenna (OFE).

JBP-x-1 — Power junction box. Shown for electrical engineer's reference only. See power matrix (AVT-5XX) for requirements. Refer to electrical drawings for all power. All power must be installed as per electrical engineer's requirements.

2" C. TO XXX — Conduit for AVT/IT system wiring, destination given in callout. Conduit shall be Metallic Type EMT or rigid metal above ground. Size noted on drawing.

Wiremold or raceway, sized as noted on drawing. Telescopic fittings may be required to achieve required length. Furnish with adaptors, covers, connectors, closing plates, etc. as required.

Cable tray. Model and size varies, see drawings / specifications.

Wall Boxes

TV 60" — Television drop connector plate and box. Duplex power required at matching height. 1" conduit stub-up required to dropped ceiling. If no drop ceiling is present, 1" conduit required to nearest cable tray. See cable schedule. Subscript indicates box centerline mounting height. At ceiling mounted locations, power and signal should be installed in ceiling. All TVs are OFE.

4 18" — TV system tap with number of ports shown. Subscript indicates box centerline mounting height, U.O.N.

Pole or mount for AVT (TV, Speakers, etc).

NOTES - GENERAL

1. Refer to electrical drawings for final power locations. Power may be ganged in floor boxes with Tel/Data/TV where nearby. Duplex power required at all TV locations.
2. All hardware employed for any purpose shall be stainless steel.
3. Refer to electrical drawings for all P-(X) power box circuiting specifications and power conduit. Power boxes are shown for location purposes only. Power schedule on AVT drawings should match electrical drawings, submit RFI if otherwise.

NOTES - CONDUIT, WIRING, & JUNCTION BOXES

1. All conduit shown is new, unless specifically identified as existing. Exception is site conduit drawings, see callouts.
2. AVT in-ground conduit must be installed 36" or more from high voltage feeder AC power conduit, any direction except when crossing, when 12" spacing may be employed.
3. All AVT and IT conduit must utilize wide radius sweep turns - no elbows or LBs are acceptable.
4. Aggregate AVT conduit together into groups with fixed separators, and encase conduit banks in concrete.
5. All conduit shall be deburred, cleaned, furnished with pull tapes, and tagged. Conduit pull/measuring tapes shall be polyester length marked from Greenlee or Klein.
6. Verify with and obtain approval of the consultant for all conduit routing and related proximity to AC power.
7. Exterior site conduit in ground is primarily schedule 80 PVC U.O.N. Elbows turning conduit up out of ground, and above ground conduit, shall be rigid galvanized steel.
8. Ensure in-ground conduit runs clear of light pole footings
9. All wiring run indoors and not in conduit must be plenum rated.
10. All wiring not in conduit must be bundled neatly in tray or with J-hooks in plenum areas.
11. Install junction boxes on frame of Unistrut or Kindorf construction channel supported to structure U.O.N. Fasten channel to sides and rear of box only - leave top and bottom of box clear for conduit entry. In some cases conduits may come into the side of the box as well, if approved by consultant.
12. Size all AC power conduit required on this drawing according to the NEC and the electrical specifications, with spare capacity in addition. Propose sizes for review on the submittal drawings.
13. Electrical contractor must submit conduit routing drawings and wire routing drawings prior to installation.
14. Typical junction box installation height is 18" above floor, unless otherwise noted.

NOTES - AUDIO VIDEO TELEVISION SYSTEMS

1. Audio, AVT, Broadcast Cabling, & I.T. systems may be referred to as 'Technical Systems" in these documents.
2. All interior A/V/T, Broadcast cabling, and IT system conduit shall be metallic, EMT, or rigid metal, sized as shown on schedule / drawings. If size is not indicated, conduit shall be minimum 3/4" in diameter. No 1/2" conduit shall be employed. Screw set fittings are acceptable. Flexible conduit shall be liquid tight Alflex Ultralite Type CB or approved equal. Nonwatertight flexible conduit is NOT acceptable.
3. All exterior A/V/T system conduit shall be galvanized steel, aluminum or Schedule 80 PVC, as shown on drawings or as called out in wire schedule / drawings. If size is not indicated, conduit shall be 2" in diameter. Use only manufactured fittings from the same manufacturer.
4. All conduit shall be deburred, cleaned, furnished with pullcords, and capped and tagged. Pullcords shall be length marked type by Klien or Greenlee.
5. Install all conduit, particularly all AC power conduit, strictly in accordance with the NEC (current edition) and all codes locally applicable.
6. Do not run technical system conduit parallel to AC power conduit closer than 12". Do not allow these conduits to touch at any point. Space speaker conduit away from other AVT system conduit by at least 8".
7. Install pull box or pull fittings at least every 270 degrees total bend (any and all direction), and for every 100 feet of straight run. Employ only sweep turns, with radii as defined in the NEC. LB, LL, RR and similar conduit bodies are not acceptable for AVT & IT systems.
8. "JB" may denote junction or pull box, cable spilice is not implied. For wall boxes, the helght AFF (Above Finished Floor) or AFC (Above Finished Concrete) refers to the bottom of box unless otherwise noted. If no height is shown, box shall be 18" AFF.
9. Keep signal types strictly segregated throughout the conduit system. Ensure conduit connection in or out of boxes is to the section of the box designated for that signal type. Do not consolidate or mix conduits in one large box that allows mixing of signal types. Furnish separate boxes or a completely partitioned box. Under no circumstances consolidate AC power with technical system signals.
10. For boxes with partitions, carefully note which signal type is in each section, and install the conduit to match with attention to cable dress and routing within the box. Confirm plan for cable dress with the Consultant.
11. If locations are not dimensioned on the drawings, locate technical system floor boxes as far from AC power presets or floor boxes as possible. Terminate interrupted presets with closure panels and insure there is no metal-to-metal contact between preset and floor box by filling the space around the floor box with grout.
12. Square D floor boxes, "Square Duct" or Wiremold wireway, and cable tray, or similar products, shall be supplied with all closures, fittings, connectors, standoffs, supports, hardware, etc. required for a complete, continuous, and sealed system. Barrier fire ratings shall be maintained.
13. No cable in conduit shall be spliced, unless specifically indicated AND specified AND approved.
14. Absence of cable identification for a conduit does not necessarily indicate cable is not required or should not be installed. Tick marks on conduit, if shown, indicate the number of individual cables installed therein.
15. Plates furnished under the Audio/Video/Television or IT System contracts are intended to mate directly with the matching junction box. If site conditions require installation of the specified junction box back from the wall, floor, or ceilling surface, furnish and install plaster rings or extenders to maintain the integrity of the metal enclosure and mount the plate directly. CUSTOM EXTENDERS may be required and, if so, are included. Verify gypboard thicknesses.
16. The Electrical Contract includes all conduit, wireways, floor, wall, pull, and junction boxes, metal speaker back boxes, and AC power and ground feeds to JBP-nm number-1 boxes, permanently installed in the building or in architectural millwork, as shown on the drawings. Technical system cable and finish connector plates are included in the AVT contract U.O.N. However, cover plates and doors furnished with junction boxes by the manufacturer are included in the Electrical.
17. Where exact dimensions are not called out, the scale of these drawings is sufficiently accurate to determine the location of most junction boxes, wall or floor boxes, wireways, etc. Room dimensions and details have been taken from architectural drawings, but this is not an architectural drawing and only architectural drawings shall be consulted for exact dimensions and details. Bring any significant discrepancies or questions promptly to the attention of the consultant.
18. Not all symbols used in the legend are necessarily used in the drawing.
19. Electrical system work is governed by Specification Section 260000. Audio/Video/Television system work is governed by Specification Section 274141.

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Professional Seal

No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

Sheet Title

A/V/V SYSTEM NOTES & LEGEND

Job No. 2020-1005	Date 02/06/24
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

AV100

NOTES - GENERAL

1 INSTALL WOOD OR TREX INSULATING BASE UNDER AUDIO/VIDEO/TELEVISION AND NETWORK EQUIPMENT RACKS, EXCEPT FOR THOSE IN MILLWORK SUCH AS CONF 103B. REFER TO SPECIFICATIONS.

2 SIZE CONDUIT AS SHOWN. WHERE SIZE IS NOT INDICATED, CONDUIT SHALL BE 3/4" EMT. ALL INTERIOR CONDUIT SHALLB E EMT UNLESS OTHERWISE NOTED.

3 ALL HARDWARE IN THE A/V/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.

4 VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.

5 JUNCTION BOX MOUNTING HEIGHTS ARE TO THE BOTOM OF THE BOX, UNLESS OTHERWISE NOTED.

NOTES - JUNCTION BOXES

1 INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL SUPPORTED TO STRUCTURE. FASTENED TO SIDES AND BACK OF BOX ONLY. LEAVE TOP AND BOTTOM OF BOX CLEAR FOR BUILDING CONDUIT ENTRY AND WATERTIGHT FLEXIBLE CONDUIT TO RACKS, RESPECTIVELY. IN SOME CASES, SUCH AS AC POWER BOXES, CONDUITS COME INTO THE SIDE OF THE BOX AS WELL.

2 INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL.

3 CUSTOM BOX WITH THREE FULLY ENCLOSED SECTIONS.

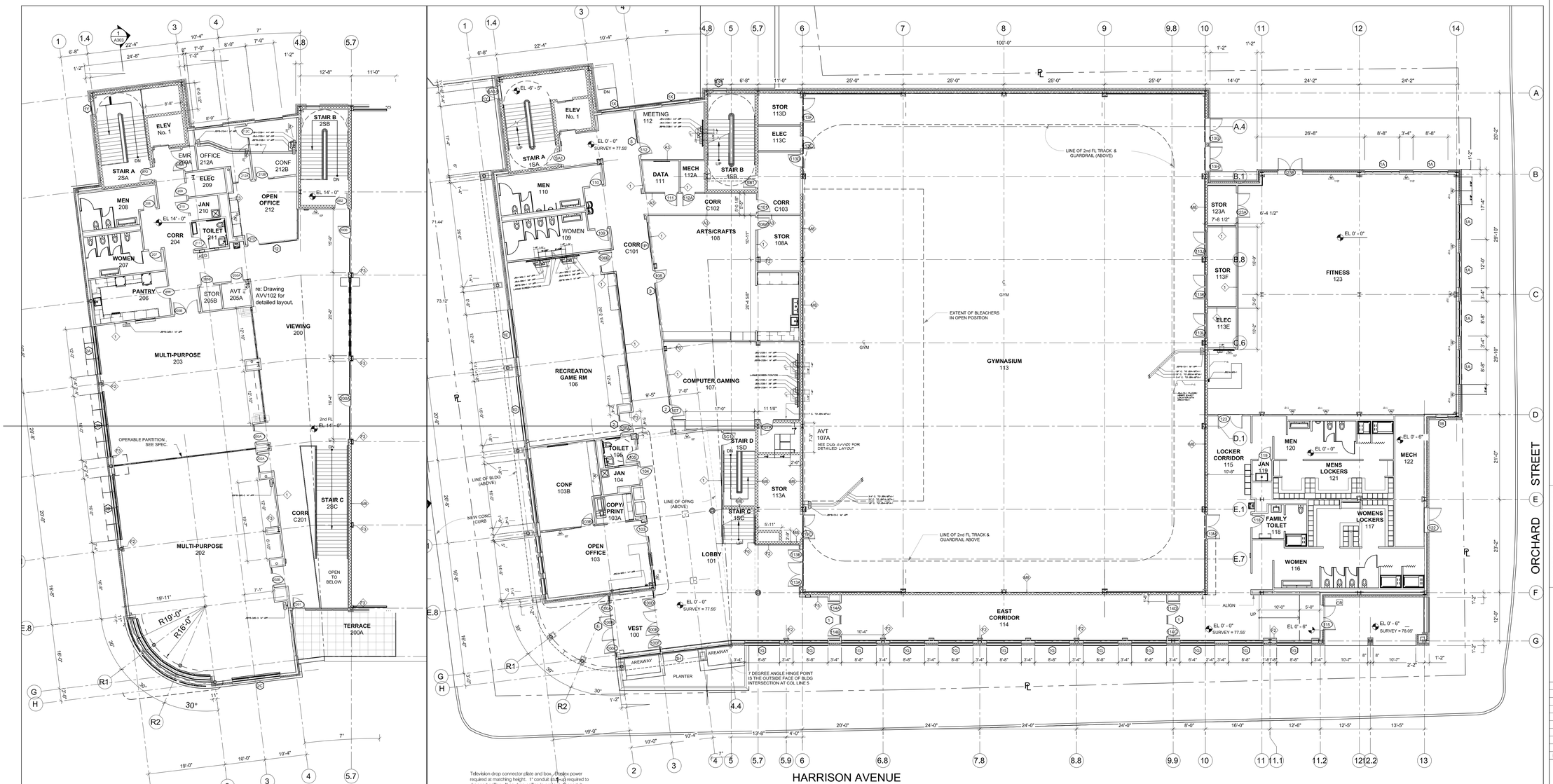
4 SIZE ALL AC POWER CONDUIT SHOWN ON THIS DRAWING ACCORDING TO THE NEC AND THE ELECTRICAL SECIFICATIONS, WITH SPARE CAPACITY IN ADDITION. PROPOSE SIZES FOR REVIEW ON THE SUBMITTAL DRAWINGS.

5 VERIFY WITH ARCHITECT.

6 VERIFY WITH CONSULTANT.

JUNCTION BOX SCHEDULE GENERAL FLOOR PLANS

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBA	2 GANG	3.75"	3.5"	38" VERIFY	FLUSH	RACO	696	-
JBV	4 GANG	3.75"	3.5"	44" VERIFY	FLUSH	RACO	698	-
JBMS	6 GANG	3.75"	3.5"	14" OR 16"	FLUSH	RACO	965	-
JB	2 GANG	3.75"	3.5"	VERIFY	FLUSH	RACO	696	-
JBDA-113-1	FLOOR	-	-	-	FLUSH	RACO	6224	-



02 FLOOR PLAN
LEVEL 02
AV101.00 3/32" = 1'-0"

01 FLOOR PLAN
LEVEL 01
AV101.00 3/32" = 1'-0"

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Professional Seal

No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

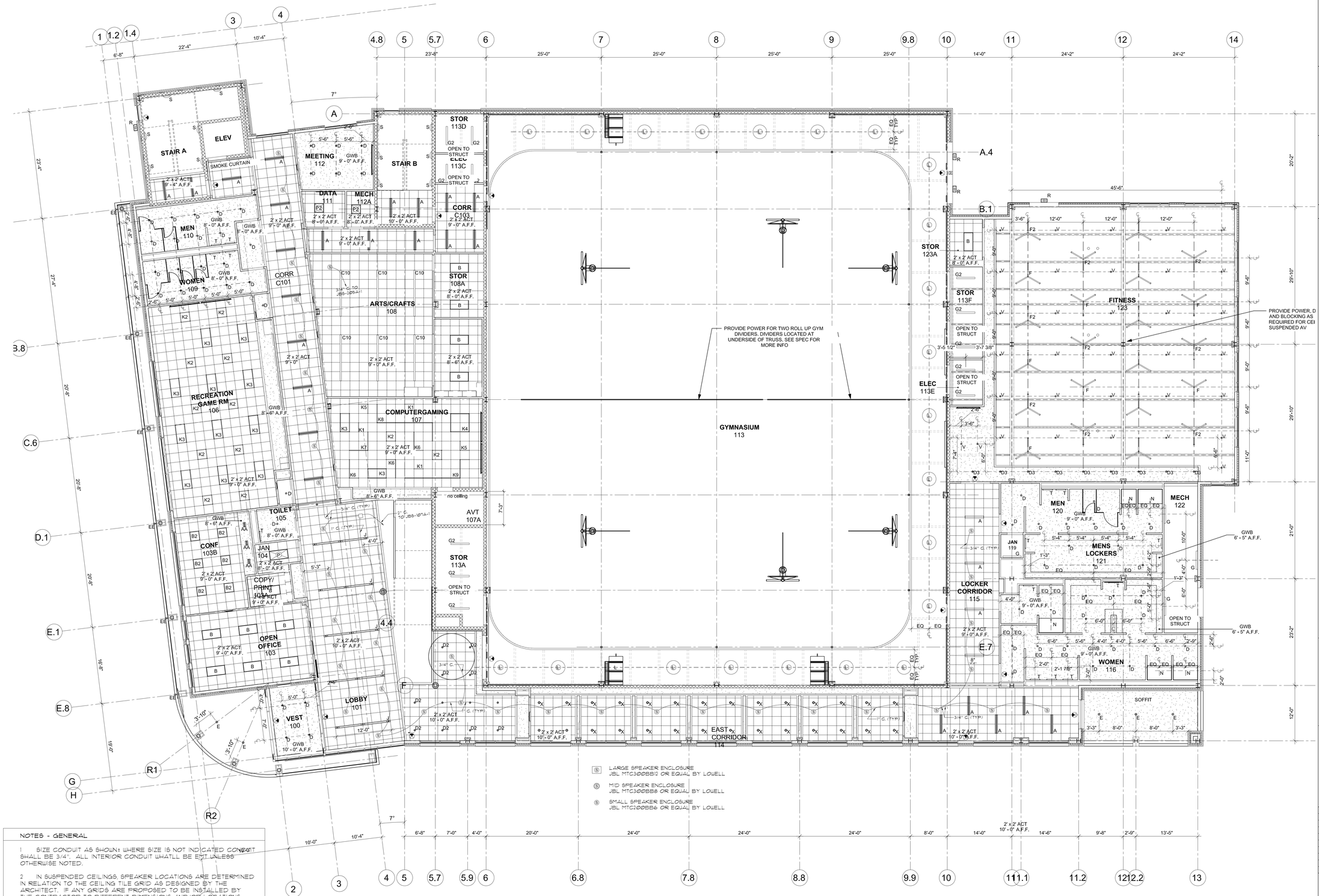
Sheet Title

AVV System Conduit System Floor Plans

Job No.	Date
2020-1005	02/06/24
Scale: AS NOTED	Drawn / Checked: Author Checker

Sheet Number

AVV101



LARGE SPEAKER ENCLOSURE
JBL MTC3600BB12 OR EQUAL BY LOWELL

MID SPEAKER ENCLOSURE
JBL MTC3600BB8 OR EQUAL BY LOWELL

SMALL SPEAKER ENCLOSURE
JBL MTC1600BB6 OR EQUAL BY LOWELL

NOTES - GENERAL

1. SIZE CONDUIT AS SHOWN: WHERE SIZE IS NOT INDICATED CONDUIT SHALL BE 3/4". ALL INTERIOR CONDUIT WHATLL BE EMT UNLESS OTHERWISE NOTED.

2. IN SUSPENDED CEILINGS, SPEAKER LOCATIONS ARE DETERMINED IN RELATION TO THE CEILING TILE GRID AS DESIGNED BY THE ARCHITECT. IF ANY GRIDS ARE PROPOSED TO BE INSTALLED BY THE CONTRACTOR TO DIFFERENT DIMENSIONS AND/OR LOCATIONS, CEILING SPEAKER LOCATIONS MUST BE PROPOSED ON DRAWINGS AND APPROVED BY THE CONSULTANT.

3. ALL HARDWARE IN THE A/V/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.

4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.

5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

01 REFLECTED CEILING PLAN
LEVEL 01
AV103.00 1/8" = 1'-0"

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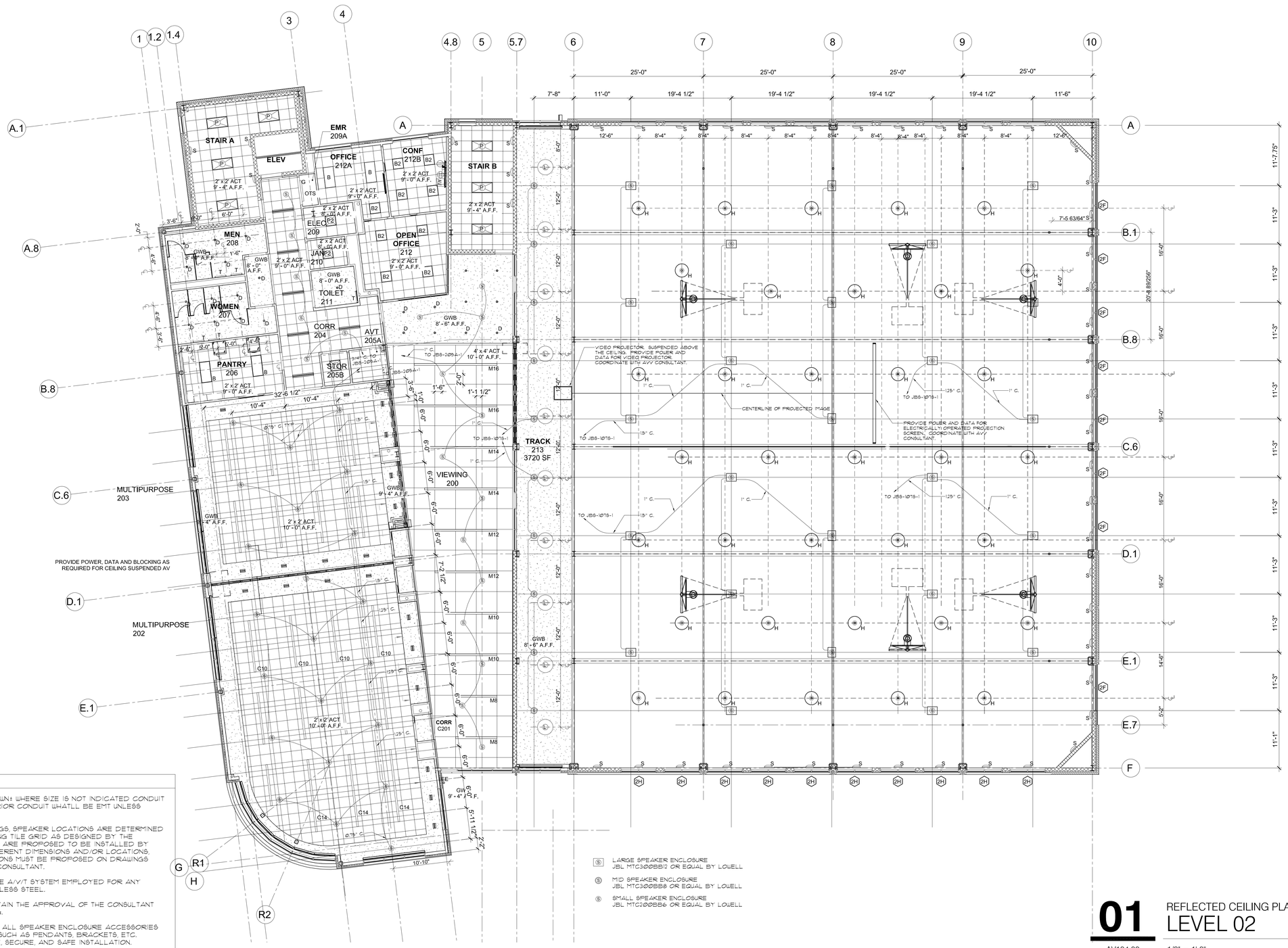
No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

Sheet Title
AVV System Conduit 1st FLOOR RCP

Job No.	Date
2020-1005	02/06/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number
AVV103



NOTES - GENERAL

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2. IN SUSPENDED CEILINGS, SPEAKER LOCATIONS ARE DETERMINED IN RELATION TO THE CEILING TILE GRID AS DESIGNED BY THE ARCHITECT. IF ANY GRIDS ARE PROPOSED TO BE INSTALLED BY THE CONTRACTOR TO DIFFERENT DIMENSIONS AND/OR LOCATIONS, CEILING SPEAKER LOCATIONS MUST BE PROPOSED ON DRAWINGS AND APPROVED BY THE CONSULTANT.

3. ALL HARDWARE IN THE A/V/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.

4. VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.

5. FURNISH AND INSTALL ALL SPEAKER ENCLOSURE ACCESSORIES AND ASSOCIATED PARTS SUCH AS PENDANTS, BRACKETS, ETC. NEEDED FOR A COMPLETE, SECURE, AND SAFE INSTALLATION.

(S) LARGE SPEAKER ENCLOSURE
JBL MTC3005BT2 OR EQUAL BY LOWELL

(S) MID SPEAKER ENCLOSURE
JBL MTC3005BS8 OR EQUAL BY LOWELL

(S) SMALL SPEAKER ENCLOSURE
JBL MTC1005BS6 OR EQUAL BY LOWELL

01 REFLECTED CEILING PLAN
LEVEL 02
AV104.00 1/8" = 1'-0"

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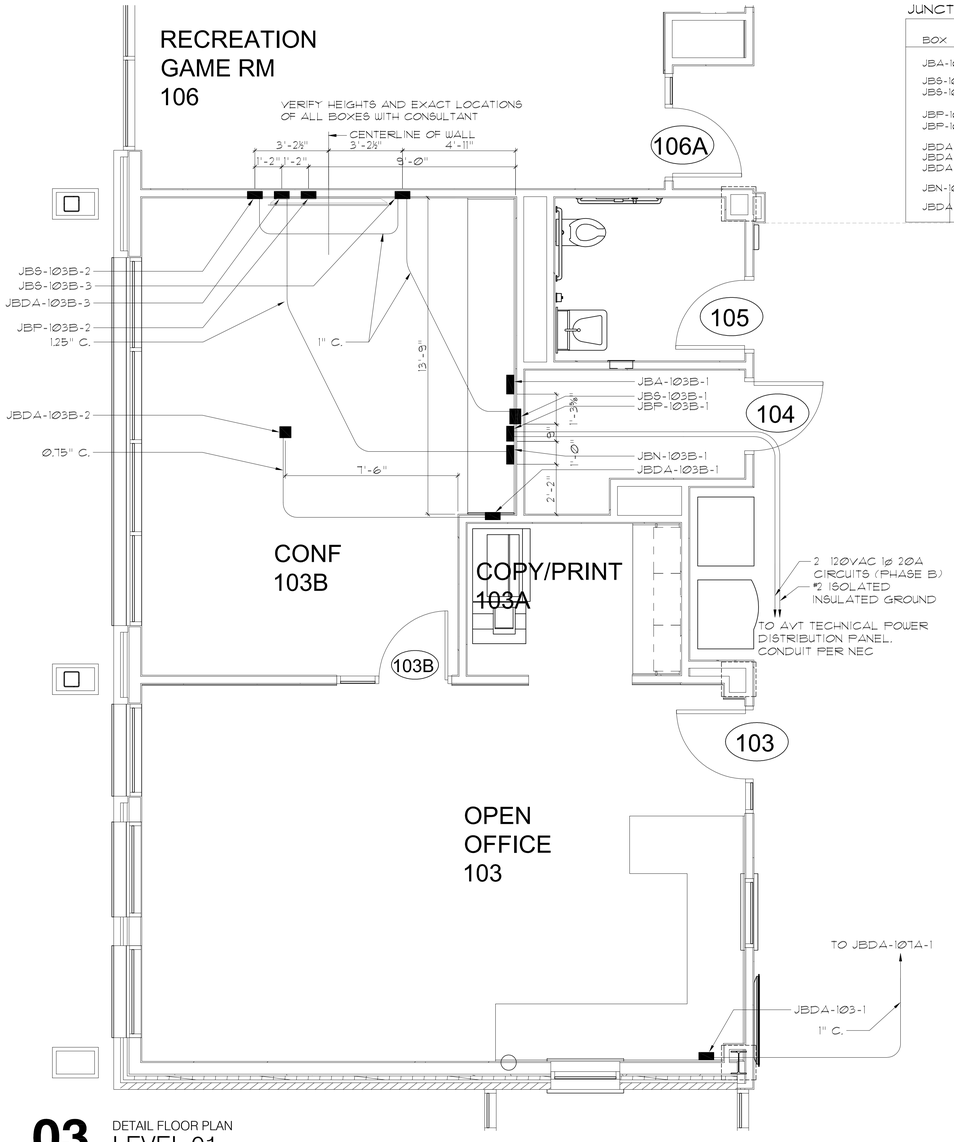
No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

Sheet Title
AVV System Conduit 2nd FLOOR RCP

Job No.	Date
2020-1005	02/06/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number
AVV104

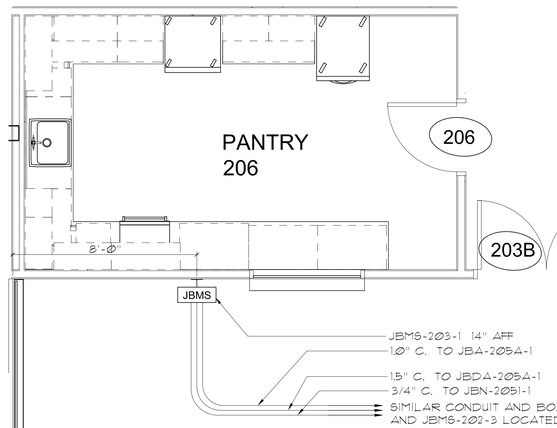


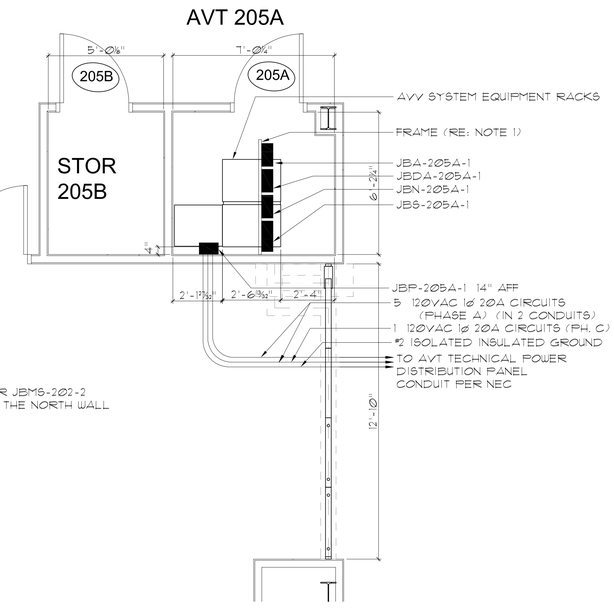
JUNCTION BOX SCHEDULE - CONFERENCE ROOM

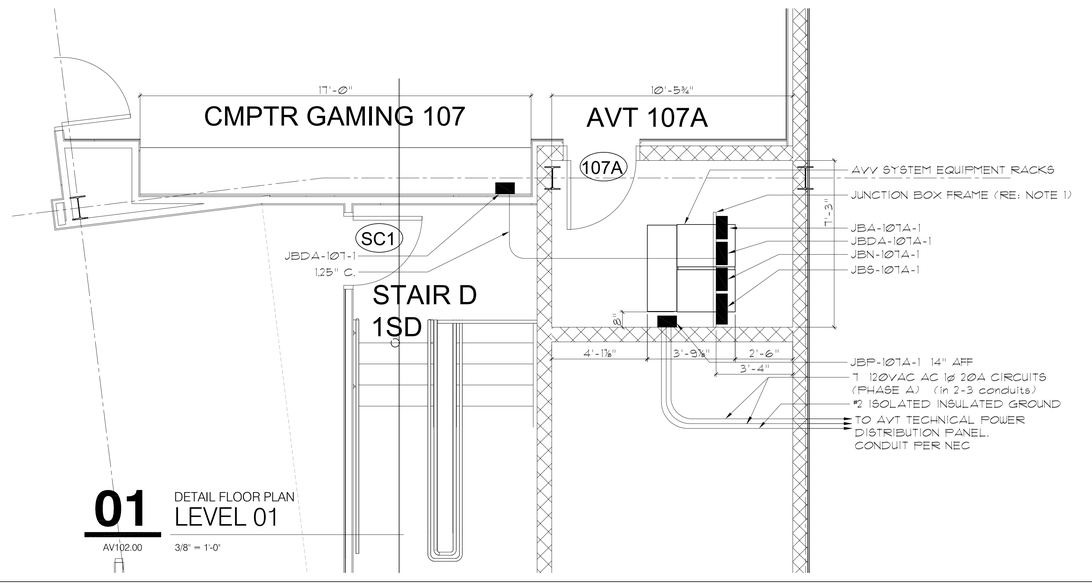
BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBA-1Ø3B-1	1Ø"	1Ø"	4""	14"	SURFACE	HOFFMAN	A-1Ø1Ø6SC	
JBS-1Ø3B-1	8"	1Ø"	6"	14"	SEMI-RECESSED	HOFFMAN	A-1ØØ868C	-
JBS-1Ø3B-2, 3	2 GANG	-	-	7'-Ø"	FLUSH	RACO	696	-
JBP-1Ø3B-1	8"	1Ø"	4"	1Ø"	SEMI-RECESSED	HOFFMAN	A-1ØØ85C	-
JBP-1Ø3B-2	2 GANG	-	-	6'-6"	FLUSH	RACO	696	VERIFY LOCATION
JBDA-1Ø3B-1	8"	1Ø"	6"	14"	SEMI-RECESSED	HOFFMAN	A-1ØØ868C	-
JBDA-1Ø3B-2	2 GANG	-	-	ABOVE CLG	SURFACE	RACO	696	
JBDA-1Ø3B-3	2 GANG	-	-	14"	FLUSH	RACO	696	-
JBN-1Ø3B-1	1Ø"	1Ø"	4"	14"	SURFACE	HOFFMAN	A-1Ø1Ø6SC	-
JBDA-1Ø3-1	3 GANG	-	3.75"-	14"	FLUSH	RACO	697	-

JUNCTION BOX SCHEDULE AV2Ø5A

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBP-2Ø5A-1	1Ø"	1Ø"	6"	14"	SURFACE	HOFFMAN	A-1Ø1Ø6SC	-
JBA-2Ø5A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH
JBDA-2Ø5A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1612G	NOTE 1. DOOR FACES NORTH
JBN-2Ø5A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH
JBS-2Ø5A-1	16"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH







03 DETAIL FLOOR PLAN
LEVEL 01
AV102.00 3/8" = 1'-0"

02 DETAIL FLOOR PLAN
LEVEL 02
AV102.00 3/8" = 1'-0"

01 DETAIL FLOOR PLAN
LEVEL 01
AV102.00 3/8" = 1'-0"

NOTES - GENERAL

1 INSTALL WOOD OR TREX INSULATING BASE UNDER AUDIO/VIDEO/TELEVISION AND NETWORK EQUIPMENT RACKS, EXCEPT FOR THOSE IN MILLWORK SUCH AS CONF 1Ø3B. REFER TO SPECIFICATIONS.

2 IF ANY WALL MOUNTED BACKBOARDS ARE SHOWN, FURNISH BIRCH VENEER HARDWOOD PLYWOOD, FIRE RATED, PRIMED AND PAINTED TWO COATS FLAT GREY ENAMEL PAINT. INSTALL USING STAINLESS STEEL HARDWARE.

3 ALL HARDWARE IN THE A/V/T SYSTEM EMPLOYED FOR ANY PURPOSE SHALL BE STAINLESS STEEL.

4 VERIFY WITH AND OBTAIN THE APPROVAL OF THE CONSULTANT FOR ALL CONDUIT ROUTING.

5 JUNCTION BOX MOUNTING HEIGHTS ARE TO THE BOTOM OF THE BOX, UNLESS OTHERWISE NOTED.

NOTES - JUNCTION BOXES

1 INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL SUPPORTED TO STRUCTURE, FASTENED TO SIDES AND BACK OF BOX ONLY. LEAVE TOP AND BOTTOM OF BOX CLEAR FOR BUILDING CONDUIT ENTRY AND WATERTIGHT FLEXIBLE CONDUIT TO RACKS, RESPECTIVELY. IN SOME CASES, SUCH AS AC POWER BOXES, CONDUITS COME INTO THE SIDE OF THE BOX AS WELL.

2 INSTALL BOX ON FRAME OF UNISTRUT OR KINDORF CONSTRUCTION CHANNEL.

3 CUSTOM BOX WITH THREE FULLY ENCLOSED SECTIONS.

4 SIZE ALL AC POWER CONDUIT SHOWN ON THIS DRAWING ACCORDING TO THE NEC AND THE ELECTRICAL SECIFICATIONS, WITH SPARE CAPACITY IN ADDITION. PROPOSE SIZES FOR REVIEW ON THE SUBMITTAL DRAWINGS.

5 VERIFY WITH ARCHITECT.

6 VERIFY WITH CONSULTANT.

7 SEE AVV 1Ø4 FOR LEGENDS AND NOTES PERTAINING TO TELEVISION DISTRIBUTION SYSTEM

JUNCTION BOX SCHEDULE AVT1Ø7A

BOX	WIDTH, IN.	HEIGHT, IN.	DEPTH, IN.	(BOT AFF) MTG HGT	MTG STYLE	MFR	MODEL	NOTES
JBP-1Ø7A-1	1Ø"	1Ø"	6"	14"	SURFACE	HOFFMAN	A-1Ø1Ø6SC	-
JBA-1Ø7A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH
JBDA-1Ø7A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1612G	NOTE 1. DOOR FACES NORTH
JBN-1Ø7A-1	12"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH
JBS-1Ø7A-1	16"	16"	6"	7'-8"	FRAME	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES NORTH
JBDA-1Ø7-1	16"	1Ø"	6"	14"	SURFACE IN CABINET	HOFFMAN	C-5D1616G	NOTE 1. DOOR FACES WEST

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528

KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P:914.666.5900 KGDARCHITECTS.COM

CONSTRUCTION DOCUMENTS

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Professional Seal

No.	Date	Issue
2	06/05/2024	Issued for Bid
1	02/14/2024	Progress

Sheet Title
AVT System Conduit System Plan Details

Job No.	Date
2020-1005	02/06/24
Scale	Drawn / Checked
AS NOTED	Author Checker

Sheet Number
AVV102