REBID - Change in Scope

Means of Egress
Missouri School for the Blind
Saint Louis, Missouri

patterhn ives llc

130 south bemiston ave
suite 800
st louis missouri 63105

OWNER: STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

DEPARTMENT OF
ELEMENTARY AND SECONDARY
EDUCATION

PROJECT MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

01 AERIAL LOCATION MAP
MISSOURI SCHOOL FOR THE BLIND - 3815 MAGNOLIA AVENUE, SAINT LOUIS MISSOURI

NORTH

DESIGNER: PATTERHN IVES, LLC

PROJECT NUMBER: E2332-01

ASSET NUMBER: 5012011017

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SHEET NUMBER:
G-001

29 JUNE 2026

STANDARDS AND REGULATIONS

1. CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
2. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR CONSTRUCTION AND OCCUPANCY. CONTRACTOR SHALL FURNISH COPIES OF ALL SUCH ITEMS TO OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR IF PERMITS ARE DELAYED FOR ANY REASON, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY.
3. CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF INSPECTIONS.
4. IF APPLICABLE, CONTRACTOR SHALL FILE NOTICE OF INTENT WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA).
5. CONTRACTOR SHALL COORDINATE WORK WITH ALL APPLICABLE UTILITY PROVIDERS.
6. CONTRACTOR SHALL BE FAMILIAR WITH ALL DOCUMENTS AND WORK AND SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS & STANDARDS.
7. IF UNANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED, CONTRACTOR SHALL CEASE WORK IN THE AREA AND CONTACT ARCHITECT IMMEDIATELY.
8. SMOKING IS NOT PERMITTED IN ANY INTERIOR SPACES WITHIN THE PROJECT AREA OR BUILDING.

ADMINISTRATION OF THE WORK

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.
2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
3. CONTRACTOR SHALL BE FULLY ACQUAINTED WITH ALL DOCUMENTS AND CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
4. CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT EXISTING SYSTEMS AND FINISHES WHICH ARE TO REMAIN. ANY DAMAGES TO SUCH CONDITIONS, SYSTEMS, AND FINISHES SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT. IF SATISFACTORY REPAIRS CANNOT BE MADE, CONTRACTOR SHALL REPLACE CONDITIONS, SYSTEMS, AND FINISHES WITH LIKE NEW QUALITY CONSTRUCTION ACCEPTABLE TO THE ARCHITECT. ALL REPAIRS AND REPLACEMENT COSTS SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
5. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER (AND BUILDING OWNER, IF APPLICABLE) FOR DETAILS RELATED TO REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVEL, USE OF STAIRS AND ELEVATORS, REMOVAL OF WINDOWS, LOCATION OF CHUTES AND DUMPSTERS, ETC., PRIOR TO REMOVAL OF DEBRIS. CONTRACTOR SHALL CLEAN AND REPAIR ANY DAMAGES TO EXISTING SYSTEMS SOILED OR DAMAGED BY DEBRIS REMOVAL PROCESS. IF CLEANING AND REPAIR DOES NOT RETURN SYSTEM(S) TO ORIGINAL CONDITION, CONTRACTOR SHALL INSTALL NEW SYSTEM(S).
6. CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S (OR BUILDING OWNER'S) PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
7. WITH AN EXISTING BUILDING, CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S (OR BUILDING OWNER'S) PROCEDURES FOR DISABLING AND REACTIVATING EXISTING BUILDING SYSTEMS.
8. EACH INSTALLER SHALL EXAMINE SUBSTRATE CONDITIONS AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
9. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON SITE AT ALL TIMES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
11. ALL FIRE SAFETY SYSTEMS (i.e., AUTOMATIC SPRINKLERS, FIRE ALARM, EMERGENCY POWER & LIGHTING, SMOKE CONTROL, FIRE DAMPERS, LABEL DOORS, ETC.) SHALL REMAIN IN OPERATION TO THE MAXIMUM EXTENT POSSIBLE. IF SYSTEMS ARE TAKEN OUT OF OPERATION DURING CONSTRUCTION WORKING HOURS, THE SYSTEMS SHALL BE PLACED BACK INTO SERVICE DURING NON-CONSTRUCTION HOURS. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
12. CONTRACTOR SHALL NOT CLOSE UP CEILING UNTIL ARCHITECT HAS AN OPPORTUNITY TO REVIEW ALL WORK WHICH WILL BE CONCEALED BY CEILING. CONTRACTOR SHALL NOTIFY ARCHITECT AT LEAST TWO WEEKS PRIOR TO CLOSE-UP.
13. CONTRACTOR SHALL LAY OUT WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
14. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY ACCESS PANEL, CLEAN-OUT ACCESS OR OTHER ACCESS POINT NOT ELEVATED OR DIMENSIONALLY LOCATED IN THE DOCUMENT SET FOR FINAL COORDINATION.
15. CONTRACTOR SHALL COOPERATE WITH THE OWNER'S COMMUNICATION WIRING INSTALLER'S NEED TO INSTALL WIRING IN CONCEALED LOCATIONS SUCH AS WALLS OR CEILING PLENUMS. COOPERATION SHALL INCLUDE NOTIFICATION OF SCHEDULE FOR CLOSE-UP IN ORDER TO PROVIDE INSTALLER SUFFICIENT TIME TO COMPLETE INSTALLATION.

USE OF CONSTRUCTION DOCUMENTS

1. CONTRACTOR SHALL NOT SCALE DRAWINGS; ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
2. INFORMATION REGARDING EXISTING SITE CONDITIONS INDICATED IN THESE DOCUMENTS IS BASED UPON INFORMATION FURNISHED TO THE ARCHITECT BY THE OWNER AND/OR PERCEIVED CONDITIONS IN THE FIELD. THE INFORMATION IS NOT INTENDED TO GUARANTEE EXACT CONDITIONS BEFORE WORK IS STARTED. NOTIFY THE ARCHITECT IF ANY DISCREPANCIES ARE FOUND.
3. THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
4. DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS OR PORTIONS OF DRAWINGS USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR.
5. ROOM NAMES AND NUMBERS ARE FOR CONSTRUCTION PURPOSES ONLY.

DEFINITIONS

1. "TYPICAL" OR "TYP" INDICATES IDENTICAL COMPLETE SYSTEM SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION NOTED.
2. "SIMILAR" INDICATES COMPLETE SYSTEM AND COMPONENTS SHALL BE PROVIDED COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
3. "AS REQUIRED" INDICATES COMPONENTS REQUIRED TO COMPLETE THE NOTED, SYSTEM AS INDICATED IN THE PROJECT DOCUMENTS, SHALL BE PROVIDED.
4. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS; AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
5. "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
6. "MAXIMUM" OR "MAX." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
7. "MINIMUM" OR "MIN." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
8. "HOLD" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT, AND IN SOME CASES IT MAY REQUIRE EXCEEDING TOLERANCES DEFINED IN SPECIFICATIONS.

DIMENSIONS

1. DIMENSIONS ARE AS FOLLOWS UNLESS OTHERWISE NOTED.
   A. TO FINISHED FACE OF PARTITION OR EXTERIOR WALL.
   B. TO CENTERLINE OF COLUMNS AND STRUCTURAL GRID.
   C. TO TOP OF STRUCTURAL FLOOR.
   D. TO BOTTOM (INTERIOR FACE) OF FINISHED CEILING.
2. DIMENSIONS INDICATED AS 'FO CMU' ARE FROM FACE OF CMU TO WORKPOINT (WP); 'FO WD' ARE FROM FACE OF WOOD FINISH TO WORKPOINT (WP).
3. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB. THE PRIORITY FOR PROJECT DIMENSIONS SHALL BE IN THE FOLLOWING ORDER:
   A. MINIMUM DIMENSION FOR ACCESSIBILITY CLEARANCE & BUILDING CODE REQUIREMENT.
   B. LARGE SCALE DETAILS
   C. SMALL SCALE DETAILS
   D. ENLARGED VIEWS
   E. FLOOR PLANS & ELEVATIONS
4. FLOOR ELEVATIONS ARE INDICATED TO FINISH FLOOR SURFACE UNLESS OTHERWISE NOTED.
5. VERTICAL DIMENSIONS ARE INDICATED FROM THE FLOOR ELEVATION TO FACE OF FINISHED MATERIAL AT THE DIMEN POINT, UNLESS NOTED ABOVE FINISH FLOOR - "AFF".
6. CEILING HEIGHTS ARE INDICATED FROM THE FLOOR ELEVATION TO THE FACE OF SUSPENDED CEILING SYSTEM OR FACE OF FINISH MATERIAL AS SCHEDULED.
7. DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZE, CLEARANCE, AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.

DRAWING SET ORGANIZATION

1. EACH DRAWING SET SHEET IS IDENTIFIED BY THE SHEET NUMBER IN THE LOWER RIGHT HAND CORNER OF THE DRAWING TITLE BLOCK. THE SHEET TITLE PROVIDES A GENERAL DESCRIPTION OF THE CONTENTS OF THE SHEET.
   SHEET NUMBER EXAMPLE: A201
   "A" INDICATES THE DISCIPLINE THAT CREATED THE DRAWING
   "2" INDICATES THE DRAWING CATEGORY CONTAINED ON THE SHEET
   "01" INDICATES THE SHEET NUMBER
2. SHEET NUMBERS MAY INCLUDE SUPPLEMENTAL CHARACTERS TO PROVIDE ADDITIONAL INFORMATION, SUCH AS DRAWING CONTENT, PROJECT SECTOR OR PHASE. REFER TO THE DRAWING INDEX FOR A COMPLETE LIST OF SHEETS INCLUDED IN THE DOCUMENT SET.

   EXAMPLE: EL201A

   "EL" INDICATES THE DISCIPLINE THAT CREATED THE DRAWING AND THE DRAWING CONTENT = ELECTRICAL LIGHTING

   "A" INDICATES SECTOR "A" OF PLAN SHEET "201". REFER TO THE PROJECT KEY PLAN OR COMPOSITE PLAN INDICATING THE RELATIONSHIP OF THE SECTORS.
3. DRAWING SET INDEX INDICATES THE COMPLETE LIST OF SHEETS CONTAINED IN THE DRAWING SET., INDEXED BY DISCIPLINE, SHEET NUMBER AND SHEET TITLE, IN SEQUENTIAL ORDER. NOTE THAT ALL SEQUENTIAL SHEET NUMBERS MAY BE NOT USED IN THE DRAWING SET.
4. EXAMPLE DISCIPLINE IDENTIFICATION, IN ORDER BOUND IN THE DRAWING SET. REFER TO THE DRAWING SET INDEX FOR DISCIPLINE CONTAINED IN THIS DRAWING SET:

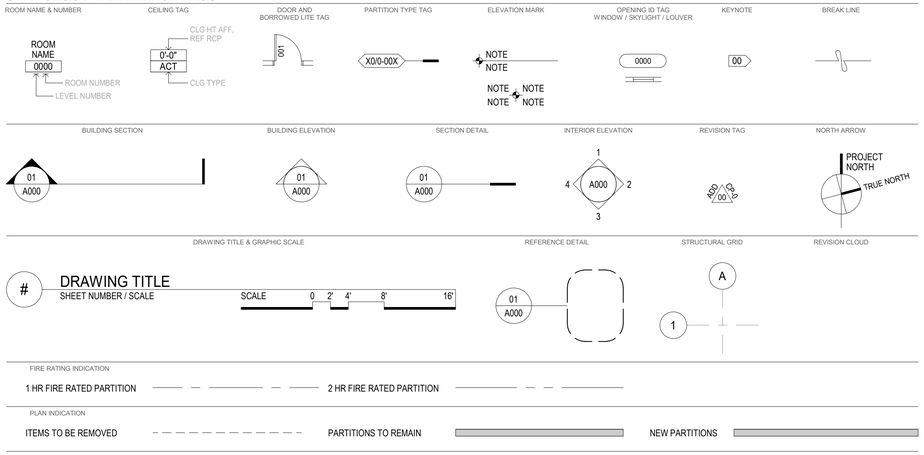
G	GENERAL INFORMATION
L	LANDSCAPE
C	CIVIL
S	STRUCTURAL
D	SELECTIVE DEMOLITION
A	ARCHITECTURAL
I	INTERIORS/FFE
AC	ACOUSTIC
M	MECHANICAL
E	ELECTRICAL
P	PLUMBING
T	TELECOMMUNICATIONS
EA	AUDIO-VISUAL SYSTEMS
K	KITCHEN EQUIPMENT / FOOD SERVICE
EL	LIGHTING

OTHER DISCIPLINES

1. CONTRACTOR SHALL REVIEW ALL OTHER DOCUMENT DISCIPLINES FOR ADDITIONAL INFORMATION AND DISCIPLINE-SPECIFIC GENERAL NOTES, ABBREVIATIONS AND SYMBOLOGY. CONTRACTOR TO NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL DISCIPLINES AND BUILDING TRADES IN ORDER TO ENSURE THAT THE WORK DESIGNATED IS COMPLETED ON SCHEDULE AND IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING AS REQUIRED FOR THE SCHEDULED WORK.

1 GENERAL NOTES

SYMBOLOGY - REFERENCE TAGS



2 SYMBOL LEGEND

A

AB	ANCHOR BOLT
AC	ACCESS CONTROL
AL	ACTIVE LEAF
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL (ARCHITECT)
AS	AUTOMATED SHADE
ASF	ALUMINUM STOREFRONT FRAMING

B

BD	BOARD
BKHD	BULKHEAD
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BO	BOTTOM OF
BOS	BOTTOM OF STEEL
BOD	BASIS OF DESIGN
BOL	BOLLARD
BOT	BOTTOM
BRG	BEARING
BRD	BOARD
BTWN (B/W)	BETWEEN
BUR	BUILT UP ROOFING
BW	BOTH WAYS
BYND	BEYOND

C

CAM	CAMERA (SECURITY)
C/F	COOLER/FREEZER
CIP	CAST IN PLACE
CIRC	CIRCULATION
CJ	CONTROL JOINT
CFMF	COLD FORMED METAL FRAMING
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CLT	CROSS-LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
CNSK	COUNTERSINK (COUNTERSUNK)
COL	COLUMN
CON / CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CPT	CARPET
CR	CARD READER
CW	CURTAIN WALL

D

DEG	DEGREE
DEMO	DEMOLISH / DEMOLITION / REMOVE
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DNSPT (DS)	DOWNSPOUT
DPS	DOOR POSITION SWITCH
DR	DOOR
DRP	DOOR PROTECTION
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING

E

E	EAST
EA	EACH
EGO	EGRESS ONLY
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EO	EDGE OF
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EX	EXIT SIGN
EXH	EXHAUST
EXP	EXPANSION
EXPS	EXPOSED STRUCTURE
EXIST (E)	EXISTING
EXT	EXTERIOR

F

FA	FIRE ALARM
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDS	FLOOR DRAIN WITH STRAINER
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FFE	FURNITURE, FIXTURES & EQUIPMENT
FHC	FIRE HOSE CABINET / CONNECTION
FIN	FINISH
FIXT	FIXTURE
FJ	FORM JOINT
FL	FLOW LINE
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FO	FACE OF
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOG	FACE OF GLAZING
FOM	FACE OF MULLION
FOS	FACE OF SLAB
FOW	FACE OF WALL
FP	FIRE PROTECTION
FR	FRAME
FRGD	FOREGROUND
FRT	FIRE RETARDANT TREATED
FS	FLOOR SINK
FSTNR	FASTENER
FT	FOOT OR FEET
FTG	FOOTING
FURR	FURRING

G

GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL / GLAZ	GLASS / GLAZING
GR	GRID
GRD	GRADE
GYP / GYPBD	GYPSUM / GYPSUM BOARD

H

HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAVY DUTY
HDWD	HARDWOOD
HDW	HARDWARE
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HSFD	HIGH SPEED FABRIC DOOR
HT	HEIGHT
HVAC	HEATING VENTILATION & AIR CONDITIONING

I

IC	INTERCOM
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
ISD	INSULATED SLIDING DOOR

J

JAN	JANITOR
JB	JUNCTION BOX
JT	JOINT
JST	JOIST

K

KFKI	KEC FURNISHED, KEC INSTALLED
KEC	KITCHEN EQUIPMENT CONTRACTOR
K/FS	KITCHEN/FOOD SERVICE

L

LA	LAYER
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FEET
LS	LIGHT SWITCH
LT	LIGHT
LT WT	LIGHT WEIGHT
LV	LOW VOLTAGE
LVL	LEVEL
LVR	LOUVER

M

MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MINL	MINERAL
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	MANUAL SHADE
MSD	MOTORIZED SLIDING DOOR
MTD	MOUNTED
MTL	METAL
MUL	MULLION

N

N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFN	OVERFLOW NOZZLE
OH	OPPOSITE HAND
OVHD	OVERHEAD
OPG	OPENING
OPT	OPTION
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORN	ORNAMENTAL
OS	OCCUPANCY SENSOR

P

PA	POWER ASSIST
PCT	PRE-CAST CONCRETE
PDA/V	POWER, DATA, & A/V
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLMB	PLUMBING
PLT	PLATE
PLYWD	PLYWOOD
POL	POLISHED
PR	PAIR
PRFM	PERFORMANCE
PT	PAINT
PTD	PAINTED
PTN	PARTITION
PTYPE	PARTITION TYPE
PWR	POWER
PWR-D	POWER DROP CORD

Q

QTY	QUANTITY

R

R	RISER
RA	RETURN AIR
RB	RESILIENT BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RDO	ROOF DRAIN OUTLET
REC	RECOMMENDATION
REF	REFER TO / REFERENCE
RES	RESILIENT FLOOR(ING)
REINF	REINFORCED
REQ	REQUIREMENT(S)
REQD	REQUIRED
RFG	REFRIGERATOR
RH	ROOF HATCH
RL	POWER CORD REEL
RM	ROOM
RO	ROUGH OPENING

S

S	SOUTH
SA	SUPPLY AIR
SC	SOLID CORE
SCHED	SCHEDULE
SD	SMOKE DETECTOR
SE	SLAB EDGE
SECT	SECTION
SF	SQUARE FOOT
SH	SHADE
SHEATH	SHEATHING
SHT	SHEET
SIM	SIMILAR
SLNT	SEALANT
SOG	SLAB ON GRADE
SP	SPRINKLER
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
STAG	STAGGERED
STD	STANDARD
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SMOKE VENT
SW	SIDEWALL
SYS	SYSTEM

T

T & B	TOP AND BOTTOM
TD	TROUGH DRAIN (K/FS)
TEL	TELEPHONE
TEMP	TEMPORARY
TG	TONGUE & GROOVE
THK	THICK
TL	TILE
TLT	TOILET (ROOM)
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPO	ROOFING (REF SPEC)
TR	TREAD
TS	TERMINATED STOP
TYP	TYPICAL

U

UON	UNLESS OTHERWISE NOTED
U/C	UNDERCOUNTER
U/G	UNDERGROUND
U/S	UNDERSIDE (ROOF ASSEMBLIES)

V

VERT	VERTICAL
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF

W

W	WEST
W/	WITH
WAP	WIRELESS ACCESS POINT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WATER HEATER
W/O	WITHOUT
WP	WORKPOINT
WPM	WATERPROOFING MEMBRANE SYSTEM
WT	WINDOW TREATMENT

SYMBOLS

℄	CENTERLINE
PL	PLATE

3 ABBREVIATIONS

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ARCHITECT
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PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

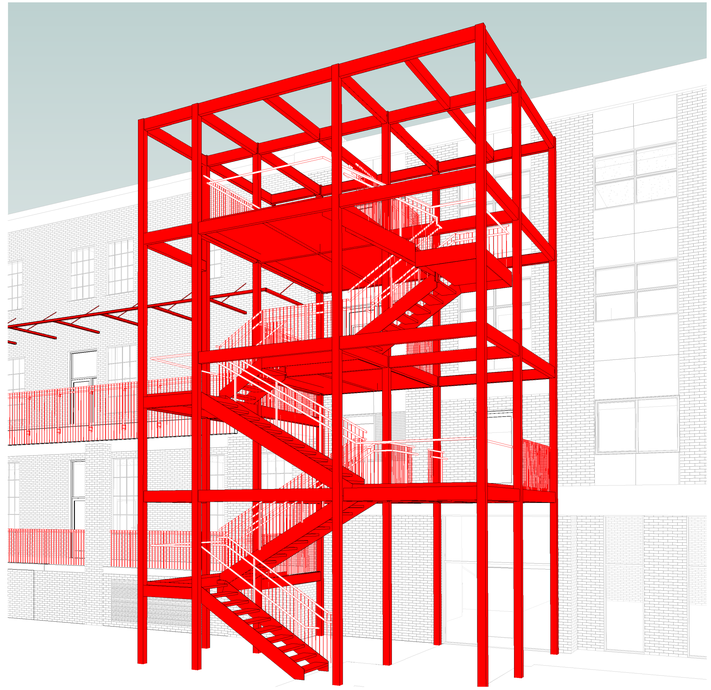
SHEET TITLE:
GENERAL NOTES/ ABBREVIATIONS/ SYMBOLOGY

SHEET NUMBER:
G-002

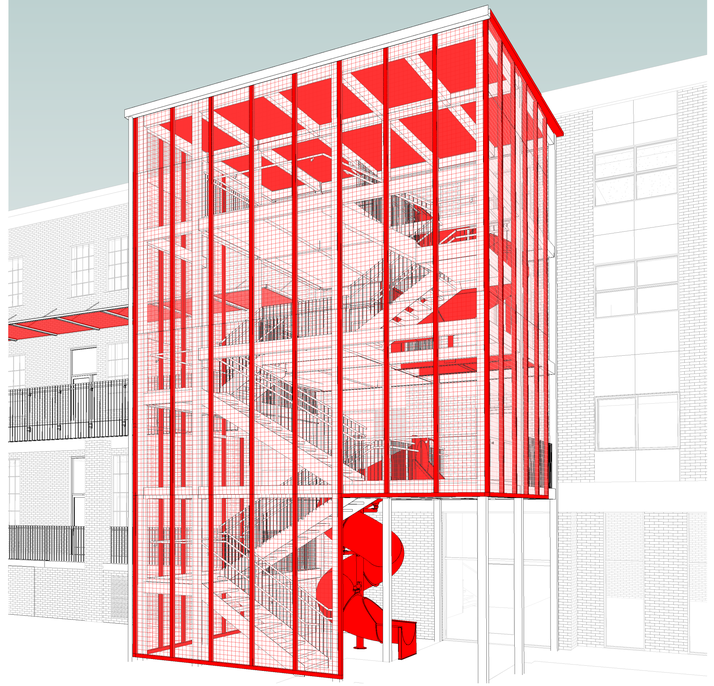
6 PHOTO OF EXISTING BUILDING
G-003 1/2" = 1'-0"

1 DEMOLITION
G-003

2 NEW DOORS
G-003



3 STAIRS / STRUCTURE / RAILINGS
G-003



4 SCREEN / CANOPY / SLIDES
G-003

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
ANNA BJE IVES
NUMBER A-2010013638
ARCHITECT
29 June 2026

PROFESSIONAL SEAL

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

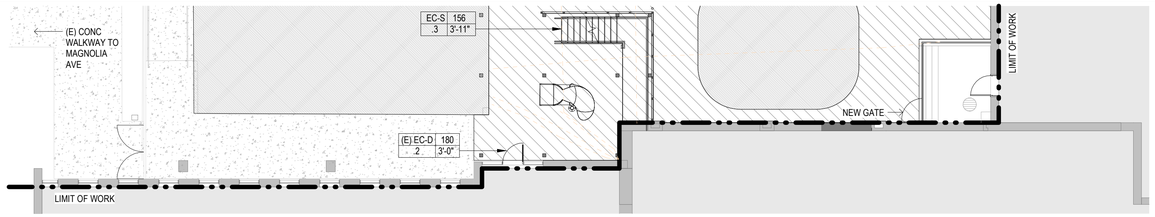
PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
3D VIEW DIAGRAMS

SHEET NUMBER:
G-003



1 LEVEL S1 (PLAYGROUND) - LIFE SAFETY
G-004 3/32" = 1'-0"

LIFE SAFETY LEGEND

EC-D 180 .2 3'-0" — EXIT COMPONENT - STAIR / DOOR; EXIT CAPACITY; EXIT WIDTH; EXIT COMPONENT FACTOR

EXISTING INTERIOR AREA, NOT IN CONTRACT

NEW OCCUPIABLE ROOF (LESS THAN 50 OCC)

NEW 1 HR RATED BARRIER

CODE COMPLIANCE

PROJECT INFORMATION:

OWNER: STATE OF MISSOURI, OFFICE OF ADMINISTRATION
PROJECT: MISSOURI SCHOOL FOR THE BLIND - EGRESS STAIR
PROJECT MANAGER: SANDRA WALTHER, DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
PROJECT TYPE: ADDITION (PER IEBC AND IBC SECTIONS LISTED BELOW, BUILDING AREA DOES NOT NEED TO BE REEVALUATED FOR COMPLIANCE WITH ALLOWABLE AREA LIMITS).

APPLICABLE ADOPTED BUILDING CODES AND STANDARDS:

INTERNATIONAL BUILDING CODE - 2024 (IBC)
INTERNATIONAL EXISTING BUILDING CODE - 2024 (IEBC)
INTERNATIONAL PLUMBING CODE - 2024
INTERNATIONAL MECHANICAL CODE - 2024
INTERNATIONAL FIRE CODE - 2024
NATIONAL ELECTRIC CODE - 2023
INTERNATIONAL ENERGY CONSERVATION CODE - 2024
AMERICANS WITH DISABILITIES ACT - STANDARDS FOR ACCESSIBLE DESIGN 2010
NFPA 101 LIFE SAFETY CODE

SITE & BUILDING INFORMATION:

ADDRESS: MISSOURI SCHOOL FOR THE BLIND
3815 MAGNOLIA AVE
ST.LOUIS, MISSOURI 63110
SITE ELEVATION: 520'
CLIMATE ZONE: ASHRAE ZONE 4A
SEISMIC: SITE CLASS C / SEISMIC DESIGN CATEGORY C / IMPORTANCE FACTOR 1.25
AUTHORITY HAVING JURISDICTION: STATE OF MISSOURI / CITY OF ST.LOUIS

EXISTING BUILDING:
EXISTING CONSTRUCTION TYPE: IIIB
EXISTING BUILDING HEIGHT: 3-4 STORIES ABOVE GRADE
AUTOMATIC SPRINKLER SYSTEM THROUGHOUT EXISTING BUILDING

OCCUPANCY AND USE:
USE GROUP(S): EXISTING TO REMAIN (NEW STAIR)
MINIMUM NUMBER OF EXITS: 2 PER STORY (1-500 OCCUPANTS PER STORY) - AS INDICATED ON LIFE SAFETY PLANS, TWO STAIR EXITS CURRENTLY EXIST ON EACH LEVEL. EXISTING BUILDING EGRESS IS CODE-COMPLIANT.
EXIT ACCESS TRAVEL DISTANCE: 250 FT (OCCUPANCY E - WITH SPRINKLER SYSTEM)
OVERALL BUILDING AREA: EXISTING TO REMAIN. NOT INCREASING, PER IEBC 1102.2 AND IBC 503.1.4.
CHANGE IN USE / OCCUPANCY: NO

FUNCTION OF SPACE: EXISTING TO REMAIN
OCCUPANT LOAD FACTOR: EXISTING (OVERALL BUILDING AREA NOT INCREASING, PER IEBC 1102.2 AND IBC 503.1.4)

HEIGHT & AREA LIMITATIONS:
CONSTRUCTION TYPE: TYPE IIIB (REF APPLICABLE PROVISIONS)
ALLOWABLE BUILDING AREA: DOES NOT NEED TO BE REEVALUATED, PER IEBC 1102.2 AND IBC 503.1.4

BUILDING ELEMENT	FIRE-RESISTANCE RATING (IN HOURS) TYPE IIIB
STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	2
INTERIOR	0
NONBEARING WALLS	
EXTERIOR	BASED ON FIRE-SEPARATION DISTANCE
INTERIOR	0
FLOOR CONSTRUCTION (AND ASSOCIATED SECONDARY MEMBERS)	0
ROOF CONSTRUCTION (AND ASSOCIATED SECONDARY MEMBERS)	0

APPLICABLE PROVISIONS - NFPA:

NFPA 13 Automatic Sprinklers. *Section 9.2.3.1 permits the space below the new canopy at the new Terrace to remain unsprinklered. Because the fabric canopy is noncombustible and does not create a solid "roof" condition as described in NFPA 13 Section 9.2.3.1, sprinkler protection would not be required beneath it. The key factors are that the material is noncombustible, the installation is open/permeable enough to prevent heat accumulation, and no combustibles will be stored below.*

NFPA 10 Portable Fire Extinguishers. Section 906.1 - Portable fire extinguishers are required to be provided throughout all newly constructed buildings (or portions there of) containing Group A, E, B, and S occupancies (906.1). The maximum travel distance to an extinguisher may not exceed 75 feet.

APPLICABLE PROVISIONS - 2024 IEBC:

CHAPTER 11: ADDITIONS
IEBC 1101.7 Occupiable Roofs. Where a new occupiable roof is added to a building or structure, the occupiable roof shall comply with provisions of the IBC.

IEBC 1102.2 Area Limitations. An addition shall not increase the area of an existing building beyond that permitted under the applicable provisions of Chapter 5 of the IBC for new buildings unless the fire separation as required by the IBC is provided.
Exception:Nonoccupiable appendages such as elevator and exist stairway shafts shall be permitted beyond that permitted by the IBC.

APPLICABLE PROVISIONS - 2024 IBC:

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
IBC 503.1.4 Occupiable Roofs. A roof level or portion thereof shall not be used as an occupiable roof unless the occupancy of the roof is an occupancy that is permitted by Table 504.4 for the story immediately below the roof. The area of the occupiable roofs shall not be included in the building area as regulated by Section 506. An occupiable roof shall not be included in the building height or number of stories as regulated by Section 504.

CHAPTER 9: FIRE PROTECTION AND LIFE SAFETY SYSTEMS
IBC 907.4.2.1 Location. Manual fire alarm boxes shall be located not more than 5 feet from the entrance to each exit.

The existing building is equipped with an emergency voice / alarm communication system (EVAC). The main fire alarm control panel is located in the basement of the building. The building is also equipped with manual pull stations located at the entrance to each exit. These conditions will be maintained.

CHAPTER 10: MEANS OF EGRESS
IBC 1005.3 In buildings equipped with an emergency voice alarm communication system, the capacity of stairs is permitted to be calculated using a factor of 0.20 inches per occupant, while the capacity of doors, corridors, and other horizontal elements are calculated using a factor of 0.15 inches per occupant.

IBC 1009.3.2 Stairway Width, Exception 1. The clear width of 48 inches is not required at accessible means of egress stairways in buildings protected throughout by an automatic sprinkler system.

IBC 1009.3.3 Area of Refuge, Exception 2. An area of refuge adjacent to the stairway is not required in buildings protected throughout by an automatic sprinkler system.

IBC 1010.1.1 Size of Doors. The minimum clear opening height of doors shall be not less than 80 inches.

Due to existing conditions, Door 201 will have an opening height of 6'-7". Variance approved by AHJ on 02 February 2026.

IBC 1011.5.2 Riser Height and Tread Depth. Stair riser heights shall be 7 inches maximum and 4 inches minimum. The riser height shall be measured vertically between the nosings of adjacent treads or between the stairway landing and the adjacent tread. Rectangular tread depths shall be 11 inches minimum measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's nosing.

IBC 1011.5.4 Dimensional Uniformity. Stair treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8 inch in any flight of stairs.

IBC 1011.5.5.1 Nosing Projection Size. The nosings shall project not more than 1-1/4 inches beyond the tread below.

IBC 1011.5.5.3 Solid Risers. Risers shall be solid.

IBC 1011.6 Stairway landings. There shall be a floor or landing at the top and bottom of each stairway. The width of landings, measured perpendicularly to the direction of travel shall not be less than the width of stairways served.

IBC 1011.7.2 Outdoor Conditions. Outdoor stairways and outdoor approaches to stairways shall be designed so that water will not accumulate on walking surfaces.

IBC 1011.11 Handrails. Flights of stairways shall have handrails on each side and shall comply with Section 1014.

IBC 1014.2 Height. Handrail height, measured from a line connecting the nosings of the flight of stairs shall be uniform, not less than 34 inches and note more than 38 inches.

IBC 1014.4.1 Type I. Handrails with a circular cross section shall have an outside diameter of not less than 1-1/4 inches and note greater than 2 inches.

IBC 1014.5 Continuity. Handrail gripping surfaces shall be continuous, without interruption by newel posts or other obstructions.

IBC 1014.7 Handrail extensions. Handrails shall return to a wall, guard, or the walking surface, or shall be continuous to the handrail of an adjacent flight of stairs. Where handrails are not continuous between flights, the handrails shall extend horizontally not less than 12 inches beyond the top landing nosing and continue to slope for the depth of one tread beyond the bottom tread nosing.

IBC 1014.8 Clearance. Clear space between the handrail and a wall or other surface shall be not less than 1-1/2 inches.

IBC 1015.2 Where Required. Guards shall be located along open-sided walking surfaces, such as stairs and landings, that are located more than 30 inches measured vertically to the floor or grade below at any point within 36 inches horizontally to the edge of the open side and at the perimeter of occupiable roofs. Guards shall be adequate in strength and attachment in accordance with Section 1607.9.

IBC 1015.3 Required guards shall be not less than 42 inches high measured vertically from adjacent walking surfaces and on stairways from the line connecting the nosings.

IBC 1015.4 Opening Limitations. Required guards shall not have openings that allow passage of a sphere 4 inches in diameter from the walking surface to the required guard height.

IBC Table 1020.3 Minimum Corridor Width.
The new exterior exit stair is being provided as an additional level of safety, but is not required for travel distance, number of exits, or minimum capacity compliance. As such, the stair will be sized based on the minimum width required to serve an occupant load greater than 50, or 44 inches. Assuming the exterior exit stair access doors will provide 33 inches of clear width and the new stair is 44 inches wide; the exterior exit stair could accommodate 260 occupants (44" / 0.20 = 220).

IBC 1027.3 Open Side. Exterior exit stairways shall be open on not less than one side, except for required structural columns, beams, handrails, and guards. An open side shall have not less than 35 square feet of aggregate open area adjacent to each floor level and the level of each intermediate landing. The required open area shall be located not less than 42 inches above the adjacent floor or landing level.

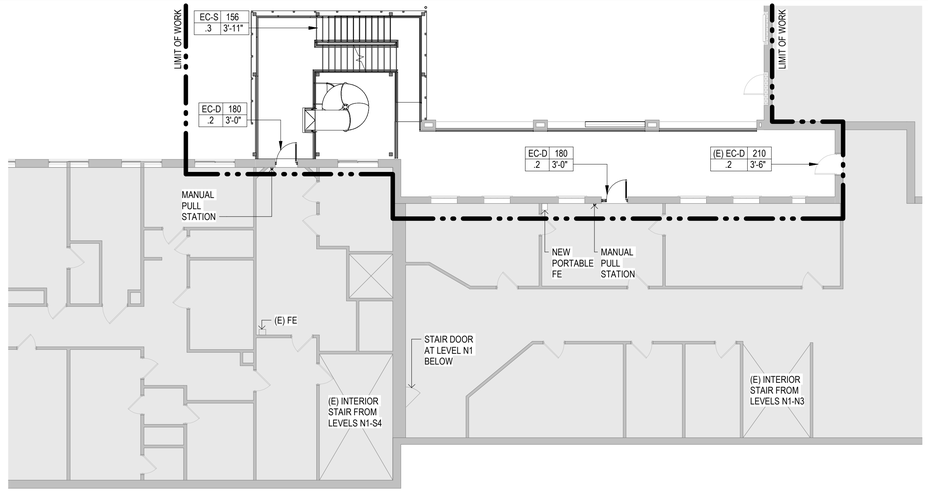
IBC 1027.4 Side Yards. The open areas adjoining exterior exit stairways shall be either yards, courts, or public ways.

IBC 1027.5 Location. Exterior exit stairways and ramps shall have a minimum fire separation distance of 10 feet measured at right angles from the exterior edge of the stairway including to adjacent lot lines, other portions of the building, or other buildings on the same lot.

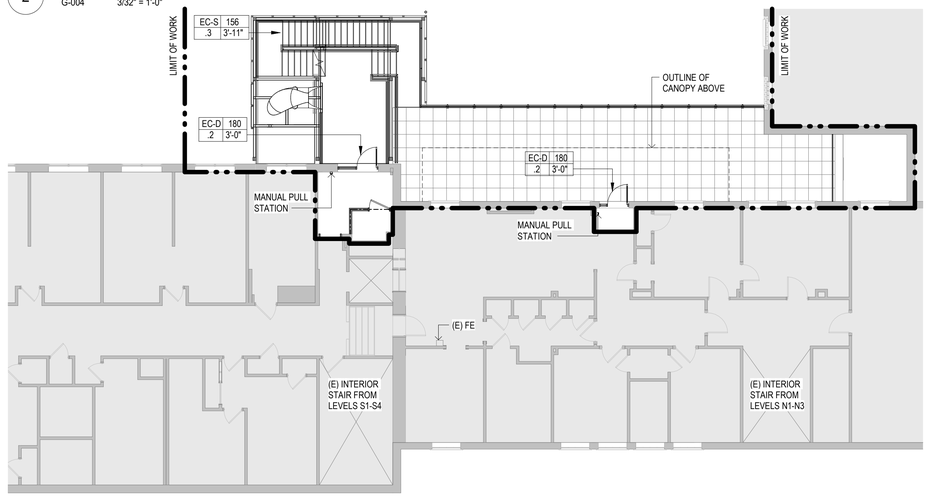
IBC 1027.6 Exterior Exit Stairway and Ramp Protection. Exterior exit stairways shall be separated from the interior of the building as required in Section 1023.2. The exterior exit stair is required to be separated from the interior of the building by
1-hour fire barrier construction that extends for 10 feet in all directions when serving more than two stories.

In lieu of separating the stair from the interior of the building by 1-hour fire rated construction, the Design Team is proposing to locate the stair at least 10 feet from the building it will serve, to mitigate any impact on the stair from a fire in an adjacent space. Confirmed with AHJ on 05 September 2024.

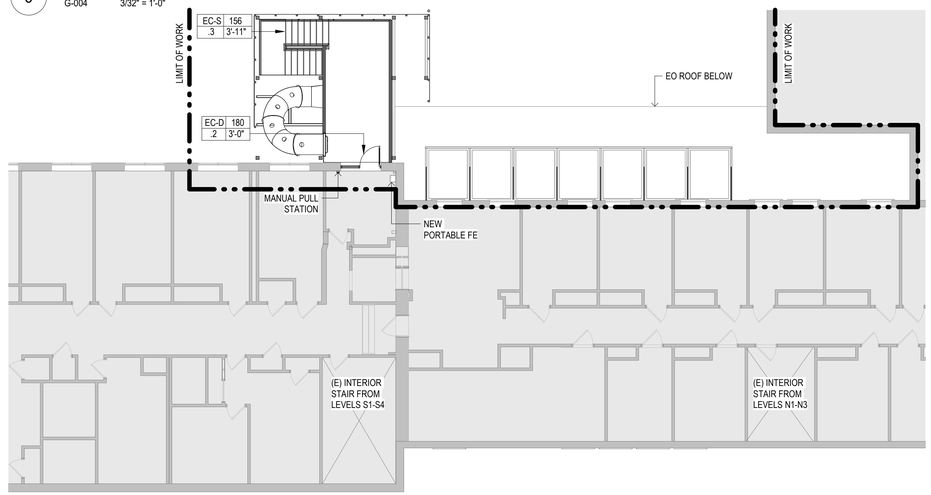
Where the intent of the IBC requires exterior egress components to remain safe, accessible, and protected from hazardous runoff, the project will meet these criteria with a new canopy and a new heat trace system below new pavers along the roof terrace egress path. Variance approved by AHJ on 02 February 2026.



2 LEVEL S2 / N1 (HEALTH CENTER / PORCH) - LIFE SAFETY
G-004 3/32" = 1'-0"



3 LEVEL S3 / N2 (E DORM / LIFE DORM) - LIFE SAFETY
G-004 3/32" = 1'-0"



4 LEVEL S4 / N3 (F DORM) - LIFE SAFETY
G-004 3/32" = 1'-0"

N 3/32" = 1'-0" 0 4' 8' 16' 24'

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
ANNA B.F. IVES
NUMBER A-2010013638
ARCHITECT
29 June 2026

PROFESSIONAL SEAL

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EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
LIFE SAFETY PLANS & CODE ANALYSIS

SHEET NUMBER:
G-004

CIVIL ABBREVIATIONS

ASPH	ASPHALT	OHE	OVERHEAD ELECTRIC
BC	BACK OF CURB	ORD	ORDINANCE
BIT	BITUMINOUS	PB	PLAT BOOK
BK	BOOK	PC	POINT OF CURVATURE
BM	BENCHMARK	PCA	PORTLAND CONCRETE ASSOCIATION
BOP	BEGINNING OF PROJECT	PCC	PORTLAND CEMENT CONCRETE
BW	BOTTOM OF WALL	PCH	PIPE CULVERT HEADWALLS
CL	CENTERLINE	PG	PAGE
CI	CURB INLET	PI	POINT OF INTERSECTION
CJ	CONSTRUCTION JOINT	PIV	POST INDICATOR VALVE
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEANOUT	PP	POWER POLE
CONC	CONCRETE	PROP	PROPOSED
CPR	COPPER PIPE	PSI	POUNDS PER SQUARE INCH
CS	COMBINED SEWER	PT	POINT OF TANGENT
CT	COOLING TOWER	PVC	POINT OF VERTICAL CURVE,
D	DEGREE OF CURVE		POLYVINYL CHLORIDE PIPE
DI	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DIA	DIAMETER	PVMT	PAVEMENT
DIM	DIMENSION	PVT	POINT OF VERTICAL TANGENT
DND	DO NOT DISTURB	R, RAD	RADIUS
DS	DOWNSPOUT	RCP	REINFORCED CONCRETE PIPE
DW	DOMESTIC WATER	RD	ROADWAY
ELEC	ELECTRIC	ROW	RIGHT OF WAY
ELEV	ELEVATION	RTE	ROUTE
EOP	EDGE OF PAVEMENT	SP	SPACES
EX, EXIST	EXISTING	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SS, SA	SANITARY SEWER
ET	ELECTRIC TRANSFORMER	ST	STORM SEWER
FF	FINISH FLOOR	STA	STATION
FH	FIRE HYDRANT	STL	STEEL PIPE
FL	FLOW LINE	TBA	TO BE ABANDONED
FO	FIBER OPTIC	TBA&F	TO BE ABANDONED AND FILLED
FP	FIRE PROTECTION	TBR	TO BE REMOVED
FW	FIRE WATER	TBR&R	TO BE REMOVED AND REPLACED
G	NATURAL GAS	TBR&S	TO BE REMOVED AND SALVAGED
GM	GAS METER	TC	TOP OF CURB
GV	GAS VALVE	TELE	TELEPHONE
HORIZ	HORIZONTAL	TI	TOP OF INLET
ID	INSIDE DIAMETER	TW	TOP OF WALL
INV	INVERT	TYP	TYPICAL
L	LENGTH OF CURVE	UG	UNDERGROUND
MAX	MAXIMUM	UGE	UNDERGROUND ELECTRIC
MEP	MECHANICAL/ELECTRICAL/PLUMBING	UGT	UNDERGROUND TELEPHONE
MH	MANHOLE	UIP	USE IN PLACE
MIN	MINIMUM	VAC	VACATED
MISC	MISCELLANEOUS	VCP	VITRIFIED CLAY PIPE
MON	MONUMENT	VERT	VERTICAL
N	NORTH	W	WATER
NIC	NOT IN CONTRACT	W/	WITH
NO	NUMBER	WM	WATER METER
NTS	NOT TO SCALE	WV	WATER VALVE
OC	ON CENTER	WWF	WELDED WIRE FABRIC
OD	OUTSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
OH	OVERHEAD		

CIVIL LEGEND

EXISTING:		PROPOSED	
PP	POWER POLE W/GUY WIRE	PROPERTY LINE	
PP	POWER POLE	SILTATION FENCE	
	GUY WIRE	ST	STORM SEWER
	STREET SIGN	DS	DOWNSPOUT COLLECTION
GV	GAS VALVE	DT	DRAINTILE COLLECTION
GM	GAS METER	SS	SANITARY SEWER
WV	WATER VALVE	DW	DOMESTIC WATER
WM	WATER METER	FW	FIRE SERVICE WATER
WF/WS	WATER FAUCET OR SPRINKLER	OHE	OVERHEAD ELECTRIC
CO	CLEAN OUT	UE	UNDERGROUND ELECTRIC
YD	YARD DRAIN	UT	UNDERGROUND TELEPHONE
EB/EM	ELECTRIC BOX OR METER	UC	UNDERGROUND CABLE
MB	MAIL BOX	FO	UNDERGROUND FIBEROPTIC
TB/CM	TELEPHONE OR CABLE BOX	CWR	CHILLED WATER RETURN
LS	LIGHT STANDARD	CWS	CHILLED WATER SUPPLY
FH	FIRE HYDRANT	G	NATURAL GAS
TS	TRAFFIC SIGNAL		
EYL	ELECTRIC YARD LIGHT		
CM	COIN METER		
	CONTOL STATION		
	SURVEY CONTROL POINT		
	AREA/GRATE INLET		
	CURB/DROP INLET		
	MANHOLE		
OU	OVERHEAD UTILITY LINE		
G	GAS LINE		
T	UNDERGROUND TELEPHONE		
	SANITARY SEWER		
	FENCE LINE		
	TREE DRIP LINE W/RADIUS		
	TREE LINE		
±	PLUS OR MINUS		
10"	TREE W/ SIZE		
48"	BUSH W/ SIZE		

GENERAL NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS/INSPECTIONS/ETC. IN ORDER TO COMPLETE THIS PROJECT. THE COST ASSOCIATED WITH ALL PERMITS/INSPECTIONS/ETC. SHALL BE INCLUDED IN THE CONTRACT AMOUNT.
2. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH APPLICABLE OSHA REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY ALL FIGURES AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. IF ANY INFORMATION IN THE FIELD DIFFERS FROM THAT ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY.
4. ALL AFFECTED OFFSITE PROPERTY OWNERS SHALL BE GIVEN NOTICE 48 HOURS IN ADVANCE OF ANY WORK.

GRADING NOTES (APPLY TO ALL CIVIL SHEETS)

1. INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.
2. NO SLOPES SHALL EXCEED 3H:1V.
3. PROPOSED ELEVATIONS SHOWN ON PLAN ARE FINISH GRADE ELEVATIONS.
4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING COMPACTION OF BACKFILL MATERIALS OVER THE TOP OF STRUCTURES AND/OR PIPES IN ORDER TO PREVENT ANY DAMAGE.
5. CLEARING TECHNIQUES THAT RETAIN VEGETATION TO THE MAXIMUM EXTENT PRACTICAL SHALL BE USED, AND THE TIME PERIOD FOR DISTURBED AREAS TO BE WITHOUT VEGETATIVE COVER SHALL BE MINIMIZED TO THE EXTENT PRACTICAL.
6. WHEN ANY GRADING OCCURS PRIOR TO FINAL GRADING, THE SITE SHALL AT ALL TIMES BE MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
7. ALL EXCESS EARTHWORK MATERIALS SHALL BE HAULED OFF-SITE AND DISPOSED OF IN AN APPROVED LANDFILL.

UTILITY NOTES (APPLY TO ALL CIVIL SHEETS)

1. LOCATE EXISTING UNDERGROUND UTILITIES AND SEWERS IN AREAS OF WORK PRIOR TO STARTING OPERATIONS. WHEN UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING OPERATIONS. SHOULD UNKNOWN UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE IMMEDIATELY FOR FURTHER DIRECTION.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL BETWEEN ANY WATER LINE AND ANY SANITARY SEWER LINE.
3. CONTRACTOR SHALL PROVIDE TEMPORARY COVERS FOR ANY EXCAVATIONS LEFT UNATTENDED FOR ANY PERIOD OF TIME.
4. TOP ELEVATIONS OF ALL PROPOSED AND EXISTING UTILITY STRUCTURES HAVE BEEN DESIGNED TO MATCH FINISH GRADE. IF FIELD FINISH GRADE DIFFERS FROM DESIGN TOP ELEVATIONS SHOWN ON THESE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.

SITE NOTES (APPLY TO ALL CIVIL SHEETS)

1. SITE DIMENSIONS ARE TO BACK OF CURB, PROPERTY LINE, OR BUILDING FACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS AND RADII TO OR FROM CURB LINES ARE TO BACK OF CURB.

PUBLIC UTILITY CONTACTS

CONTACT TYPE:	COMPANY NAME:	CONTACT PHONE:	STREET ADDRESS:	
STORM/SANITARY:	METROPOLITAN ST. LOUIS SEWER DISTRICT (MSD)	(314) 768-6272	2350 MARKET STREET	ST. LOUIS, MO 63103
ELECTRIC:	AMEREN MISSOURI	(866) 992-6619	1901 CHOUTEAU AVE.	ST. LOUIS, MO 63166
NATURAL GAS:	SPIRE	(314) 575-4843	720 OLIVE STREET	ST. LOUIS, MO 63101
WATER:	CITY WATER DIVISION	(314) 633-9000	4600 MCREE AVE	ST. LOUIS, MO 63110

CIVIL DRAWING INDEX

C-000	CIVIL GENERAL INFORMATION
C-100	DEMOLITION PLAN
C-200	SITE PLAN
C-300	CIVIL DETAILS
C-301	CIVIL DETAILS

SURVEY INFORMATION

PROPERTY ADDRESS:

3815 MAGNOLIA AVE,
ST. LOUIS, MO 63110
PARCEL ID #2109-9-180.000

OWNER INFORMATION:

OFFICE OF ADMINISTRATION DIVISION OF FACILITIES
MANAGEMENT, DESIGN AND CONSTRUCTION
301 W. HIGH ST. - ROOM 730
POST OFFICE BOX 809
JEFFERSON CITY, MISSOURI 65102

SITE BENCHMARK:

ELEVATION - 520.59
CUT "U" ON NORTH EDGE OF OF CONC. BASE FOR YARD LIGHT.

PER SURVEY COMPLETED BY CIVIL DESIGN INC,
DATED JUNE 2024

CONTROL STATMENT:

STATE PLANE COORDINATES, BEARINGS, AND ELEVATIONS ON THIS PROJECT WERE ESTABLISHED UTILIZING THE MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL TIME NETWORK FOR CONTINUOUS OPERATING REFERENCE STATIONS DURING THE MONTH OF MAY 2025, AND ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, ZONE EAST, 2401, GRID NORTH, AND THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).

PROJECT LOCATION MAP

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STATE OF MISSOURI
MICHAEL L. PARSON, GOVERNOR

STATE OF MISSOURI · SARA ANDERT · NUMBER PE-2013019007 · PROFESSIONAL ENGINEER
6/29/2026

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EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: SJA
CHECKED BY: DL
DESIGNED BY: SJA

SHEET TITLE:
CIVIL GENERAL INFORMATION

SHEET NUMBER:
C-000

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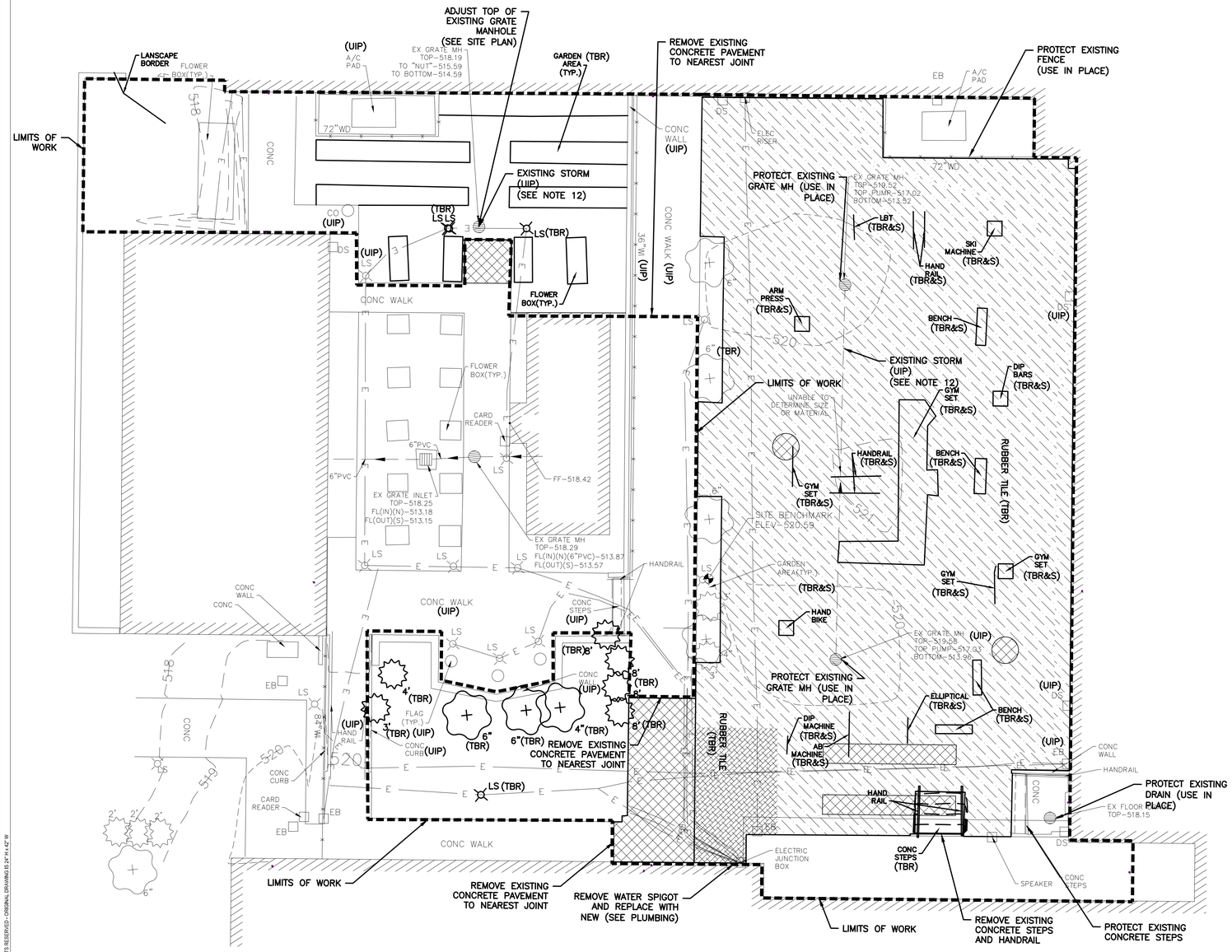
Missouri State Certificate of Authority #2002006804



LEGEND:

(TBR&S)	TO BE REMOVED & SALVAGED (SEE DEMOLITION NOTE 1)
(TBR)	TO BE REMOVED
(UIP)	USE IN PLACE
- - -	LIMITS OF WORK
	PAVEMENT TO BE REMOVED
	RUBBER PLAYGROUND SURFACE TILES TO BE REMOVED
	CONCRETE BASE UNDER TILES TO BE REMOVED

DEMOLITION NOTES (APPLY TO ALL CIVIL SHEETS):

1. EXISTING PLAYGROUND SHALL BE REMOVED AND SALVAGED AND RETURNED TO OWNER. REMOVE ALL CONCRETE FOOTINGS DOWN TO THE TOP LEVEL OF THE PLAYGROUND SURFACE CONCRETE BASE.
2. AREAS SURROUNDING THIS SITE WILL CONTAIN BOTH PEDESTRIAN AND VEHICLE TRAFFIC. ALL NECESSARY CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE THE SAFETY OF THE GENERAL PUBLIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND MAINTAINING SAFE AND EFFICIENT PROJECT LIMITS. THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL GUIDELINES WITH REGARDS TO CONSTRUCTION SAFETY THROUGHOUT THE ENTIRE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY BREACHES OF SAFETY OR DESTRUCTION OF PROPERTY RELATED TO THE CONSTRUCTION OF THIS PROJECT.
3. UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION BEFORE EXCAVATION OR TRENCHING TO AVOID DAMAGE THERETO.
4. ANY PAVEMENT INDICATED TO BE REMOVED SHALL BE REMOVED COMPLETELY. THIS INCLUDES ANY AND ALL GRANULAR BASE ENCOUNTERED.
5. ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
6. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE ANY EXISTING SITE FEATURES TO REMAIN. IF ANY DAMAGE OCCURS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY. THE CONTRACTOR SHALL REPAIR ALL DAMAGED ITEMS TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
7. CONTRACTOR SHALL SAWCUT PAVEMENT AT LOCATIONS SHOWN, OR REMOVE ENTIRELY TO NEAREST AVAILABLE JOINT.
8. ANY EXISTING UTILITIES SHOWN TO BE REMOVED OR ABANDONED SHALL BE DONE ACCORDING TO ALL APPLICABLE REGULATIONS OF EACH RESPECTIVE UTILITY COMPANY OR AUTHORITY.
9. ANY EXISTING BELOW GRADE DEBRIS OR OBSTACLES ENCOUNTERED SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR FURTHER DIRECTION.
10. USE OF EXPLOSIVES AND/OR BURNING ON SITE IS NOT PERMITTED.
11. CONTRACTOR SHALL CONTACT MISSOURI ONE-CALL SYSTEM (1-800-DIG-RITE) TO HAVE PUBLIC UTILITIES LOCATED PRIOR TO START OF OPERATIONS.
12. CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS FROM EXISTING STORM STRUCTURES AND DOWNSTREAM PIPING PRIOR TO INSTALLATION OF NEW SURFACES..

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 INCH = 10 FT.

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EGRESS STAIR

MISSOURI
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SAINT LOUIS, MO 63110

PROJECT # E2332-01
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CAD DWG FILE:
DRAWN BY: SJA
CHECKED BY: DL
DESIGNED BY: SJA

SHEET TITLE:
DEMOLITION PLAN

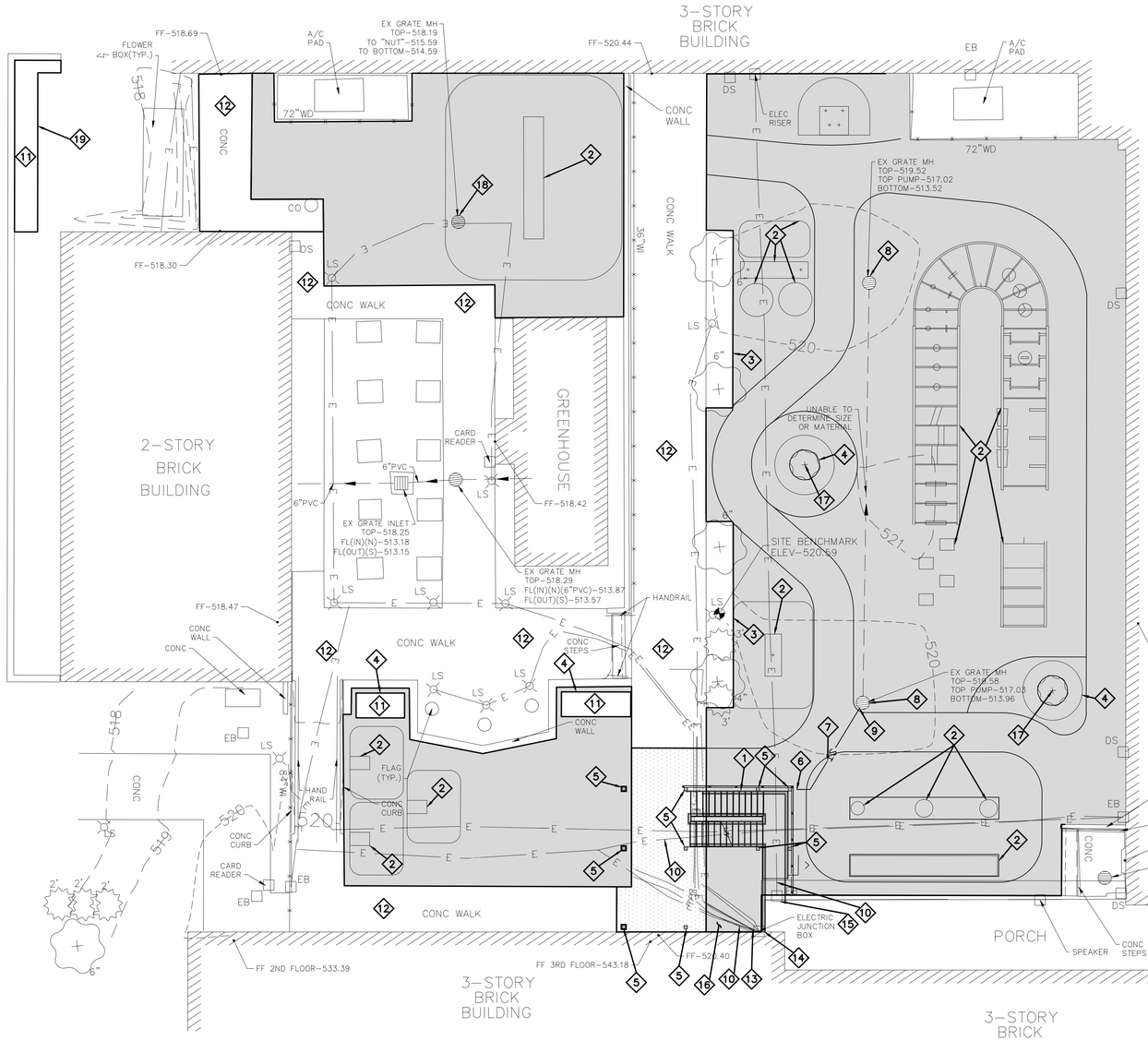
SHEET NUMBER:
C-100

LEGEND:

ST — STORM PIPE

RUBBER AND TURF PLAYGROUND SURFACE (SEE ARCH AND BASIS OF DESIGN DETAILS ON C-301)

RUBBER PLAYGROUND SURFACE WITH NEW CONCRETE BASE UNDERNEATH (SEE ARCH AND BASIS OF DESIGN DETAILS ON C-301)



KEYED NOTES:

1. EGRESS STAIR (SEE ARCH)
2. NEW PLAYGROUND EQUIPMENT (SEE ARCH)
3. LANDSCAPE AREA TO REMAIN
4. INSTALL IRRIGATION TO NEW PLANTER BED (SEE IRRIGATION NOTE)
5. COLUMN (SEE ARCH)
6. COORDINATE DOWNSPOUT LOCATION WITH ARCH; PIPE DOWNSPOUT BELOW GRADE AS SHOWN (SEE DETAIL C3.00/A)
7. PRIVATE STORM PIPE (4" PVC @ 1% SLOPE) (FOLLOW CITY OF ST. LOUIS PLUMBING CODE)
8. EXISTING INLET TO BE USED IN PLACE. PRIOR TO INSTALLATION OF NEW SURFACE MATERIAL, WRAP NON-WOVEN GEOTEXTILE FILTER FABRIC OVER GRATE COVER AND SECURE TIGHTLY WITH WIRE.
9. CONNECT PRIVATE STORM TO EXISTING DRAIN
10. RELOCATE EXISTING UNDERGROUND ELECTRIC AND RECONNECT TO ELECTRIC BOX (PER AMEREN STANDARDS & ELECTRIC DRAWINGS)
11. MULCH LANDSCAPE AREA WITH STEEL EDGING. INSTALL STEEL EDGING PER MANUFACTURER SPECIFICATIONS (STEEL EDGING TO BE COLMET QUICKLOCK STEEL EDGING, 4" HEIGHT, STAINLESS STEEL, OR APPROVED EQUAL)
12. EXISTING PAVEMENT (USE IN PLACE)
13. REPLACE WATER SPIGOT WITH NEW IN SAME LOCATION AS EXISTING (SEE MEPFT)
14. RELOCATE EXISTING ELECTRIC BOX (PER AMEREN STANDARDS & ELECTRIC DRAWINGS)
15. ELECTRIC BOX TO REMAIN (PROTECT AS NECESSARY)
16. NEW CONCRETE DRAINAGE SLAB WITH POSITIVE DRAINAGE AWAY FROM BUILDING
17. NEW TREE AND TREE WELL WITHIN CONCRETE BENCH (SEE ARCH)
18. ADJUST TOP OF EXISTING INLET TO TOP OF SUB BASE (BELOW SBR LAYER). WRAP TOP OF GRATE WITH NON-WOVEN GEOTEXTILE FILTER FABRIC

SITE NOTES (APPLY TO ALL CIVIL SHEETS):

1. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH APPLICABLE OSHA REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL NECESSARY INSPECTIONS WITH THE UTILITY COMPANIES/JURISDICTIONS INVOLVED WITH THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FEES ASSOCIATED WITH PERMITS, INSPECTIONS, AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES.
3. THE CONTRACTOR SHALL REDESIGN AND REINSTALL IRRIGATION.
4. PROPOSED FINISH GRADES SHALL MATCH EXISTING FINISH GRADES, EXCEPT WHERE NOTED OTHERWISE.

UTILITY NOTES (APPLY TO ALL CIVIL SHEETS):

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THAT THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION BEFORE EXCAVATION OR TRENCHING TO AVOID DAMAGE THERETO.
2. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES AND SEWERS IN AREAS OF WORK PRIOR TO STARTING OPERATIONS. WHEN UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTION DURING OPERATIONS. SHOULD UNKNOWN UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL NOTIFY UTILITY OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY FOR FURTHER DIRECTION.
3. ALL UTILITY CONNECTIONS SHALL BE COMPLETED TO THE APPROPRIATE STANDARDS OF EACH RESPECTIVE UTILITY COMPANY.
4. ANY EXISTING SEWERS/UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE SATISFACTION OF THE SEWER/UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL ADJUST SIZE OF TRENCH EXCAVATIONS AS REQUIRED ON A CASE BY CASE BASIS TO PROPERLY CONSTRUCT UTILITY SERVICES. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING TRENCH EXCAVATIONS AS REQUIRED ACCORDING TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

IRRIGATION NOTE:

1. PROVIDE IRRIGATION TO LANDSCAPE AREAS AS NOTED ON THIS PLAN. CONTRACTOR TO SUBMIT IRRIGATION DESIGN INCLUDING LAYOUT OF PIPING AND PROPOSED HEADS TO OWNER FOR REVIEW.

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)

1 INCH = 10 FT.

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PROFESSIONAL ENGINEER
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EGRESS STAIR

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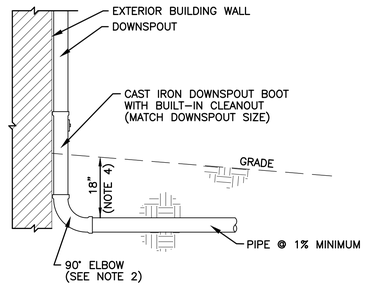
DRAWN BY: SJA
CHECKED BY: DL
DESIGNED BY: SJA

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-200



NOTES:
1. PIPE AND FITTINGS UNDER LAWNS/LANDSCAPING SHALL BE PVC:SDR-35. PIPE AND FITTINGS UNDER PAVEMENTS SHALL BE PVC:SDR-26.

2. IF 90° ELBOW CONFLICTS WITH BUILDING FOOTING, CONSTRUCT ELBOW AT TOP OF FOOTING AND SLOPE AT MAXIMUM GRADE TO 12" BELOW GRADE.

3. REMOVE/REPLACE/ADD DOWNSPOUT STRAPS AS NECESSARY TO SECURE PIPING TO BUILDING.

4. USE MAXIMUM COVER WHERE SITE CONDITIONS WILL ALLOW POSITIVE DRAINAGE.

A PIPED DOWNSPOUT
NOT TO SCALE

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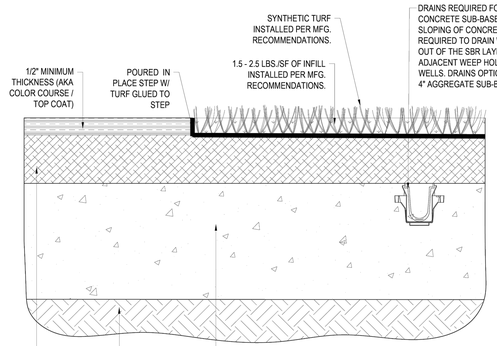

SECTION VIEW

NOTES:
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2. DO NOT SCALE DRAWING.
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4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5221-083.

TOTTURF SYNTHETIC GRASS

SYNTHETIC TURF TO POURED-IN-PLACE OVERLAP WITH SBR RUBBER ATTENUATION

5221-083 REVISION DATE 06/09/2024

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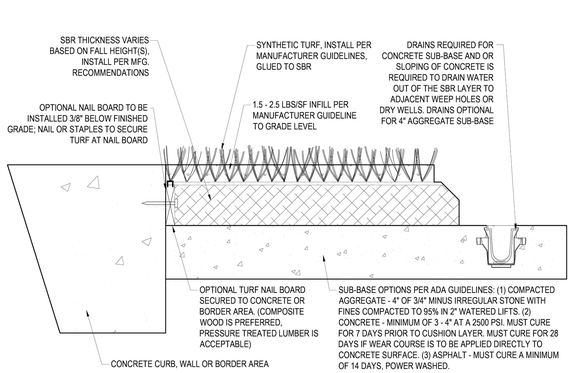

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TOTTURF SYNTHETIC GRASS

SYNTHETIC TURF WITH BORDER AND SBR RUBBER ATTENUATION (WITH OR WITHOUT NAIL BOARD)

5221-080 REVISION DATE 04/09/2024

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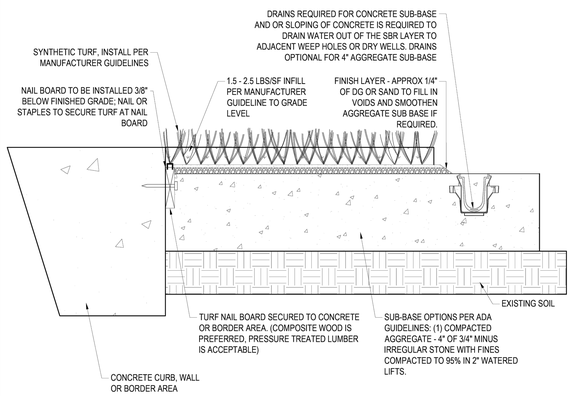

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TOTTURF SYNTHETIC GRASS

SYNTHETIC TURF WITH BORDER, NAIL BOARD AND NO ATTENUATION OVER AGGREGATE BASE

5221-082 REVISION DATE 04/09/2024

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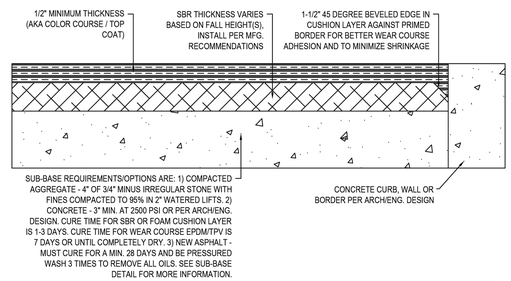

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5. ADDITIONAL INFORMATION (MAY NOT BE VISIBLE) AVAILABLE IN MODEL SPACE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5221-005.

ROBERTSON RECREATIONAL SURFACES

PIP FLUSH MOUNT TO WALL, CURB, OR SIDEWALK WITH ATTENUATION

5221-005 CADdetailsPLUS™ REVISION DATE 08/12/2020

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NOTE:

THESE PLAY SURFACE DETAILS ILLUSTRATE THE BASE OF DESIGN FOR THE PLAYGROUND SURFACE. SEE ARCH FOR ADDITIONAL INFORMATION. DEPTH OF SBR AND SUB-GRADE BASES SHALL BE DETERMINED BASE ON PLAYGROUND EQUIPMENT REQUIREMENTS.

EXISTING DRAINS WILL BE USED IN PLACE FOR THE PLAY SURFACE AREAS. THERE ARE NO NEW DRAINS IN THE SCOPE OF WORK.

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PAGE 9 OF 44
29 JUNE 2026
CONSTRUCTION DOCUMENTS - BID

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STRUCTURAL GENERAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS

1. CONSTRUCTION MEANS AND METHODS
   - A. CONTRACTOR AND SUBS SHALL NOT SCALE DRAWINGS FOR PURPOSES OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY DIMENSIONAL DISCREPANCIES FOUND BETWEEN DISCIPLINES.
   - B. CONTRACTOR AGREES THAT CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF THE WORK, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD OWNER AND STRUCTURAL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER OR STRUCTURAL ENGINEER.
   - C. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: PROTECTION OF SUBGRADE FROM FREEZING CONDITIONS, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
   - D. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY CONTRACTOR'S RESPONSIBILITY UNDER THE CONTRACT.
   - E. KPFF CONSULTING ENGINEERS SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S SCHEDULE OR FAILURES TO CARRY OUT ANY CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. KPFF CONSULTING ENGINEERS SHALL NOT HAVE CONTROL OVER OR CHARGE OF ACTIONS OF CONTRACTOR, SUBCONTRACTOR, OR ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING PORTIONS OF ANY CONSTRUCTION ACTIVITIES.
   - F. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS WHICH MAY BE REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DETERMINED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.

2. SUBMITTALS
   - A. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT.
   - B. REPRODUCTION OF STRUCTURAL DRAWINGS SHALL BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE.
   - C. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED EQUIPMENT WEIGHTS, OPENING SIZES, AND LOCATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH DOCUMENTS FROM OTHER DISCIPLINES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
   - D. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING SIZE, METHOD OF ANCHORAGE, WEIGHT, OPENINGS, AND LOCATIONS OF EQUIPMENT NOT INDICATED ON THE STRUCTURAL DRAWINGS PRIOR TO ORDERING FOR REVIEW BY STRUCTURAL ENGINEER TO DETERMINE ADEQUACY OF THE STRUCTURE.
   - E. ALL SUBMITTALS REVIEWED BY STRUCTURAL ENGINEER ARE REVIEWED FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY AND DOES NOT RELIEVE THE FABRICATOR/VENDOR OF RESPONSIBILITY FOR CONFORMANCE WITH DESIGN DRAWINGS AND SPECIFICATIONS, ALL OF WHICH HAVE PRIORITY OVER SUBMITTALS.
   - F. SUBMITTALS SHALL BE REVIEWED WITHIN 10 WORKING DAYS AFTER BEING RECEIVED BY STRUCTURAL ENGINEER.

3. QUALITY REQUIREMENTS
   - A. REFERENCE TO STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE STANDARDS IN EFFECT AS OF DATE OF THE CONTRACT DOCUMENTS, UNLESS OTHERWISE NOTED.
   - B. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH STANDARD SPECIFICATIONS OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION.
   - C. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION OR CODE, WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS, SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO STRUCTURAL ENGINEER OR ANY OF STRUCTURAL ENGINEER'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
   - D. ALL OMISSIONS AND CONFLICTS WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   - E. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
   - F. SEE DOCUMENTS BY OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
   - G. NO PIPES, CONDUITS, SLEEVES, DUCTS, CHASES, ETC. SHALL BE PLACED WITHIN STRUCTURAL WALLS, BEAMS, SLABS OR COLUMNS NOR SHALL ANY STRUCTURAL MEMBERS BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY NOTED. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, CONDUITS, PIPES, SLEEVES, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS, BUT ARE LOCATED IN STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
   - H. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED, WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
   - I. THE DESIGN RESPONSIBILITY OF THE ELEMENTS LISTED BELOW IS BEING DELEGATED TO A SPECIALTY STRUCTURAL ENGINEER HIRED BY THE CONTRACTOR. THE DESIGNATED ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE, LOCAL AMENDMENTS, AND SPECIFIC REQUIREMENTS IN THE CONTRACT DOCUMENTS BY AN ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMITTALS SHALL BE SEALED BY THE RESPONSIBLE LICENSED ENGINEER. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS TO PRIMARY STRUCTURE SHALL BE DESIGNED BY A SPECIALTY STRUCTURAL ENGINEER:
     1. EXCAVATION SUPPORT
     2. TEMPORARY BRACING AND SHORING
     3. UNDERPINNING OF EXISTING CONSTRUCTION, IF REQUIRED
     4. SUPPORT AND SEISMIC BRACING OF MECHANICAL, ELECTRICAL PLUMBING, AND FIRE PROTECTION (M/E/P/FP) SYSTEMS COMPONENTS
        - a. DO NOT SUPPORT SYSTEMS FROM STEEL ROOF DECK
        - b. POWDER ACTUATED FASTENERS INSTALLED IN CONCRETE SHALL NOT BE USED TO RESIST SEISMIC LOADS
     5. STAIRS, HANDRAILS AND GUARDRAILS
     6. PRE-ENGINEERED CANOPIES AND THEIR CONNECTIONS TO SUPPORTING STRUCTURE
     7. LADDERS
     8. PANELIZED SYSTEMS
     9. ROOF SAFETY TIE-OFF SYSTEMS AND THEIR ATTACHMENT TO STRUCTURE
     10. WINDOW SYSTEMS AND THEIR ATTACHMENT TO STRUCTURE

4. STRUCTURAL SPECIAL INSPECTIONS
   - A. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE GOVERNING BUILDING CODE AND THE STATEMENT OF SPECIAL INSPECTIONS ON SHEET S101.

5. DESIGN CRITERIA:
   - A. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE ICC INTERNATIONAL BUILDING CODE, 2018 EDITION.
     1. BUILDING RISK CATEGORY III.
   - B. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.
   - C. GRAVITY LOADS:
     1. UNIFORM ROOF LIVE LOADS:
        - a. LIVE LOAD: 20 PSF
        - b. SNOW LOAD:
          1. GROUND SNOW LOAD: 20 PSF
          2. FLAT ROOF SNOW LOAD: 16 PSF, MIN
          3. SNOW EXPOSURE FACTOR: 1.0
          4. SNOW IMPORTANCE FACTOR: 1.1
          5. SNOW THERMAL FACTOR: 1.0
     2. PHOTOVOLTAIC LOAD: 5 PSF
     3. RAIN INTENSITY: 3.13 IN/HR
     4. UNIFORM FLOOR LIVE LOADS

PATIO	100 PSF
STAIRS	100 PSF

     5. CONCENTRATED FLOOR LIVE LOADS
        - a. LOADS ARE DISTRIBUTED OVER AN AREA OF 2-1/2 SQ. FT., UNLESS NOTED OTHERWISE.

STAIRS	300 LB (OVER 4 SQ. IN.)

     6. CONCENTRATED LATERAL LIVE LOADS
        - a. HANDRAIL ASSEMBLIES:
          1. TOP RAIL: 200 LB. OR 50 LB/FT APPLIED NON-CONCURRENTLY IN ANY DIRECTION.
          2. INTERMEDIATE RAILS, BALUSTERS, FILLER PANELS, ETC.: 50 PSF APPLIED NON-CONCURRENTLY WITH THE TOP RAIL LOAD.

   - A. LATERAL LOADS:
     1. WIND DESIGN DATA
        - a. BASIC WIND SPEED:
          1. ULTIMATE DESIGN WIND SPEED, V_{ULT}: 115 MPH
          2. NOMINAL DESIGN WIND SPEED, V_{ASD}: 89 MPH
        - b. EXPOSURE: B
        - c. ENCLOSURE CLASSIFICATION: ENCLOSED BUILDING
        - d. INTERNAL PRESSURE COEFFICIENT: +/-0.18
        - e. COMPONENTS AND CLADDING DESIGN WIND PRESSURE

	EFFECTIVE WIND AREA		
	10 SF	100 SF	500 SF
ZONE 1	-40.6/+16.0	-31.7/+16.0	-25.5/+16.0
ZONE 2	-53.6/+16.0	-42.1/+16.0	-34.1/+16.0
ZONE 3	-73.0/+16.0	-50.1/+16.0	-34.1/+16.0
ZONE 4	-25.3/+23.3	-21.8/+19.9	-19.4/+17.5
ZONE 5	-31.1/+23.3	-24.2/+19.9	-19.4/+17.5

     2. EARTHQUAKE DESIGN DATA
        - a. SEISMIC IMPORTANCE FACTOR: 1.25
        - b. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_S=0.451, S_1=0.160
        - c. SITE CLASSIFICATION: C
        - d. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: S_{DS}=0.391, S_{D1}=0.160
        - e. SEISMIC DESIGN CATEGORY: C
        - f. BASIC SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
        - g. DESIGN BASE SHEAR: V=5.1 KIP
        - h. SEISMIC RESPONSE COEFFICIENT: C_S=0.163
        - i. RESPONSE MODIFICATION FACTOR, R: 3.0
        - j. DEFLECTION AMPLIFICATION FACTOR, C_D: 3.0
        - k. OVERSTRENGTH FACTOR, Ω: 3.0
        - l. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

1. STAIRS
   - A. UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, ALL STAIRS, INTERMEDIATE LANDINGS, RAILINGS, AND CONNECTIONS BACK TO THE PRIMARY STRUCTURE SHALL BE DESIGNED BY THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER.
   - B. STAIRS AND RAILINGS SHALL CONNECT DIRECTLY TO THE PRIMARY STEEL BEAMS. ALL CONNECTIONS SHALL ONLY APPLY CONCENTRIC VERTICAL LOADS TO THE STEEL BEAMS. THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN ANY BRACES, KICKERS, OR MISCELLANEOUS METAL NECESSARY TO RESOLVE ANY ECCENTRIC, TORSIONAL, OR HORIZONTAL LOADS APPLIED TO THE BEAMS.
2. M/E/P/FP AND SYSTEM SUPPORTS
   - A. UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR'S DELEGATED SPECIALTY STRUCTURAL ENGINEER SHALL DESIGN ALL VERTICAL AND LATERAL SUPPORTS FOR M/E/P/FP AND MISCELLANEOUS SYSTEMS.
   - B. CONNECTIONS TO THE PRIMARY STRUCTURE SHALL BE TO THE STEEL BEAMS OR COMPOSITE SLAB.
     1. CONNECTIONS TO THE STEEL BEAMS SHALL ONLY APPLY CONCENTRIC VERTICAL LOADS TO THE BEAMS. THE CONTRACTOR SHALL SUPPLY ADDITIONAL MISCELLANEOUS METALS AS NECESSARY TO RESOLVE ANY ECCENTRIC, TORSIONAL, OR HORIZONTAL LOADS APPLIED TO THE BEAMS.
     2. CONNECTIONS TO STEEL BEAMS SHALL NOT IMPART ADVERSE LOCAL STRESSES WITHIN THE FLANGES OR WEBS OF THE BEAMS.
     3. CONNECTIONS SHALL NOT BE MADE TO STEEL ROOF DECK.
3. EXISTING STRUCTURE
   - A. SIZES AND LOCATIONS OF EXISTING STRUCTURE HAVE BEEN PROVIDED FOR REFERENCE ONLY. ALL EXISTING SIZES AND LOCATIONS ARE TAKEN FROM THE EXISTING DESIGN DRAWINGS THAT WERE PROVIDED TO THE DESIGN TEAM AND DO NOT REPRESENT AS-BUILT CONDITIONS.
   - B. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS OF THE EXISTING STRUCTURE PRIOR TO STARTING FABRICATION.
   - C. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
   - D. THE EXISTING STRUCTURE MAY REQUIRE TEMPORARY SHORING AND BRACING WHILE PERFORMING MODIFICATIONS ON THE EXISTING STRUCTURE.
     1. THE CONTRACTOR SHALL HIRE AN ENGINEER TO INVESTIGATE WHERE ANY TEMPORARY SHORING/BRACING IS REQUIRED AND TO DESIGN THIS SHORING/BRACING.
     2. THE ENGINEER SHALL BE LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE WORK IS TO BE PERFORMED.

DIVISION 2 - FOUNDATIONS

1. GENERAL
   - A. FOUNDATION DESIGN IS BASED UPON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY SCI ENGINEERING, INC. DATED AUGUST 20, 2019 AND PRESUMPTIVE ALLOWABLE BEARING PRESSURE PER IBC CHAPTER 18. STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD THAT ARE DIFFERENT FROM THOSE ASSUMED IN DESIGN.
   - B. OWNER'S GEOTECHNICAL REPRESENTATIVE SHALL CERTIFY THE BEARING MEDIUM.
   - C. EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
   - D. BOTTOM OF EXTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 30 INCHES BELOW THE LOWEST FINISHED ELEVATION FOR FROST PROTECTION.

2. FOOTINGS
   - A. ALL FOOTINGS SHALL BEAR ON AND BE FORMED BY CLEAN, UNDISTURBED, VIRGIN, SUB-SOIL OR COMPACTED ENGINEERED FILL WITH AN ALLOWABLE BEARING PRESSURE OF 2000 PSF.
     1. NO FOOTING SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW THE BOTTOM OF FOOTING AND REPLACE WITH COMPACTED ENGINEERED FILL.

3. UNDERPINNING
   - A. UNDERPIN EXISTING FOUNDATION WALL IN SEQUENCE INDICATED IN THE STRUCTURAL DRAWINGS AND DRY PACK WITH NON-METALLIC, NON-SHRINK GROUT.
   - B. EXISTING CONSTRUCTION SHALL BE BRACED UNTIL UNDERPINNING IS COMPLETE.

DIVISION 3 - CONCRETE

1. REINFORCING
   - A. GENERAL
     1. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, DEFORMED BARS, UNLESS NOTED OTHERWISE. WELDING OF ASTM A615, GRADE 60 REINFORCING IS NOT ALLOWED.
     2. REINFORCING STEEL TO BE WELDED SHALL BE ASTM A706, DEFORMED BARS.
     3. EPOXY-COATED REINFORCING STEEL SHALL BE ASTM A775.
     4. WELDED WIRE REINFORCING SHALL BE ASTM A1064, CONTACT LAP SPLICED 12 INCHES MINIMUM.
     5. ALL REINFORCING BARS SHALL BE DETAILED, FABRICATED, SUPPORTED, AND PLACED IN ACCORDANCE WITH ACI 301 AND CRSI'S "MANUAL OF STANDARD PRACTICE", UNLESS NOTED OTHERWISE.
     6. REINFORCING, INCLUDING DOWELS, SHALL BE SECURELY TIED AND CAST WITH THE LOWER MEMBER. PLACING REINFORCING AFTER CONCRETE HAS BEEN PLACED IS NOT PERMITTED.
     7. FIELD BENDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THE STRUCTURAL DOCUMENTS OR APPROVED BY STRUCTURAL ENGINEER.
     8. PROVIDE DOWELS FROM FOUNDATION THE SAME GRADE, SIZE, AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
     9. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
     10. ADHESIVE FOR REINFORCING DOWELS INTO EXISTING CONCRETE SHALL BE HILTI HIT-HY 200 V3 SYSTEM (ICC-ESR 4868). MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS UNLESS NOTED OTHERWISE. ALTERNATE WILL BE ACCEPTED ONLY IF A SIGNED AND SEALED ENGINEERING ANALYSIS IS PROVIDED FOR THE ALTERNATE. REINFORCING STEEL USED WITH THE ADHESIVE SYSTEM SHALL CONFORM TO ASTM A615, UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE CLEAN, OIL FREE, AND CLEAN OF ALL LOOSE MATERIALS. SEE POST INSTALLED ANCHOR NOTES BELOW FOR ADDITIONAL CONCRETE REQUIREMENTS.
     11. MECHANICAL COUPLERS SHALL BE UNI-AXIAL TYPE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION. SPLICES MADE USING MECHANICAL COUPLERS SHALL BE STAGGERED BY TWICE THE LENGTH OF THE COUPLER.
     12. ALL REINFORCING SHALL BE CONTACT LAP SPLICED OR DOWELED AS FOLLOWS:

#3 BARS	25"	#7 BARS	71"
#4 BARS	33"	#8 BARS	81"
#5 BARS	41"	#9 BARS	91"
#6 BARS	49"	#10 BARS	102"

2. CAST-IN-PLACE CONCRETE
   - A. REINFORCED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI.
   - B. ALL CONCRETE TO HAVE THE FOLLOWING UNIT WEIGHTS (+/- 3 PCF):
     1. NORMAL WEIGHT CONCRETE: PLASTIC = 145 PCF
   - C. ALL CONCRETE EXPOSED TO FREEZING AND THAWING AND DEICER CHEMICALS SHALL HAVE 6% (+1%/-1.5%) AIR ENTRAINMENT. DO NOT AIR ENTRAIN CONCRETE TO BE TROWEL FINISHED.
   - D. PROVIDE CONCRETE COVER FOR REINFORCING AS FOLLOWS:

1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER	2"
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
a. SLABS AND WALLS	3/4"
b. BEAMS AND COLUMNS	1-1/2"

   - E. AT FLOOR DRAINS, LOCALLY SLOPE FLOOR TOWARDS DRAIN. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR DRAIN LOCATIONS.
   - F. UNLESS NOTED OTHERWISE, STRUCTURAL SLABS EXPOSED TO WEATHER SHALL BE SLOPED APPROXIMATELY 1/4 INCH PER FOOT AWAY FROM OCCUPIED SPACE TOWARD FLOOR DRAINS, SCUPPERS, GUTTERS, ETC. FOR EXTERIOR NON-STRUCTURAL FLATWORK (E.G., SIDEWALKS, PAVEMENT) REFERENCE CIVIL DOCUMENTS.
   - G. SEE ARCHITECTURAL DOCUMENTS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, ETC. REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.

DIVISION 5 - METALS

1. STRUCTURAL STEEL
   - A. GENERAL
     1. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING:
        - a. AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
        - b. AISC 303 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
        - c. SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS
     2. ALL STEEL PERMANENTLY EXPOSED TO VIEW SHALL BE DESIGNATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL LEVEL 2.
     3. ALL EXPOSED EXTERIOR STEEL SHALL BE PAINTED PER SPECIFICATIONS.
     4. MATERIALS SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE.

a.	W'S, WT'S, C'S, & MC'S	ASTM A992
b.	PLATES & OTHER SHAPES	ASTM A572, GRADE 50
c.	HSS	ASTM A500, GRADE C
d.	BOLTS	ASTM F3125, GRADE A325 HEAVY HEX HEAD OR GRADE F1852 TWIST-OFF, 3/4" DIAMETER (MIN.)
e.	ANCHOR RODS	ASTM F1554, GRADE 36 WITH A36 WASHERS AND HEAVY HEX NUTS
f.	THREADED ROD	ASTM A36
g.	HEADED STUDS	AWS D1.1, TYPE B
h.	ELECTRODES	MATCHING STRENGTH, 70 KSI MIN.

     6. ALL STEEL BEAMS BEARING ON CONCRETE OR MASONRY SHALL HAVE 8" MINIMUM BEARING, UNLESS NOTED OTHERWISE.
     7. WHERE ITEMS ARE TO BE ANCHORED TO CONCRETE OR MASONRY, EXCEPT AT COLUMN BASEPLATES, USE STANDARD SIZED HOLES IN STEEL MEMBER, UNLESS NOTED OTHERWISE.
     8. AT COLUMN BASE PLATES, PROVIDE PLATE WASHERS PER TABLE 14-2 OF AISC STEEL CONSTRUCTION MANUAL. AT VERTICAL BRACE AND MOMENT FRAME COLUMNS, PLATE WASHERS TO BE FIELD WELDED TO BASE PLATES WITH 3/16-INCH FILLET WELD, ALL AROUND, UNLESS A SHEAR LUG IS PROVIDED.
     9. USE PREQUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND AWS D1.1. NON-PREQUALIFIED JOINTS SHALL BE QUALIFIED PRIOR TO FABRICATION.
   - B. POST-INSTALLED ANCHORS TO CONCRETE AND MASONRY
     1. POST INSTALLED ANCHORS SHALL BE EXPANSION, ADHESIVE, OR SCREW ANCHORS AS INDICATED IN DETAILS, UNLESS NOTED OTHERWISE. ONLY USE EXPANSION ANCHORS WHERE INDICATED, ONLY USE ADHESIVE ANCHORS WHERE INDICATED AND ONLY USE SCREW ANCHORS WHERE INDICATED.
     2. EXPANSION ANCHORS (DO NOT USE MULTIPLE MANUFACTURERS ON THE PROJECT, SEE NOTES BELOW FOR SUBSTITUTIONS), UNO.
        - a. FOR CONCRETE: HILTI KWIK BOLT TZ2 (ICC-ES ESR 4266).
        - b. FOR GROUT FILLED CONCRETE MASONRY: HILTI KWIK BOLT 3 (ICC-ES ESR1385).
     3. ADHESIVE ANCHORS (DO NOT USE MULTIPLE MANUFACTURERS ON THE PROJECT, SEE NOTES BELOW FOR SUBSTITUTIONS), UNO.
        - a. FOR CONCRETE: HILTI HIT-RE 500 V3 SAFE SET SYSTEM ADHESIVE ANCHOR SYSTEM (ICC-ES ESR3814) WITH HAS GRADE 55 CARBON STEEL THREADED ROD OR HILTI HIT-HY 200 V3 SAFE SET SYSTEM (ICC-ES ESR 4868) ANCHOR ADHESIVE WITH HAS GRADE 55 CARBON STEEL THREADED ROD.
        - b. SOLID GROUTED CONCRETE MASONRY: HILTI HIT-HY 270 SAFE SET SYSTEM (ICC-ES ESR4143) ANCHOR ADHESIVE WITH HAS GRADE 55 THREADED RODS.
        - c. HOLLOW MASONRY: HILTI HIT-HY 270 SAFE SET SYSTEM (ICC-ES ESR4143) ANCHOR ADHESIVE WITH HAS GRADE 55 THREADED RODS WITH SCREEN TUBES WHEN ANCHORING INTO HOLLOW MASONRY.
        - d. MULTI-WYTHE MASONRY: HILTI HIT-HY 270 SAFE SET SYSTEM (ICC-ES ESR4144) ANCHOR ADHESIVE WITH HAS GRADE 55 THREADED RODS WITH SCREEN TUBES WHEN ANCHORING INTO MULTI-WYTHE MASONRY.
     4. SCREW ANCHORS (DO NOT USE MULTIPLE MANUFACTURERS ON THE PROJECT, SEE NOTES BELOW FOR SUBSTITUTIONS), UNO:
        - a. FOR CONCRETE: HILTI KWIK HUS EZ SCREW ANCHOR SAFE SET SYSTEM(ICC-ES ESR3027)
     5. WHEN INSTALLING POST INSTALLED ANCHORS:
        - a. THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) SHALL BE FOLLOWED.
        - b. DO NOT CUT EXISTING REINFORCING.
        - c. WHEN INSTALLING IN CONCRETE:
          1. THE MINIMUM CONCRETE DESIGN COMPRESSIVE STRENGTH SHALL MATCH THE ABOVE NOTED COMPRESSIVE STRENGTHS IN THE CONCRETE NOTES SECTION.
          2. FOR POST INSTALLED ADHESIVE ANCHORS, THE CONCRETE SHALL HAVE A MINIMUM AGE OF 21 DAYS AT THE TIME OF INSTALLATION.
          3. FOR POST INSTALLED ADHESIVE ANCHORS, THE CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE AT LEAST 50-DEGREES FAHRENHEIT.
        - d. ADHESIVE USED IN AN ADHESIVE ANCHOR SYSTEM SHALL BE STORED AT THE SERVICE TEMPERATURE RANGE RECOMMENDED BY THE MANUFACTURER.
        - e. ANCHORS TO BE INSTALLED IN ADHESIVE SHALL BE CLEAN, OIL FREE AND FREE OF RUST, PAINT OR OTHER COATINGS.
        - f. ADHESIVE ANCHORS SHALL BE SECURELY PLACED TO PREVENT DISPLACEMENT OR DISTURBANCE WHILE THE ADHESIVE CURES. IF AN ANCHOR IS DISPLACED OR DISTURBED BEFORE A FULL ADHESIVE CURE IT SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
        - g. UNLESS NOTED OTHERWISE, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE SUPPORTING SURFACE WITH A MAXIMUM 6-DEGREE TOLERANCE AS SPECIFIED IN THE ICC-ESR UNLESS NOTED OTHERWISE.
        - h. INSTALL ANCHORS TO ACCOMMODATE THE STANDARD HOLE SIZE IN THE SUPPORTED STEEL MEMBER PER AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. USE PLATE WASHERS WITH A STANDARD SIZE HOLE WELDED TO STEEL MEMBERS WHERE OVERSIZED HOLES MUST BE USED THROUGH THE STEEL MEMBER.
        - i. HOLES SHALL BE DRILLED AND INSTALLED PER THE MPII AS OUTLINED IN THE ESR. WHERE APPLICABLE, INSTALLATION SHALL ALSO FOLLOW PROPER CLEANING PROCEDURE AS INDICATED IN THE MPII AS OUTLINED IN THE ESR. HOLES SHALL BE DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR ROCK DRILL, DO NOT CORE DRILL HOLES.
     6. ALL PERSONNEL INSTALLING ANCHORS SHALL BE TRAINED AND CERTIFIED BY THE ANCHORING SYSTEM MANUFACTURER. CONTRACTOR SHALL SUBMIT CERTIFICATION FROM THE MANUFACTURER ON ALL PERSONNEL. CERTIFICATION BY MANUFACTURER IS VALID FOR ONE YEAR. ALL PERSONNEL INSTALLING ADHESIVE ANCHORS IN A HORIZONTAL OR OVERHEAD CONDITION SHALL BE TRAINED AND CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM FOR SUCH APPLICATIONS. NOTE SOME ANCHORS INSTALLED IN POSITIONS OTHER THAN HORIZONTAL OR OVERHEAD HAVE SUSTAINED LOADS, THESE ANCHORS WILL BE NOTED WITH A (CERT) CALL OUT AFTER THE ANCHOR NOTE. THESE ANCHORS SHALL ALSO BE INSTALLED BY A TRAINED AND CERTIFIED INSTALLER. CONTRACTOR SHALL SUBMIT CERTIFICATION FROM ACI/CRSI ON ALL PERSONNEL IF FAILURES OCCUR AT ANY TIME DURING TESTING OR CONSTRUCTION, THEN PERSONNEL SHALL BE RETRAINED AND RECERTIFIED.
     7. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST IN PLACE ANCHORS.
     8. SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL POST INSTALLED ANCHORS AS REQUIRED BY THE BUILDING CODE AND/OR ICC-ESR. WRITTEN SPECIAL INSPECTION REPORTS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE BY THE SPECIAL INSPECTOR. THE REPORTS SHALL RECORD AND REPORT THE FOLLOWING AS A MINIMUM:
        - a. PRIOR TO AND DURING INSTALLATION OF ANCHORS, INSPECTION AND REPORT SHALL INC

STRUCTURAL GENERAL NOTES

3. METAL DECK
   A. GENERAL
      1. METAL DECK FABRICATION AND ERECTION SHALL COMPLY WITH SDI "CODE OF STANDARD PRACTICE".
      2. METAL DECK SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH ANSI/SDI "STANDARD FOR STEEL DECK" AND "STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK".
      3. DECK SHALL BE CONTINUOUS OVER 3 SPANS, UNLESS NOTED OTHERWISE.
      4. AT SUPPORTS PARALLEL TO THE DECK SPAN, RAISE STEEL SUPPORTS OR PROVIDE SHIMS AT FASTENING POINTS IF THE DECK VALLEY DOES NOT ENGAGE THE SUPPORT.
      5. AT CONTRACTOR'S OPTION, HILTI X-ENP 19 MAY BE USED IN LIEU OF WELDS TO STEEL SUPPORTS WITH BASE STEEL THICKNESS OF 1/4" OR GREATER AND HILTI X-HSN 24 MAY BE USED IN LIEU OF WELDS TO STEEL SUPPORTS WITH BASE STEEL THICKNESS BETWEEN 1/8" AND 3/8". SUBSTITUTION SHALL BE SUCH THAT THE DIAPHRAGM CAPACITY AND STIFFNESS IS EQUAL TO OR GREATER THAN DECK FASTENING INDICATED ON THE DRAWINGS.
      6. METAL DECK ACCESSORIES, INCLUDING BUT NOT LIMITED TO: GIRDER FILLERS, Z-CLOSURES, AND COVER PLATES; THAT ARE INTEGRAL WITH THE FLOOR DIAPHRAGM OR ROOF DIAPHRAGM SHALL BE OF THE SAME MATERIAL, FINISH AND MINIMUM THICKNESS AS THE METAL DECK. ACCESSORIES SHALL BE ANCHORED TO SUPPORTING MEMBERS BY ARC SPOT WELDS OR SELF-DRILLING SCREWS AT 12-INCH MAXIMUM SPACING.
   B. ROOF DECK
      1. ROOF DECK SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH SDI "STANDARD FOR STEEL ROOF DECK" AND "STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK".
      2. ROOF DECK SHALL BE GALVANIZED.
      3. 7/8" CORRUGATED METAL PANEL WITH DESIGN THICKNESS 0.0358" (22 GAGE) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: I_D=0.0415^4/FT, I_N=0.0415^4/FT, S_P=0.0916^3/FT, S_N=0.0916^3/FT, F_Y=50KSI
      4. DO NOT SUPPORT DUCTS, CEILINGS, LIGHTS, PLUMBING, SPRINKLERS, ETC. FROM THE ROOF DECK.
      5. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE WELDED TO SUPPORTS, BOTH PERPENDICULAR AND PARALLEL TO THE DECK, WITH 5/8" DIAMETER PUDDLE WELDS AND FASTENED AT SIDELAPS WITH NO. 10 SCREWS AS FOLLOWS:
         a. 1-1/2" WIDE RIB ROOF DECK:
            1. WELD PATTERN: 36/5
            2. SIDELAP FASTENERS: 2/SPAN, MAXIMUM 18"
         b. AT PERIMETER EDGES PARALLEL TO SUPPORT, WELD DECK TO SUPPORT AT 6" ON CENTER, UNLESS NOTED OTHERWISE.
5. GRATING
   1. GRATING SHALL BE DURAGRID SERIES T1800 FIBERGLASS GRATING.
   2. PROVIDE SADDLE CLIPS AND MACHINE BOLTS PER MANUFACTURER'S RECOMMENDATIONS.

DIVISION 6 - WOOD

1. ROUGH CARPENTRY
   A. GENERAL
      1. ALL LIGHT FRAMED WOOD CONSTRUCTION SHALL BE FASTENED IN ACCORDANCE WITH ICC 2021 INTERNATIONAL BUILDING CODE TABLE 2304.10.2 FASTENING SCHEDULE.
      2. ALL LUMBER IN DIRECT CONTACT WITH WATER, SOIL, CONCRETE, MASONRY, OR PERMANENTLY EXPOSED TO WEATHER SHALL BE PRESSURE TREATED LUMBER.
      3. ALL WOOD SHALL BE STORED ON SITE TO PREVENT WARPING, CUPPING, BOWING, CROOKING, AND TWISTING. USE ONLY MATERIAL THAT IS STRAIGHT. ALL WOOD SHALL BE HELD OFF THE GROUND WITH SACRIFICIAL DUNNAGE BLOCKS.
      4. WOOD CONNECTORS SHALL BE INSTALLED TO PREVENT WOOD FROM SPLITTING OR OTHERWISE DAMAGING EITHER MEMBER.
      5. STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS BEARING AGAINST WOOD.
      6. ALL MEMBER SIZES GIVEN IN THE DRAWINGS ARE NOMINAL DIMENSIONS.
      7. ALL LUMBER IS TO BE GRADE STAMPED AND IS TO CONTAIN GRADING AGENCY, MILL NUMBER OR NAME, GRADE OF LUMBER, SPECIES OR SPECIES GROUPING OR COMBINATION DESIGNATION, AND RULES UNDER WHICH GRADED, WHERE APPLICABLE.
      8. LUMBER SHALL BE PROTECTED FROM THE ELEMENTS UNTIL SUCH TIME IT IS USED IN CONSTRUCTION.
      9. ALL WALL STUDS, JAMB STUDS, AND BEAM SUPPORT STUDS SHALL HAVE ADEQUATE SOLID MEMBERS PLACED BELOW TO CARRY ALL VERTICAL LOADS TO THE FOUNDATION.
   B. MATERIAL
      1. SAWN LUMBER
         a. SAWN LUMBER SHALL BE GRADE STAMPED VISUALLY GRADED WITH MAXIMUM 19% MOISTURE CONTENT AND SHALL MEET THE MINIMUM STRESS REQUIREMENTS PER NDS-2018 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" INCLUDING SUPPLEMENT.
         b. ALL MEMBERS SHALL MEET STRENGTH REQUIREMENTS IN NDS-2018 "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".
         c. JOISTS, RAFTERS, NAILERS, AND BEARING PLATES SHALL BE SOUTHERN YELLOW PINE (SYP), UNLESS NOTED OTHERWISE.
            1. WOOD JOISTS SHALL BEAR ON THE FULL WIDTH OF SUPPORTING MEMBERS (STUD WALLS, BEAMS, NAILERS, ETC.) UNLESS NOTED OTHERWISE.
            2. PROVIDE 1X4 LET-IN BRIDGING, OR CODE APPROVED METAL BRIDGING AT MIDSPAN OF ALL WOOD JOISTS. SPACE LINES OF BRIDGING AT 8'-0" O.C. MAXIMUM.
      2. CONNECTORS AND FASTENERS
         a. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED OR FIRE-RETARDANT TREATED LUMBER OR USED IN EXTERIOR CONDITION SHALL BE GALVANIZED OR STAINLESS STEEL.
         b. METAL CONNECTORS AND ASSOCIATED FASTENERS SHALL MEET THE FOLLOWING MINIMUM STANDARDS:
            1. CONNECTORS — ASTM A653 G90
            2. BOLTS — ASTM A307 (GALV IF REQUIRED)
            3. ANCHOR RODS — ASTM F1554 GR36 (GALV IF REQUIRED)
            4. NAILS AND STAPLES — ASTM F1667 WITH A153 (GALV IF REQUIRED)
         c. FASTENERS UTILIZING DISSIMILAR MATERIALS ARE PROHIBITED.
         d. POWDER DRIVEN FASTENERS SHALL COMPLY WITH ESR-1539. FASTENER INSTALLATION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE MANUFACTURER'S RECOMMENDATIONS. FASTENER HEADS SHALL BE INSTALLED NOMINALLY FLUSH WITH THE OUTER PLY OF THE CONNECTION. SHEATHING AND SUPPORT FRAMING DAMAGED BY OVERDRIVEN FASTENERS SHALL BE REMOVED AND REPLACED.
         e. ALUMINUM FASTENERS AND FLASHING SHALL NOT BE IN CONTACT WITH PRESSURE TREATED LUMBER.
         f. SUBJECT TO COMPLIANCE WITH THE PROJECT REQUIREMENTS, WOOD CONNECTORS, JOIST HANGERS, POST CAPS AND BASES, HOLDOWNS, AND RELATED HARDWARE SHALL BE MANUFACTURED BY ONE OF THE FOLLOWING:
            1. SIMPSON STRONG-TIE COMPANY, INC. PLEASANTON, CA.
            2. MITEK USA, INC. ST. LOUIS, MO.
         g. CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S LATEST RECOMMENDATIONS FOR INSTALLATION OF CONNECTION HARDWARE.
         h. ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH SIMPSON JOIST HANGERS OR APPROVED EQUAL. USE TYPE LU FOR SINGLE 2X'S, TYPE LUS FOR DOUBLE 2X'S, AND TYPE ITS FOR TJI'S. THE CONNECTORS SHALL BE INSTALLED USING FASTENERS SUPPLIED BY THE MANUFACTURER AS REQUIRED FOR THE HANGER TYPE.

LIST OF ABBREVIATIONS

ABOVE FINISH FLOOR	AFF
ADDITIONAL	ADDNL
ALTERNATE	ALT
ANCHOR, ANCHORAGE	ANCH
ANCHOR ROD	AR
ANTHONY POWER BEAM	APB
APPROXIMATE	APPROX
ARCHITECT	ARCH
ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	AESS
BACK TO BACK	BB
BALANCE	BAL
BASEMENT	BSMT
BEAM	BM
BEARING	BRG
BENT	BT
BETWEEN	BTWN
BLOCKING	BLKG
BOTTOM	BOT
BOTTOM OF	B/
BOTTOM OF CONCRETE	BC
BOTTOM OF METAL DECK	BMD
BOTTOM OF PIER	BP
BOTTOM OF WALL	BW
BRICKLEDGE	BL
BRIDGING	BRDG
BUILDING	BLDG
CAMBER	c OR C
CANTILEVER	CANT
CAST IN PLACE	CIP
CENTER	CTR
CENTER TO CENTER	CC
CENTERLINE	CL
CLEAR	CLR
COLD-FORMED	CF
COLD-FORMED METAL FRAMING	CFMF
COLD-FORMED STEEL	CFS
COLUMN, COLUMNS	COL
COLUMN STRIP	CS
CONCRETE	CONC
CONCRETE MASONRY UNIT	CMU
CONNECT	CONN
CONNECTION	CONX
CONSTRUCTION	CONST
CONSTRUCTION JOINT OR CONTROL JOINT	CJ
CONTINUE, CONTINUOUS	CONT
CONTRACTOR	CONTR
COORDINATE	COORD
CURTAIN WALL	CW
DEAD LOAD	DL
DEGREE	DEG
DETAIL	DTL
DIAGONAL	DIAG
DIAMETER	DIA
DIAMETER OF REBAR	DB
DOWEL	DWL
DOWN	DN
DRAWING	DWG
EACH	EA
EACH END	EE
EACH FACE	EF
EACH SIDE	ES
EACH WAY	EW
ECCENTRICALLY BRACED FRAME	EBF
EDGE NAILING	EN
EDGE OF SLAB	EOS
ELECTRICAL	ELEC
ELEVATION	EL
ELEVATOR	ELEV
EMBEDMENT	EMBED, EMB
ENGINEER	ENG
ENGINEER OF RECORD	EOR
EQUAL	EQ
EXISTING	EXIST OR (E)
EXPANSION	EXP
EXPANSION JOINT	EJ
EXTERIOR	EXT
FABRICATOR	FAB
FACE OF BRICK	FOB
FAR FACE	FF
FAR SIDE	FS
FIELD VERIFY	FV
FINISH, FINISHED	FIN
FINISH FLOOR ELEVATION	FFE
FIRE TREATED	F.T.
FLANGE	FLG
FLOOR	FLR
FLOOR DRAIN	FD
FOOTING	FTG
FOUNDATION	FDN
FUTURE	FUT OR (F)
GALVANIZED	GALV
GAUGE	ga, GA
GENERAL	GEN
GIRDER TRUSS	GT
GLUE-LAMINATED BEAM	GLB
GRADE	GR
GRADE BEAM	GB
HANGER	HGR
HEADED	HD
HEADER	HDR
HEIGHT	HT
HIGH POINT	HP
HOLLOW CLAY TILE	HCT
HOOK	HK
HORIZONTAL	HOR
INFORMATION	INFO
INSIDE DIAMETER	ID
INSIDE FACE	I.F.
INTERIOR	INT
INTERMEDIATE MOMENT FRAME	IMF
JOINT	JT
JOIST	JST
JOIST SUBSTITUTE	JS
KIP, KIPS	k OR K
KNEE BRACE	KB
LAMINATED STRAND LUMBER	LSL
LAMINATED VENEER LUMBER	LVL
LIGHT	LT
LIVE LOAD	LL
LOCATION	LOC
LONG	LG
LONG LEG HORIZONTAL	LLH
LONG LEG OUT	LLO
LONG LEG VERTICAL	LLV
LONG SIDE VERTICAL	LSV
LONG SIDE HORIZONTAL OR LONG SLOTTED HOLE(S)	LSH
LOW POINT	LP
MANUFACTURER	MFR
MASONRY	MAS
MAXIMUM	MAX
MECHANICAL	MECH
MEZZANINE	MEZZ
MIDDLE	MID
MIDDLE STRIP	MS
MINIMUM	MIN
MISCELLANEOUS	MISC
NEAR FACE	NF
NEAR SIDE	NS
NEW	(N)
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
ON CENTER	oc
OPENING	OPNG
OPEN WEB TRUSS	OWT
OPPOSITE	OPP
OPPOSITE HAND	OPPHD
ORDINARY CONCENTRICALLY BRACED FRAME	OCBF
ORDINARY MOMENT FRAME	OMF
OUT TO OUT	OO
OUT OF PLANE	OOP
OUTSIDE DIAMETER	OD
OUTSIDE FACE	O.F.
OVERSIZED HOLE(S)	OVH
PARALLEL STRANDED LUMBER	PSL
PIER CAP, PILE CAP	PC
PILASTER	PIL
PLACES	PLCS
PLATE	PL
PLUMBING	PLMB
PLYWOOD	PLYWD
POINT	PT
POST-TENSIONED	P-T
POUND PER SQUARE FOOT	PSF
POUND PER SQUARE INCH	PSI
POWDER ACTUATED FASTENER	PAF
PRECAST	P/C
PRE-ENGINEERED METAL BUILDING	PEMB
PRE-ENGINEERED WOOD TRUSS	PWT
PREFABRICATED	PREFAB
PRESSURE TREATED LUMBER	PTL
QUANTITY	QTY
RADIUS	RAD
REFER, REFERENCE	REF
REINFORCING OR REINFORCEMENT	REINF
REQUIRED	REQD
ROOF TOP UNIT	RTU
SCHEDULE	SCHED
SECTION	SECT
SEISMIC LOAD RESISTING SYSTEM	SLRS
SHEAR WALL	SW
SHEATHING	SHTHG
SHEET	SHT
SHEET METAL	SHTMTL
SHORT LEG OUT	SLO
SHORT SIDE HORIZONTAL OR SHORT SLOTTED HOLE(S)	SSH
SIMILAR	SIM
SLAB ON GROUND	SOG
SLIP CRITICAL	SC
SPACE	SPA
SPECIAL	SP
SPECIAL CONCENTRICALLY BRACED FRAME	SCBF
SPECIAL MOMENT FRAME	SMF
SPECIFICATIONS	SPEC
SQUARE	SQ
STAINLESS STEEL	SS
STANDARD	STD
STEEL	STL
STIFFENER	STIFF
STRUCTURAL	STRUC
STRUCTURAL ENGINEER OF RECORD	SEOR
SYMMETRICAL	SYM
THICK, THICKNESS	THK OR T
THREAD, THREADED	THD
TIE BEAM	TB
TO BE REMOVED	TBR
TOP & BOTTOM	T&B
TOP OF	T/
TOP OF CONCRETE	TC
TOP OF FOOTING	TF
TOP OF MASONRY	TM
TOP OF PIER, PILASTER	TP
TOP OF PIER CAP, PILE CAP	TPC
TOP OF STEEL	TS
TOP OF WALL	TW
TREAD	T OR TR
TYPICAL	TYP
UNLESS NOTED OTHERWISE	UNO
VERTICAL BRACE	VB
VERTICAL, VERTICALLY	VT OR VERT
VERIFY IN FIELD	VIF
WELDED WIRE REINFORCING	WWR
WINDOW	WDW
WITH	w/
WOOD	WD
WORKING POINT	WP
WATERSTOP, WATERSEAL	WS
X-BRACING	X-BR

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SPECIAL INSPECTION TABLES

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

GENERAL
The Owner shall engage and employ a qualified special inspection agency or agencies to conduct special inspections of structural work as required by chapter 17 of the 2018 International Building Code and as delineated below. Agencies that are considered qualified and acceptable to act as special inspectors will be those acceptable to the building official of the jurisdiction that grants the building permit and the owner.

SPECIAL INSPECTION REPORT REQUIREMENTS
Special Inspectors shall keep records of inspections. The special inspector shall furnish inspection reports to the Building Official, Owner, Architect, Structural Engineer, and Contractor. Reports shall indicate that the structural work inspected was done in conformance to approved Contract Documents. Discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official, Owner, Architect, and Structural Engineer prior to the completion of that phase of work. A final report of inspections documenting required special inspections of structural work and correction of any discrepancies noted in the inspections shall be submitted at a point in time agreed upon by the Owner and the Building Official prior to the start of work.

REQUIRED SPECIAL INSPECTIONS
The following types of structural work require special inspections. Refer to individual Specification Sections for specific testing and inspecting requirements. Continuous inspection is the full-time observation of work by a qualified special inspector who is present in the area where the work is being performed. Periodic special inspection is the part-time or intermittent observation of work by a qualified special inspector who is present in the area where the work has been or is being performed and at the completion of the work.

CONCRETE CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of steel reinforcement, including size, quantity and placement.		X	
2. Reinforcing bar welding:			
a. Verify weldability of reinforcing bars other than ASTM A706.		X	
b. Inspect single-pass fillet welds, maximum 5/16"; and		X	
c. Inspect all other welds.	X		
3. Inspection of anchor rods, headed bolts, headed studs, shear stud shear reinforcing and other embedded items prior to and during placement of concrete.	X		
4. Inspection of anchors installed in hardened concrete.			See "Post Installed Anchors" table
5. Verification of use of required design mixture.		X	
6. Testing of slump, air content, and temperature of concrete at the time fresh concrete is sampled to fabricate specimens for strength tests.	X		Frequency of test per specifications.
7. Inspection of concrete placement, including conveying and depositing.	X		
8. Inspection of curing procedures and maintenance of curing temperatures.		X	
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	X		
b. Grouting of bonded prestressing tendons in the seismic force resisting system.	X		
10. Erection of precast concrete members.		X	
11. Verification of concrete strength before removal of shores and forms from beams and slabs.		X	
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		X	
13. Verification that approved shop drawings are being used on site.		X	

WOOD CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Inspection of field gluing operations of elements of wind and seismic force resisting systems.	X		
2. Verification of nailing, bolting, anchoring and other means of attachment within the wind and seismic force resisting systems.		X	
3. Verification of all other connections.		X	
4. Verification of the use of proper materials. Materials shall be identified by the certifying trade labels or grade stamps.		X	
5. Verification of member sizes. Note any warped, cupped, twisted or damaged members.		X	
6. Verification of the use of treated wood members. In addition, verify connectors used in contact with treated members meet the proper finish requirements.		X	
7. Review of pre-engineered trusses. Note that trusses were fabricated per a certified manufacturer, proper storage methods, bracing installed per approved shop drawings, sheathing attachment and connectors.		X	Additional inspections per "Wood Trusses" table
8. Inspection of fabrication process of other prefabricated wood structural elements and assemblies. Verification of the use of proper materials, member sizes and connections.		X	

SOILS

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X	
2. Verify excavations are extended to proper depth and have reached proper material.		X	
3. Perform classification and testing of compacted fill materials.		X	
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X		
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.		X	

WELDED STEEL CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection tasks prior to welding:			
a. Welding procedure specifications (WPS) available.	X		
b. Manufacturer certifications for welding consumables available.	X		
c. Material identification (type/grade).		X	
d. Welder identification system.		X	
e. Fit-up of groove welds (including joint geometry): • Joint preparation • Dimensions (alignment, root opening, root face, bevel) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location) • Backing type and fit (if applicable)		X	
f. Configuration and finish of access holes.		X	
g. Fit-up of fillet welds: • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)		X	
h. Check welding equipment.		X	
2. Inspection tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables: • Packaging • Exposure control		X	
c. No welding over cracked tack welds.		X	
d. Environmental conditions: • Wind speed within limits • Precipitation and temperature		X	
e. WPS followed: • Settings on welding equipment • Travel speed • Selected welding materials • Shielding gas type/flow rate • Preheat applied • Interpass temperature maintained (min/max) • Proper position (F, V, H, OH)		X	
f. Welding techniques: • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements		X	
3. Inspection tasks after welding:			
a. Welds cleaned.		X	
b. Size, length and location of welds.	X		
c. Welds meet visual acceptance criteria: • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld profiles • Weld size • Undercut • Porosity	X		
d. Arc strikes.	X		
e. Visually inspect the web k-area for cracks within 3" of doubler plates, continuity plates and stiffeners welded in the k-area.	X		
f. Placement of reinforcing or contouring fillet welds (if required).	X		
g. Backing removed and weld tabs removed (if required).	X		
h. Repair activities.	X		
i. Document acceptance or rejection of welded joint or member.	X		

STEEL DECKING CONSTRUCTION

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	PERFORM FOR EACH STEEL ELEMENT	OBSERVE ON A RANDOM BASIS	
1. Inspection or execution tasks prior to deck placement:			
a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness.		X	
b. Document acceptance or rejection of deck & deck accessories.		X	
c. Confirm approved shop drawings are being used in field.	X		
2. Inspection or execution tasks after deck placement:			
a. Verify compliance of deck and all deck accessories installation with construction documents.		X	
b. Verify deck materials are represented by the mill certifications that comply with the construction documents.		X	
c. Document acceptance or rejection of installation of deck and deck accessories.		X	
3. Inspection or execution tasks prior to welding:			
a. Welding procedure specifications (WPS) available.		X	
b. Manufacturer certifications for welding consumables available.		X	
c. Material identification (type/grade).		X	
d. Check welding equipment.		X	
4. Inspection or execution tasks during welding:			
a. Use of qualified welders.		X	
b. Control and handling of welding consumables.		X	
c. Environmental conditions (wind speed, moisture, temperature)		X	
d. WPS followed.		X	
5. Inspection or execution tasks after welding:			
a. Verify size and location of welds, including support, sidelap, and perimeter welds.		X	
b. Welds meet visual acceptance criteria.		X	
c. Verify repair activities.		X	
d. Document acceptance or rejection of welds.		X	
6. Inspection or execution tasks prior to mechanical fastening:			
a. Manufacturer installation instructions available for mechanical fasteners.		X	
b. Proper tools available for fastener installation.		X	
c. Proper storage for mechanical fasteners.		X	
7. Inspection or execution tasks during mechanical fastening:			
a. Fasteners are positioned as required.		X	
b. Fasteners are installed in accordance with manufacturer's instructions.		X	
8. Inspection or execution tasks after mechanical fastening:			
a. Check spacing, type, and installation of support fasteners.		X	
b. Check spacing, type, and installation of sidelap fasteners.		X	
c. Check spacing, type, and installation of perimeter fasteners.		X	
d. Verify repair activities.		X	
e. Document acceptance or rejection of mechanical fasteners.		X	

POST INSTALLED ANCHORS TO CONCRETE AND MASONRY

SPECIAL INSPECTION ITEM	TYPE OF INSPECTION		REMARKS
	CONTINUOUS	PERIODIC	
1. Use of proper anchor system and manufacturer.		X	
2. Review of installer's qualifications including certification by anchor manufacturer.		X	* See Note 1
3. Anchor installation process as noted in general notes.			* See Note 2
4. Verification of supporting material's condition.		X	
5. Proof testing as outlined in general notes.		X	
6. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X		
7. Mechanical anchors and adhesive anchors not defined in Note 6.		X	

* Remark Notes:
1. Inspector shall be familiar with anchor manufacturer's written installation procedure and ESR report.
2. Refer to manufacturer's ESR for type of inspection periodic vs. continuous.

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6-29-2026

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PROJECT # 2300228
ASSET # 5012011017

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SPECIAL INSPECTIONS

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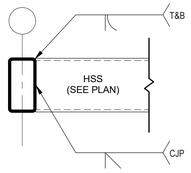
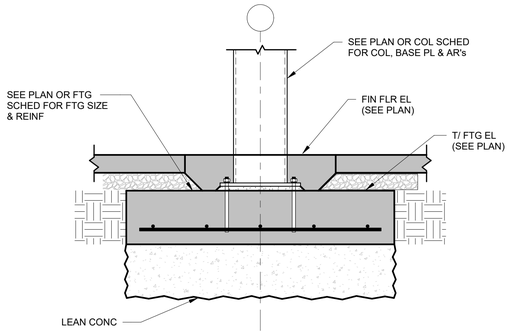
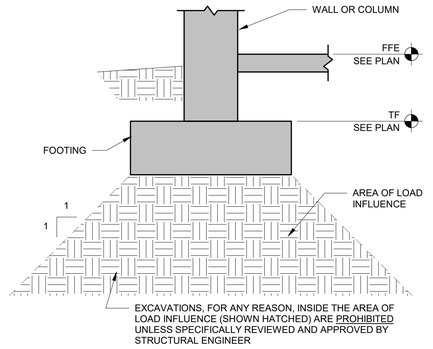


3 S-103 TYPICAL HSS MOMENT CONNECTION AT HSS BEAM/COLUMN DETAIL
NTS

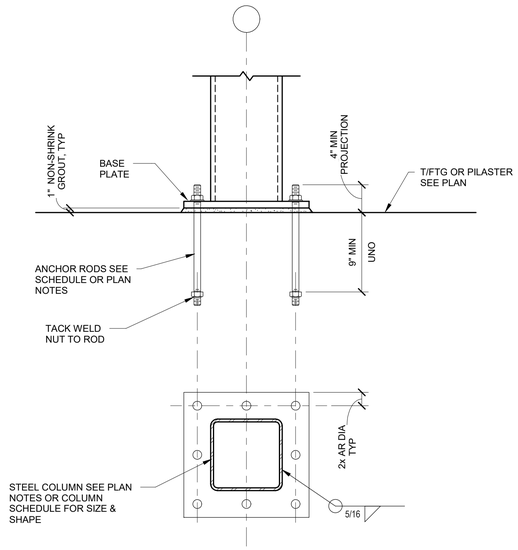


EXCAVATE TO SUITABLE BEARING STRATUM AND PROVIDE LEAN CONCRETE (500 PSI, MIN) OR COMPACTED ENGINEERED FILL IF BOTTOM OF FOOTING EXCAVATION DOES NOT PROVIDE REQUIRED BEARING STRENGTH. CONFIRM SUITABLE BEARING ELEVATION WITH GEOTECHNICAL ENGINEER.

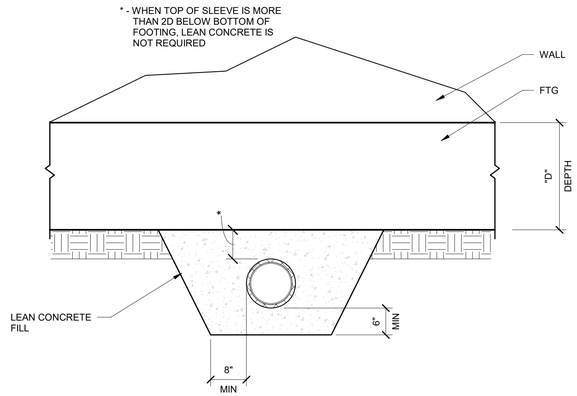
2 S-103 TYPICAL FOOTING OVEREXCAVATION DETAIL
NTS



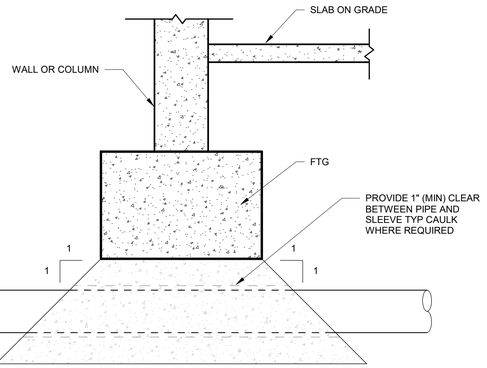
1 S-103 TYPICAL PROHIBITED EXCAVATIONS AT FOUNDATION
NTS

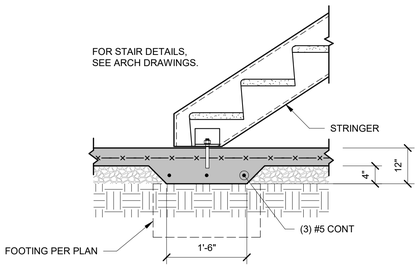


6 S-103 TYPICAL HSS COLUMN BASE PLATE DETAIL
NTS

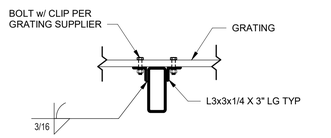


5 S-103 TYPICAL FOOTING DETAIL WHERE PLUMBING PASSES BELOW FOOTING
3/4" = 1'-0"

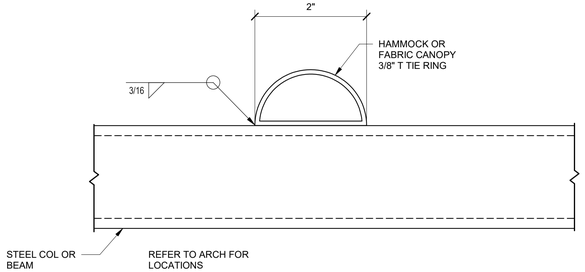




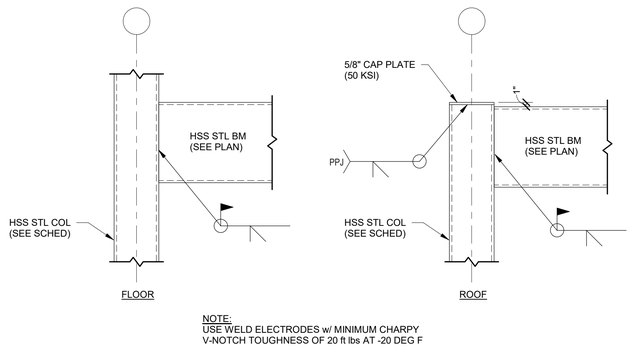
4 S-103 TYPICAL STAIR STRINGER AT SLAB ON GRADE DETAIL
NTS



10 S-103 TYPICAL GRATING TO BEAM CONNECTION DETAIL
3/4" = 1'-0"

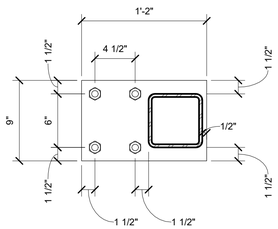


9 S-103 TYPICAL RING ATTACHMENT TO STEEL
NTS



NOTE:
USE WELD ELECTRODES w/ MINIMUM CHARPY
V-NOTCH TOUGHNESS OF 20 ft lbs AT -20 DEG F

8 S-103 TYPICAL MOMENT CONNECTION AT HSS COLUMN DETAIL
NTS



7 S-103 BASEPLATE
1 1/2" = 1'-0"

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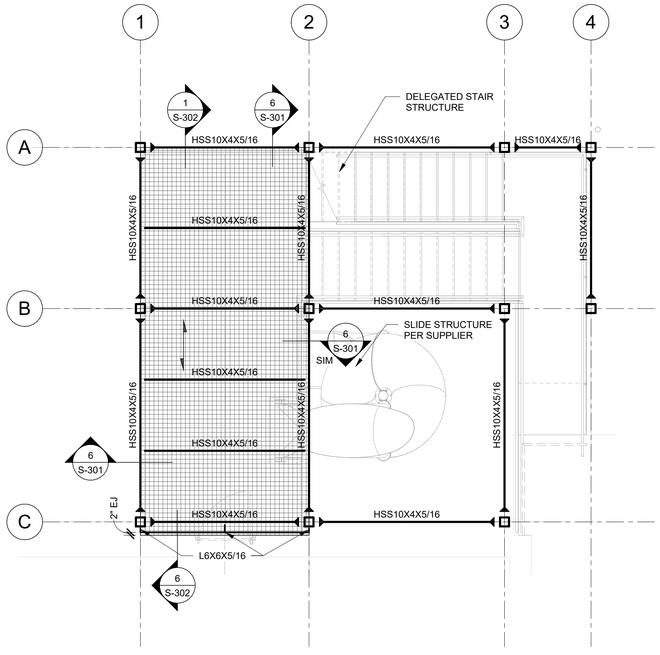
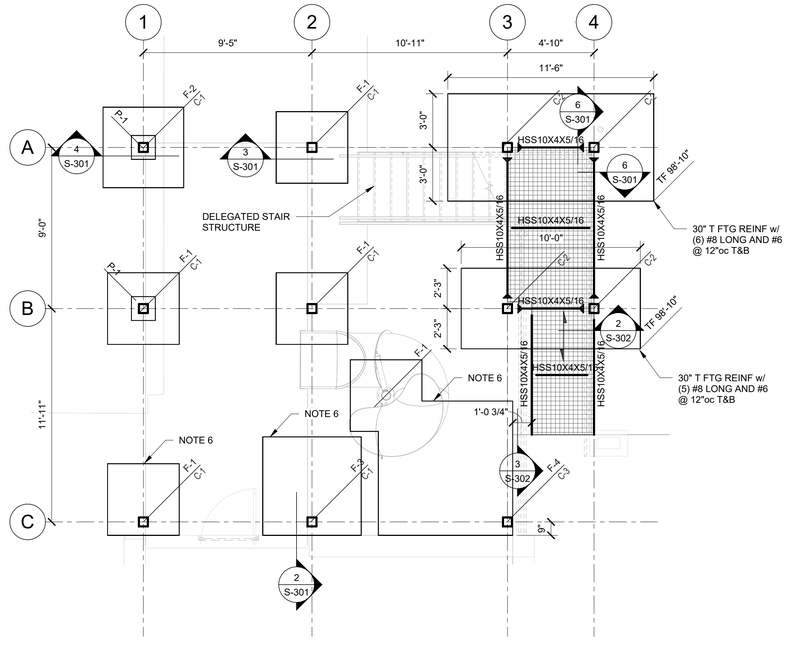


2 S-201 LEVEL S2 (HEALTH CENTER)
1/4" = 1'-0"

NOTES:
1. TOP OF STEEL EL = 112'-8 1/2", UNO.
2. ▶ DENOTES MOMENT CONNNECTION PER 8/S103.
3. ⟶ INDICATES DIRECTION OF DECK OR BAR GRATING SPAN.
4. ▭ INDICATES DURAGLASS SERIES T1800 FIBERGLASS BAR GRATING, TYP.
5. ALL BEAMS WITH BOLTED CONNECTIONS TO RECEIVE 1/2" WEEP HOLE ON THE UNDERSIDE OF THE BEAM AT MIDSPAN.



1 S-201 LEVEL S1 (PLAYGROUND)
1/4" = 1'-0"

NOTES:
1. FINISHED FLOOR SLAB EL IS 100'-0", UNO.
2. TOP OF STEEL EL = 105'-8 1/2"
3. SLAB ON GROUND IS TO BE BY CIVIL.
4. T/F = 99'-0", UNO.
5. CONTRACTOR SHALL COORDINATE UNDERGROUND UTILITY LINES WITH PLACEMENT OF FOOTINGS. DO NOT ALLOW UTILITIES OR EXCAVATION FOR UTILITIES TO UNDERMINE THE FOOTINGS. SEE TYPICAL DETAILS.
6. CONTRACTOR TO FIELD VERIFY BOTTOM OF EXISTING FOOTING ELEVATIONS. EXTEND BOTTOM OF NEW FTG TO BOT OF EXISTING WHILE MAINTAINING FROST PROTECTION AT EXTERIOR OF BUILDING.
7. ▶ DENOTES MOMENT CONNNECTION PER 8/S103.
8. T/PIL = 100'-4", UNO.
9. ⟶ INDICATES DIRECTION OF DECK OR BAR GRATING SPAN.
10. ▭ INDICATES DURAGRID SERIES T1800 FIBERGLASS GRATING, TYP.
11. ALL BEAMS WITH BOLTED CONNECTIONS TO RECEIVE 1/2" WEEP HOLE ON THE UNDERSIDE OF THE BEAM AT MIDSPAN.

FOOTING SCHEDULE

MARK	SIZE	REINF EW, BOT - UNO	REMARKS
F-1	4'-0"x4'-0"x18"	(4) #6, T&B	
F-2	4'-6"x4'-6"x18"	(6) #5, T&B	
F-3	5'-6"x5'-6"x18"	(6) #6, T&B	
F-4	7'-6"x7'-6"x18"	(8) #7, T&B	

STEEL COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHOR BOLTS	REMARKS
C-1	HSS6X6X3/8	3/4"x12"x1'-0"	(4) 3/4" DIA x 9" EMBED	
C-2	HSS6X6X3/8	3/4"x12"x1'-0"	(4) 3/4" DIA x 28" EMBED	
C-3	HSS6X6X3/8	1"x14"x0'-9"	(4) 3/4" DIA x 9" EMBED	SEE 7/S103
C-4	HSS3X3X1/4	3/8"x7"x7"	(4) 1/2"x3" LAG SCREW	

CONCRETE PILASTER SCHEDULE

NOTES:
1. SPACE TOP (3) TIES @ 4"oc, BALANCE @ 8"oc.
2. PROVIDE DOWELS INTO FOUNDATION. MATCH VERTICAL REINFORCEMENT.

MARK	SIZE	VERT REINF	TIES - UNO	TYPE	REMARKS
P-1	16x16	(8) #6	HOOK DWL INTO FTG		

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LEVELS S1 & S2

SHEET NUMBER:
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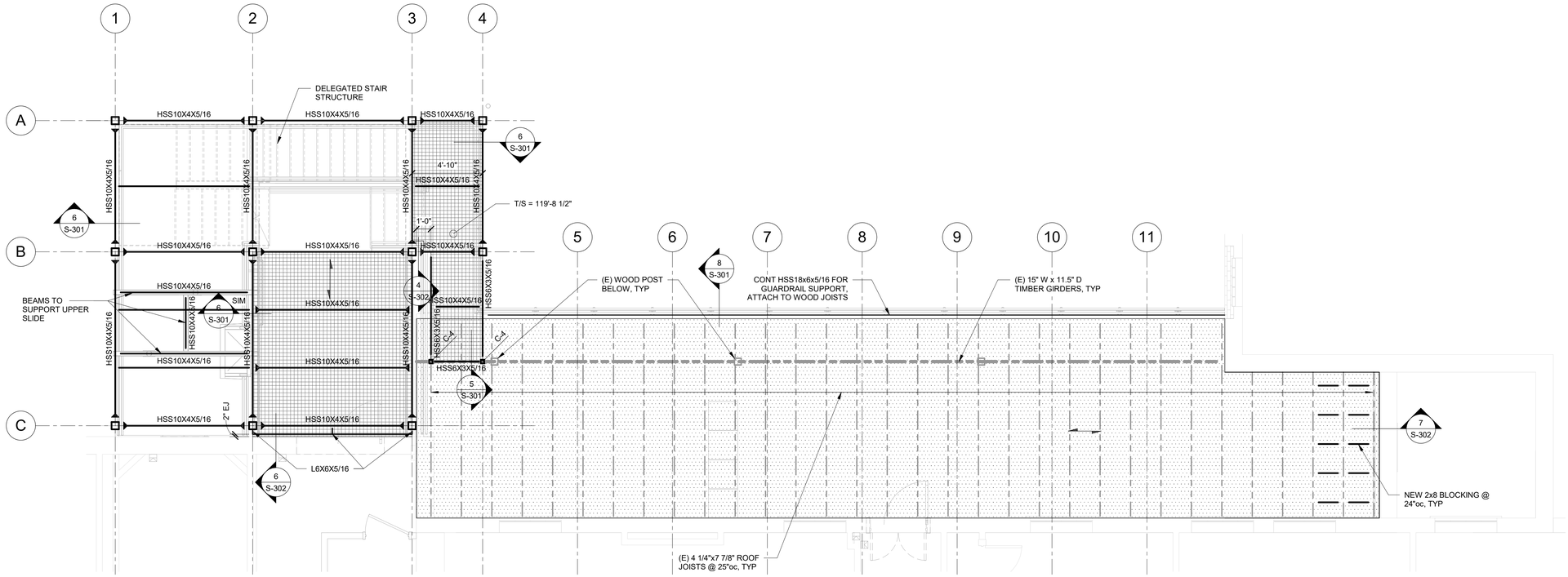

1 S-202 LEVEL S3 (E DORM)
1/4" = 1'-0"

NOTES:
1. TOP OF STEEL EL = 122'-7 1/2", UNO.
2. INDICATES DIRECTION OF DECK OR BAR GRATING SPAN.
3. INDICATES DURAGRID SERIES T1800 FIBERGLASS GRATING, TYP.
4. INDICATES (N) 3/4" TONGUE & GROOVE PLYWOOD DECK.
5. ▶ DENOTES MOMENT CONNECTION PER 8/S103.
6. ALL BEAMS WITH BOLTED CONNECTIONS TO RECEIVE 1/2" WEEP HOLE ON THE UNDERSIDE OF THE BEAM AT MIDSPAN.

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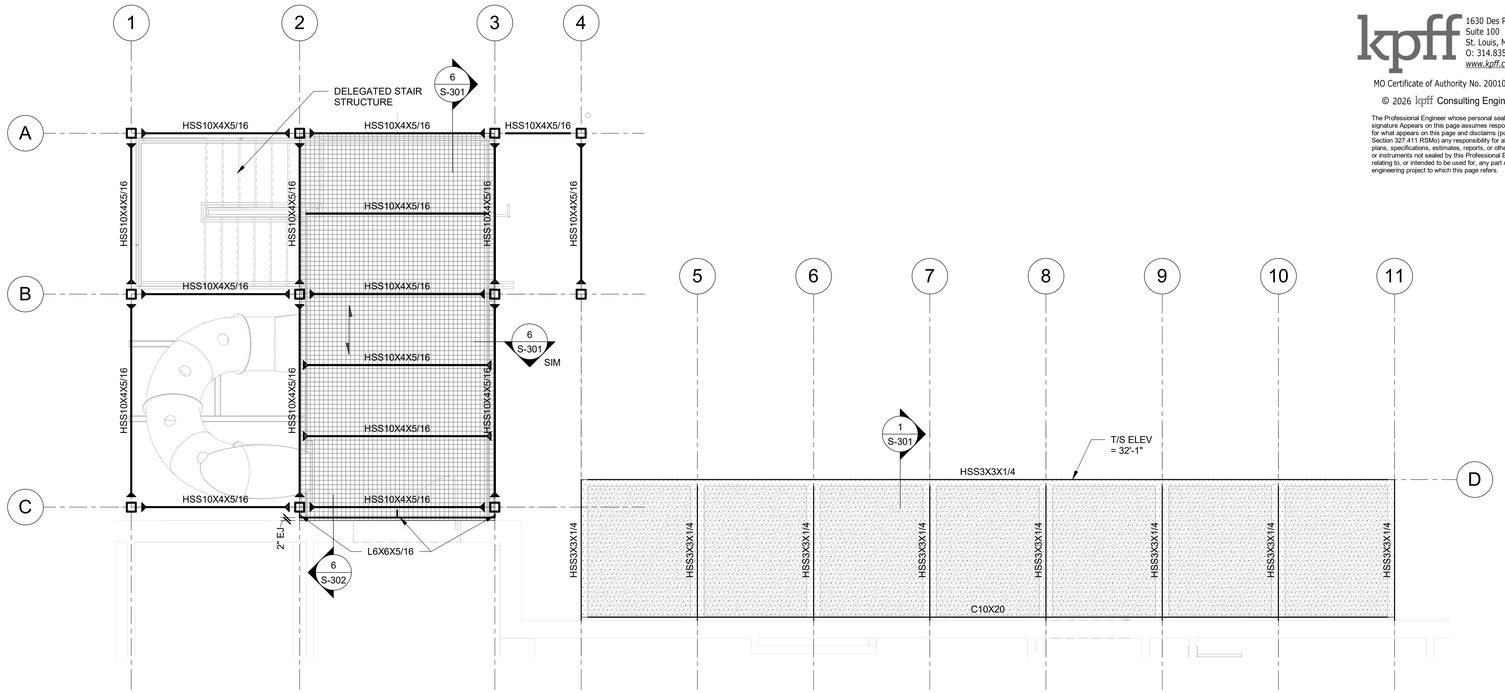
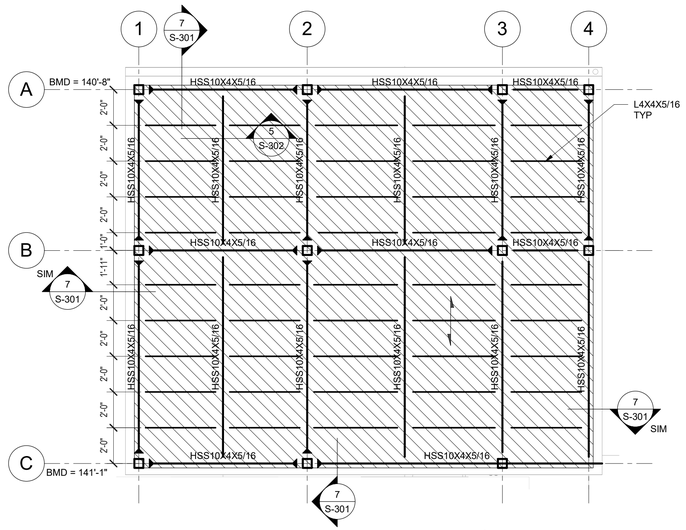


1 S-203 LEVEL S4 (F DORM)
1/4" = 1'-0"

NOTES:
1. TOP OF STEEL EL = 131'-11 1/2", UNO.
2. INDICATES 1 1/2" FIBERGLASS GRATING, TYP.
3. INDICATES (N) CANVAS CANOPY PER ARCH.
4. INDICATES DIRECTION OF DECK OR BAR GRATING SPAN.
5. DENOTES MOMENT CONNECTION PER 8/S103.
6. ALL BEAMS WITH BOLTED CONNECTIONS TO RECEIVE 1/2" WEEP HOLE ON THE UNDERSIDE OF THE BEAM AT MIDSPAN.



2 S-203 STAIR ROOF PLAN
1/4" = 1'-0"

NOTES:
1. BOTTOM OF METAL DECK EL (BMD) PER PLAN.
2. ROOF DECK TO BE 7/8" 22 GA CORRUGATED METAL PANEL. SEE GENERAL NOTES FOR ATTACHMENT TO SUPPORTING STRUCTURE.
3. INDICATES DIRECTION OF DECK SPAN.
4. DENOTES MOMENT CONNECTION PER 8/S 104.
5. ALL BEAMS WITH BOLTED CONNECTIONS TO RECEIVE 1/2" WEEP HOLE ON THE UNDERSIDE OF THE BEAM AT MIDSPAN.

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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MARC A. FRIEDMAN
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PROFESSIONAL ENGINEER
6-29-2026

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MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

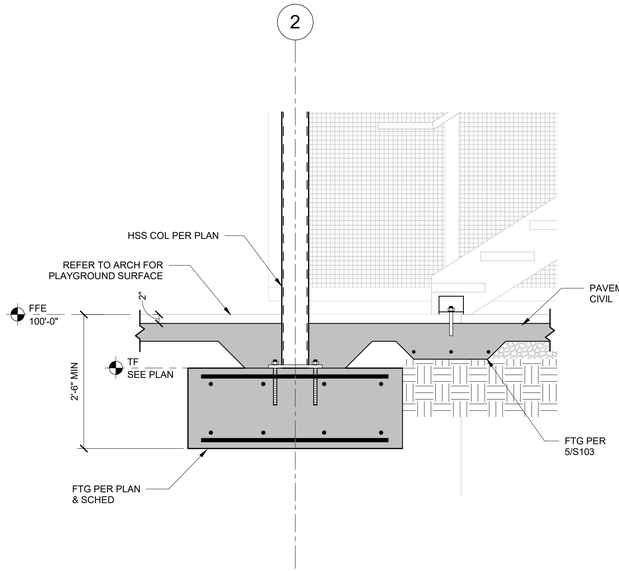
PROJECT # 2300228
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

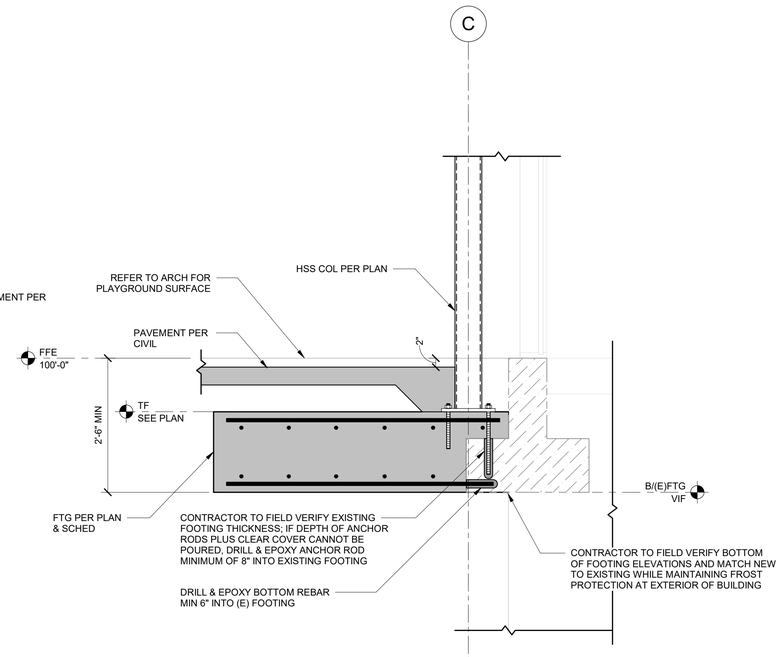
CAD DWG FILE:
DRAWN BY: AMM
CHECKED BY: MAF
DESIGNED BY: MAF

SHEET TITLE:
LEVEL S4 & ROOF

SHEET NUMBER:
S-203



3 S-301 SECTION 3/4" = 1'-0"



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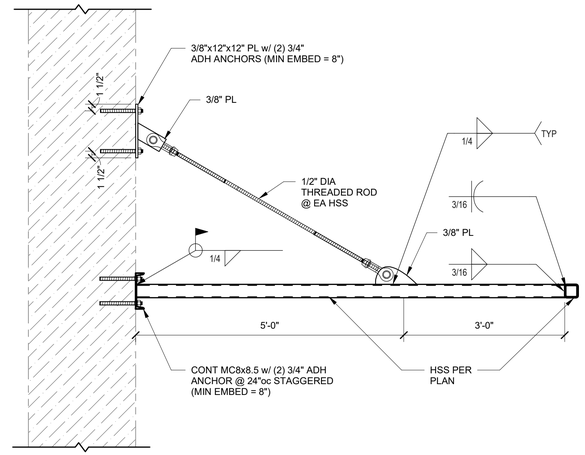

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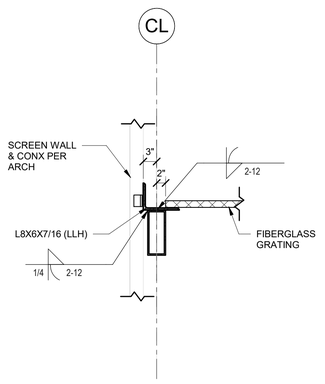

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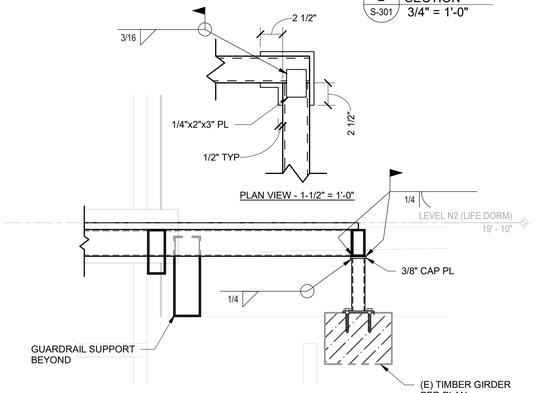

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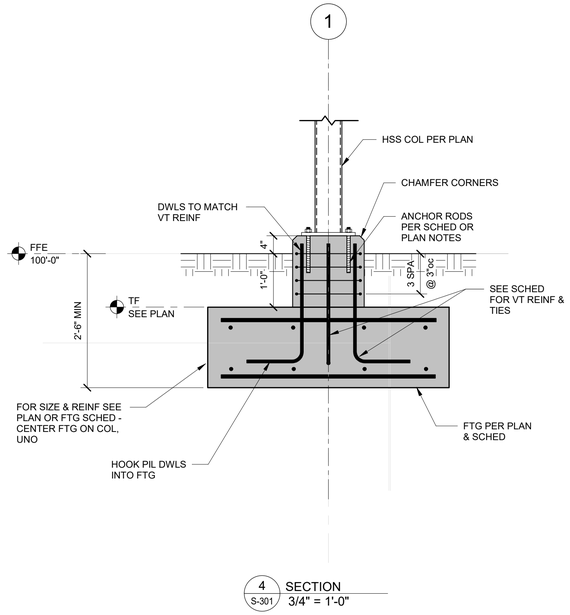

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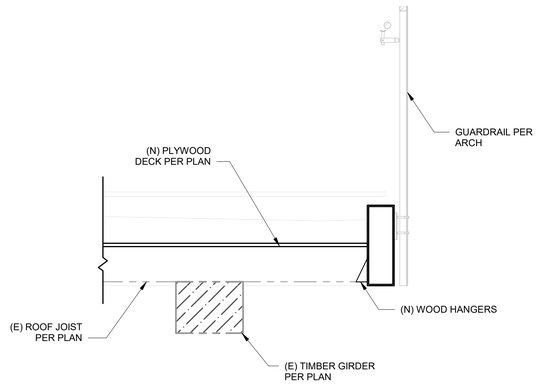

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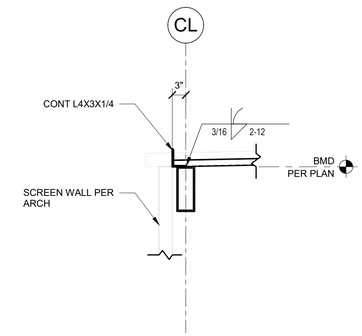

7 S-301 SECTION 3/4" = 1'-0"

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ASSET # 5012011017

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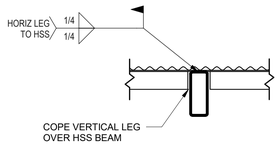
CAD DWG FILE:
DRAWN BY: AMM
CHECKED BY: MAF
DESIGNED BY: MAF

SHEET TITLE:
SECTIONS & DETAILS

SHEET NUMBER:
S-301



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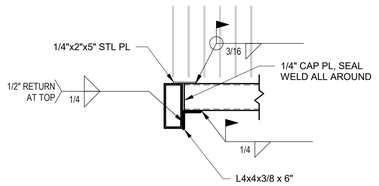

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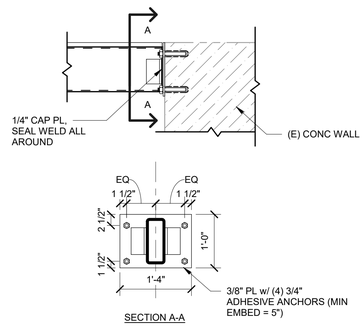

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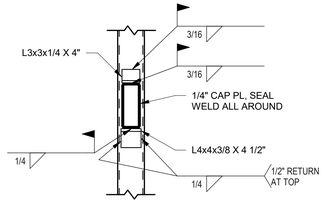

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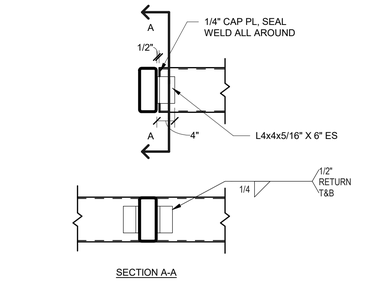
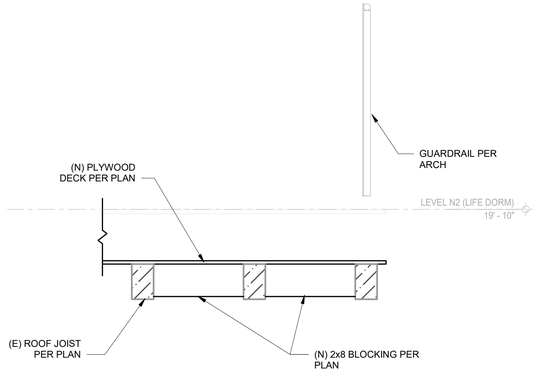
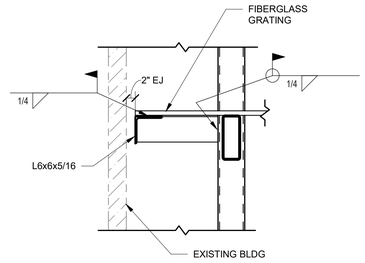


1 TYPICAL HSS TO HSS BEAM SHEAR CONNECTION S-302 3/4" = 1'-0"



7 SECTION S-302 3/4" = 1'-0"



6 SECTION S-302 3/4" = 1'-0"

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MARC A. FRIEDMAN
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SAINT LOUIS, MO 63110

PROJECT # 2300228
ASSET # 5012011017

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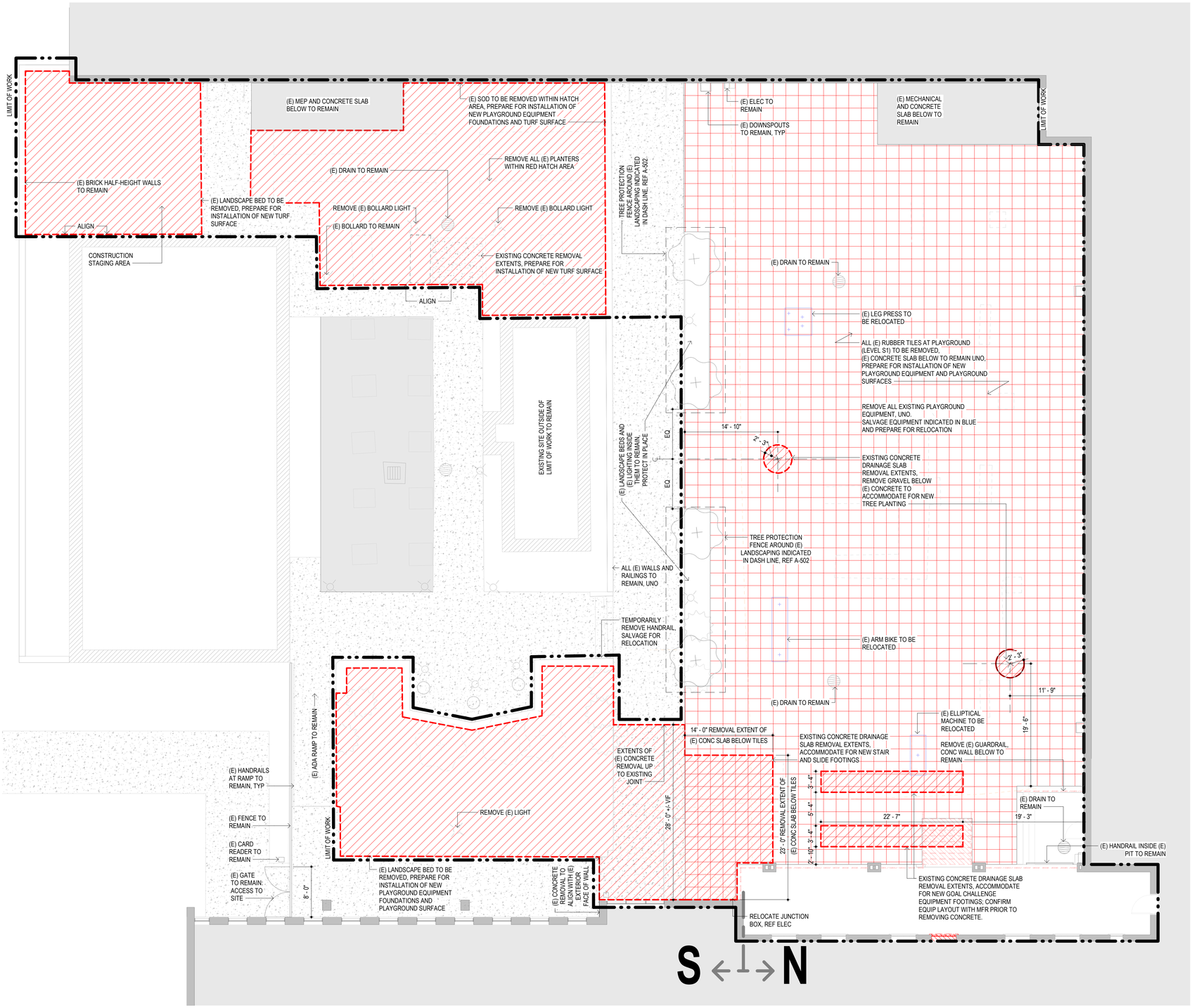
CAD DWG FILE:
DRAWN BY: AMM
CHECKED BY: MAF
DESIGNED BY: MAF

SHEET TITLE:
SECTIONS & DETAILS

SHEET NUMBER:
S-302



1 SELECTIVE REMOVAL SITE PLAN
A-100 1/8" = 1'-0"

1/8" = 1'-0" 0 3' 6' 12' 18'

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29 June 2026

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PROJECT # E2332-01
ASSET # 5012011017

REVISION:
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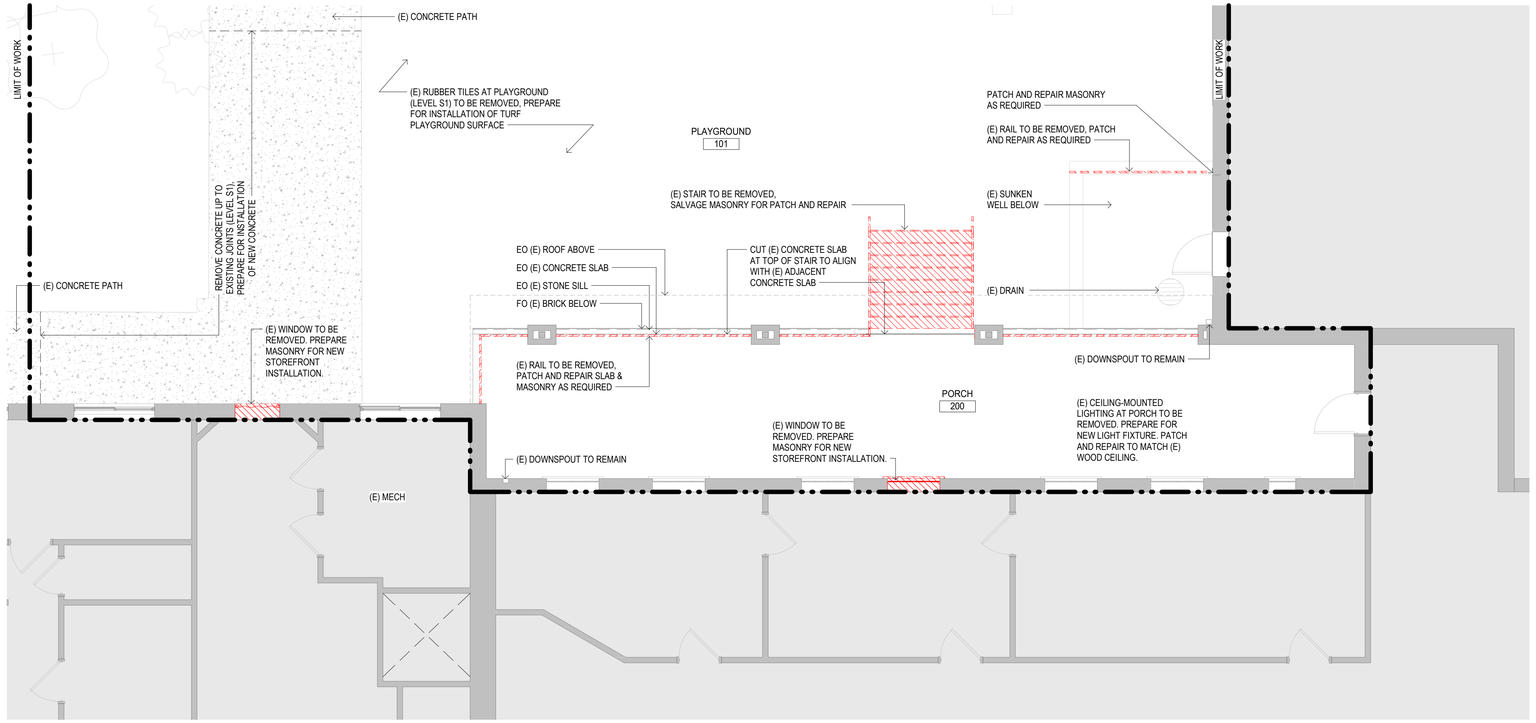
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

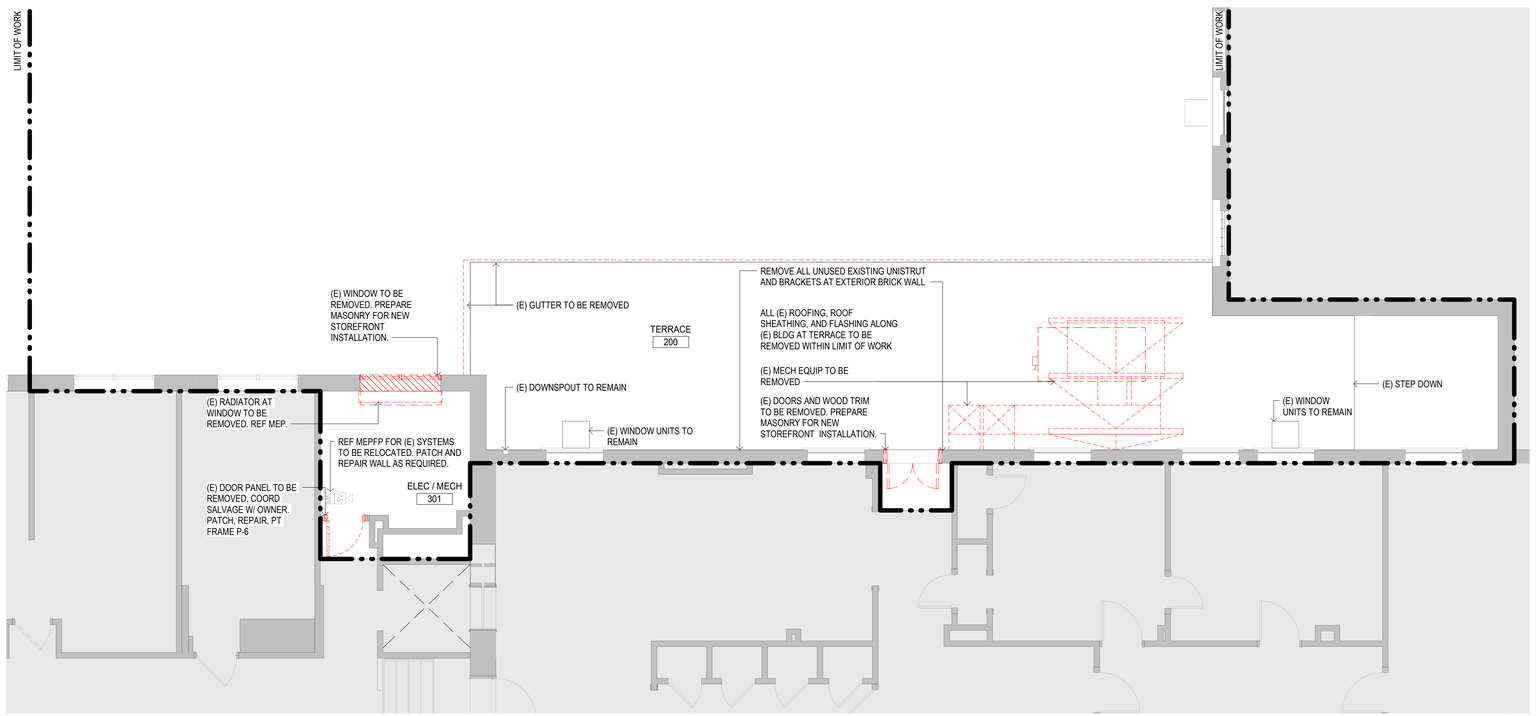
CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
SELECTIVE REMOVAL SITE PLAN

SHEET NUMBER:
A-100



1 SELECTIVE REMOVAL LEVEL S2 / N1 (HEALTH CENTER / PORCH)
A-101 3/16" = 1'-0"



2 SELECTIVE REMOVAL LEVEL S3 / N2 (E DORM / LIFE DORM)
A-101 3/16" = 1'-0"

3/16" = 1'-0" 0 2' 4' 8' 12'

SELECTIVE REMOVAL GENERAL NOTES

A. REFERENCE SHEET G-002 FOR PROJECT GENERAL NOTES AND CONDITIONS.
B. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SELECTIVE REMOVAL. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND AMONG THE DOCUMENTS OR BETWEEN DOCUMENTS AND EXISTING CONDITIONS.
C. COORDINATE EXTENT OF SELECTIVE REMOVAL AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. REFERENCE ALL DISCIPLINE DOCUMENTS.
D. COORDINATE INTERRUPTIONS, SITE LOGISTICS, CUTTING, AND MATERIAL REMOVAL WITH OWNER AND OWNER STANDARDS.
E. ALL DASHED ITEMS IN RED TO BE REMOVED UNLESS OTHERWISE NOTED.
F. CONTRACTOR SHALL PATCH SURFACES AFFECTED BY DEMOLITION WITH NEW FINISH MATERIAL TO MATCH EXISTING ADJACENT SURFACES. PRIOR TO SUBMITTING A BID, CONTRACTOR SHALL SURVEY THE EXISTING CONDITIONS TO DETERMINE THE EXTENT OF WORK REQUIRED.
G. DUST, DEBRIS, AND NOISE CONTROL MUST BE PROVIDED BETWEEN CONSTRUCTION AND NON-CONSTRUCTION AREAS AT ALL TIMES. COORDINATE WITH OWNER AND MECHANICAL SYSTEM REQUIREMENTS.
H. ALL STRUCTURAL ELEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, SLABS, DECKS, AND COLUMNS TO REMAIN UNLESS OTHERWISE NOTED; PROVIDE PROTECTION IF REQUIRED. REF STRUCTURAL.
I. REASONABLE EFFORT SHOULD BE MADE TO RECYCLE OR SALVAGE MATERIALS REMOVED.
J. COORDINATE SALVAGE OF MATERIALS AND/OR FIXTURES WITH OWNER BEFORE REMOVAL PROCESS BEGINS. SALVAGE AND PROTECT IN PLACE DOORS AND HARDWARE.
K. PROTECT IN PLACE ALL STRUCTURE, SURFACES, FINISHES, DEVICES, DOORS, AND TRIM TO REMAIN.
L. EXISTING MEMBRANE, BLOCKING, GUTTER, AND FLASHING TO BE REMOVED. PREPARE SURFACES TO RECEIVE NEW ROOFING AND ASSOCIATED ELEMENTS.

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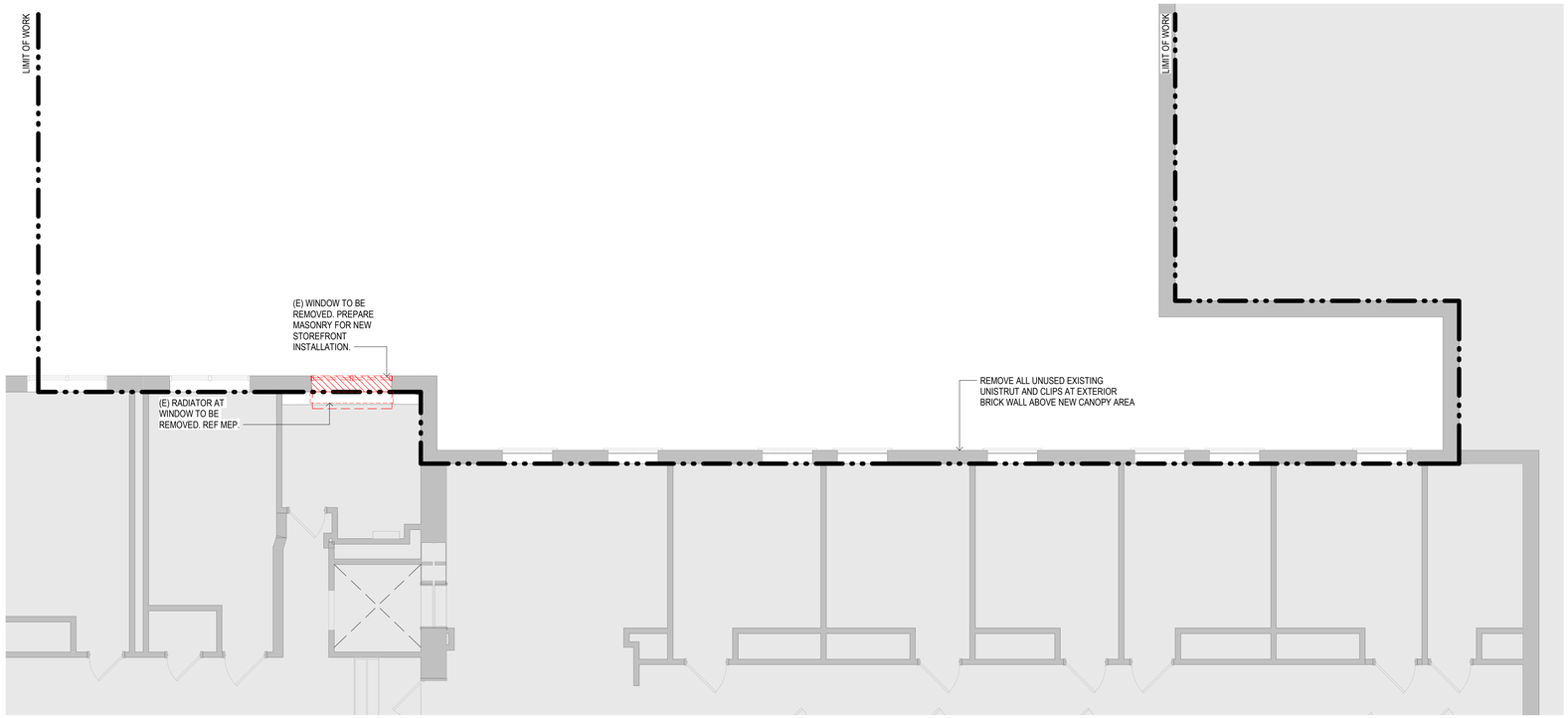
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
SELECTIVE REMOVAL FLOOR PLANS - LEVEL S2 / N1 & LEVEL S3 / N2

SHEET NUMBER:
A-101



1 SELECTIVE REMOVAL LEVEL S4 / N3 (F DORM)
A-102 3/16" = 1'-0"

3/16" = 1'-0" 0 2' 4' 8' 12'

SELECTIVE REMOVAL GENERAL NOTES

A. REFERENCE SHEET G-002 FOR PROJECT GENERAL NOTES AND CONDITIONS.
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J. COORDINATE SALVAGE OF MATERIALS AND/OR FIXTURES WITH OWNER BEFORE REMOVAL PROCESS BEGINS. SALVAGE AND PROTECT IN PLACE DOORS AND HARDWARE.
K. PROTECT IN PLACE ALL STRUCTURE, SURFACES, FINISHES, DEVICES, DOORS, AND TRIM TO REMAIN.
L. EXISTING MEMBRANE, BLOCKING, GUTTER, AND FLASHING TO BE REMOVED. PREPARE SURFACES TO RECEIVE NEW ROOFING AND ASSOCIATED ELEMENTS.

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DRAWN BY: EJC
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DESIGNED BY: API

SHEET TITLE:
SELECTIVE REMOVAL FLOOR PLANS - LEVEL S4 / N3

SHEET NUMBER:
A-102

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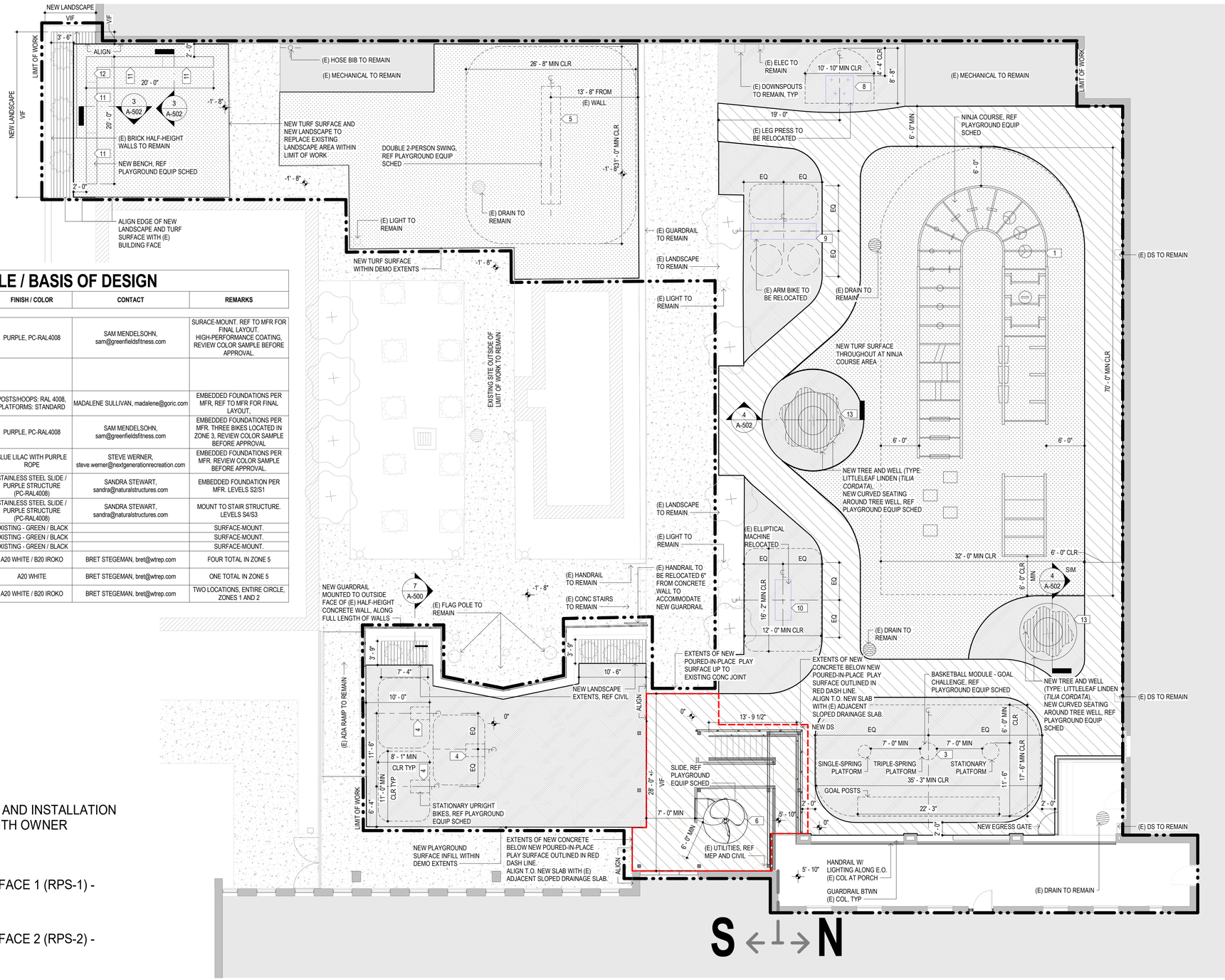
SITE PLAN GENERAL NOTES

1. ALL NEW PLAYGROUND SURFACES TO BE FLUSH AT TRANSITIONS TO OTHER NEW AND EXISTING GROUND SURFACES.
2. CONTRACTOR TO CONFIRM ALL RUNNING SLOPES NEVER EXCEED 1:20.
3. CONTRACTOR TO CONFIRM ALL CROSS SLOPES NEVER EXCEED 1:48.
4. REF CIVIL DWGS FOR PLAYGROUND SURFACING DETAILS.
5. DRAWINGS TO BE REVIEWED BY PLAYGROUND INSPECTOR PRIOR TO ORDERING.
6. SMALL PLANTS IN NEW LANDSCAPE BEDS, DEL DESIGN. COORD WITH OWNER. MIN 1-YEAR WARRANTY REQUIRED.
7. PRE-INSTALLATION COORDINATION OF PLAY SURFACE LAYOUTS REQUIRED. GC TO MARK GROUND WITH GEOMETRY INDICATED ON DRAWINGS, AND REVIEW WITH ARCH AND OWNER.
8. REFERENCE A-100 FOR SITE ACCESS AND CONSTRUCTION STAGING LOCATIONS.

PLAYGROUND EQUIPMENT SCHEDULE / BASIS OF DESIGN

EQUIP NUMBER	EQUIP TYPE	MANUFACTURER	PRODUCT NAME / NUMBER	FINISH / COLOR	CONTACT	REMARKS
1	NINJA COURSE (ALTERNATE NO. 1)	GREENFIELDS OUTDOOR FITNESS	NINJA COURSE #4 - NJC4	PURPLE, PC-RAL4008	SAM MENDELSOHN, sam@greenfieldsfitness.com	SURACE-MOUNT. REF TO MFR FOR FINAL LAYOUT. HIGH-PERFORMANCE COATING, REVIEW COLOR SAMPLE BEFORE APPROVAL.
2	NOT USED					
3	BASKETBALL GOAL CHALLENGE (ALTERNATE NO. 2)	GORIC	GOAL CHALLENGE	POSTS/HOOPS: RAL 4008, PLATFORMS: STANDARD	MADALENE SULLIVAN, madalene@goric.com	EMBEDDED FOUNDATIONS PER MFR, REF TO MFR FOR FINAL LAYOUT.
4	STATIONARY BIKE (ALTERNATE NO. 2)	GREENFIELDS OUTDOOR FITNESS	UPRIGHT STATIONARY BIKE - UBX289-11	PURPLE, PC-RAL4008	SAM MENDELSOHN, sam@greenfieldsfitness.com	EMBEDDED FOUNDATIONS PER MFR. THREE BIKES LOCATED IN ZONE 3, REVIEW COLOR SAMPLE BEFORE APPROVAL
5	DOUBLE 2-PERSON SWING	DYNAMO PLAYGROUNDS	BIGGO SPIA DUO - DX-3275	BLUE LILAC WITH PURPLE ROPE	STEVE WERNER, steve.werner@nextgenerationrecreation.com	EMBEDDED FOUNDATIONS PER MFR. REVIEW COLOR SAMPLE BEFORE APPROVAL.
6	LOWER SLIDE (ALTERNATE NO. 3)	NATURAL STRUCTURES	CUSTOM 36" ID ENCLOSED FLUME SLIDE FOR S1-S2 LOWER LEVEL	STAINLESS STEEL SLIDE / PURPLE STRUCTURE (PC-RAL4008)	SANDRA STEWART, sandra@naturalstructures.com	EMBEDDED FOUNDATION PER MFR. LEVELS S2/S1
7	UPPER SLIDE (ALTERNATE NO. 4)	NATURAL STRUCTURES	CUSTOM 36" ID ENCLOSED FLUME SLIDE FOR S3-S4 UPPER LEVEL	STAINLESS STEEL SLIDE / PURPLE STRUCTURE (PC-RAL4008)	SANDRA STEWART, sandra@naturalstructures.com	MOUNT TO STAIR STRUCTURE. LEVELS S4/S3
8	LEG PRESS (ALT NO. 2)	EXISTING	EXISTING	EXISTING - GREEN / BLACK		SURFACE-MOUNT.
9	ARM BIKE (ALT NO. 2)	EXISTING	EXISTING	EXISTING - GREEN / BLACK		SURFACE-MOUNT.
10	ELLIPTICAL (ALT NO. 2)	EXISTING	EXISTING	EXISTING - GREEN / BLACK		SURFACE-MOUNT.
11	LINEAR CONCRETE BENCH	WAUSAU	URBASTYLE WOODLINE ZB.WL.10	A20 WHITE / B20 IROKO	BRET STEGEMAN, bret@wtrep.com	FOUR TOTAL IN ZONE 5
12	CORNER CONCRETE BENCH	WAUSAU	URBASTYLE WOODLINE ZB.WL.04	A20 WHITE	BRET STEGEMAN, bret@wtrep.com	ONE TOTAL IN ZONE 5
13	CURVED CONCRETE BENCH	WAUSAU	URBASTYLE WOODLINE ZB.WL.32	A20 WHITE / B20 IROKO	BRET STEGEMAN, bret@wtrep.com	TWO LOCATIONS, ENTIRE CIRCLE, ZONES 1 AND 2



PLAYGROUND SURFACE TYPES

- NEW LANDSCAPE - PLANT SELECTION AND INSTALLATION DELEGATED DESIGN, COORDINATE WITH OWNER
- NEW TURF SURFACE (TS-1)
- NEW POURED-IN-PLACE RUBBER SURFACE 1 (RPS-1) - COLOR: LIGHT GREY
- NEW POURED-IN-PLACE RUBBER SURFACE 2 (RPS-2) - COLOR: PURPLE

1 ARCHITECTURAL SITE PLAN
A-103 1/8" = 1'-0"

1/8" = 1'-0" 0 3' 6' 12' 18'

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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ANNA B.F. IVES
NUMBER A-2010013038
ARCHITECT
29 June 2026

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EGRESS STAIR

MISSOURI
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3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
ARCHITECTURAL SITE PLAN

SHEET NUMBER:
A-103

SITE PLAN GENERAL NOTES

1. ALL NEW PLAYGROUND SURFACES TO BE FLUSH AT TRANSITIONS TO OTHER NEW AND EXISTING GROUND SURFACES.
2. CONTRACTOR TO CONFIRM ALL RUNNING SLOPES NEVER EXCEED 1:20.
3. CONTRACTOR TO CONFIRM ALL CROSS SLOPES NEVER EXCEED 1:48.
4. REF CIVIL DWGS FOR PLAYGROUND SURFACING DETAILS.
5. DRAWINGS TO BE REVIEWED BY PLAYGROUND INSPECTOR PRIOR TO ORDERING.
6. SMALL PLANTS IN NEW LANDSCAPE BEDS, DEL DESIGN. COORD WITH OWNER. MIN 1-YEAR WARRANTY REQUIRED.
7. PRE-INSTALLATION COORDINATION OF PLAY SURFACE LAYOUTS REQUIRED. GC TO MARK GROUND WITH GEOMETRY INDICATED ON DRAWINGS, AND REVIEW WITH ARCH AND OWNER.

PLAYGROUND SURFACE ZONES

ZONE 1

- (E) CONCRETE BASE
- 10'-0" FALL HEIGHT
- FFE = 3" ABOVE FINISHED GRADE (PER MFR)
- 5" SYSTEM (PER MFR)
- TS-1 SF: 2,318 SF VIF
- RPS-1 SF: 850 SF VIF
- RPS-2 SF: 43 SF VIF

ZONE 2

- (E) CONCRETE BASE
- 1% SLOPED SYSTEM
- 4'-0" FALL HEIGHT AT (E) CONC TRANSITION UP TO 10'-0" FALL HEIGHT AT ZONE 1 TRANSITION
- FFE = MATCH FINISHED GRADE (0'-0") AT (E) CONC TRANSITION UP TO 3" ABOVE FINISHED GRADE AT ZONE 1 TRANSITION (PER MFR)
- 2" SYSTEM AT (E) CONC TRANSITION UP TO 5" SYSTEM AT ZONE 1 TRANSITION (PER MFR)
- TS-1 SF: 418 SF VIF
- RPS-1 SF: 2,215 SF VIF
- RPS-2 SF: 2,096 SF VIF

ZONE 3

- NEW 4" AGGREGATE BASE BY MFR
- 4'-0" FALL HEIGHT
- FFE = MATCH FINISHED GRADE (0'-0")
- 2" SYSTEM (PER MFR)
- RPS-2 SF: 1030 SF VIF

ZONE 4

- NEW 4" AGGREGATE BASE BY MFR
- 8'-0" FALL HEIGHT
- FFE = MATCH FINISHED GRADE (-1'-8")
- 4" SYSTEM (PER MFR)
- TS-1 SF: 1580 SF VIF

ZONE 5

- NEW 4" AGGREGATE BASE BY MFR
- NO FALL HEIGHT
- NAIL BOARD AND AGGREGATE 1/2" BELOW FINISHED GRADE (PER MFR)
- FFE = MATCH FINISHED GRADE (-1'-8")
- TS-1 SF: 590 SF VIF

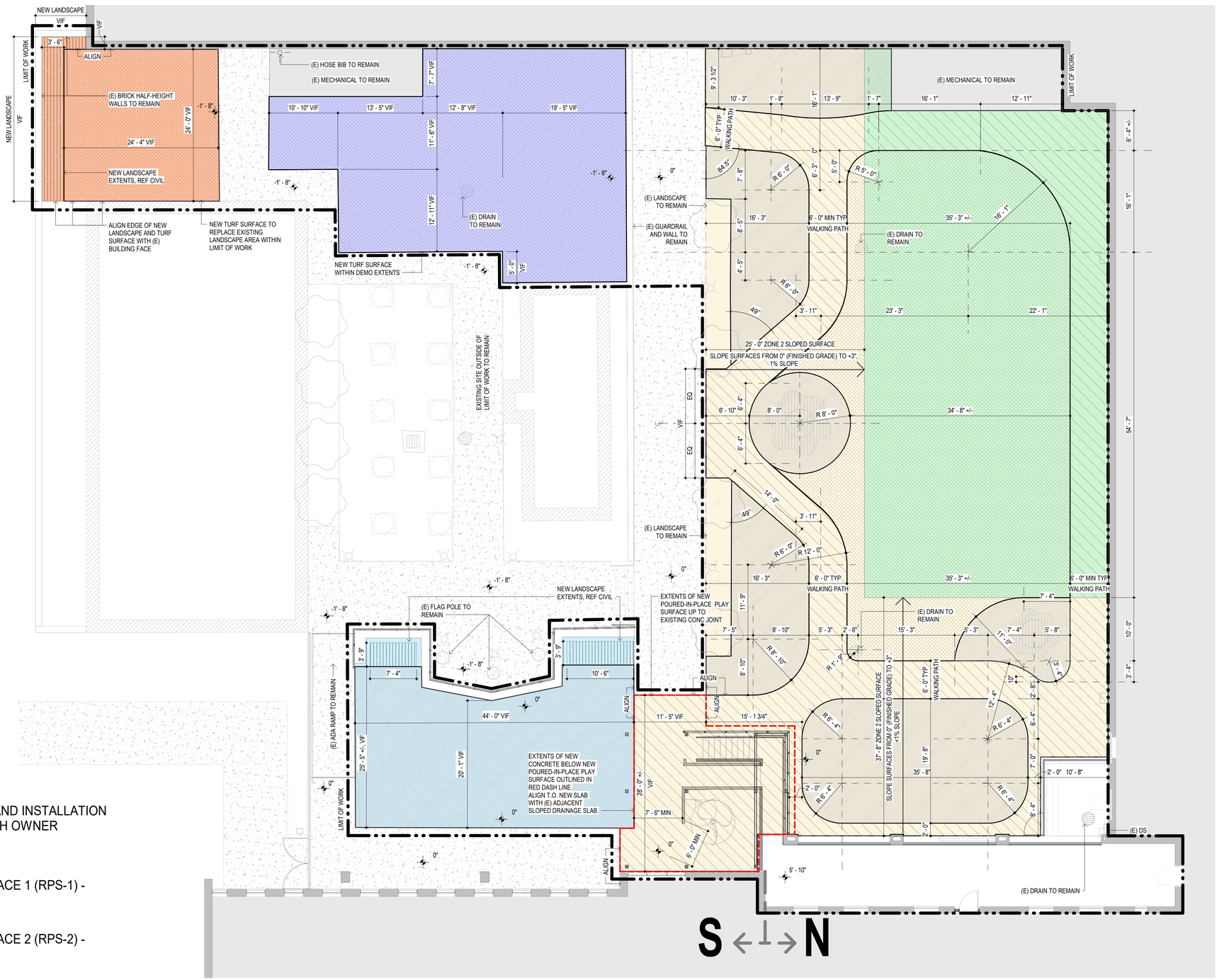
PLAYGROUND SURFACE TYPES

NEW LANDSCAPE - PLANT SELECTION AND INSTALLATION DELEGATED DESIGN, COORDINATE WITH OWNER

NEW TURF SURFACE (TS-1)

NEW POURED-IN-PLACE RUBBER SURFACE 1 (RPS-1) - COLOR: LIGHT GREY

NEW POURED-IN-PLACE RUBBER SURFACE 2 (RPS-2) - COLOR: PURPLE



1 ARCHITECTURAL SITE PLAN - PLAYGROUND SURFACING
A-104 1/8" = 1'-0"

1/8" = 1'-0" 0 3' 6' 12' 18'

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PROJECT # E2332-01
ASSET # 5012011017

REVISION:
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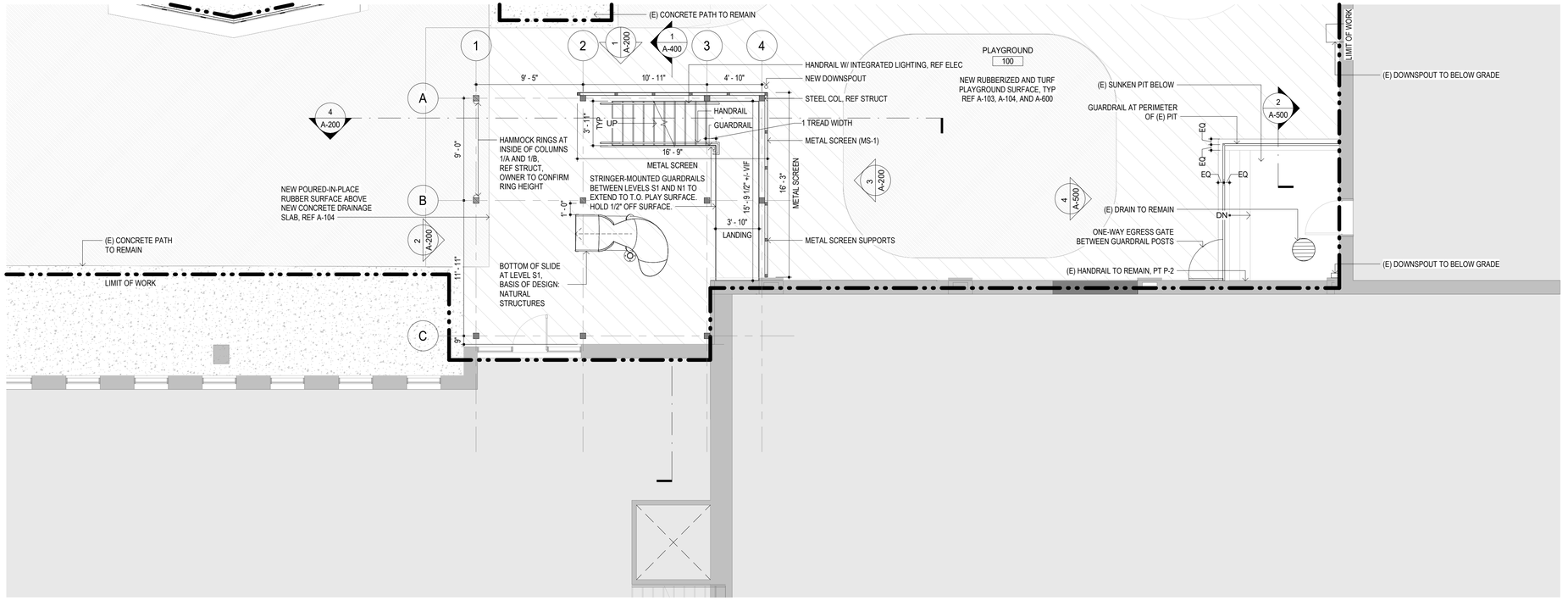
ISSUE DATE: 29 JUNE 2026

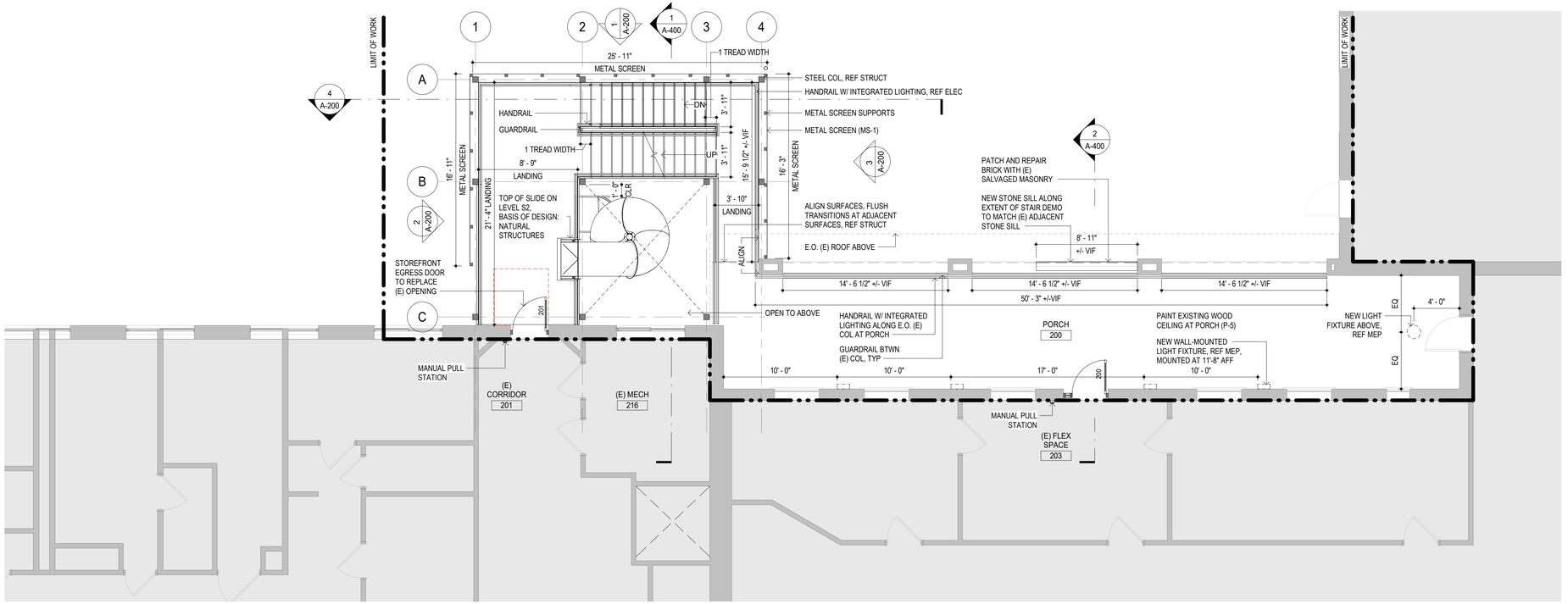
CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
ARCHITECTURAL SITE PLAN - PLAYGROUND SURFACING

SHEET NUMBER:
A-104



1 LEVEL S1 (PLAYGROUND)
A-105 3/16" = 1'-0"



2 LEVEL S2 / N1 (HEALTH CENTER / PORCH)
A-105 3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. REFERENCE PROJECT GENERAL NOTES ON SHEET G-002.
B. ALL STAIR DIMENSIONS TAKEN FROM OUTSIDE EDGE OF STEEL PLATE STRINGER.
C. ALL STEEL MEMBERS WITH HIGH-PERFORMANCE COATING, UON.
D. REFERENCE SHEET A-600 FOR FINISH FLOOR PLAN AND MATERIAL LEGEND.
E. ALL HANDRAILS AND GUARDRAILS TO BE CONTINUOUS.
F. INTEGRATED HANDRAIL LIGHTING ONLY AT ONE SIDE OF STAIR RUN, AS INDICATED ON ELEC DRAWINGS. LIGHTING MODULES SPACED EVERY 2'-0", REF ELEC.
G. HANDRAILS ALONG PORCH AND TERRACE HAVE CONTINUOUS INTEGRATED LIGHTING SPACED EVERY 2'-0", REF ELEC.
H. REF A-601 FOR ALL DOOR DETAILS.
I. METAL STAIR COMPONENTS, GUARDRAILS, AND HANDRAILS DELEGATED DESIGN, REF A-500 AND SPEC.
J. FULL ISOLATION OF NON-SIMILAR METALS. NON-METALLIC SHIM AT FASTENER LOCATIONS OR ISOLATION MEMBRANE BETWEEN NON-SIMILAR METALS TO PREVENT GALVANIC ACTION.
K. REFERENCE AND COORDINATE WITH SELECTIVE REMOVAL DOCUMENTS IN ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCH, MEPFP, STRUCT AND CIVIL.
L. PAINT COMPLETE WALL, EDGE TO EDGE, WHERE AN INTERIOR WALL SURFACE IS DISTURBED BY INSTALLATION OF A NEW DOOR OPENING. MATCH EXISTING PAINT COLOR IN EACH LOCATION.
M. PROTECT SURFACES ADJACENT NEW DOOR OPENINGS IN MASONRY WALLS. UTILIZE HAND TOOLS/SMALL POWER TOOLS TO MINIMIZE DISTURBANCE OF MASONRY TO REMAIN. PATCH AND REPAIR MASONRY AS REQUIRED TO RECEIVE A NEW PLASTER FINISH AND PAINT.
N. FIRE RESISTANCE PARTITION RATING SHALL BE CONTINUOUS (FLOOR TO STRUCTURE). ALL OPENINGS, PENETRATIONS, GAPS OR NON-CONTINUOUS CONSTRUCTION SHALL BE REPAIRED AND PATCHED WITH UL-LISTED SYSTEM TO MAINTAIN REQUIRED RATING.
O. ALL NEW STRUCTURAL STEEL DIMENSIONS ARE TO BE FIXED. VIF DIMENSIONS INDICATED ARE TO ADDRESS EXISTING CONSTRUCTION.

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EGRESS STAIR

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3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

PROJECT # E2332-01
ASSET # 5012011017

REVISION:
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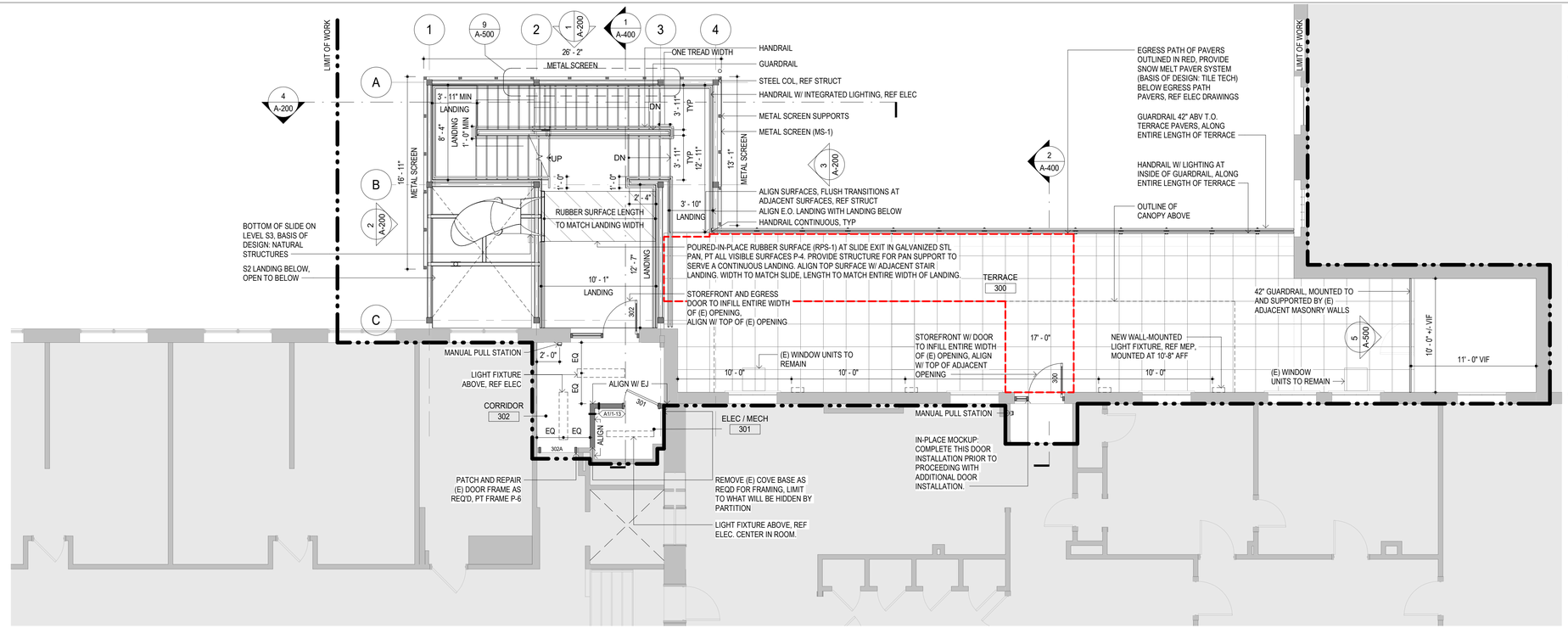
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
FLOOR PLANS - LEVEL S1 & LEVEL S2 / N1

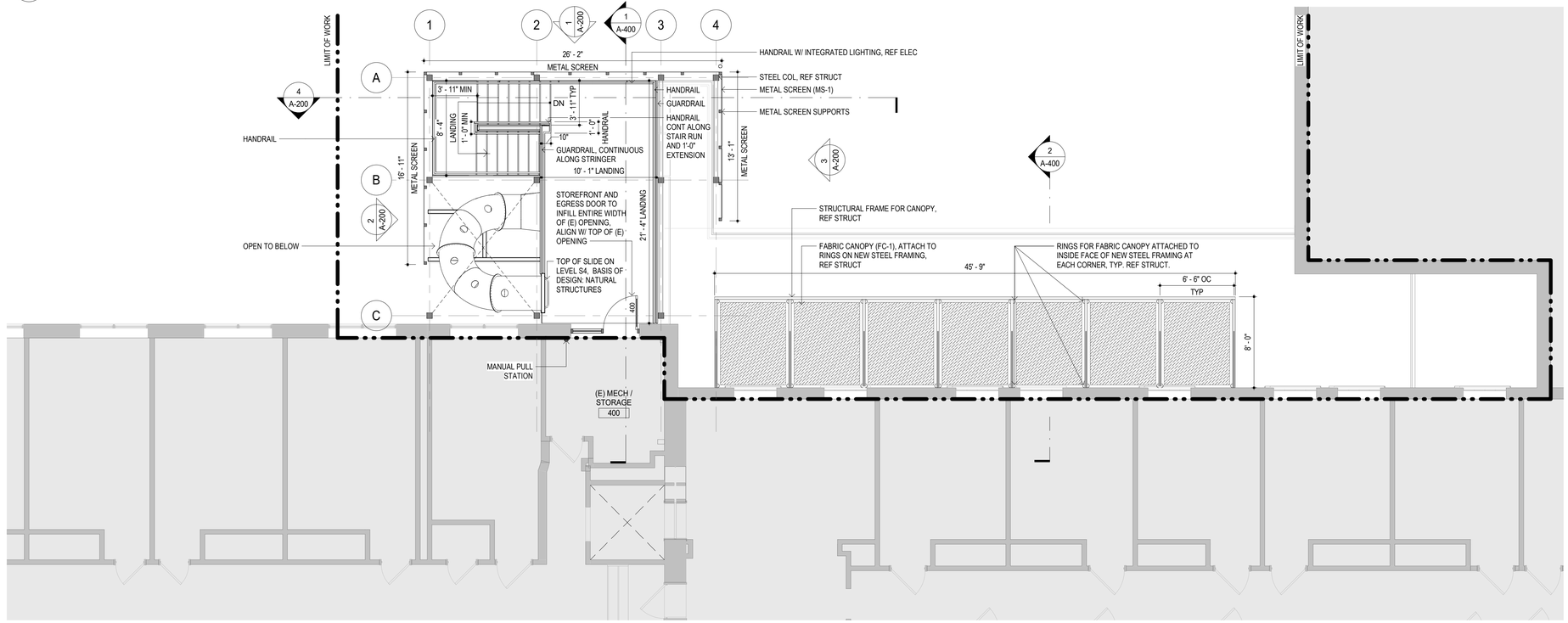
SHEET NUMBER:
A-105



FLOOR PLAN GENERAL NOTES

A. REFERENCE PROJECT GENERAL NOTES ON SHEET G-002.
B. ALL STAIR DIMENSIONS TAKEN FROM OUTSIDE EDGE OF STEEL PLATE STRINGER.
C. ALL STEEL MEMBERS WITH HIGH-PERFORMANCE COATING, UON.
D. REFERENCE SHEET A-600 FOR FINISH FLOOR PLAN AND MATERIAL LEGEND.
E. ALL HANDRAILS AND GUARDRAILS TO BE CONTINUOUS.
F. INTEGRATED HANDRAIL LIGHTING ONLY AT ONE SIDE OF STAIR RUN, AS INDICATED ON ELEC DRAWINGS. LIGHTING MODULES SPACED EVERY 2'-0", REF ELEC.
G. HANDRAILS ALONG PORCH AND TERRACE HAVE CONTINUOUS INTEGRATED LIGHTING SPACED EVERY 2'-0", REF ELEC.
H. REF A-601 FOR ALL DOOR DETAILS.
I. METAL STAIR COMPONENTS, GUARDRAILS, AND HANDRAILS DELEGATED DESIGN, REF A-500 AND SPEC.
J. FULL ISOLATION OF NON-SIMILAR METALS. NON-METALLIC SHIM AT FASTENER LOCATIONS OR ISOLATION MEMBRANE BETWEEN NON-SIMILAR METALS TO PREVENT GALVANIC ACTION.
K. REFERENCE AND COORDINATE WITH SELECTIVE REMOVAL DOCUMENTS IN ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCH, MEPFP, STRUCT AND CIVIL.
L. PAINT COMPLETE WALL, EDGE TO EDGE, WHERE AN INTERIOR WALL SURFACE IS DISTURBED BY INSTALLATION OF A NEW DOOR OPENING. MATCH EXISTING PAINT COLOR IN EACH LOCATION.
M. PROTECT SURFACES ADJACENT NEW DOOR OPENINGS IN MASONRY WALLS. UTILIZE HAND TOOLS/SMALL POWER TOOLS TO MINIMIZE DISTURBANCE OF MASONRY TO REMAIN. PATCH AND REPAIR MASONRY AS REQUIRED TO RECEIVE A NEW PLASTER FINISH AND PAINT.
N. FIRE RESISTANCE PARTITION RATING SHALL BE CONTINUOUS (FLOOR TO STRUCTURE). ALL OPENINGS, PENETRATIONS, GAPS OR NON-CONTINUOUS CONSTRUCTION SHALL BE REPAIRED AND PATCHED WITH UL-LISTED SYSTEM TO MAINTAIN REQUIRED RATING.
O. ALL NEW STRUCTURAL STEEL DIMENSIONS ARE TO BE FIXED. V/F DIMENSIONS INDICATED ARE TO ADDRESS EXISTING CONSTRUCTION.

1 LEVEL S3 / N2 (E DORM / LIFE DORM)
A-106 3/16" = 1'-0"



2 LEVEL S4 / N3 (F DORM)
A-106 3/16" = 1'-0"

3/16" = 1'-0" 0 2' 4' 8' 12'

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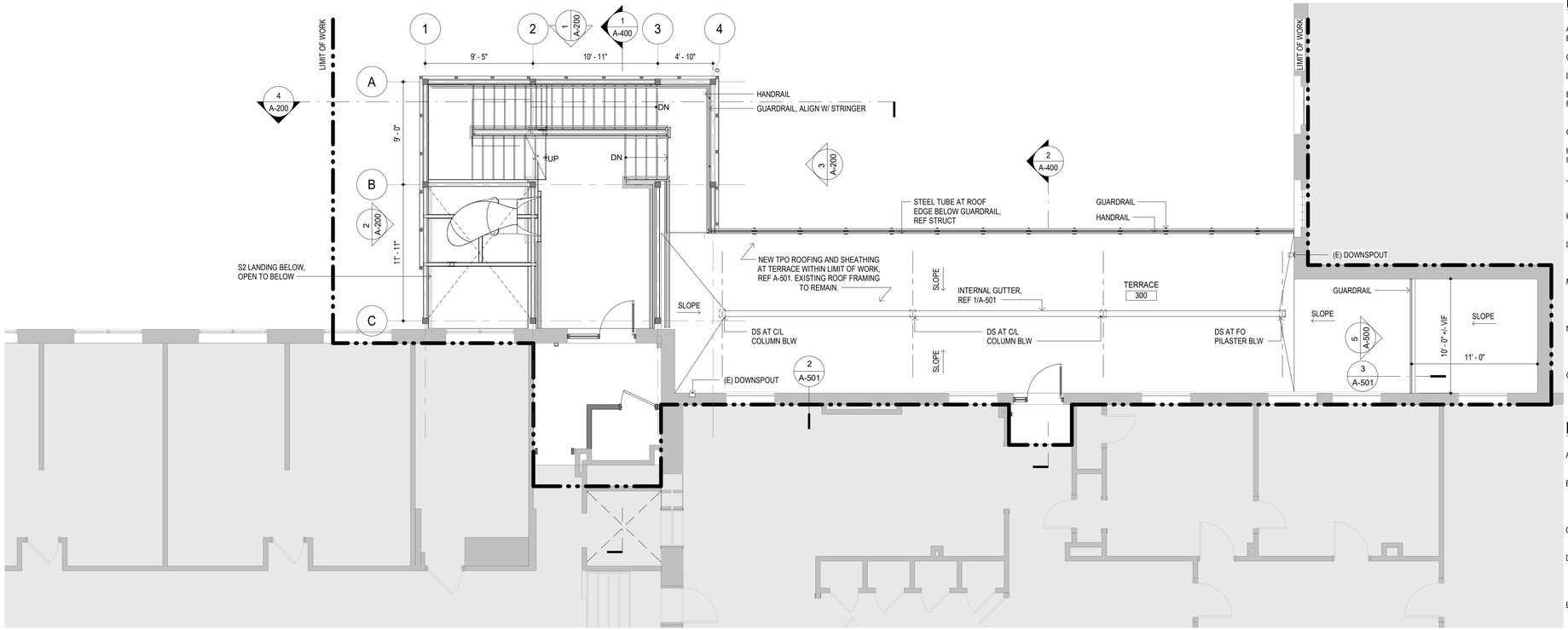
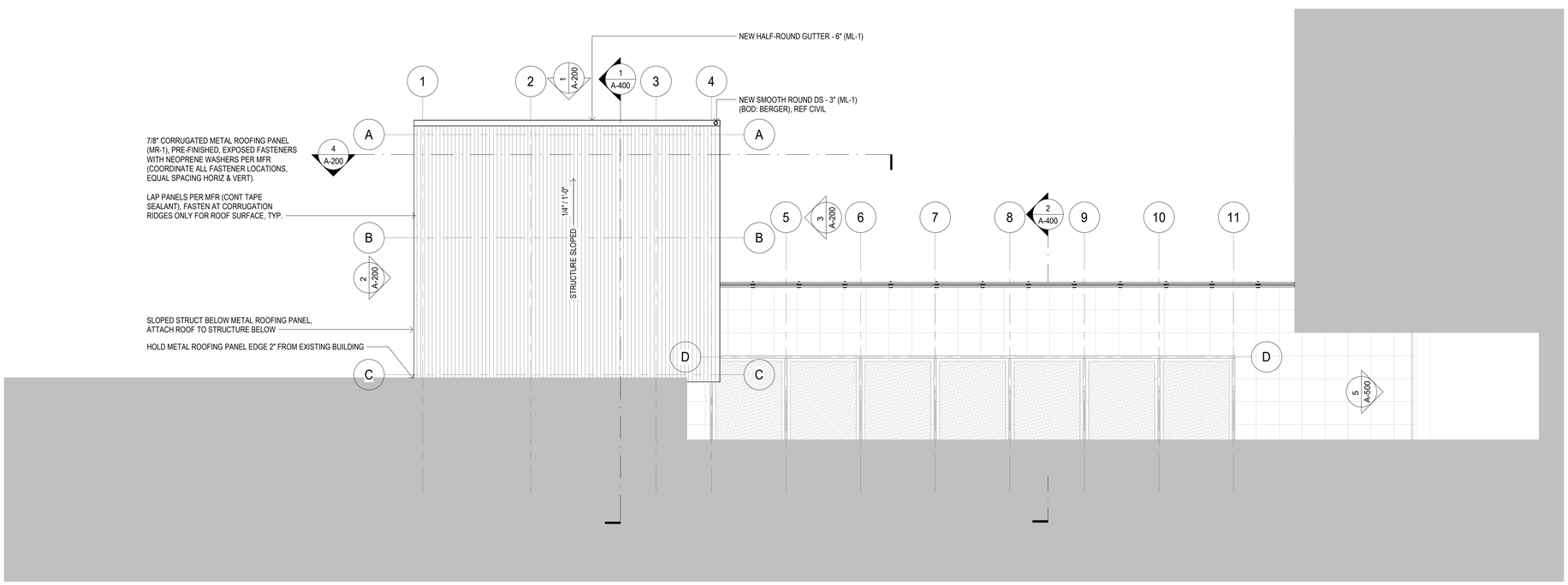
CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
FLOOR PLANS - LEVEL S3 / N2 & LEVEL S4 / N3

SHEET NUMBER:
A-106



1 ROOF PLAN - PORCH ROOF BELOW PAVERS
A-107 3/16" = 1'-0"



2 ROOF PLAN - STAIR ROOF
3/16" = 1'-0"

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FLOOR PLAN GENERAL NOTES

A. REFERENCE PROJECT GENERAL NOTES ON SHEET G-002.
B. ALL STAIR DIMENSIONS TAKEN FROM OUTSIDE EDGE OF STEEL PLATE STRINGER.
C. ALL STEEL MEMBERS WITH HIGH-PERFORMANCE COATING, UON.
D. REFERENCE SHEET A-600 FOR FINISH FLOOR PLAN AND MATERIAL LEGEND.
E. ALL HANDRAILS AND GUARDRAILS TO BE CONTINUOUS.
F. INTEGRATED HANDRAIL LIGHTING ONLY AT ONE SIDE OF STAIR RUN, AS INDICATED ON ELEC DRAWINGS. LIGHTING MODULES SPACED EVERY 2'-0", REF ELEC.
G. HANDRAILS ALONG PORCH AND TERRACE HAVE CONTINUOUS INTEGRATED LIGHTING SPACED EVERY 2'-0", REF ELEC.
H. REF A-601 FOR ALL DOOR DETAILS.
I. METAL STAIR COMPONENTS, GUARDRAILS, AND HANDRAILS DELEGATED DESIGN, REF A-500 AND SPEC.
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K. REFERENCE AND COORDINATE WITH SELECTIVE REMOVAL DOCUMENTS IN ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCH, MEPFP, STRUCT AND CIVIL.
L. PAINT COMPLETE WALL, EDGE TO EDGE, WHERE AN INTERIOR WALL SURFACE IS DISTURBED BY INSTALLATION OF A NEW DOOR OPENING. MATCH EXISTING PAINT COLOR IN EACH LOCATION.
M. PROTECT SURFACES ADJACENT NEW DOOR OPENINGS IN MASONRY WALLS. UTILIZE HAND TOOLS/SMALL POWER TOOLS TO MINIMIZE DISTURBANCE OF MASONRY TO REMAIN. PATCH AND REPAIR MASONRY AS REQUIRED TO RECEIVE A NEW PLASTER FINISH AND PAINT.
N. FIRE RESISTANCE PARTITION RATING SHALL BE CONTINUOUS (FLOOR TO STRUCTURE). ALL OPENINGS, PENETRATIONS, GAPS OR NON-CONTINUOUS CONSTRUCTION SHALL BE REPAIRED AND PATCHED WITH UL-LISTED SYSTEM TO MAINTAIN REQUIRED RATING.
O. ALL NEW STRUCTURAL STEEL DIMENSIONS ARE TO BE FIXED. V/F DIMENSIONS INDICATED ARE TO ADDRESS EXISTING CONSTRUCTION.

FLOOR PLAN GENERAL NOTES

A. REFERENCE AND COORDINATE WITH SELECTIVE REMOVAL DOCUMENTS IN ALL DISCIPLINES INCLUDING BUT NOT LIMITED TO ARCH, MEPFP, STRUCT AND CIVIL.
B. REFER TO DETAILS ON SHEET A501. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, LOCATIONS, AND QUANTITIES. CONTRACTOR TO COORDINATION INCLUDES BUT IS NOT LIMITED TO STRUCTURAL, ROOFING, ENTRANCE SYSTEM, AND PEDESTAL SYSTEM REQUIREMENTS INCLUDING SNOW MELT.
C. COMPLETE ROOF CORE WHERE INDICATED IN PLAN AND DETAIL TO DETERMINE EXISTING ROOF CONDITION PRIOR TO DEMOLITION.
D. INSTALL NEW WOOD BLOCKING TO ACCOMMODATE NEW INSULATION HEIGHTS, EDGE DETAILS, AND BASE FLASHINGS. ANCHOR ALL WOOD BLOCKING IN ACCORDANCE WITH SECTION I-39 OF THE FACTORY MUTUAL LOSS PRESENTATION DATA GUIDE FOR ROOFING CONTRACTORS.
E. PROTECT THE ROOF AREAS FROM CONSTRUCTION-RELATED TRAFFIC, DAMAGE, STAINS AND DISCOLORATION DURING CONSTRUCTION.

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

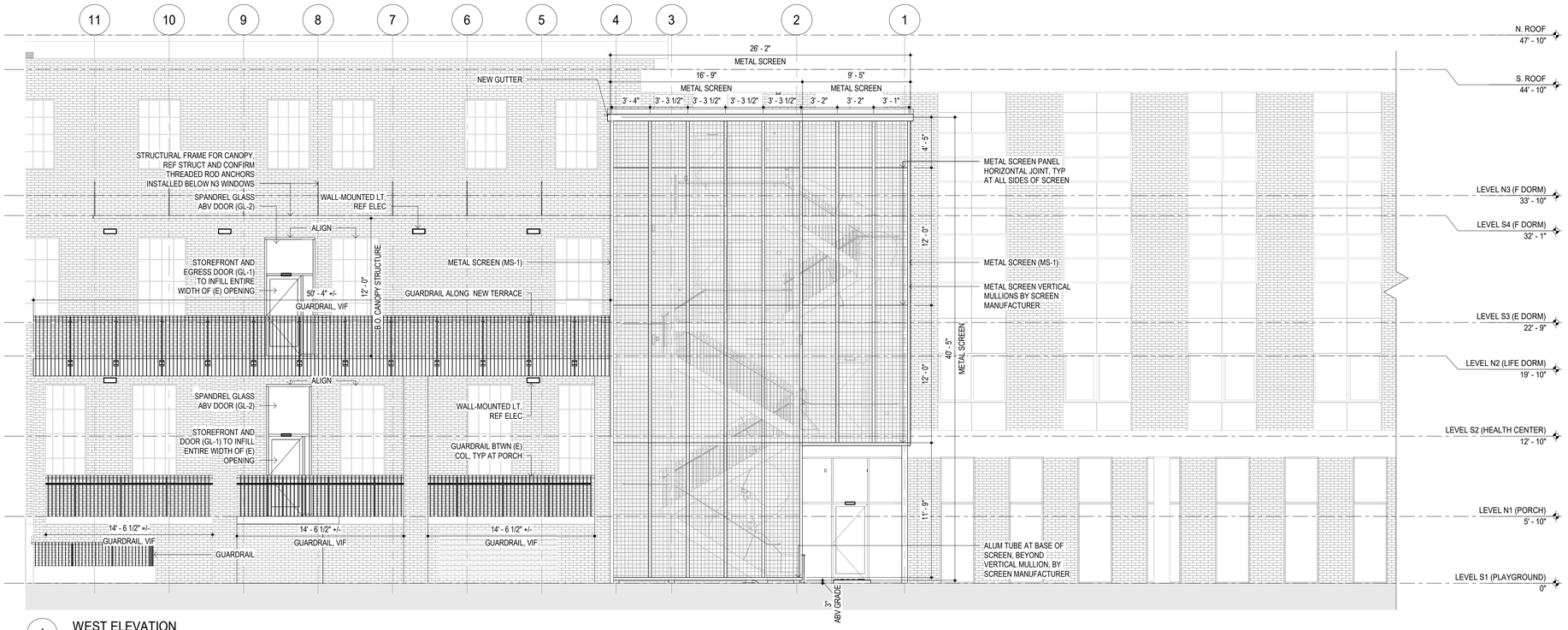
PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

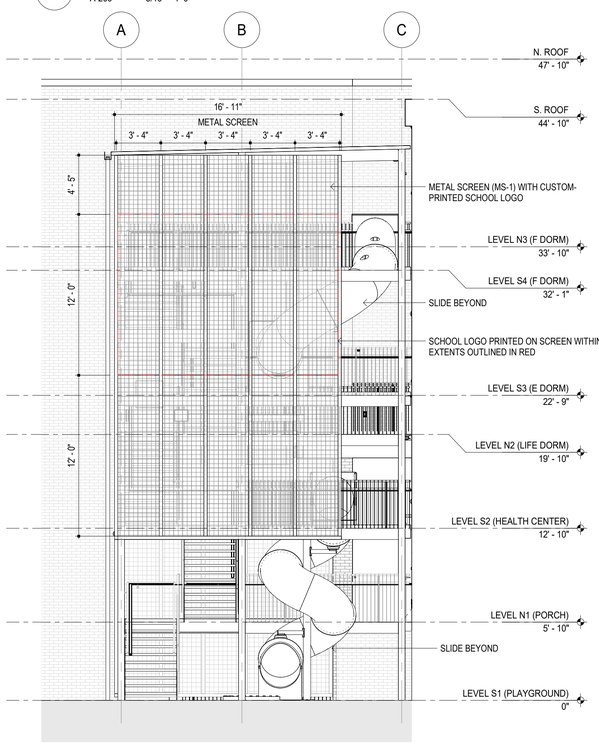
CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
ROOF PLANS

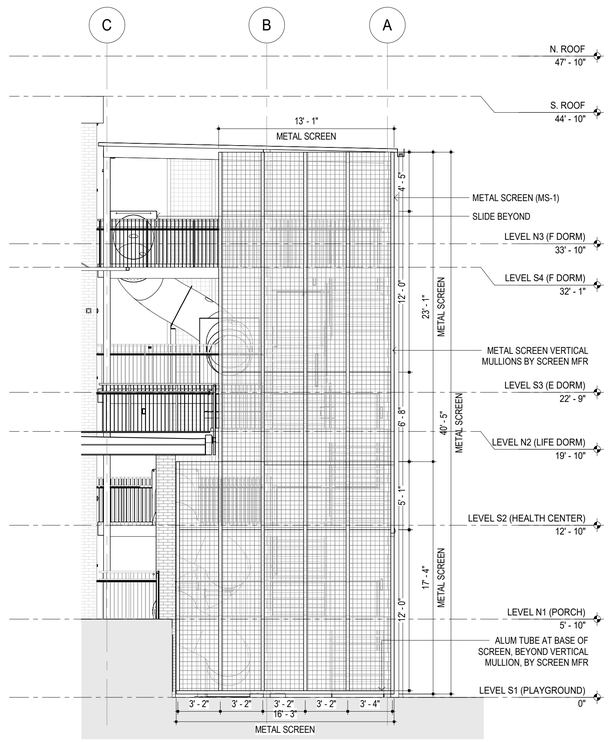
SHEET NUMBER:
A-107



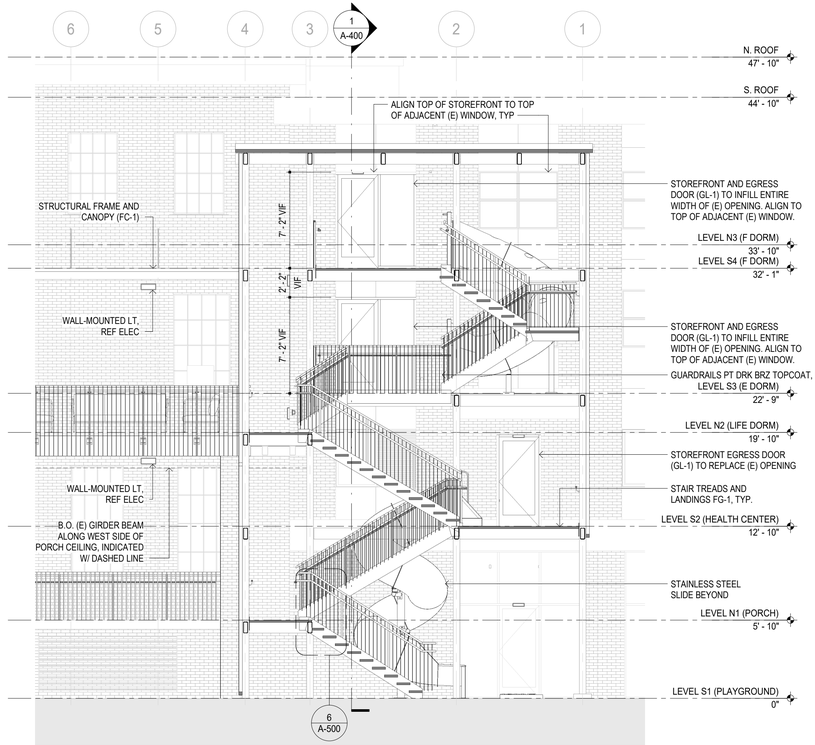
1 WEST ELEVATION
A-200 3/16" = 1'-0"



2 SOUTH STAIR ELEVATION
A-200 3/16" = 1'-0"



3 NORTH STAIR ELEVATION
A-200 3/16" = 1'-0"



4 LONGITUDINAL STAIR SECTION
A-200 3/16" = 1'-0"

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ELEVATION GENERAL NOTES

1. REFER TO PROJECT GENERAL NOTES ON SHEET G-002.
2. PAINT ALL EXPOSED CONDUIT TO MATCH LT FIXTURE FINISH (P-2).
3. ALL NEW GUARDRAILS TO INCLUDE GUARDRAIL SCREEN. 1/4" X 1/4" STEEL SOLID SQUARE BARS WELDED TO STEEL GUARDRAIL POSTS. GROUND SMOOTH ALL WELDS. RAIL SPACING <4", TYP.

STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
ANNA B.F. IVES
NUMBER A-2010013638
ARCHITECT
29 June 2026

PROFESSIONAL SEAL

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SCHOOL FOR THE BLIND
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PROJECT # E2332-01
ASSET # 5012011017

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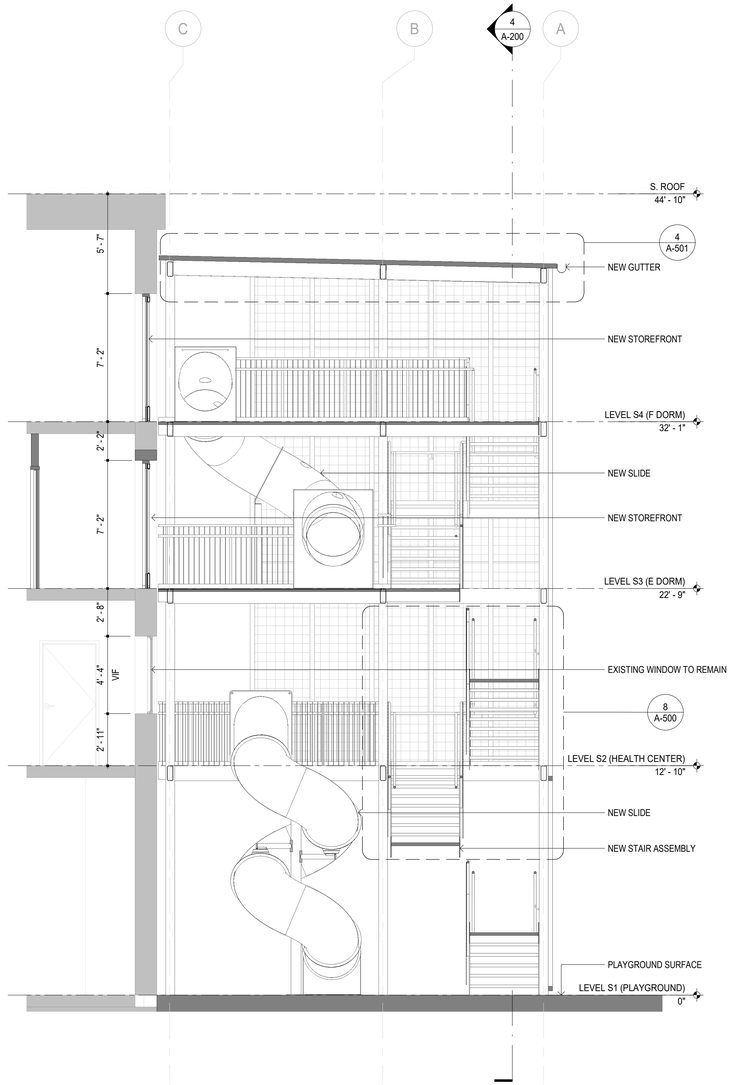
CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
STAIR ELEVATIONS AND SECTION

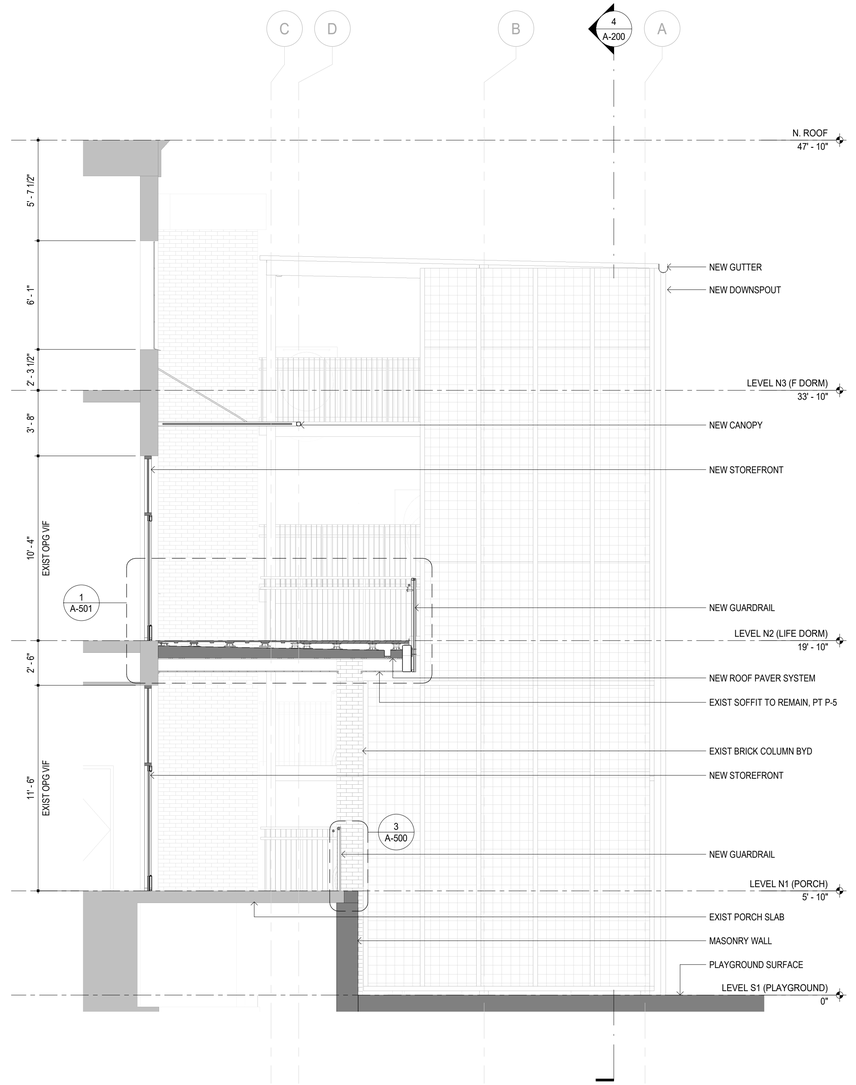
SHEET NUMBER:
A-200

WALL SECTIONS GENERAL NOTES

A. REFERENCE PROJECT GENERAL NOTES ON SHEET G-002.
B. REF A-601 FOR ALL DOOR DETAILS.



1 WALL SECTION - STAIR AT S3 DOOR INTO E DORM
A-400 1/4" = 1'-0"



2 WALL SECTION - PORCH AT NEW N2 DOOR INTO LIFE DORM
A-400 1/4" = 1'-0"

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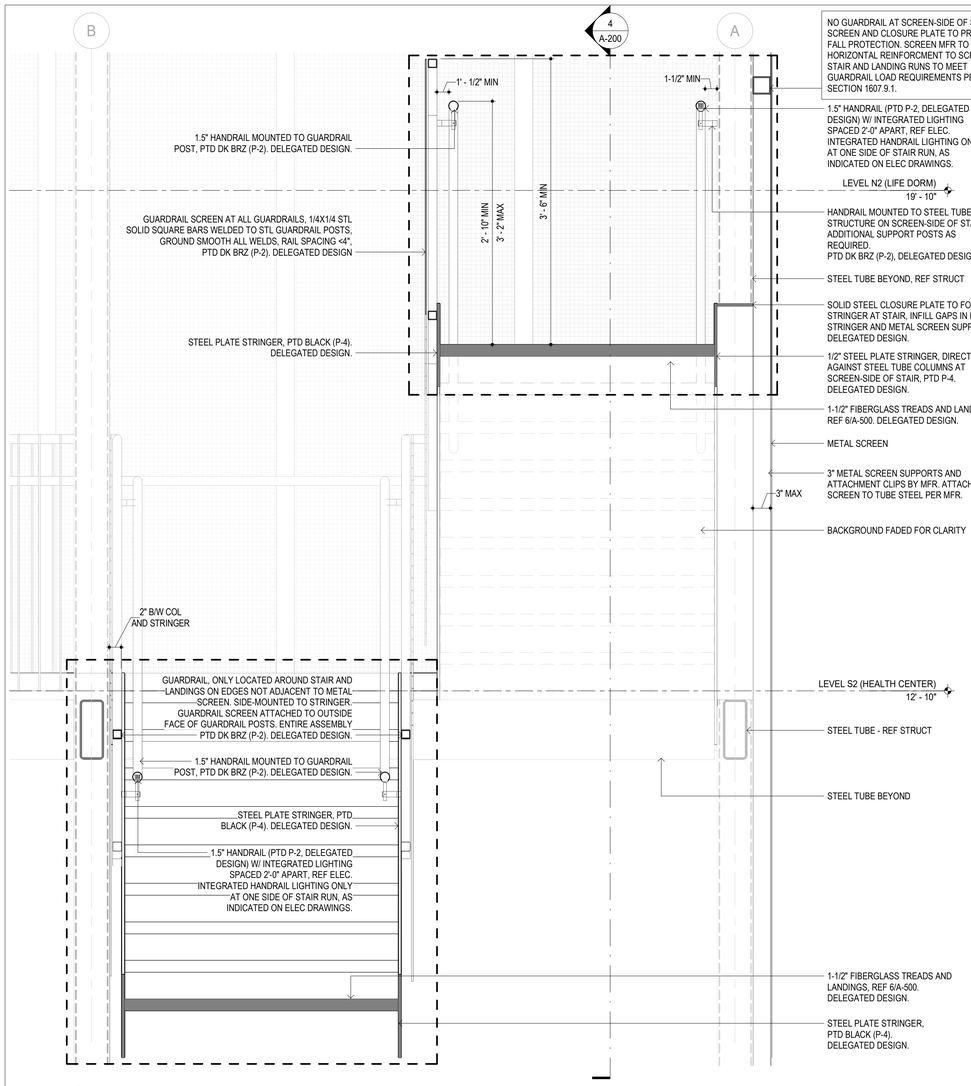
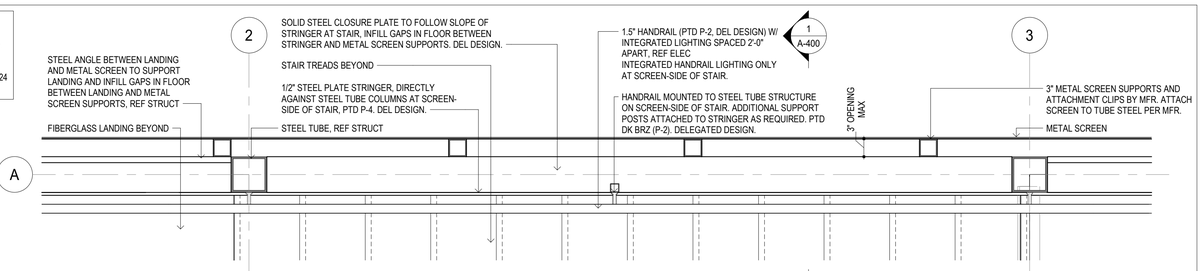
DESIGNED BY: API

SHEET TITLE:
WALL SECTIONS

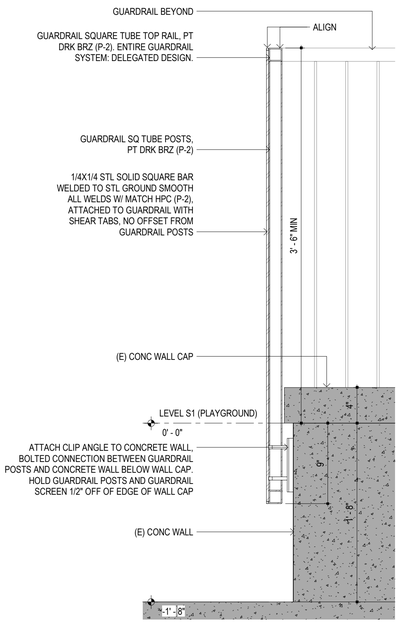
SHEET NUMBER:
A-400



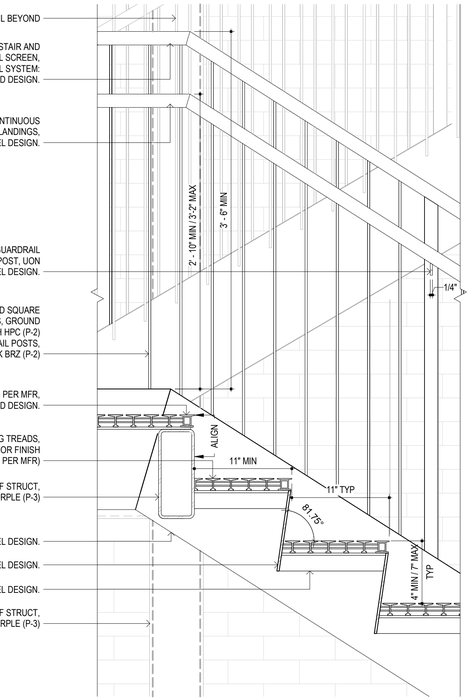
8 SECTION DETAIL - TYPICAL STAIR CROSS SECTION
A-500 1" = 1'-0"



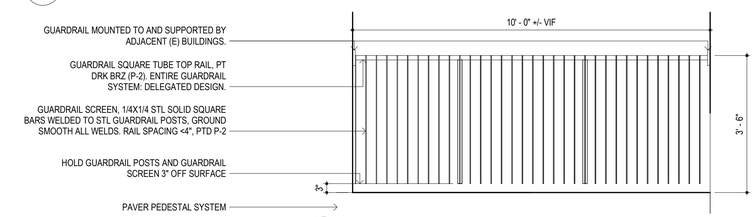
9 PLAN DETAIL - SCREEN, STEEL, AND STAIR ATTACHMENT
A-500 1" = 1'-0"



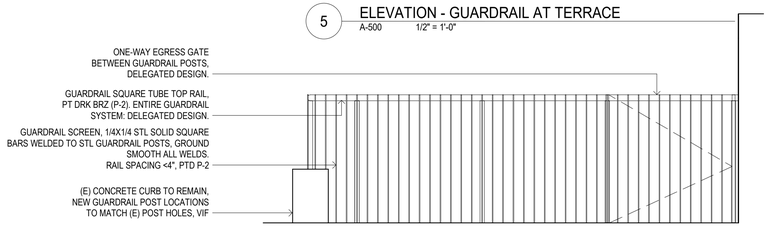
7 SECTION DETAIL - PLAYGROUND GUARDRAIL AT CONCRETE WALL
A-500 1 1/2" = 1'-0"



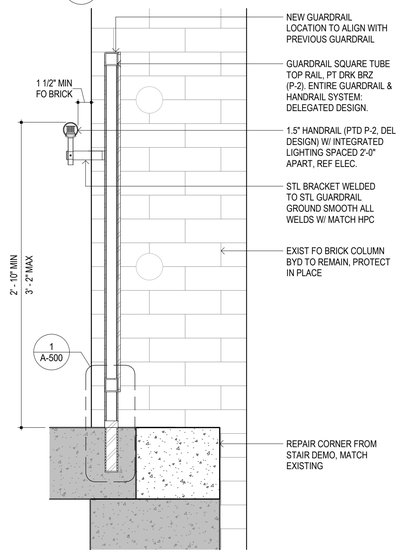
6 SECTION DETAIL - TYPICAL STAIR LONGITUNAL SECTION
A-500 1 1/2" = 1'-0"



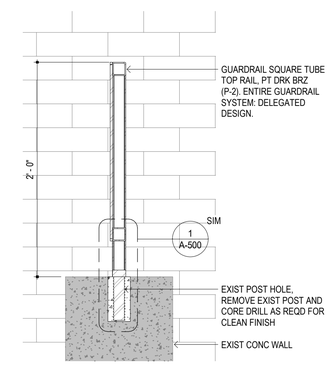
5 ELEVATION - GUARDRAIL AT TERRACE
A-500 1/2" = 1'-0"



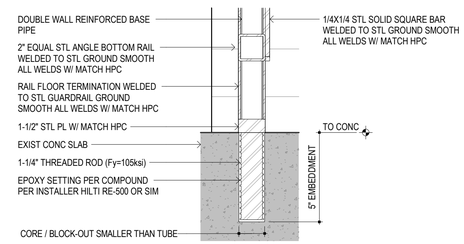
4 ELEVATION - GUARDRAIL AT PIT
A-500 1/2" = 1'-0"



3 SECTION DETAIL - PORCH GAURDRAIL
A-500 1 1/2" = 1'-0"



2 SECTION DETAIL - GUARDRAIL AT PIT
A-500 1 1/2" = 1'-0"



1 CONCRETE GAURDRAIL ATTACH
A-500 3" = 1'-0"

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EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
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DATE:
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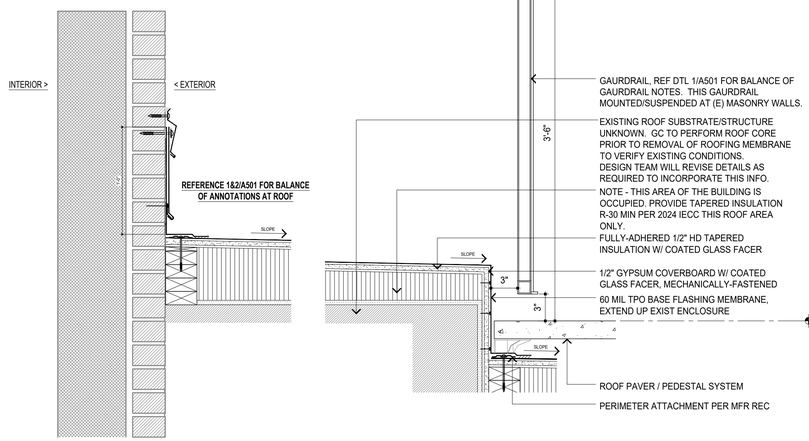
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: API
CHECKED BY: ABI
DESIGNED BY: API

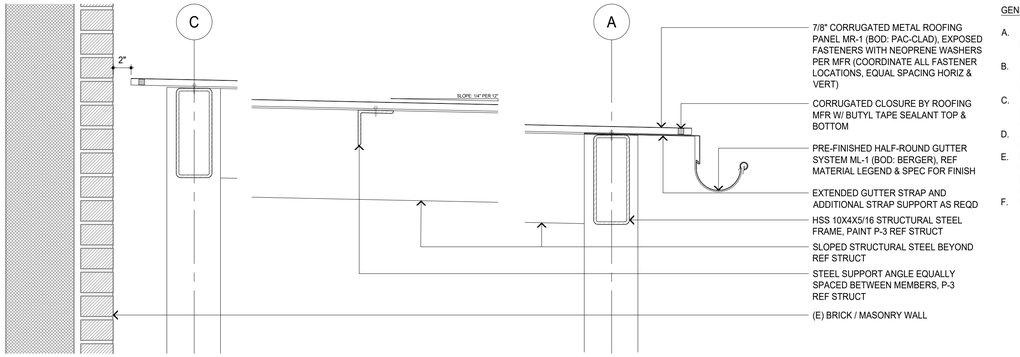
SHEET TITLE:
EXTERIOR DETAILS - STAIR AND RAILING

SHEET NUMBER:
A-500



3 SECTION DETAIL - TERRACE ROOF - RAISED ROOF AREA
A-501

1-1/2"=1'-0" 0 2" 4" 8" 16 IN

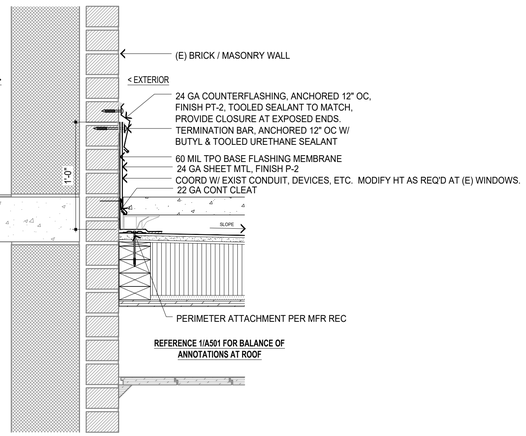


4 SECTION DETAIL - CORRUGATED METAL ROOFING
A-501

1-1/2"=1'-0" 0 2" 4" 8" 16 IN

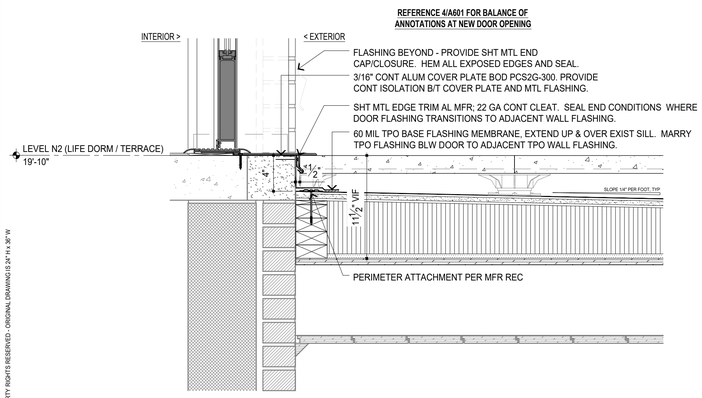
GENERAL NOTES:

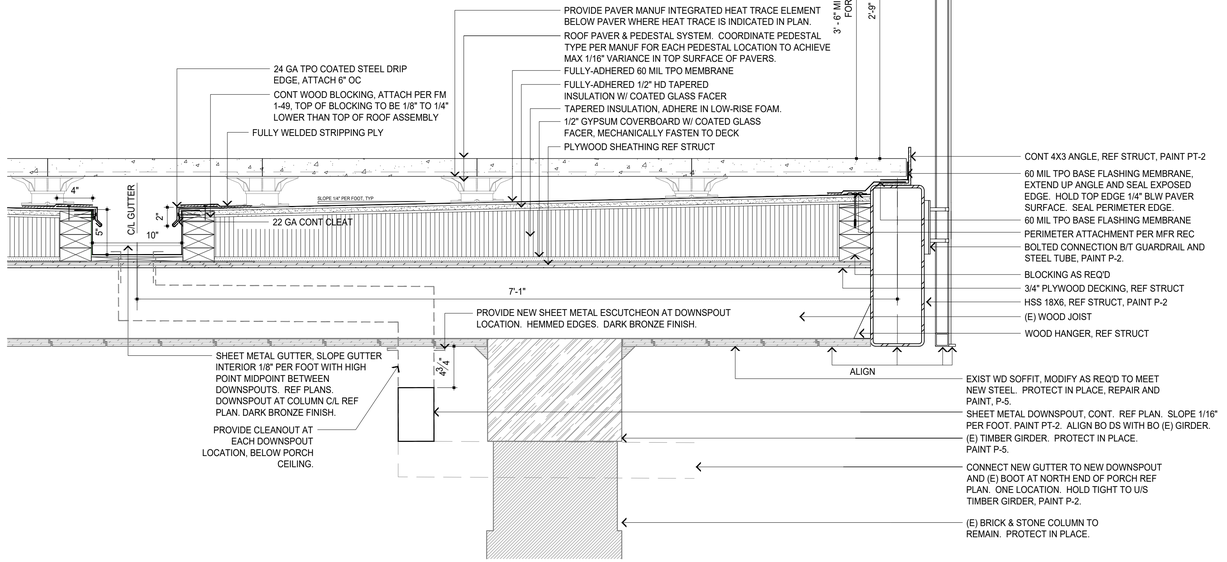
A. COMPLY WITH IECC REQUIREMENTS FOR ROOF REPLACEMENT WHERE THE ROOF COVERS AN OCCUPIED SPACE.
B. ALL FORMED METAL COMPONENTS INCLUDING FLASHING, GUTTER, AND DOWNSPOUTS TO COMPLY WITH SMACNA REQUIREMENTS.
C. ALL FORMED METAL COMPONENTS TO BE SHOP FINISHED PER MATERIAL LEGEND AND SPEC. FINISH PAINT HPC P-2 UNO.
D. ALL EXPOSED FORMED METAL EDGES TO BE HEMMED UNLESS OTHERWISE NOTED.
E. PROVIDE FULL ISOLATION OF NON-SIMILAR METALS. NON-METALLIC SHIM AT FASTENER LOCATIONS OR ISOLATION MEMBRANE BETWEEN NON-SIMILAR METALS TO PREVENT GALVANIC ACTION.
F. PROVIDE CRICKETS PER PLAN FOR POSITIVE DRAINAGE.



2 SECTION DETAIL - TERRACE ROOF - TYP WALL FLASHING
A-501

1-1/2"=1'-0" 0 2" 4" 8" 16 IN





1 SECTION DETAIL - TERRACE ROOF (AT DOOR)
A-501

1-1/2"=1'-0" 0 2" 4" 8" 16 IN

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CAD DWG FILE:
DRAWN BY: ABI
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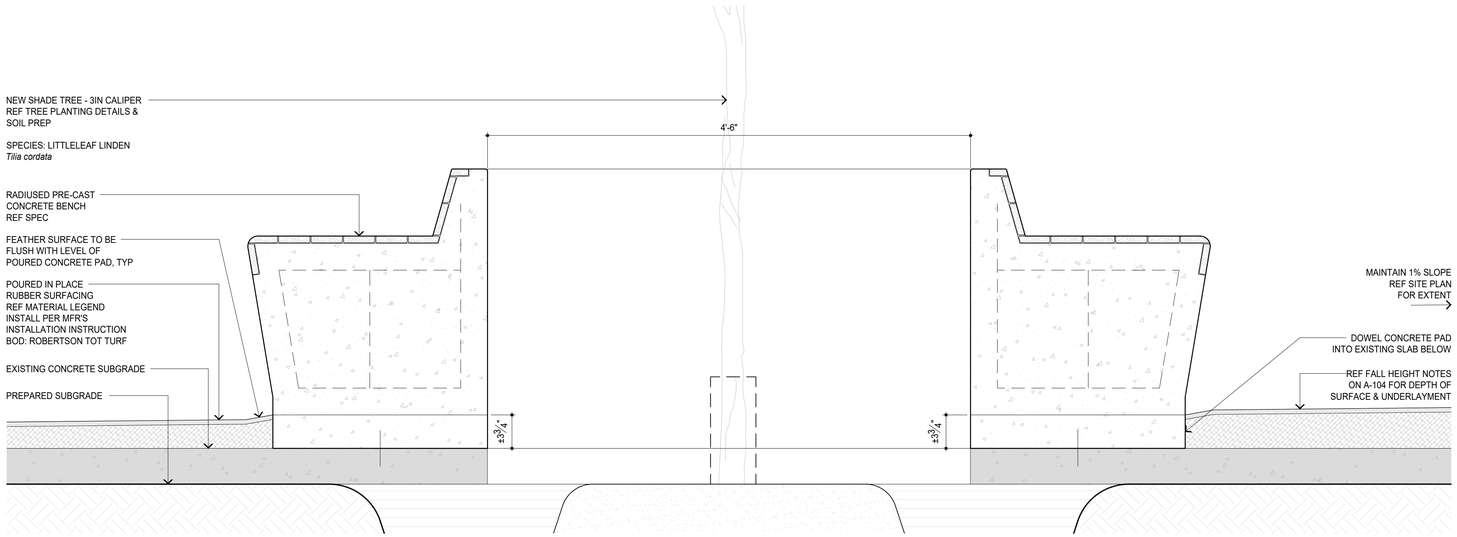
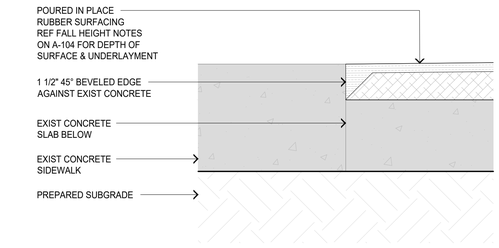
DESIGNED BY: API

SHEET TITLE:
EXTERIOR DETAILS - ROOF

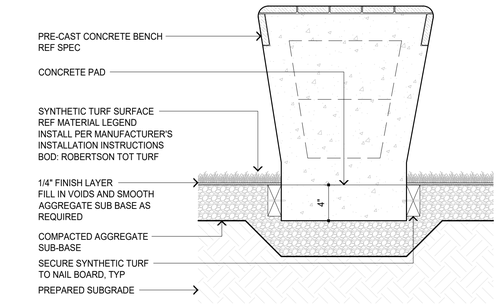
SHEET NUMBER:
A-501



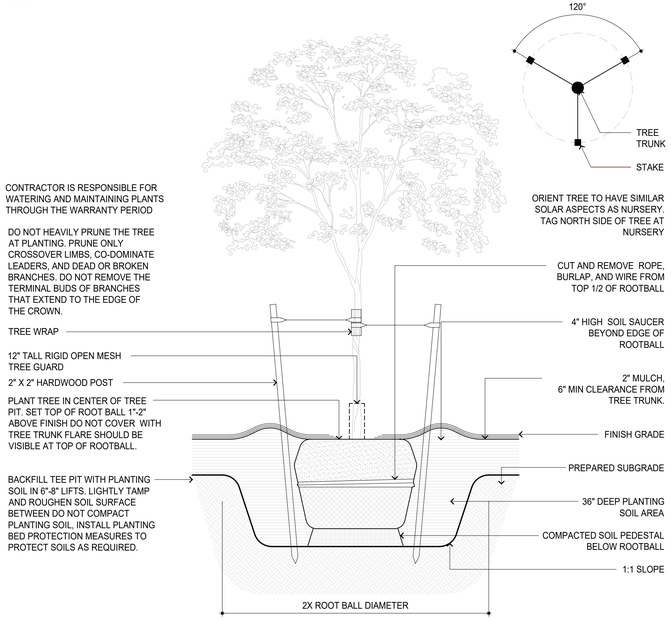
4 PRE-CAST CONCRETE BENCH AT POURED-IN-PLACE RUBBER SURFACING
A-502 — 1-1/2"=1'-0" — 0 2" 4" 8" 16 IN



5 POURED IN PLACE RUBBER SURFACING EDGE RESTRAINT
A-502 — 3" = 1'-0" — 0 1" 2" 4" 8 IN



3 PRE-CAST CONCRETE BENCH AT SYNTHETIC TURF SURFACE
A-502 — 1-1/2"=1'-0" — 0 2" 4" 8" 16 IN



2 TREE PLANTING & STAKING - TYPICAL
A-502 — 1/2"=1'-0" — 0 6" 1' 2' 4 FT

PROTECTION NOTES:

ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT WHICH IS STILL ATTACHED TO THE TREE. DO NOT PAINT THE CUT ROOT END.

ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATIONS OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED AND INSPECTED BY THE LANDSCAPE ARCHITECT OR ARCHITECT PRIOR TO TRENCHING.

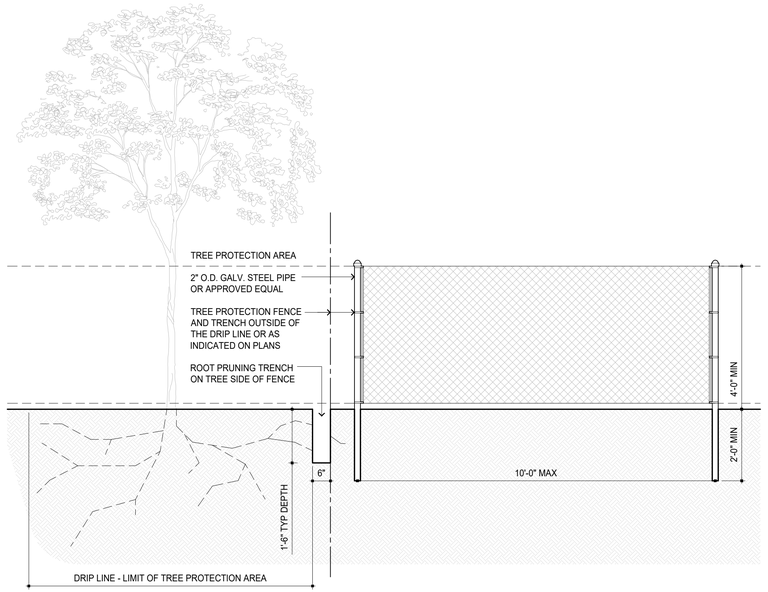
BACKFILL THE ROOT-PRUNING TRENCH WITH EXCAVATED SOIL AND MULCH. THE TRENCH SHALL NOT BE OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.

ROOT PRUNING WORK WILL NOT BE DONE WHEN MORE THAN THE TOP 1 INCH OF SOIL IS FROZEN. ROOT PRUNING WILL NOT BE UNDERTAKEN WHEN THE SOIL IS WET AND CONDITIONS ARE MUDDY.

TREE PROTECTION FENCE SHALL BE INSTALLED AND INSPECTED BY THE LANDSCAPE ARCHITECT OR ARCHITECT PRIOR TO ANY SITE WORK.

TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

REMOVE TREE PROTECTION FENCE ONLY AFTER ALL SITE WORK HAS BEEN COMPLETED.



1 TREE PROTECTION / ROOT PRUNING
A-502 — 1/2"=1'-0" — 0 6" 1' 2' 4 FT

PROTECTION NOTES:

ROOT PRUNING SHALL BE DONE WITH A TRENCHER OR VIBRATORY PLOW TO A DEPTH OF 18". ROOTS OVER 1.5" IN DIAMETER SHALL HAVE A CLEAN CUT MADE BY A CLEAN SAW ON THE SURFACE OF THE ROOT WHICH IS STILL ATTACHED TO THE TREE. DO NOT PAINT THE CUT ROOT END.

ROOT PRUNING SHALL TAKE PLACE PRIOR TO ANY CLEARING AND GRADING. EXACT LOCATIONS OF TREE PROTECTION AREAS SHALL BE STAKED OR FLAGGED AND INSPECTED BY THE LANDSCAPE ARCHITECT OR ARCHITECT PRIOR TO TRENCHING.

BACKFILL THE ROOT-PRUNING TRENCH WITH EXCAVATED SOIL AND MULCH. THE TRENCH SHALL NOT BE OPEN FOR LONGER THAN 48 HOURS WITHOUT WATERING.

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TREE PROTECTION FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

REMOVE TREE PROTECTION FENCE ONLY AFTER ALL SITE WORK HAS BEEN COMPLETED.

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

EGRESS STAIR

MISSOURI
SCHOOL FOR THE BLIND
3815 MAGNOLIA AVENUE
SAINT LOUIS, MO 63110

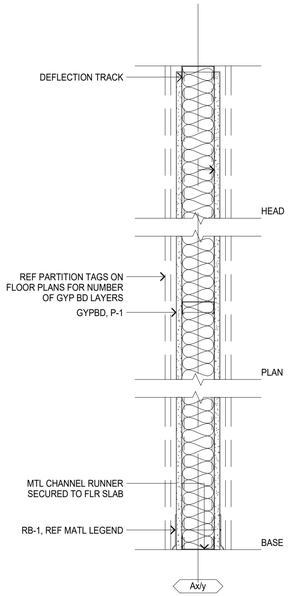
PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 202

CAD DWG FILE:
DRAWN BY: MM
CHECKED BY: ABI / EJC
DESIGNED BY: API

SHEET TITLE:
EXTERIOR
DETAILS - SITE

SHEET NUMBER:
A-502



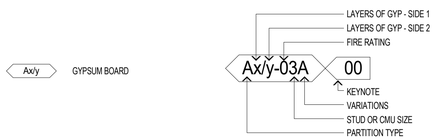
TYPICAL PARTITION
PARTITION ASSEMBLY (FROM LEFT TO RIGHT):
FINISH AS SCHEDULED
5/8" GYP BD: REF PARTITION TYPE FOR NUMBER OF LAYERS
MTL STUDS: REF PARTITION TYPE FOR SIZE
BATT INSULATION
5/8" GYP BD: REF PARTITION TYPE FOR NUMBER OF LAYERS
FINISH AS SCHEDULED

5 PARTITION TYPE
A-600 1 1/2" = 1'-0"

PARTITION TYPE GENERAL NOTES

1. REFERENCE SPECIFICATION SECTION 092900 GYPSUM BOARD ASSEMBLIES FOR BLOCKING AND OTHER ADDITIONAL REQUIREMENTS.
2. REFERENCE MATERIAL LEGEND ON DRAWING SHEET A-600 FOR ADDITIONAL INFORMATION.
3. PLAN DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
4. PATCH ANY HOLES, CRACKS, AND/OR OPENINGS ON ALL EXISTING WALLS / PARTITIONS / COLUMNS TO REMAIN AND PREPARE FOR NEW FINISH.
5. ALL FIRE-RATED PARTITION ASSEMBLIES SHALL MEET APPLICABLE CODE REQUIREMENTS.
6. ALL FIRE-RATED PARTITION ASSEMBLIES TO RECEIVE APPROPRIATE FIRE-SAFING PERIMETER AND PENETRATION TREATMENT, BASED ON SUBMITTED AND APPROVED TESTED SYSTEM DESIGN.
7. PROVIDE FIRE STOPPING AT ANY OPENINGS OR PENETRATIONS IN EXISTING AND NEW FIRE-RATED PARTITIONS.
8. WIDTH OF INSULATION SHALL FILL FRAMING CAVITY UNLESS OTHERWISE NOTED.
9. UNLESS OTHERWISE NOTED, ALL LAYERS FOR GYPSUM BOARD PARTITIONS TO SEAL TO HIGHEST POINT OF UNDERSIDE STRUCTURE. COPE GYPSUM BOARD IN CONCRETE COFFER VOIDS AND AROUND CONCRETE BEAMS, UNLESS OTHERWISE NOTED OR DETAILED. REFERENCE ACOUSTICAL (AC) DRAWINGS AND ASSOCIATED PARTITION HEAD DETAILS FOR TYPICAL DETAILS.

PARTITION CATEGORIES PARTITION TYPE SYMBOLS



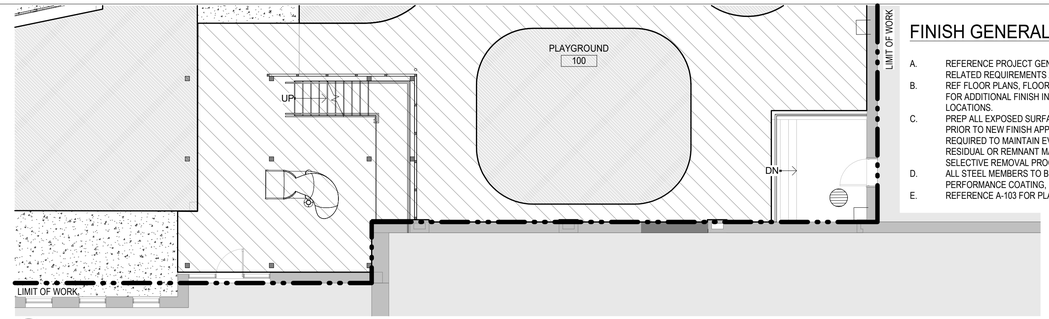
FIRE RATINGS:		METAL STUD SIZES:	
0	NON-RATED	0	7/8" FURRING
1	1-HR RATED	1	1-1/2" FURRING
2	2-HR RATED	2	2-1/2" STUD
3	3-HR RATED	3	3-5/8" STUD
4	4-HR RATED	4	4" STUD
5	1/2-HR RATED	6	6" STUD
		8	8" STUD

6 PARTITION TYPE LEGEND
A-600

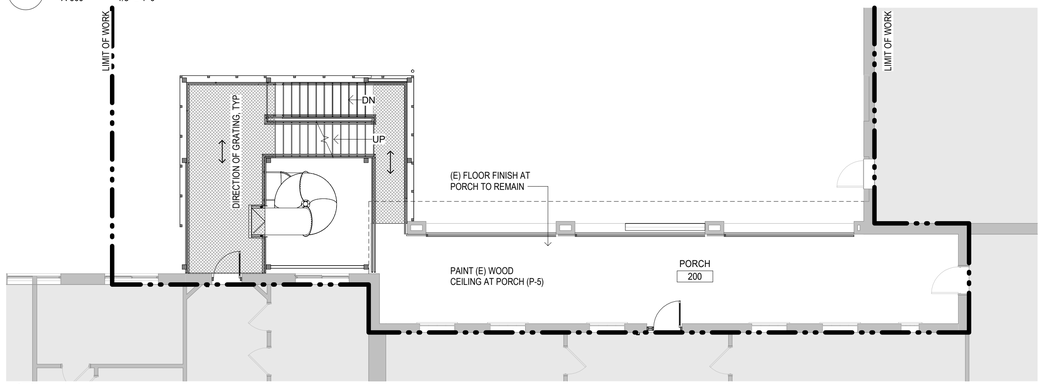
MATERIAL LEGEND

IDENTIFICATION		PRODUCT INFORMATION			
CODE	ITEM	BOD MANUFACTURER	TYPE	FINISH / COLOR	REMARKS
AL-1	ALUMINUM STOREFRONT SYSTEM	KAWNEER	ENCORE + TUFFLINE 500	CLEAR ANODIZED	NEW DOORS AND SIDE / TRANSOM LITE FRAMES
FC-1	FABRIC CANOPY SHADE SAIL	LAWRENCE FABRIC	NINETYFIVE 340FR	DRIFTWOOD 502348 (FR)	NON-COMBUSTIBLE, REF STRUCT & ARCH FOR ATTACHMENT INFORMATION
FG-1	FIBERGLASS GRATING	STRONGWELL	DURAGRID T-BAR PULTRUDED GRATING - T1800 MEDIUM GRIT	TNEMEC BLACK (GLOSS), EVERYWHERE EXCEPT NOSING. TNEMEC WHITE (GLOSS) NOSING.	NEW STAIR LANDINGS AND TREADS, ALL FIELD CUTS TO BE EDGE-SEALED
GL-1	VISION GLASS IGU	VIRACON	VRE24-54		ALL DOORS AND SIDELIGHTS, TEMPERED TYP
GL-2	SPANDREL GLASS IGU	VIRACON	VRE24-54	BACKPAINTED BLACK	GLASS TRANSOM LITE ABOVE NEW DOORS
ML-1	GUTTER AND DOWNSPOUT	BERGER	ALUMINUM	DARK BRONZE	WEST EDGE OF STAIR ROOF
MR-1	METAL ROOF	PAC-CLAD	7/8" PREFINISHED CORRUGATED METAL PANEL	DARK BRONZE	STAIR ROOF
MS-1	METAL SCREEN	CONSTRUCTION SPECIALTIES	40% PERFORATION	713 DARK BRONZE	CUSTOM SCREEN, SCHOOL LOGO PRINTED ON SOUTH FACE ONLY, REF A-200 FOR EXTENTS
P-1	PAINT	SHERWIN WILLIAMS		SW 7009 PEARLY WHITE	ALL NEW AND EXISTING INTERIOR WALLS WITHIN SCOPE AT LEVEL S3, EGGSHELL FINISH
P-2	HIGH-PERFORMANCE COATING	SHERWIN WILLIAMS		SW 7020 BLACK FOX	NEW GUARDRAILS, NEW HANDRAILS, AND NEW EXPOSED TUBE STEEL AT TERRACE AND CANOPY
P-3	HIGH-PERFORMANCE COATING	SHERWIN WILLIAMS		SW 6981 PASSIONATE PURPLE	NEW TUBE STEEL AT NEW STAIR
P-4	HIGH-PERFORMANCE COATING	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC	NEW METAL STAIR COMPONENTS
P-5	EXTERIOR PAINT	SHERWIN WILLIAMS	EXTERIOR	SW 7009 PEARLY WHITE	EXISTING WOOD CEILING AT EXTERIOR PORCH
P-6	PAINT	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC	INTERIOR DOOR FRAMES, SEMIGLOSS FINISH
PAV-1	PEDESTAL PAVER SYSTEM / 24X24	TILE TECH PAVERS	EARTH-TONE SERIES PORCELAIN PAVERS / 3/4" THICK	FLAT BONE (LIGHT)	PEDESTAL SYSTEM WITH HEX-TRAY WIND-UPLIFT SYSTEM / EGRESS PATH - INNER PAVERS / SNOW MELT SYSTEM BELOW
PAV-2	PEDESTAL PAVER SYSTEM / 24X24	TILE TECH PAVERS	EARTH-TONE SERIES PORCELAIN PAVERS / 3/4" THICK	FLAT SMOKE (DARK)	PEDESTAL SYSTEM WITH HEX-TRAY WIND-UPLIFT SYSTEM / EGRESS PATH - OUTER PAVERS / SNOW MELT SYSTEM BELOW
PAV-3	PEDESTAL PAVER SYSTEM / 24X24	TILE TECH PAVERS	IPE DECK TILES / 1-5/8" THICK	SEALED	SEAL PAVERS / EACH PAVER SAME DIRECTION, NORTH-SOUTH (REF FINISH PLAN)
RB-1	RESILIENT WALL BASE	TARKETT	BASEWORKS	BLACK	LEVEL S3, MATCH HEIGHT OF ADJACENT EXISTING BASE
RPS-1	RUBBER PLAYGROUND SURFACING	ROBERTSON RECREATIONAL SERVICES	TOTTURF - RESILIENT SAFETY SURFACING	LIGHT GREY	POURED-IN-PLACE, REF A-103 AND A-104
RPS-2	RUBBER PLAYGROUND SURFACING	ROBERTSON RECREATIONAL SERVICES	TOTTURF - RESILIENT SAFETY SURFACING	PURPLE	POURED-IN-PLACE, REF A-103 AND A-104
TS-1	TURF SURFACING	ROBERTSON RECREATIONAL SERVICES	TOTTURF - PROPLAY ELITE	GREEN	REF A-103 AND A-104

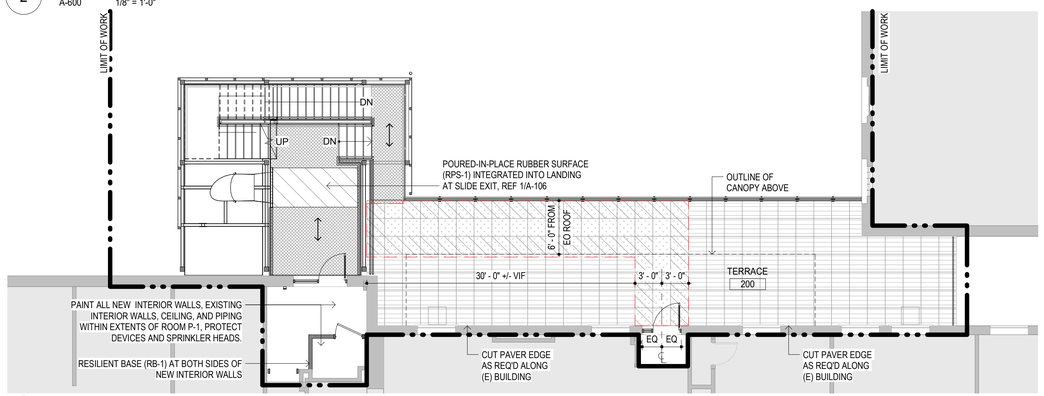
FG-1
PAV-1
PAV-2
PAV-3
FC-1
RPS-1
RPS-2
TS-1



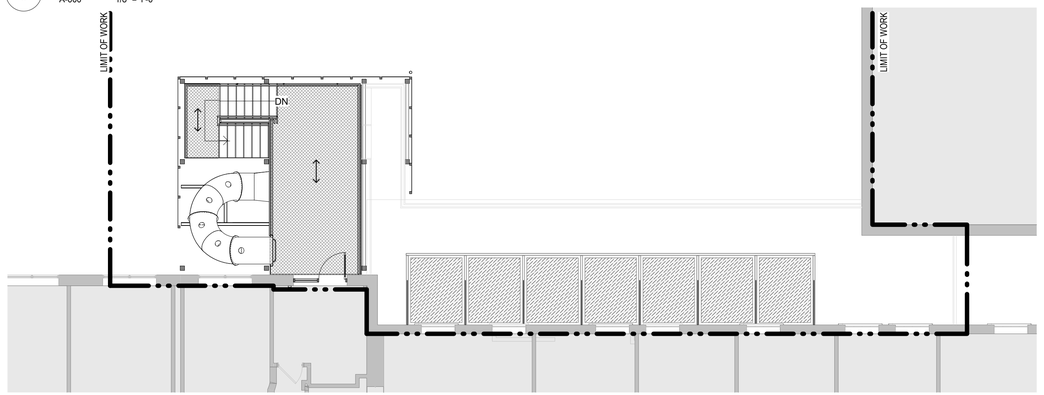
1 LEVEL S1 (PLAYGROUND)
A-600 1/8" = 1'-0"



2 LEVEL S2 / N1 (HEALTH CENTER / PORCH)
A-600 1/8" = 1'-0"



3 LEVEL S3 / N2 (E DORM / LIFE DORM)
A-600 1/8" = 1'-0"



4 LEVEL S4 / N3 (F DORM)
A-600 1/8" = 1'-0"

1/8" = 1'-0" 0 3' 6' 12' 18'

N

FINISH GENERAL NOTES

A. REFERENCE PROJECT GENERAL NOTES ON SHEET G-002 FOR RELATED REQUIREMENTS AND INFORMATION.
B. REF FLOOR PLANS, FLOOR FINISH KEY PLAN, AND DETAILS FOR ADDITIONAL FINISH INFORMATION, EXTENT, AND LOCATIONS.
C. PREP ALL EXPOSED SURFACES AND FINISHES TO REMAIN PRIOR TO NEW FINISH APPLICATION. PATCH AND REPAIR AS REQUIRED TO MAINTAIN EVEN FINISH INCLUDING REMOVAL OF RESIDUAL OR REMNANT MATERIAL / CONSTRUCTION FROM SELECTIVE REMOVAL PROCESS.
D. ALL STEEL MEMBERS TO BE PAINTED WITH HIGH-PERFORMANCE COATING, UON.
E. REFERENCE A-103 FOR PLAYGROUND EQUIPMENT FINISHES.

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

STATE OF MISSOURI
ANNA B.F. IVES
NUMBER A-2010013638
ARCHITECT
29 June 2026

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PROJECT # E2332-01
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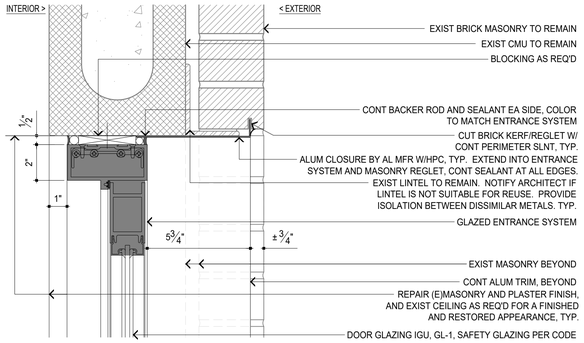
ISSUE DATE: 29 JUNE 2026

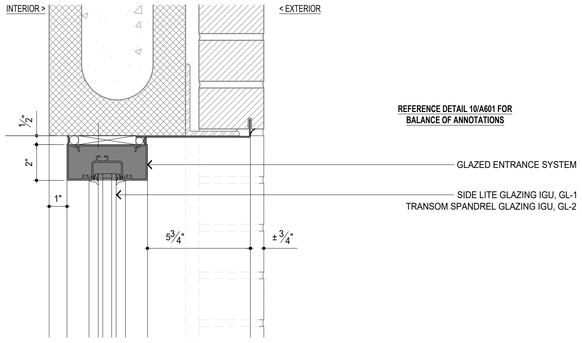
CAD DWG FILE:
DRAWN BY: EJC
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
MATERIAL LEGEND, FINISH PLANS, AND PARTITION TYPE

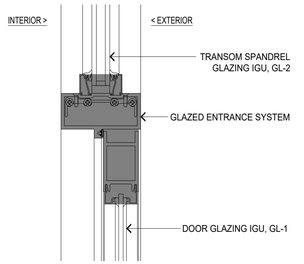
SHEET NUMBER:
A-600



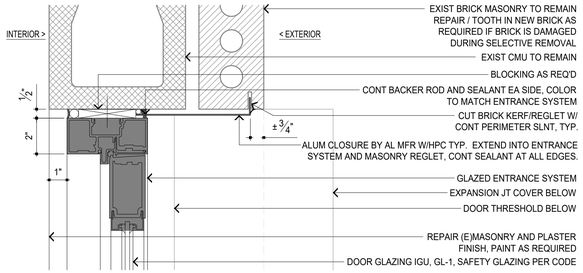
10 AL-H1 TYPICAL DOOR HEAD DETAIL
A-601 3"=1'-0"



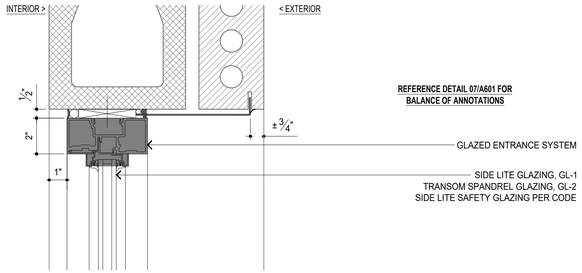
9 AL-H2 TYPICAL SIDE LITE/TRANSOM HEAD DETAIL
A-601 3"=1'-0"



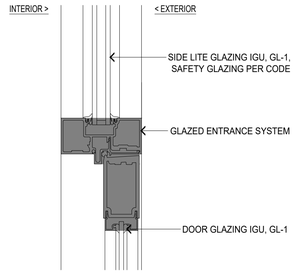
8 AL-H3 TYP TRANSOM BAR DETAIL
A-601 3"=1'-0"



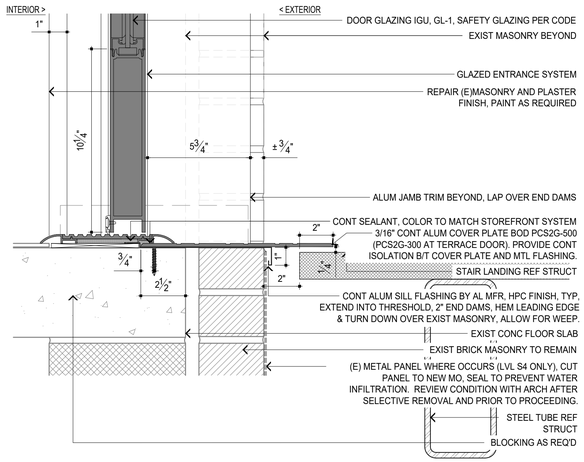
7 AL-J1 TYPICAL DOOR JAMB DETAIL
A-601 3"=1'-0"



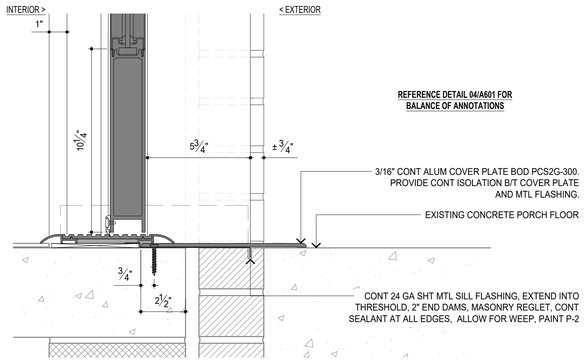
6 AL-J2 TYPICAL SIDE LITE/TRANSOM JAMB DETAIL
A-601 3"=1'-0"



5 AL-J3 TYP DOOR JAMB AT SIDE LITE
A-601 3"=1'-0"



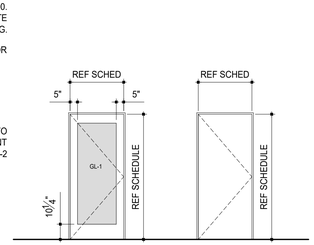
4 AL-S1 TYPICAL DOOR SILL AT STAIR LANDING OR PEDESTAL SYSTEM
A-601 3"=1'-0"



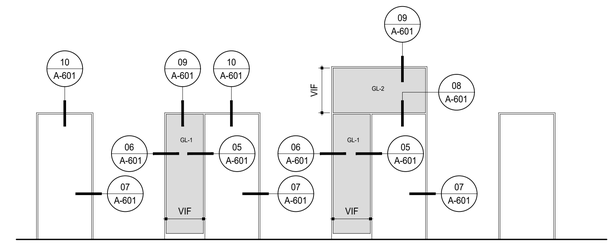
3 AL-S2 TYPICAL DOOR SILL AT COVERED PORCH
A-601 3"=1'-0"

DOOR SCHEDULE

IDENTIFICATION		DOOR					FRAME		HARDWARE	REMARKS	
NUMBER	ROOM NAME	TYPE	WIDTH	HEIGHT	THICKNESS	FINISH	TYPE	FINISH	GROUP	FIRE RATING	REMARKS
200	PORCH	A1	3'-0"	7'-0"	"	CLR ANODIZED/GL-1	AL-3	CLR ANODIZED	03	-	EGRESS DOOR; CARD READER, SILL DETAIL HM-S2, INFILL ENTIRE OPENING REF ELEVATIONS.
201	(E) CORRIDOR	A1	3'-0	6'-8	"	CLR ANODIZED/GL-1	AL-1	CLR ANODIZED	04	-	EGRESS DOOR; CARD READER, SILL DETAIL HM-S1, INFILL ENTIRE OPENING REF ELEVATIONS.
300	(E) CORRIDOR	A1	3'-0	7'-0"	"	CLR ANODIZED/GL-1	AL-3	CLR ANODIZED	03	-	EGRESS DOOR; CARD READER, SILL DETAIL 1/A501, INFILL ENTIRE OPENING REF ELEVATIONS.
301	ELEC/MECH	B1	3'-0	6'-8"	"	P-6	HMF-1	P-6	02	1 HR	
302	(E) CORRIDOR	A1	3'-0	7'-0"	"	CLR ANODIZED/GL-1	AL-2	CLR ANODIZED	04	-	EGRESS DOOR; CARD READER, SILL DETAIL HM-S1, INFILL ENTIRE OPENING REF ELEVATIONS.
302A	(E) CORRIDOR	-	-	-	"	-	(E)	P-6	01	-	CASED OPENING, NO DOOR.
400	(E) MECH/STORAGE	A1	3'-0	7'-0"	"	CLR ANODIZED/GL-1	AL-2	CLR ANODIZED	04	-	EGRESS DOOR; CARD READER, SILL DETAIL HM-S1, INFILL ENTIRE OPENING REF ELEVATIONS.



2 DOOR TYPES - ELEVATION
A-601 1/4"=1'-0"



REF DOOR SCHEDULE FOR SILL DETAIL CALLOUT

1 FRAME TYPES - ELEVATION
A-601 1/4"=1'-0"

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

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ANNA B.F. IVES
NUMBER A-2010013038
ARCHITECT
29 June 2026

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ISSUE DATE: 29 JUNE 202

CAD DWG FILE:
DRAWN BY: ABI
CHECKED BY: ABI
DESIGNED BY: API

SHEET TITLE:
DOOR SCHEDULE - DOOR DETAILS

SHEET NUMBER:
A-601

ELECTRICAL SYMBOLS

LUMINAIRES - REFER TO LUMINAIRE SCHEDULE

- LIGHTING FIXTURE
- EMERGENCY LIGHTING FIXTURE
- DOWN LIGHT (OR BOLLARD ON SITE)
- EMERGENCY DOWN LIGHT
- WALL WASH DOWN LIGHT
- EXIT SIGN - CEILING MOUNTED
- EXIT SIGN - WALL, FLAT MOUNTED
- EXIT SIGN - WALL, END MOUNTED
- EXIT SIGN NOTES: SHADING INDICATES ILLUMINATED FACE(S), SEE PLANS FOR DIRECTIONAL ARROWS
- EMERGENCY BATTERY WALL PACK
- TRACK LIGHT - SEE PLANS FOR LENGTHS
- POLE MOUNTED SITE LIGHTING FIXUTRE (NUMBER OF HEADS AS SHOWN)
- CEILING FAN (WITH LIGHT SHOWS ON LIGHTING SHEET, FAN ONLY SHOWS ON POWER SHEET)

LIGHTING CONTROL

- WALL SWITCH +48" AFF
- CEILING MOUNTED OCCUPANCY SENSOR
PIR - PASSIVE INFRARED
DT - DUAL TECHNOLOGY
US - ULTRASONIC
A - ANALOG TECHNOLOGY
- CEILING MOUNTED DAYLIGHT SENSOR
- PHOTOCELL, WALL OR CEILING MOUNTED
- LTS — LIGHTING TRANSFER SWITCH, SWITCHES POWER SOURCE - MOUNTED ABOVE ACCESSIBLE CEILING SPACE (UL1008)
- LTB — EMERGENCY LIGHTING CONTROL BYPASS RELAY, MOUNTED ABOVE ACCESSIBLE CEILING SPACE (UL924)
- WS — CEILING MOUNTED PARTITION WALL SENSOR, PARTITION CLOSED BREAKS LINE OF SIGHT BETWEEN 2 SENSORS
- RPS — REMOTE POWER SUPPLY/ REMOTE DRIVER
- LC1 — 1 ZONE 0-10V LIGHTING CONTROLLER
- LC2 — 2 ZONE 0-10V LIGHTING CONTROLLER
- LC3 — 3 ZONE 0-10V LIGHTING CONTROLLER
- LD1 — 1 ZONE 0-10V DIMMING LIGHTING CONTROLLER
- LD2 — 2 ZONE 0-10V DIMMING LIGHTING CONTROLLER
- LD3 — 3 ZONE 0-10V DIMMING LIGHTING CONTROLLER
- LF1 — 1 ZONE FORWARD PHASE LIGHTING CONTROLLER
- LF2 — 2 ZONE FORWARD PHASE LIGHTING CONTROLLER
- LR1 — 1 ZONE REVERSE PHASE LIGHTING CONTROLLER
- BAS — LIGHTING CONTROL RELAY FOR BAS INTEGRATION
- NB — LIGHTING CONTROL NETWORK BRIDGE
- LVR — ELECTRONIC LINE VOLTAGE TO 0-10V CONTROL RELAY
- PL — PLUG LOAD LIGHTING CONTROLLER
- TC — TIME CLOCK
- iACE — LIGHTING CONTROL HEAD END PROCESSOR
- LRP# — LIGHTING RELAY PANEL - SEE RELAY PANEL SCHEDULE

LIGHTING CONTROL SUBSCRIPT TAGS

* =	
	BLANK = SINGLE POLE TOGGLE SWITCH
3	3-WAY TOGGLE SWITCH
4	4-WAY TOGGLE SWITCH
A	ANALOG TECHNOLOGY OCCUPANCY SENSOR
CP	ROOM CONTROL PANEL
CS#	DIGITAL LIGHTING CONTROL STATION # = NUMBER OF BUTTONS, UP TO 8
CSD	DIGITAL LIGHTING CONTROL STATION - DIMMING
D	DIMMER
3D	3-WAY DIMMER SWITCH
DT	DUAL TECHNOLOGY OCCUPANCY SENSOR
DTS	DIGITAL TOUCHSCREEN
K	KEY OPERATED TOGGLE SWITCH
LV	LOW VOLTAGE MOMENTARY SWITCH
LVD	LOW VOLTAGE SWITCH WITH DIMMING
OS	OCCUPANCY SENSOR
OSD	OCCUPANCY SENSOR WITH DIMMMING
PIR	PASSIVE INFRARED OCCUPANCY SENSOR
PL	PILOT LIGHTED TOGGLE SWITCH
R	RELAY SWITCH, SINGLE POLE DOUBLE THROW CENTER OFF MOMENTARY SWITCH
SHC	SHADE CONTROLLER
SPC	FAN SPEED CONTROLLER
T	DIGITAL TIMER SWITCH
US	ULTRASONIC OCCUPANCY SENSOR
VS	VACANCY SENSOR
VSD	VACANCY SENSOR WITH DIMMER
WL	WIRELESS
XP	EXPLOSION PROOF

DEVICE HEIGHTS AS ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.

RECEPTACLES

- SINGLE RECEPTACLE, RECESSED WALL MOUNTED +18" AFF
- * DUPLEX RECEPTACLE, RECESSED WALL MOUNTED +18" AFF
- * DUPLEX RECEPTACLE, RECESSED WALL MOUNTED AT +44" AFF, UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE WITH TOP OUTLET SWITCHED, BOTTOM OUTLET SHALL BE UNSWITCHED RECESSED WALL MOUNTED +18" AFF
- SWITCHED DUPLEX RECEPTACLE, CONTROLLED BY SWITCHED CIRCUIT, RECESSED WALL MOUNTED +18" AFF
- * QUADRUPLEX RECEPTACLE, RECESSED WALL MOUNTED +18" AFF
- * QUADRUPLEX RECEPTACLE, RECESSED WALL MOUNTED ABOVE COUNTER +44" AFF
- DUPLEX RECEPTACLE, RECESSED CEILING MOUNTED
- QUADRUPLEX RECEPTACLE, RECESSED CEILING MOUNTED
- NEMA X-X — SPECIAL PURPOSE RECEPTACLE, RECESSED WALL MOUNTED +18" AFF SEE PLAN FOR SIZE/TYPE
- DUPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
- QUADRUPLEX RECEPTACLE, RECESSED FLOOR MOUNTED
- GFCI — DEAD FRONT / FACELESS GCFI DEVICE RECESSED WALL MOUNTED +18" AFF, PROTECTS DOWNSTREAM DEVICE
- J — 4"X4"X2" JUNCTION BOX WITH FINISHED BLANK COVER, RECESSED WALL MOUNTED 18" AFF

RECEPTACLE SUBSCRIPT TAGS

* =	
CR	CORD REEL, SUPPORTED FROM STRUCTURE
G	GROUND FAULT CIRCUIT INTERRUPTING
H	HORIZONTALLY ORIENTED
HG	HOSPITAL GRADE
IG	ISOLATED GROUND
P	'DOWNSTREAM PROTECTED' BY GFCI DEVICE ON SAME CIRCUIT
TR	TAMPER RESISTANT
U	DUPLEX WITH 2 USB PORTS
WP	WEATHERPROOF 'WHILE IN USE' COVER
WR	WEATHER RESISTANT
XP	EXPLOSION PROOF

DEVICE HEIGHTS AS ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
ARC	ALUMINUM RIGID CONDUIT
AUX	AUXILIARY
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COF	CENTER OF FIXTURE
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
G	GROUND FAULT CIRCUIT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
IMC	INTERMEDIATE METAL CONDUIT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
NC	NORMALLY CLOSED
NF	NON FUSED
NL	UNSWITCHED NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PVC	PVC CONDUIT
TOF	TOP OF FIXTURE
U	USB PORT
UCR	UNDERCABINET RECESSED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
WPI	WEATHERPROOF IN-USE COVER

DATA / COMMUNICATION DEVICES

- COMMUNICATIONS OUTLET, RECESSED WALL MOUNTED AT 18"AFF. SEE PLANS FOR NUMBER OF AND TYPES OF JACKS
- COMMUNICATIONS OUTLET, RECESSED WALL MOUNTED AT 44"AFF. SEE PLANS FOR NUMBER OF AND TYPES OF JACKS
- COMMUNICATIONS OUTLET, RECESSED FLOOR MOUNTED. SEE PLANS FOR NUMBER OF AND TYPES OF JACKS
- COMMUNICATIONS OUTLET, RECESSED IN CEILING OR SURFACE AT STRUCTURE. SEE PLANS FOR NUMBER OF AND TYPES OF JACKS

DATA / COMMUNICATIONS SUBSCRIPT TAGS

* =	
AOR	AREA OF REFUGE INTERCOM STATION
CAM	CAMERA ROUGH-IN
D	DATA
F	SUPPLIED BY FURNITURE MANUFACTURER, INSTALLED AND CONNECTED BY E.C.
FO	FIBER OPTIC
I	INTERCOM
ICS	INTERCOM CALL-IN STATION
M	MICROPHONE
RI	ROUGH-IN ONLY WITH BLANK COVER PLATE
T	TELEPHONE
TV	TELEVISION
WAP	WIRELESS ACCESS POINT
XP	EXPLOSION PROOF

DEVICE HEIGHTS AS ABOVE UNLESS OTHERWISE NOTED ON DRAWINGS.

- S — SPEAKER RECESSED CEILING MOUNTED
- S — SPEAKER, WALL MOUNTED - REFER TO AUDIO/VISUAL DETAIL SHEET
- V — SPEAKER VOLUME CONTROL RECESSED WALL MOUNTED +54" AFF
- PB — PROGRAM BELL WALL MOUNTED +90"AFF
- CLOCK WALL MOUNTED +90"AFF
- CLOCK OUTLET WALL MOUNTED +90"AFF

SECURITY

- CAMERA WALL MOUNTED +9'-0"AFF
F=FIXED, PTZ=PAN-TILT-ZOOM
- CAMERA CEILING MOUNTED
F=FIXED, PTZ=PAN-TILT-ZOOM
- CR — CARD READER
- DE — DELAY EGRESS
- DC — DOOR CONTACT / DOOR POSITION
- DPS — DOOR POWER SUPPLY
- DS — DOOR SENSOR
- DU — DOOR UNLOCK SELECTOR SWITCH
- EE — ELECTRIC EXIT
- EL — ELECTRIC LOCK
- ES — ELECTRIC STRIKE
- EA — EXIT ALARM
- ER — EXIT REQUEST
- GB — GLASS BREAKAGE DETECTOR
- KS — KEY SWITCH
- LL — LIQUID LEVEL SENSOR
- ML — MAGNETIC LOCK
- MD — MOTION DETECTOR
- LRM — LONG RANGE MOTION DETECTOR
- KP — NUMERIC KEYPAD
- PB — PANIC BUTTON
- PT — POWER TRANSFER
- RH — ROOF HATCH SENSOR
- TS — TEMPERATURE SENSOR
- VM — CCTV/SECURITY VIDEO MONITOR

POWER EQUIPMENT

- SINGLE SECTION PANELBOARD
- TWO SECTION PANELBOARD
- DISTRIBUTION PANEL
- SWITCHBOARD
- PAD MOUNTED TRANSFORMER, SEE PLAN FOR TYPE AND SIZE
- ATS — AUTOMATIC TRANSFER SWITCH
- PWCP — FACTORY WIRED CONTROL PANEL
- VFD — VARIABLE FREQUENCY DRIVE
- M PL — SINGLE PHASE MANUAL MOTOR STARTER WITH PILOT LIGHT
- RIB — RELAY IN BOX
- DISCONNECT SWITCH
- MAGNETIC STARTER
- COMBINATION MAGNETIC STARTER/ DISCONNECT SWITCH
- T — LINE VOLTAGE THERMOSTAT
- GB — GROUND BUS BAR AT 18"AFF
- C — CONTACTOR AT 48"AFF
- M — UTILITY METER
- RGA — REMOTE GENERATOR ANNUNCIATOR AT 48"AFF
- PUSH-BUTTON RECESSED WALL MOUNTED +48" AFF
- PUSH PLATE BUTTON RECESSED WALL MOUNTED +48" AFF
- MUSHROOM HEAD/EMERGENCY PUSH BUTTON RECESSED WALL MOUNTED +48" AFF

WIRING SYMBOLS

- CONDUIT DOWN
- CONDUIT UP
- CONDUIT CAPPED
- CONDUIT BREAK/CONTINUED
- CONDUIT STUB WITH GROMMET
- GROUND
- EXISTING
- DEMOLITION WORK
- NEW WORK
- CONDUIT CONCEALED IN SLAB OR IN ACCESSIBLE SPACE BELOW
- CONDUIT EXPOSED
- CONDUIT CONCEALED IN WALL OR ABOVE CEILING
- VERTICAL WIREWAY
- CABLE TRAY
- CONDUIT SLEEVE (SIZED TO 40% FILL, 2" MINIMUM) UNLESS NOTED OTHERWISE

MOUNTING HEIGHTS

ALL MOUNTING HEIGHTS ARE AS GIVEN UNLESS OTHERWISE NOTED ON PLANS.
ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS OTHERWISE NOTED.

FIRE ALARM

- FACP — FIRE ALARM CONTROL PANEL
- FATP — FIRE ALARM TRANSPONDER PANEL
- FAAN — FIRE ALARM ANNUNCIATOR
- RPS — FIRE ALARM REMOTE POWER SUPPLY
- RM — REMOTE MICROPHONE
- F * — MANUAL PULL STATION (C = PROTECTIVE COVER)
- S * — SMOKE DETECTOR (CEILING MOUNTED)
(SB = SOUNDER BASE / RB = RELAY BASE)
- F SD * — SMOKE DETECTOR (WALL MOUNTED)
(SB = SOUNDER BASE / RB = RELAY BASE)
- D * — DUCT MOUNTED SMOKE DETECTOR
(S = SUPPLY / R = RETURN)
- D * — DUCT SMOKE DETECTOR (WALL/VERTICALLY MOUNTED)
(S = SUPPLY / R = RETURN)
- H * — HEAT DETECTOR (CEILING MOUNTED)
(FT = FIXED TEMPERATURE / RR = RATE OF RISE)
- H * — HEAT DETECTOR (WALL MOUNTED)
(FT = FIXED TEMPERATURE / RR = RATE OF RISE)
- AV * — AUDIBLE/VISUAL NOTIFICATION APPLIANCE (HORN)
(CEILING MOUNTED) XX cd = CANDELA RATING
- V * — VISUAL NOTIFICATION APPLIANCE
(CEILING MOUNTED) XX cd = CANDELA RATING
- SV * — SPEAKER/VISUAL NOTIFICATION APPLIANCE (VOICE)
(CEILING MOUNTED) XX cd = CANDELA RATING
- SP * — SPEAKER NOTIFICATION APPLIANCE (VOICE)
(CEILING MOUNTED) XW = WATTAGE TAP
- AV * — AUDIBLE/VISUAL NOTIFICATION APPLIANCE (HORN)
(WALL MOUNTED) XX cd = CANDELA RATING
- V * — VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED)
XX cd = CANDELA RATING
- SV * — SPEAKER/VISUAL NOTIFICATION APPLIANCE (VOICE)
(WALL MOUNTED) XX cd = CANDELA RATING
- SP * — SPEAKER NOTIFICATION APPLIANCE (VOICE)
(WALL MOUNTED) XW = WATTAGE TAP
- B * — BELL APPLIANCE (WALL MOUNTED)
- R — RELAY
- MM S/D — MONITOR MODULE
(SINGLE / DUAL - SINGLE IF NOT MARKED)
- CM — CONTROL MODULE
(PROVIDE RELAY IF CONTACT RATING IS EXCEEDED)
- PH — FIRE FIGHTER'S PHONE JACK
- DH W/F — DOOR HOLDER (W = WALL MOUNTED / F = FLOOR MOUNTED - WALL IF NOT MARKED)
- RT — REMOTE TEST STATION
- RL — REMOTE DEVICE LED INDICATOR
- TSM — TRANSIENT SUPPRESSION MODULE
- ISO — ISOLATION MODULE
- TS — TAMPER SWITCH (BY OTHERS)
- FS — FLOW SWITCH (BY OTHERS)
- PSW — HI / LOW PRESSURE SWITCH (BY OTHERS)
- MSD — MOTORIZED FIRE/SMOKE DAMPER (BY OTHERS)
- PIV — POST INDICATOR VALVE (BY OTHERS)
- PSR — POWER SUPERVISION RELAY
- END OF LINE RESISTOR

FIRE ALARM SUBSCRIPT TAGS

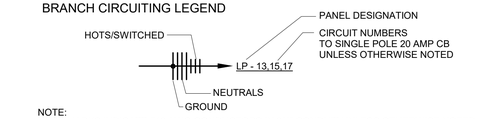
* =	
CV	CONVENTIONAL 120 VOLT DEVICE
WG	WIRE GUARD
WP	WEATHERPROOF
XP	EXPLOSION PROOF

DEVICE HEIGHTS AS BELOW
UNLESS OTHERWISE NOTED ON DRAWINGS:

WALL MOUNTED ANNUNCIATOR +48"AFF
WALL MOUNTED MICROPHONE OR JACK +48"AFF
WALL MOUNTED NOTIFICATION DEVICE +80"AFF
WALL MOUNTED PULL STATION +48"AFF
WALL MOUNTED DETECTOR +80"AFF

COORDINATE FIRE ALARM RELAYS, MODULES, AND DUCT/PIPE MOUNTED DEVICES WITH OTHER TRADES

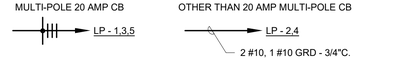
BRANCH CIRCUITING LEGEND

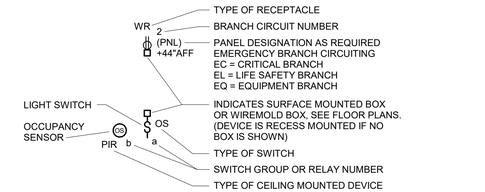


NOTE:
HASH MARKS INDICATE #12 AWG CONDUCTORS IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
A SINGLE SIZE INDICATES ALL CONDUCTORS IN THE HOMERUN ARE THAT SIZE.
SEE FLOOR PLANS AND SCHEDULES FOR OTHER FEEDER CONDUCTORS AND CONDUIT SIZES.

20A BRANCH CIRCUIT HOMERUNS SHALL BE SIZED AS FOLLOWS:
120V: 0-100 FEET SHALL BE #12 AWG MINIMUM
101-200 FEET SHALL BE #10 AWG MINIMUM
IN EXCESS OF 200 FEET SHALL BE #8 AWG MINIMUM

277V: 0-250 FEET SHALL BE #12 AWG MINIMUM
IN EXCESS OF 250 FEET SHALL BE #10 AWG MINIMUM





ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME
E-000	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E-020	LIGHTING SCHEDULES, DETAILS, DIAGRAMS
E-021	LIGHTING SCHEDULES, DETAILS, DIAGRAMS
E-022	LIGHTING SCHEDULES, DETAILS, DIAGRAMS
E-101	FLOOR PLANS - ELECTRICAL DEMOLITION
E-102	FLOOR PLANS - ELECTRICAL DEMOLITION
E-103	SITE PLAN - ELECTRICAL
E-201	FLOOR PLANS - LIGHTING
E-202	FLOOR PLANS - LIGHTING
E-301	FLOOR PLANS - ELECTRICAL
E-302	FLOOR PLANS - ELECTRICAL

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PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
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ISSUE DATE: 29 JUNE 2026

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DRAWN BY: MPH
CHECKED BY: MJC
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SHEET TITLE:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

SHEET NUMBER:
E-000

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LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	APPROVED EQUALS	DESCRIPTION	VOLTAGE	WATTAGE	CCT	CRI	DIMMING TYPE	MOUNTING	REMARKS
AA	KLIK	LP40 35K A 15XX FR 500 BLK (INCLUDE DRIVER CABINET)	WAGNER	EXTERIOR HANDRAIL LIGHTING	24V/120	2.0W	3500K	90+	0-10V	INTEGRAL HANDRAIL	PROVIDE REMOTE DRIVER FOR APPROXIMATELY EVERY 60 FEET OF LIT HANDRAIL (OR PER APPROVED MANUFACTURERS RECOMMENDATION). PROVIDE DRIVERS IN ACCESSIBLE LOCATION OUT OF VIEW. A PRE-INSTALLATION MEETING SHALL TAKE PLACE WITH CONTRACTORS TO ENSURE APPROVED DOCUMENTS ARE PROVIDED WITH CORRECT DRIVER AND LIGHT NODE LOCATIONS. PROVIDE DETAILED SHOP DRAWINGS OF STEEL WITH PRE-DRILLED LIGHTING NODE LOCATIONS SHOWN WITH DIMENSIONS AND PREFERRED DRIVER BOX LOCATIONS/ DISTANCE LIMITATIONS. LOCATE LED NODE IN PRE-DRILLED HOLES EVERY 2'-0" CENTERED BETWEEN HANDRAIL SUPPORTS, PROVIDE 12 AWG WIRING (OR AS REQUIRED). REMOTE POWER SUPPLY LOCATIONS ARE SHOWN ON LIGHTING DRAWING FOR REFERENCE ONLY. (APPROXIMATELY 330' OF LIT HANDRAIL)
DA	BROWNLEE	7200 TZ L32 35K 90R	AS REQUIRED	EXTERIOR SURFACE DOWNLIGHT	120V	32W	3500K	90+	0-10V	SURFACE/ JBOX	
GA	WILLIAMS	ASM 4 L46 935 S S	AS REQUIRED	LOW-PROFILE ARCHITECTURAL SURFACE WRAP	120V	33W	3500K	90+	0-10V	CEILING/ SURFACE	
GB	WILLIAMS	75R L50 935 FP GEN	ACUITY ZL1N DAYBRITE FSS METALUX SNX	4FT ROUND FULL FROSTED LENSED STRIP	120V	50W	3500K	90+	0-10V	SUSPENDED OR SURFACE	
SA	VISTA	1043 B MF 35 F MV ND HS/HL (CP-150)	HYDREL BULLARD	LANDSCAPE FLOOD	120V	20W	3500K	80	NON-DIMMING	STAKE	PROVIDE WITH MANUFACTURER STAKE FOR MOUNTING
WA	ISOLITE	ODM 10 EM BA MM SD/3200K	SIGNTEX MUE	EXTERIOR EGRESS BATTERY UNIT	120V	10W	3200K	-	0-10V	MULLION	ILLUMINATES ONLY IN THE EVENT OF POWER FAILURE
WB	BROWNLEE	BRICK-OD 7077 2 TZ H24	AS REQUIRED	EXTERIOR WALL SCONCE	120V	24W	3500K		TRIAC	WALL	PROVIDE SURFACE CONDUIT ON FAÇADE. EXTENDED BACKBOX WITH CONDUIT PASS-THROUGH ENTRY/ EXIT. COORDINATE DRILLING REQUIREMENTS WITH APPROVED MANUFACTURER. PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT
XA	WILLIAMS	EXIT/EM/W SF R BLK D	AS REQUIRED	COMBINATION EXIT SIGN/ EMERGENCY UNIT EXTERIOR RATED	120V	3.1	RED	-	-	WALL/ SURFACE	PAINT ALL EXPOSED CONDUIT AS REQUIRED. REFER TO ELECTRICAL PLANS FOR REQUIRED ARROWS/MOUNTING. SELF-TESTING.
XB	DUAL-LITE	EVEURW-EI	AS REQUIRED	SINGLE-FACED EXIT SIGN	120V	2	RED	-	-	CEILING	REFER TO ELECTRICAL PLANS FOR REQUIRED ARROWS/MOUNTING. SELF-TESTING.
XC	DUAL-LITE	EVCURW-I	AS REQUIRED	COMBINATION EXIT SIGN/ EMERGENCY UNIT DOUBLE-FACED	120V	3.1	RED	-	-	CEILING	REFER TO ELECTRICAL PLANS FOR REQUIRED ARROWS/MOUNTING. SELF-TESTING.

GENERAL NOTE:
LIGHT FIXTURE SUBSTITUTIONS TO THE BASIS OF DESIGN MUST BE EQUAL QUALITY, EQUAL PERFORMANCE, AND SUBMITTED 10 DAYS PRIOR TO BIDDING FOR PRE-APPROVAL. REFERENCE DIVISION 01 - 'GENERAL REQUIREMENTS' OF THE CONTRACT SPECIFICATIONS FOR PROCESS REQUIRED FOR PRE-APPROVAL. NO SUBSTITUTIONS WILL BE REVIEWED AFTER BASE-BIDS ARE ACCEPTED. .

LIGHTING INVERTER SCHEDULE

INVERTER DESIGNATION	LOCATION	MOUNTING	OUTPUT RATING (VA)		INPUT VOLTAGE	OUTPUT VOLTAGE	DIMMING BY-PASS	DIMMING CONTROL	OUTPUT CIRCUIT QTY.		WARRANTY (YEARS)		MANUFACTURER-MODEL	REMARKS
			NORMAL	EMERGENCY					NORMALLY ON	NORMALLY OFF	UNIT	BATTERY-PRORATED		
INV-A	ELEC/ MECH 300	WALL/STRUCTURE	750	750	120,1P2W	120,1P2W	YES	YES	1	N/A	2 YEARS	9 YEARS	MYERS LV4 R 1	INVERTER SERVES NEW EGRESS STAIR AND ADJACENT AREA(S)

GENERAL NOTES:
1.

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CAD DWG FILE:
DRAWN BY: SW
CHECKED BY: MJC
DESIGNED BY: SW

SHEET TITLE:
LIGHTING SCHEDULES, DETAILS, DIAGRAMS

SHEET NUMBER:
E-020

LIGHTING CONTROL MATRIX

ROOM TYPE	OCCUPANCY SENSOR							CONTROL INTERFACE					DIMMING TYPE				DAY LIGHT CTL			TIME CONTROL			SYSTEM							PHOTOCELL			ADDITIONAL INFORMATION
	MANUAL ON	AUTO ON	AUTO-OFF (MINUTES)	PARTIAL OFF - NORMAL HOURS	AUTO OFF - AFTER HOURS	WALL OCCUPANCY/VACANCY	CEILING OCCUPANCY/VACANCY	WALL SWITCH	DIMMER SWITCH	SCENE CONTROL	OVERRIDE SWITCH	DIGITAL TIMER	FULL RANGE	MULTI-ZONE	STEP DIMMING	NON-DIM	DAY LIGHT HARVESTING	CONTINUOUS DIMMING	ON/OFF	TIME ON	TIME OFF	ASTRONOMICAL	PLUG LOAD	STANDALONE	ANALOG	NETWORK	DIGITAL	BAS INTEGRATION	AV INTEGRATION	SHADE CONTROL	ON	OFF	OVERRIDE	
EXTERIOR STAIR TOWER		100%			50%								X							DUSK	DAWN					X	X	X				X	PROVIDE DIGITAL TOUCHSCREEN - AUTO-OFF TO 50% AT NIGHT SHALL BE COORDINATED WITH CLIENT DURING FINAL PROGRAMMING
EXTERIOR EGRESS DOOR		X											X													X	X	X					MULLION MOUNT - ON ONLY IN THE EVENT OF POWER FAILURE
EXTERIOR PORCH/ TERRACE		X	20				X			X			X							DUSK	DAWN					X	X	X				X	PROVIDE DIGITAL TOUCHSCREEN - AUTO-OFF TO 50% AT NIGHT SHALL BE COORDINATED WITH CLIENT DURING FINAL PROGRAMMING
ELEC/MECH	X															X								X				X					SWITCH ONLY - SAFETY PRECAUTION
VESTIBULE/CORRIDOR	X		20				X	X								X						X				X	X	X					
STORAGE	X		5													X								X				X					
LANDSCAPE																X						X				X	X					X	

GENERAL NOTES:
1. CONTROL DEVICE QUANTITIES SHOULD BE SELECTED FROM THE ELECTRICAL DRAWINGS, NOT THIS SPREADSHEET.
2. NETWORKING REQUIREMENTS TO BE DETERMINED BY EACH MANUFACTURER. SEE NETWORK COLUMN ABOVE. ALL AREAS DENOTED AS NETWORK SHALL BE CONNECTED TO LIGHTING CONTROL SYSTEM (EXISTING WATTSTOPPER VANTAGE SYSTEM) ALLOWING FOR TIME BASED CONTROL NEEDS AND BAS INTEGRATION.
3. LIGHTING CONTROL MANUFACTURER SHALL INCLUDE THE FOLLOWING SITE VISITS TO SUPPORT CONSTRUCTION: A PRE-CABLING MEETING WITH EC AND ENGINEER PRIOR TO INITIAL ROUGH-IN, 2 FACTORY STARTUPS TO COINCIDE WITH PROJECT PHASING (IF APPLICABLE).
4. LIGHTING CONTROL MANUFACTURER SHALL INCLUDE 1HR OWNER TRAINING DURING EACH STARTUP VISIT.
5. LIGHTING CONTROLS MANUFACTURER SHALL INCLUDE A FOLLOW UP VISIT 3 MONTHS AFTER FINAL OCCUPANCY TO ADDRESS FINAL PUNCHLIST AND COMMISSIONING REPORT NEEDS. NOTICE SHALL BE GIVEN TO ENGINEER FOR SCHEDULING OF FOLLOW UP VISIT.
6. ALL LIGHTING CONTROL SHALL BE TIED INTO THE EXISTING WATTSTOPPER VANTAGE CONTROL SYSTEM.
7. BAS INTEGRATION SHALL BE COORDINATED WITH CLIENT & ARCHITECT....

LIGHTING CONTROL - RELAY PANEL SCHEDULE

RELAY PANEL...	RELAY NUMBER	PANEL NAME	CIRCUIT NUMBER	SPACE TYPE/ CONTROL DESCRIPTION	RELAY TYPE	CONTROL TYPE/ LOCATION	CONTROLTYPE
LRP1	R1	LPL2	36	STAIR TOWER - HANDRAIL (TYPE AA)	24V/120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6/ LTB (NOTE 1, 2, 3) 0-10V
LRP1	R2	LPL2	36	STAIR TOWER - HANDRAIL (TYPE AA)	24V/120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6/ LTB (NOTE 1, 2, 3) 0-10V
LRP1	R3	LPL2	38	LANDSCAPE (TYPE SA)	120V, 1P	LRP1	0-10V, AUTO ON/ OFF WITH PHOTOCELL OVERRIDE
LRP1	R4	LPL2	34	TERRACE WALL (TYPE WB)	120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6 (NOTE 3) 0-10V
LRP1	R5	LPL2	34	PORCH WALL (TYPE WB)	120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6 (NOTE 3) 0-10V
LRP1	R6	LPL2	34	PORCH CEILING (TYPE DA)	120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6/ LTB (NOTE 1, 2, 3) 0-10V
LRP1	R7	LPL2	36	TERRACE HANDRAIL (TYPE AA)	24V/120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6/ LTB (NOTE 1, 2, 3) 0-10V
LRP1	R8	LPL2	36	PORCH HANDRAIL (TYPE AA)	24V/120V, 1P	LEVEL 3 BACK OF HOUSE, PORCH DOOR, TERRACE DOOR	DTS/CS6/ LTB (NOTE 1, 2, 3) 0-10V
LRP1	R9			SPARE	--	--	--
LRP1	R10			SPARE	--	--	--
LRP1	R11			SPARE	--	--	--
LRP1	R12			SPARE	--	--	--
LRP1	R13			SPARE	--	--	--
LRP1	R14			SPARE	--	--	--
LRP1	R15			SPARE	--	--	--
LRP1	R16			SPARE	--	--	--

GENERAL NOTES:
EXTEND NEW CONTROLS TO EXISTING WATTSTOPPER VANTAGE CONTROL SYSTEM.
COORDINATE FINAL PROGRAMMING WITH ENGINEER AND OWNER. REFER TO LIGHTING PLANS FOR LOCATION OF RELAY PANEL.
NOTES:
1. PROGRAM SHALL REDUCE TO 50% OUTPUT AFTER HOURS.
2. ALL EMERGENCY LIGHTING SHALL TRANSFER THROUGH EMERGENCY BYPASS. ALL LIT HANDRAIL IS CONSIDERED EMERGENCY EGRESS LIGHTING.
3. REFER TO DRAWING E-301 FOR PANEL LPL2 LOCATION.

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MIKE KEHOE,
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EGRESS STAIR

MISSOURI
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PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
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DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: SW
CHECKED BY: MJC
DESIGNED BY: SW

SHEET TITLE:
LIGHTING SCHEDULES, DETAILS, DIAGRAMS

SHEET NUMBER:
E-021

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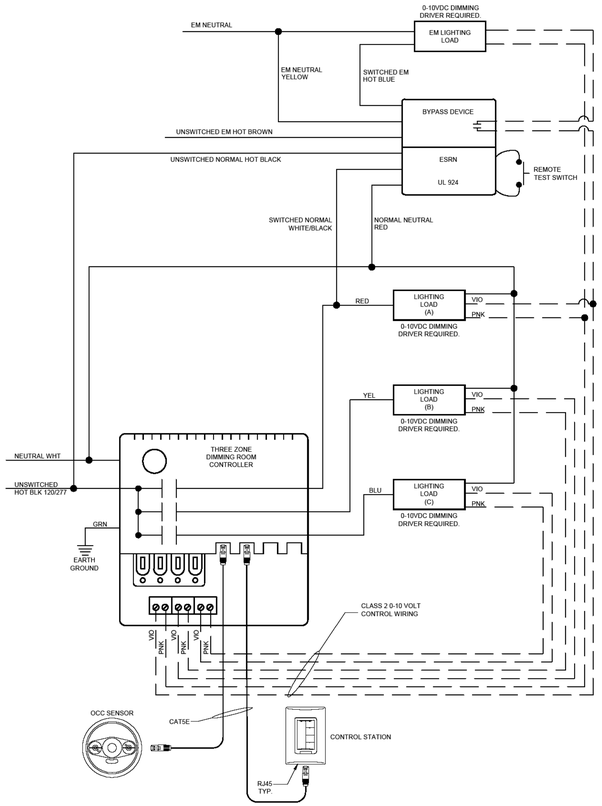
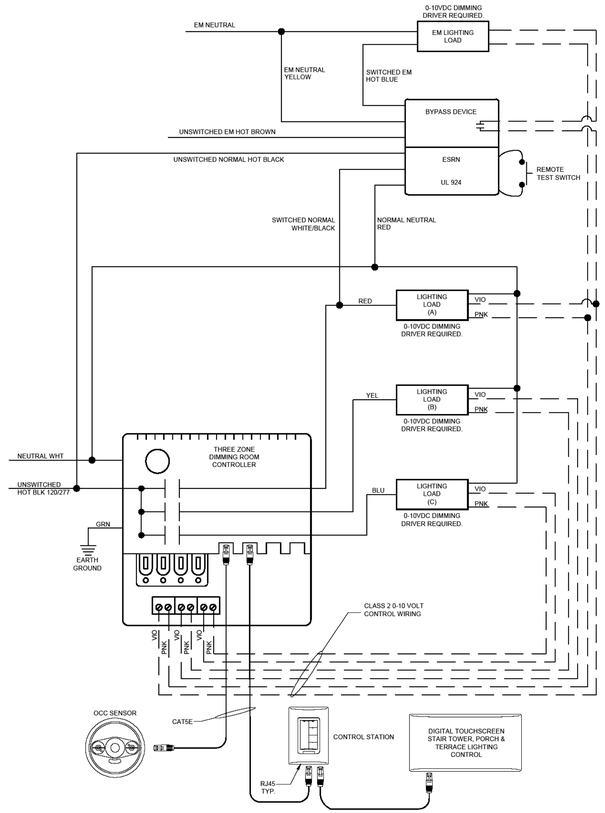


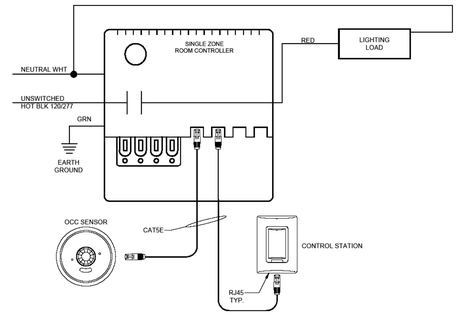
3 ZONE DIM WITH 1 EM

SCALE: NO SCALE



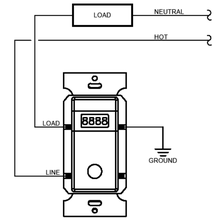
3 ZONE DIM WITH 1 EM

SCALE: NO SCALE



1 ZONE ON/OFF - W/ PIR

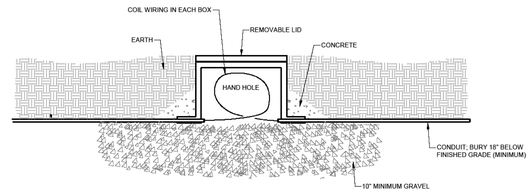
SCALE: NO SCALE



TYPICAL DIGITAL TIMER DIAGRAM

SCALE: NO SCALE

REFERENCE LIGHTING CONTROL MATRIX FOR FURTHER DETAIL WIRING DIAGRAM IS BASED ON WATTSTOPPER LIGHTING CONTROLS



HAND HOLE DETAIL

NO SCALE

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PROJECT # E2332-01
ASSET # 5012011017

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ISSUE DATE: 29 JUNE 2026

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CHECKED BY: MJC
DESIGNED BY: SW

SHEET TITLE:
LIGHTING SCHEDULES, DETAILS, DIAGRAMS

SHEET NUMBER:
E-022

N LEVEL N1 - DEMOLITION
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

N LEVEL N2 - DEMOLITION
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

GENERAL NOTES

1. ALL SYMBOLS SHOWN DASHED HEAVY ARE EXISTING ELECTRICAL DEVICES TO BE REMOVED OR HANDLED AS NOTED. ALL SYMBOLS SHOWN HALF-TONE LIGHT LINE ARE EXISTING ELECTRICAL DEVICES TO REMAIN. EXISTING ELECTRICAL DEVICES WHICH ARE TO REMAIN SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH OR FURRING ON EXISTING WALLS WHERE REQUIRED.

2. ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED FROM WALLS WHICH ARE TO REMAIN; ELECTRICAL CONTRACTOR SHALL DISCONNECT POWER, REMOVE CONDUCTORS, REMOVE DEVICE AND PROVIDE BLANK COVERPLATES AS REQUIRED, UNLESS OTHERWISE NOTED.

3. FOR A PORTION OF A CIRCUIT WHICH IS REMOVED OR ABANDONED, RE-ESTABLISH CIRCUIT CONTINUITY FOR THE PORTION OF THE CIRCUIT WHICH IS TO REMAIN.

4. PROVIDE AND INSTALL SUPPORTS FOR EXISTING CABLES AND CONDUITS ABOVE CEILINGS THAT ARE CURRENTLY UNSUPPORTED IN ALL AREAS WHERE CEILING IS BEING REMOVED.

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CHECKED BY: MJC
DESIGNED BY: MPH

SHEET TITLE:
FLOOR PLANS - ELECTRICAL DEMOLITION

SHEET NUMBER:
E-101

PAGE 38 OF 44
29 JUNE 2026 CONSTRUCTION DOCUMENTS - BID

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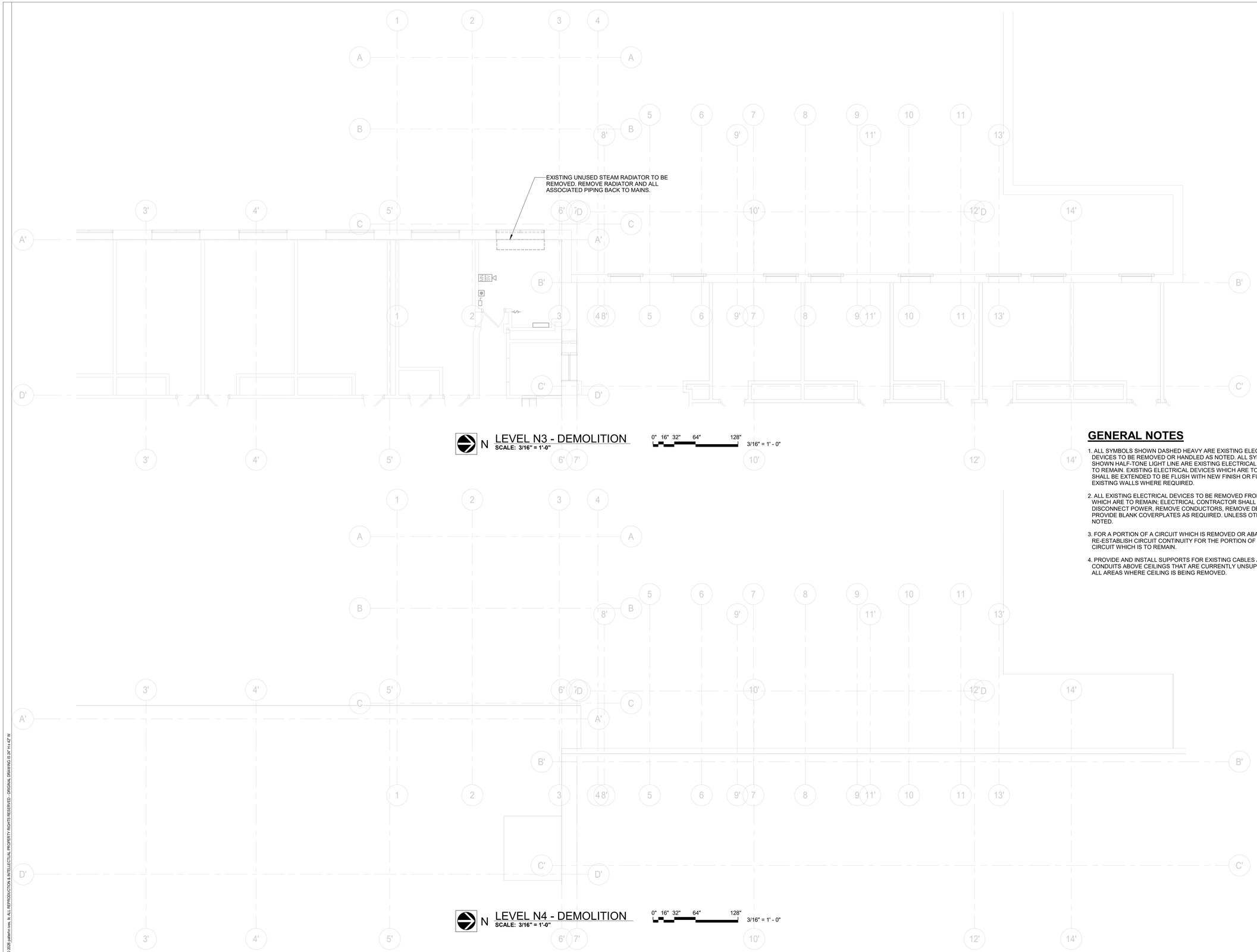

N LEVEL N3 - DEMOLITION
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

N LEVEL N4 - DEMOLITION
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

GENERAL NOTES

1. ALL SYMBOLS SHOWN DASHED HEAVY ARE EXISTING ELECTRICAL DEVICES TO BE REMOVED OR HANDLED AS NOTED. ALL SYMBOLS SHOWN HALF-TONE LIGHT LINE ARE EXISTING ELECTRICAL DEVICES TO REMAIN. EXISTING ELECTRICAL DEVICES WHICH ARE TO REMAIN SHALL BE EXTENDED TO BE FLUSH WITH NEW FINISH OR FURRING ON EXISTING WALLS WHERE REQUIRED.

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PROJECT # E2332-01
ASSET # 5012011017

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CAD DWG FILE:
DRAWN BY: MPH
CHECKED BY: MJC
DESIGNED BY: MPH

SHEET TITLE:
FLOOR PLANS - ELECTRICAL DEMOLITION

SHEET NUMBER:
E-102

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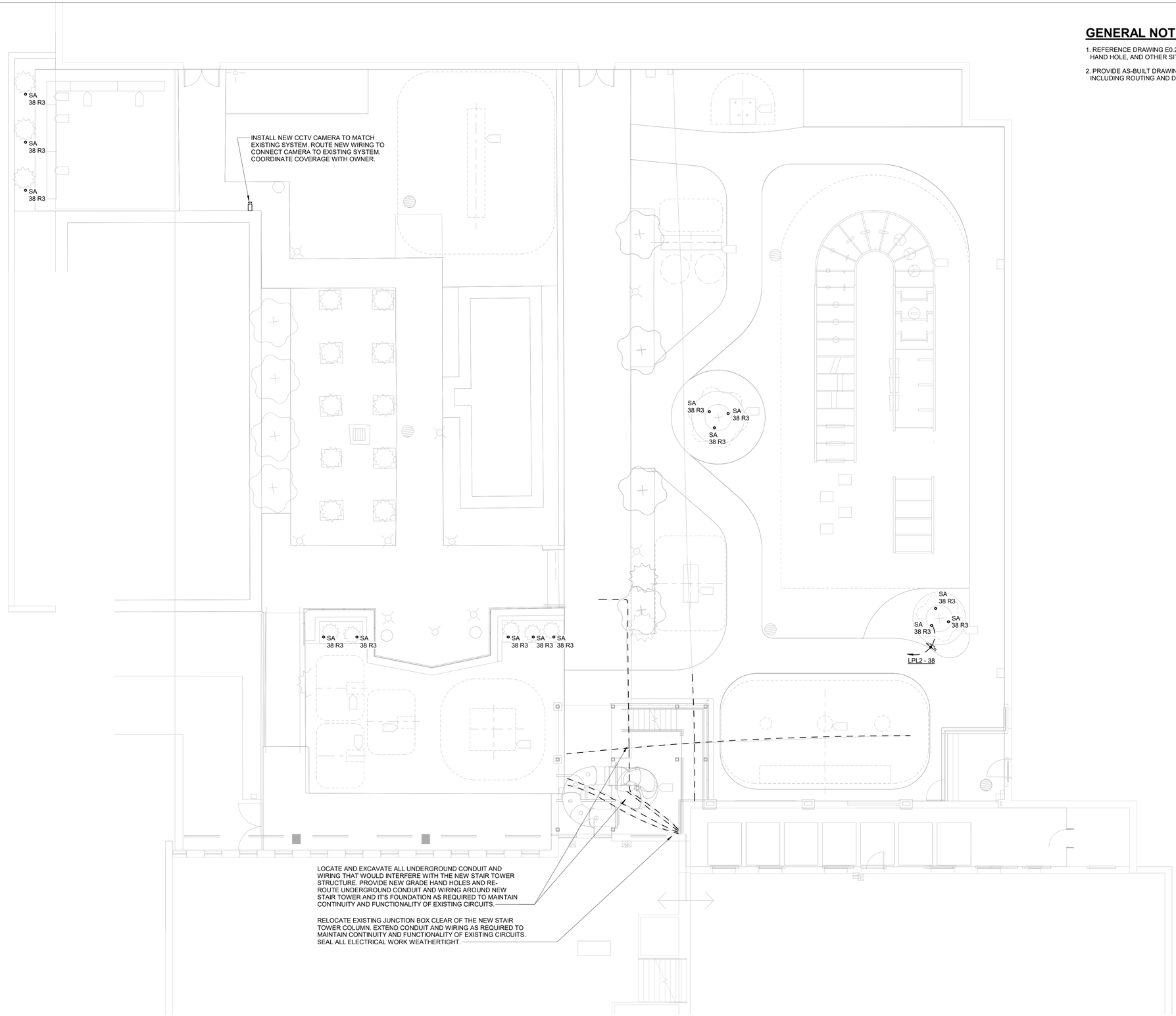

N SITE PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

0" 2' 4' 8' 16'
1/8" = 1' - 0"

GENERAL NOTES

1. REFERENCE DRAWING E0.2* SERIES SHEETS FOR SITE LIGHTING, HAND HOLE, AND OTHER SITE RELATED DETAILS.
2. PROVIDE AS-BUILT DRAWING OF FINAL INSTALLATION CONDITIONS, INCLUDING ROUTING AND DEPTHS OF UNDERGROUND CONDUITS.

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DESIGNED BY: MPH

SHEET TITLE:
SITE PLAN - ELECTRICAL

SHEET NUMBER:
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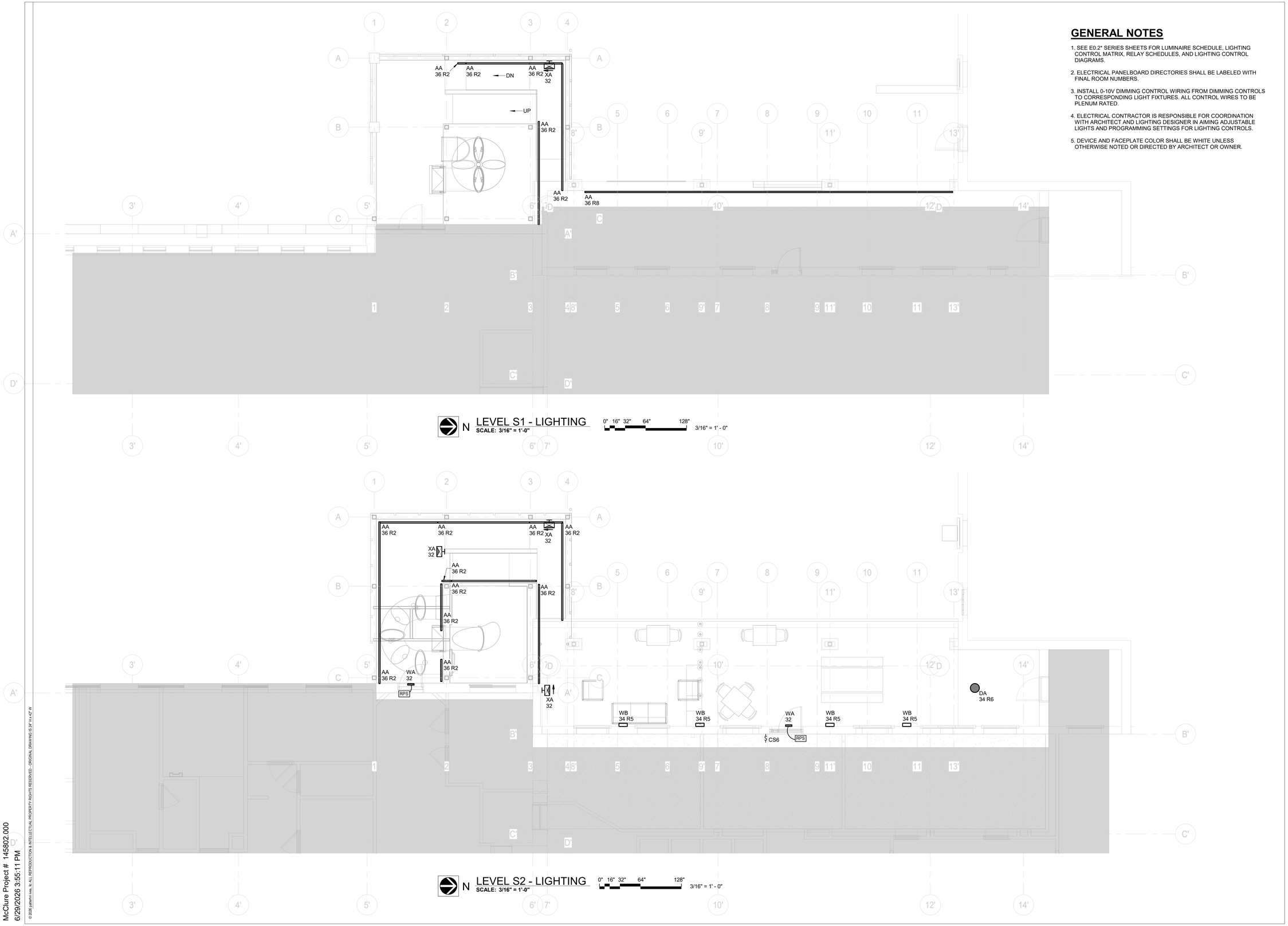

N LEVEL S1 - LIGHTING
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

N LEVEL S2 - LIGHTING
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

GENERAL NOTES

1. SEE E0.2* SERIES SHEETS FOR LUMINAIRE SCHEDULE, LIGHTING CONTROL MATRIX, RELAY SCHEDULES, AND LIGHTING CONTROL DIAGRAMS.
2. ELECTRICAL PANELBOARD DIRECTORIES SHALL BE LABELED WITH FINAL ROOM NUMBERS.
3. INSTALL 0-10V DIMMING CONTROL WIRING FROM DIMMING CONTROLS TO CORRESPONDING LIGHT FIXTURES. ALL CONTROL WIRES TO BE PLENUM RATED.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ARCHITECT AND LIGHTING DESIGNER IN AIMING ADJUSTABLE LIGHTS AND PROGRAMMING SETTINGS FOR LIGHTING CONTROLS.
5. DEVICE AND FACEPLATE COLOR SHALL BE WHITE UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT OR OWNER.

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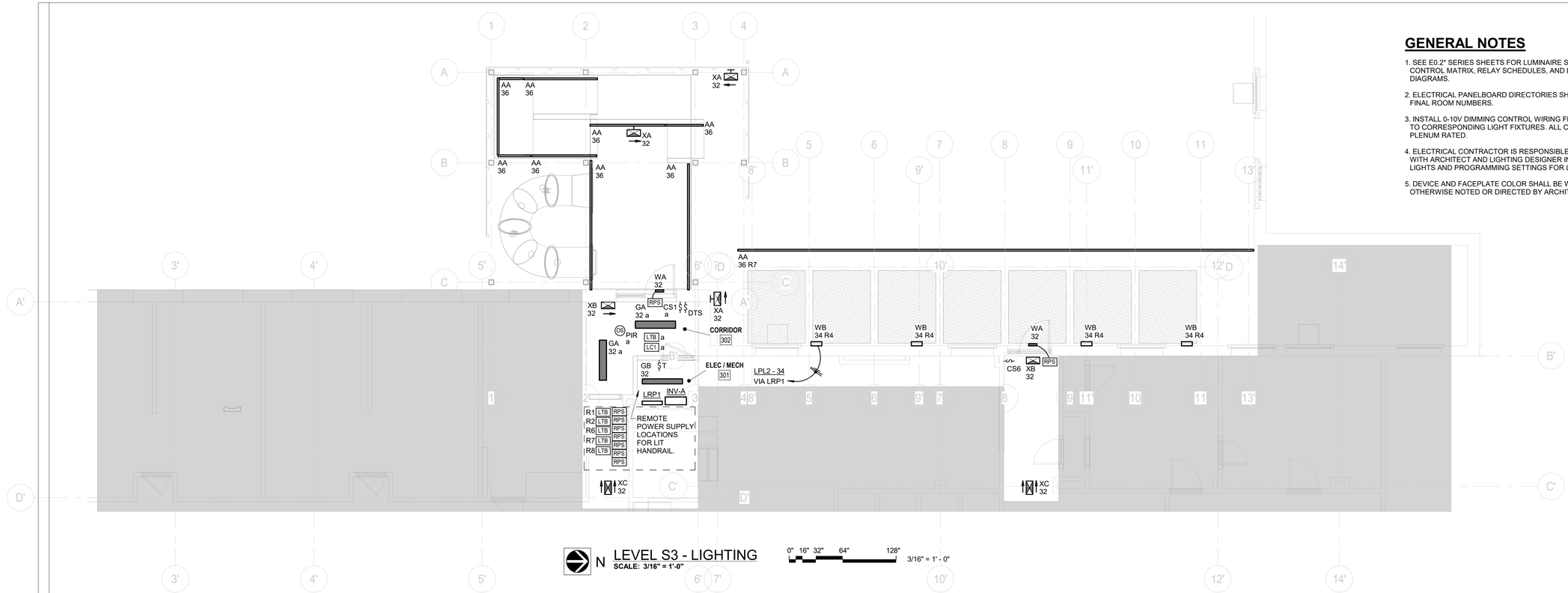
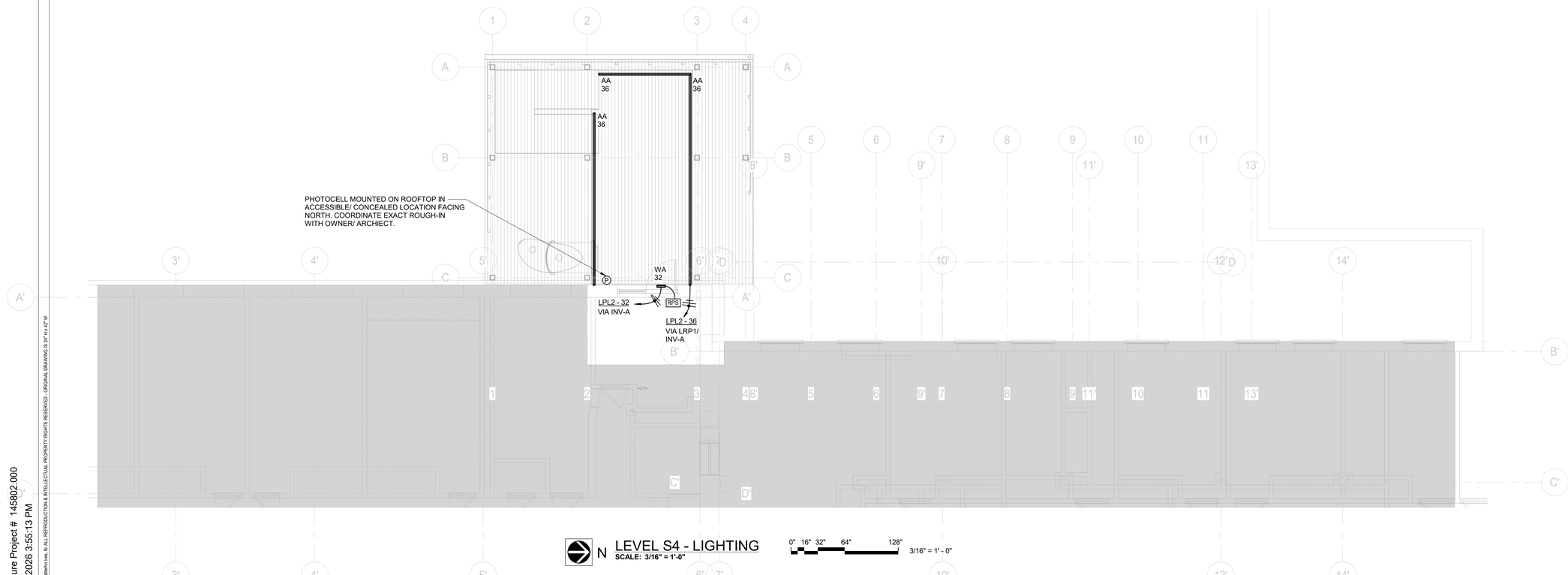
SHEET TITLE:
FLOOR PLANS - LIGHTING

SHEET NUMBER:
E-201



N LEVEL S3 - LIGHTING
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"



N LEVEL S4 - LIGHTING
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

GENERAL NOTES

1. SEE E0.2* SERIES SHEETS FOR LUMINAIRE SCHEDULE, LIGHTING CONTROL MATRIX, RELAY SCHEDULES, AND LIGHTING CONTROL DIAGRAMS.
2. ELECTRICAL PANELBOARD DIRECTORIES SHALL BE LABELED WITH FINAL ROOM NUMBERS.
3. INSTALL 0-10V DIMMING CONTROL WIRING FROM DIMMING CONTROLS TO CORRESPONDING LIGHT FIXTURES. ALL CONTROL WIRES TO BE PLENUM RATED.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ARCHITECT AND LIGHTING DESIGNER IN AIMING ADJUSTABLE LIGHTS AND PROGRAMMING SETTINGS FOR LIGHTING CONTROLS.
5. DEVICE AND FACEPLATE COLOR SHALL BE WHITE UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT OR OWNER.

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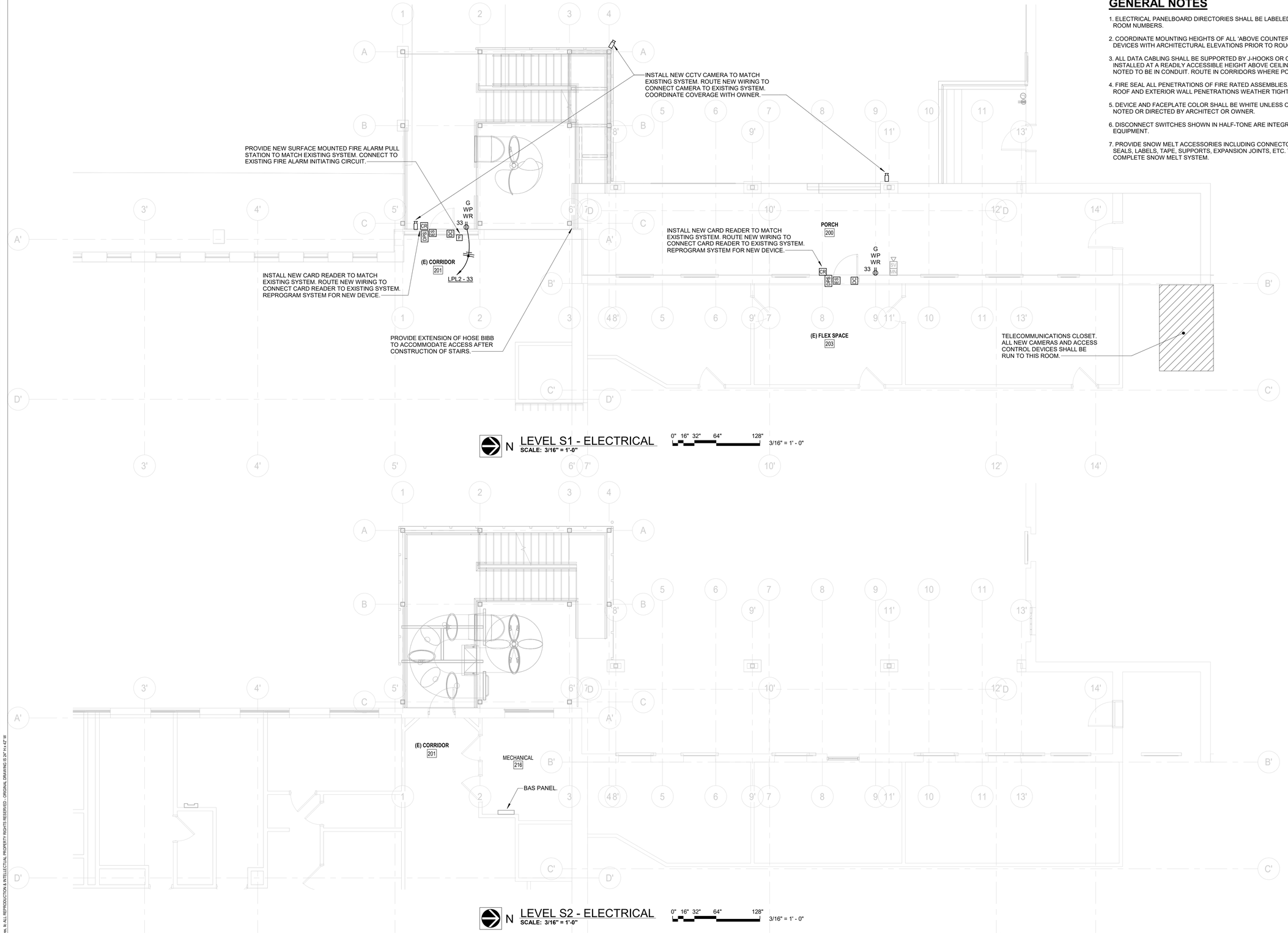
DESIGNED BY: SW

SHEET TITLE:
FLOOR PLANS - LIGHTING

SHEET NUMBER:
E-202



GENERAL NOTES

1. ELECTRICAL PANELBOARD DIRECTORIES SHALL BE LABELED WITH FINAL ROOM NUMBERS.
2. COORDINATE MOUNTING HEIGHTS OF ALL 'ABOVE COUNTER' ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.
3. ALL DATA CABLING SHALL BE SUPPORTED BY J-HOOKS OR CABLE TRAY INSTALLED AT A READILY ACCESSIBLE HEIGHT ABOVE CEILING, UNLESS NOTED TO BE IN CONDUIT. ROUTE IN CORRIDORS WHERE POSSIBLE.
4. FIRE SEAL ALL PENETRATIONS OF FIRE RATED ASSEMBLIES. SEAL ALL ROOF AND EXTERIOR WALL PENETRATIONS WEATHER TIGHT.
5. DEVICE AND FACEPLATE COLOR SHALL BE WHITE UNLESS OTHERWISE NOTED OR DIRECTED BY ARCHITECT OR OWNER.
6. DISCONNECT SWITCHES SHOWN IN HALF-TONE ARE INTEGRAL TO EQUIPMENT.
7. PROVIDE SNOW MELT ACCESSORIES INCLUDING CONNECTORS, END SEALS, LABELS, TAPE, SUPPORTS, EXPANSION JOINTS, ETC. TO PROVIDE A COMPLETE SNOW MELT SYSTEM.

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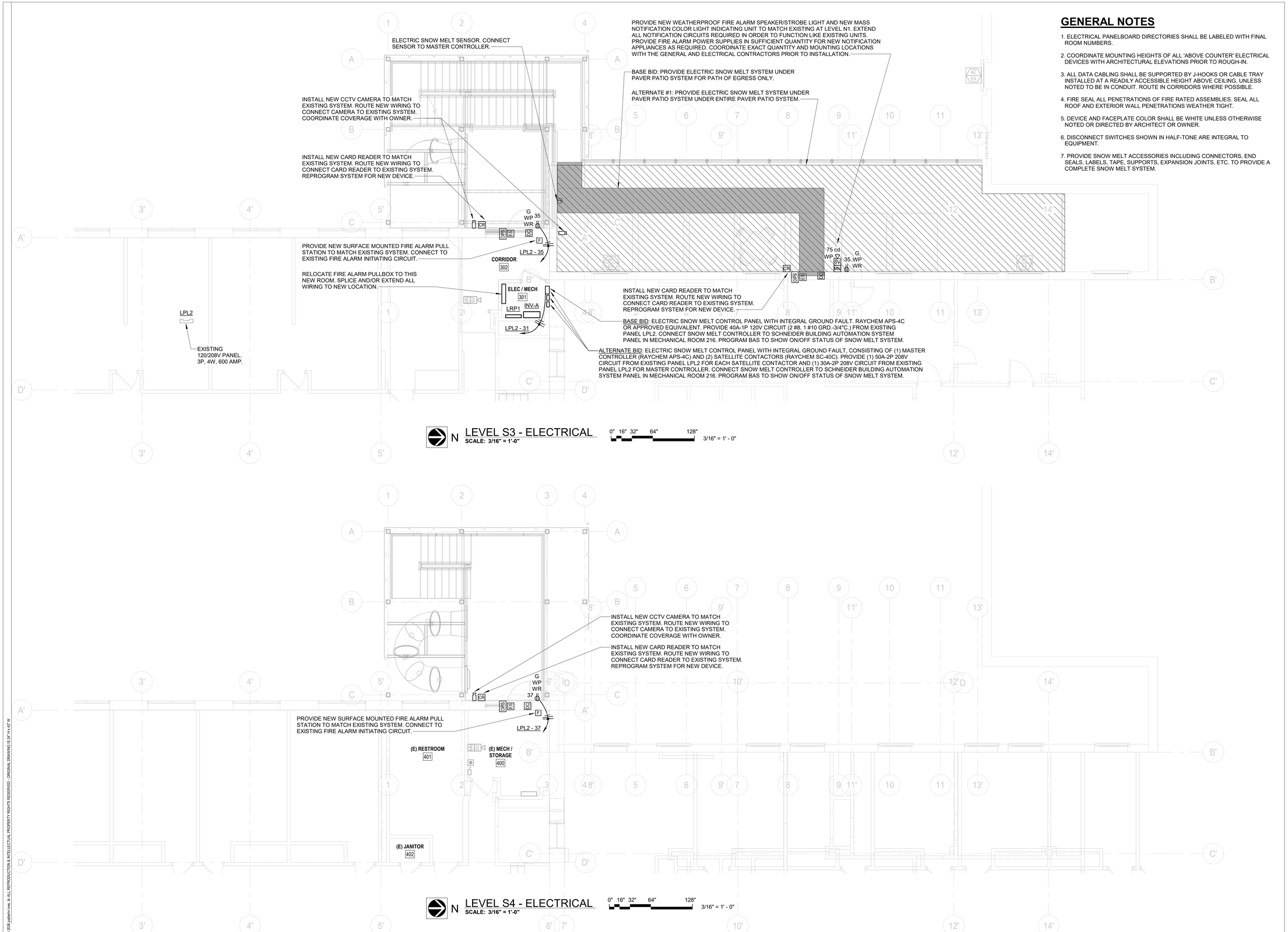
PROJECT # E2332-01
ASSET # 5012011017

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 29 JUNE 2026

CAD DWG FILE:
DRAWN BY: MPH
CHECKED BY: MJC
DESIGNED BY: MPH

SHEET TITLE:
FLOOR PLANS - ELECTRICAL

SHEET NUMBER:
E-301



N LEVEL S3 - ELECTRICAL
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

N LEVEL S4 - ELECTRICAL
SCALE: 3/16" = 1'-0"

0" 16" 32" 64" 128"
3/16" = 1' - 0"

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CAD DWG FILE:
DRAWN BY: MPH
CHECKED BY: MJC
DESIGNED BY: MPH

SHEET TITLE:
FLOOR PLANS - ELECTRICAL

SHEET NUMBER:
E-302

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