2751 NORTHEAST DOUGLAS STREET
LEE'S SUMMIT, MISSOURI 64064

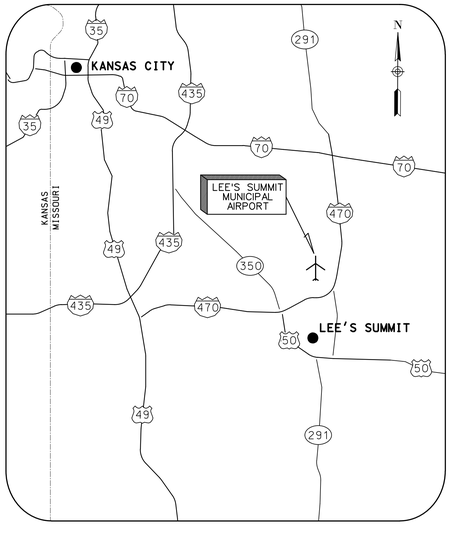
CONSTRUCTION PLANS
FOR
KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT

CITY PROJECT NO. 17932172

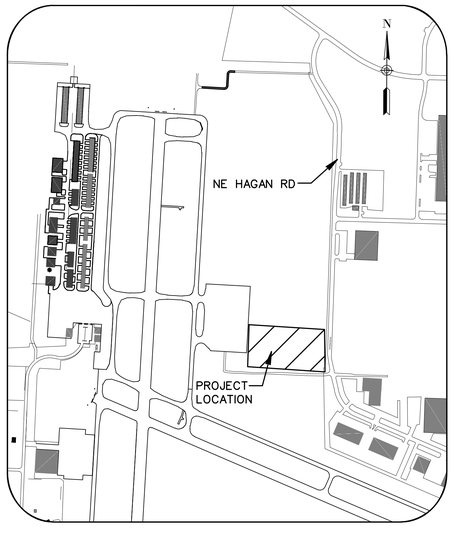
GENERAL AVIATION TERMINAL

FDP REVIEW PLAN SET

NOVEMBER 25, 2024



LOCATION MAP



SITE PLAN

CALL MISSOURI ONE-CALL SYSTEMS
BEFORE EXCAVATING
1-800-DIG-RITE

DESIGN AIRCRAFT - GEOMETRY
CANADAIR CL-600
AIRCRAFT APPROACH CATEGORY C
AIRPLANE DESIGN GROUP II

DESIGN AIRCRAFT - STRUCTURE
GRUMMAN GULFSTREAM IV
GROSS WEIGHT - 71,800 LBS
EQUIVALENT ANNUAL DEPARTURES - 651

MAXIMUM EQUIPMENT HEIGHT: 100'

UNICOM/CTAF FREQUENCY - 122.80

CMT

22001238

PROFESSIONAL ENGINEERING - 000631

CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
■SPRINGFIELD, IL ■AURORA, IL ■ST. LOUIS, MO
■EDWARDSVILLE, IL ■CHICAGO, IL ■ PEORIA, IL ■ ROCKFORD, IL
■INDIANAPOLIS, IN ■COLUMBUS, OH ■SPRINGFIELD, MO
■KANSAS CITY, MO ■LA BELLE, FL ■MOLINE, IA

SUBMITTED BY GERALD BOLLINGER

DATE NOVEMBER 25, 2024

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

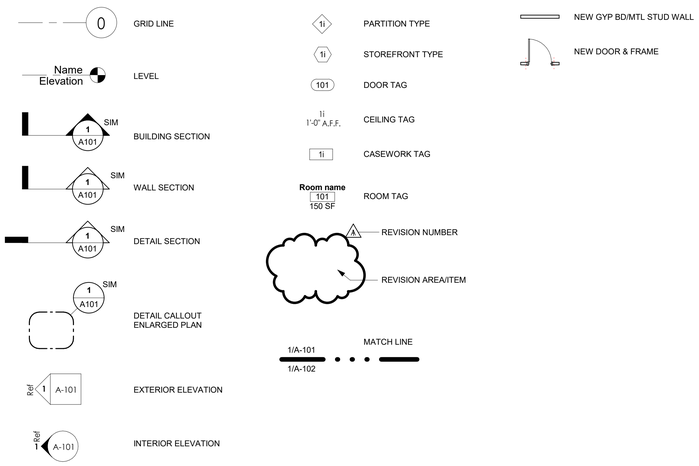
GENERAL NOTES

1. ALL WORK SHALL CONFORM WITH THE APPLICABLE BUILDING CODES, REGULATIONS, OCCUPANCY PERMITS AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. IN THE EVENT OF A CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS AND AN APPLICABLE CODE, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT FOR DIRECTION AND RESOLUTION. FAILURE TO NOTIFY EITHER OF THESE PARTIES PRIOR TO COMMENCEMENT OF THE WORK, SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CORRECTIVE MEASURES NEEDED TO BRING THE PROBLEM INTO PROPER CONFORMANCE, WITHOUT ADDITIONAL COSTS OR CHARGES TO THE OWNER. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER.
2. CONTRACTOR SHALL PROVIDE & MAINTAIN A REDLINED AS-BUILT CONSTRUCTION DOCUMENT SET AT THE SITE. THE OWNER OR THE ARCHITECT RESERVES THE RIGHT TO REVIEW THESE DOCUMENTS ON A WEEKLY BASIS.
3. PROVIDE THE ARCHITECT WITH A COMPLETE COPY OF AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.
4. GENERAL CONTRACTOR SHALL FURNISH A COMPLETE LIST OF CHEMICALS TO BE USED IN THE PROJECT ALONG WITH THE MATERIAL DATA SAFETY SHEET ON EACH PRODUCT TO THE ARCHITECT. A COPY SHALL BE KEPT ON SITE FOR REFERENCE.
5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
6. NO EQUIP., MATERIALS, OR VEHICLES ARE TO BE STORED OR PARKED ON AREAS NOT WITHIN THE AREAS INDICATED AS BEING DEMOLISHED ON THE DRAWINGS. IF AREAS ARE DISTURBED OR DAMAGED THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT AT CONTRACTORS EXPENSE.
7. PRIOR TO LEAVING THE SITE DAILY, THE CONTRACTOR IS TO LEAVE THE FACILITY SECURABLE.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
9. SCOPE OF WORK OF ALL TRADES IS TO INCLUDE ALL MATERIALS AND LABOR AS REQUIRED TO TOTALLY COMPLETE THE PROJECT. ALL WORK SHALL BE COMPLETE, CONSISTENT WITH THE DESIGN INTENT AS EXPRESSED IN THESE DOCUMENTS, WHETHER SPECIFICALLY ADDRESSED IN THESE DOCUMENTS OR NOT. ANY QUESTIONS CONCERNING THE COMPLETENESS OF THE WORK SHALL BE ADDRESSED TO THE ARCHITECT.
10. ALL WORK SHALL BE PERFORMED BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED. ALL REFERENCES TO THE "CONTRACTOR" INCLUDE THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS.
11. THE GENERAL CONTRACTOR SHALL SEE THAT ALL SUBCONTRACTORS RECEIVE COMPLETE SETS OF WORKING DRAWINGS FOR COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE.
12. CONTRACTOR SHALL NOT MAKE, CAUSED TO BE MADE, OR PERMIT A SUBCONTRACTOR TO MAKE ANY CHANGE TO WHAT IS SPECIFIED ON THE PLAN WITHOUT SPECIFIC AUTHORIZATION OF THE ARCHITECT.
13. THE ARCHITECT IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.
14. DO NOT SCALE DRAWINGS, FOLLOW WRITTEN DIMENSIONS OR KEYED NOTES ONLY. CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION IF REQUIRED. VERIFY DIMENSIONS IN THE FIELD. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
15. ALL WALL DIMENSIONS ARE FOR GENERAL REFERENCE ONLY AND MAY VARY.
16. "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 THE APPROVAL OF THE ARCHITECT.
17. "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 THE APPROVAL OF THE ARCHITECT.
18. "±" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUANTITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS. VERIFY THE EXACT DIMENSION IN THE FIELD PRIOR TO FABRICATION.
19. "TYPICAL" OR "TYP." AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
20. "MATCH EXIST." AS USED IN THE DOCUMENTS SHALL MEAN THAT THE CONDITION OR MATERIAL IS TO SEAMLESSLY MATCH THE SURROUNDING OR PRESCRIBE MATERIAL IN STYLE, PROFILE, COLOR, TEXTURE & WHERE POSSIBLE MANUFACTURE.
21. "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS SHALL BE ACCURATE TO FINISH WALL MATERIAL. CONTACT ARCHITECT PRIOR TO CONSTRUCTION IF FIELD CONDITIONS DO NOT ACCOMMODATE SAID DIMENSION.
22. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE AND FINISH FACES IN THE SAME PLANE; AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
23. ANY DISCREPANCIES AS TO LOCATION BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS OR BETWEEN THE DRAWINGS AND EXISTING FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATIONS. WORK INSTALLED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND SHALL NOT IMPACT THE SCHEDULE.
24. THE ARCHITECT SHALL HAVE THE RIGHT TO MAKE FIELD ADJUSTMENTS IN ORDER TO MAINTAIN DESIGN INTENT.
25. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT. LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES AND RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
26. INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK, OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.
27. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES, ETC. PRIOR TO START OF CONSTRUCTION.
28. OBTAIN THE OWNER'S WRITTEN AUTHORIZATION BEFORE ANY WORK IS PERFORMED OR MATERIAL ORDERED WHICH INVOLVES EXTRA COST OVER AND ABOVE CONTRACT PRICE.
29. INSTALL AND MAINTAIN ALL NECESSARY COVERINGS. PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS AND REPLACE ANY DAMAGES CAUSED BY IMPROPER PROTECTION AT NO ADDITIONAL CHARGE TO OWNER.
30. SUBMIT FOR APPROVAL TO THE ARCHITECT FINISHES LISTED AS MATCH EXISTING.
31. WHERE WALLS, CEILINGS, OR FLOORS ARE PATCHED, EXTENDED, OR REPAIRED, MATCH EXISTING MATERIALS, SIZE, PATTERN, TEXTURE, & COLOR UNLESS INDICATED OTHERWISE.
32. MATERIALS INDICATED TO BE REINSTALLED IN PROJECT ARE TO BE CLEANED, PAINTED, REPAIRED AS APPROPRIATE FOR REINSTALLATION IN "LIKE NEW" CONDITION.
33. CONTRACTOR TO PROTECT SITE FROM DAMAGE TO VEGETATION, DRIVES, PAVEMENT, AND WALKS. CONTRACTOR TO REPAIR OR REPLACE DISTURBED OR DAMAGED AREAS.

ABBREVIATIONS

ADJ	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
A.S.	ABOVE SLAB
BB	BASE BID
BD	BOARD
BL	BORROWED LITE
BLDG	BUILDING
BLKG	BLOCKING
BRG	BEARING
BOT	BOTTOM
B.O.	BOTTOM OF
B.O.S.	BOTTOM OF STEEL
CJ	CONTROL JOINT
CL	CLOSET
CLNG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DW	DISHWASHER
DWG(S)	DRAWING/DRAWINGS
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
ENCL	ENCLOSURE
E.O.S.	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
E.T.R.	EXISTING TO REMAIN
E.W.	EACH WAY
EXIST.	EXISTING
EXT	EXTERIOR
FAP	FIRE ALARM PANEL
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN.	FINISH
FIX, FIXT	FIXTURE
FL, FLR	FLOOR
FLASH	FLASHING
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
F.O.W.	FACE OF WALL
FR	FIRE RATED, FIRE RETARDANT
FT	FOOT, FEET
FTG	FOOTING
FURR	FURRING
F.V.	FIELD VERIFY
FVC	FIRE VALVE CABINET
GA	GAUGE
GALV	GALVANIZED
G.C.	GENERAL CONTRACTOR
GRND	GROUND
GL	GLASS, GRID LINE
G.S.F.	GROSS SQUARE FOOTAGE
GYP BD	GYPSUM WALLBOARD
GYP	GYPSUM
H.B.	HOSE BIB
HC	HANDICAPPED
HD	HEAD
HDWR	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT/ JNT	JOINT
KEC	KITCHEN EQUIPMENT CONTRACTOR
KIT	KITCHEN
L	LONG / LENGTH
LAM	LAMINATE, LAMINATED
LAV	LAVATORY
LT	LIGHT
M&MR	MOLD & MOISTURE RESISTANT
MAT'L	MATERIAL
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MTL	METAL
MEZZ	MEZZANINE
MFR, MANUF.	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MR	MOISTURE RESISTANT
MTD	MOUNTED
MWS	MOVABLE WALL SYSTEM
N	NORTH
N.I.C.	NOT IN CONTRACT
NO, NUM	NUMBER
NOM	NOMINAL
N.S.F.	NET SQUARE FEET
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OFF.	OFFICE
OFD	OVERFLOW DRAIN
OGPP	OPERABLE GLASS PANEL PARTITION
OPNG	OPENING
OPP	OPPOSITE
OSF	OFFICE SYSTEMS FURNITURE
PERP.	PERPENDICULAR
PL	PLATE
PLAM	PLASTICAL LAMINATE
PLYWD	PLYWOOD
PNL, PANEL	PANELBOARD
PR	PAIR
PROJ	PROJECT
PROP.	PROPERTY
P.T.	PRESSURE TREATED
PT	PAINT
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
RCP	REFLECTED CEILING PLAN
RAD, R	RADIUS
RD	ROOF DRAIN
REINF, R.I.	REINFORCED
REQ, REQ'D	REQUIRED
REV	REVISION
RM	ROOM
R.O.	ROUGH OPENING
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
S.F.	SQUARE FEET
SGD	SAFETY GLASSES DISPENSER
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
S.S.	STAINLESS STEEL
ST	STAIR
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT.	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TRD	TREAD
T.C.	THEATER CONSULTANT
TEMP.	TEMPORARY
THK	THICK
T.O.	TOP OF
T.O.S.	TOP OF STEEL
T.O.M.	TOP OF MASONRY
T.O.W.	TOP OF WALL
TR	TRASH RECEPTACLE
T.S.	TUBE STEEL
TYP	TYPICAL
UNFIN.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
VWC	VINYL WALLCOVERING
W	WEST, WIDE, WIDTH
W/, W/O	WITH, WITHOUT
WC	WATER CLOSET
WDW	WINDOW
WH	WATER HEATER
W.R.	WATER RESISTANT

SYMBOLS



SHEET LIST

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G-002	CONTRACTOR ACCESS AND STAGING
G-003	CONSTRUCTION ACTIVITY PLAN
G-004	CRITICAL POINTS
G-005	CAP NOTES
G-006	TRAFFIC CONTROL DETAILS
G-007	CODE INFORMATION AND PLANS
G-008	ADA GENERAL ACCESSIBILITY
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A-311	WALL SECTIONS
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A-313	WALL SECTIONS
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A-505	SECTION DETAILS
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A-511	MILLWORK DETAILS
A-512	MILLWORK DETAILS
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SHEET NUMBER	SHEET NAME
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ME000	MEP SYMBOLS LEGEND
ME001	MEP GENERAL NOTES AND ABBREVIATIONS
ME002	MEP SITE PLAN
ME003	LIGHTING SITE PHOTOMETRIC PLAN
FIRE PROTECTION	
FP100	FIRE PROTECTION PLAN
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P-400	PLUMBING DETAILS
P-410	PLUMBING DETAILS
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E-420	SPECIAL SYSTEMS DETAILS
E-430	TELECOM DETAILS
E-500	ELECTRICAL SCHEDULES
E-510	ELECTRICAL SCHEDULES
AUDIO VISUAL	
AV100	AUDIO / VISUAL PLANS
AV400	AUDIO / VISUAL DETAILS
AV500	AUDIO / VISUAL DETAILS & SCHEDULES

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KANSAS CITY, MO 64108

WELLNER ARCHITECTS + engineers
1627 MAIN STREET, SUITE 100
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OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000787 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

SHEET INDEX, ARCH LEGEND, AND ABBREVIATIONS

G-001

SHEET OF

11/27/2024 9:17:25 AM

CONSTRUCTION ACCESS AND STAGING NOTES

UNDER NO CIRCUMSTANCES WILL ANY CONTRACTOR VEHICLE, EQUIPMENT OR PERSONNEL BE ALLOWED ONTO ANY ACTIVE AIRFIELD PAVEMENTS WITHOUT THE APPROVAL AND DIRECT SUPERVISION OF AIRPORT STAFF.

UNLESS NOTED OTHERWISE, ALL CONTRACTOR STAGING AREAS AND HAUL ROUTES SHALL BE RESTORED TO THEIR EXISTING CONDITION UPON COMPLETION OF THE PROJECT. ALL WORK REQUIRED FOR RESTORATION OF STAGING AREAS AND HAUL ROUTES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE CONTRACTOR SHALL CONTINUOUSLY MONITOR AND CLEAN NE HAGAN ROAD DURING ALL HAULING OPERATIONS. THE CONTRACTOR SHALL HAVE AT A MINIMUM A STREET SWEEPER, VACUUM TRUCK AND ASSOCIATED OPERATORS AVAILABLE ON SITE FOR THIS PURPOSE AT ALL TIMES THAT CONSTRUCTION TRAFFIC IS OPERATING ACROSS NE HAGAN ROAD. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

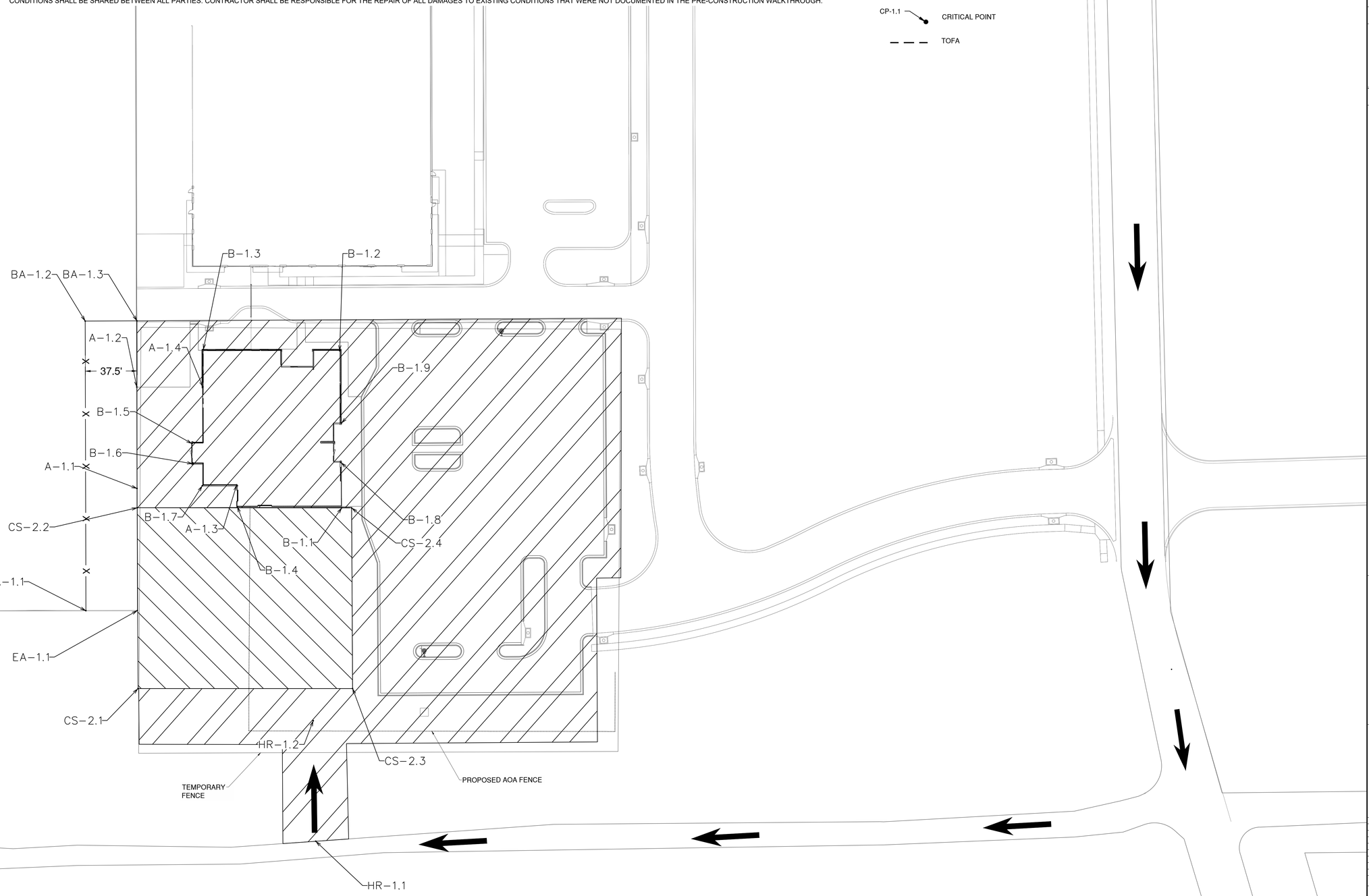
THE CITY OF LEE'S SUMMIT LOCAL ORDINANCES RESTRICT NOISE DISTURBANCES BETWEEN THE HOURS OF 10:00 P.M. AND 7:00 A.M. EVERY NIGHT. THE CONTRACTOR MAY REQUEST A WAIVER OF THIS ORDINANCE TO BE GRANTED AT THE DISCRETION OF THE LEE'S SUMMIT CHIEF OF POLICE. THE AVAILABILITY OF THE HAUL ROUTE DURING THE NIGHTLY HOURS PROTECTED BY THE CITY NOISE ORDINANCE IS NOT GUARANTEED.

CONSTRUCTION TRAFFIC SHOULD BE ROUTED TO AVOID CAUSING DAMAGE TO EXISTING OR PROPOSED AIRFIELD LIGHTING OR SIGNAGE FIXTURES. ANY AIRFIELD LIGHTS OR SIGNS DAMAGED BY CONSTRUCTION OPERATIONS OR TRAFFIC SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK THE SITE WITH OWNER AND ENGINEER TO DOCUMENT EXISTING SITE CONDITIONS THROUGH PHOTO AND VIDEO RECORDINGS. PHOTO/VIDEO EVIDENCE OF PRE-SITE CONDITIONS SHALL BE SHARED BETWEEN ALL PARTIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL DAMAGES TO EXISTING CONDITIONS THAT WERE NOT DOCUMENTED IN THE PRE-CONSTRUCTION WALKTHROUGH.

LEGEND

- WORK AREA
- CONTRACTOR STAGING AND STORAGE AREA
- LOW PROFILE BARRICADES
- HAUL ROUTE
- CP-1.1 — CRITICAL POINT
- TOFA



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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: CONTRACTOR STAGING AND STORAGE
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

CONTRACTOR ACCESS AND STAGING

G002

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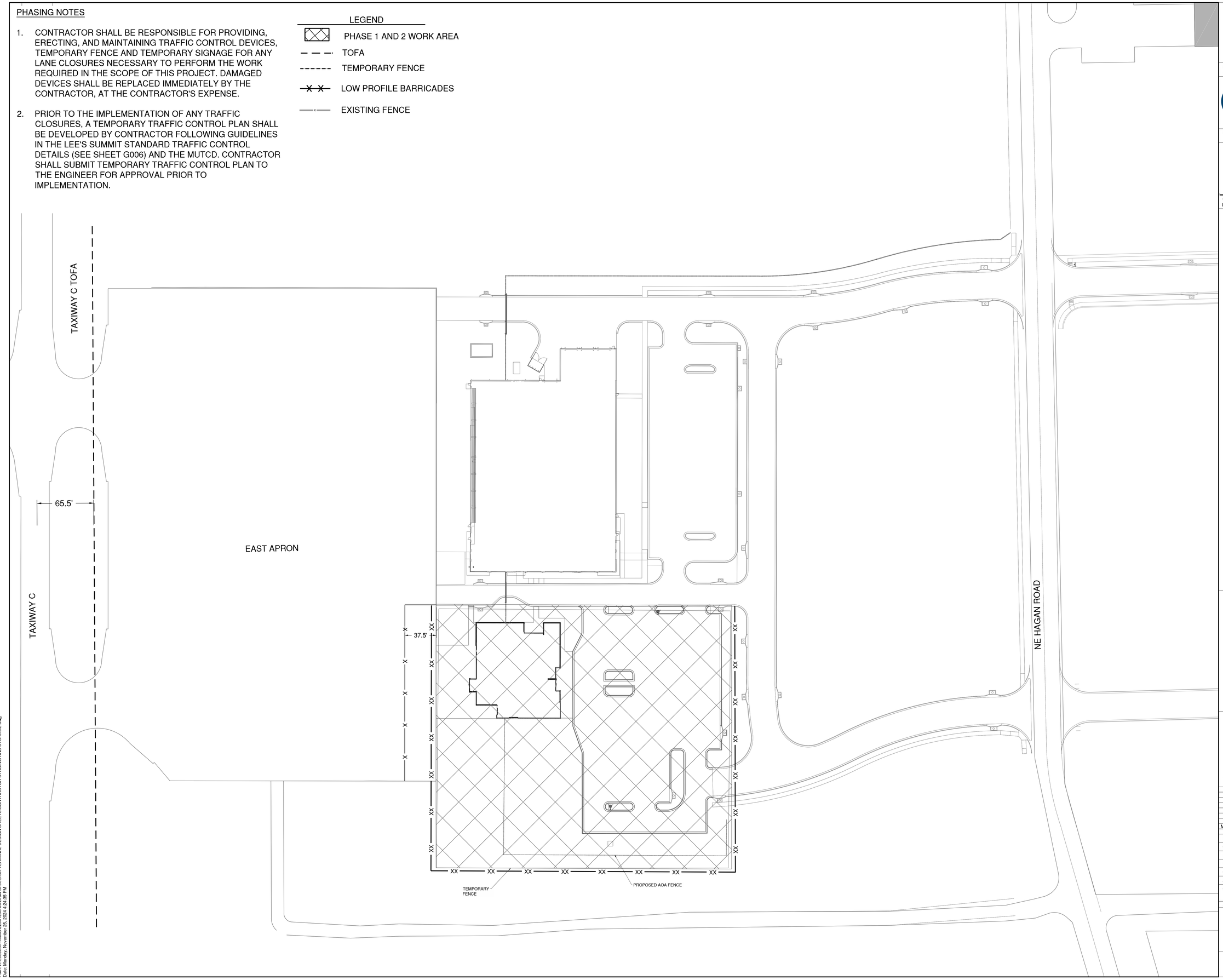
PHASING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES, TEMPORARY FENCE AND TEMPORARY SIGNAGE FOR ANY LANE CLOSURES NECESSARY TO PERFORM THE WORK REQUIRED IN THE SCOPE OF THIS PROJECT. DAMAGED DEVICES SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.

2. PRIOR TO THE IMPLEMENTATION OF ANY TRAFFIC CLOSURES, A TEMPORARY TRAFFIC CONTROL PLAN SHALL BE DEVELOPED BY CONTRACTOR FOLLOWING GUIDELINES IN THE LEE'S SUMMIT STANDARD TRAFFIC CONTROL DETAILS (SEE SHEET G006) AND THE MUTCD. CONTRACTOR SHALL SUBMIT TEMPORARY TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.

LEGEND

- PHASE 1 AND 2 WORK AREA
- TOFA
- TEMPORARY FENCE
- LOW PROFILE BARRICADES
- EXISTING FENCE



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CONSTRUCTION ACTIVITY PLAN

G003

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Date: Monday, November 25, 2024 1:42:35 PM

CRITICAL ELEVATION POINTS
EASTSIDE DEVELOPMENT
LEE'S SUMMIT MUNICIPAL AIRPORT

NEW PCC APRON CRITICAL POINTS

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
A-1.1	NEW PCC APRON	993.17	1093.17	2825746.6471'	1017840.6767'
A-1.2	NEW PCC APRON	993.22	1093.22	2825750.8508'	1017911.3128'
A-1.3	NEW PCC APRON	993.00	1093.00	2825819.2854'	1017836.4593'
A-1.4	NEW PCC APRON	993.00	1093.00	2825797.9266'	1017908.5892'

NEW GA TERMINAL BUILDING

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
B-1.1	GA TERMINAL	993.00	1093.00	2825893.7851'	1017816.5998'
B-1.2	GA TERMINAL	993.00	1093.00	2825900.3990'	1017930.4472'
B-1.3	GA TERMINAL	993.00	1093.00	2825799.5342'	1017936.3068'
B-1.4	GA TERMINAL	993.00	1093.00	2825817.8895'	1017821.0089'
B-1.5	GA TERMINAL	993.00	1093.00	2825788.1565'	1017869.8317'
B-1.6	GA TERMINAL	993.00	1093.00	2825787.2398'	1017853.8629'
B-1.7	GA TERMINAL	993.00	1093.00	2825794.3189'	1017837.9097'
B-1.8	GA TERMINAL	993.00	1093.00	2825895.1626'	1017848.5340'
B-1.9	GA TERMINAL	993.00	1093.00	2825897.1192'	1017877.0036'

EXISTING APRON CORNERS

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
EA-1.1	EXISTING APRON CORNER	991.22	1091.22	2825741.5663'	1017750.0302'
EA-1.2	EXISTING APRON CORNER	992.60	1092.60	2825775.4280'	1018336.3199'

LOW PROFILE BARRICADES

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
BA-1.1	LOW-PROFILE BARRICADES	995.00	1095.00	2825703.6080'	1017752.2276'
BA-1.2	LOW-PROFILE BARRICADES	995.00	1095.00	2825717.1968'	1017990.4666'
BA-1.3	LOW-PROFILE BARRICADES	995.00	1095.00	2825754.6378'	1017988.3649'

CONTRACTOR STAGING AREA

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
CS-2.1	CONTRACTOR STAGING AREA	991.79	1091.79	2825738.6619'	1017693.5905'
CS-2.2	CONTRACTOR STAGING AREA	992.19	1092.19	2825745.7663'	1017824.4198'
CS-2.3	CONTRACTOR STAGING AREA	992.61	1092.61	2825893.8241'	1017684.2987'
CS-2.4	CONTRACTOR STAGING AREA	993.21	1093.21	2825900.9834'	1017815.0493'

CONSTRUCTION HAUL ROUTE

POINT	DESCRIPTION	GROUND ELEVATION	MAX* ELEVATION	NORTHING	EASTING
HR-1.1	HAUL ROUTE	984.50	1084.50	2825860.7896'	1017575.4966'
HR-1.2	HAUL ROUTE	979.60	1079.60	2825862.5383'	1017657.0902'

CONSTRUCTION ACTIVITY MAXIMUM HEIGHT: 100' FROM GROUND

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SHEET TITLE

CRITICAL POINTS

G004

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Date: Monday, November 25, 2024 1:42:45 PM

GENERAL

1. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2G, AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
2. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2G. NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE CITY HAS APPROVED THE SPCD.
3. THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.
4. A MINIMUM OF 10 DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
5. THE CONTRACTOR SHALL EXERCISE BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH STORM WATER POLLUTION PREVENTION AND PROJECT SPECIFICATION C-102 EROSION AND SEDIMENT CONTROL THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL WATER POLLUTION.
6. ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNLESS A SPECIFIC PAY ITEM IS PROVIDED.
7. THE EXISTING FEATURES SHOWN ON THESE PLANS ARE THOSE NOTED IN THE FIELD AND THOSE TAKEN FROM RECORD DRAWINGS. THIS DOES NOT GUARANTEE THAT ALL FEATURES ARE SHOWN ON THE PLANS. THERE WILL BE NO ADDITIONAL PAYMENT TO THE CONTRACTOR DUE TO VARIATIONS IN SIZE, QUANTITY OR LOCATION OF EXISTING FEATURES.
8. CRAWLER TYPE EQUIPMENT SHALL NOT BE ALLOWED ON ANY PAVED SURFACE ON THE AIRPORT. ONLY RUBBER-TIRED VEHICLES, WHICH WILL NOT CAUSE DAMAGE TO THE PAVEMENTS, SHALL BE ALLOWED WITHOUT PROVIDING SOME TYPE OF PROTECTION.
9. THE CONTRACTOR SHALL HAVE PROPER IDENTIFICATION ON ALL EQUIPMENT AND VEHICLES ON THE AIRPORT.
10. NO EDGE DROP GREATER THAN 3 INCHES WILL BE ALLOWED AT ANY ACTIVE RUNWAY PAVEMENT EDGE OR SAFETY AREA. IF NECESSARY, THE CONTRACTOR SHALL PLACE TEMPORARY MATERIAL TO ELIMINATE VERTICAL DROPS GREATER THAN 3 INCHES OR SLOPES GREATER THAN 5% IN THESE AREAS. THIS WORK SHALL BE SUBSIDIARY TO OTHER ITEMS IN THE PROJECT.
11. THE CONTRACTOR SHALL CONSTRUCT HAUL ROADS FOR ALL PHASES OF CONSTRUCTION. THE HAUL ROADS SHALL BE CONSTRUCTED OF MATERIALS THAT ALLOW ACCESS TO THE SITE DURING POOR CONDITIONS. THE HAUL ROADS SHALL BE REMOVED AFTER CONSTRUCTION OF EACH PHASE IS COMPLETE. THE AREAS WHERE HAUL ROADS WERE CONSTRUCTED SHALL BE RESTORED BACK TO THEIR ORIGINAL CONDITION. CONSTRUCTION OF THE HAUL ROADS, REMOVAL OF THE HAUL ROADS AND RESTORING THE AREAS BACK TO THEIR ORIGINAL CONDITION SHALL BE INCIDENTAL TO THE PROJECT.

1. COORDINATION

1. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE WITH THE AIRPORT AND THE ENGINEER. THE COST OF PREPARING FOR AND ATTENDING THE PRECONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
2. ON OR BEFORE THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.
3. DURING CONSTRUCTION THE CONTRACTOR SHALL ATTEND A WEEKLY COORDINATION MEETING WITH THE RESIDENT ENGINEER/OBSERVER. ALL COSTS ASSOCIATED WITH ATTENDING THE WEEKLY MEETING SHALL BE INCIDENTAL TO THE CONTRACT.
4. CHANGES MADE TO THE SCOPE OR DURATION OF THE PROJECT MAY NECESSITATE REVISIONS TO THE CSPP AND SHALL REQUIRE REVIEW AND APPROVAL BY THE ENGINEER AND AIRPORT OPERATOR.

2. CONSTRUCTION ACTIVITY

1. THE SOUTHEAST CORNER OF THE EAST APRON SHALL BE CLOSED FOR THE DURATION OF THE PROJECT
2. NO CONSTRUCTION TRAFFIC SHALL CROSS INTO ANY OPEN AIRFIELD PAVEMENT OR AIRFIELD OBJECT FREE AREAS FOR ANY REASON WHATSOEVER. SHALL ACCESS BE NECESSARY FOR ANY REASON, CONTRACTOR SHALL COORDINATE WITH THE AIRPORT WHO SHALL PROVIDE ESCORT.
3. UNAUTHORIZED ENTRY BY ANY PERSONNEL, VEHICLE OR EQUIPMENT WOULD BE A MAJOR INFRACTION OF AIRPORT SAFETY. THE PERSONNEL RESPONSIBLE FOR THE INCURSION SHALL BE SUSPENDED FROM ACCESS ONTO AIRPORT PROPERTY AND WILL NOT BE ALLOWED RE-ENTRY WITHOUT THE CONSENT OF THE AIRPORT. IF MULITPLE INCURSIONS OCCUR, THE AIRPORT RESERVES THE RIGHT TO SUSPEND ALL ACCESS ONTO AIRPORT PROPERTY UNTIL ALL KEY CONTRACTOR STAFF ARE RETRAINED IN AIRPORT SAFETY. PROJECT CALENDAR DAYS WILL CONTINUE TO BE COUNTED DURING THE WORK SUSPENSION.

3. PROTECTION OF NAVIGATION AIDS (NAVAIDS)

1. THE CONTRACTOR SHALL REMAIN CLEAR OF THE PAPI SYSTEMS, WIND CONE, BEACON, AWOS AND OTHER NAVAIDS FACILITIES AT ALL TIMES, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. THE CONTRACTOR SHALL LOCATE FAA UTILITIES WITH FAA TECHNICAL OPERATIONS PRIOR TO START OF ALL CONSTRUCTION.

4. CONTRACTOR ACCESS

1. CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN ON THE SITE PLAN AND CONSTRUCTION ACTIVITY PLAN SHEETS.
2. THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE PERSON TO MONITOR THE AIRPORT UNICOM FREQUENCY OF 122.80. THE PERSON DESIGNATED SHALL HAVE THE ABILITY TO EASILY COMMUNICATE WITH OTHER CONTRACTOR PERSONNEL WORKING ON THE JOBSITE. THE CONTRACTOR SHALL PROVIDE THEIR OWN WORKING RADIO(S).
3. THE STORAGE AND STAGING AREAS SHALL BE AS SHOWN ON THE SITE PLAN.
4. THE CONTRACTOR SHALL KEEP A RECORD OF THE NAMES OF ALL EMPLOYEES ENTERING THE JOB SITE ON A DAILY BASIS AND BE RESPONSIBLE FOR MAINTAINING THE SECURITY OF THE ACCESS GATES BY KEEPING THE GATES LOCKED AND GUARDED AT ALL TIMES. A RECORD OF EACH SUBCONTRACTOR ENTERING THE JOB SITE SHALL ALSO BE KEPT BY THE CONTRACTOR.
5. WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE STORED AT THE STAGING AREA OR WITHIN THE WORK AREA LIMITS
6. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE.
7. ALL CONSTRUCTION TRAFFIC OPERATING WITHIN AN ACTIVE RUNWAY OR TAXIWAY SAFETY AREA OR ON AN ACTIVE APRON SHALL BE UNDER CONTROL BY A FLAGMAN OR ESCORT WHO IS MONITORING THE AIRPORT UNICOM FREQUENCY. THE CONTRACTOR SHALL PROVIDE HIS/HER OWN FLAGMEN.
8. THE CONTRACTOR SHALL THOROUGHLY AND CONTINUOUSLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF THE ENGINEER. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
9. ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
10. ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR. VEHICLE OPERATORS HAVING ACCESS TO THE MOVEMENT AREA SHALL BE FAMILIAR WITH AIRPORT PROCEDURES FOR THE OPERATION OF GROUND VEHICLES AND THE CONSEQUENCES OF NONCOMPLIANCE OR BE ESCORTED BY SOMEONE WHO IS.
11. THE CONTRACTOR SHALL NOTIFY THE LOCAL FIRE DEPARTMENT IF CONSTRUCTION ACTIVITY WILL REQUIRE THE BLOCKAGE OF EMERGENCY ACCESS TO THE AIRPORT.

5. TEMPORARY FENCING AND PROJECT ACCESS NOTES

1. SEE FENCING PLAN FOR LAYOUT OF PROPOSED FENCE AND FOR LAYOUT OF FENCE REMOVALS
2. ALL PROPOSED FENCING SHALL BE INSTALLED PRIOR TO REMOVAL OF EXISTING. ANY GAPS IN FENCING SHALL ONLY BE ALLOWED TEMPORARILY AND UNDER DIRECT SUPERVISION OF CONTRACTOR PERSONNEL.

6. WILDLIFE MANAGEMENT

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR AIRPORT MANAGER IF ANY WILDLIFE IS SEEN ENTERING THE AIRPORT.
2. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.

7. FOREIGN OBJECT DEBRIS (FOD) MANAGEMENT

1. THE CONTRACTOR SHALL PICK UP ANY FOREIGN OBJECT DEBRIS (FOD) SEEN ON THE AIRFIELD PAVEMENTS.
2. THE CONTRACTOR SHALL SECURE ALL LOOSE ITEMS FROM VEHICLES PRIOR TO DRIVING ON AIRFIELD PAVEMENTS.

8. HAZARDOUS MATERIALS (HAZMAT) MANAGEMENT

1. THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT PLAN AND KEEP COPIES ON THE JOBSITE OF MATERIAL SAFETY DATA SHEETS (SDS) FOR ALL MATERIALS HANDLED ON THE JOBSITE.

9. NOTIFICATION OF CONSTRUCTION ACTIVITIES

1. THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
2. THE CONTRACTOR SHALL GIVE A MINIMUM OF 72 HOURS NOTICE TO THE AIRPORT PRIOR TO CLOSING ANY PAVEMENTS SO THAT PROPER NOTAMS MAY BE ISSUED BY THE AIRPORT AND TO ALLOW FOR COORDINATION WITH THE AIRPORT TENANTS BY THE AIRPORT.
3. FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 100', THE CONTRACTOR SHALL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 100' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.
4. IN THE EVENT OF AN EMERGENCY, THE CONTRACTOR SHALL CALL 911.
5. CONTACTS FOR THIS PROJECT ARE AS LISTED BELOW.

CITY (OWNER)	
MIKE ANDERSON - DEPUTY DIRECTOR OF LSPW	(816) 969-1800
AIRPORT	
JOEL ARRINGTON - AIRPORT MANAGER	(816) 969-1181
AIRPORT FRONT DESK	(816) 969-1186
ENGINEER	
BRIAN BLOODWORTH - PROJECT MANAGER	(314) 571-9094
WATER UTILITIES	(816) 989-1900
FIRE DEPARTMENT	(816) 969-1300
POLICE DEPARTMENT	(816) 969-1700
FAA TECHNICAL OPERATIONS	
BRIAN CHITTUM	(816) 329-2828
EMERGENCY	911

10. INSPECTION REQUIREMENTS

1. THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX 3 OF FAA AC 150/5370-2G MAY BE USED TO AID IN THE INSPECTIONS.
2. THE CONTRACTOR SHALL ATTEND A FINAL INSPECTION OF EACH PHASE WORK AREA PRIOR TO OPENING THE AREA TO AIRPORT OPERATIONS.

11. UNDERGROUND UTILITIES

1. THE CONTRACTOR SHALL MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION.
2. BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL 1-800-DIG-RITE AND FAA TECHNICAL OPERATIONS TO ARRANGE FOR UTILITY LOCATES.

12. PENALTIES

1. NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP AND THE CONTRACTOR'S APPROVED SPCD MAY RESULT IN FINES AS ALLOWED BY LAW OR APPLICABLE REGULATION.

13. RUNWAY AND TAXIWAY VISUAL AIDS

1. AIRPORT PAVEMENT SHALL BE CLOSED DURING THIS PROJECT. THE CONTRACTOR SHALL USE MARKING, LIGHTING AND SIGNS THAT FOLLOW THE REQUIREMENTS OF FAA AC 150/5370-2G.
2. BARRICADES SHALL BE USED AND MAINTAINED AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.

14. TRAFFIC CONTROL AND SIGNAGE NOTES

1. PRIOR TO BEGINNING PROJECT CONSTRUCTION, A CONSTRUCTION TRAFFIC CONTROL PLAN SHALL BE DEVELOPED BY THE CONTRACTOR FOLLOWING GUIDELINES AS DESCRIBED IN THE CITY OF LEE'S SUMMIT TRAFFIC CONTROL PLAN ON SHEET G006 TRAFFIC CONTROL DETAILS. CONTRACTOR SHALL SUBMIT THE TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES AND TEMPORARY SIGNAGE FOR SURROUNDING ROADWAYS AS IDENTIFIED ON THE SUBMITTED TRAFFIC CONTROL PLAN. DAMAGED DEVICES SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL INSTALL 'AUTHORIZED PERSONNEL ONLY' SIGN AT ACCESS ROAD ENTRANCE FOR PROJECT DURATION.

15. EROSION CONTROL NOTES

1. PRIOR TO COMMENCING ANY SITE GRADING OR DEMOLITION, CONTRACTOR MUST INSTALL EROSION CONTROL MEASURES PER THE REQUIRED MINIMUM PERMANENT STORMWATER MANAGEMENT PRACTICES TO SATISFY STORMWATER PLANS, LOCAL PERMITTING REQUIREMENTS, AND THE EROSION CONTROL DEVICES AS DESIGNATED PER THESE PROJECT PLANS.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS EARLY AS PRACTICAL. ALL CONTROLS SHALL BE MONITORED REGULARLY, MAINTAINED, AND MODIFIED TO MAINTAIN EFFECTIVENESS.

16. HAZARD MARKING AND LIGHTING

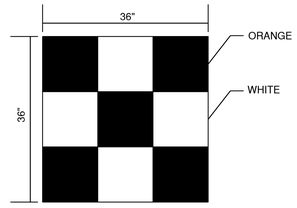
1. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND HIS/HER CONSTRUCTION EQUIPMENT.
2. ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G AND 150/5210-5D AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY.
3. BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEET OR AS DIRECTED BY THE AIRPORT.
4. THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO ENSURE PROPER PLACEMENT AND PROPER OPERATION OF THE RED LIGHTS.

17. PROTECTION

1. THE CONTRACTOR SHALL NOT OPERATE ON ANY ACTIVE AIRFIELD PAVEMENTS.
2. IF THE CONTRACTOR DAMAGES OR DIRTIES ANY ACTIVE PAVEMENTS THEY SHALL BE FIXED/CLEANED IMMEDIATELY.
3. THE CONTRACTOR SHALL STAY CLEAR OF ALL TAXIWAY OBJECT FREE AREAS AND RUNWAY OBJECT FREE AREAS. THESE LIMITS CAN BE FOUND ON THE CONSTRUCTION ACTIVITY PLAN.
4. THE RUNWAY APPROACH/DEPARTURE SURFACE IS A PROTECTED AIRSPACE SURFACE BEGINNING 200 FEET BEYOND ALL RUNWAY ENDS AND EXTENDS OUTWARED FROM THE RUNWAY AT A SLOPE OF 34:1 FOR 1,000 FEET. ALL CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL NOT BE PERMITTED TO PENETRATE THIS SURFACE.

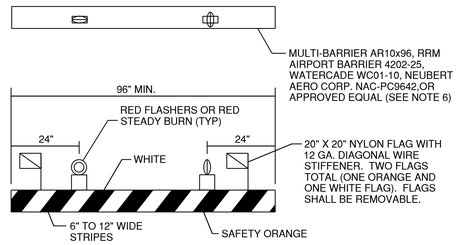
18. OTHER LIMITATIONS ON CONSTRUCTION

1. IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.
2. BROKEN CONCRETE, BROKEN ASPHALT, UNUSED PAINT, UNUSED SEALANT AND OTHER MISCELLANEOUS DEBRIS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS, UNLESS OTHERWISE SPECIFIED.
3. PER AC 150/5370-2G, SECTION 2.22.2, EQUIPMENT MUST BE REMOVED FROM THE ROFA WHEN NOT IN USE.



CONSTRUCTION EQUIPMENT AND TRUCK SIGNAL FLAG

N.T.S



PLAN

BARRICADE NOTES:

1. FLASHER OR STEADY BURN LIGHTS SHALL BE BATTERY OR SOLAR POWER OPERATED AND SHALL BE SECURED FIRMLY TO THE BARRICADES, AS APPROVED BY THE RESIDENT ENGINEER. LENS SHALL BE RED AND BE ABLE TO ROTATE 90^.
2. FACING OF BARRICADE SHALL BE COVERED WITH REFLECTIVE TAPE OR PAINT.
3. BARRICADES TO BE PLACED AT SPACINGS AS INDICATED ON THE CAP SHEETS. BARRICADES WILL EITHER BE PLACED WITH MAXIMUM 4' GAPS FROM EACH OTHER, OR 0' GAPS (OR INTERLOCKING BARRICADES) PER FAA AC 150/5370-2F, IN THE LOCATIONS AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN SHEETS.
4. BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF IT COMPONENTS, AND WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. IF AFFIXED TO THE SURFACE, THE BARRICADE MUST BE FRANGIBLE AT GRADE LEVEL OR LOW AS POSSIBLE, BUT NOT TO EXCEED 3 INCHES ABOVE THE GROUND.
5. BARRICADES SHALL BE OF A COMMERCIAL DESIGN AND SHALL MEET CURRENT FAA REQUIREMENTS.
6. THE COST OF FURNISHING AND MAINTAINING BARRICADES THROUGHOUT THE LIFE OF THE PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
7. ALL BARRICADES ON RUNWAY, TAXIWAY OR APRONS SHALL BE LOW PROFILE BARRICADES.

LOW PROFILE LIGHTED BARRICADE

N.T.S.

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: CAP NOTES
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

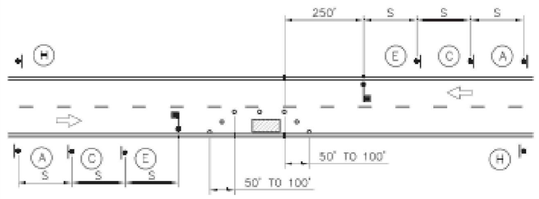
CAP NOTES

G005

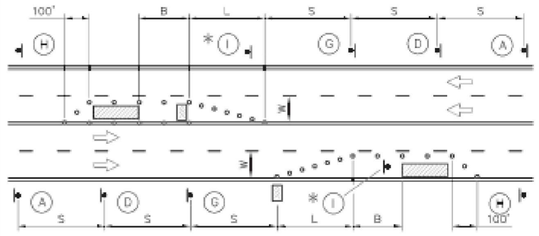
Path: K:\LeesSummitMO\22001238.00\Drawsheets\GA TERMINAL DESIGN SHEETS\CAP NOTES.dwg
Date: Monday, November 25, 2024 1:42:47 PM

SYMBOL LEGEND

WORK AREA — SIGN — BARRICADE — DIRECTION OF TRAVEL — CHANNELIZER — ARROW PANEL — FLAGGER

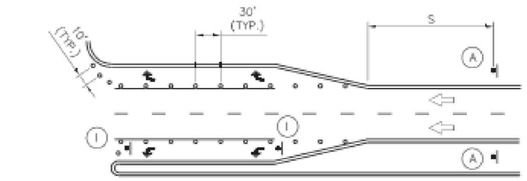


LANE CLOSURE – TWO LANE STREET

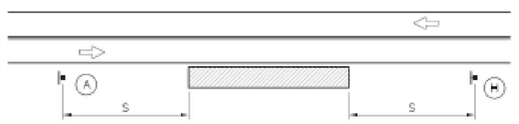


LANE CLOSURE – FOUR LANE STREET

*INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



TURN LANE CLOSURE



TYPICAL SIGNING FOR WORK ADJACENT TO THE STREET

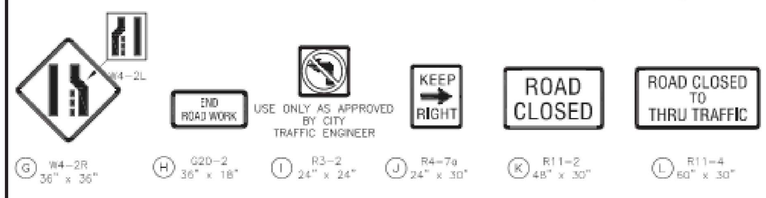
GUIDELINES FOR LENGTH OF LONGITUDINAL BUFFER SPACE "B"	
SPEED LIMIT (MPH)	LENGTH (FEET)
25	35
30	55
35	85
40	120
45	170

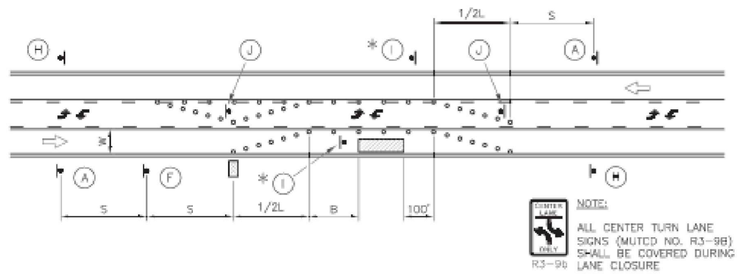
MAXIMUM CHANNELIZER SPACING		
SPEED LIMIT (MPH)	WITHIN TAPER (FEET)	OUTSIDE TAPER (FEET)
25	25	50
30	30	60
35	35	70
40	40	80
45	45	90

TAPER DIMENSIONS (FEET)				
SPEED LIMIT (MPH)	MINIMUM TAPER LENGTH "L", PER LANE WIDTH "W"			MINIMUM NUMBER OF CHANNELIZERS
	10	11	12	
25	105	115	125	6
30	150	165	180	7
35	205	225	245	8
40	270	295	320	9
45	450	495	540	13

SIGN SPACING "S"	
SPEED LIMIT (MPH)	SPACING (FEET)
25	100
30–35	250
40	350

SIGN LEGEND

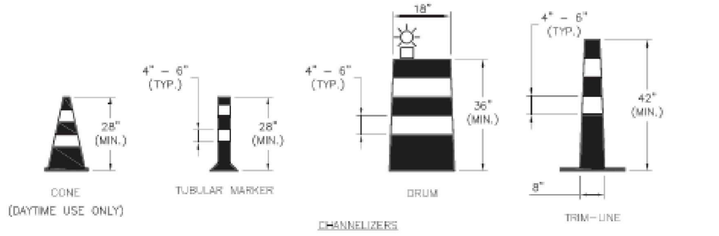




NOTE:
ALL CENTER TURN LANE SIGNS (MUTCD NO. R3-9B) SHALL BE COVERED DURING LANE CLOSURE

LANE CLOSURE – THREE LANE STREET

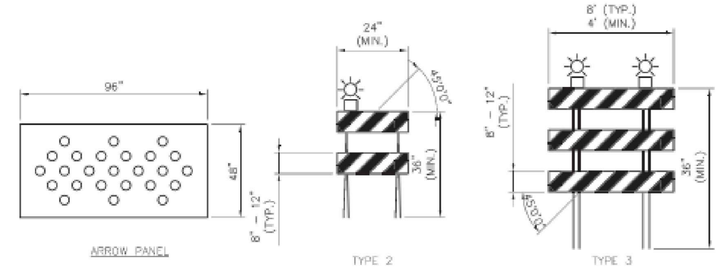
*INSTALL SIGNS EVERY 200 FEET THROUGHOUT THE CLOSED LANE OR AS NEEDED



CONE (DAYTIME USE ONLY) — TUBULAR MARKER — DRUM — TRIM-LINE

CHANNELIZERS

NOTE:
WHITE BANDS ON BARRICADES AND CHANNELIZERS SHALL BE MADE FROM HIGH INTENSITY SHEETING MATERIAL.



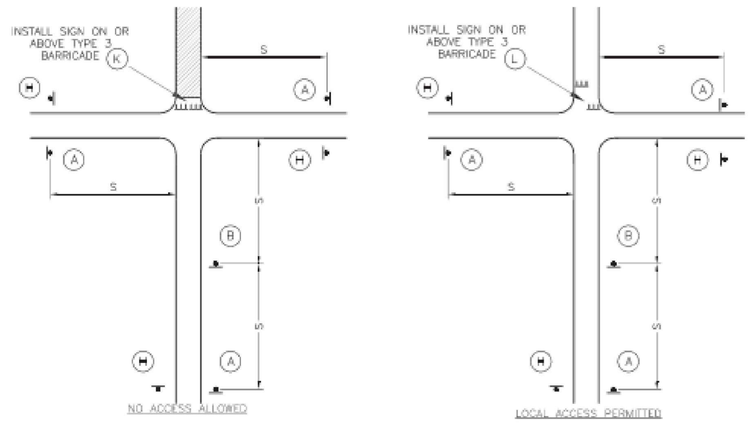
ARROW PANEL — TYPE 2 — TYPE 3

(OPTIONAL ON TWO LANE AND THREE LANE STREETS WITH SPEEDS LESS THAN 35 MPH)

BARRICADES

GENERAL NOTES:

1. ALL SIGNS, BARRICADES, CHANNELIZERS, MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL TRAFFIC CONTROL DEVICES SHALL BE STANDARD IN SIZE, SHAPE, COLOR, AND MESSAGE, IN GOOD CONDITION, AND RETRO-REFLECTORIZED. ALL SIGNS SHALL BE SECURELY MOUNTED WITH HEIGHT AND LATERAL LOCATION AS DESCRIBED IN THE MUTCD.
3. WARNING LIGHTS SHALL BE USED ON BARRICADES IN PLACE AT NIGHT AND ON WARNING SIGNS WHICH ALERT DRIVERS ABOUT A CHANGE IN ALIGNMENT, TRAFFIC CONTROL, LANE CLOSURE, OR ROAD CLOSURE.
4. FLAGGERS SHALL BE USED WHERE INDICATED ON THE PLANS, WHERE CONSTRUCTION VEHICLES INTERACT WITH NORMAL TRAFFIC, OR WHERE CONSTRUCTION ACTIVITIES IMPOSE A RESTRICTION ON TRAFFIC, AS DIRECTED BY THE CITY TRAFFIC ENGINEER. WHERE FLAGGERS ARE USED, ADVANCE SIGNING SHALL BE ERECTED AS SHOWN IN THE DETAILS OR AS SPECIFIED IN THE MUTCD. FLAGGERS SHALL MEET THE REQUIREMENTS IN THE MUTCD IN REGARD TO CHARACTER, TRAINING, ATTIRE, AND BEHAVIOR.
5. TRIM-LINES ARE THE CITY'S PREFERRED CHANNELIZING DEVICE. CONES MAY NOT BE USED AT NIGHTTIME.
6. TRAFFIC CONTROL DEVICES NOT IN USE OR NOT APPLICABLE SHALL BE EITHER COVERED OR REMOVED FROM THE WORK AREA.
7. THE CONTRACTOR SHALL USE BARRICADES, STREET PLATES, OR FENCING AS NEEDED TO EFFECTIVELY SHIELD PEDESTRIAN AND VEHICULAR TRAFFIC FROM EXPOSED OBJECTS, EXCAVATIONS, AND CONSTRUCTION ACTIVITIES.
8. ACCESS SHALL BE MAINTAINED TO ALL DRIVEWAYS AND SIDE STREETS UNLESS NOTED OTHERWISE ON THE PLANS.
9. NO STREET SHALL BE CLOSED WITHOUT THE APPROVAL OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT LEAST 7 DAYS IN ADVANCE OF ANY STREET CLOSURE. IF A DETOUR ROUTE AROUND THE CLOSURE IS TO BE PROVIDED, ALL DETOUR SIGNING SHALL BE AS SHOWN ON A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
10. CONSTRUCTION VEHICLES PARKED ALONG STREETS SHALL BE LOCATED WITHIN THE WORK AREA (TRAFFIC CONTROL) OR WHERE OTHERWISE NORMALLY PERMITTED. CONSTRUCTION MATERIALS, INCLUDING TRAFFIC CONTROL AND VEHICLES SHALL NOT RESTRICT SIGHT DISTANCE FOR VEHICLES EXITING AT STREETS OR DRIVES.
11. CONSTRUCTION MATERIALS SHALL BE KEPT OFF OF SIDEWALKS, CONSOLIDATED IN ONE LOCATION WITHIN CITY RIGHT-OF-WAY, AND REMOVED DAILY UNLESS OTHERWISE APPROVED BY THE INSPECTOR. DIRT, MUD, AND OTHER CONSTRUCTION DEBRIS ON STREETS AND SIDEWALKS SHALL BE REMOVED IMMEDIATELY.
12. THE CONTRACTOR SHALL NOT PERFORM ANY WORK THAT WILL RESTRICT VEHICULAR TRAFFIC IN ANY WAY BETWEEN THE HOURS OF 7:00 A.M. AND 9:00 A.M. OR 4:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS.
13. ALL TRAVEL LANES SHOULD BE AT LEAST 11 FEET WIDE UNLESS OTHERWISE AUTHORIZED BY THE CITY TRAFFIC ENGINEER. A "NARROW LANES" SIGN SHALL BE INSTALLED IN ADVANCE OF A LANE WIDTH REDUCTION TO LESS THAN 11 FEET.
14. ALL EDGE DROP-OFFS OF MORE THAN 2 INCHES AND LESS THAN 4 INCHES SHOULD BE PROTECTED BY A WEDGE OR BARRIER AND ALL EDGE DROP-OFFS GREATER THAN 4 INCHES SHALL HAVE EDGE PROTECTION (SEE TRAFFIC CONTROL SPECIFICATIONS FOR EDGE TREATMENT REQUIREMENTS).
15. THE "WORKERS" SYMBOLIC SIGN (MUTCD NO. W21-1A) MAY BE USED INSTEAD OF THE "ROAD WORK AHEAD" SIGN FOR WORK WITH A DURATION OF 12 HOURS OR LESS. THE "END ROAD WORK" SIGN IS NOT REQUIRED TO BE INSTALLED AFTER THE "WORKERS" SIGN.
16. NO TRAFFIC SIGNAL SHALL BE ALTERED OR MODIFIED IN ANY WAY WITHOUT A PLAN APPROVED BY THE CITY TRAFFIC ENGINEER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRAFFIC CONTROL DEVICES ON AN AROUND-THE-CLOCK BASIS, WHETHER OR NOT WORK IS ACTIVELY BEING PURSUED AND ANY DEFICIENCIES NOTED SHALL BE CORRECTED IMMEDIATELY.
18. THE TRAFFIC CONTROL REQUIREMENTS SHOWN ON THESE PLANS ARE MINIMUM REQUIREMENTS ONLY AND DO NOT ATTEMPT TO ADDRESS IN DEPTH THE VARIETY OF SITUATIONS THAT MAY OCCUR ONCE CONSTRUCTION HAS STARTED. IN NO WAY DO THE REQUIREMENTS SHOWN ON THESE PLANS RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR SELECTING THE PROPER TRAFFIC CONTROL DEVICES AND IMPLEMENTATION PROCEDURES THAT WILL ASSURE THE SAFETY OF DRIVERS, PEDESTRIANS, AND WORKERS AT ALL TIMES.
19. SHOULD THE CONTRACTOR FAIL TO ENFORCE THE TRAFFIC CONTROL PLAN OR FAIL TO CLEAN, REPLACE OR OTHERWISE MAINTAIN THE TRAFFIC CONTROL DEVICES WHEN DIRECTED TO DO SO BY THE CITY TRAFFIC ENGINEER OR REPRESENTATIVE, THE CITY MAY TAKE ONE OR MORE OF THE FOLLOWING ACTIONS:
    A. EMPLOY ANOTHER AGENCY TO CORRECT DEFICIENCIES IN TRAFFIC CONTROL DEVICES AND DEDUCT THE COST FROM THE CONTRACTOR'S PAY ESTIMATE.
    B. STOP THE WORK UNTIL DEFICIENCIES ARE CORRECTED.
    C. SUSPEND ALL PAY ESTIMATES UNTIL DEFICIENCIES ARE CORRECTED, OR
    D. PLACE THE CONTRACTOR IN DEFAULT.



TYPICAL STREET CLOSURE

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KANSAS CITY - LEE'S SUMMIT
REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: CAP NOTES
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

TRAFFIC CONTROL DETAILS

G006

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Date: Monday, November 25, 2024 4:24:52 PM

CODE INFORMATION

FACILITY NAME: LXT TERMINAL - EASTSIDE DEVELOPMENT

ADDRESS: NE HAGAN RD LEE'S SUMMIT MISSOURI
OWNER: THE CITY OF LEE'S SUMMIT

PROJECT SCOPE
NEW APPROXIMATELY 10,600 SF FOOTPRINT AIRPORT TERMINAL

ADOPTED CODES
- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2021 LIFE NFPA SAFETY CODE
- ICC/ANSI A117.1-2009
- ORDINANCES OF THE UNITED GOVERNMENT OF LEE'S SUMMIT, MISSOURI

BUILDING OCCUPANCY, HEIGHT, AND AREA (TABLES 504.3, 504.4 & 506.2)
FOR TYPE II-B, FULLY SPRINKLED CONSTRUCTION.

B OCCUPANCY : ALLOWABLE: 69,000 SF, 4 STORIES, 75FT HEIGHT
A-3 OCCUPANCY: ALLOWABLE: 28,500 SF, 3 STORY, 75FT HEIGHT
ACTUAL: 10,600 SF, 1 STORY + 749 SF MEZZANINE, 27FT HIGH

NON SEPARATED OCCUPANCIES: ALLOWABLE BUILDING AREA IS BASED ON MOST RESTRICTIVE USE.

TYPES OF CONSTRUCTION
FIRE-RESISTANCE RATING REQUIREMENTS OF II-B CONSTRUCTION FOR BUILDING ELEMENTS

BUILDING ELEMENT	FR RATING (HOURS)
PRIMARY STRUCTURAL FRAME	0
EXTERIOR WALLS WITH FIRE SEPARATION DISTANCE > 10'	0
INTERIOR BEARING WALLS	0
NONBEARING WALLS & PARTITIONS	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0

FIRE PROTECTION AND LIFE SAFETY SYSTEMS
AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13
NOTE: SPRINKLER SYSTEM IS TO BE DESIGN BUILD BY G.C. - DEFERRED SUBMITTAL
ALARM SYSTEM IS TO BE DESIGN BUILD BY GC - DEFERRED SUBMITTAL
-G.C.SHALL PROVIDE CUT SHEETS FOR IMPACT RESISTANT DOORS, WINDOWS, ETC TO THE CITY AS REQUIRED, DEFERRED SUBMITTAL

EXITING

1004.2 OCCUPANT LOAD			
BUSINESS	150 GROSS	1,637 SF	15
ASSEMBLY CONCENTRATED (QUEUING)	7 NET	126 SF	18
ASSEMBLY UNCONCENTRATED	15 NET	4,374 SF	289
ACCESSORY STORAGE/MECHANICAL	300 GROSS	874 SF	5
LOCKER ROOM	50 GROSS	226 SF	5
TOTAL OCCUPANT LOAD			332

EXIT ACCESS - COMMON PATH OF EGRESS TRAVEL PER TABLE 1006.2.1
B & A3 OCCUPANCY WITH SPRINKLER SYSTEM
B OCCUPANTS = 100'
A OCCUPANCY = 75'

EXITS REQUIRED BASED ON OCCUPANCY: 2

EXIT AND EXIT ACCESS DOORWAYS
B OCCUPANCY: MORE THAN ONE EXIT REQUIRED WHEN OCCUPANT LOAD EXCEEDS 49
EXIT ARRANGEMENT WITH SPRINKLER: NOT LESS THE ONE-THIRD THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF AREA TO BE SERVED

EXIT ACCESS TRAVEL DISTANCE WITH SPRINKLER SYSTEM PER TABLE 1017.2
B OCCUPANCY: 300'
A OCCUPANCY: 250'

REFER TO CODE PLANS FOR EGRESS WIDTHS REQUIRED AND PROVIDED AT DOORS.

MINIMUM CORRIDOR WIDTH:
REQUIRED OCCUPANCY CAPACITY < 50 = 36"
REQUIRED OCCUPANCY CAPACITY ≥ 50 = 44"

SEISMIC INFORMATION - REFER TO STRUCTURAL DRAWINGS
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: 1.0
SITE CLASS: D
SEISMIC DESIGN CATEGORY: B

PLUMBING FIXTURES: (SECTION 29 TABLE 2902.1)

PLUMBING FIXTURE CALCULATIONS:

	WATER CLOSETS		URINALS	LAVATORIES	
	REQUIRED	PROVIDED	PROVIDED	REQUIRED	PROVIDED
BUSINESS	2	2	0	1	3
ASSEMBLY	2	6	2	1	5
TOTAL	4	8	2	2	8

	DRINKING FOUNTAIN		SERVICE SINK	
	REQUIRED	PROVIDED:	REQUIRED	PROVIDED:
BUSINESS	1	1	1	1
ASSEMBLY (LOBBY)	1	1	1	0
TOTAL	1	2	1	1

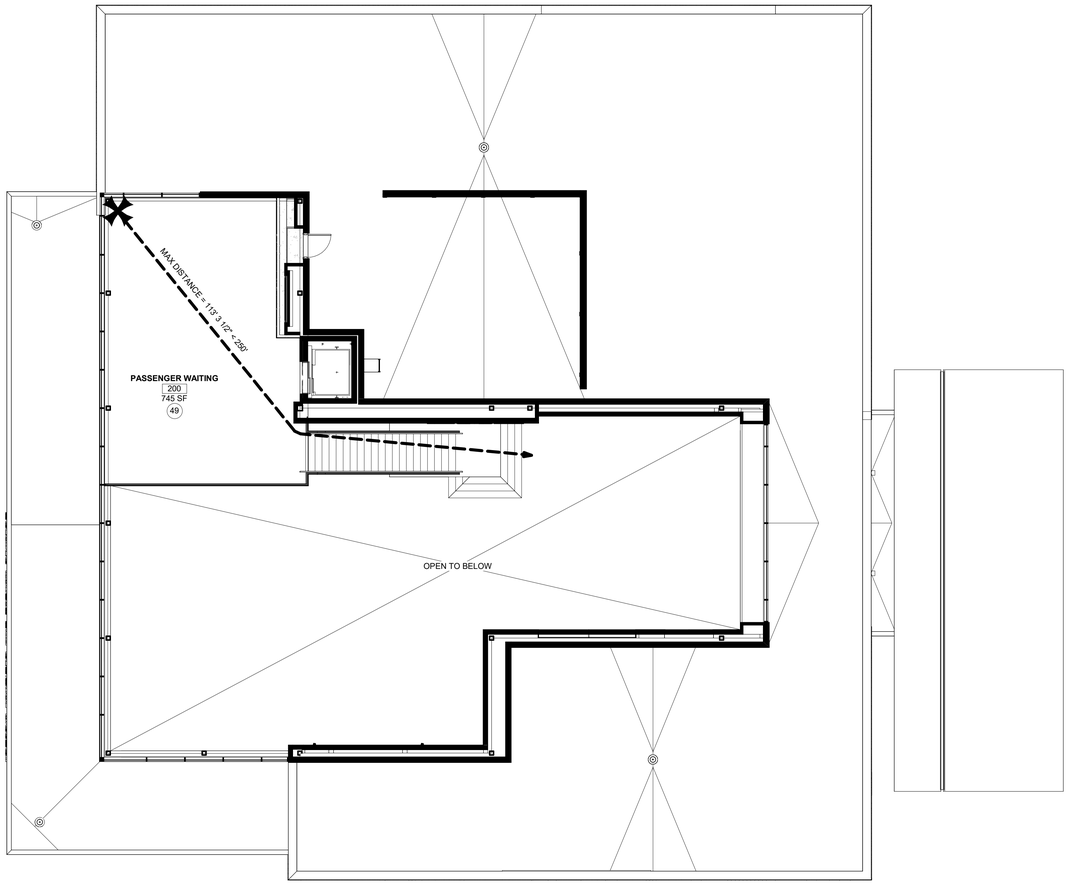
CODE PLANS LEGEND

- START LOCATION OF MAXIMUM TRAVEL DISTANCE
- TRAVEL PATH
- EXIT
- EXIT LOAD (PERSON)
- 1 HR RATED
- 2 HR RATED
- FE-1 SEMI RECESSED MOUNTED 2-A:20-B:C FIRE EXTINGUISHER
- FE-2 RECESSED MOUNTED 2-A:20-B:C FIRE EXTINGUISHER

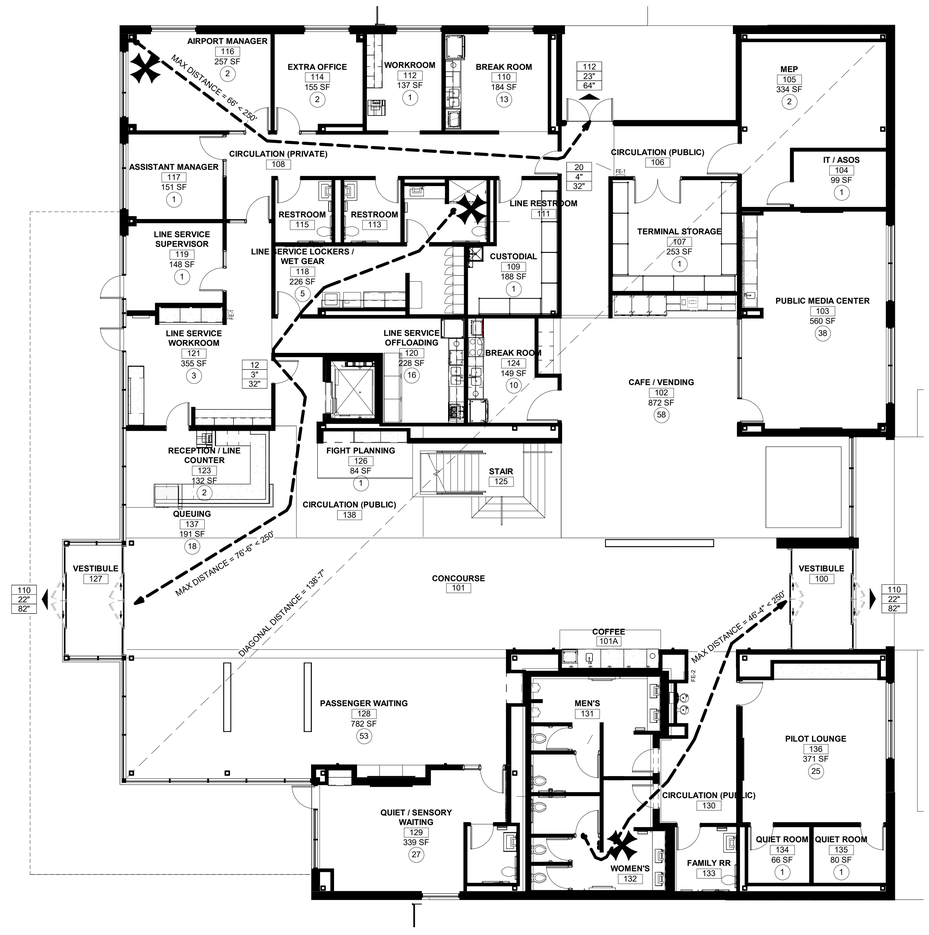
FIRE EXTINGUISHER AND CABINET TYPE DESIGNATION. PORTABLE FIRE EXTINGUISHERS ARE REQUIRED TO BE INSTALLED IN ACCORDANCE WITH SECTION 906.

NOTE: FOR PROPERTY LINE LOCATIONS RE:CIVIL

ROOM NAME • XXXXXX
ROOM NUMBER • XXX
SQUARE FEET • XXX SF
NUMBER OF OCCUPANTS • (X)
OCCUPANT EGRESS • XXXX
EGRESS WIDTH REQUIRED • XXXX
EGRESS WIDTH PROVIDED • XXXX



MEZZANINE CODE PLAN 2
1/8" = 1'-0"



1ST FLOOR CODE PLAN 1
1/8" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Weilner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WEILNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver
COPYRIGHT 2024	

SHEET TITLE
CODE INFORMATION AND PLANS

G-007
SHEET OF

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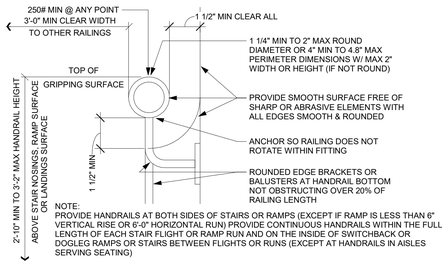
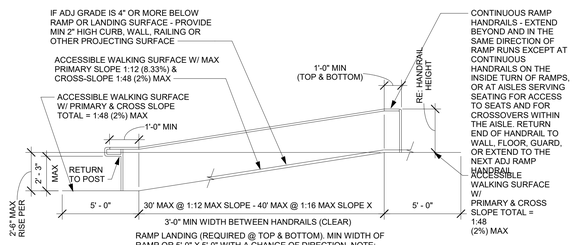
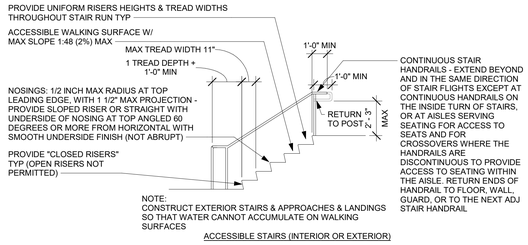


RAMP & STAIR HANDRAILS (INTERIOR OR EXTERIOR)

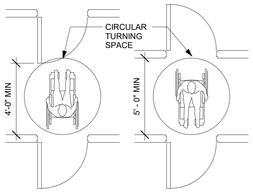


ACCESSIBLE RAMPS (INTERIOR OR EXTERIOR)

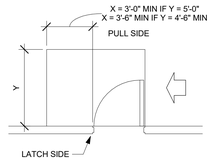


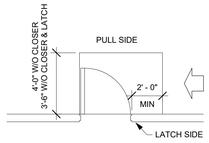
ACCESSIBLE STAIRS (INTERIOR OR EXTERIOR)

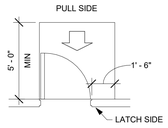
ACCESSIBLE STAIRS/RAMPS & HANDRAIL DETAILS

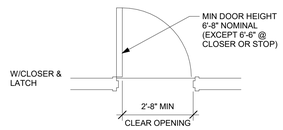


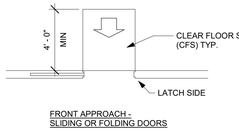
DOORS/GATES IN SERIES



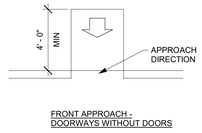




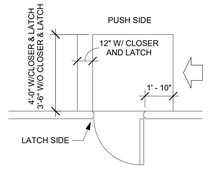




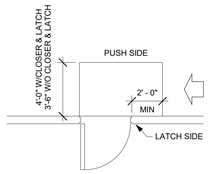
FRONT APPROACH -
SLIDING OR FOLDING DOORS



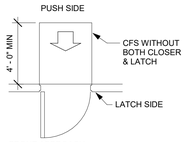
FRONT APPROACH -
DOORWAYS WITHOUT DOORS



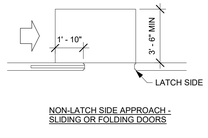
HINGE SIDE APPROACH -
SWINGING DOOR OR GATE



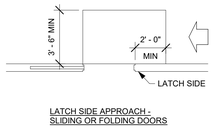
LATCH SIDE APPROACH
SWINGING DOOR OR GATE



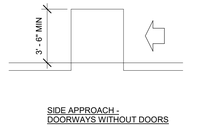
FRONT APPROACH -
SWINGING DOOR OR GATE



NON-LATCH SIDE APPROACH -
SLIDING OR FOLDING DOORS



LATCH SIDE APPROACH -
SLIDING OR FOLDING DOORS



SIDE APPROACH -
DOORWAYS WITHOUT DOORS

DOOR OR GATE CLEARANCES

RE: CLEAR SPACE REQUIREMENTS FOR MIN DOOR OPENINGS WIDTHS
RE: CLEAR SPACE REQUIREMENTS FOR INTERIOR SIGNAGE

THE INFORMATION ON THESE ACCESSIBILITY DRAWINGS IS PROVIDED AS A GUIDE TO THE CONTRACTOR AND TO ANY OTHER ENTITIES INSTALLING BUILDING EQUIPMENT OR FIXTURES. THESE DRAWINGS ARE ABBREVIATED AND DO NOT INDICATE ALL CONDITIONS THAT MAY BE ENCOUNTERED AND THEY DO NOT INCLUDE ALL REQUIREMENTS OF EITHER THE ADA OR ICC/ANSI A117.1 IN THEIR ENTIRETY.

THE AMERICANS WITH DISABILITIES ACT (ADA) IS A CIVIL-RIGHTS LAW (NOT A BUILDING CODE) AND IS THEREFORE NOT NECESSARILY ENFORCEABLE BY AUTHORITIES HAVING JURISDICTION, EXCEPT IN CERTAIN STATES WITH THEIR OWN ACCESSIBILITY REQUIREMENTS (INCLUDING BUT NOT LIMITED TO CALIFORNIA, TEXAS & ILLINOIS), THE ACCESSIBILITY REQUIREMENTS OF ICC/ANSI A117.1 ARE TYPICALLY REQUIRED THROUGH THE BUILDING CODE.

COMPLY WITH REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) EVEN IF NOT REQUIRED BY BUILDING CODES, REGULATIONS OR ORDINANCES (ADA IS A FEDERAL LAW), AND AS INDICATED ON THESE DRAWINGS:

ACCESSIBLE ROUTE:

PROVIDE AN ACCESSIBLE ROUTE CONNECTING ALL ACCESSIBLE SPACES AND ELEMENTS, INCLUDING WALKING SURFACES, RAMPS & CURB-RAMPS (EXCLUDING THE FLARED SIDES), DOORS & DOORWAYS, AND/OR ELEVATORS & PLATFORM LIFTS. AN ACCESSIBLE ROUTE MAY BE LOCATED AT EXTERIOR WALKS, AISLES, HALLS, CORRIDORS, SKYWALKS OR TUNNELS

ACCESSIBLE WALKING SURFACES: PROVIDE STABLE, FIRM, & SLIP-RESISTANT SURFACE FINISHES W/ SURFACE OPENINGS (GRATINGS) NOT TO PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE - WITH LONGEST DIMENSION PERPENDICULAR TO DIRECTION OF TRAVEL

MINIMUM WHEELCHAIR TURNING SPACE CAN INCLUDE ALLOWABLE FIXTURE KNEE & TOE CLEARANCES UNO. DOOR SWINGS ARE PERMITTED TO OVERLAP TURNING SPACE UNO.

ACCESSIBLE BUILDING ENTRANCES:

PROVIDE 60% (MIN) OF ALL PUBLIC BUILDING ENTRANCES (EXCLUDING THOSE FOR LOADING OR SERVICE USE) ACCESSIBLE FROM: ACCESSIBLE PARKING, A PUBLIC TRANSPORTATION STOP, OR FROM A PASSENGER LOADING ZONE (AS APPLICABLE) WITHOUT STEPS OR ABRUPT CHANGES IN LEVEL.

PROVIDE ONE (1 - MIN) ACCESSIBLE BUILDING ENTRANCE AT THE GROUND FLOOR LEVEL AND ONE (1 - MIN) ACCESSIBLE ENTRANCE TO EACH PROPOSED TENANT SPACE IN A MULTIPLE-TENANT BUILDING.

PROVIDE ACCESSIBLE ENTRANCE AT SERVICE OR LOADING ENTRIES (NOT INTENDED FOR ENTRANCE BY THE PUBLIC) IF THAT IS THE ONLY ENTRANCE TO A SPACE OR BUILDING.

MULTI-LEVEL BUILDINGS: PROVIDE ONE (1 - MIN) ACCESSIBLE ROUTE (INCLUDING AN ELEVATOR TO CONNECT EACH BUILDING LEVEL ABOVE OR BELOW ACCESSIBLE LEVELS INCLUDING MEZZANINES) UNLESS THE FLOOR-AREA IS LESS THAN 3,000 SF AND DOES NOT INCLUDE FIVE (5) OR MORE MULTIPLE MERCANTILE (GROUP M) TENANTS, OR THE OFFICES OF HEALTH CARE PROVIDERS.

OPERABLE PARTS:

ACCESSIBLE OPERABLE PARTS INCLUDE CONTROLS AND OPERATING MECHANISMS (DOOR HARDWARE, WINDOW OPERATORS, DISPENSERS, LIGHT SWITCHES, CONVENIENCE OUTLETS, THERMOSTATS, ALARM CONTROLS, AND SIMILAR ELEMENTS).

PROVIDE AN ACCESSIBLE CLEAR-FLOOR SPACE AT ALL OPERATIONAL PARTS

OPERATION: BY USE OF ONE (1) HAND WITH A SINGLE EFFORT WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST - WITH FIVE (5.0) POUNDS MAXIMUM OPERATIONAL FORCE. COMPLY WITH ALLOWABLE REACH RANGES FOR HEIGHT OF OPERABLE PARTS.

ACCESSIBLE DOOR & GATE REQUIREMENTS:

REVOLVING DOORS OR GATES ARE NOT ACCESSIBLE.

SECURITY & MAINTENANCE DOORS (INCLUDING SERVICE-ACCESS DOORS) DO NOT NEED TO COMPLY WITH ACCESSIBILITY REQUIREMENTS.

DOUBLE-LEAF DOORS OR GATES: ONLY ONE LEAF (MIN) MUST COMPLY WITH ACCESSIBILITY REQUIREMENTS

RECESSED DOORS: PROVIDE FORWARD APPROACH CLEARANCE WITH ANY OBSTRUCTION WITHIN 18 INCH OF LATCH SIDE OF DOORWAY PROJECTING MORE THAN 8 INCHES BEYOND THE FACE OF DOOR MEASURED PERPENDICULAR TO FACE OF DOOR.

DOOR SURFACES: PROVIDE SMOOTH SURFACE WITHIN TEN (10) INCH AFF ON PUSH-SIDE EXTENDING FULL WIDTH WITH MAX 1/16 INCH BETWEEN SURFACE PLANE AND ANY PARTS (KICKPLATE). CAP CAVITIES FORMED BY KICKPLATES EXCEPT AT SLIDING DOORS. TEMPERED GLASS DOORS WITHOUT SIDE STILES WITH A BOTTOM RAIL WITH ITS TOP EDGE SLOPED 60 DEGREES FROM HORIZONTAL OR MORE, OR AT DOORS NOT EXTENDING TO 10 INCHES AFF

SIDELITES OR VISION LITES: AT DOORS AND SIDELITES ADJACENT TO DOORS WITH ONE OR MORE GLAZING PANELS PERMITTING VIEWING, PROVIDE BOTTOM EDGE OF AT LEAST ONE PANEL ON EITHER THE DOOR OR THE ADJACENT SIDELITE AT 43 INCHES MAXIMUM AFF, EXCEPT AT VISION LITES (ONLY) WITH THE LOWEST PART MORE THAN 66 INCHES AFF.

ACCESSIBLE DOOR & GATE HARDWARE:

PROVIDE ACCESSIBLE HARDWARE WITH AN EASY-TO-GRASP SHAPE COMPLYING WITH OPERABLE PARTS REQUIREMENTS (LEVERS PUSH/PULLS, OR PANIC DEVICES ARE ACCEPTABLE), MOUNTED BETWEEN 2'-10" AND 4'-0" AFF, WITH MAX PROJECTION (INTO REQUIRED MIN CLEARANCES) OF 4 INCH BTWN 34 - 80 INCH AFF

SLIDING DOOR/GATE HARDWARE: OPERABLE PARTS MUST BE EXPOSED AND USABLE FROM BOTH SIDES WHEN DOOR IS FULLY OPEN

DOOR/GATE CLOSERS: ADJUST UNITS TO PROVIDE FIVE (5) SECOND (MIN) TIME TO MOVE DOOR/GATE FROM 90-DEGREE OPEN-POSITION TO 12-DEGREE OPEN-POSITION.

DOOR/GATE SPRING-HINGES: ADJUST TO PROVIDE 1-1/2 SECOND MINIMUM TIME TO MOVE DOOR/GATE FROM 70-DEGREE OPEN-POSITION TO CLOSED-POSITION

OPENING-FORCE OF CLOSERS OR SPRING-HINGES: 5.0 LBS MAX @ INTERIOR HINGED, SLIDING OR FOLDING DOORS OR GATES (NOT APPLICABLE TO LATCH-BOLT RETRACTION FORCE AND NOT APPLICABLE TO OPENING FORCE AT FIRE-DOORS - TO BE AS REQD BY AJH)

AUTOMATIC DOORS OR GATES:

REFERENCED STANDARDS: COMPLY WITH ANSI/BHMA A156.10, AND FOR POWER-ASSIST AND LOW-ENERGY DOORS, COMPLY WITH ANSI/BHMA A156.19 (UNLESS DOORS OR GATES ARE DESIGNED TO BE OPERATED ONLY BY SECURITY PERSONNEL)

COMPLY WITH ACCESSIBLE CLEAR-FLOOR SPACE, THRESHOLD / FLOOR-SURFACE, AND DOORS-IN- SERIES REQUIREMENTS.

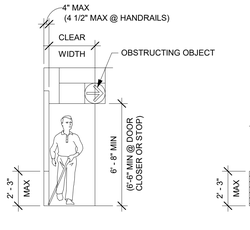
MANUAL CONTROLS: COMPLY WITH "OPERABLE PARTS" REQMTS WITH THE CLEAR FLOOR SPACE ADJACENT TO THE CONTROL SWITCH LOCATED BEYOND THE DOOR/GATE SWING.

ACCESSIBLE WINDOWS:

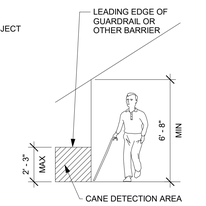
PROVIDE OPERATIONAL PARTS LOCATED PER "OPERABLE PARTS" REQMTS W/ MIN ACCESSIBLE CLEAR-FLOOR SPACE ADJACENT TO THE WINDOW.

SPECIAL ACCESS (PLATFORM) LIFTS (INTERIOR OR EXTERIOR):

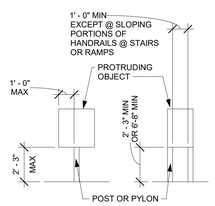
COMPLY WITH ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS, SECTION XX (WITH ACCESSIBLE KEY-CONTROLS IF LIFT TRAVEL AREA IS NOT ENCLOSED) AND AS FOLLOWS:
MAXIMUM TRAVEL HEIGHT: 60 INCHES
MINIMUM CAPACITY: 400 POUNDS
MINIMUM PLATFORM SIZE: 30 X 48 INCH
MAXIMUM SPEED: 20 FPM



LIMIT OF PROTRUDING OBJECT

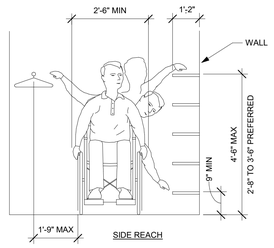


CANE DETECTION @
OVERHEAD HAZARDS

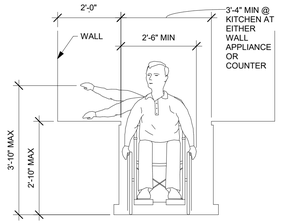


POST MOUNTED PROTRUDING OBJECTS

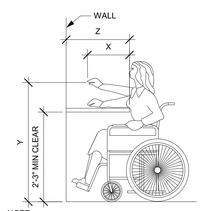
PROTRUDING OBJECTS



SIDE REACH

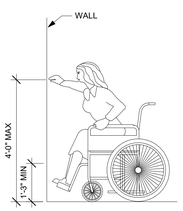


SIDE REACH OVER
OBSTRUCTION



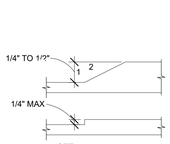
NOTE:
"X" = 2'-1" OR LESS
"Z" = LESS THAN "X"
"Y" = 4'-0" MAX WHEN "X" IS LESS THAN 1'-8"
OR "Y" = 3'-0" MAX WHEN "X" IS 1'-8" TO 2'-1"

FORWARD REACH OVER
OBSTRUCTION

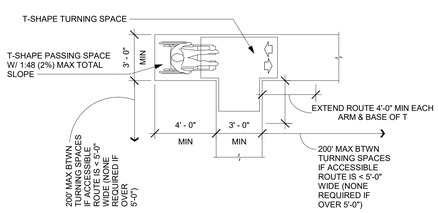


FORWARD REACH

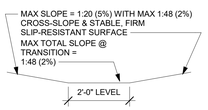
REACH RANGES



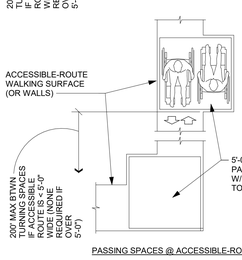
NOTE:
PROVIDE RAMP IF CHANGE
IS OVER 1/2" IN HEIGHT



ALLOWABLE CHANGE IN LEVEL

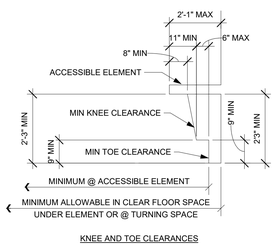


MAX SLOPE OF WALKING SURFACE @
ACCESSIBLE ROUTE

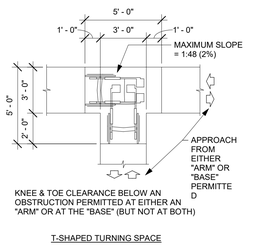


PASSING SPACES @ ACCESSIBLE-ROUTE

ACCESSIBLE ROUTES REQUIREMENTS

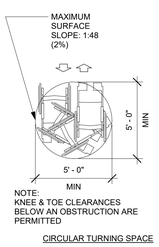


KNEE AND TOE CLEARANCES



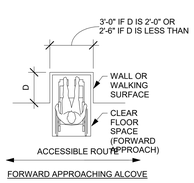
KNEE & TOE CLEARANCE BELOW AN
OBSTRUCTION PERMITTED AT EITHER AN
"ARM" OR AT THE "BASE" (BUT NOT AT BOTH)

T-SHAPED TURNING SPACE

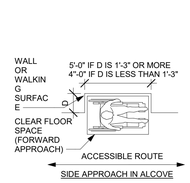


NOTE:
KNEE & TOE CLEARANCES
BELOW AN OBSTRUCTION ARE
PERMITTED

CIRCULAR TURNING SPACE

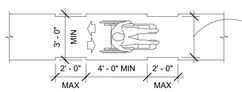


FORWARD APPROACHING ALCOVE

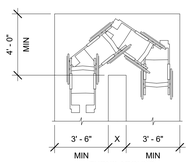


SIDE APPROACH IN ALCOVE

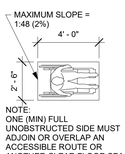
CLEAR SPACE REQUIREMENTS



MINIMUM CLEAR WIDTH
FOR SINGLE WHEELCHAIR



TURNS AROUND
AN OBSTRUCTION



NOTE:
ONE (MIN) FULL
UNOBSTRUCTED SIDE MUST
ADJOIN OR OVERLAP AN
ACCESSIBLE ROUTE OR
ANOTHER CLEAR FLOOR SPACE
CLEAR FLOOR SPACE (CFS)
REQUIREMENTS

CMT
1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

WELLNER ARCHITECTS + engineers
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108

OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

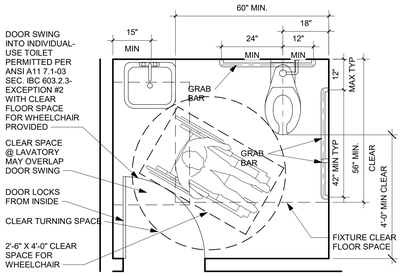
SHEET TITLE

ADA GENERAL ACCESSIBILITY

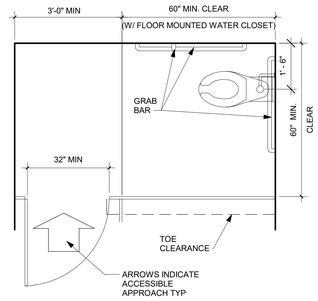
G-008

SHEET OF

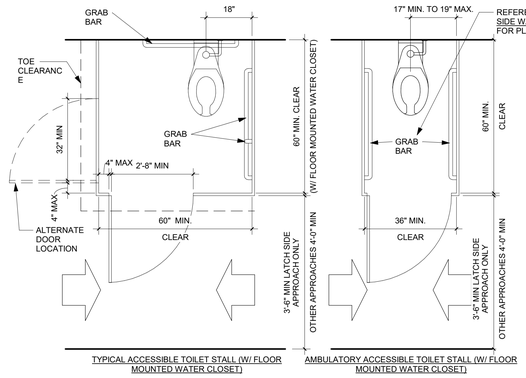
11/27/2024 9:17:30 AM



INDIVIDUAL-USE OR UNI-SEX TOILET ROOM



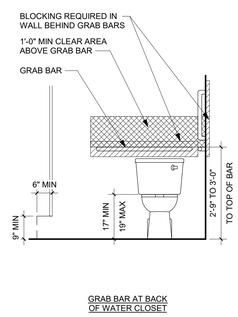
END OF ROW ACCESSIBLE TOILET STALL



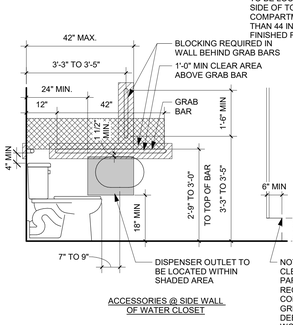
TYPICAL ACCESSIBLE TOILET STALL (W/ FLOOR MOUNTED WATER CLOSET)

AMBULATORY ACCESSIBLE TOILET STALL (W/ FLOOR MOUNTED WATER CLOSET)

TOILET APPROACHES FOR PUBLIC RESTROOMS



GRAB BAR AT BACK OF WATER CLOSET

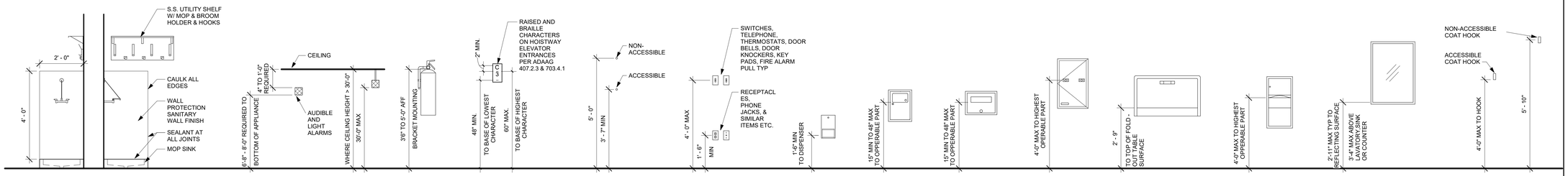


ACCESSORIES @ SIDE WALL OF WATER CLOSET

NOTE: FLUSH CONTROLS FOR ACCESSIBLE WATER CLOSETS TO BE LOCATED ON THE WIDE SIDE OF TOILET COMPARTMENTS NO MORE THAN 44 INCHES ABOVE FINISHED FLOOR.

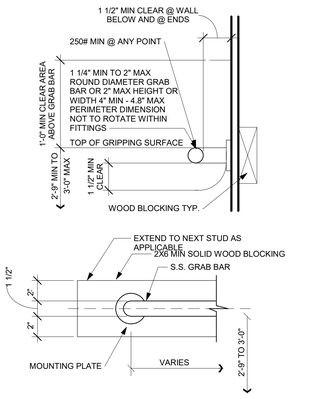
NOTE: TOE CLEARANCE AT FRONT PARTITION NOT REQUIRED IN COMPARTMENTS GREATER THAN 62" DEEP W/ WALL-HUNG WC OR 65" W/ FLOOR MOUNTED WC. TOE CLEARANCES AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66" WIDE.

ACCESSIBLE TOILETS

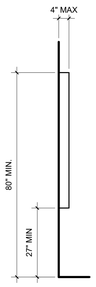


(PROVIDE ONE OF EACH WHERE REQUIRED)

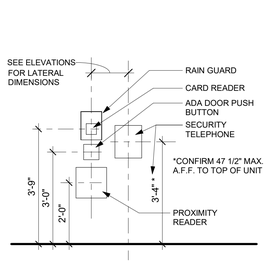
FIXTURE MOUNTING HEIGHTS



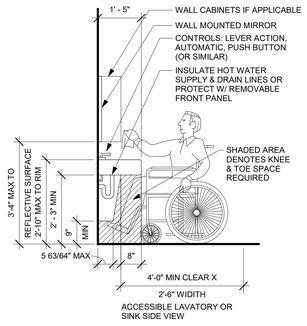
GRAB BAR DETAIL



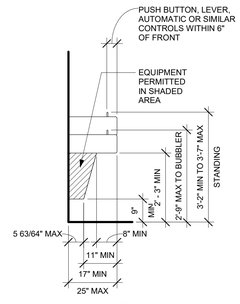
PROTRUDING OBJECTS

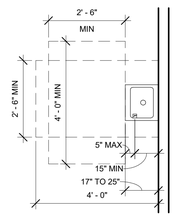


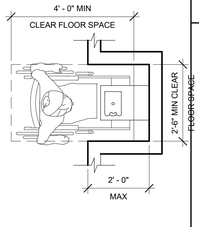
SECURITY DEVICE MOUNTING DIAGRAM



ACCESSIBLE LAVATORY OR SINK







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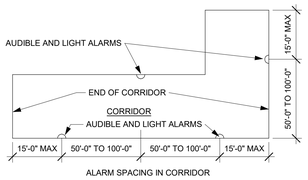
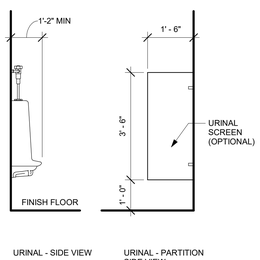


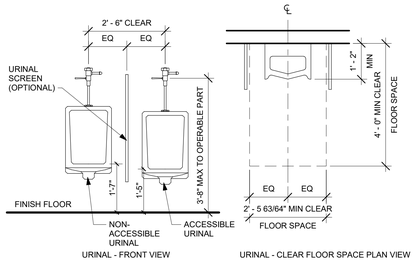
ALARM SPACING IN CORRIDOR

ALARM SPACING IN CORRIDOR



URINAL - SIDE VIEW

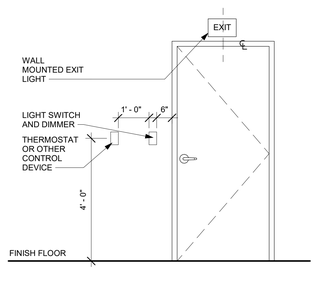
URINAL - PARTITION SIDE VIEW



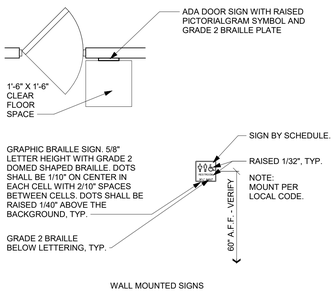
URINAL - FRONT VIEW

URINAL - CLEAR FLOOR SPACE PLAN VIEW

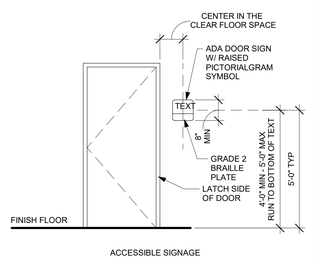
URINALS AND URINAL PARTITION



MISC APPLIANCE HEIGHTS



WALL MOUNTED SIGNS



ACCESSIBLE SIGNAGE

INTERIOR SIGNAGE

ADA INTERIOR ACCESSIBILITY

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

- Julie Black Wellner - Architect - MO #A-5006 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
- MO Certificate of Authority #000787 -

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

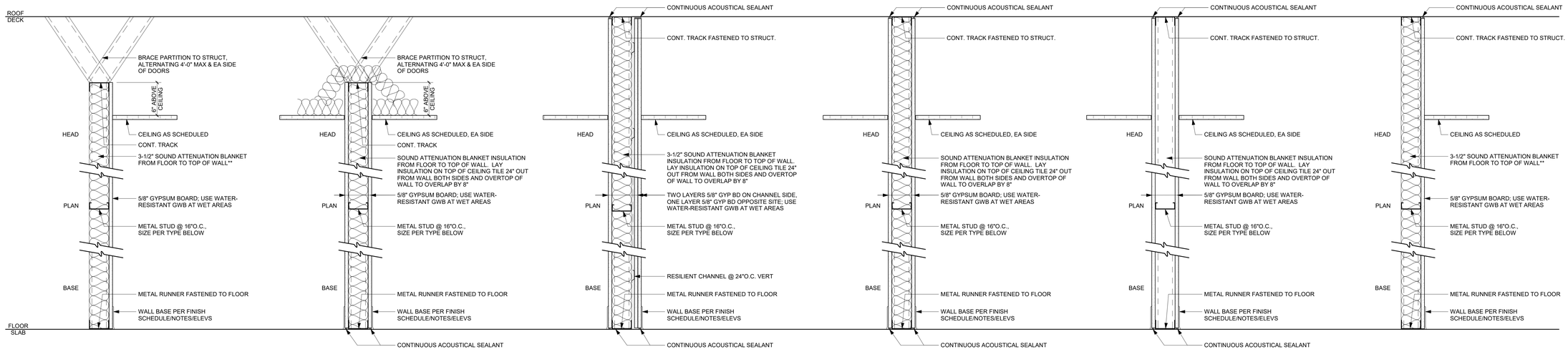
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver
COPYRIGHT	2024

SHEET TITLE

G-009

SHEET OF

11/27/2024 9:17:31 AM



TYPE 5A 4 1/4" TOTAL
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON ONE SIDE.
**INSULATION WHERE SHOWN ON ENLARGED PLANS.

TYPE 5B 6 5/8" TOTAL
6" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON ONE SIDE.
**INSULATION WHERE SHOWN ON ENLARGED PLANS.

PARTITION TYPE:
MTL STUD
ONE SIDED FINISH

TYPE 6A 4 7/8" TOTAL.
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES. 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

TYPE 6B 7 1/4" TOTAL.
6" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES WITH 6" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

PARTITION TYPE -
MTL STUD
TWO SIDED FINISH

TYPE 7A 6" TOTAL.
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ONE SIDE, TWO LAYERS 5/8" GYP BD SECOND SIDE OVER 1/2" RESILIENT CHANNEL. FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

PARTITION TYPE -
MTL STUD
TWO SIDED FINISH W/ RESILIENT CHANNEL

TYPE 8A 4 7/8" TOTAL.
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES. 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

TYPE 8B 7 1/4" TOTAL.
6" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES WITH 6" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

PARTITION TYPE -
MTL STUD
TWO SIDED FINISH

TYPE 9A 4 7/8" TOTAL.
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES. 3-1/2" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

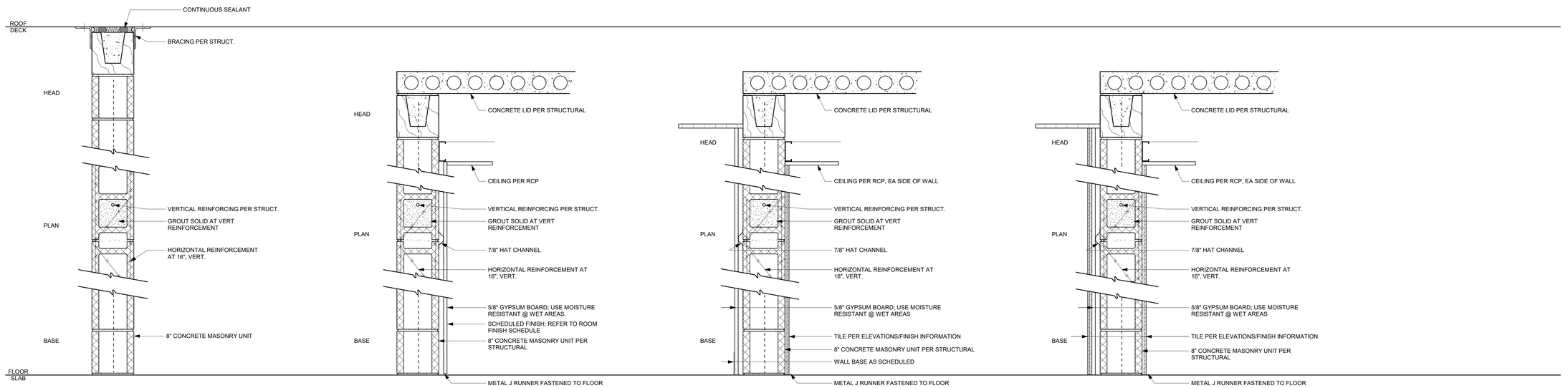
TYPE 9B 7 1/4" TOTAL.
6" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON BOTH SIDES WITH 6" FIBERGLASS SOUND ATTENUATION BLANKET INSULATION.

PARTITION TYPE -
MTL STUD
TWO SIDED FINISH

TYPE 10A 4 1/4" TOTAL
3 5/8" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON ONE SIDE.
**INSULATION WHERE SHOWN ON ENLARGED PLANS.

TYPE 10B 6 5/8" TOTAL
6" MTL STUD & GYP BD TO 6" ABOVE FINISH CEILING. 5/8" GYP BD ON ONE SIDE.
**INSULATION WHERE SHOWN ON ENLARGED PLANS.

PARTITION TYPE:
MTL STUD
ONE SIDED FINISH



TYPE 1A 8" CMU WALL TO TOP OF ELEVATOR SHAFT.

PARTITION TYPE - MASONRY
NO FINISH

TYPE 2A 8" CMU WALL TO CONCRETE LID ABOVE.
5/8" GYP BD ON 7/8" HAT CHANNELS.
FINISH MATERIAL PER ELEVATIONS/FINISH PLAN.

PARTITION TYPE -
MASONRY
ONE SIDED FINISH

TYPE 3A 8" CMU WALL TO CONCRETE LID ABOVE.
5/8" GYP BD ON 7/8" HAT CHANNELS ONE SIDE.
DIRECT-APPLIED TILE ONE SIDE.

PARTITION TYPE -
MASONRY
TWO SIDED FINISH

TYPE 4A 8" CMU WALL TO CONCRETE LID ABOVE.
5/8" GYP BD ON 7/8" HAT CHANNELS W/ APPLIED TILE ONE SIDE.
DIRECT-APPLIED TILE ONE SIDE.

PARTITION TYPE -
MASONRY
TWO SIDED FINISH

11/27/2024 9:17:32 AM

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver

SHEET TITLE

WALL TYPES

G-010

SHEET OF

N

0 20 40 FEET

PLAN LEGEND

- EXISTING FENCE
- FENCE TO BE REMOVED
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING CONTOURS
- EXISTING WATER MAIN
- EXISTING UNDERGROUND FIBER OPTIC
- EXISTING GAS MAIN
- EXISTING SANITARY SEWER
- EXISTING EAST APRON
- EXISTING ELECTRICAL METER
- EXISTING ELECTRICAL BOX
- EXISTING UTILITY HANDHOLE
- EXISTING POWER POLE
- EXISTING POWER POLE ANCHOR
- EXISTING FIRE HYDRANT AND WATER VALVE
- EXISTING LIGHT POLE

EAST APRON

HANGAR 2
(UNDER CONSTRUCTION IN SEPERATE PROJECT)

HANGAR 2 PARKING LOT
(UNDER CONSTRUCTION IN SEPERATE PROJECT)

CITY OWNED ROAD

EXISTING GATE TO REMAIN

BEGIN REMOVAL OF FENCE
PROTECT EXISTING GATE

PROPOSED TERMINAL

PROPOSED BUILDING LIMIT

REMOVE 118' OF FENCE

BEGIN REMOVAL OF FENCE

PROPOSED PARKING LOT LIMIT

REMOVE 34' OF CURB AND GUTTER

REMOVE 32' OF CURB AND GUTTER

REMOVE 32' OF CURB AND GUTTER

PROPOSED TERMINAL PARKING LOT

EXISTING SECTION OF AOA FENCE TBR

EXISTING SECTION OF AOA FENCE TBR

O LIGHT

OHE OHE OHE OHE OHE OHE OHE OHE OHE

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	17932172
CAD DWG FILE:	EXISTING CONDITIONS
DESIGNED BY:	WLC
DRAWN BY:	WLC
CHECKED BY:	PHN
APPROVED BY:	BB
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SHEET TITLE

EXISTING CONDITIONS AND DEMOLITION SHEET

C101

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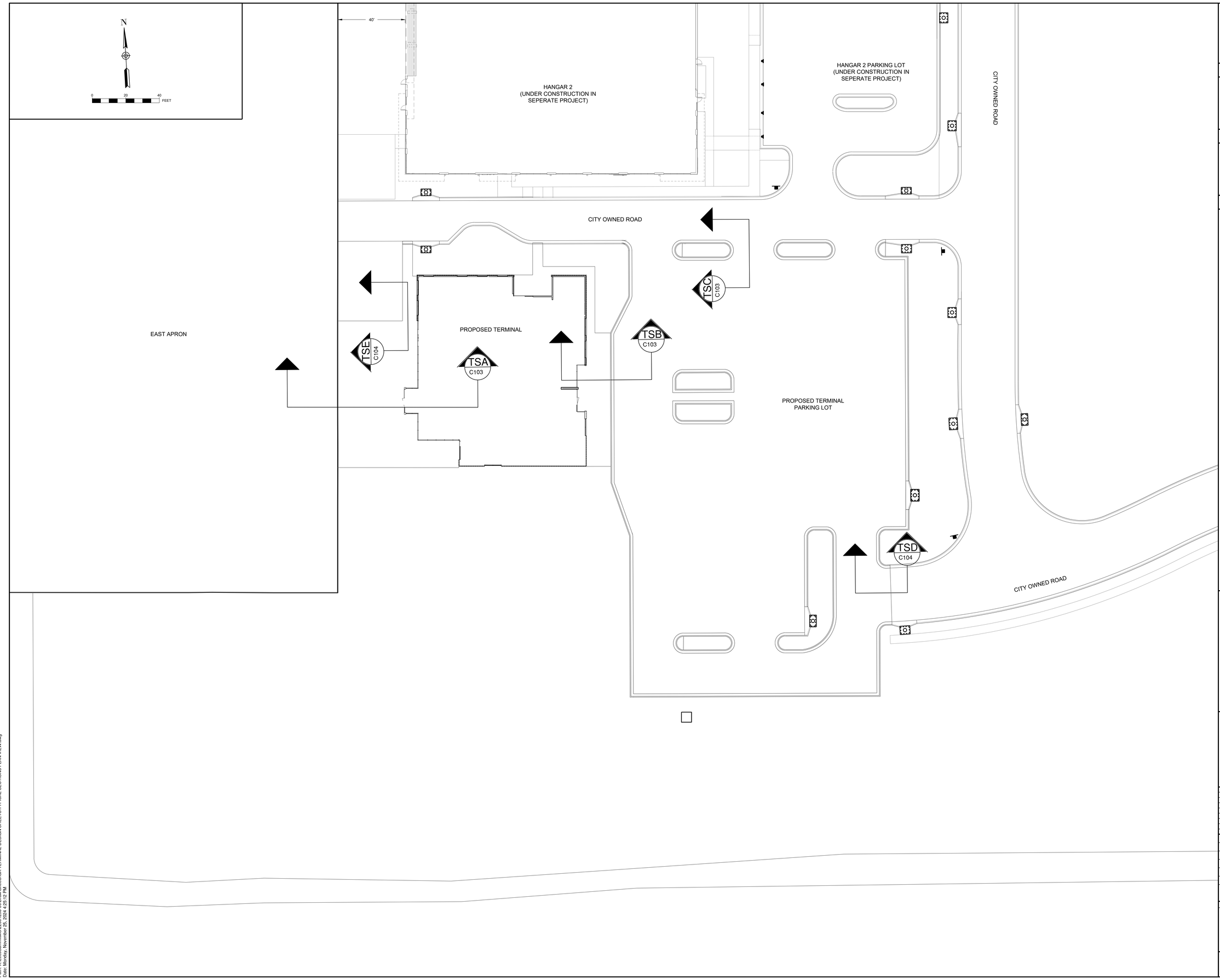

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: TYPICAL SECTIONS PLAN VIEW
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

TYPICAL SECTIONS PLAN VIEW

C102

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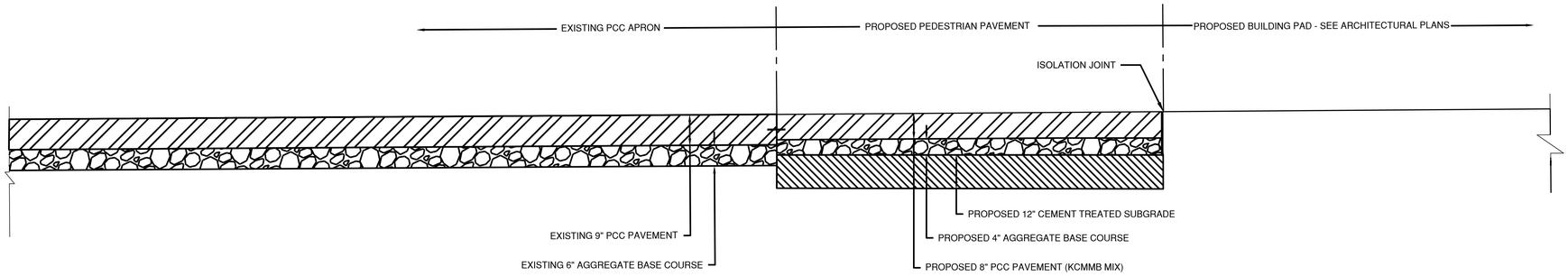
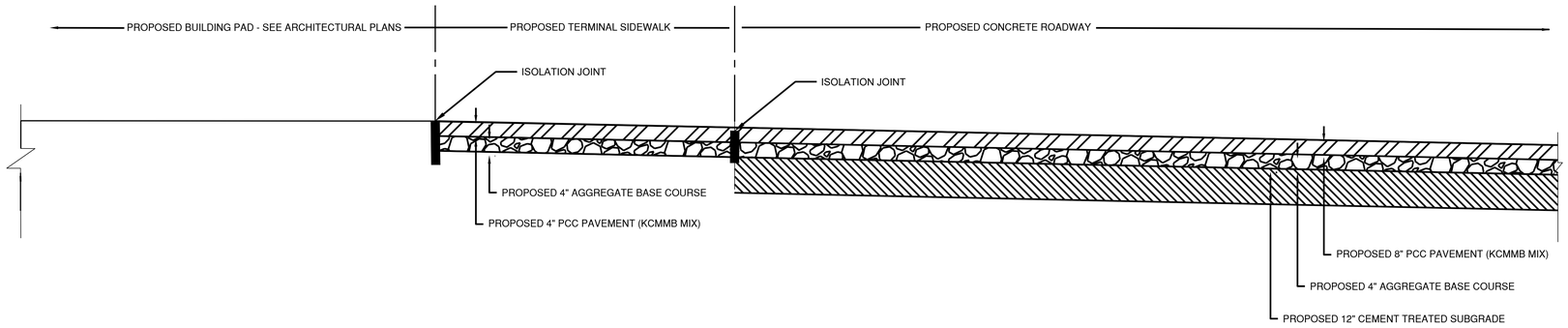


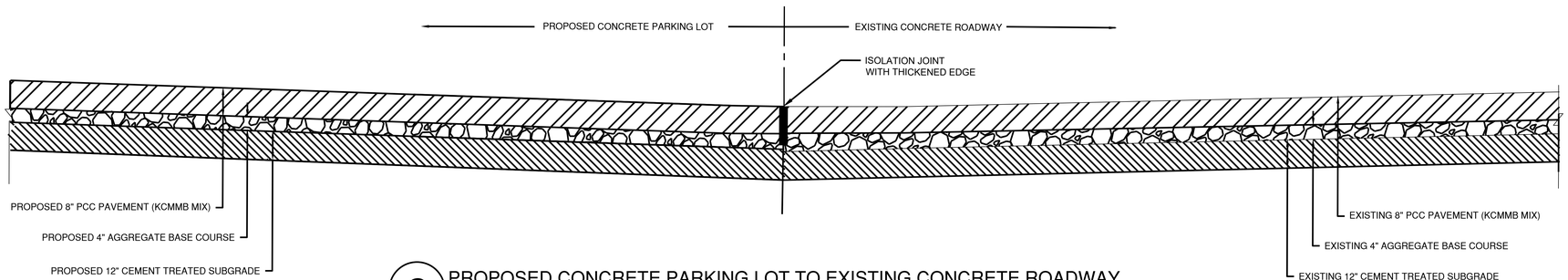
A EXISTING PCC APRON TO PROPOSED PEDESTRIAN PAVEMENT TO PROPOSED BUILDING PAD

N.T.S.



B PROPOSED GA TERMINAL BUILDING PAD TO PROPOSED SIDEWALK TO PROPOSED PARKING LOT

N.T.S.



C PROPOSED CONCRETE PARKING LOT TO EXISTING CONCRETE ROADWAY

N.T.S.

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: TYPICAL SECTIONS
DESIGNED BY: WLC
DRAWN BY: WLC
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SHEET TITLE

TYPICAL SECTIONS 1 OF 2

C103

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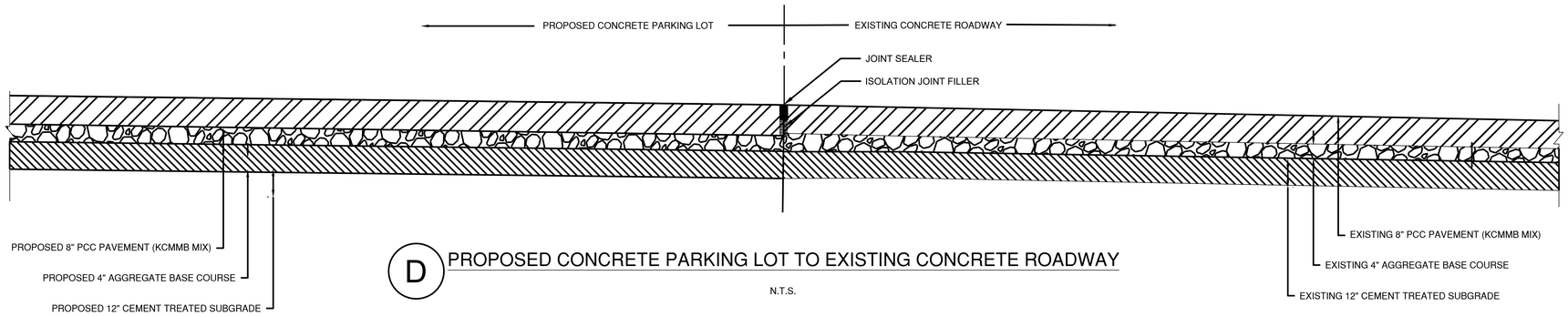
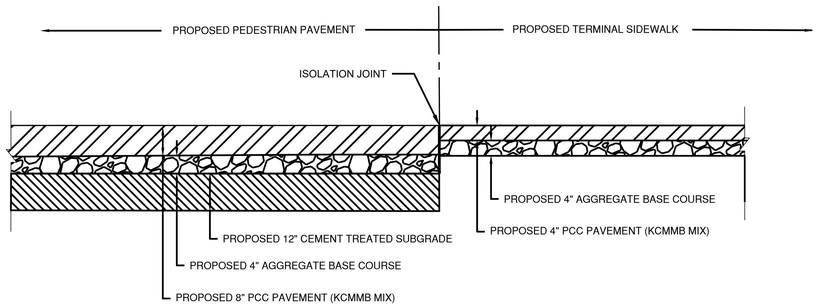


D PROPOSED CONCRETE PARKING LOT TO EXISTING CONCRETE ROADWAY

N.T.S.



E PROPOSED PEDESTRIAN PAVEMENT TO PROPOSED SIDEWALK

N.T.S.

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WELLNER ARCHITECTS + engineers
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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: TYPICAL SECTIONS
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

TYPICAL SECTIONS 2 OF 2

C104

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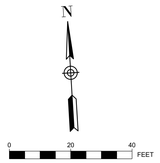
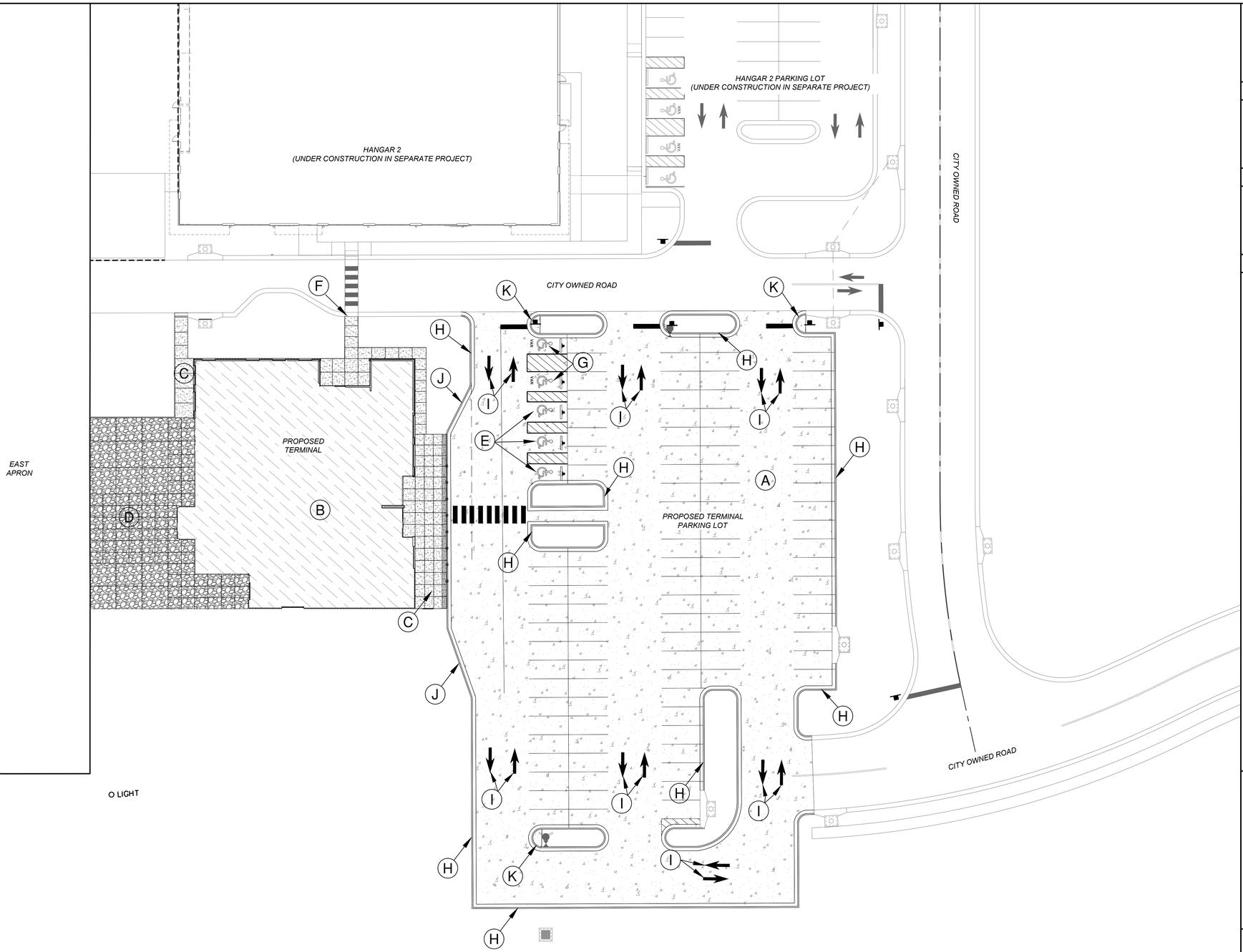


SITE DATA TABLE		
PARKING SPACES SUMMARY	REQUIRED	STANDARD: 30 ADA: 2
	PROVIDED	STANDARD: 103 ADA: 5
	TOTAL: 108 SPACES	
TOTAL PROJECT AREA SIZE	127,152 SF	
	2.92 ACRES	
IMPERVIOUS AREA	59,504 SF	
BUILDING AREA SUMMARY	TOTAL FOOTPRINT	10,614 SF
	1ST FLOOR	9,865 SF
	2ND FLOOR	749 SF

PARKING SUMMARY	
STANDARD SPACES	103 SPACES
ADA SPACES	5 SPACES
TOTAL SPACES	108 SPACES

PLAN KEYNOTES

- (A) PROPOSED VEHICLE CONCRETE PAVEMENT -SEE PAVING PLAN
- (B) PROPOSED BUILDING
- (C) PCC SIDEWALK -SEE PAVING PLAN
- (D) PCC PEDESTRIAN PAVEMENT -SEE PAVING PLAN
- (E) ADA STALL AND BOLLARD MOUNTED SIGNAGE - SEE MARKING AND SIGNAGE DETAIL
- (F) ADA SIDEWALK RAMP AND FLUSH CURB WITH 2'x6' ADA TRUNCATED DOME
- (G) ADA VAN STALL AND BOLLARD MOUNTED SIGNAGE - SEE MARKING AND SIGNAGE DETAIL
- (H) CONCRETE CURB AND GUTTER - SEE TYPICAL SECTIONS
- (I) PAINTED TRAFFIC FLOW ARROW
- (J) TRANSITIONAL CURB
- (K) ROLLING CURB



O LIGHT

CITY OWNED ROAD

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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: SITE PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

SITE PLAN

C105

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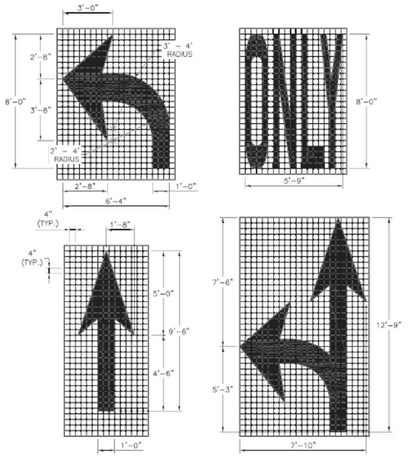
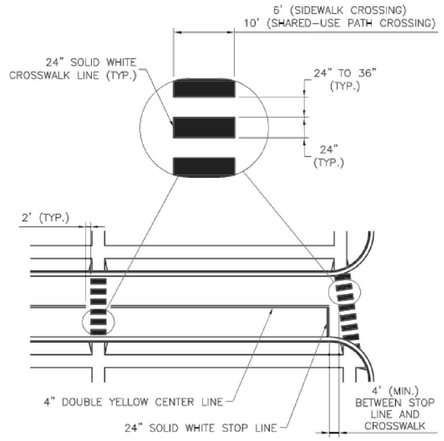
Date: Monday, November 25, 2024 4:25:40 PM



ARROW AND SYMBOL DETAILS

NOTES:

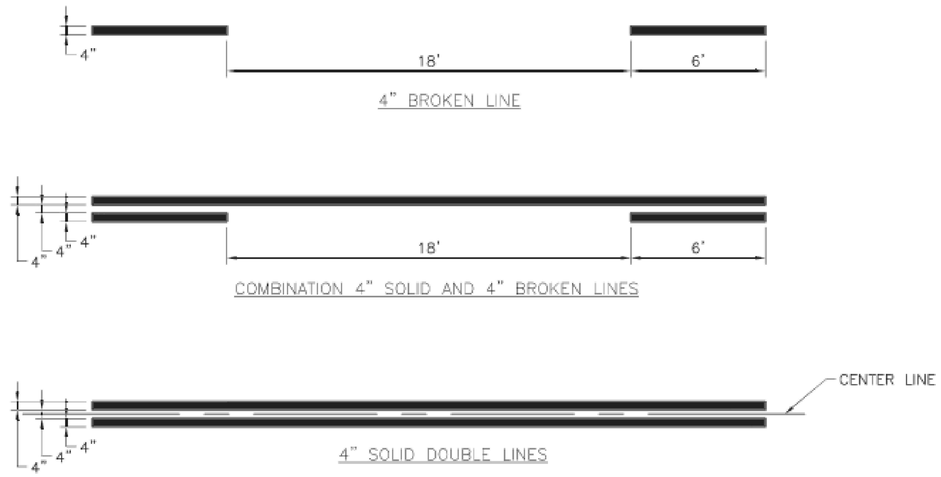
1. ALL ARROW AND SYMBOL MARKINGS SHALL BE WHITE, AND SHALL BE CENTERED IN THEIR RESPECTIVE TRAFFIC LANES.
2. RIGHT-TURN AND COMBINATION RIGHT-TURN/STRAIGHT ARROWS ARE REVERSE OF ARROWS SHOWN.



TYPICAL MID-BLOCK OR SCHOOL CROSS WALK

PAVEMENT MARKING GENERAL NOTES:

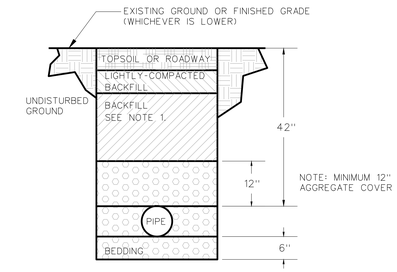
1. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL WORDS AND SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
3. PAVEMENT MARKINGS, EITHER TEMPORARY OR PERMANENT ARE REQUIRED AT ALL TIMES IF THE ROADWAY IS OPEN TO TRAFFIC.
4. ALL PAVEMENT MARKINGS THAT CONFLICT WITH THE DESIRED MARKINGS SHALL BE COMPLETELY REMOVED. REMOVALS SHALL NOT LEAVE THE ROAD SURFACE SCARRED WITH AN IMAGE THAT MISLEADS TRAFFIC. ANY EXCESS DAMAGE OR SCARRING OF PAVEMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. THE PROPOSED PERMANENT MARKINGS SHALL BE LAID OUT BY THE CONTRACTOR IN ADVANCE OF THE MARKING INSTALLATION. MARKINGS SHALL NOT BE APPLIED UNTIL THE LAYOUT HAS BEEN APPROVED BY THE CITY TRAFFIC ENGINEER.
6. CENTER LINES SHALL BE MARKED ON ALL UNDIVIDED ARTERIAL STREETS, AND ANY OTHER UNDIVIDED STREET WITH MORE THAN TWO LANES AND/OR A SPEED LIMIT OF 30 MPH OR MORE.
7. EDGE LINES SHALL BE MARKED ON ALL NON-CURBED STREETS.



TYPICAL LINE DETAILS

NOTES:

1. ALL EDGE LINE, CENTER LINE, AND LANE LINE PAVEMENT MARKINGS SHALL BE 4" WIDE UNLESS OTHERWISE NOTED.
2. EDGE LINES SHALL BE CONTINUOUS SOLID WHITE OR YELLOW LINES. RIGHT SIDE EDGE LINES SHALL BE SOLID WHITE. MEDIAN OR LEFT SIDE EDGE LINES ON DIVIDED ROADWAYS ARE TO BE SOLID YELLOW. EDGE LINES AND CENTER LINES SHALL BE CONTINUOUS ACROSS DRIVEWAYS.



NOTES:

1. BACKFILL OF ALL PIPES UNDER ROADWAYS, CURB AND GUTTER AND ALL OTHER PAVED AREAS WITHIN THE RIGHT OF WAY SHALL CONSIST OF FLOWABLE BACKFILL AS SPECIFIED IN SECTION 2602.2.H MIX DESIGN TYPE: A. THE FLOWABLE FILL SHALL EXTEND TO 2 FEET FROM BACK OF CURB TO 2 FEET BACK OF CURB, UP TO 18 INCHES BELOW FINISHED GRADE. FOR EXISTING ROADWAYS FLOWABLE SHALL BE EXTEND UP TO THE BASE OF PAVEMENT.

TRENCHING AND BACKFILL DETAIL D8
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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: SITE DETAILS - 2
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

SITE DETAILS 1 OF 2

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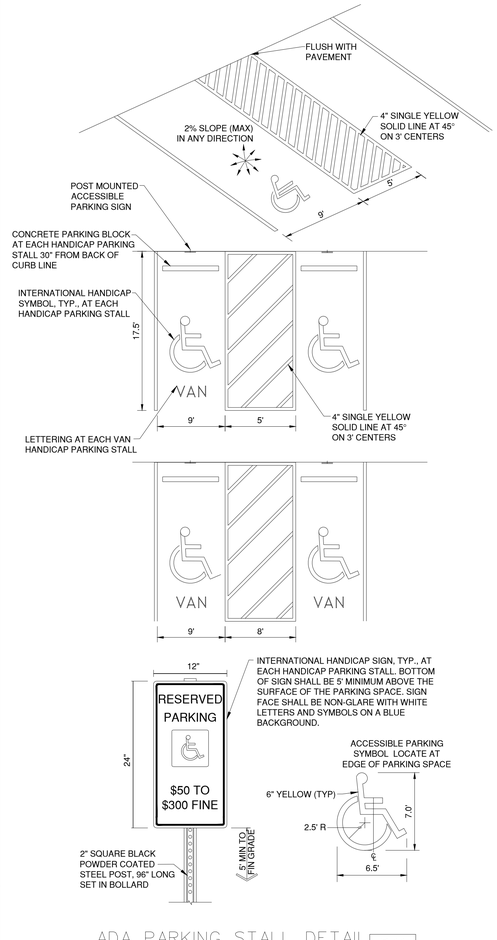

ADA PARKING STALL DETAIL D11
N.T.S.

NOTES:

1. ½" EXPANSION JOINTS WITH 2' DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED TO MATCH TRANSVERSE JOINTS OF THE ADJACENT PAVEMENT. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWELS WITH BAR SUPPORTS
4. CONCRETE SHALL CONFORM TO KCMMB 4K UNLESS OTHERWISE SPECIFIED IN THE PLANS AND PROJECT MANUAL. SEE SECTION 02290 - CURBING.
5. AT CENTER MARKS - USE ⅝" Ø X 2' SMOOTH DOWELS AT LOCATIONS SHOWN ON EACH TYPICAL SECTION.
6. DEPTH OF CURB SHALL BE MINIMUM OF 8" THRU THE HANDICAP ACCESS RAMP.
7. JOINT NOT NEEDED IF CURB & GUTTER IS MONOLITHICALLY POURED

* DRAWING COURTESY OF KANSAS CITY, MO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION: STANDARD DRAWING NUMBER C

STRAIGHT BACK CURB AND GUTTER (TYPE CG-1) D12
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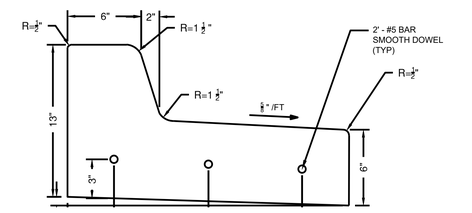

ADA RAMP TYPE A&B DETAIL D12
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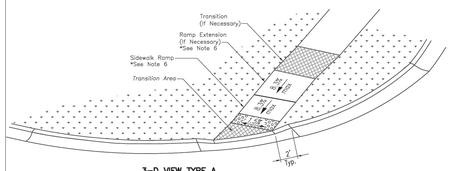
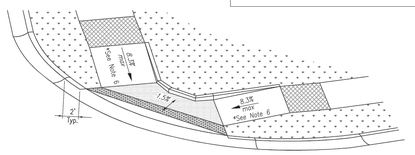
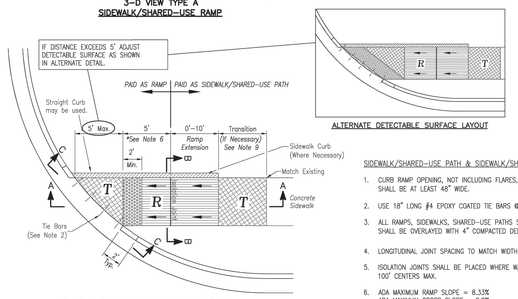


3-D VIEW TYPE A
SIDEWALK/SHARED-USE RAMP

LEGEND
R SIDEWALK RAMP
TS TURNING SPACE
DETECTABLE WARNING SURFACE
T TRANSITION



3-D VIEW TYPE B
SIDEWALK/SHARED-USE RAMP

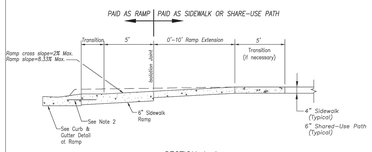


TYPE A SIDEWALK/SHARED-USE RAMP
Not to Scale

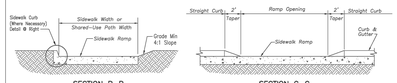
ALTERNATE DETECTABLE SURFACE LAYOUT

SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
   ADA MAXIMUM CROSS SLOPE = 2.0%
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

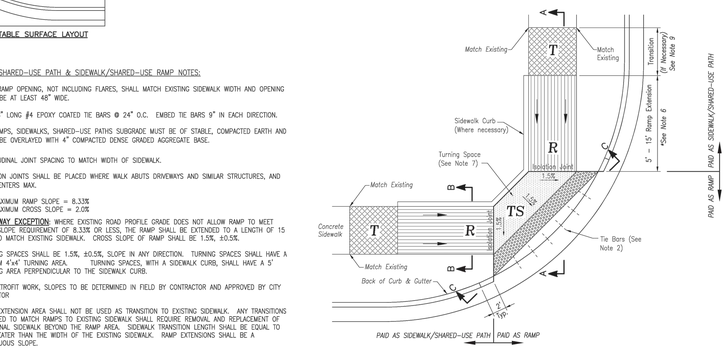


SECTION A-A



SECTION B-B
SECTION C-C

TYPE A & B SIDEWALK RAMP
Not to Scale



TYPE B SIDEWALK/SHARED-USE RAMP
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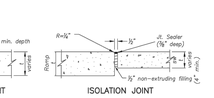
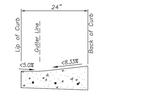


SIDEWALK CURB DETAIL
Not to Scale

CONTRACTION JOINT
ISOLATION JOINT
JOINT DETAILS
Not to Scale



CURB & GUTTER DETAIL AT RAMP
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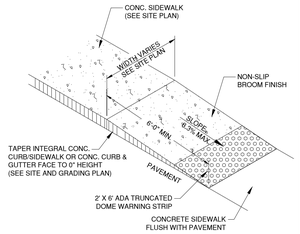

ADA SIDEWALK RAMP DETAIL D13
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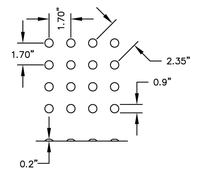
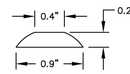


DOME SPACING



DOME SECTION

TRUNCATED DOME DETAIL D14
N.T.S.

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: SITE DETAILS - 2
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
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SHEET TITLE

SITE DETAILS 2 OF 2

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PLAN KEYNOTES

(A) PROPOSED 8" CONCRETE PAVEMENT -SEE TYPICAL SECTIONS

(B) PCC 4" SIDEWALK -SEE SHEET TYPICAL SECTIONS

(C) PROPOSED 8" CONCRETE SIDEWALK -SEE TYPICAL SECTIONS

(D) ADA SIDEWALK RAMP AND FLUSH CURB WITH 2' ADA TRUNCATED DOME WARNING STRIP (TYP) - SEE SITE DETAILS

(E) TYPE CG-1 CONCRETE CURB AND GUTTER - SEE TYPICAL SECTIONS

(F) 8" CONCRETE BOLLARD

(G) TRUNCATED DOME

PAVING PLAN GENERAL NOTES:

1. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY / STATE / FEDERAL / COUNTY REGULATIONS, CODES AND O.S.H.A. REGULATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS DRAWING WITH OTHER DRAWINGS THAT CONTAIN DIMENSIONS TO ENSURE THAT THE PLAN DIMENSIONS ARE CONSISTENT WITH THE COORDINATES PRESENTED ON THE PLAN. FOLLOWING STAKE-OUT OF ANY FACILITY BY COORDINATES, THE CONTRACTOR SHALL CHECK THAT PLAN DIMENSIONS ARE ACHIEVED PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL PROVIDE FULL-DEPTH SAWCUT AT ALL REMOVAL LIMITS AS REQUIRED TO PROVIDE A CLEAN, NEAT EDGE TO EXISTING PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. THAT WILL REMAIN.
5. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS DOORS AND ENCLOSURES.
6. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH WORK BY OTHERS INCLUDING UTILITY COMPANIES.

EAST APRON

O LIGHT

HANGAR 2
(UNDER CONSTRUCTION IN SEPERATE PROJECT)

HANGAR 2 PARKING LOT
(UNDER CONSTRUCTION IN SEPERATE PROJECT)

VAN

RELOCATED LIGHT POLE

LP

SIDEWALK RAMP

ROLLING CURB

R6'

24'

36.5'

17.5'

162.5'

33.18'

22.27'

10.89'

TRANSITIONAL CURB

BEGINNING OF FLUSH TRANSITION

PROPOSED TERMINAL

8 CONCRETE BOLLARDS 7.5' O.C.

13.7'

5'

2'

FLUSH CURB

PROPOSED TERMINAL PARKING LOT

159'

END OF FLUSH TRANSITION

12.5'

22.6'

31.1'

94.71'

18.84'

63'

ROLLING CURB

12'

R22.7'

24

145'

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: PAVING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

PAVING PLAN

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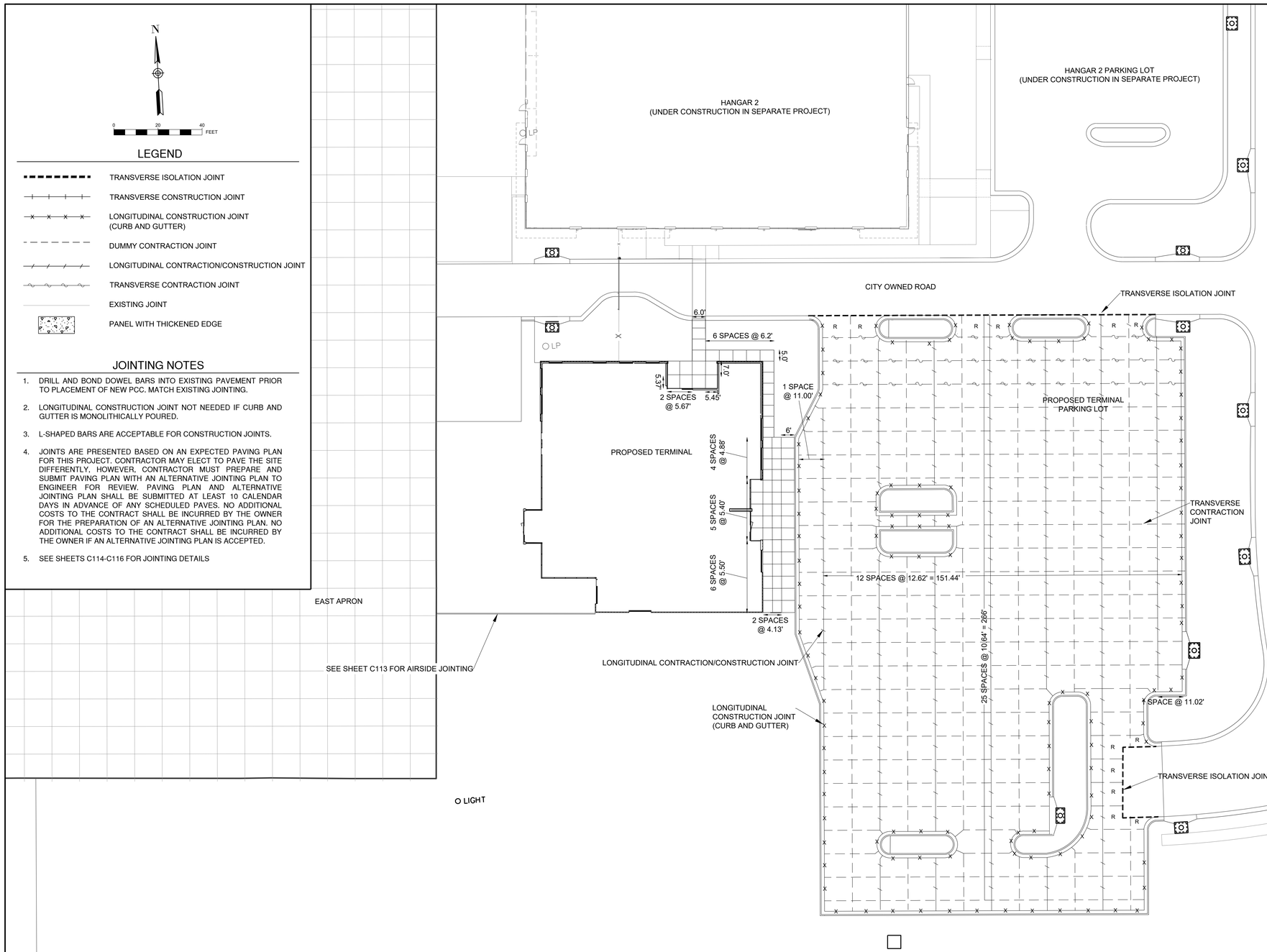

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: JOINTING PLAN NEW
DESIGNED BY: WLC
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SHEET TITLE

JOINTING PLAN

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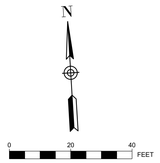
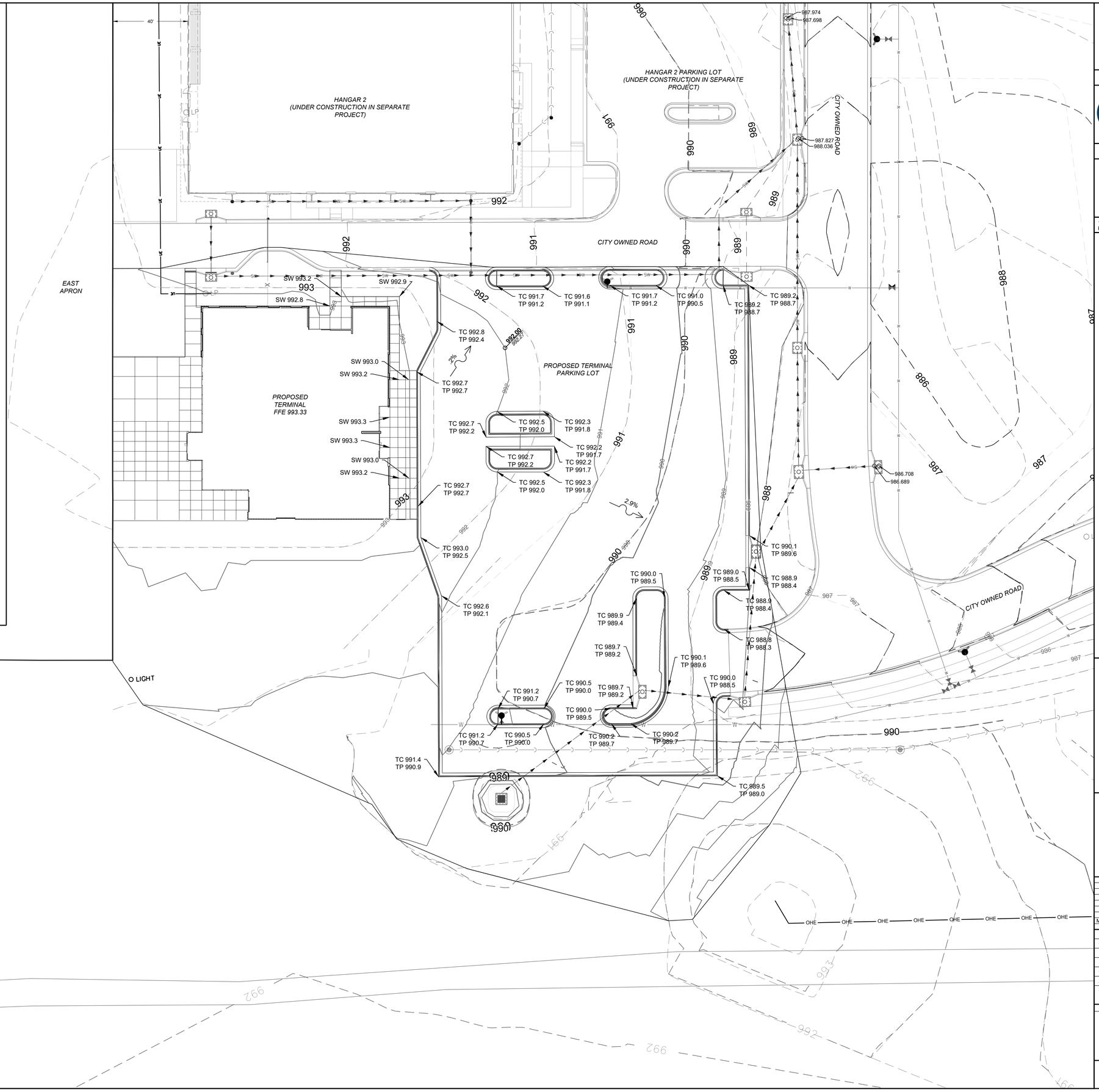


PLAN LEGEND

- 993 — EXISTING CONTOUR
- 993 — PROPOSED CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING STORM STRUCTURE

GENERAL NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
2. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
3. CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNER'S PROPERTY AND PROPERLY DISPOSED OF.
4. ALL DISTURBED TURF AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL AND SHALL BE SEEDED / FERTILIZED IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS.
5. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION IS WATERTIGHT.
6. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.



UTILITY DISCLAIMER

INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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LEE'S SUMMIT, MISSOURI

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NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	17932172
CAD DWG FILE:	GRADING PLAN
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GRADING PLAN

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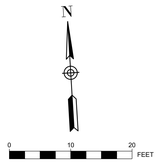

PLAN LEGEND

993	EXISTING CONTOUR
993	PROPOSED CONTOUR
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED STORM STRUCTURE

GENERAL NOTES:

1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
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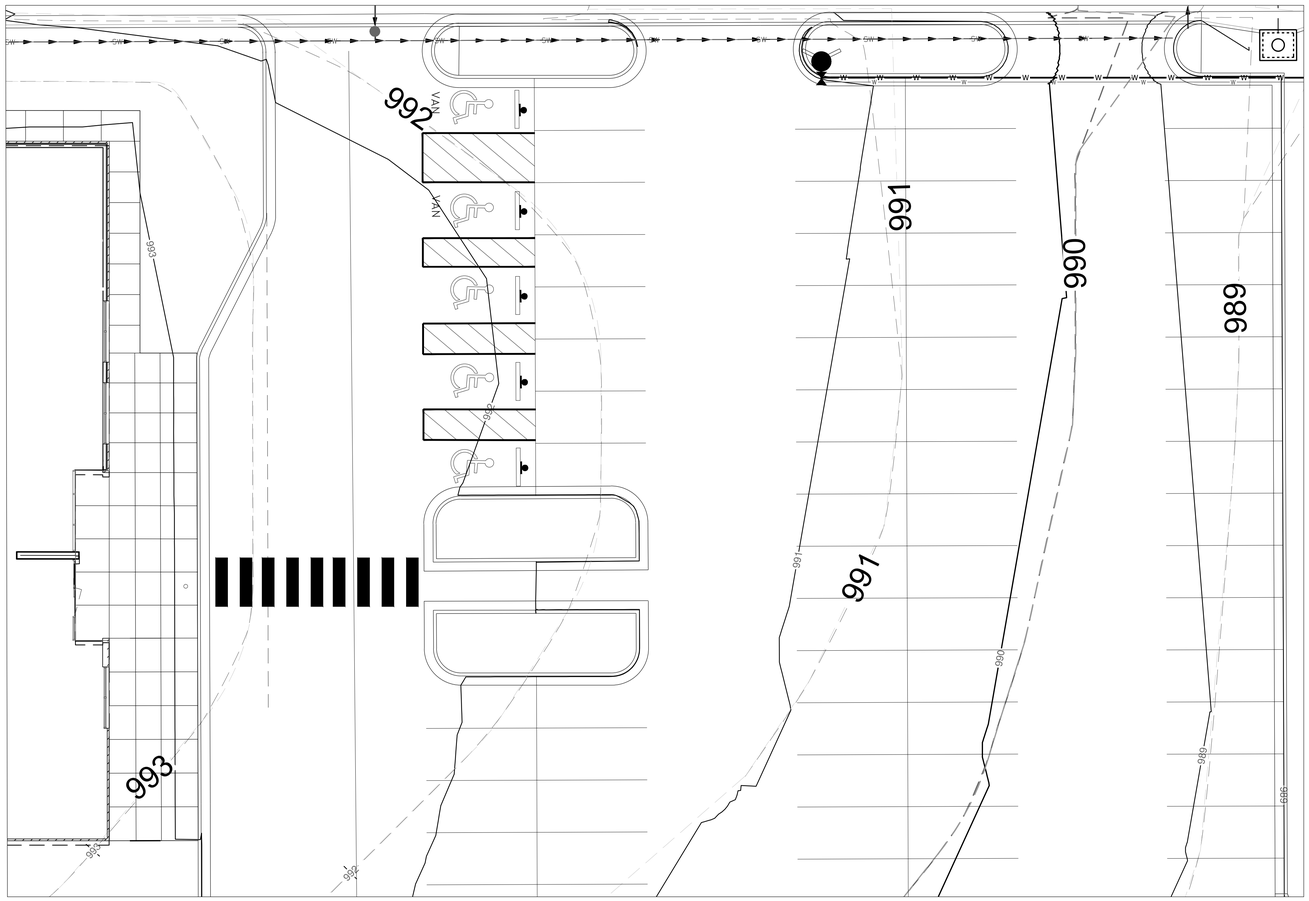
7. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
8. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.



GRADING DETAILS - AREA #1

SCALE 1" : 10'

UTILITY DISCLAIMER

INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

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PROJECT NO: 17932172
CAD DWG FILE: GRADING PLAN DETAIL
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

GRADING DETAILS

C111

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0 10 20 FEET

LEGEND

740.35 / 741.20 — PROPOSED ELEV. / EXISTING ELEV

JOINTING NOTES

1. PAVEMENT ELEVATIONS ARE SHOWN ON EACH LONGITUDINAL JOINT UNLESS SPACE WAS UNAVAILABLE.
2. WHERE TYING INTO EXISTING PAVEMENTS, MATCH EXISTING PAVEMENT ELEVATION AS SHOWN.
3. CONTRACTOR SHALL VERIFY EXISTING GRADES PRIOR TO START OF WORK. IF DEVIATIONS ARE DISCOVERED CONTRACTOR SHALL NOTIFY ENGINEER

PROPOSED TERMINAL DRIVE AND PARKING LOT

PROPOSED TERMINAL PARKING

OPOSED
RMINAL

SEE SHEET C117 FOR AIRSIDE STAKING

O LIGHT

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MARK	DATE	DESCRIPTION

PROJECT NO:	17932172
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SHEET TITLE

PARKING LOT STAKING PLAN

C112

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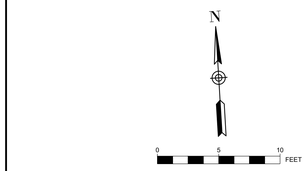
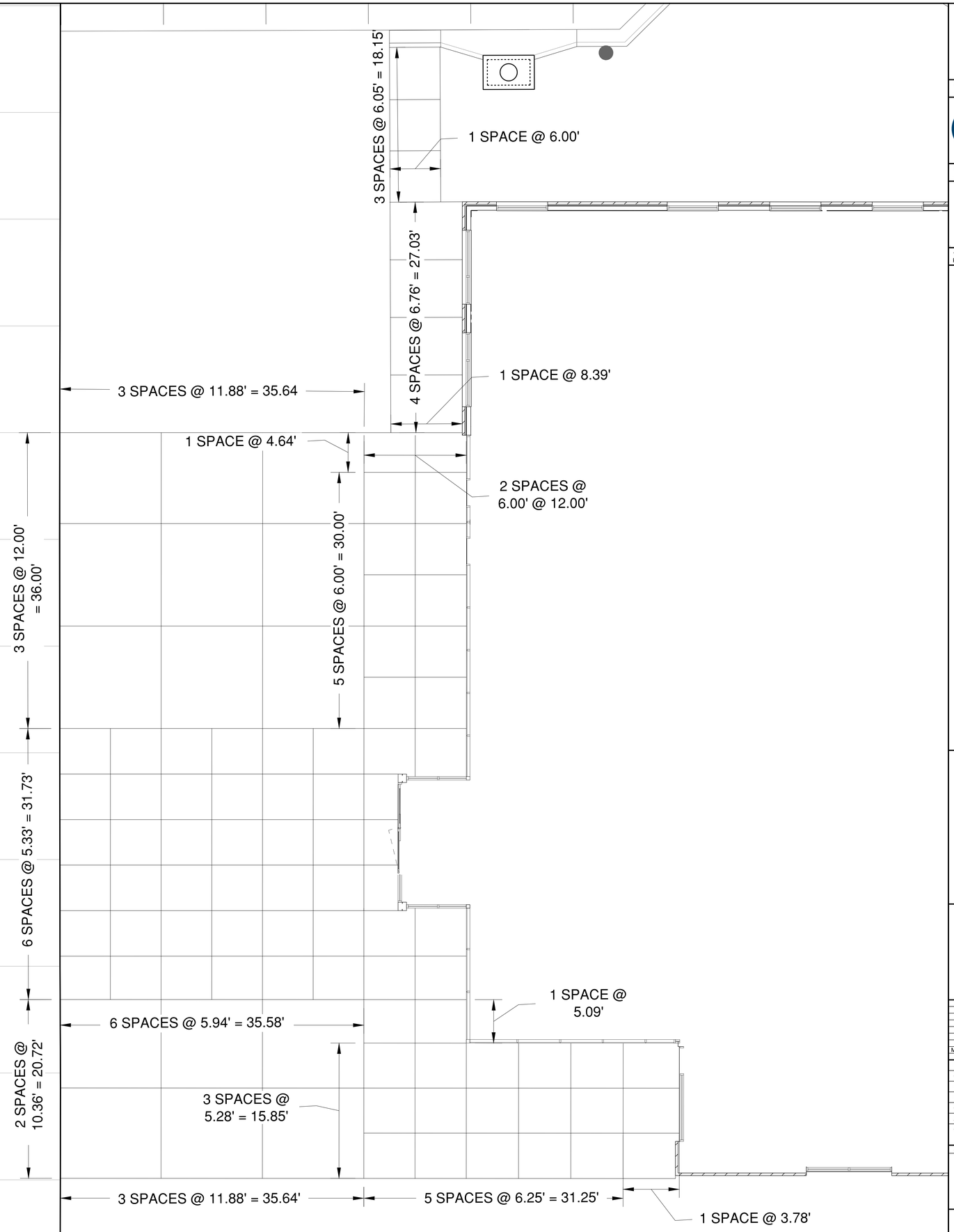


LEGEND

- ISOLATION JOINT - TYPE A
- DOWELED CONSTRUCTION JOINT - TYPE E
- DOWELED CONTRACTION JOINT - TYPE C
- EXISTING JOINT
- PANEL WITH THICKENED EDGE
- R — ODD-SHAPED PANEL WITH MESH REINFORCEMENT

JOINTING NOTES

1. DRILL AND BOND DOWEL BARS INTO EXISTING PAVEMENT PRIOR TO PLACEMENT OF NEW PCC. MATCH EXISTING JOINTING.
2. SEE SHEET C114 - C116 FOR JOINTING DETAILS



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CAD DWG FILE: JOINTING PLAN
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SHEET TITLE

AIRFIELD PAVEMENT JOINTING PLAN

C113

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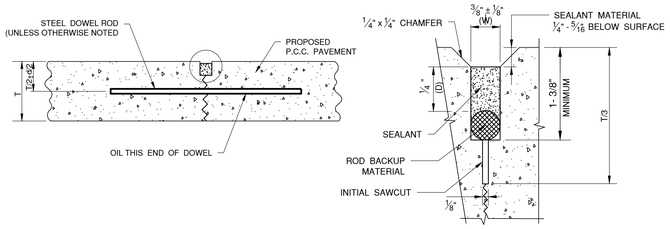
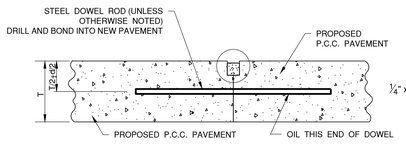
CONTRACTION JOINTS



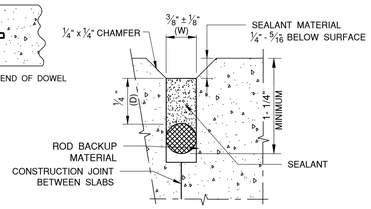
TYPE C DOWELED

SYMBOL

CONSTRUCTION JOINTS



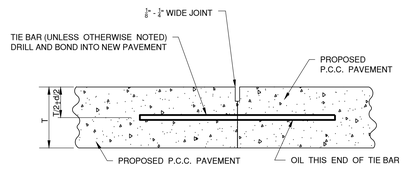
NOTE:
WHEN ABUTTING TO EXISTING CONCRETE,
INSERT DOWEL INTO EXISTING SLAB AND EPOXY.



TYPE E DOWELED

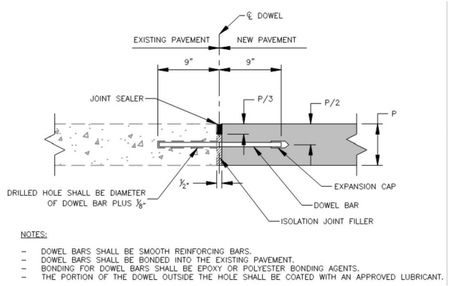
SYMBOL

CONSTRUCTION JOINTS



TYPE B - HINGED (TIED)

SYMBOL

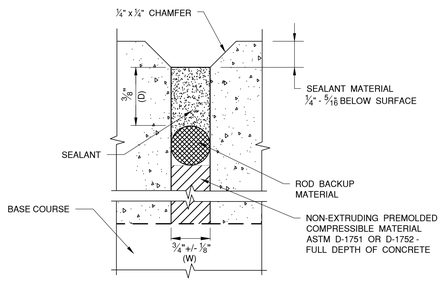


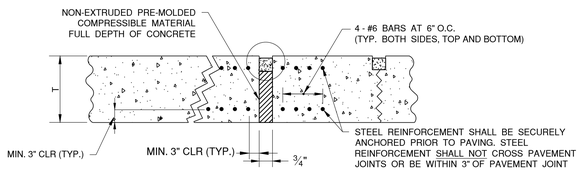
NOTES:
- DOWEL BARS SHALL BE SMOOTH REINFORCING BARS.
- DOWEL BARS SHALL BE BONDED INTO THE EXISTING PAVEMENT.
- BONDING FOR DOWEL BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS.
- THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL BE COATED WITH AN APPROVED LUBRICANT.

TRANSVERSE ISOLATION JOINT

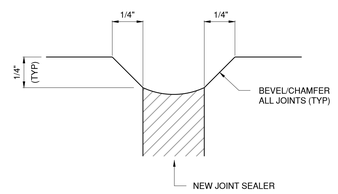
SYMBOL

EXPANSION JOINTS



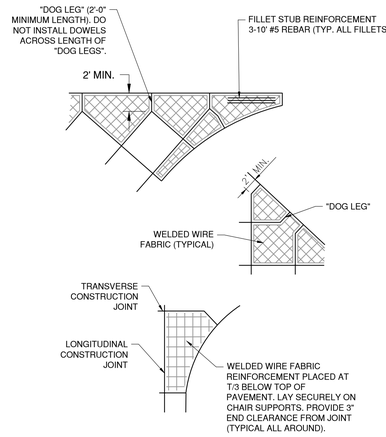


TYPE A ISOLATION



CHAMFER/BEVEL JOINT DETAIL

NOT TO SCALE



TYPICAL FILLET AND
REINFORCEMENT DETAILS

NOT TO SCALE

DIMENSION TABLES

TABLE 1

PAVEMENT THICKNESS T – INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAW CUT T, INCHES T=(T/3) ±1/4"
4"	T=1.33" ±1/4"
8"	T=2.67" ±1/4"

TABLE 2

PAVEMENT THICKNESS T – INCHES	DOWEL BAR DETAILS			TIE BAR DETAILS		
	DIA. (d)	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
6"–7"	3/4"	18"	12"	#5	30"	30"
7.5"–12"	1"	18"	12"	#5	30"	30"
12.5"–16"	1 1/4"	20"	15"	#5	30"	30"
16.5"–20"	1 1/2"	20"	18"	#5	30"	30"
20.5"–24"	2"	24"	18"	#5	30"	30"

NOTES:

1. ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR. A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.
2. THE INITIAL SAWCUT FOR ALL LONGITUDINAL AND TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT. SAWING OF LONGITUDINAL CONTRACTION JOINTS ADJACENT TO THICKENED EDGES SHALL BE GIVEN PRIORITY OVER OTHER LONGITUDINAL JOINT SAWING.
3. ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL ENSURE THAT THEY WILL REMAIN PARALLEL TO THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALTERNATE METHODS OF PLACEMENT OF DOWEL BARS MAY BE PROPOSED BY THE CONTRACTOR, TO BE APPROVED BY THE ENGINEER. TRANSVERSE DOWEL BAR IMPLANTING WILL NOT BE ALLOWED.
4. ALL TIE BARS AND MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR PLACED BY OTHER APPROVED METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT.
5. TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A706, EXCEPT THAT RAIL STEEL BARS, GRADE 50 OR 60 SHALL NOT BE USED FOR THE BARS THAT ARE TO BE BENT OR RE-STRAIGHTEND DURING CONSTRUCTION. TIE BARS DESIGNATED AS GRADE 40 IN ASTM A706 CAN BE USED FOR CONSTRUCTION REQUIRING BENT BARS.
6. THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSION OF THE SECOND SAWCUT WILL NOT BE ALLOWED.
7. JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING OPERATIONS BEGIN.
8. SHOULD THE POURING OPERATIONS REQUIRE THE INSERTION OF AN INTERMEDIATE HEADER, A DOWEL BASKET ASSEMBLY OR OTHER APPROVED METHOD OF DOWEL BAR PLACEMENT SHALL BE REQUIRED.
9. EPOXY-COATED DOWEL BASKET ASSEMBLIES MAY BE PROPOSED BY THE CONTRACTOR TO BE APPROVED BY THE DESIGN PROFESSIONAL. DOWELS IN THE APPROVED BASKET ASSEMBLIES SHALL CONFORM TO TABLE 2.
10. CONTRACTOR SHALL CONSTRUCT A 1/4" CHAMFER ON ALL CONCRETE JOINTS PER THE DETAIL ON THIS SHEET.

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GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
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Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

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SHEET TITLE

PAVEMENT JOINTING DETAILS 1 OF 3

C114

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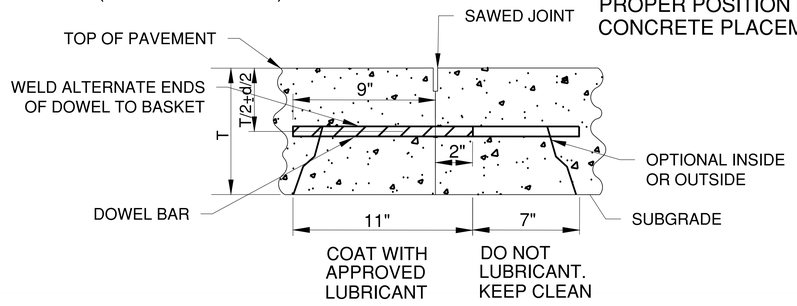
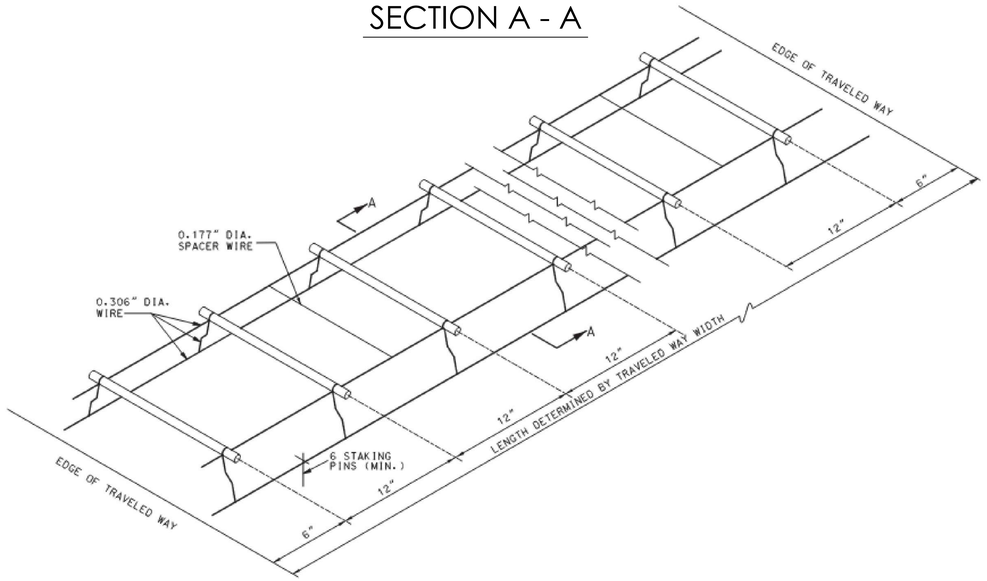
FOR PAVEMENT HAVING THICKNESS IN 1/2" INCREMENT, DOWEL BASKET SHALL BE (THICKNESS - 1/2")/2

DIFFERENT LEG SHAPES MAY BE USED PROVIDED THE DOWEL BARS ARE MAINTAINED AT THE PROPER POSITION DURING CONCRETE PLACEMENT



SECTION A - A



DOWEL BAR ASSEMBLY

NOTES:

1. THE DOWEL SUPPORTING UNITS SHALL BE FACTORY ASSEMBLED AND CAPABLE OF HOLDING THE DOWELS IN THEIR REQUIRED POSITIONS. IN THE COMPLETED JOINT INSTALLATION, DOWELS SHALL BE POSITIONED WITHIN $\frac{1}{2}$" OF THE VERTICAL AND HORIZONTAL PLANE AND IN THE LONGITUDINAL DIRECTION. THE SKEW TOLERANCE SHALL BE $\frac{1}{4}$".
2. THE FREE END OF EACH EPOXY COATED DOWEL SHALL BE MARKED WITH A SPOT OF PAINT AT LEAST ONE INCH IN DIAMETER AND CONTRASTING IN COLOR WITH THE EPOXY COATING.
3. WIRE SIZES SHOWN ARE MINIMUM REQUIRED.
4. WIRES, BARS, OR CLIPS SHALL BE USED AS NECESSARY TO STRENGTHEN ASSEMBLIES.
5. THE DIAMETER OF THE SPACER WIRE SHALL NOT EXCEED 0.200".
6. SPACER WIRE MAY BE CUT OR LEFT INTACT.
7. STAKING PINS SHALL BE FABRICATED FROM 0.306" DIAMETER WIRE SHALL BE MINIMUM WITH A SUITABLE HOOK. STAKING PINS SHALL HAVE A MINIMUM LENGTH OF 12" FOR DOWEL ASSEMBLIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. MINOR VARIATIONS IN THE CONFIGURATION OF THE SUPPORT UNITS WILL BE ALLOWED.

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CITY PROJECT NO. - 17932172

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PAVEMENT JOINTING DETAILS 2 OF 3

C115

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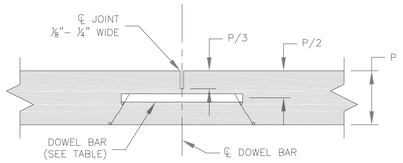
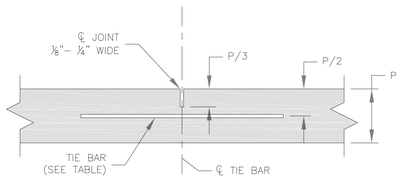


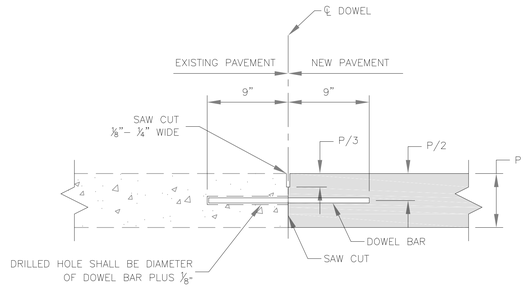
NOTE:

TRANSVERSE CONTRACTION JOINTS FOR CONCRETE PAVEMENT OR BASE WIDENING SHALL MATCH EXISTING JOINTS.

1 TRANSVERSE CONTRACTION JOINT



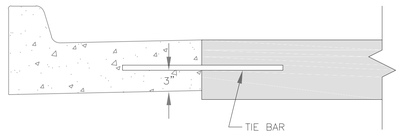
2 LONG. CONTRACTION/CONSTRUCTION JOINT



NOTES:

- DOWEL BARS SHALL BE SMOOTH REINFORCING BARS.
- DOWEL BARS SHALL BE BONDED INTO THE EXISTING PAVEMENT.
- BONDING FOR DOWEL BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS.
- THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL BE COATED WITH AN APPROVED LUBRICANT.

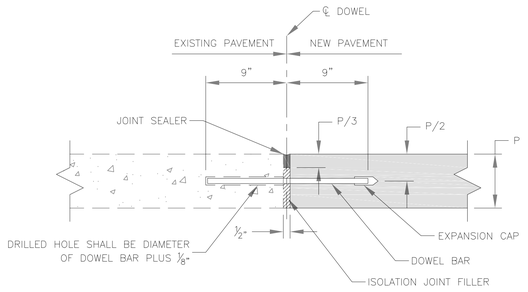
3 TRANSVERSE CONSTRUCTION JOINT



NOTE:

- JOINT NOT NEEDED IF CURB & GUTTER IS MONOLITHICALLY POURED.

5 LONG. CONSTRUCTION JOINT (CURB & GUTTER)



NOTES:

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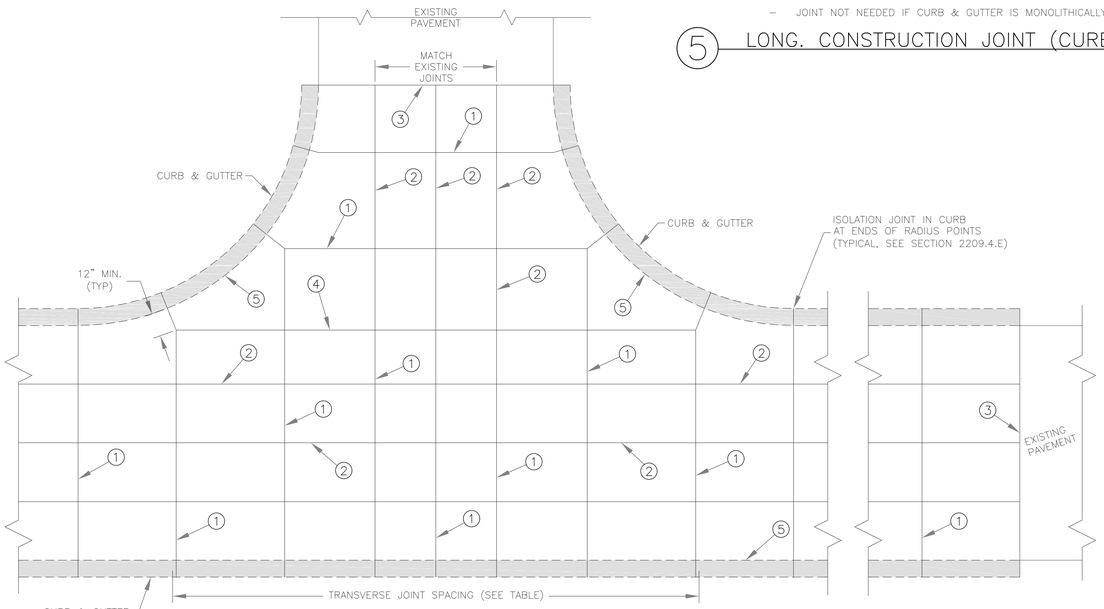
- THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL BE COATED WITH AN APPROVED LUBRICANT.

4 TRANSVERSE ISOLATION JOINT

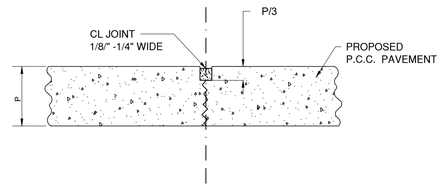


JOINT SPACING/INTERSECTION DETAIL

TABLE						
PCCP THICKNESS (P)	DOWEL SIZE	TIE BAR SIZE	DOWEL SPACING	TIE BAR SPACING	MAX. TRAN. SPACING	MAX. LONG. SPACING
6"	N/A	#5 x 30"	N/A	30" CTRS.	12'	12'
7"	1" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	14'	14'
8"	1 ¼" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	14'
≥9"	1 ½" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	15'

GENERAL NOTES:

- THE FINAL POSITION OF ALL DOWELS AND TIE BARS SHALL BE PERPENDICULAR TO THE PLANE OF THE JOINT AND PARALLEL TO THE SURFACE OF THE PAVEMENT AND PARALLEL TO EACH OTHER.
- ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.
- DOWEL BARS SHALL BE PLACED AT 9 INCHES FROM LONGITUDINAL JOINTS.
- TIE BARS SHALL BE PLACED AT 12 INCHES FROM TRANSVERSE JOINTS.
- PANEL LENGTH TO WIDTH RATIO SHALL NOT EXCEED 1.25 TO 1.
- DOWEL BASKET SHIPPING WIRE SHALL NOT BE CUT.
- CONTRACTOR SHALL SUBMIT PROJECT SPECIFIC JOINTING PLAN AT LEAST TWO WEEKS BEFORE PAVING OPERATIONS.
  IN ACCORDANCE WITH 2208.4.D, ALL JOINTS SHALL BE SEALED, INCLUDING CUPB & GUTTER



DUMMY CONTRACTION JOINT

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GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: TYPICAL PAVEMENT JOINT DETAILS

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Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

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Checked By: GMB
Date: 08/2023
Proj. #:

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PAVEMENT JOINTING DETAILS 3 OF 3

GEN-10

C116

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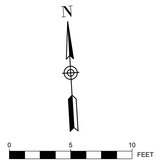
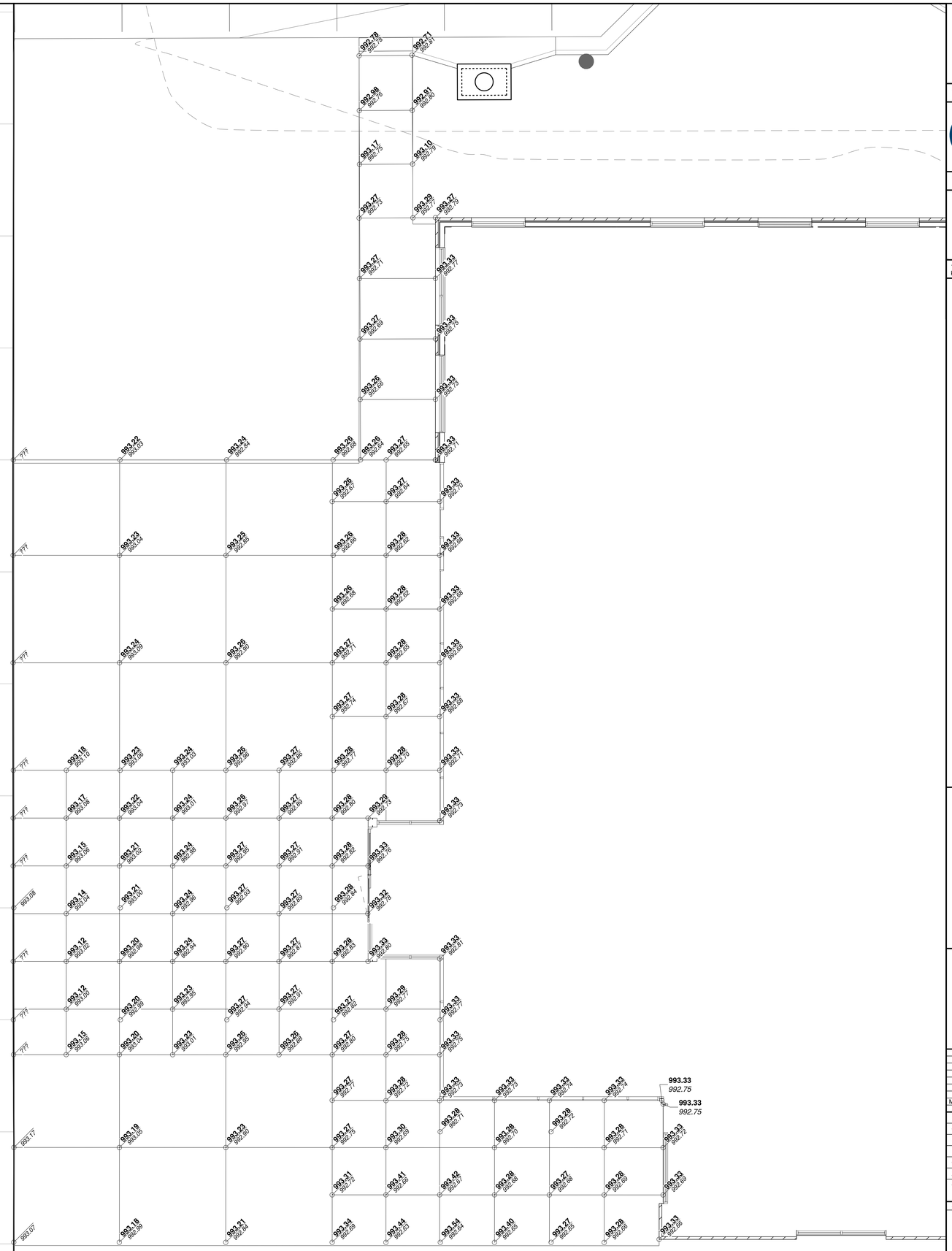


LEGEND

740.35 / 741.20 — PROPOSED ELEV. / EXISTING ELEV

JOINTING NOTES

1. PAVEMENT ELEVATIONS ARE SHOWN ON EACH LONGITUDINAL JOINT UNLESS SPACE WAS UNAVAILABLE.
2. WHERE TYING INTO EXISTING PAVEMENTS, MATCH EXISTING PAVEMENT ELEVATION AS SHOWN.
3. CONTRACTOR SHALL VERIFY EXISTING GRADES PRIOR TO START OF WORK. IF DEVIATIONS ARE DISCOVERED CONTRACTOR SHALL NOTIFY ENGINEER



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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: STAKING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB
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SHEET TITLE

AIRFIELD PAVEMENT STAKING PLAN

C117

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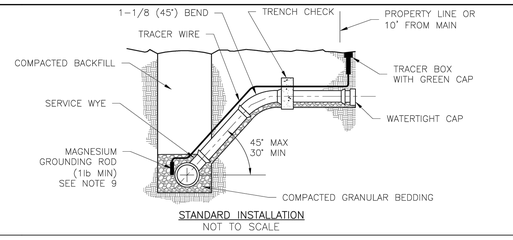
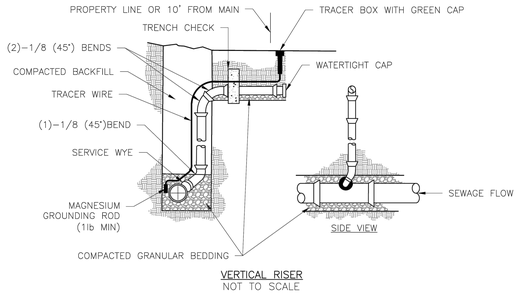


STANDARD INSTALLATION
NOT TO SCALE



VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN, WHICHEVER IS GREATER. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
3. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12", THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
4. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
5. TRACER WIRE SHALL BE INSTALLED PER SPECIFICATION SECTION 3500. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
6. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
7. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
8. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH LOCKING SPLICE CONNECTOR MANUFACTURED WITH A WATERPROOF DIELECTRIC SEALANT.

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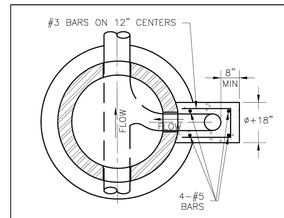
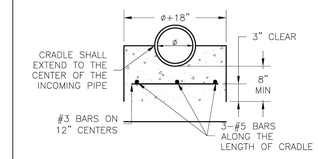
SANITARY SEWER STUB DETAIL

Date: 08/2023
Drawn By: MJF
Checked By: AB

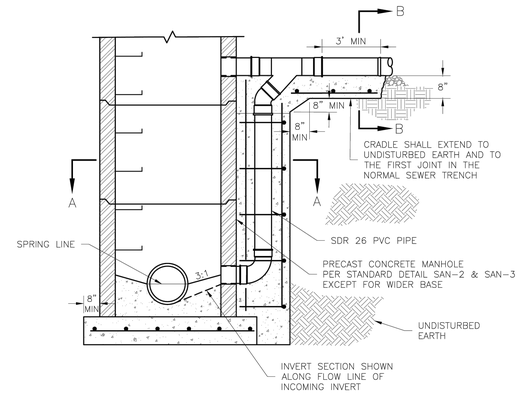
SAN-1



SECTION A–A



SECTION B–B



NOTE:
REFER TO DRAWING SAN–2 FOR MANHOLE DETAILS NOT SHOWN.

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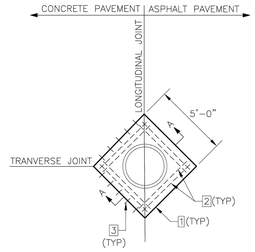
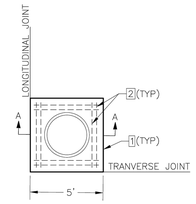
STANDARD OUTSIDE DROP MANHOLE

Date: 08/2023
Drawn By: MJF
Checked By: AB

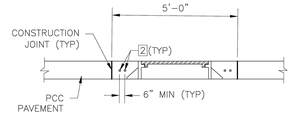
SAN-4



MANHOLE BOXOUT TYPE 1
NOT TO SCALE



MANHOLE BOXOUT TYPE 2
NOT TO SCALE



SECTION A–A
NOT TO SCALE

NOTES:
– MINIMUM 2" CLEAR ON REINFORCEMENT. CENTER CASTING WITHIN BOXOUT AREA.
– CONCRETE SHALL BE KCMMB 4K MIX.
– ALL STEEL SHALL BE EPOXY COATED.
– FOR CONSTRUCTION JOINT DETAIL, SEE DETAIL 2 ON SHEET GEN–10, TYPICAL PAVEMENT JOINT DETAILS.

1 CONSTRUCTION JOINT.
2 4"–8"(TYP) #4 BAR. PLACE AT MID–SLAB.
3 #4 DOWELS @ 12" O.C. INTO CONCRETE PAVEMENT MIN. LENGTH 12".

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MANHOLE BOXOUT IN PAVEMENT DETAIL

Date: 08/2023
Drawn By: MJF
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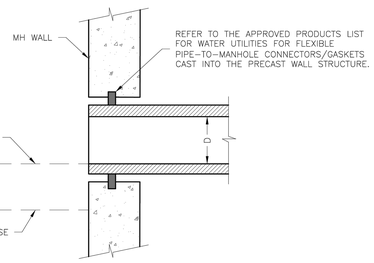
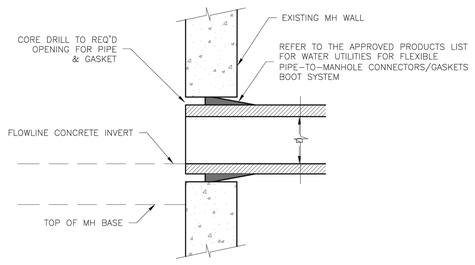
SAN-9



NEW MANHOLE

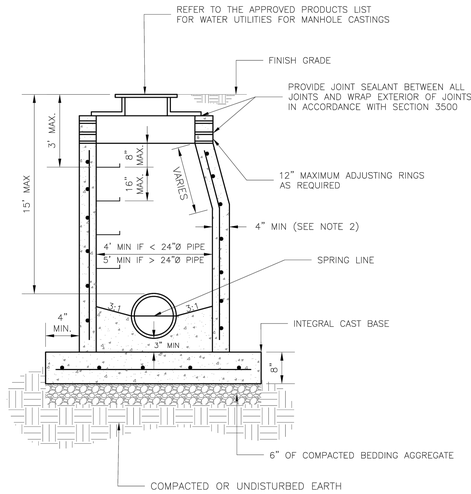


EXISTING MANHOLE

LEE'S SUMMIT
MISSOURI

Date: 08/2023
Drawn By: MJF
Checked By: AB

SAN-5



NOTES:

1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE–TWELFTH ($\frac{1}{12}$) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 15'.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

LEE'S SUMMIT
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STANDARD SANITARY PRECAST MANHOLE

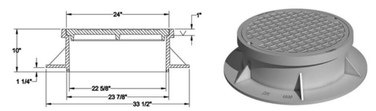
Date: 08/2023
Drawn By: MF
Checked By: AB

SAN-2

Deeter FOUNDRY

1320
MANHOLE RING & SOLID COVER

Catalog Number	Frame Type	A	B	C	E	F	Duty
1320	A	24	1 1/2	22 5/8	33 1/2	9	Heavy



All dimensions are listed in inches unless otherwise noted.

NOTE:
1. PER CITY REQUIREMENTS MANHOLE FRAME AND COVER SHALL BE DEETER 1320, CLAY & BAILEY 2007, EJ 1502, R.B. AGARWALLA & CO 2007-01-6000 OR AN APPROVED EQUAL.

MANHOLE FRAME & COVER
N.T.S.
D1

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: SAN-DETAILS-GA
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

SANITARY SEWER DETAILS

C118

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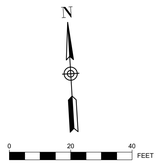


UTILITY PLAN LEGEND

UGE UGE	EXISTING UNDERGROUND ELECTRIC
FO FO	EXISTING FIBER OPTIC LINE
G G	EXISTING GAS
	EXISTING SANITARY SEWER
W W	EXISTING WATER MAIN
C C	EXISTING COMMUNICATIONS LINE
W W	PROPOSED WATER SERVICE
	PROPOSED SANITARY SEWER SERVICE
FO	PROPOSED FIBER OPTIC LINE
ST ST	PROPOSED STORM SEWER
UGE UGE	PROPOSED UNDERGROUND ELECTRIC
E E	PROPOSED STREET LIGHT CIRCUIT
G G	PROPOSED GAS SERVICE
	EXISTING STORM INLET
S	EXISTING SANITARY SEWER MANHOLE
	EXISTING LIGHTPOLE
	PROPOSED FIRE HYDRANT
	PROPOSED VALVE
W	PROPOSED WATER METER
H	PROPOSED HANDHOLE
	PROPOSED LIGHT POLE

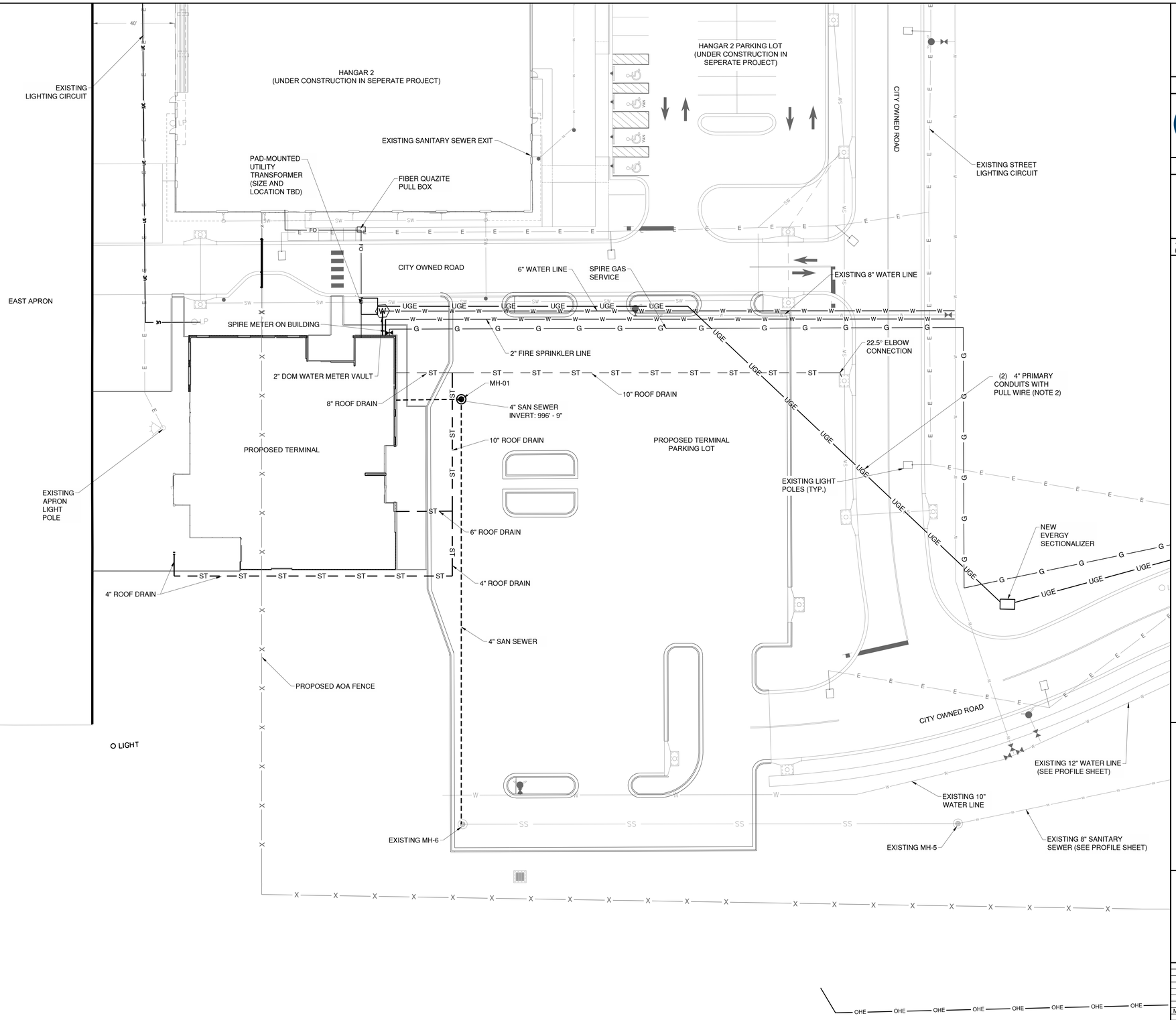
UTILITY NOTES

1. CONTRACTOR SHALL COORDINATE ALL ELECTRIC SERVICE INSTALLATION WORK WITH EVERGY.

2. CONTRACTOR TO INSTALL PRIMARY CONDUITS WITH PULL STRING FOR NEW ELECTRIC SERVICE. EVERGY TO INSTALL PRIMARY CONDUCTORS AND TERMINATE AT NEW PAD-MOUNTED TRANSFORMER.

3. TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY MISSOURI ONE-CALL SYSTEM,INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.

4. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.



UTILITY DISCLAIMER

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
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PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

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UTILITY PLAN 1 OF 2

C119

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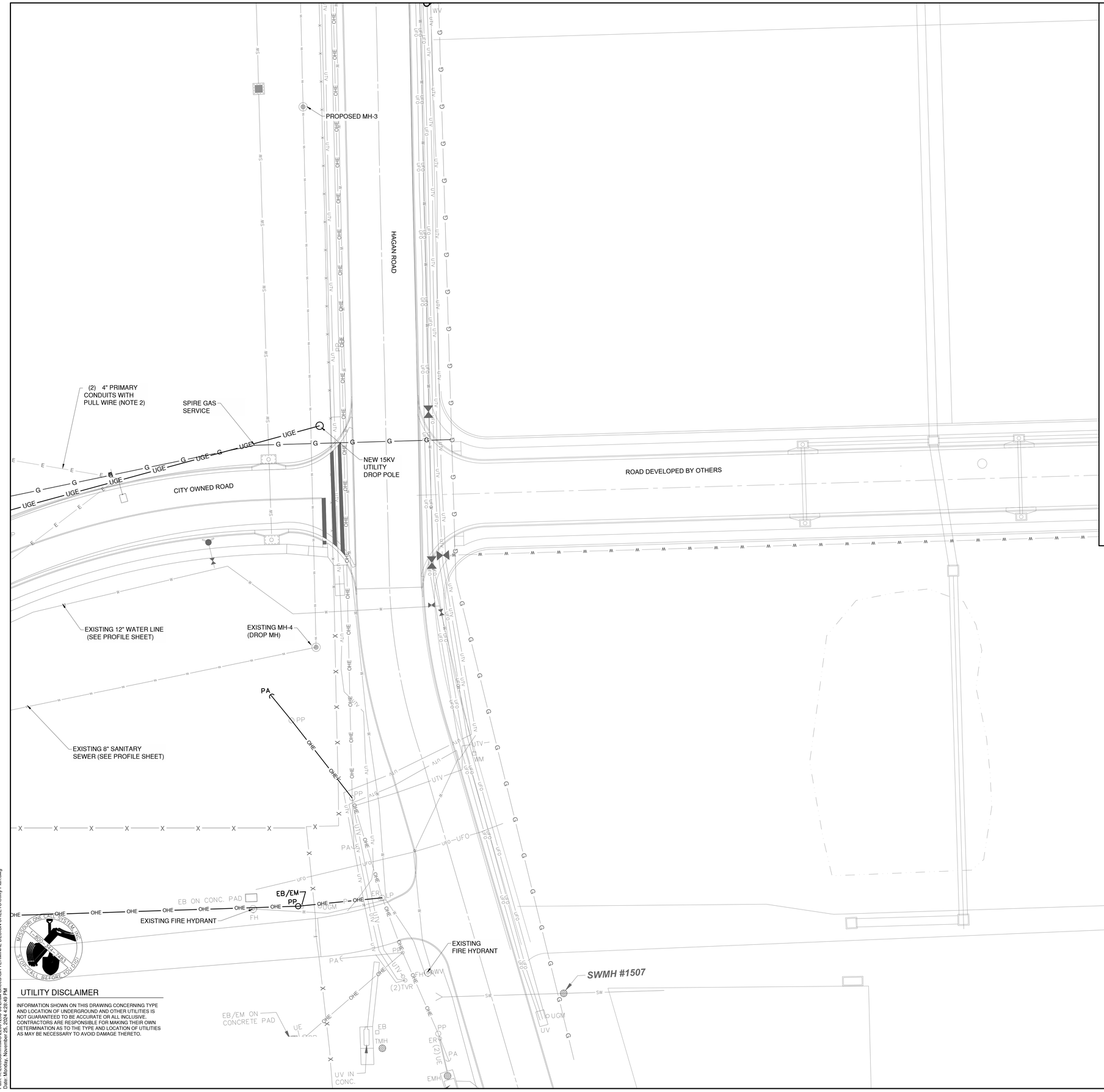

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N

0 20 40 FEET

UTILITY PLAN LEGEND

- EXISTING UNDERGROUND ELECTRIC
- EXISTING FIBER OPTIC LINE
- EXISTING GAS
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING COMMUNICATIONS LINE
- PROPOSED WATER SERVICE
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED FIBER OPTIC LINE
- PROPOSED STORM SEWER
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED STREET LIGHT CIRCUIT
- PROPOSED GAS SERVICE
- EXISTING STORM INLET
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY CLEANOUT
- EXISTING LIGHTPOLE
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED WATER METER
- PROPOSED HANDHOLE
- PROPOSED LIGHT POLE

UTILITY NOTES

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2. CONTRACTOR TO INSTALL PRIMARY CONDUITS WITH PULL STRING FOR NEW ELECTRIC SERVICE. EVERGY TO INSTALL PRIMARY CONDUCTORS AND TERMINATE AT NEW PAD-MOUNTED TRANSFORMER.

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4. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
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PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: UTILITY PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
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APPROVED BY: BB

SHEET TITLE

UTILITY PLAN 2 OF 2

C120

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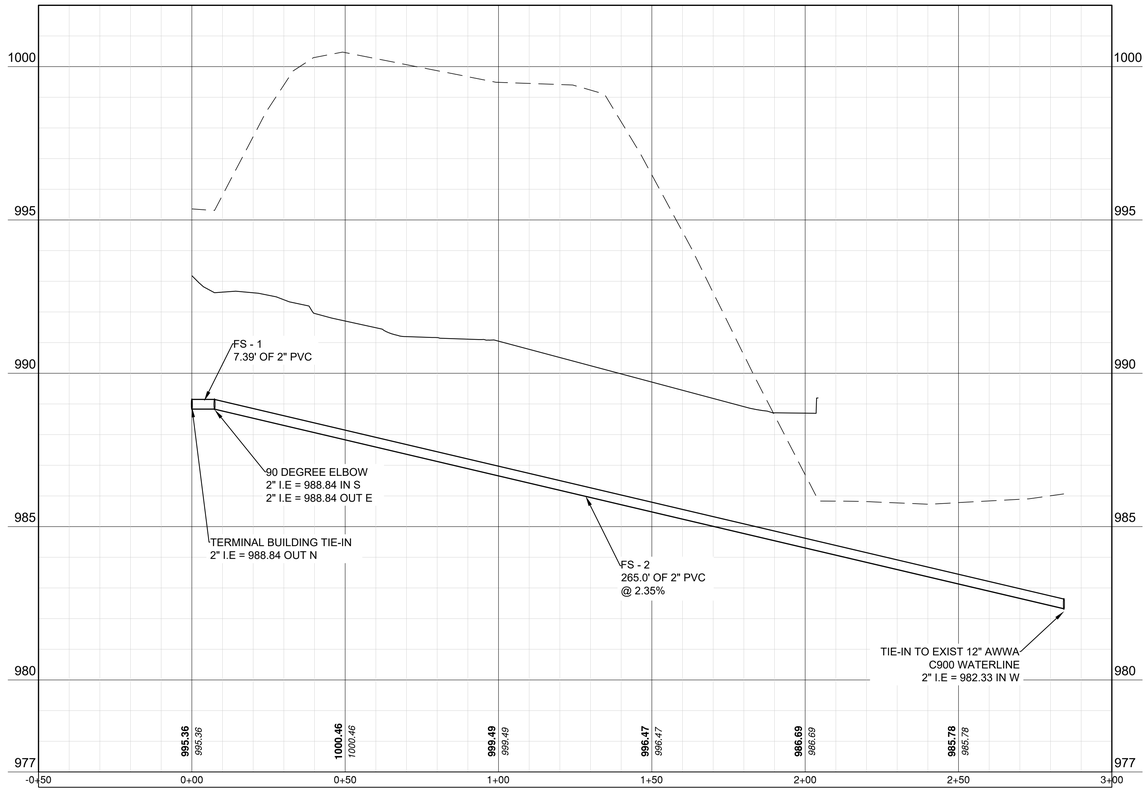
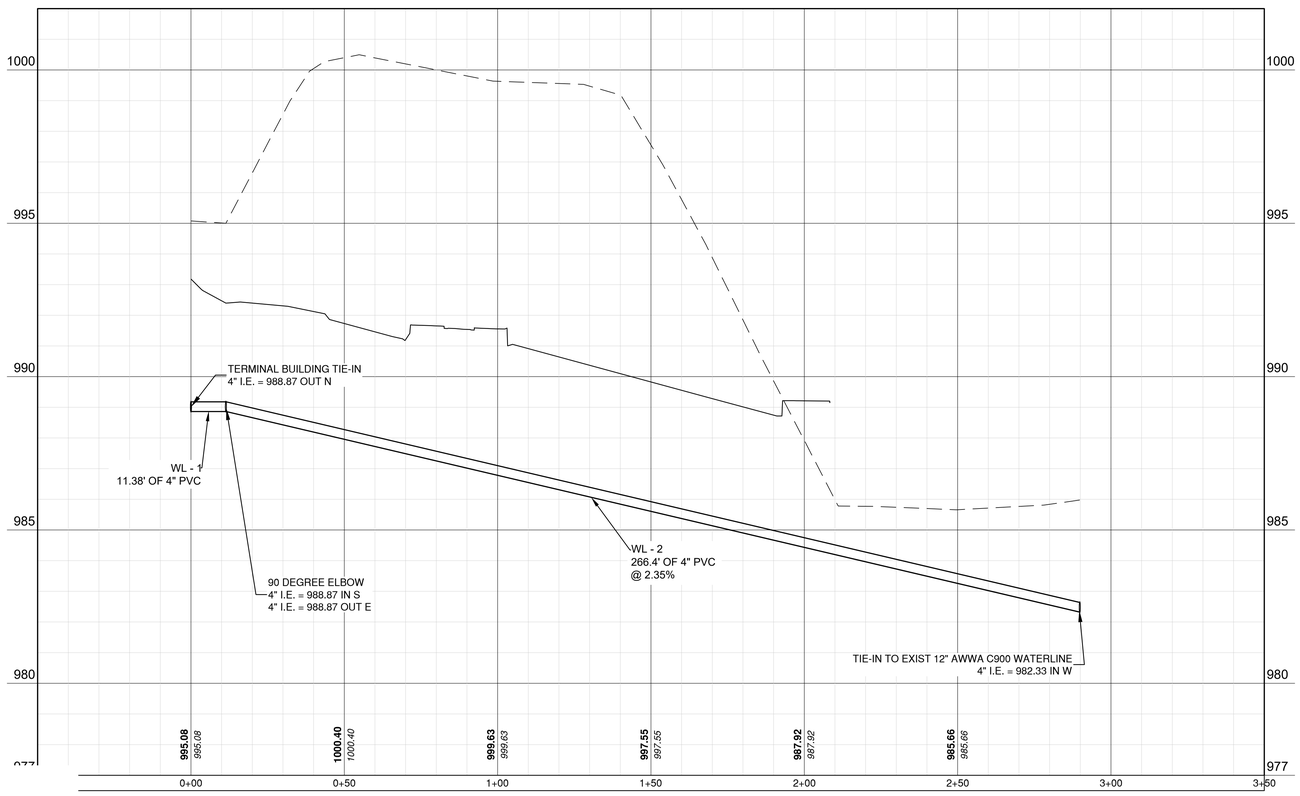
Alignment - Fire Sprinkler PROFILE



Alignment - Terminal Building Water Line PROFILE



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N
TRUE
0 30 60 FEET

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LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

STATE OF MISSOURI
TYLER G. HORN
NUMBER PE-2018000214
PROFESSIONAL ENGINEER

SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

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UTILITY PROFILE 1 OF 3

C121

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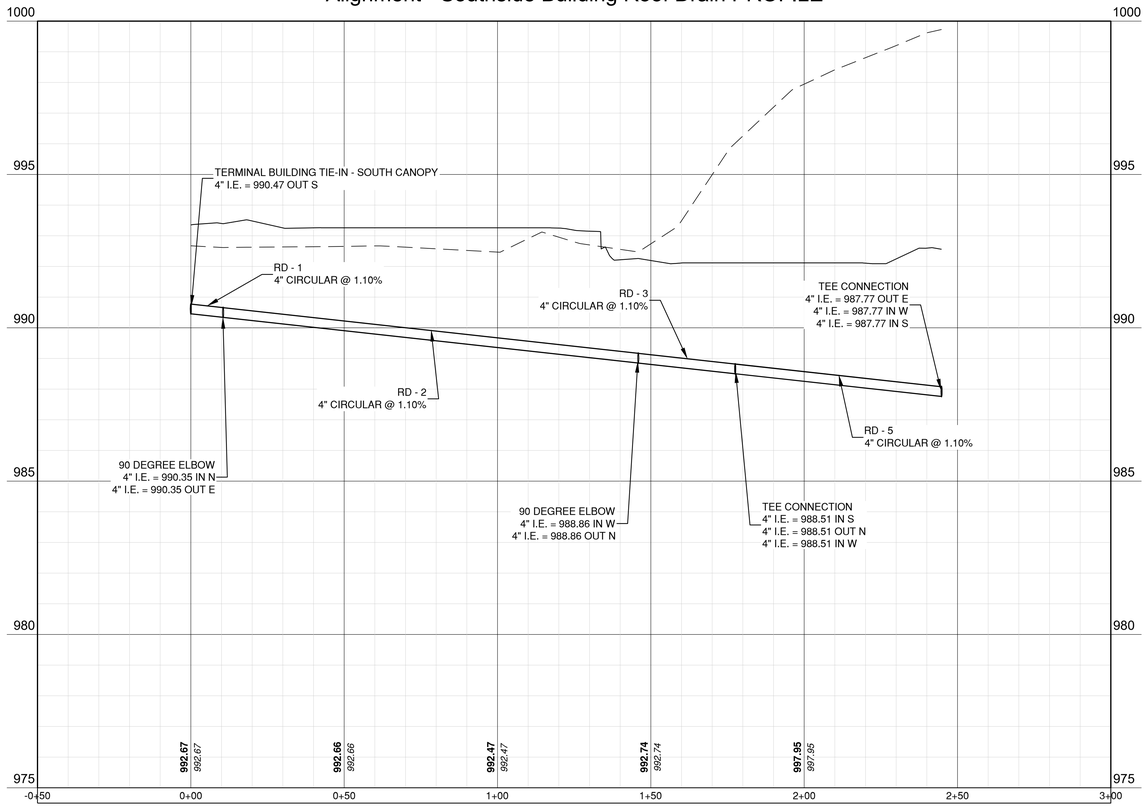
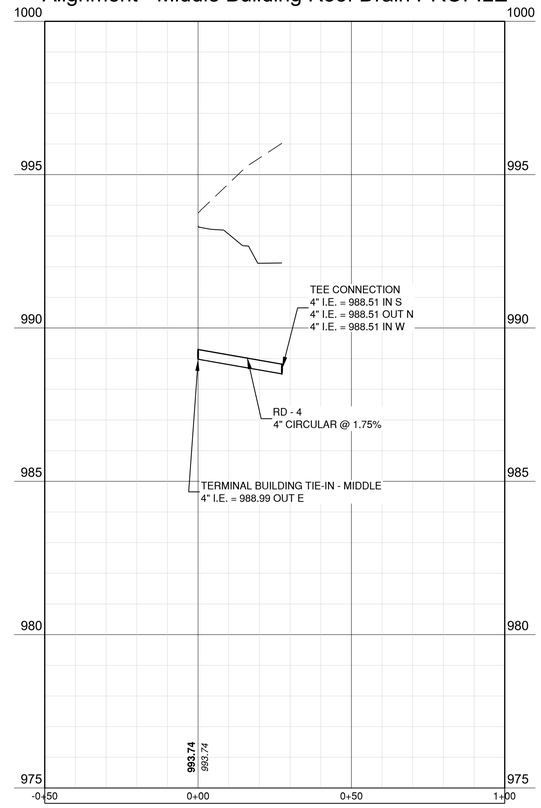
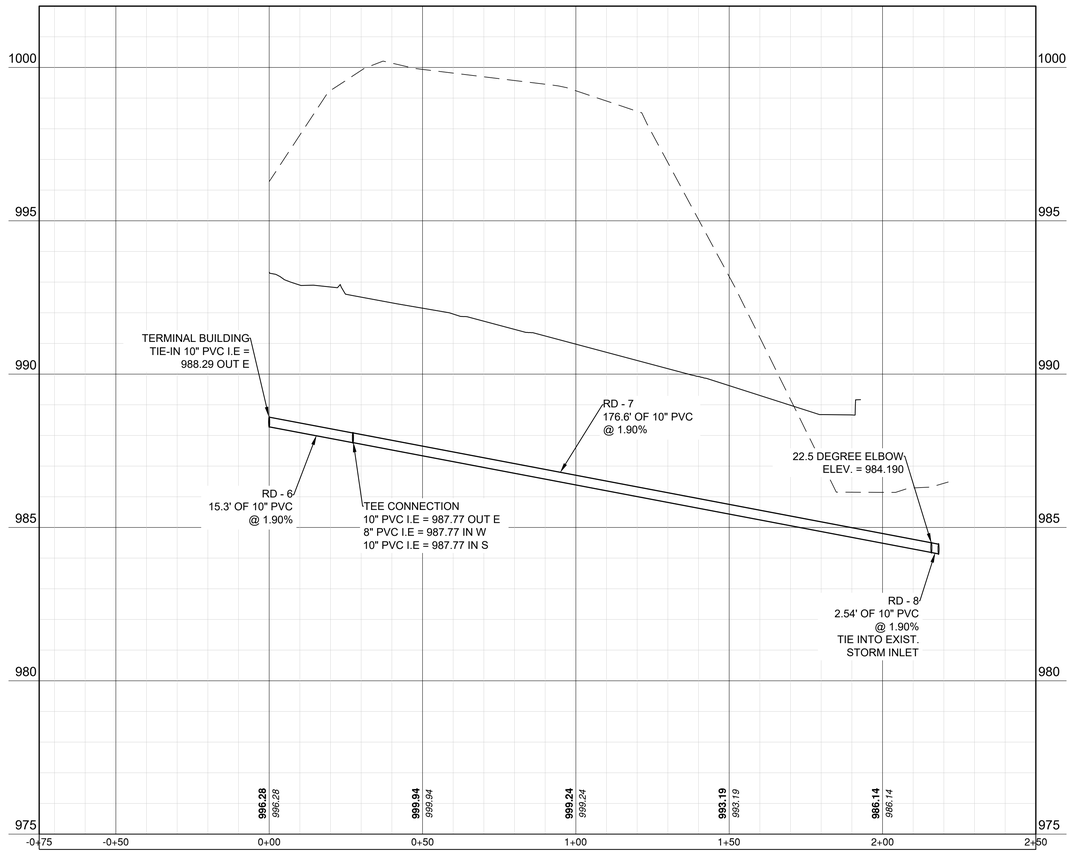
Alignment - Southside Building Roof Drain PROFILE

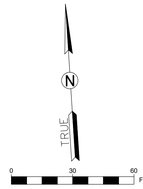


Alignment - Middle Building Roof Drain PROFILE



Alignment - Northside Building Roof Drain PROFILE





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EASTSIDE DEVELOPMENT
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LEE'S SUMMIT, MO

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UTILITY PROFILE 2 OF 3

C122

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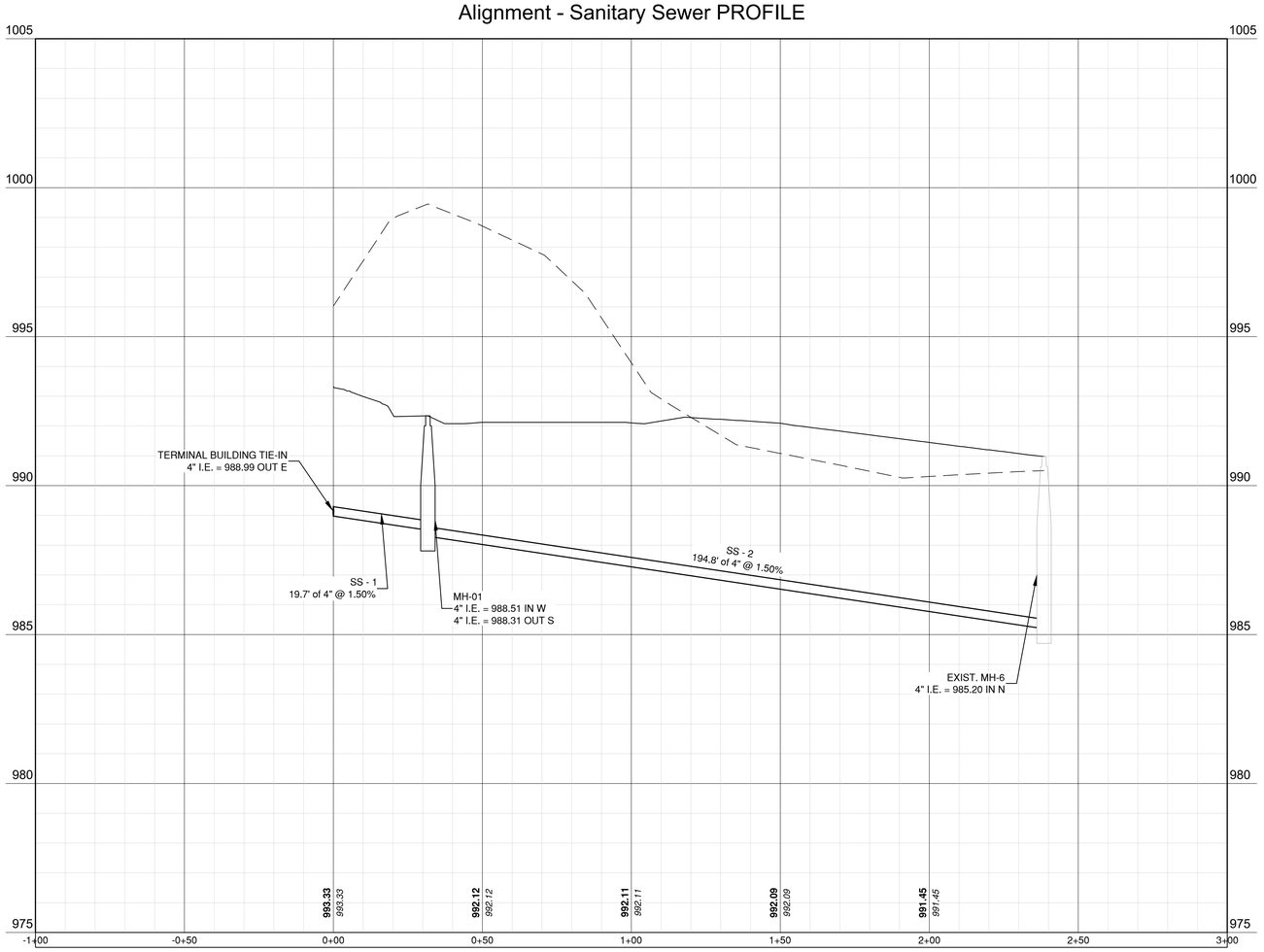
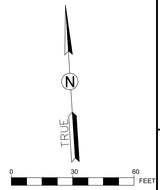
Alignment - Sanitary Sewer PROFILE





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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
CITY PROJECT NO. - 47732472

STATE OF MISSOURI
TYLER G. HORN
NUMBER PE-2018000214
PROFESSIONAL ENGINEER

SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	47732472
CAD DWG FILE:	UTILITY PROFILES - GA
DESIGNED BY:	WLC
DRAWN BY:	WLC
CHECKED BY:	JRC
APPROVED BY:	TGH
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SHEET TITLE

UTILITY PROFILE 3 OF 3

C123

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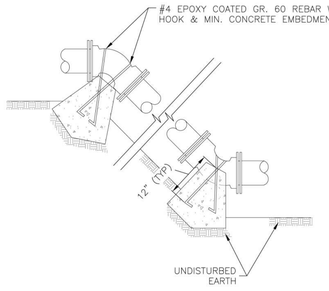
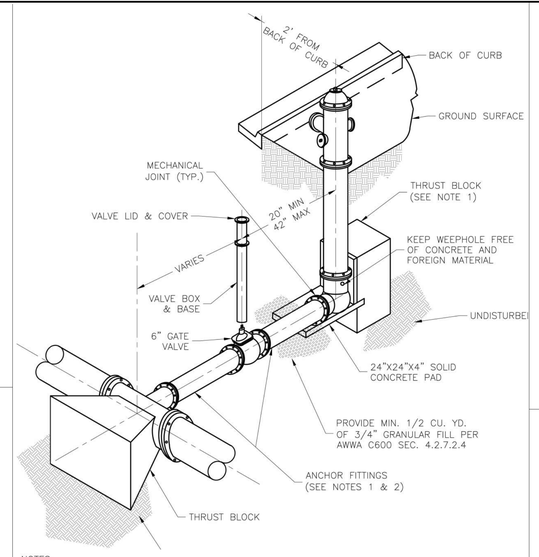


NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

REQUIRED CONCRETE VOLUME (CUBIC FEET – CF)

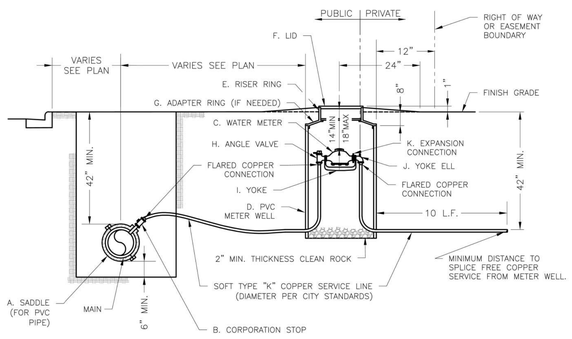
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

VERTICAL THRUST BLOCK
N.T.S. WAT-2



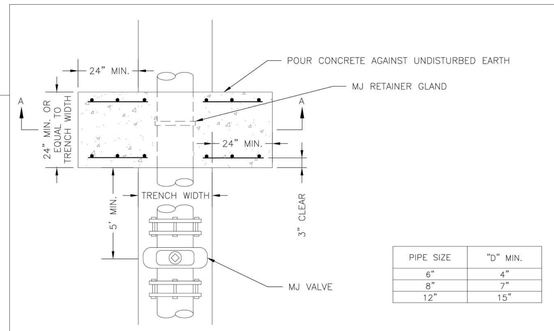
NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF ANCHOR FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO ANCHOR TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

FIRE HYDRANT ASSEMBLY DETAIL
N.T.S. WAT-7



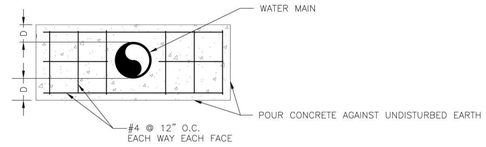
NOTES:
1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
3. CITY TO FURNISH ITEMS A–K.
4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
9. LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
10. CONTACT WATER UTILITIES, 816–969–1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

SERVICE CONNECTION WITH METER WELL
N.T.S. WAT-11



TOP VIEW

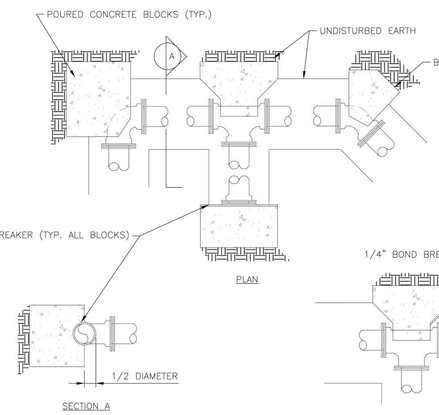
PIPE SIZE	"D" MIN.
6"	4"
8"	7"
12"	15"



SECTION A–A

NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

STRADDLE BLOCK DETAIL
N.T.S. WAT-3

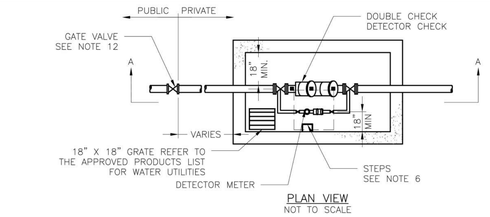


REQUIRED CONCRETE BEARING AREA (SQUARE FEET – SF)

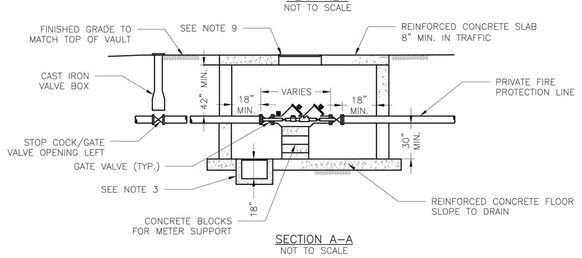
NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

HORIZONTAL THRUST BLOCK
N.T.S. WAT-1



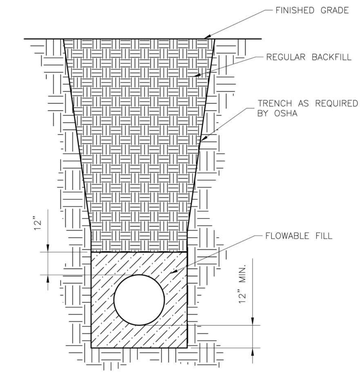
PLAN VIEW
NOT TO SCALE



SECTION A–A
NOT TO SCALE

GENERAL NOTES:
1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
2. METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
3. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE–GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
4. ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
5. ALL FITTINGS TO BE BRASS.
6. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
7. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816–969–1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPRINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
8. ALL VALVES SHALL HAVE RISING STEMS.
9. FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON–TRAFFIC CONDITIONS.
10. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
11. METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
12. IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

BACKFLOW PREVENTENTION VAULT
N.T.S. WAT-12



NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

WATER TRENCH CHECK DETAIL
N.T.S. WAT-6

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: WATER-DETAILS-GA
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
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WATER LINE DETAILS

C124

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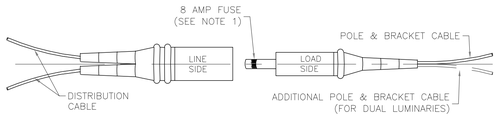
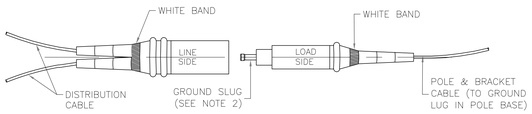


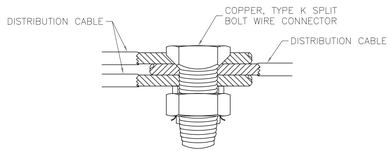
BREAK–AWAY FUSED ELECTRICAL CONNECTORS



BREAK–AWAY NON FUSED ELECTRICAL CONNECTOR

NOTES:

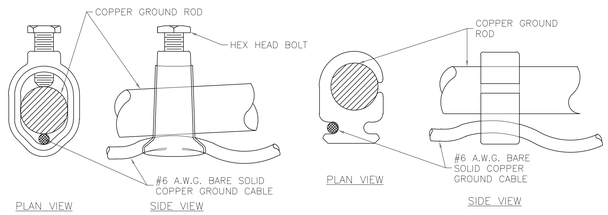
1. FUSE REMAINS IN "LOAD SIDE" AFTER BREAK–AWAY.
2. GROUND "SLUG" REMAINS IN "LOAD SIDE" AFTER BREAK–AWAY.
3. CONNECTORS SHALL HAVE SET SCREW TYPE TERMINALS TO ATTACH CABLES.



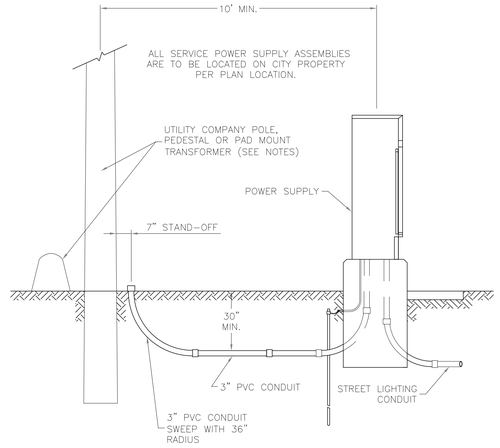
SPLICE KIT DETAILS

NOTES:

1. TO BE USED ONLY IN JUNCTION OR PULL BOXES WHERE CIRCUITS BRANCH OR "TEE".
2. ALL SPLICES SHALL BE PROTECTED WITH A RESIN SPLICE KIT (NOT SHOWN) INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



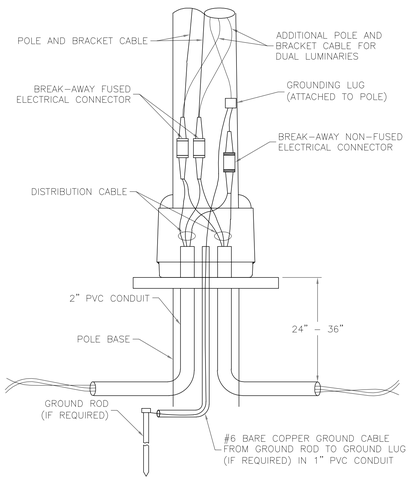
GROUND ROD CONNECTION DETAILS



SECONDARY SERVICE CONNECTION DETAILS

NOTES:

1. CONTRACTOR SHALL INSTALL A CONDUIT STUB 24" TO 6" ABOVE GROUND AT UTILITY POLES. CONDUIT SHALL BE STUBBED TO THE SIDE OF THE POLE THAT WILL ALLOW A DIRECT RUN UP THE POLE TO THE TRANSFORMER WITHOUT CROSSING OTHER UTILITY LINES OR CABLES. THE END OF THE CONDUIT SHALL BE CAPPED.
2. CONTRACTOR SHALL INSTALL CONDUIT IN A TRENCH TO WITHIN 24" OF PEDESTALS OR PAD MOUNT TRANSFORMERS AND LEAVE A 36" X 36" X 36" ACCESS HOLE IN THE GROUND. CONTRACTOR SHALL KEEP OPEN TRENCH COVERED AND PROMPTLY BACKFILL ACCESS HOLE WHEN SERVICE IS COMPLETED.



POLE WIRING DETAILS

LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: POLE AND LUMINAIRE DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: ELECTRICAL DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SL-5

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LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT
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TYLER G. HORN
NUMBER PE-2018000214
PROFESSIONAL ENGINEER

SEALED DIGITALLY
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 47732472
CAD DWG FILE: ELECTRICAL DETAILS
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ELECTRICAL DETAILS

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User: Moriarty, November 25, 2024 4:29:35 PM

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PLAN LEGEND

X — EXISTING CHAIN-LINK FENCE

XX — PROPOSED CHAIN-LINK FENCE

PLAN KEYNOTES

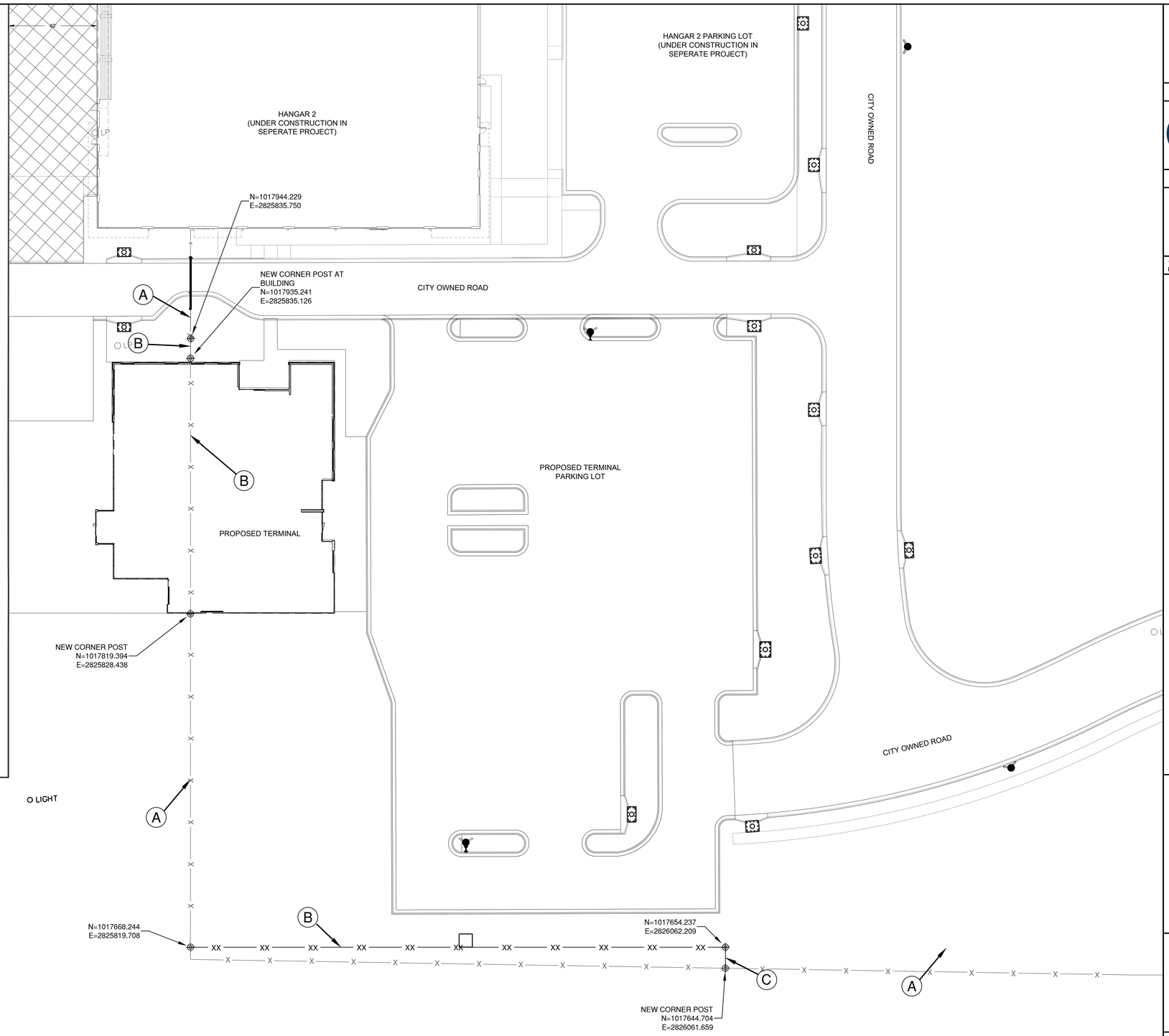
(A) EXISTING PERIMETER FENCE

(B) REMOVAL OF EXISTING PERIMETER FENCE

(C) PROPOSED PERIMETER AOA FENCE

FENCING NOTES:

1. THE EXISTING CHAIN-LINK FABRIC, BARBED WIRE, POSTS AND OTHER MISCELLANEOUS COMPONENTS OF THE FENCING THAT IS REMOVED SHALL BE OFFERED TO THE AIRPORT AND THE AIRPORT SHALL HAVE THE RIGHT TO RETAIN ANY REMOVED MATERIAL AT NO ADDITIONAL COST TO THE CONTRACT. THE CONTRACTOR SHALL TAKE CARE TO PRESERVE THE INTEGRITY OF THE EXISTING FENCE TO BE REMOVED TO THE GREATEST EXTENT POSSIBLE IN THE REMOVAL PROCESS. ANY MATERIAL DESIRED BY THE AIRPORT SHALL BE STOCKPILED BY THE CONTRACTOR IN A LOCATION AT THE AIRPORT TO BE DETERMINED BY THE ENGINEER. ANY FENCING OR FENCING COMPONENTS THAT ARE NOT DESIRED BY THE AIRPORT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF AIRPORT PROPERTY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS. STOCKPILING OF THE MATERIALS AND/OR DISPOSAL OF THE MATERIALS OFF AIRPORT PROPERTY SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE FENCE REMOVAL.
2. THE CONTRACTOR SHALL SEQUENCE THE CONSTRUCTION OF THE NEW FENCE AND THE REMOVAL OF THE OLD FENCE IN A MANNER TO MAINTAIN A SECURED AIRPORT PERIMETER AT ALL TIMES. THE NEW FENCE SHALL BE CONSTRUCTED AND TIED INTO THE EXISTING FENCE PRIOR TO REMOVAL OF THE OLD FENCE.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO PERFORMING ANY WORK ON SITE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.



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GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: FENCING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
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FENCING PLAN

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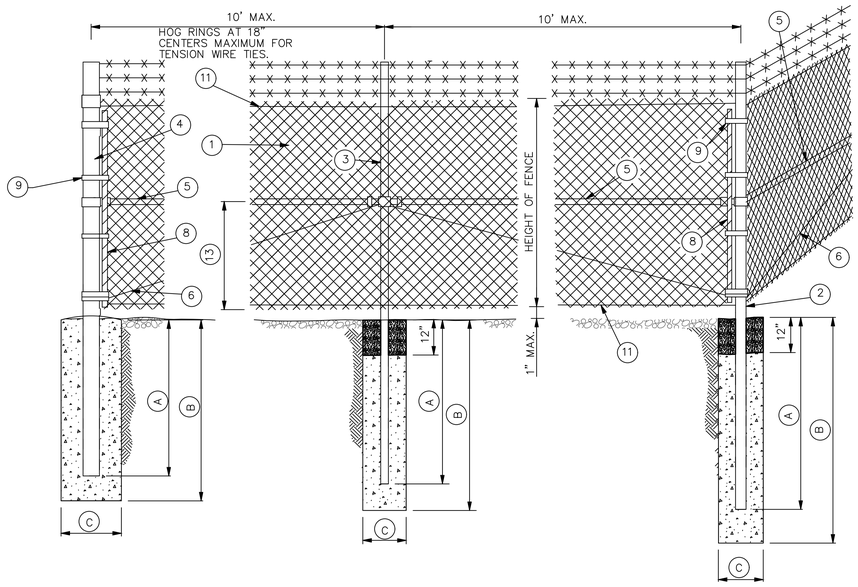
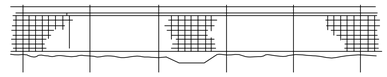
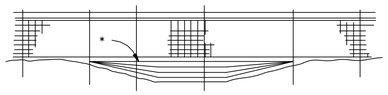
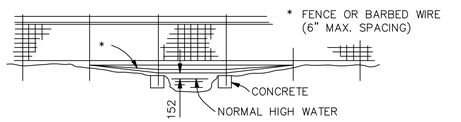




ROADWAY DITCHES OR SMALL SHALLOW CHANNELS
(SPAN WITH NORMAL LINE POST SPACING)

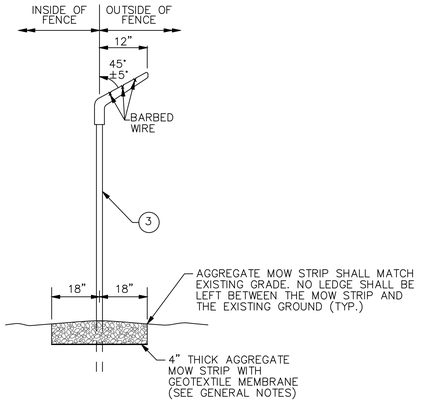


POORLY DEFINED CHANNELS (SMALL DRAINAGE AREAS)

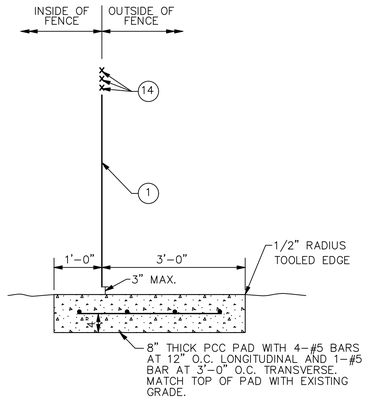


WELL DEFINED CHANNELS (LARGE DRAINAGE AREAS)

TYPICAL FENCING AT CHANNEL CROSSING



BARBED WIRE EXTENSION BRACKET AND MOW STRIP



CONCRETE PAD AT GATES

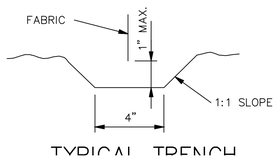
NOTE:
CONCRETE PAD TO BE INSTALLED AT ALL GATE LOCATIONS WHERE PORTLAND CEMENT CONCRETE OR BITUMINOUS CONCRETE DOES NOT ALREADY EXIST.

MINIMUM DEPTH FOR SETTING POSTS

DESCRIPTION		HEIGHT OF FENCE 48" SIZE (IN.)	60" SIZE (IN.)	72" SIZE (IN.)	96" SIZE (IN.)
(2) END CORNER & PULLPOST	(A)	30"	36"	36"	54"
	(B)	36"	42"	42"	60"
	(C)	10"	12"	12"	14"
(3) LINE POST	(A)	24"	27"	36"	48"
	(B)	30"	36"	42"	54"
	(C)	10"	12"	12"	12"
(4) GATE POST	(A)	30"	36"	36"	42"
	(B)	36"	42"	42"	48"
	(C)	10"	12"	12"	14"

WIRE SIZE AND HEIGHT OF FABRIC

SPECIFIED DIAMETER			HEIGHT OF FABRIC
INCHES	MIN. GAGE	MESH INCHES	INCHES
0.120	11	2	36 – 42
0.148	9	2	48 – 96



TYPICAL TRENCH

MINIMUM SIZE FOR FENCE HARDWARE

	WIDTH	SIZE (IN.)	LBS/FT.
(2) END CORNER OR PULL POST	N/A	31/2 DIA.	9.10
(3) LINE POST	N/A	2" DIA.	3.65
(4) GATE POST (SINGLE GATE OR 1 LEAF OF DOUBLE)	ĺ 6'	21/2 DIA.	5.79
	ĺ 13'	31/2 DIA.	9.10
	ĺ 18'	6 DIA.	18.97
	Ç 18'	8 DIA.	24.70
	N/A	11/4 DIA.	2.27
	N/A	3/8	–
	N/A	11/2 DIA.	2.72

LEGEND

(1) FABRIC
(2) END, CORNER OR PULL POST
(3) LINE POST
(4) GATE POST
(5) BRACE
(6) TRUSS ROD
(7) GATE FRAME
(8) STRETCHER BAR 1/4" X 3/4" PLATE
(9) STRETCHER BAR BAND
(10) END OR CORNER CLAMP
(11) TENSION WIRE
(12) FABRIC TIES
(13) ONE–HALF FABRIC HEIGHT OR AS RECOMMENDED BY MANUFACTURER
(14) BARBED WIRE

GENERAL NOTES:

1. WEIGHTS OF MATERIALS SHOWN IN TABLE ARE FOR ASTM F 1043, GROUP IA. SIZES SHOWN ARE FOR STEEL AND ALUMINUM. EQUIVALENT ASTM F 1043 ALTERNATIVES MAY BE USED.
2. PULL POSTS SHALL BE USED AT SHARP BREAKS IN VERTICAL GRADE OR AT APPROXIMATE 300' CENTERS ON STRAIGHT RUNS OR AS DIRECTED BY THE ENGINEER.
3. DRILLED HOLES Ç IN SOLID ROCK SHALL PROVIDE A DIAMETER OF NOT LESS THAN 2" GREATER THAN THE MAXIMUM TRANSVERSE DIMENSION OF THE POST SECTION.
4. ALL POSTS SHALL HAVE PROVISIONS TO SECURELY HOLD THE TOP TENSION WIRE IN POSITION AND ALLOW FOR REMOVAL AND REPLACEMENT OF A POST WITHOUT DAMAGING THE TOP TENSION WIRE.
5. THE MESH SIZE SHALL BE 2 INCHES ± 1/8 IN. MEASURED IN EITHER DIRECTION AS THE MINIMUM CLEAR DISTANCE BETWEEN THE WIRES FORMING THE PARALLEL SIDES OF THE MESH.
6. THE AGGREGATE MOW STRIP SHALL RUN THE ENTIRE LENGTH OF THE FENCELINE AND SHALL BE SURFACED WITH 4" OF WELL–GRADED CRUSHED ROCK AGGREGATE. GEOTEXTILE MEMBRANE SHALL BE INSTALLED UNDER THE AGGREGATE. MEMBRANE SHALL BE NON–WOVEN POLYPROPYLENE FIBERS TO A MINIMUM DENSITY OF 8oz PER SY. TOP OF ROCK SHALL BE BETWEEN 0" TO 1" FROM THE BOTTOM OF THE CHAIN–LINK FABRIC. THIS WORK SHALL BE INCIDENTAL TO THE FENCE PAY ITEM.
7. ALL POSTS SHALL BE ROUND AND SHALL BE SET IN CONCRETE WITH 1 FOOT OF COMPACTED SOIL ABOVE THE CONCRETE.
8. THE MAXIMUM GAP ALLOWED WHERE THE FENCE ABUTS BUILDINGS, AT GATE AND HINGE CLOSURE POSTS, AT CENTER OF DOUBLE GATES, AND AT THE BOTTOM OF GATES SHALL BE 3" OR LESS.
9. THE PCC PAD AT GATES SHALL BE INCIDENTAL TO THE GATE PAY ITEM.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

CHAIN–LINK FENCE

REVISED BY CMT:
DATE: 03–27–2015
EFFECTIVE: 02–01–2007

607.10V

1/1

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KANSAS CITY - LEE'S SUMMIT
REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: FENCING PLAN
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
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SHEET TITLE
FENCING DETAILS

C127

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LEGEND

- STOCKPILE AND STORAGE AREA
- LIMITS OF DISTURBANCE
- 1400 — EXISTING CONTOUR
- 1400 — PROPOSED CONTOURS
- FS — FS — PROPOSED FILTER SOCK
- FLOW ARROW
- INLET PROTECTION
- TEMPORARY CONCRETE WASHOUT AS REQUIRED FOR PCC CONSTRUCTION

SEQUENCE OF CONSTRUCTION:

1. CONTRACTOR MUST INSTALL PERIMETER FILTER SOCK CONTROLS PRIOR TO GRADING OPERATIONS.
2. WHEN NEW INLETS ARE INSTALLED, CONTRACTOR TO PUT IN PLACE INLET PROTECTION ON NEW INLETS AS SOON AS POSSIBLE AS INDICATED ON THE PLANS.
3. AFTER GRADING OF DITCHES, DITCH CHECKS TO BE PUT IT PLACE AS SOON AS POSSIBLE.
4. ALL INLET PROTECTION, SILT SOCKS, AND DITCH CHECKS TO REMAIN IN PLACE AND BE MAINTAINED THROUGHOUT CONSTRUCTION AS REQUIRED UNTIL FULL VEGETATION IS ESTABLISHED. CONTRACTOR TO USE SEEDING AND EROSION CONTROL BLANKETS ACCORDING TO REQUIREMENTS OF THIS SHEET AND LANDSCAPE PLANS.

KEYNOTE

(A) INLET PROTECTION

ACREAGE SUMMARY
DISTURBED AREA = 2.92 AC
IMPERVIOUS AREA = 0 AC
PERVIOUS AREA = 2.92 AC

HANGAR 2
(UNDER CONSTRUCTION IN SEPARATE PROJECT)

HANGAR 2 PARKING LOT
(UNDER CONSTRUCTION IN SEPERATE PROJECT)

CITY OWNED ROAD

EXISTING APRON

PROPOSED TERMINAL

O LIGHT

EMH PP PP (2)PA OHE

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	17932172
CAD DWG FILE:	EROSION CONTROL PLAN-PHASE 1 NEW
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SHEET TITLE

EROSION CONTROL PLAN - PHASE 1

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LEGEND

AREA TO RECEIVE SEEDING / FERTILIZING PER SPECIFICATIONS AND NORTH AMERICAN GREEN EroNet SC150 EROSION CONTROL BLANKET
SEE EROSION CONTROL DETAILS

AREA TO BE SODDED

STOCKPILE AND STORAGE AREA

LIMITS OF DISTURBANCE

1400 EXISTING CONTOUR

1400 PROPOSED CONTOURS

FS FS PROPOSED FILTER SOCK

FLOW ARROW

INLET PROTECTION

TEMPORARY CONCRETE WASHOUT AS REQUIRED FOR PCC CONSTRUCTION

SEQUENCE OF CONSTRUCTION:

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KEYNOTE

(A) INLET PROTECTION

ACREAGE SUMMARY
DISTURBED AREA = 2.92 AC
IMPERVIOUS AREA = 0 AC
PERVIOUS AREA = 2.92 AC

PROPOSED SODDING

O LIGHT

EM PP PP (2)PA OHE OHE OHE OHE OHE OHE OHE OHE OHE OHE

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EROSION CONTROL PLAN - PHASE 2

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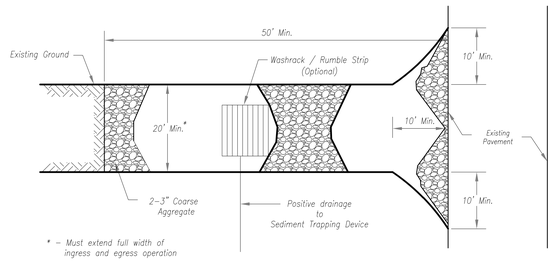
Maintenance for Construction Entrance:

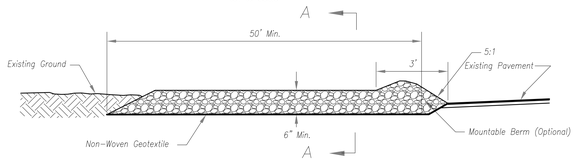
1. *Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.*

Notes for Construction Entrance:

1. *Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.*
2. *Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage*
3. *If slope towards the public road exceeds 2%, construct a 6– to 8–inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.*
4. *Install pipe under the entrance if needed to maintain drainage ditches along public roads.*
5. *Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.*
6. *Divert all surface runoff and drainage from the entrance to a sediment control device.*
7. *If conditions warrant, place geotextile fabric on the graded foundation to improve stability.*



Plan View
Not to Scale



Side Elevation
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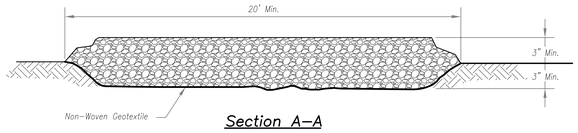
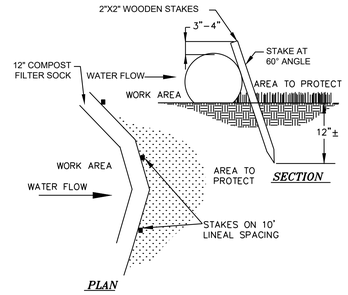


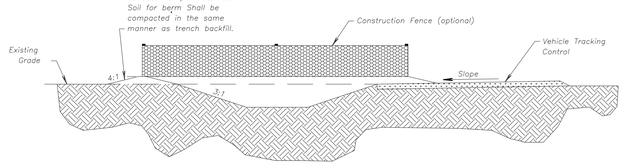
Section A–A
Not to Scale

CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE E1
N.T.S.



12" FILTER SOCK E2
N.T.S.



CONCRETE WASHOUT

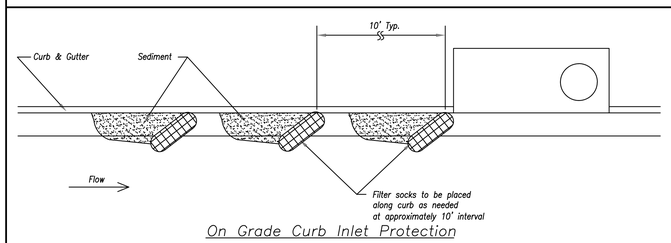
Notes for Concrete Washout:

1. *Concrete washout areas shall be installed prior to any concrete placement on site.*
2. *Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.*
3. *Vehicle tracking control is required at the access point to all concrete washout areas.*
4. *Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.*
5. *A one–piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.*

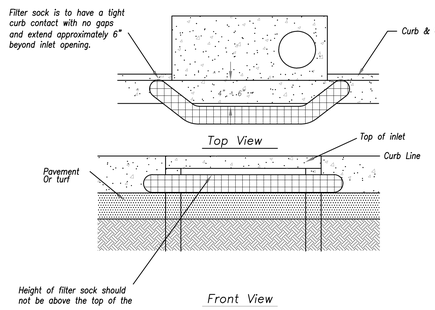
Maintenance for Concrete Washout:

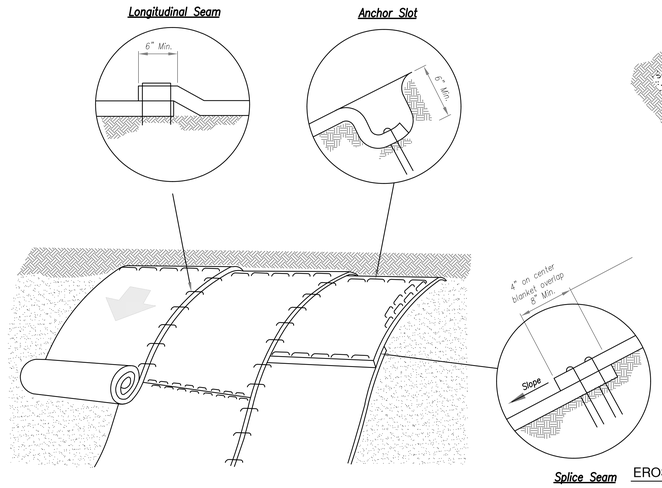
1. *Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.*
2. *Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.*
3. *Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water–tight container and disposed of properly.*
4. *Concrete washout areas shall remain in place until all concrete for the project is placed.*
5. *When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.*

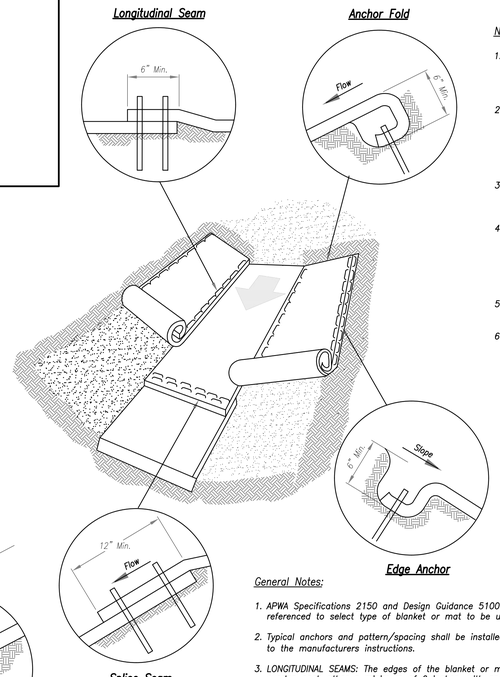
CONCRETE WASHOUT E3
N.T.S.



On Grade Curb Inlet Protection







EROSION CONTROL BLANKETS E5
N.T.S.

Notes for Installation in Channels:

1. *Erosion Control Blankets and TRMs shall be laid in the direction of the flow, with the first course at the centerline of channel, where applicable. In order for the mat to be in contact with the soil, lay the mat loosely, avoiding stretching.*
2. *ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.*
3. *SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.*
4. *CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.*
5. *EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.*
6. *TERMINUS: The bottom edge of the mat shall be anchored.*

General Notes:

1. *APWA Specifications 2150 and Design Guidance 5100 shall be referenced to select type of blanket or mat to be used.*
2. *Typical anchors and pattern/spacing shall be installed according to the manufacturers instructions.*
3. *LONGITUDINAL SEAMS: The edges of the blanket or mat should overlap each other a minimum of 6 inches, with anchors catching the edges of both blankets.*

Maintenance:

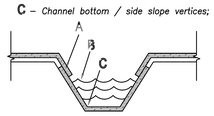
1. *Torn or degraded product shall be repaired or replaced, unless such degradation is within the functional longevity specified by the manufacturer.*
2. *Edges or seams that are loose or frayed shall be secured.*

Critical Points:

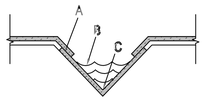
A – *Overlaps and seams;*

B – *Projected water line;*

C – *Channel bottom / side slope vertices;*



Trapezoidal Channel



V Channel

Installation in Channels

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T. Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	17932172
CAD DWG FILE:	EROSION CONTROL DETAILS
DESIGNED BY:	WLC
DRAWN BY:	WLC
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EROSION CONTROL DETAILS

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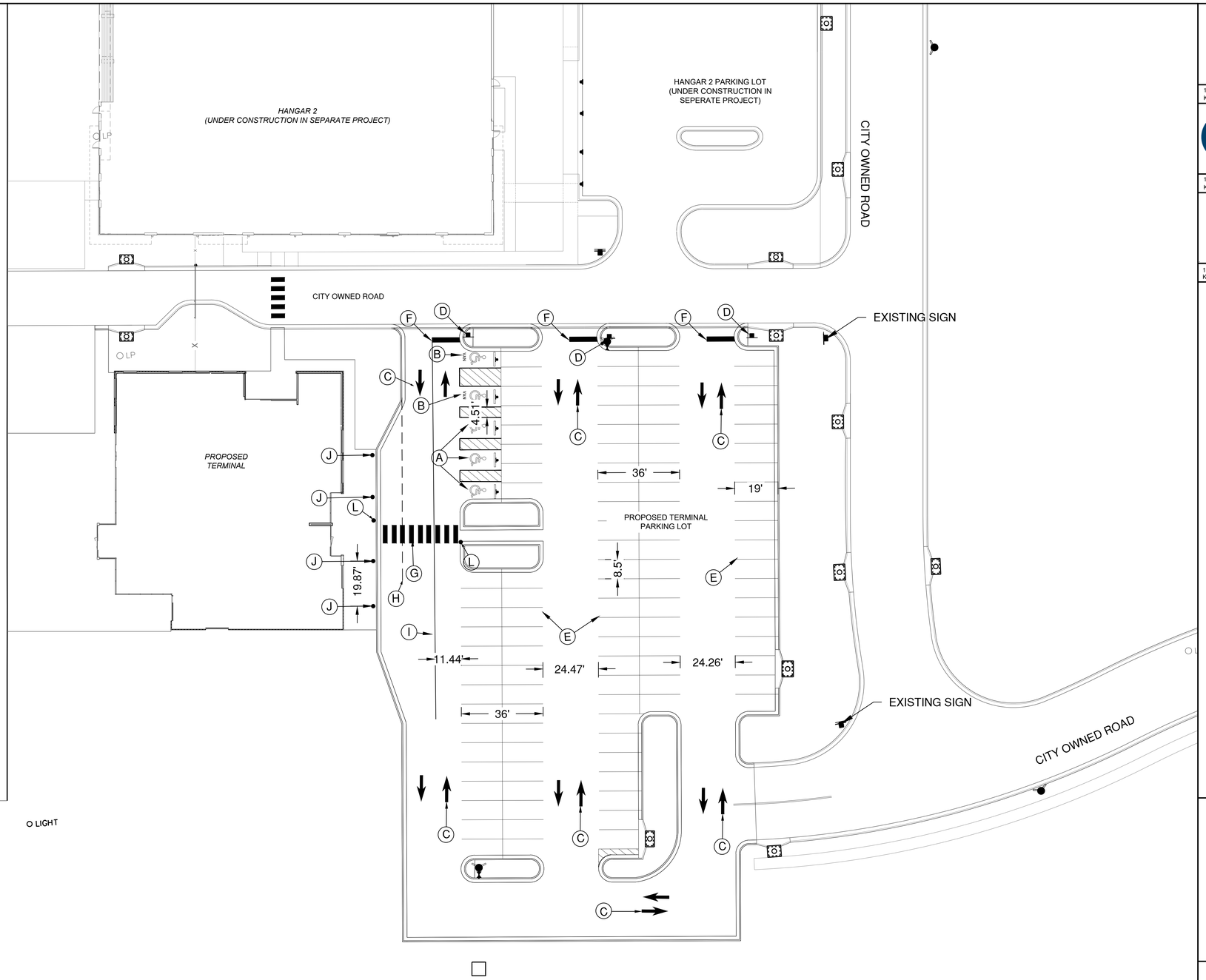
PLAN KEYNOTES

- (A) ADA STALL AND BOLLARD MOUNTED SIGNAGE
- (B) ADA VAN STALL AND BOLLARD MOUNTED SIGNAGE
- (C) TRAFFIC FLOW ARROWS THERMOPLASTIC
- (D) STOP SIGN
- (E) 4" THICK YELLOW PARKING STALL MARKING
- (F) 2' WIDE WHITE STOP BAR MARKING THERMOPLASTIC
- (G) TYPICAL MID-BLOCK OR SCHOOL CROSS WALK THERMOPLASTIC
- (H) 4" YELLOW DASHED WATERBORNE PAINT
- (I) 4" YELLOW SOLID WATERBORNE PAINT
- (J) NO PARKING SIGN WITH CANOPY COLUMN BASE
- (K) TRAFFIC MERGE SIGN
- (L) PEDESTRIAN CROSSWALK SIGN

R1-1 STOP SIGN
SIZE: 30 x 30



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PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

MARKING AND SIGNAGE

C131

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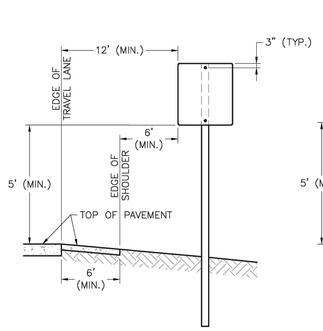
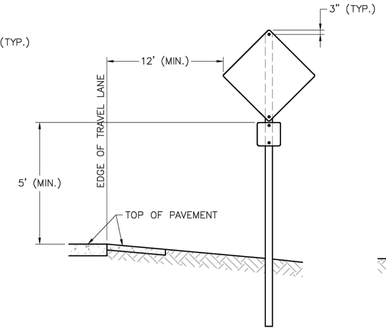
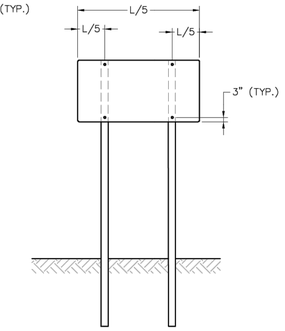


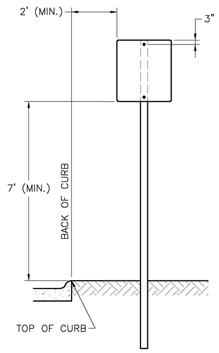
SIGN INSTALLATION FOR NON-CURBED STREET



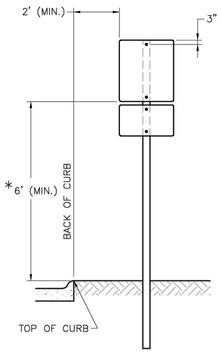
SIGN INSTALLATION WITH AUXILIARY SIGN FOR NON-CURBED STREET



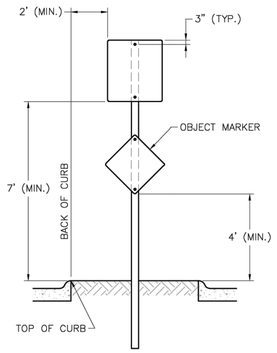
SIGN INSTALLATION WITH TWO SIGN POSTS



SIGN INSTALLATION FOR CURBED STREET



SIGN INSTALLATION WITH AUXILIARY SIGN FOR CURBED STREET

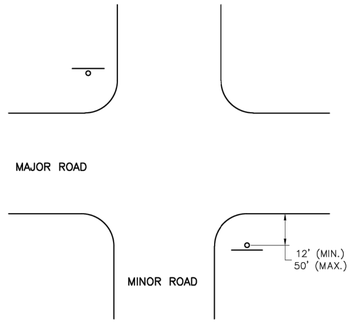


SIGN INSTALLATION FOR RAISED MEDIANS

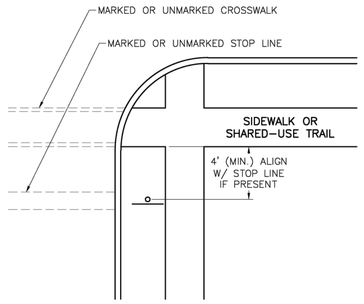
SIGN MOUNTING DETAILS

NOTES:

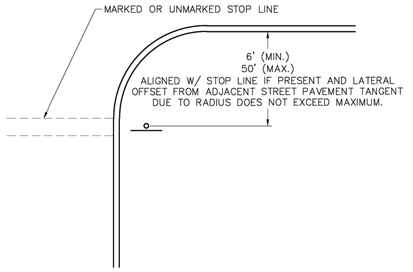
1. GENERALLY, THE SIGN MOUNTING HEIGHT SHOULD NOT BE MORE THAN 1' GREATER THAN THE MINIMUM MOUNTING HEIGHT.
2. *THE HEIGHT TO THE BOTTOM OF A SIGN WHEN IT IS LOCATED IN A PEDESTRIAN WALKWAY OR EXTENDS INTO A WALKWAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKWAY.



NON-CURBED INTERSECTION INSTALLATION

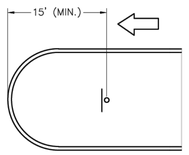


INTERSECTION WITH SIDEWALK/SHARED-USE TRAIL INSTALLATION



CURBED INTERSECTION INSTALLATION

CONTROL SIGN LOCATION



TYPICAL MEDIAN SIGN LOCATION

MEDIAN SIGN LOCATION

NOTES:

1. A 4" P.V.C. SLEEVE SHALL BE INSTALLED IN NEW CONCRETE MEDIANS AT EACH LOCATION WHERE A SIGN IS TO BE INSTALLED.
2. FOR EXISTING CONCRETE MEDIANS, A 4" HOLE SHALL BE CORED INTO THE CONCRETE.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project:
STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name:
SIGN MOUNTING DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-1

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE

MARKING AND SIGNAGE DETAIL 1 OF 3

C132

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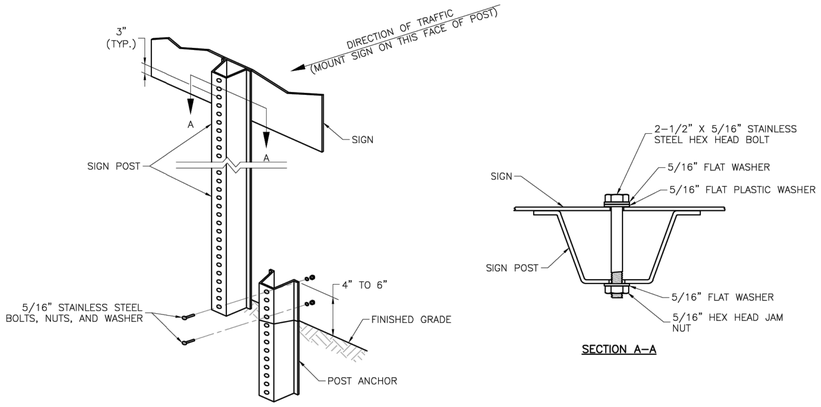


SECTION A–A

U–STEEL POST DETAILS

NOTES:

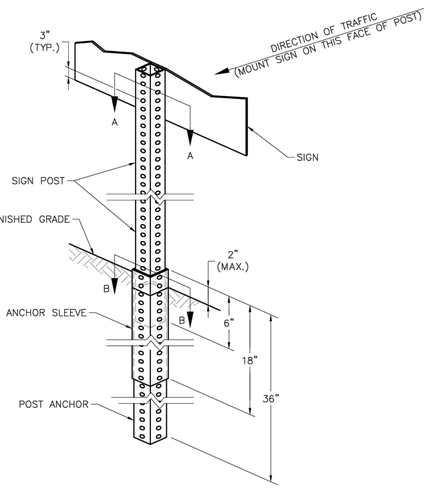
1. SPLICE SHALL BE POSITIONED ENTIRELY BETWEEN FINISHED GRADE LINE AND 18" ABOVE FINISHED GRADE LINE. ONLY ONE SPLICE WILL BE ALLOWED PER POST.
2. U–STEEL POST SHALL BE 3 LB./FT., GALVANIZED ACCORDING TO ASTM A123.
3. U–STEEL POST CAN BE USED FOR INSTALLATION OF SIGNS WITH AN AREA OF LESS THAN 2.5 SQUARE FEET.
4. ALL POSTS SHALL BE EMBEDDED A MINIMUM OF 3 FEET.

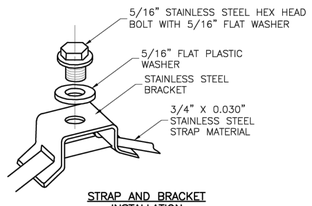
PERMANENT SIGNING GENERAL NOTES:

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY AND ALL UTILITIES WHEN INSTALLING SIGN POSTS, WHETHER THE UTILITY IS INDICATED ON THE PLANS OR NOT.
3. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF LEE'S SUMMIT.
4. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL SIGN POSTS TO BE INSTALLED. THE CITY INSPECTOR SHALL INSPECT THE STAKING PRIOR TO INSTALLATION. MINOR RELOCATION TO AVOID CONFLICTS MAY BE ALLOWED WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
5. SIGNS SHOWN TO BE INSTALLED ON THE SIDE OF METAL POLES SHALL BE MOUNTED WITH STAINLESS STEEL STRAPS OR WING BRACKETS AS DETAILED. NO SIGNS ARE TO BE INSTALLED ON WOOD POLES. SEE TRAFFIC SIGNAL STANDARD DRAWINGS FOR THE INSTALLATION OF SIGNS ON MAST ARMS.
6. ALL POST MOUNTED SIGNS SHALL BE INSTALLED WITH BREAKAWAY ANCHORS ACCORDING TO THE STANDARD DRAWINGS.
7. ALL EXISTING SIGNS WILL BE USED IN PLACE DURING CONSTRUCTION AND PROTECTED FROM DAMAGE UNLESS OTHERWISE INDICATED IN THE PLANS. IF THE CONTRACTOR DAMAGES ANY EXISTING SIGN OR POSTS DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO REPLACE THE DAMAGED MATERIALS WITH NEW SIGNS OR POSTS AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING ANY SIGNS THAT ARE TO BE REINSTALLED ON THE PROJECT. ALL EQUIPMENT SHALL BE REINSTALLED IN GOOD CONDITION.
8. EXISTING PERMANENT SIGNS AND POSTS REMOVED BY THE CONTRACTOR FOR CONSTRUCTION PURPOSES WHICH ARE NOT TO BE REINSTALLED SHALL BE DELIVERED TO THE CITY'S PUBLIC WORKS MAINTENANCE FACILITY (1971 SE HAMBLEN ROAD). THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND STORING EQUIPMENT IN GOOD CONDITION AND IS FULLY RESPONSIBLE FOR THE EQUIPMENT UNTIL IT IS DELIVERED.
9. ALL STOP, YIELD, OR STREET NAME SIGNS SHALL BE MAINTAINED IN A CONSPICUOUS LOCATION FOR THE DRIVING PUBLIC. ALL STOP AND YIELD SIGNS REMOVED FOR CONSTRUCTION PURPOSES CAN BE TEMPORARILY ERECTED IN REFLECTORIZED DRUMS (NO LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE) UNTIL THEY CAN BE REINSTALLED. ANY TEMPORARY STOP OR YIELD SIGN INSTALLATION TO BE LEFT IN PLACE OVERNIGHT WILL REQUIRE PRIOR APPROVAL FROM THE CITY INSPECTOR.

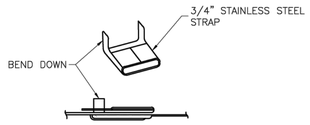
SQUARE STEEL POST INSTALLATION SEQUENCE:

1. SIGN POST ANCHOR DRIVEN PARTIALLY INTO THE GROUND USING A DRIVE CAP WITH A SLEDGE OR POWER EQUIPMENT.
2. ANCHOR SLEEVE SLIPPED OVER ANCHOR AND DRIVE INTO THE GROUND TOGETHER WITH THE SIGN POST ANCHOR.
3. INSERT SIGN POST INTO THE POST ANCHOR AND BOLT IN PLACE.





STRAP AND BRACKET INSTALLATION

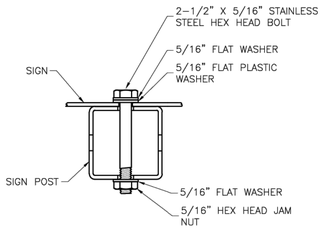


ENDS OF STRAP CLAMPED IN SEAL

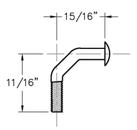
STRAP TYPE SIGN SUPPORT DETAILS

NOTES:

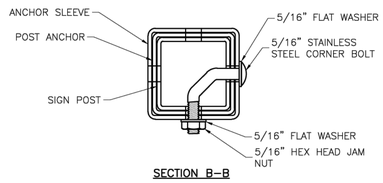
1. SIGNS ON METAL POLES SHALL BE ATTACHED WITH TWO BRACKETS AND STAINLESS STEEL BANDS.
2. HOLES IN SIGN FOR ATTACHMENT TO THE MOUNTING BRACKETS SHALL BE OFFSET A MINIMUM OF 2 INCHES FROM THE EDGE OF THE SIGN.
3. HOLES IN SIGN SHALL BE LOCATED SUCH THAT THE SIGN IS LEVEL.
4. ALL STRAP, BRACKET, AND SEAL MATERIALS SHOULD BE TYPE 201 STAINLESS STEEL.



SECTION A–A



CORNER BOLT



SECTION B–B

SQUARE STEEL POST DETAILS

NOTES:

1. SQUARE STEEL SIGN POSTS AND BREAK–AWAY ANCHOR SHALL CONSIST OF THE FOLLOWING MATERIALS:
   SIGN POST – 14 GA. 2" X 2" SQUARE STEEL POST
   POST ANCHOR – 12 GA. 2 ¼" X 2 ¼" X 36" SQUARE STEEL POST
   ANCHOR SLEEVE – 12 GA. 2 ½" X 2 ½" X 18" SQUARE STEEL POST
2. 14 GA. POSTS MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. IN ALL INSTALLATIONS THE FIRST HOLE ABOVE THE FINISHED GRADE LINE ON THE SIGN POST, ANCHOR, AND ANCHOR SLEEVE MUST BE IN LINE FOR THE INSERTION OF THE CORNER BOLT.
4. THE MAXIMUM AREA FOR ONE SIGN POST IS 9.0 SQUARE FEET. A SIGN OR COMBINATION OF SIGNS WITH AN AREA GREATER THAN 9.0 SQUARE FEET WILL REQUIRE TWO POSTS. ALSO, SIGNS WITH A WIDTH GREATER THAN OR EQUAL TO 48" (NOT INCLUDING 36" X 36" DIAMOND SHAPED SIGNS) WILL REQUIRE TWO POSTS.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: POST DETAILS

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

SN-2

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KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

STATE OF MISSOURI
GERALD BOLLINGER
Gerald T Bollinger
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 17932172
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
APPROVED BY: BB

SHEET TITLE
MARKING AND SIGNAGE DETAIL 2 OF 3

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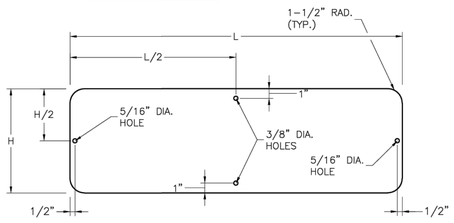
STANDARD ABBREVIATION LISTS

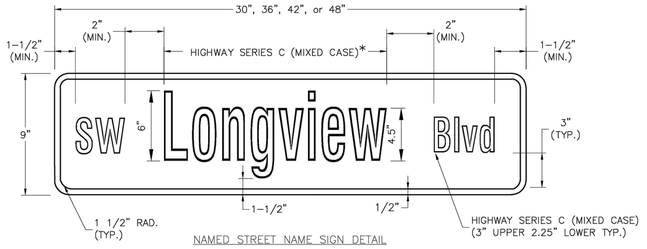
NAMED STREETS	
AVENUE	Ave
BOULEVARD	Blvd
CIRCLE	Cir
CREEK	Cr
COURT	Ct
CROSSING	Xing
DRIVE	Dr
HIGHWAY	Hwy
LANE	Ln
PARKWAY	Pkwy
PLACE	Pl
ROAD	Rd
STREET	St
TERRACE	Ter
TRAIL	Trl
WAY	Way

NUMBERED STREETS	
FIRST	ST
SECOND	ND
THIRD	RD
FOURTH TO TENTH	TH



STREET NAME SIGN BLANK DETAILS

FOR MOUNTING ON SQUARE STEEL POSTS

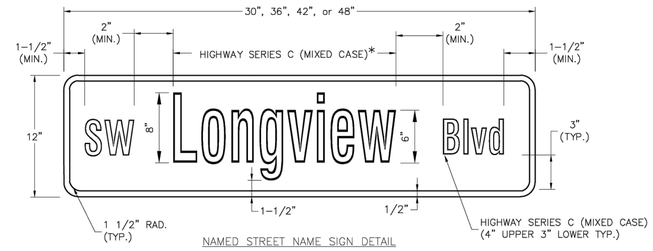


NAMED STREET NAME SIGN DETAIL

* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH

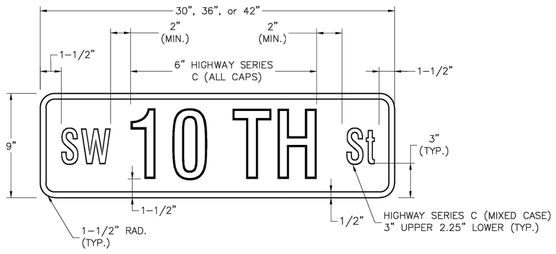


NAMED STREET NAME SIGN DETAIL

* USE HIGHWAY SERIES B (MIXED CASE) IN LIEU OF SERIES C IF NECESSARY TO FIT TEXT ON A 36" SIGN BLANK.

STREET NAME SIGN FACE DETAILS

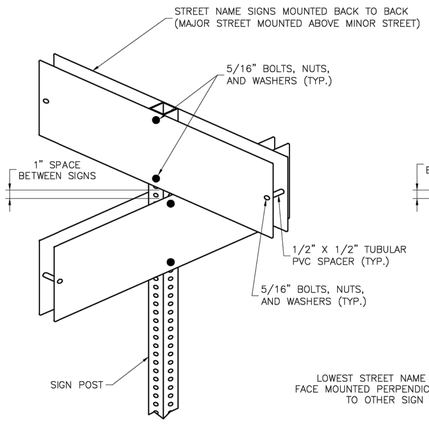
POST MOUNTED MULTI-LANE GREATER THAN 40 MPH



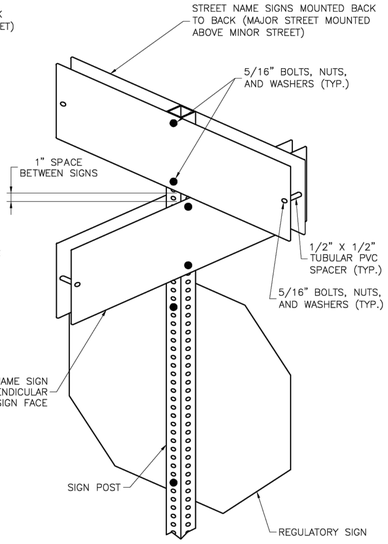
NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

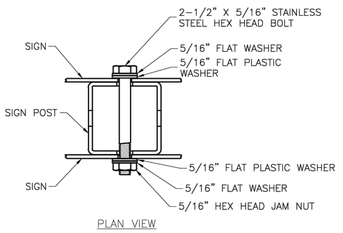
POST MOUNTED 2-LANE ALL SPEEDS AND MULTI-LANE UNDER 40 MPH



SIGNS INSTALLED SEPARATELY

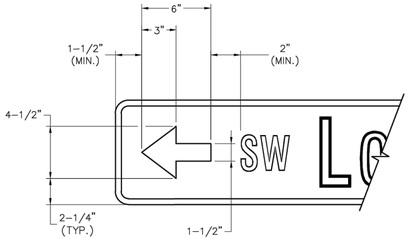


SIGNS INSTALLED WITH OTHER SIGNS

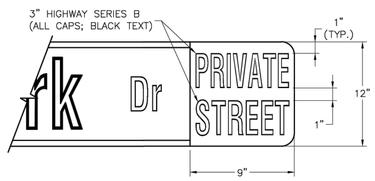


PLAN VIEW

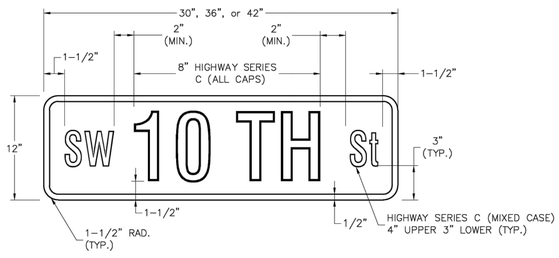
SQUARE STEEL POST MOUNTING DETAILS



ARROW DETAIL



PRIVATE STREET TAG DETAIL



NUMBERED STREET NAME SIGN DETAIL

STREET NAME SIGN FACE DETAILS

POST MOUNTED MULTI-LANE GREATER THAN 40 MPH

NOTES:

1. FOR ALL STREET NAME SIGNS, THE LEGEND SHALL BE WHITE AND THE BACKGROUND SHALL BE GREEN.
2. ARROWS SHALL BE ADDED TO STREET NAME SIGNS WHERE THE NAME OF A STREET CHANGES AT AN INTERSECTION. STREET NAME SIGNS WITH ARROWS ARE TO BE INSTALLED ON EACH SIDE OF THE INTERSECTION TO INDICATE THE CHANGE IN NAMES. ARROWS SHALL BE WHITE.
3. THE "PRIVATE STREET" TAG SHOULD BE ADDED TO THE END OF STREET NAME SIGNS TO INDICATE WHERE A STREET THAT IS OUTSIDE THE RIGHT-OF-WAY INTERSECTS A PUBLIC STREET. THE BACKGROUND FOR THE "PRIVATE STREET" TAG SHALL BE YELLOW.
4. MULTI-LANE IS DEFINED AS HAVING 2 LANES OR MORE IN EACH DIRECTION, EXCLUDING TURN LANES.
5. OVERHEAD SIGN DETAILS MAY BE FOUND ON THE SIGNAL HEAD MOUNTING DETAIL.

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LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

KANSAS CITY - LEE'S SUMMIT REGIONAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PROJECT NO. - 17932172

Project: STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO

Sheet Name: STREET NAME SIGN DETAILS

STATE OF MISSOURI
GERALD BOLLINGER
NUMBER PE-2021009173
PROFESSIONAL ENGINEER

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

Drawn By: BWC
Checked By: MP
Date: 01/2020
Proj. #:

PROJECT NO: 17932172
CAD DWG FILE: MARKING AND SIGNAGE DETAIL SHEET
DESIGNED BY: WLC
DRAWN BY: WLC
CHECKED BY: PHN
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SHEET TITLE

MARKING AND SIGNAGE DETAIL 3 OF 3

SN-3

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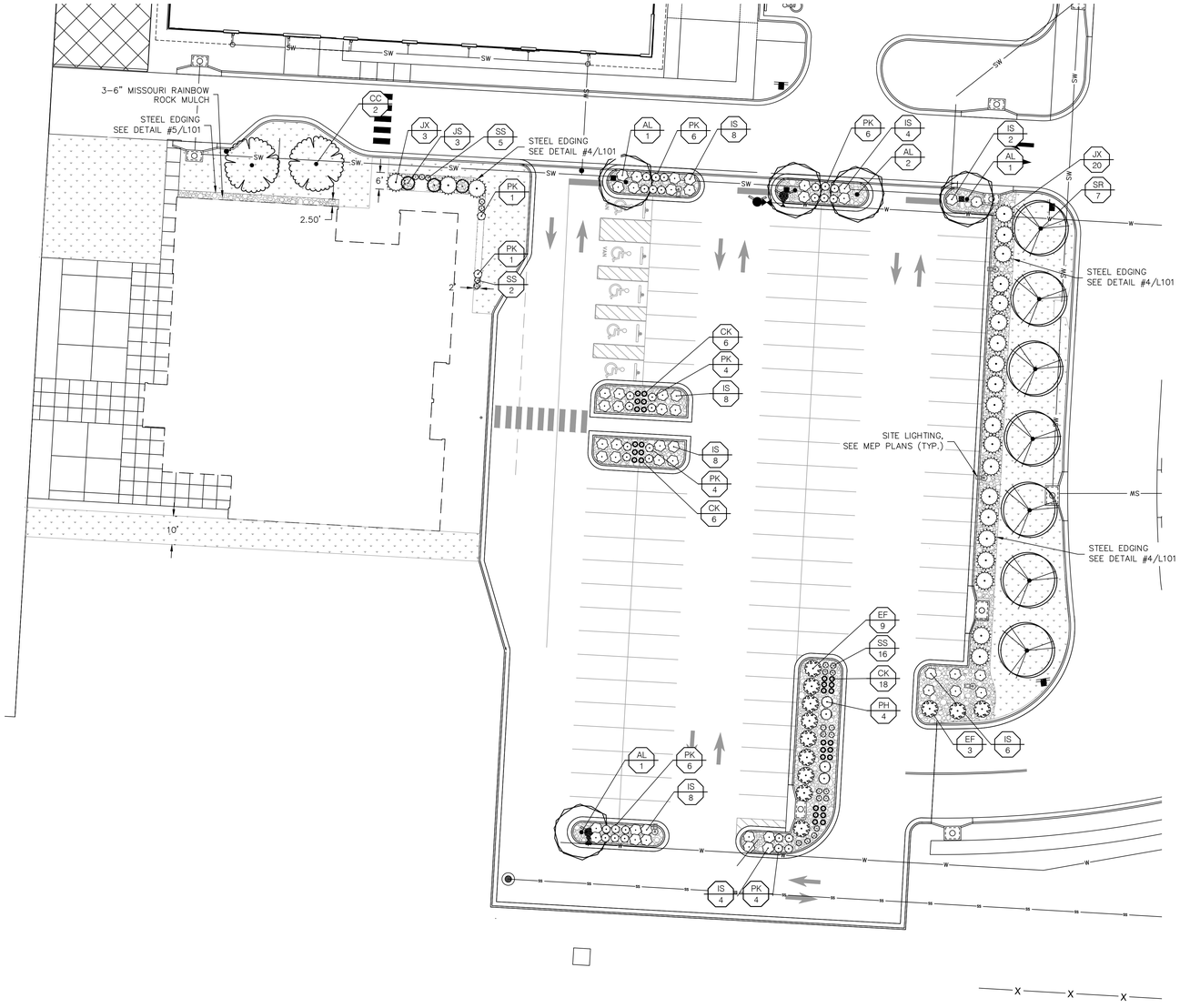


PLANT SCHEDULE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER
TREES					
	AL	5	ACER GINNALA 'BERGIANA FLAME' BERGIANA FLAME AMUR MAPLE	3" CAL	B&B
	CC	2	CORNUS FLORIDA 'CHEROKEE BRAVE' CHEROKEE BRAVE DOGWOOD	2" CAL	B&B
	JS	3	JUNIPERUS CHINENSIS 'SPARTAN' SPARTAN JUNIPER	6`-8` HT	B&B
	SR	7	SYRINGA RETICULATA JAPANESE TREE LILAC	3" CAL	B&B
SYMBOL	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**SIZE**	**CONDITION**
SHRUBS					
	EF	12	EUONYMUS FORTUNEI WINTERCREEPER	3 GAL	
	IS	46	ILEX GLABRA `ILEXFARROWTRACEY` STRONGBOX® INKBERRY HOLLY	3 GAL	
	JX	23	JUNIPERUS X 'GREY OWL' GREY OWL JUNIPER	3 GAL	
	PK	32	PHYSOCARPUS OPULIFOLIUS 'SMPOTW' TINY WINE TINY WINE NINEBARK	3 GAL	
GRASSES					
	CK	30	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' KARL FOERSTER FEATHER REED GRASS	2 GAL	
	PH	4	PANICUM VIRGATUM 'HEAVY METAL' HEAVY METAL SWITCH GRASS	2 GAL	
	SS	23	SCHIZACHYRIUM SCOPARIUM 'THE BLUES' THE BLUES LITTLE BLUESTEM	2 GAL	
GROUND COVERS					
	MR	4,622 SF	3 - 6" MISSOURI RAINBOW ROCK	N/A	
	TS	11,853 SF	TURF SOD DROUGHT TOLERANT FESCUE BLEND	SOD	

NOTES:

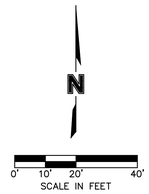
1. ALL DISTURBED AREA NOT OTHERWISE SPECIFIED WITH GROUNDCOVER SHALL BE PLANTED WITH TURF SEED – DROUGHT TOLERANT DWARF FESCUE BLEND.
2. PLANTING BEDS AND TREE PLANTING AREAS SHALL RECEIVE MISSOURI RAINBOW ROCK AT A DEPTH OF 3" WITH SHOVEL–CUT EDGE OR V–TRENCH STEEL EDGING AS CALLED OUT ON PLAN.
3. AREAS OF TURF SEED PLANTED ON SLOPES EXCEEDING 4:1 (SEE GRADING PLANS) SHALL BE INSTALLED WITH AN EROSION CONTROL MEASURERS PER MANUFACTURER'S SPECIFICATIONS.
4. QUANTITIES LISTED IN THE PLANT LIST SCHEDULE ARE FOR ESTIMATES ONLY. TREES, SHRUBS, AND GROUND COVER OF CONTRACT QUANTITIES SHALL BE THE NUMBER OF ITEMS SHOWN ON THE DRAWINGS.
5. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ANY DIFFERENCE IN QUANTITIES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
6. CONTRACTOR SHALL REFER TO ENGINEERING DRAWINGS FOR ANY AND ALL EXISTING AND/OR PROPOSED UTILITIES. IF THERE ARE ANY DISCREPANCIES, CONFLICTS AND/OR DEVIATIONS BETWEEN THE LANDSCAPE DRAWINGS AND THE EXISTING OR PROPOSED CONDITIONS, THE CONTRACTOR IS TO CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.
7. ALL UNDERGROUND UTILITIES ARE TO BE FIELD–VERIFIED PRIOR TO COMMENCEMENT OF WORK.
8. LANDSCAPE CONTRACTOR SHALL SUBMIT SPECIFICATIONS OF SEED, SOIL, AND MULCH, AND REPRESENTATIVE PHOTOS OF TREES AND SHRUBS, TO LANDSCAPE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK. SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT.
9. INSTALLATION OF LANDSCAPING SHALL TAKE PLACE DURING EITHER THE SPRING (MARCH 15 – JUNE 15) OR FALL (SEPTEMBER 15–DECEMBER 1) PLANTING SEASON AND WITH WATER AVAILABLE FOR IRRIGATION PURPOSES.
10. IF UNDERGROUND OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING OF TREES OR SHRUBS, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY. NEW LOCATIONS MAY BE SELECTED BY LANDSCAPE ARCHITECT OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTIONS. PROCEED WITH WORK ONLY AFTER APPROVAL OF LANDSCAPE ARCHITECT.
11. LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
12. A PRE–EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
13. AMEND SOIL IN PLANTING BEDS TO A DEPTH OF 12 INCHES USING A 1:1 MIX OF ON–SITE SOIL AND ORGANIC–RICH COMPOST. ENSURE THOROUGH MIXING FOR OPTIMAL NUTRIENT DISTRIBUTION AND SOIL STRUCTURE IMPROVEMENT.
14. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING AND GENERAL HEALTH OF ALL PLANT MATERIALS UNTIL FINAL ACCEPTANCE. ANY MATERIAL WHICH DIES PRIOR TO ACCEPTANCE OF WORK SHALL BE PROMPTLY REMOVED AND REPLACED.
15. LANDSCAPE BEDS SHALL BE FREE OF WEEDS AND VOLUNTEER PLANT MATERIAL.
16. LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. CONTRACTOR WILL MAKE ALL REPLACEMENTS PROMPTLY UNDER THIS GUARANTEE (AS PER DIRECTION OF OWNER).

LEE'S SUMMIT AIRPORT TERMINAL- LANDSCAPE CALCULATIONS

BUILDING COVERAGE (SF)	PARKING SPACES	LANDSCAPE ISLANDS AREA (SF)	PARKING LOT AREA (SF)	PARKING AREA LANDSCAPE ISLAND % (5% MIN.)	R/W LENGTH (LF)		(1) LANDSCAPE STRIP BETWEEN PARKING/LOADING AREA AND R/W	(1) STREET FRONTAGE TREES	(2) STREET FRONTAGE SHRUBS	(3) OPEN YARD AREA PROVIDED (SF)	(3A) OPEN YARD AREA TREES	(3B) OPEN YARD AREA SHRUBS	(4A) BUFFER TREES: DECIDUOUS / ORNAMENTAL / EVERGREEN	(4B) BUFFER SHRUBS	(5) PARKING LOT SCREENING SHRUBS
11,000	107	2,927	31,845	9.19%	N/A	REQUIRE	N/A	N/A	N/A	14,259	3	6	N/A	N/A	14
						PROVIDE	N/A	N/A	N/A		3+	6+	N/A	N/A	14+

LANDSCAPE REQUIREMENTS DESCRIPTIONS

(1) ANY PARKING OR LOADING AREA VISIBLE FROM A STREET SHALL BE SEPARATED FROM THE STREET RIGHT-OF-WAY WITH A LANDSCAPE STRIP AT LEAST 20' WIDE, PLANTED WITH 1 TREE PER 30 LF OF STREET
(2) ANY PARKING OF LOADING AREA LANDSCAPE STRIP SHALLL BE PLANTED WITH ONE (1) SHRUB FOR EVERY 20 LF OF STREET FRONTAGE.
(3A) IN ADDITION TO STREET FRONTAGE TREES, ONE (1) TREE SHALL BE PROVIDED FOR EVERY 5,000 SF OF OPEN YARD AREA
(3B) OPEN YARD AREAS SHALL BE LANDSCAPED WITH TWO (2) SHRUBS PER 5,000 SF OF TOTAL LOT AREA.
(4) A 20' WIDE BUFFER SCREEN SHALL BE PROVIDED PER PLAN, IN THE FORM OF (4A) 1 SHADE TREE PER 1,000 SF; 1 ORNAMENTAL TREE PER 500 SF; 1 EVERGREEN TREE PER 500; AND (4B) 1 SHRUB PER 500 SF
(5) A HEDGE CONSISTING OF AT LEAST 12 SHRUBS PER 40 LINEAR FEET



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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

10/22/2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

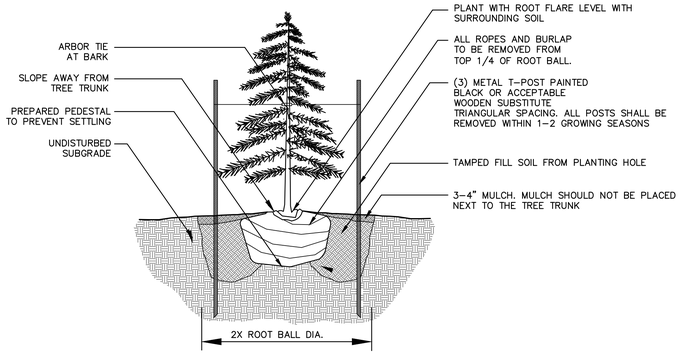
MARK	DATE	DESCRIPTION

PROJECT NO:	024-05133
CAD DWG FILE:	Lee's Summit - Hangar 2.DWG
DESIGNED BY:	QEM
DRAWN BY:	QEM
CHECKED BY:	JIH
APPROVED BY:	JIH

SHEET TITLE

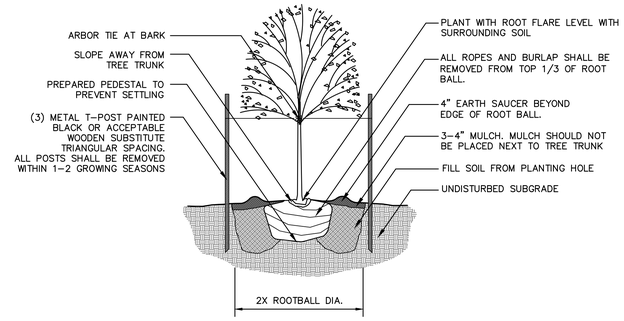
LANDSCAPE PLAN

L100



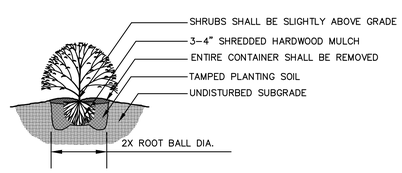
NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

1 Evergreen Tree Planting Detail
not to scale



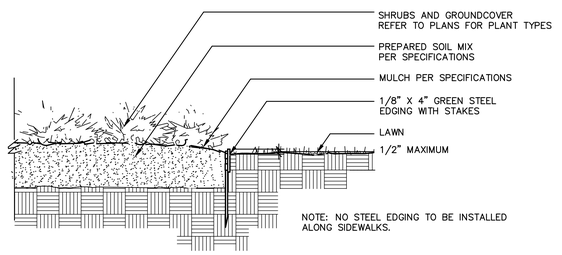
NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH

2 Deciduous Tree Planting Detail
not to scale

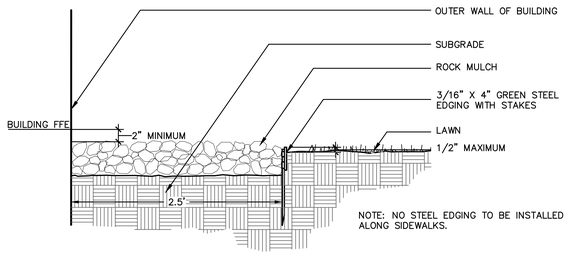


NOTES:
1. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH ANLA STANDARDS
2. PRUNE DAMAGED LIMBS OR ROOTS AFTER INSTALLATION
3. MAKE SURE ROOTS DO NOT DRY OUT DURING INSTALLATION
4. SOAK GENEROUSLY TO COMPACT AND SETTLE

3 Shrub Planting Detail
not to scale



4 Steel Edging Detail
not to scale



5 Steel Edging @ Rock Mow Strip
not to scale

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
JACOB HODSON
NUMBER A-2022029256
PROFESSIONAL LANDSCAPE ARCHITECT
10/22/24

10/22/2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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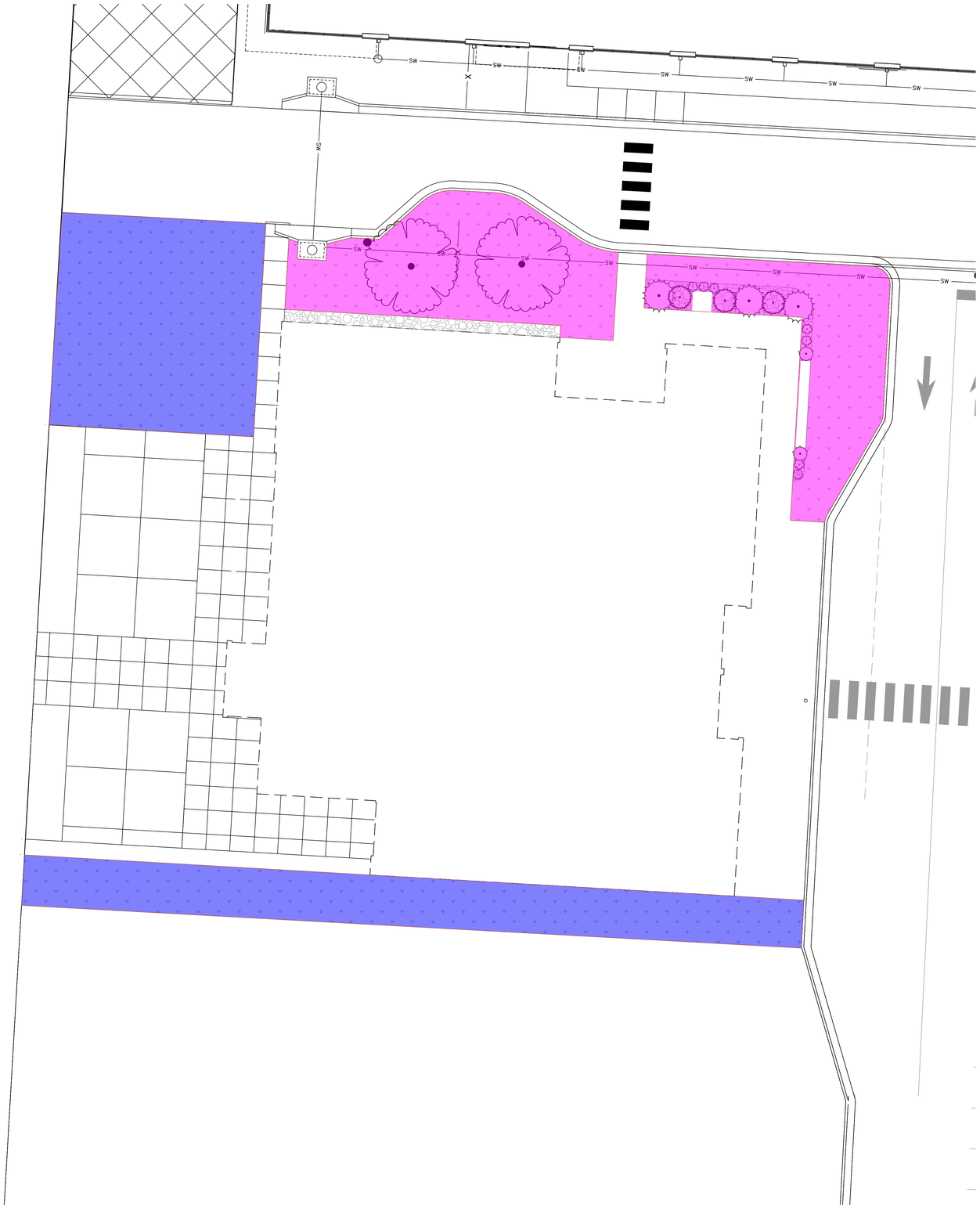
SHEET TITLE

LANDSCAPE DETAILS

L101



ROTOR AREA

ROTARY AREA

NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE TRUE TO TYPE, FORM, FINISH AND OF THE HIGHEST STANDARDS OF THE TRADE. DAMAGED OR INFERIOR MATERIALS SHALL BE REMOVED FROM THE SITE WITHOUT DELAY. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL AND EQUIPMENT PERTAINING TO THE IRRIGATION SYSTEM. THIS SHALL INCLUDE ALL ITEMS OF A MINOR NATURE NECESSARY TO COMPLETE INSTALLATION.
2. IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED, THEN THE CONTRACTOR SHALL INSTALL AS PER MANUFACTURERS SPECIFICATIONS. IF A CONTRADICTION OCCURS, NOTIFY THE LANDSCAPE
4. MANUAL GATE VALVES SHALL BE PORTED TO PROVIDE FOR FULL FLOW. GATE VALVES SHALL BE THE SAME SIZE AS THE MAINLINE AND LABELED PER SPECIFICATIONS.
5. WINTERIZATION: A MANUAL DRAIN VALVE IS TO BE INSTALLED AT THE END OF THE LINES AND LOW POINTS OF IRRIGATION PIPING. PRIOR TO FIRST FREEZE, SHUT OFF IRRIGATION WATER SUPPLY AND OPEN MANUAL DRAIN VALVES. REMEMBER TO CLOSE VALVES ONCE WATER HAS DRAINED.
6. ALL VALVES ARE TO INCLUDE FACTORY INSTALLED DC LATCHING SOLENOIDS AND DECODERS FOR THIS TWO-WIRE SYSTEM.
7. CONTRACTOR TO REDUCE THROW OF HEADS NO MORE THAN 25% TO ELIMINATE OVERTHROW ON WALKWAYS.
8. SUBMIT IRRIGATION DESIGN SHOP DRAWING TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

N

0' 5' 10' 20'
SCALE IN FEET

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
JACOB HODSON
NUMBER A-2022023724
PROFESSIONAL LANDSCAPE ARCHITECT

10/22/2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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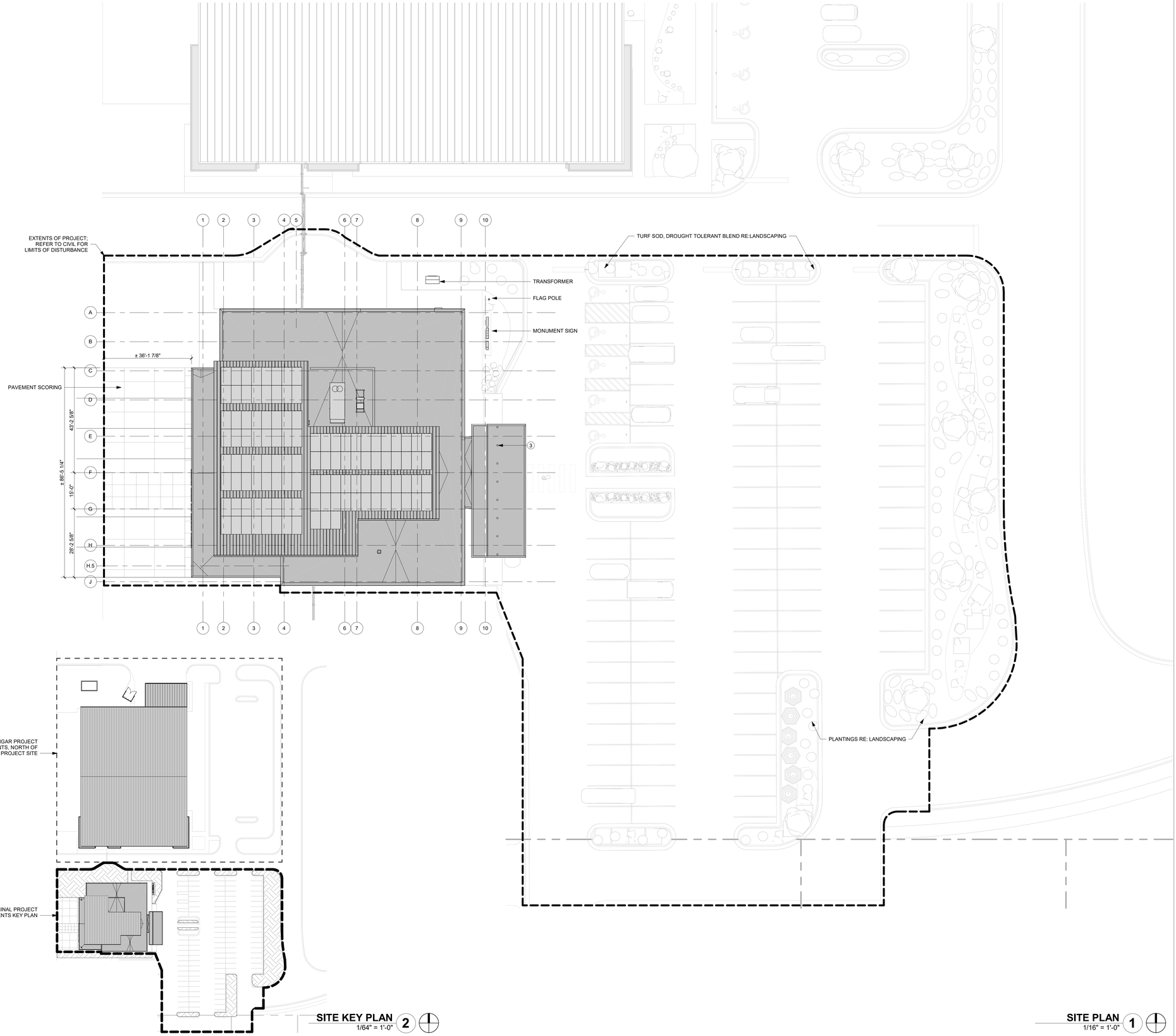
IRRIGATION AREA PLAN

L102



SITE KEY PLAN 2
1/64" = 1'-0"

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

PLAN NOTES

Ⓧ	LIST APPLIES TO
3	DECORATIVE BOLLARD WITH INTEGRAL LIGHTING

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LEE'S SUMMIT, MISSOURI

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Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000787 -
STATE OF MISSOURI
JULIE BLACK WELLNER
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
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SITE PLAN

A-100

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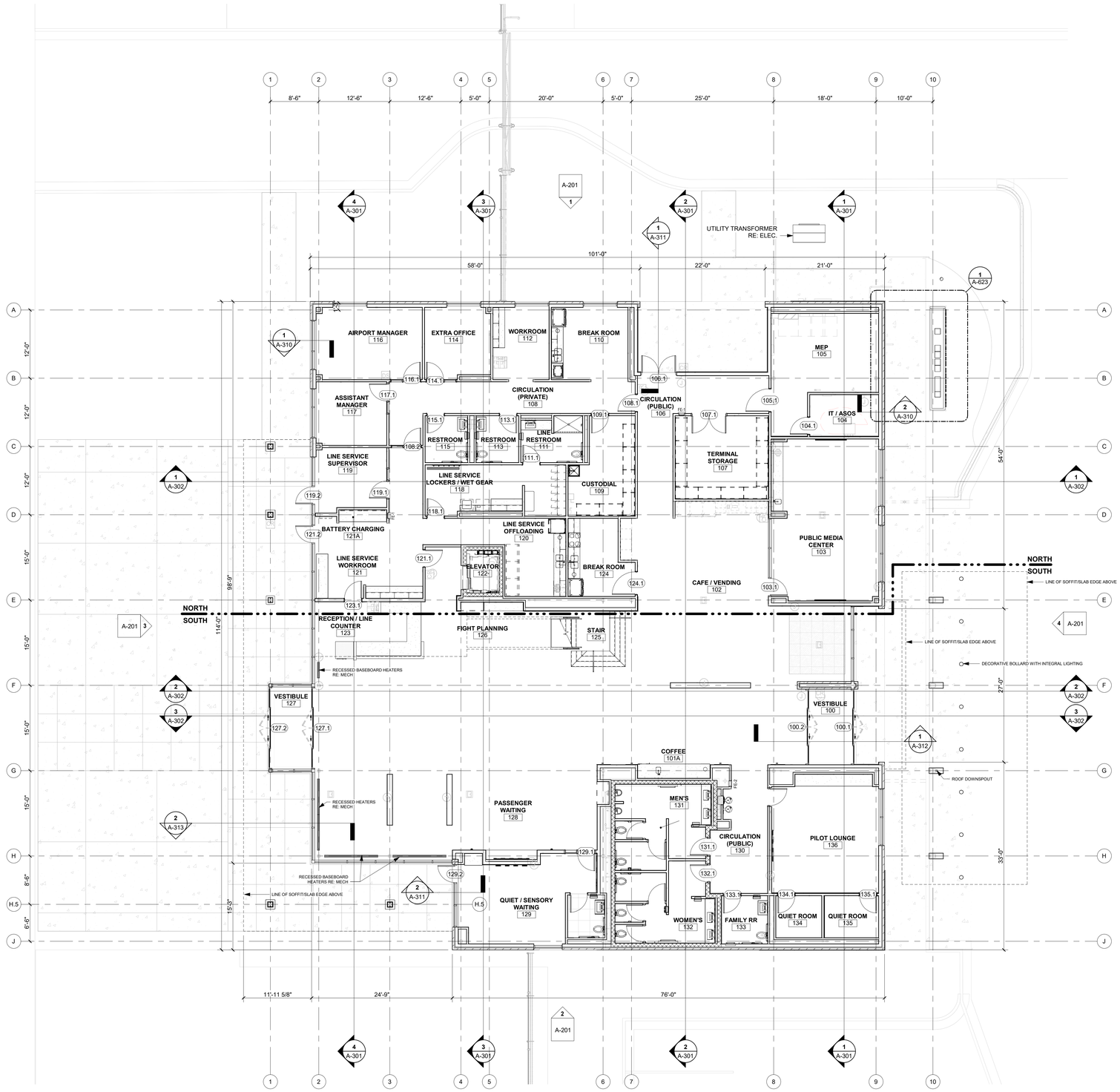

1ST FLOOR PLAN 1
1/8" = 1'-0"

11/27/2024 9:17:42 AM

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LEE'S SUMMIT, MISSOURI

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CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT

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LEES SUMMIT, MO

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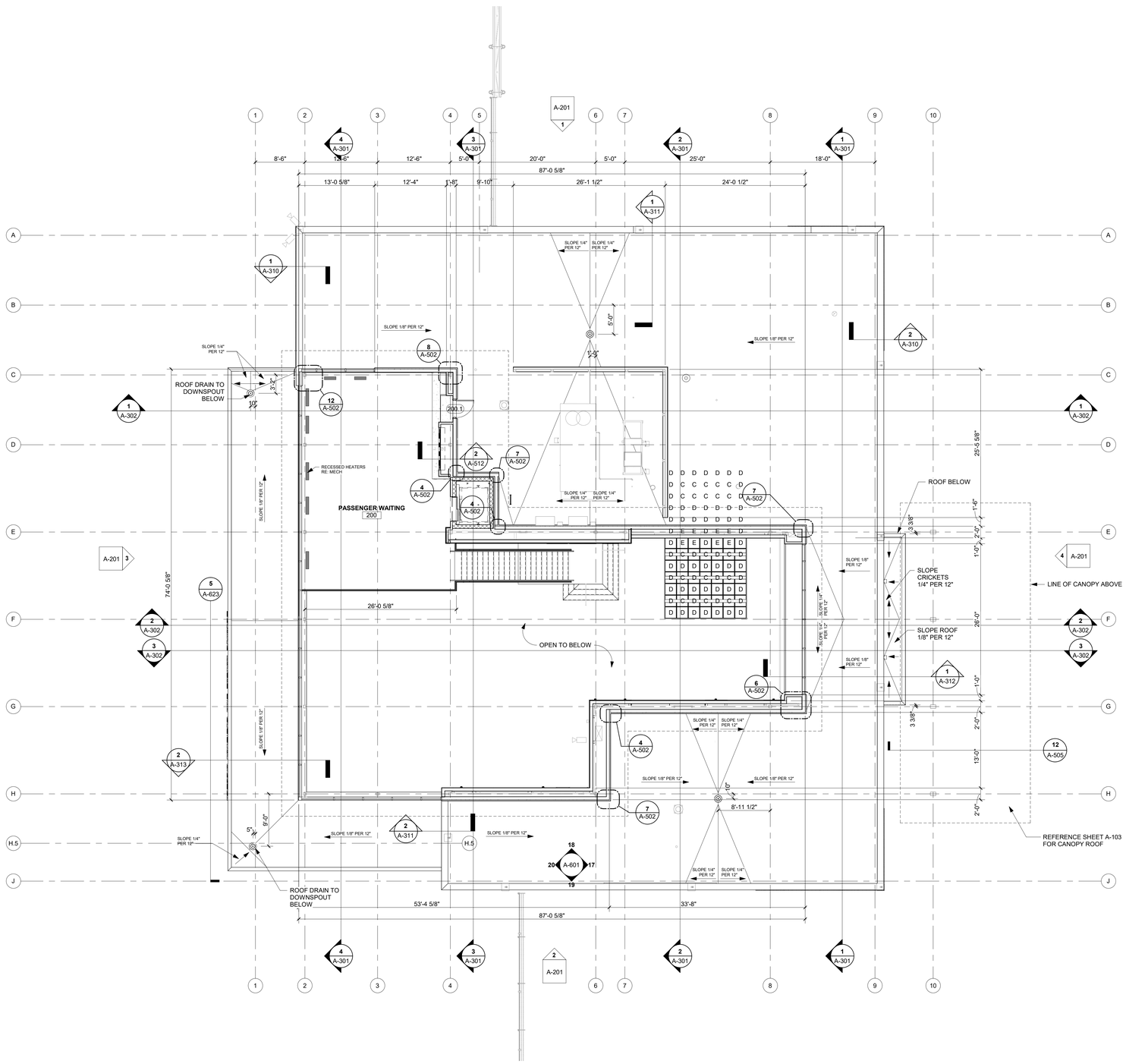
1ST FLOOR PLAN

A-101
SHEET OF



MEZZANINE AND LOW ROOF PLAN 1
1/8" = 1'-0"

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LEES SUMMIT, MO

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APPROVED BY:	Approver

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MEZZANINE AND LOW ROOF PLAN

A-102

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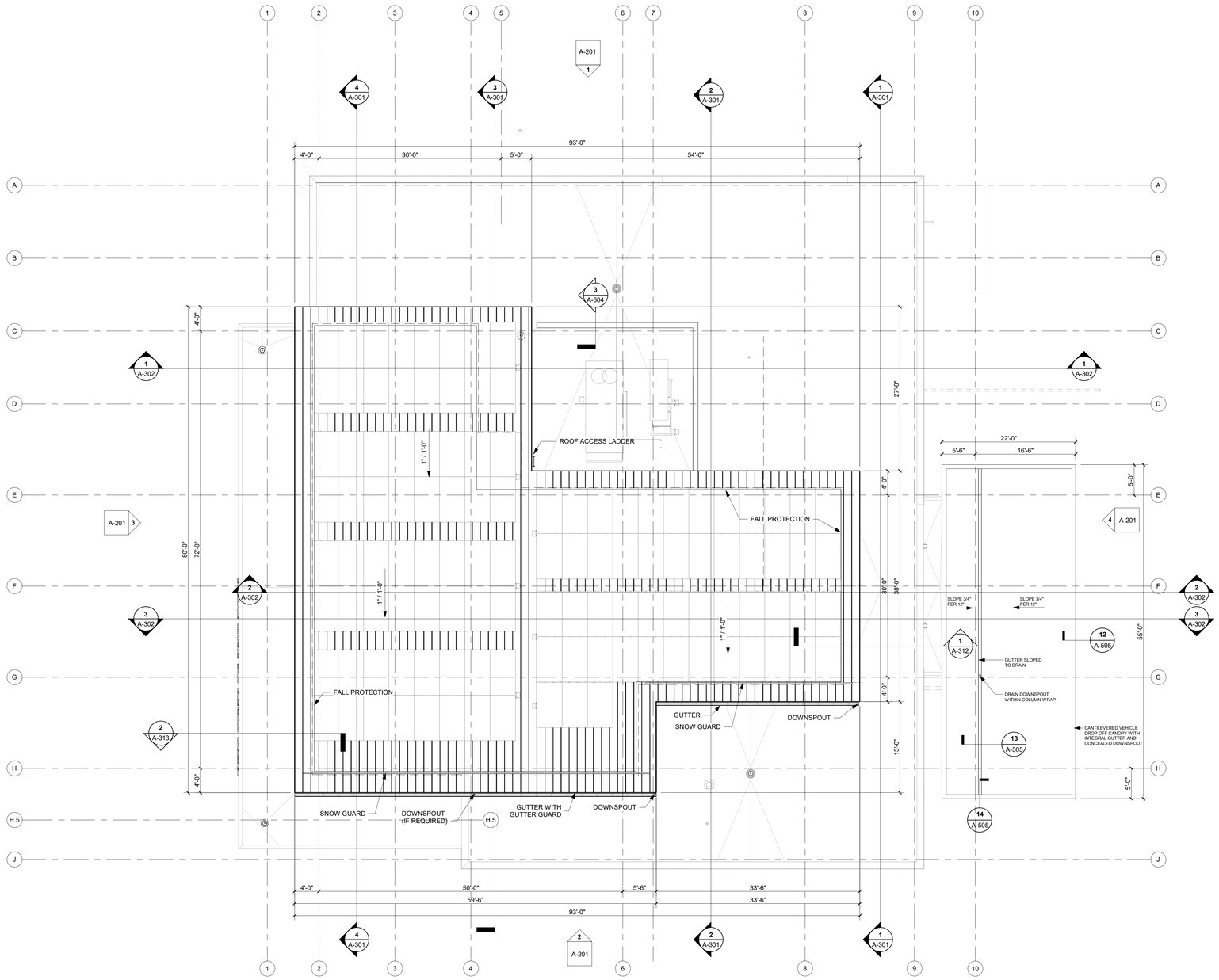

HIGH ROOF PLAN
1/8" = 1'-0" 1

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LEES SUMMIT, MO

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SHEET TITLE

HIGH ROOF PLAN

A-103

SHEET OF

REFLECTED CEILING PLAN GENERAL NOTES:

1. ARCHITECTURAL CEILING PLANS INDICATE DIMENSIONING AND PLACEMENT OF VARIOUS CEILING MOUNTED DEVICES. REFER TO MEP DRAWINGS AND SPECIFICATIONS FOR ALL OTHER INFORMATION FOR MEP SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE SUPPRESSION, FIRE ALARM DEVICES, SECURITY DEVICES, EXIT DEVICES, DIFFUSERS, LIGHTING, LIGHTING CONTROL DEVICES, AND ACCESS PANELS.
2. CEILING HEIGHTS ARE SHOWN TO HEIGHT ABOVE FINISH FLOOR.
3. ALL CEILING GRIDS TO BE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.
4. ALL LIGHTS, SPEAKERS, SPRINKLERS, SIGNAGE, STROBES AND OTHER HARDWARE INSTALLED IN TILED CEILING SYSTEMS TO BE CENTERED IN TILES IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE.
5. ALIGN ALL CEILING MOUNTED DEVICES.
6. CEILING MOUNTED EXIT SIGNS TO BE CENTERED WITHIN DOOR FRAME OR OPENING. MOUNT 4" OFF FACE OF WALL.
7. ALL SPRINKLERS, JUNCTION BOXES & SMOKE DETECTORS TO ALIGN WITH ADJACENT LIGHT FIXTURES, UNLESS NOTED OTHERWISE.
8. COORDINATE LOCATIONS OF CEILING ACCESS PANELS WITH THE FINAL LOCATIONS OF MECHANICAL EQUIPMENT AS REQUIRED TO SERVICE EQUIPMENT AND TO PROVIDE ACCESS TO ALL ABOVE CEILING EQUIPMENT.
9. AT CONTINUOUS RUNS OF GYPSUM BOARD ASSEMBLIES, PROVIDE CONTROL JOINTS AT A MAXIMUM OF (1) PER 50 FEET, NOT TO EXCEED INDIVIDUAL AREAS OF 2,500 SQUARE FEET.
10. MOISTURE RESISTANT GYPSUM BOARD SHALL BE USED IN SOFFITS AND CEILINGS OF RESTROOMS, LOCKER ROOMS, SHOWERS AND OTHER WET AREAS.

RCP LEGEND

- APC-1 - ACOUSTICAL CEILING PANEL
- GYP - GYP BOARD FINISH
- APC-3 - PRE FINISHED LINEAR METAL CEILING PLANKS
- APC - PRE-FINISHED LINEAR METAL CEILING PLANKS, A COMBINATION OF APC-2 + APC-4

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767 - STATE OF MISSOURI JULIE BLACK WELLNER NUMBER A-5006 REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
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APPROVED BY:	Approver

SHEET TITLE

REFLECTED CEILING PLAN, LOW

A-121

SHEET OF

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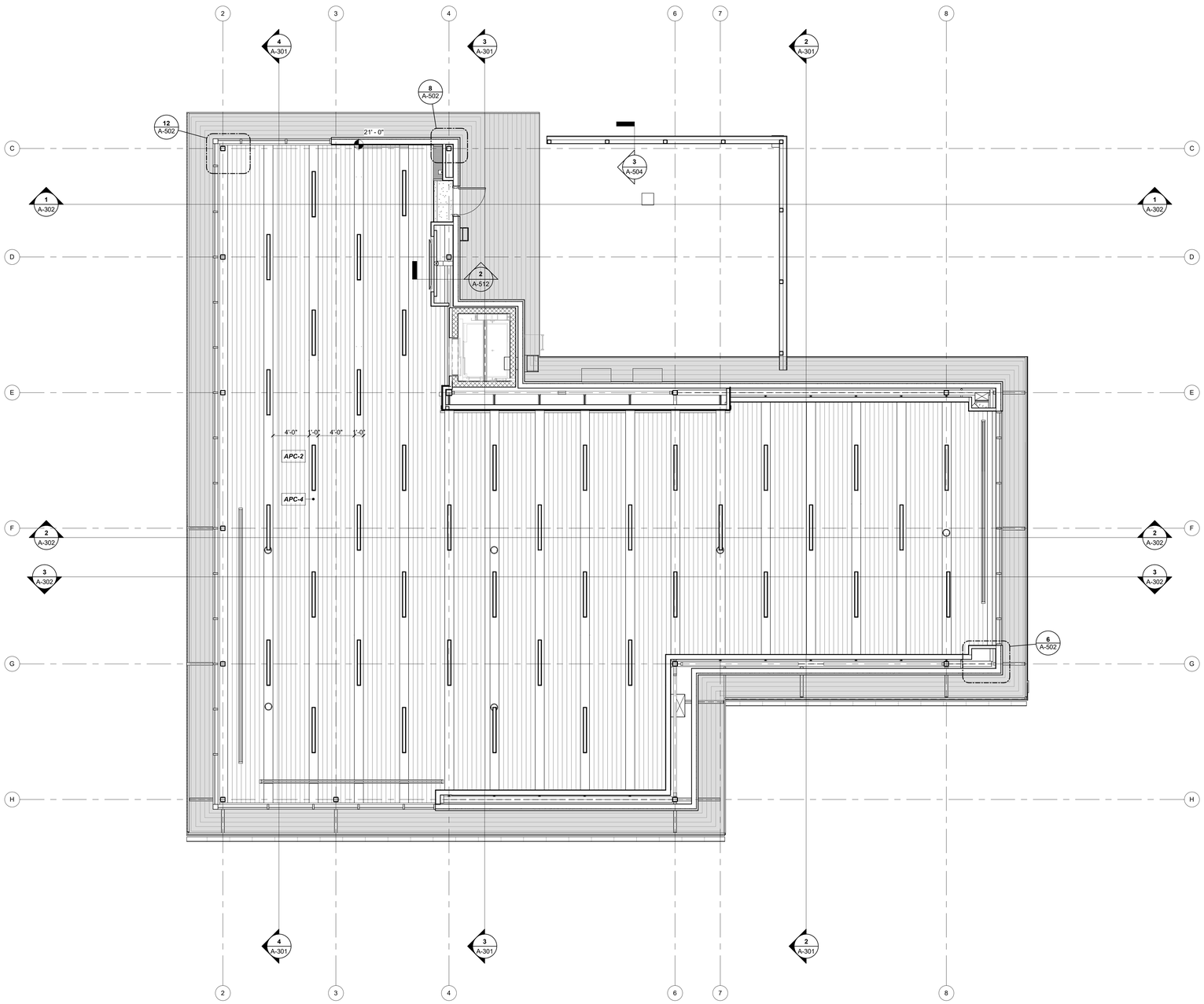

HIGH REFLECTED CEILING PLAN 1
3/16" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

1. ARCHITECTURAL CEILING PLANS INDICATE DIMENSIONING AND PLACEMENT OF VARIOUS CEILING MOUNTED DEVICES. REFER TO MEP DRAWINGS AND SPECIFICATIONS FOR ALL OTHER INFORMATION FOR MEP SYSTEMS INCLUDING BUT NOT LIMITED TO FIRE SUPPRESSION, FIRE ALARM DEVICES, SECURITY DEVICES, EXIT DEVICES, DIFFUSERS, LIGHTING, LIGHTING CONTROL DEVICES, AND ACCESS PANELS.
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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

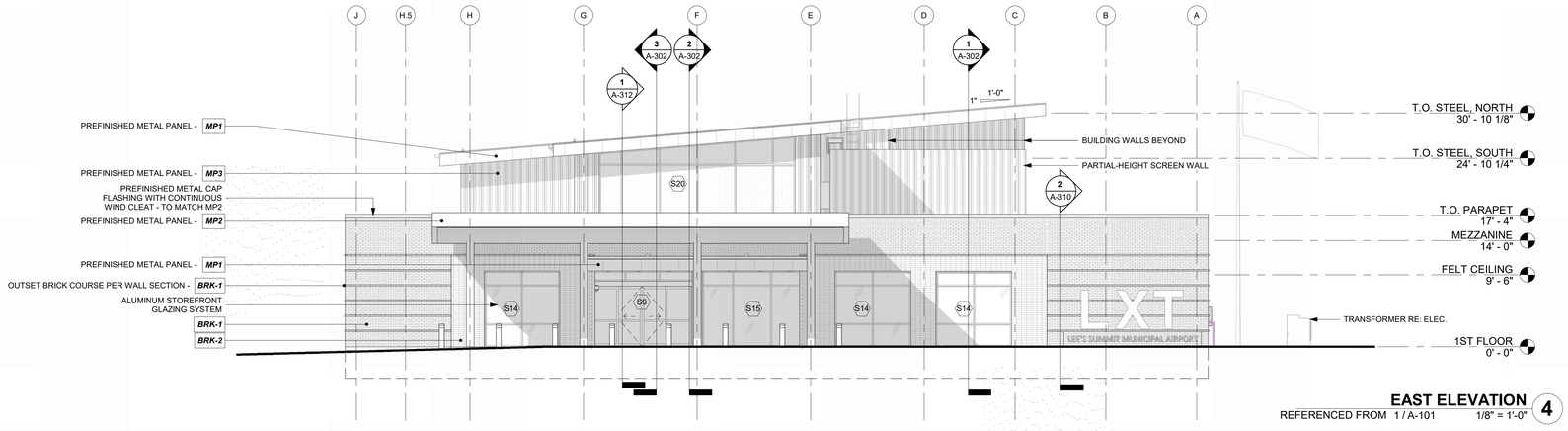
SHEET TITLE

REFLECTED CEILING PLAN, HIGH

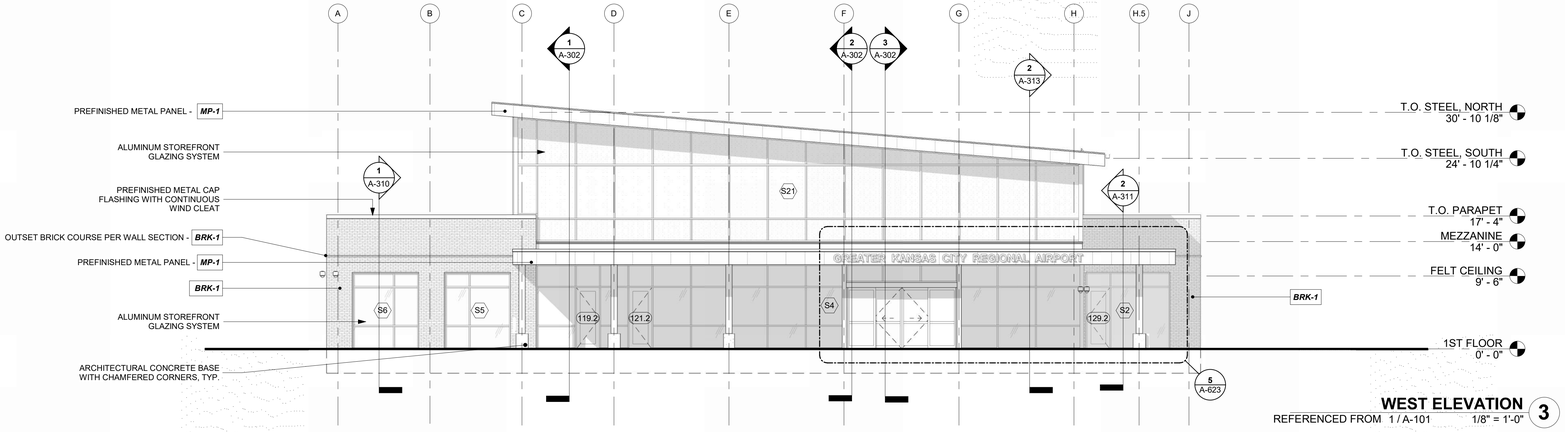
A-122

SHEET OF

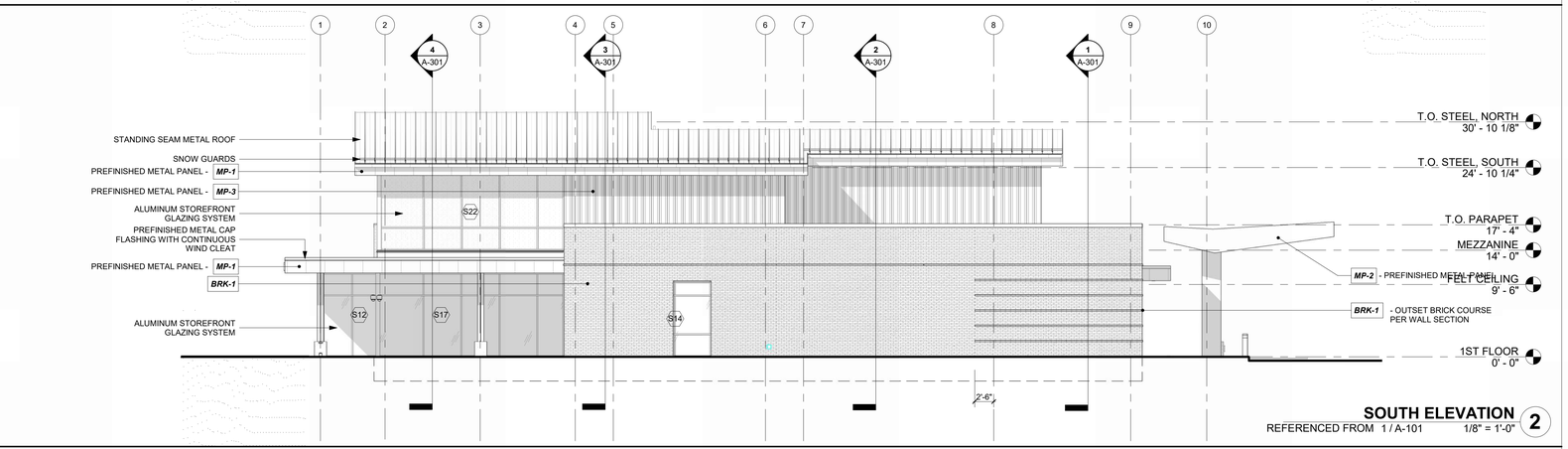
11/27/2024 9:17:51 AM



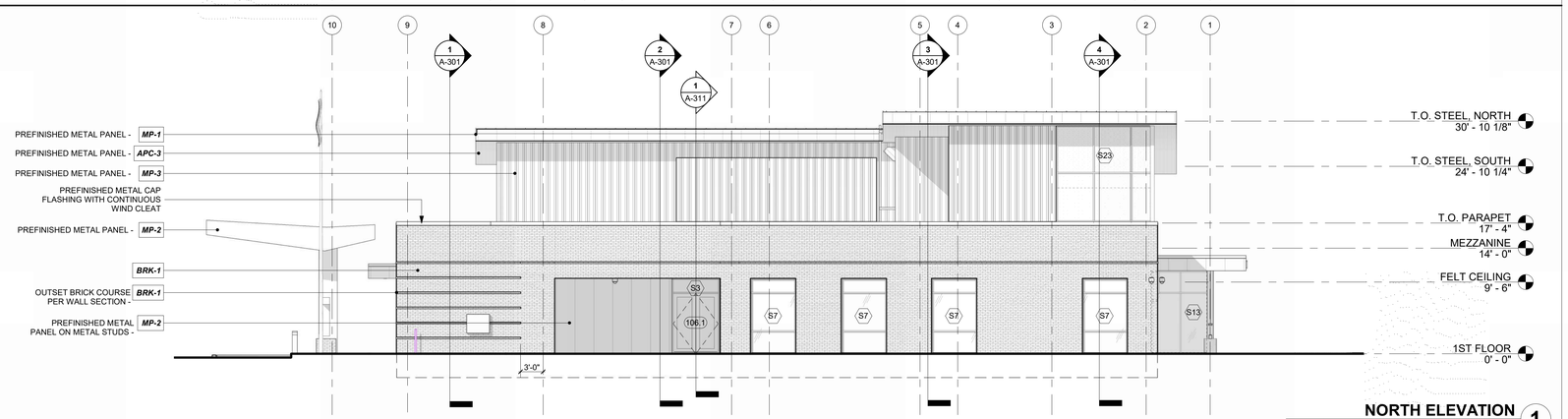
EAST ELEVATION 4
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



WEST ELEVATION 3
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



SOUTH ELEVATION 2
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



NORTH ELEVATION 1
REFERENCED FROM 1 / A-101 1/8" = 1'-0"

EXTERIOR MATERIALS

EXTERIOR FACE BRICK:
BRK-1: METALLIX TITANIUM - RUNNING BOND
BRK-2: BURLESQUE OYSTER WHITE - STACK BOND

METAL WALL/FASCIA PANELS:
MP-1: FLUSH ARCHITECTURAL COMPOSITE METAL FASCIA PANELS WITH CONCEALED FASTENERS-COLOR: REGAL BLUE
MP-2: FLUSH ARCHITECTURAL COMPOSITE METAL FASCIA PANELS WITH CONCEALED FASTENERS - COLOR: TBD
MP-3: FLUTED DEEP RIB PANEL WITH CONCEALED FASTENERS - COLOR: TO MATCH BUTLER COOL GRAY STONE

APC-3:
6" WIDE PLANKS, NON-PERFORATED

STOREFRONT SYSTEM:
TUBELITE T24650-THERMALLY-BROKEN CLEAR ANODIZED ALUM. FRAME

CAP FLASHING:
PREFINISHED ALUMINUM CAP FLASHING / GRAVEL STOPS

CAULK:
TO MATCH ADJACENT MATERIALS

ROOFING:
STANDING SEAM ROOF WITH SNOW GUARDS: TO MATCH REGAL BLUE
TPO: REFER TO ROOF PLANS FOR TPO FINISHES

METAL SOFFIT PANELS:

CMT
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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

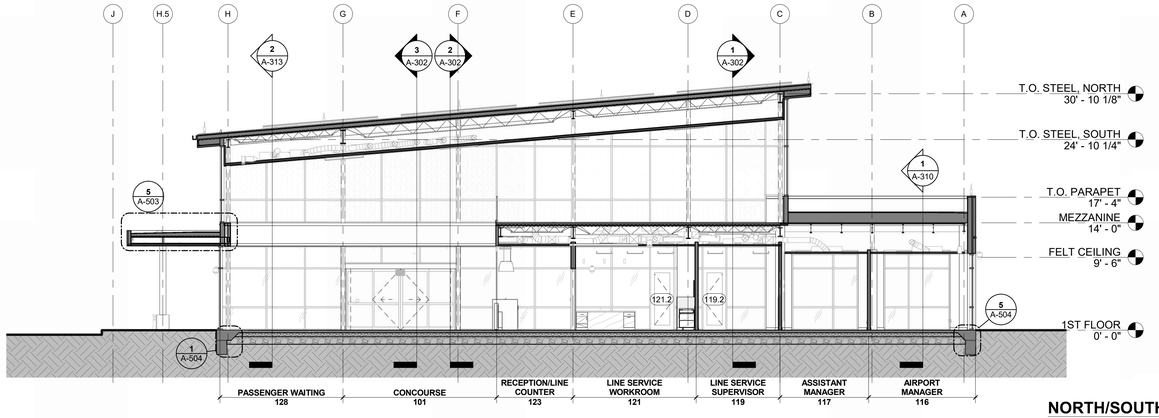
SHEET TITLE

EXTERIOR ELEVATIONS

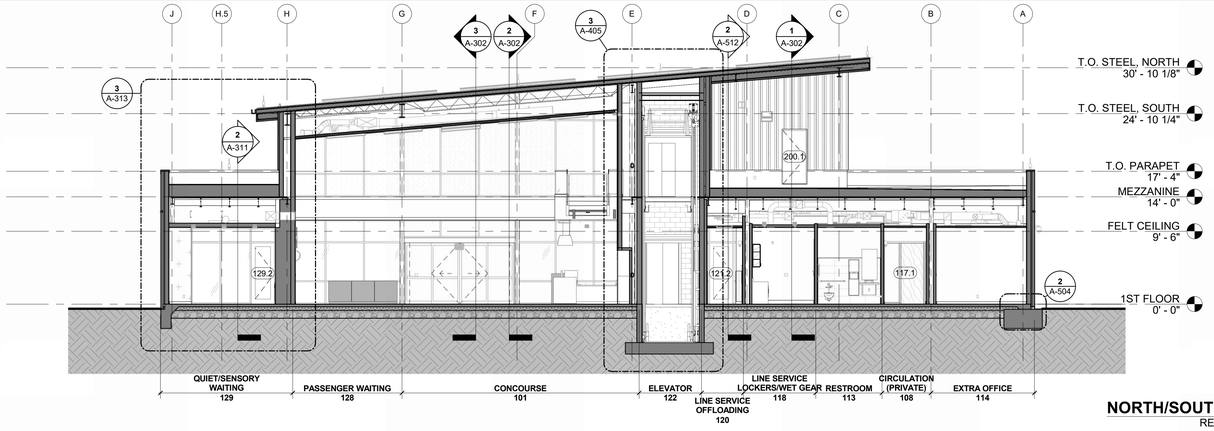
A-201

SHEET OF

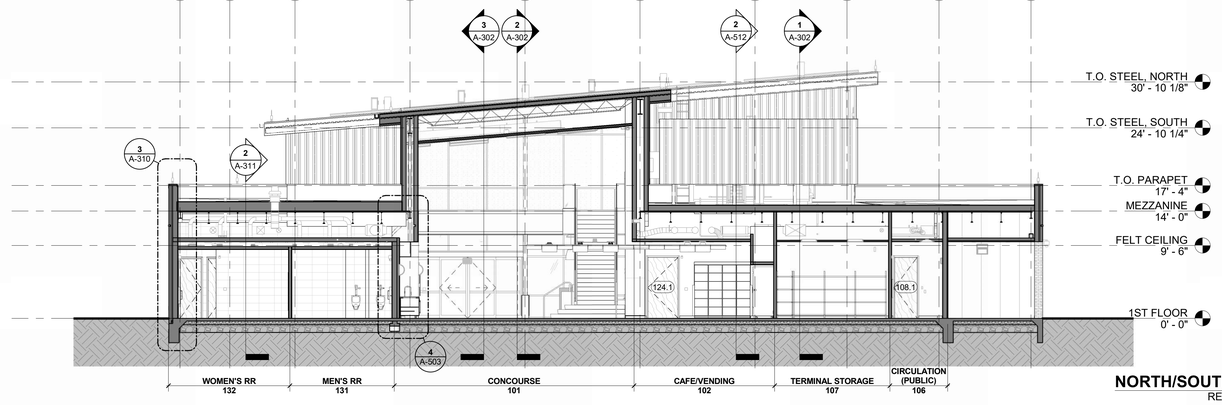
11/27/2024 9:18:08 AM



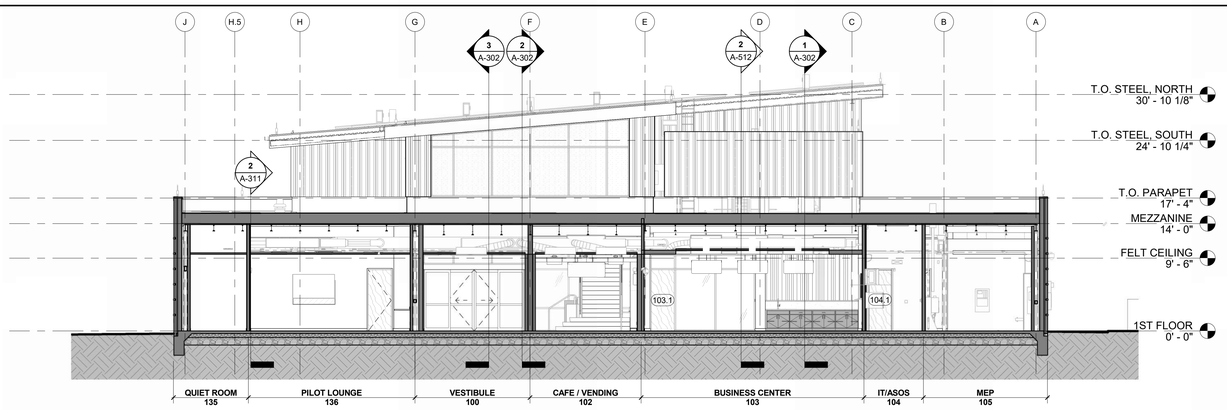
NORTH/SOUTH SECTION 4, LOOKING WEST 4
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



NORTH/SOUTH SECTION 3, LOOKING WEST 3
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



NORTH/SOUTH SECTION 2, LOOKING WEST 2
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



NORTH/SOUTH SECTION 1, LOOKING WEST 1
REFERENCED FROM 1 / A-101 1/8" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767
STATE OF MISSOURI JULIE BLACK WELLNER NUMBER A-5006 REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

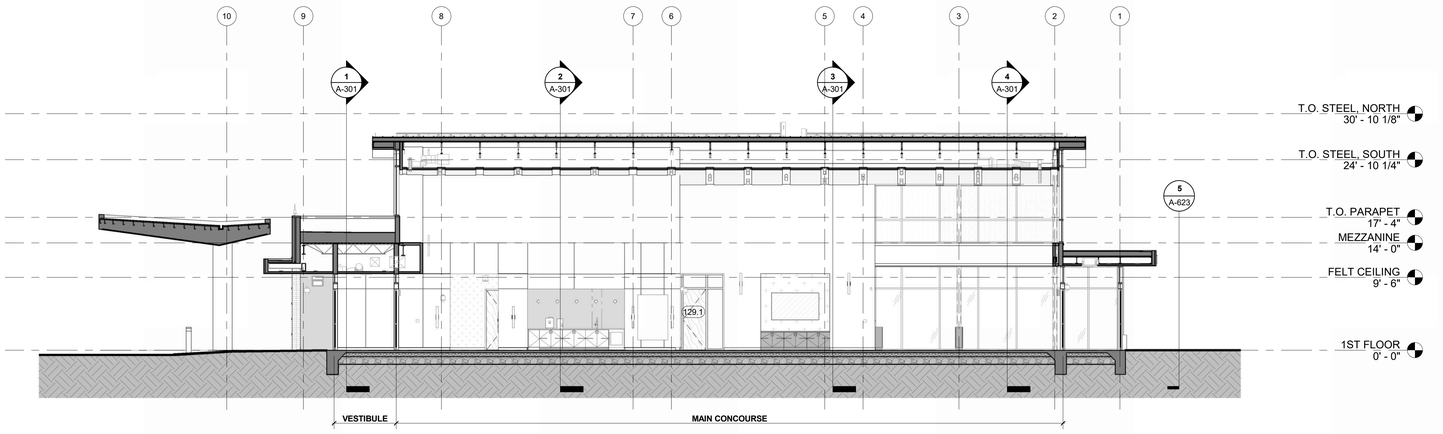
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

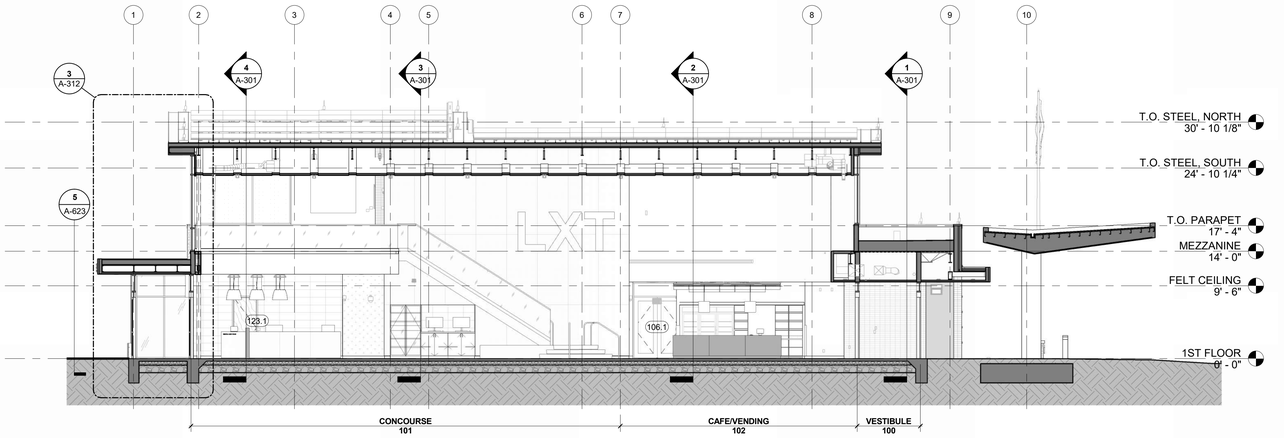
BUILDING SECTIONS

A-301
SHEET OF

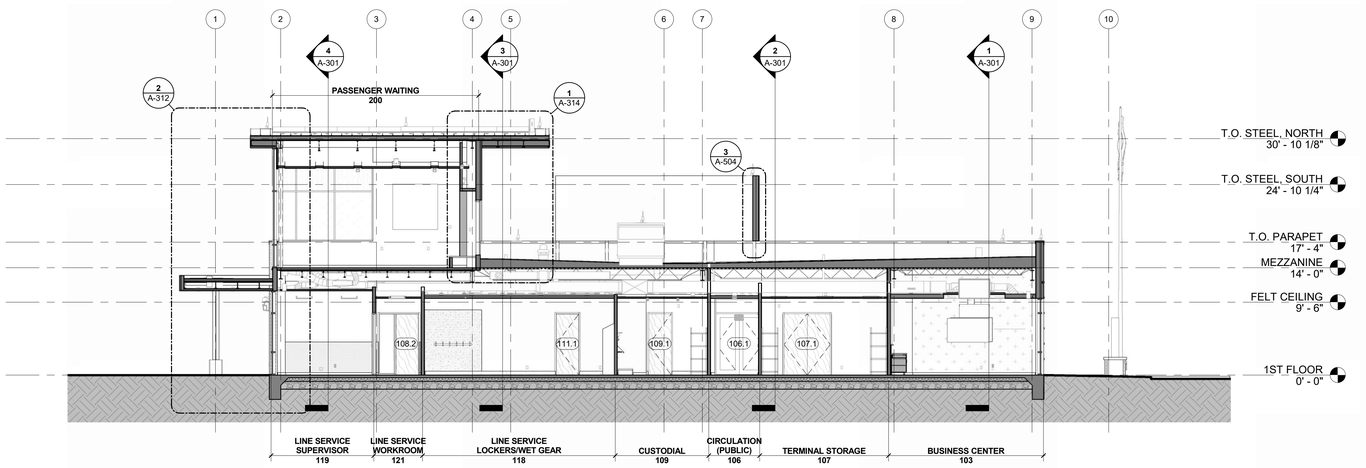
11/27/2024 9:18:19 AM



EAST/WEST SECTION 3, LOOKING SOUTH 3
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



EAST/WEST SECTION 2, LOOKING NORTH 2
REFERENCED FROM 1 / A-101 1/8" = 1'-0"



EAST/WEST SECTION 1, LOOKING NORTH 1
REFERENCED FROM 1 / A-101 1/8" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000787

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

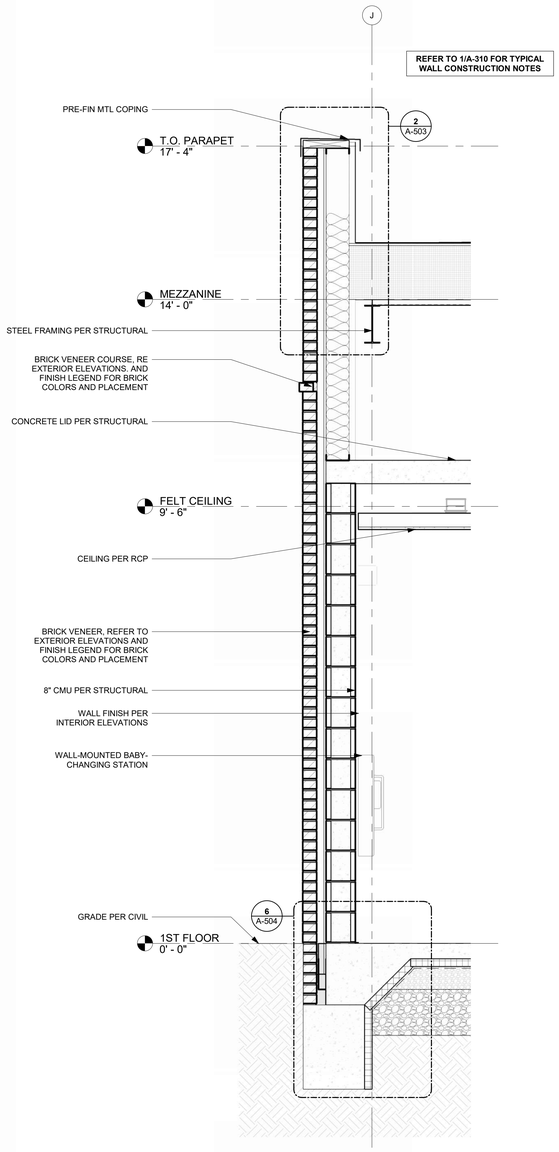
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

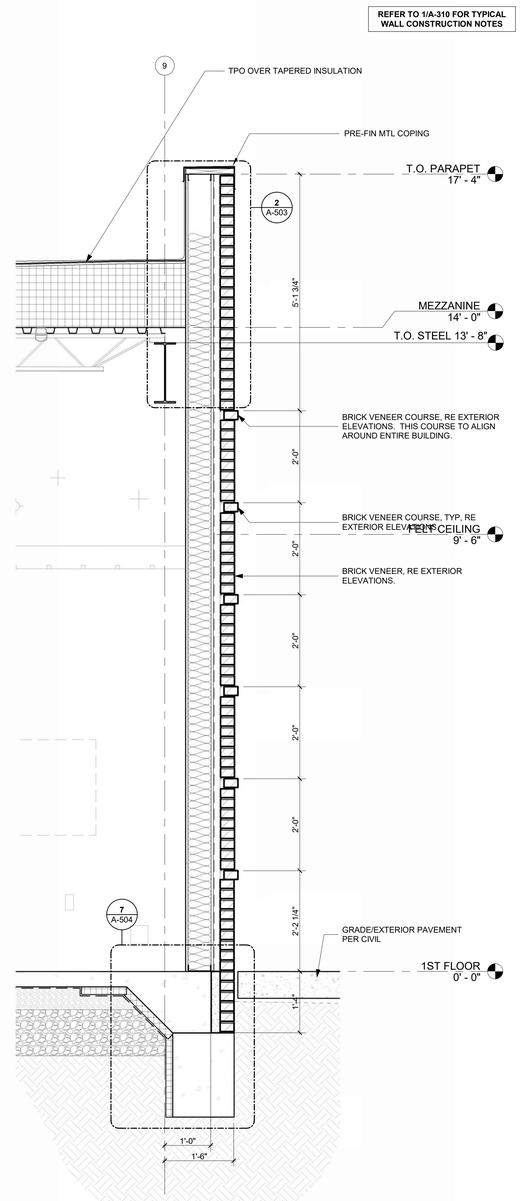
BUILDING SECTIONS

A-302
SHEET OF

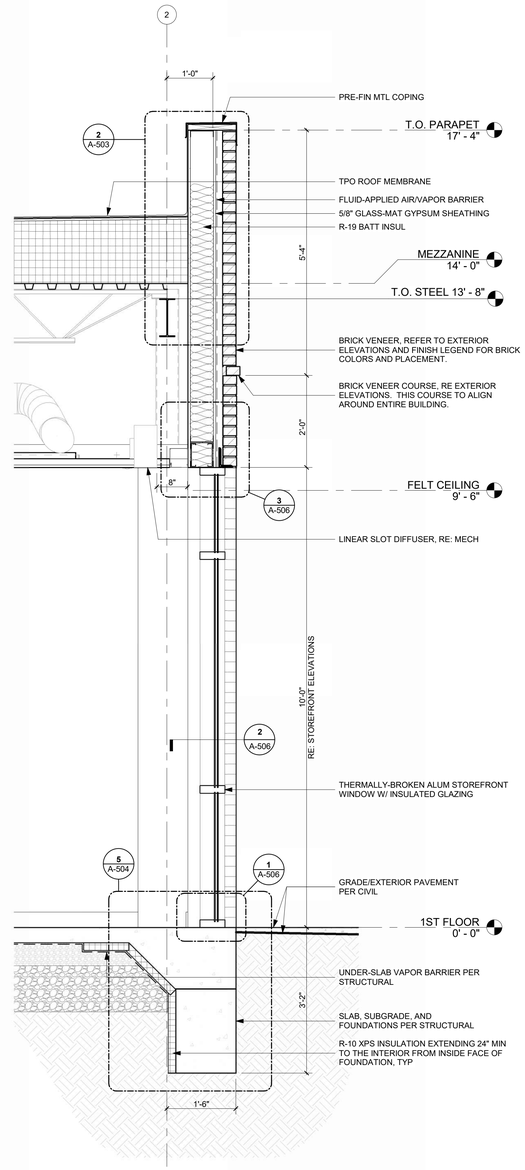
11/27/2024 9:18:26 AM



SECTION THRU RESTROOM SOUTH WALL 3
REFERENCED FROM 2 / A-301 3/4" = 1'-0"



TYPICAL SECTION THRU BRICK ON STUD WALL 2
3/4" = 1'-0"



TYPICAL SECTION THRU STOREFRONT IN MTL STUD WALL 1
3/4" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
- MO Certificate of Authority #000767 -

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

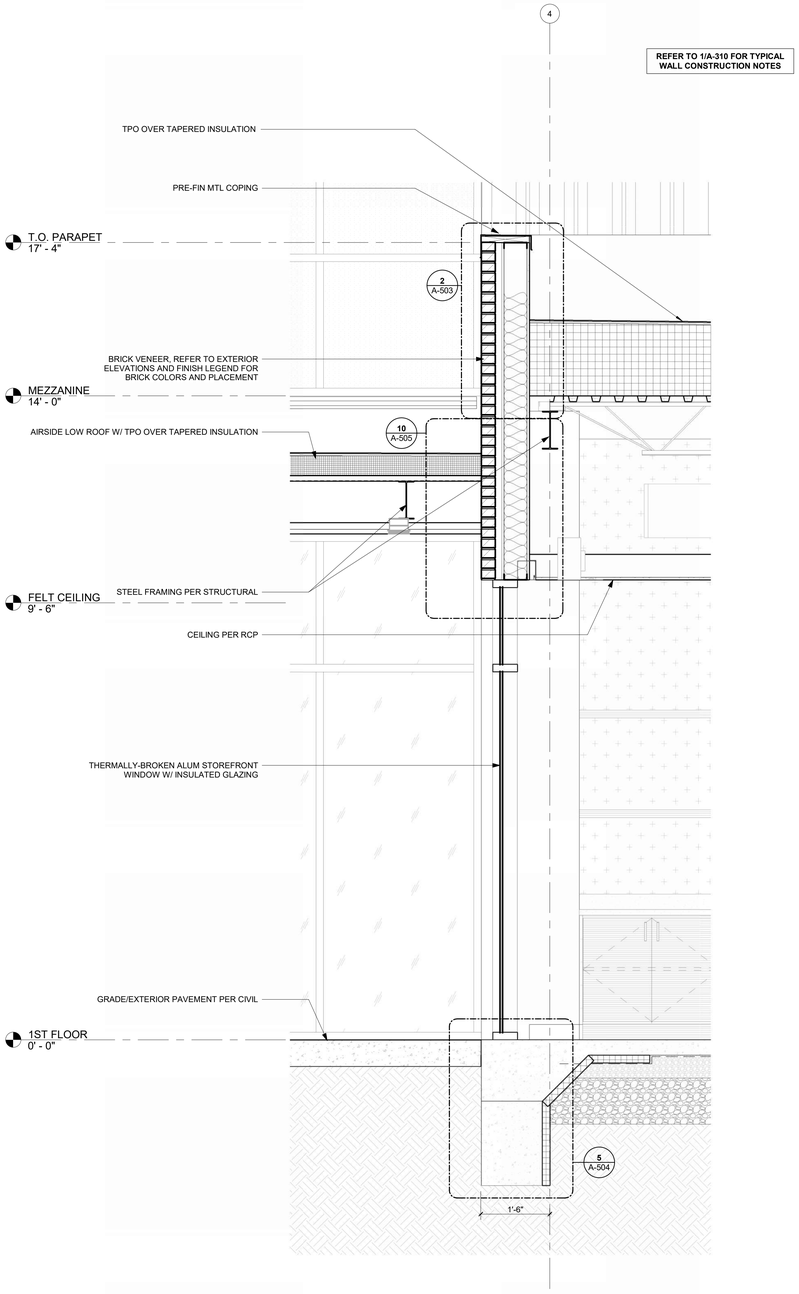
MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

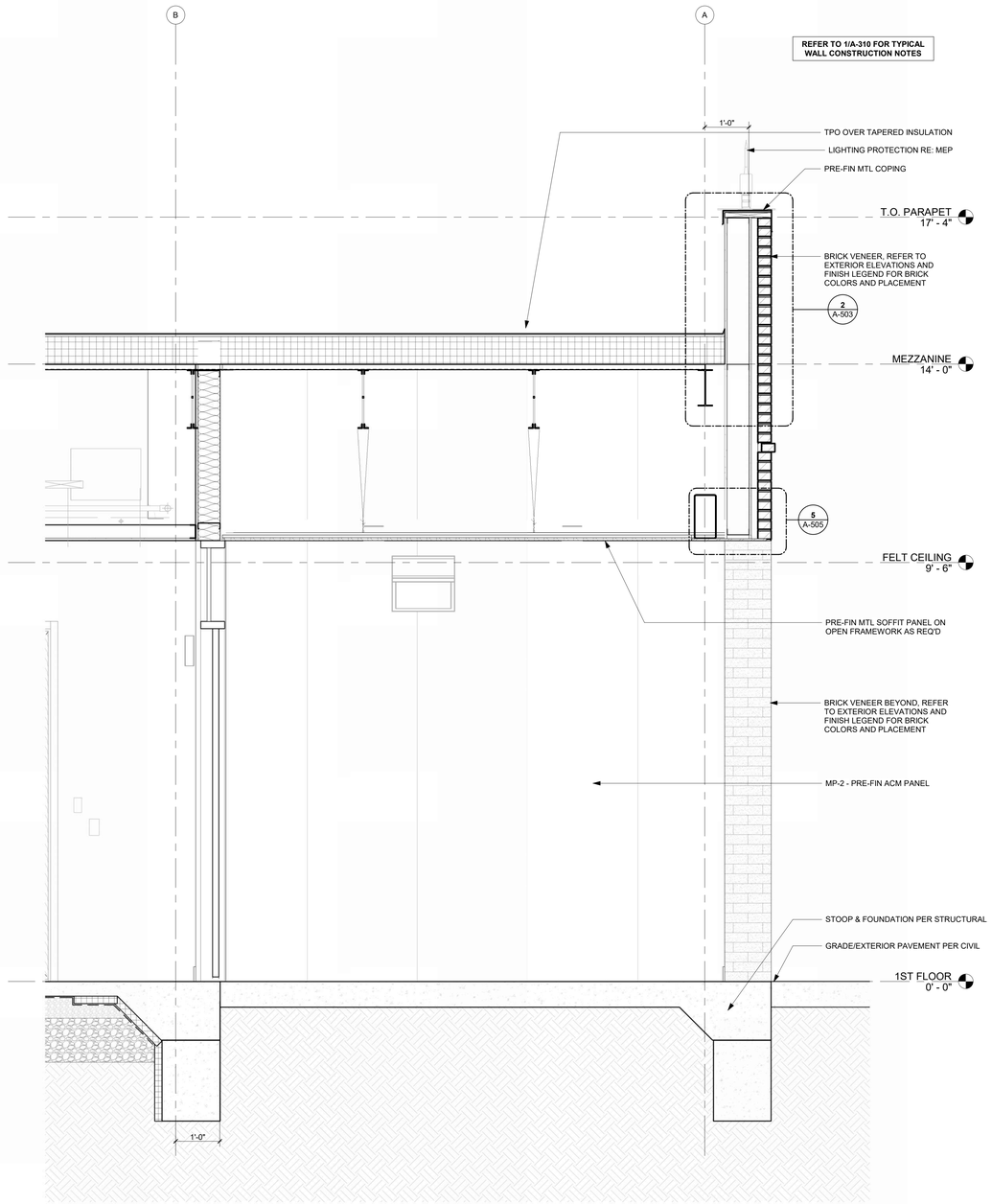
SHEET TITLE
WALL SECTIONS

A-310
SHEET OF

11/27/2024 9:18:31 AM



SECTION THRU AIRSIDE LOW ROOF AT **2**
REFERENCED FROM 1 / A-101 3/4" = 1'-0"



SECTION THRU NORTH COVERED ENTRY **1**
REFERENCED FROM 1 / A-101 3/4" = 1'-0"

11/27/2024 9:18:38 AM

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

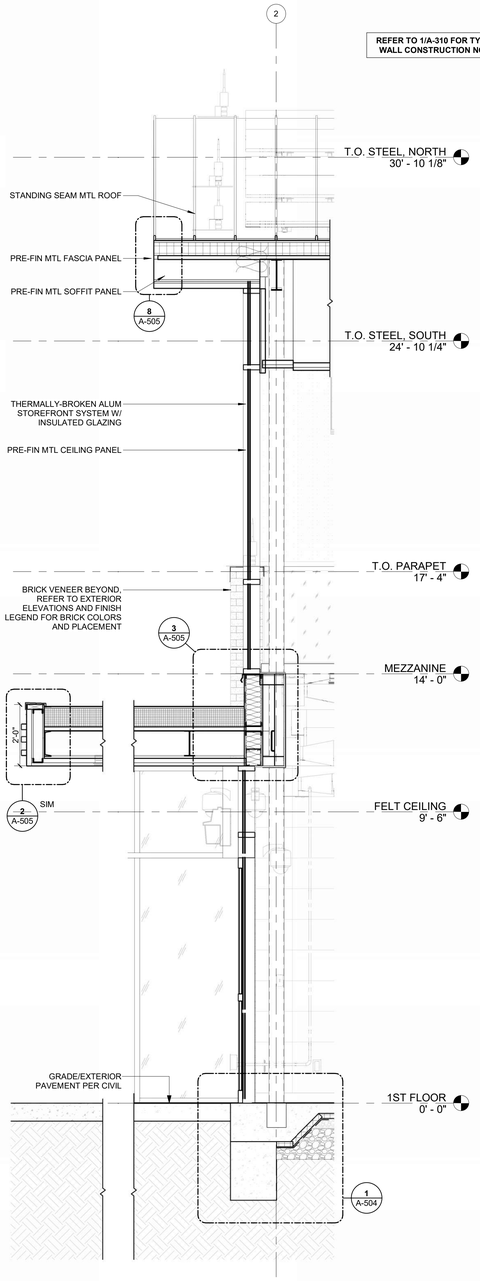
LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

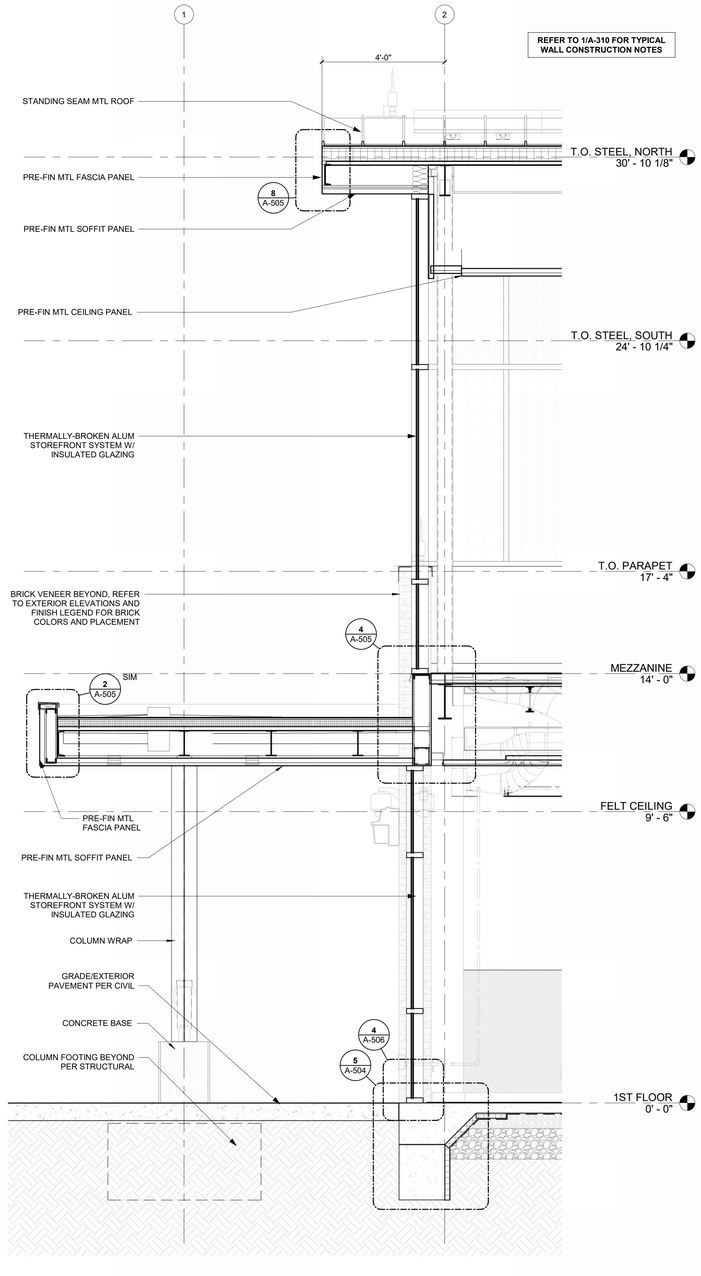
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE
WALL SECTIONS

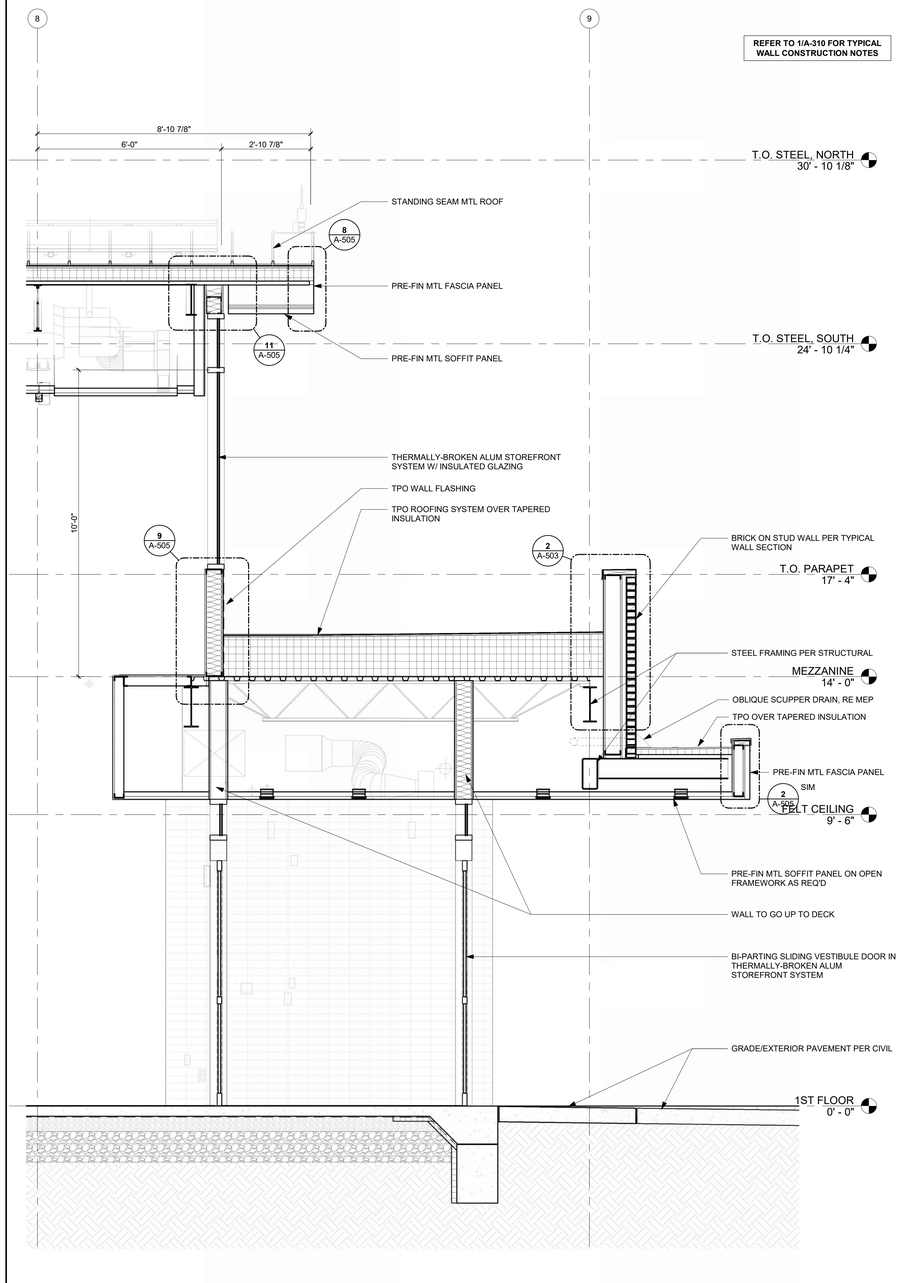
A-311
SHEET OF



SECTION @ WEST WALL @ CONCOURSE, SOUTH WALL SIM 3
REFERENCED FROM 2 / A-302 1/2" = 1'-0"



SECTION THRU WEST WALL @ MEZZANINE 2
REFERENCED FROM 1 / A-302 1/2" = 1'-0"



SECTION THRU MAIN ENTRANCE VESTIBULE 1
REFERENCED FROM 1 / A-101 1/2" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NOTARIAL COMMISSION
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
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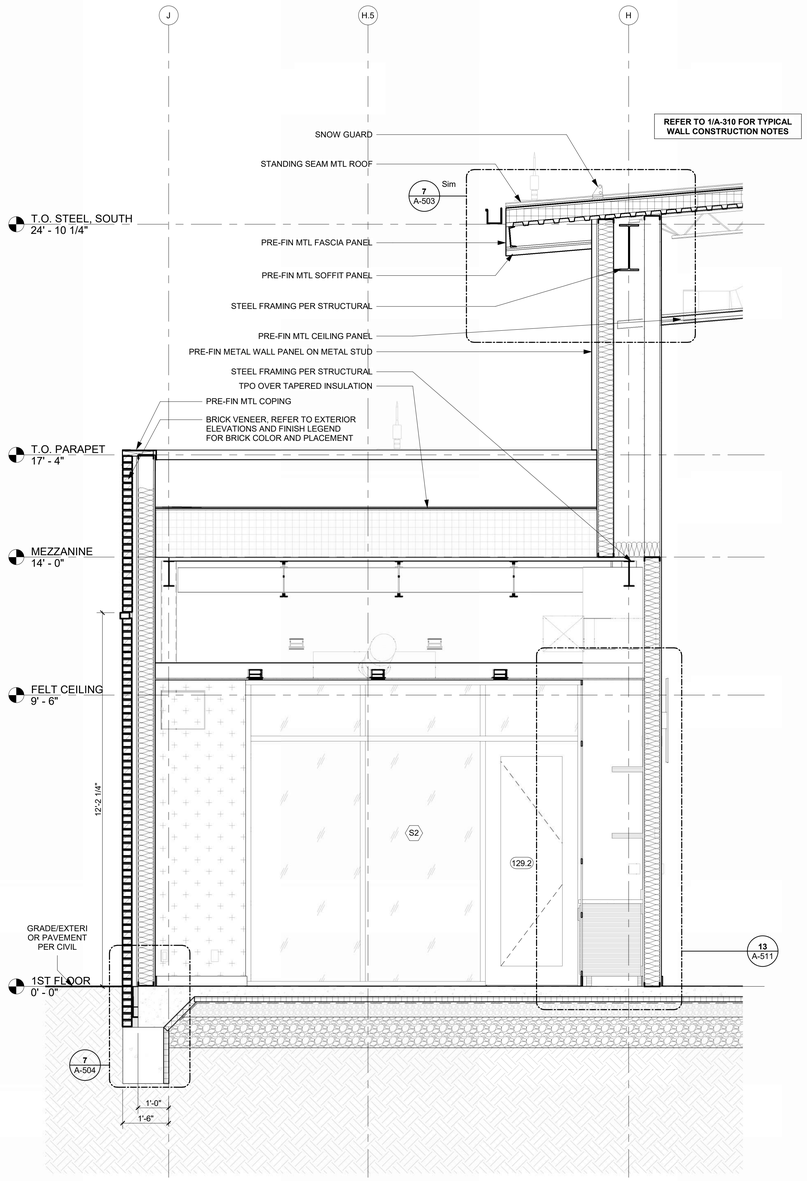
SHEET TITLE

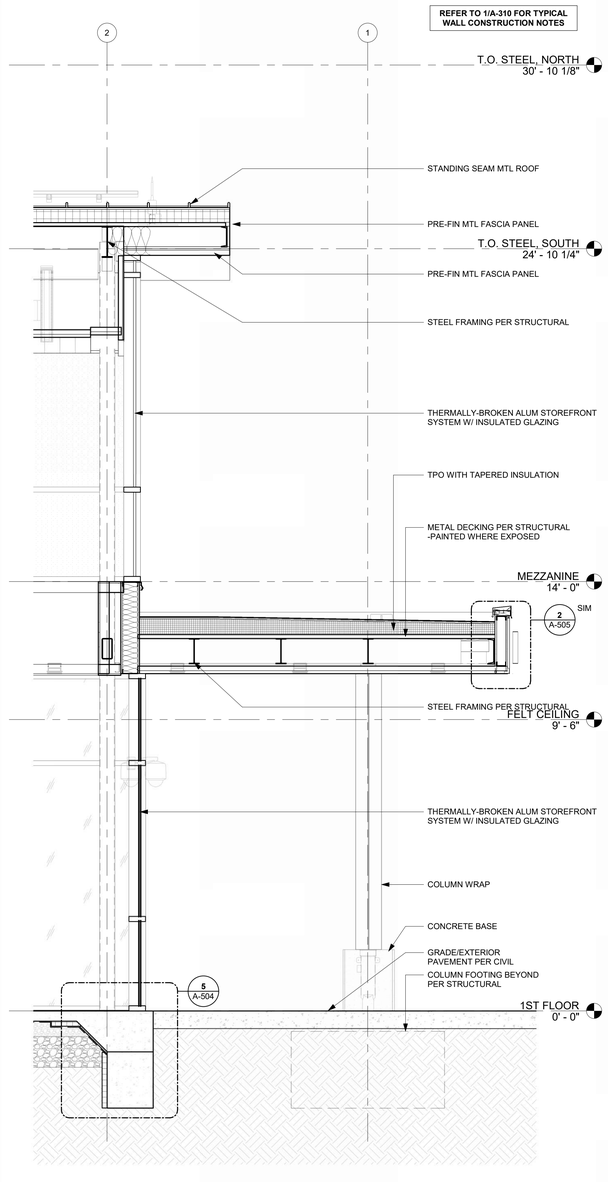
WALL SECTIONS

A-312
SHEET OF

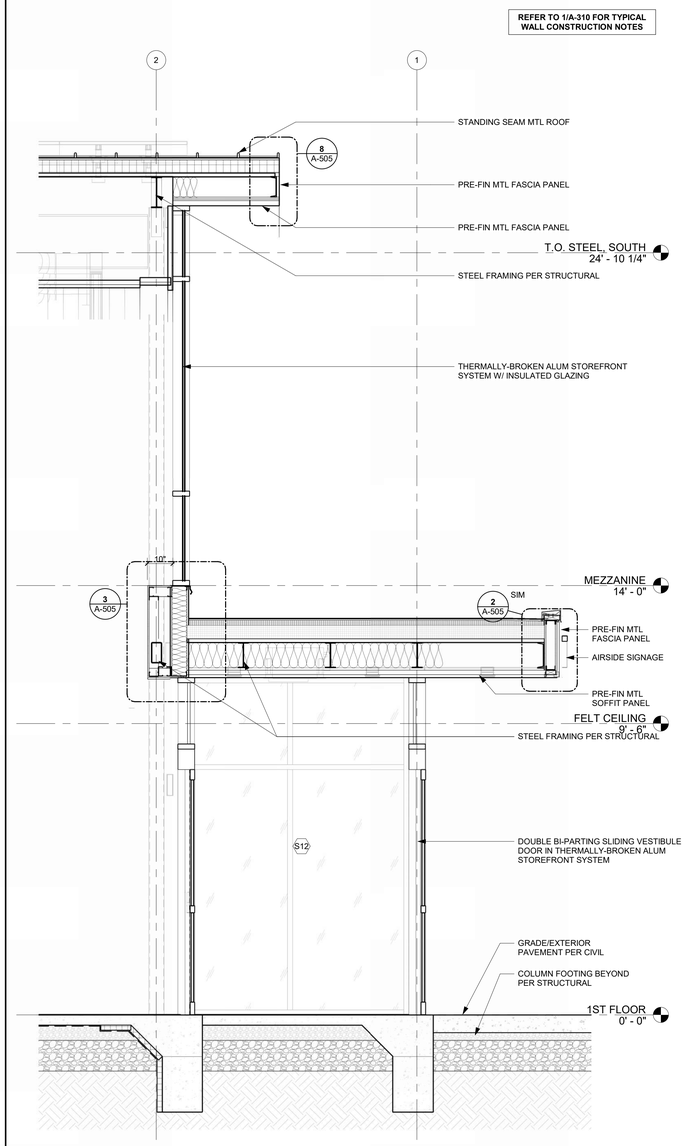
11/27/2024 9:18:44 AM



SECTION THRU SOUTH WALL 3
REFERENCED FROM 3 / A-301 1/2" = 1'-0"



SECTION THRU WEST (AIRSIDE) CANOPY 2
REFERENCED FROM 1 / A-101 1/2" = 1'-0"



SECTION THRU WEST (AIRSIDE) VESTIBULE 1
REFERENCED FROM 1 / A-121 1/2" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
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REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

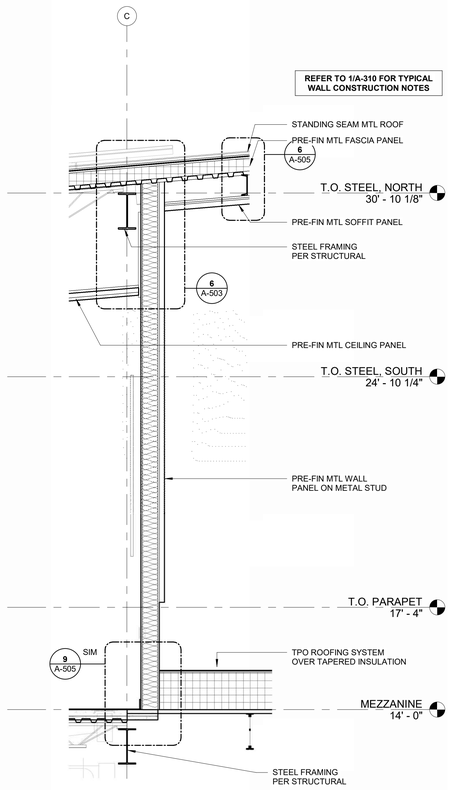
SHEET TITLE

WALL SECTIONS

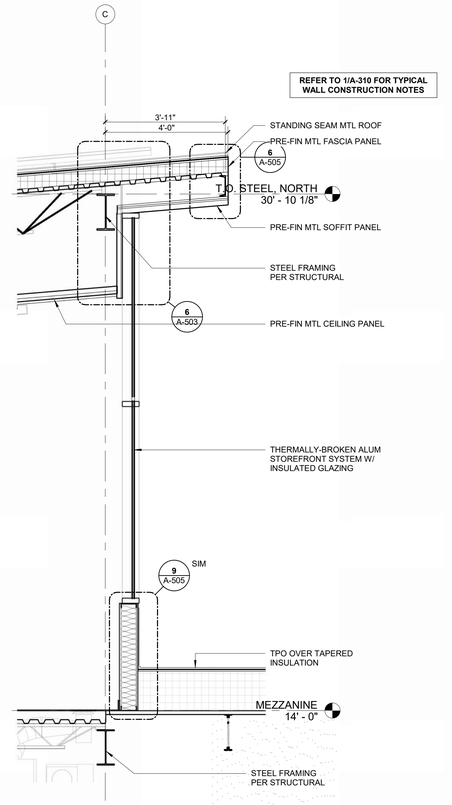
A-313

SHEET OF

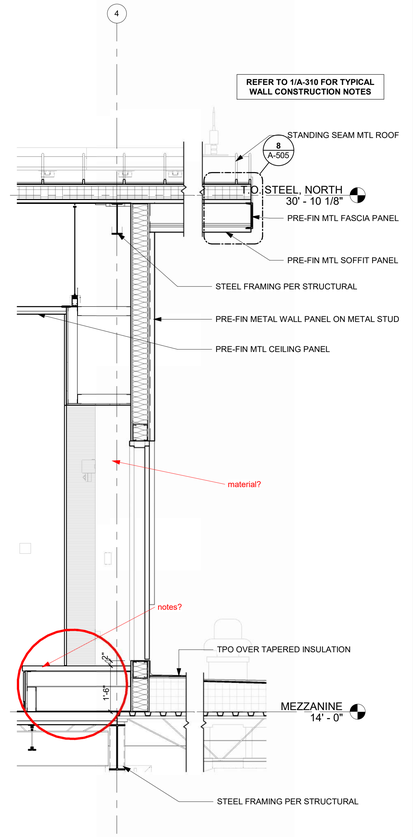
11/27/2024 9:18:50 AM



SECTION THRU NORTH MEZZANINE WALL @ MTL PANEL 3
REFERENCED FROM 1 / A-403 1/2" = 1'-0"



SECTION THRU NORTH MEZZANINE WALL @ STOREFRONT 2
REFERENCED FROM 1 / A-403 1/2" = 1'-0"



SECTION THRU MEZZANINE/LOW ROOF ACCESS 1
REFERENCED FROM 1 / A-302 1/2" = 1'-0"

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Weiner - Architect - MO #A-5006 - MO Certificate of Authority #000767 -
STATE OF MISSOURI
JULIE BLACK WEINER
NOTARIAL COMMISSION
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver
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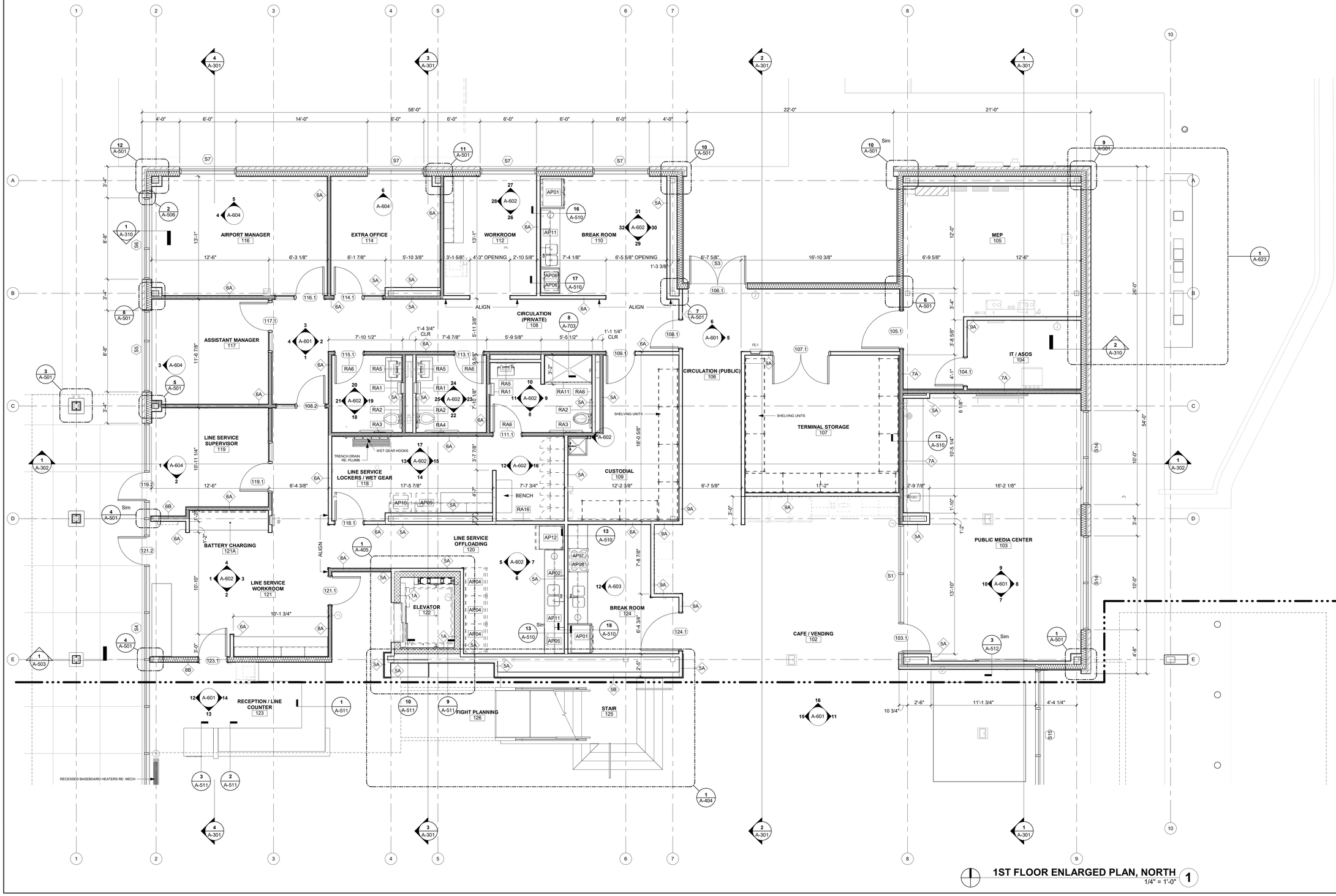
SHEET TITLE

WALL SECTIONS

A-314
SHEET OF

11/27/2024 9:18:54 AM



1ST FLOOR ENLARGED PLAN, NORTH 1
1/4" = 1'-0"

11/27/2024 9:18:58 AM

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767
11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
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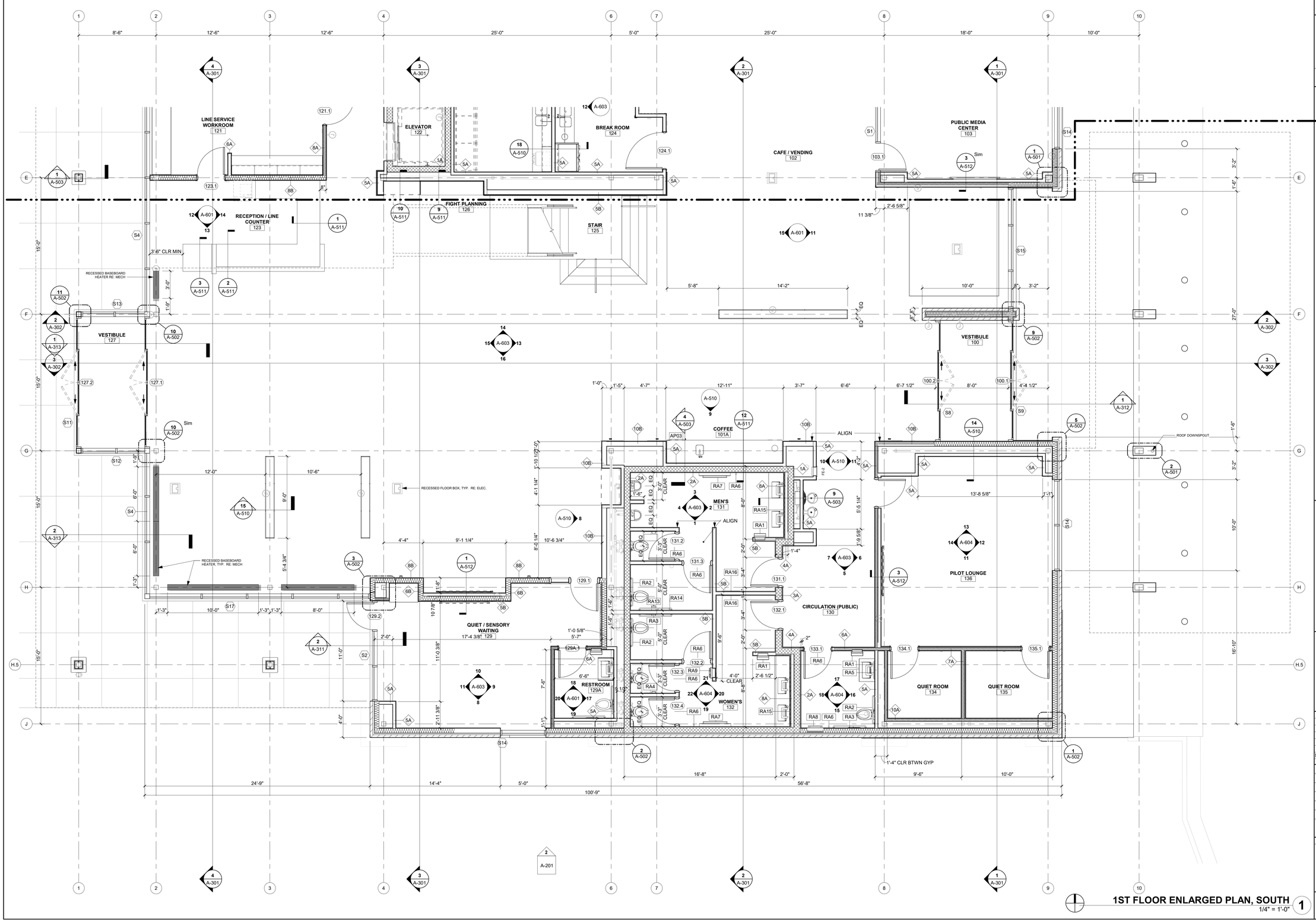
SHEET TITLE

ENLARGED 1ST FLOOR PLAN, NORTH

A-401

SHEET OF



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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767
11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver
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ENLARGED 1ST FLOOR PLAN, SOUTH

A-402

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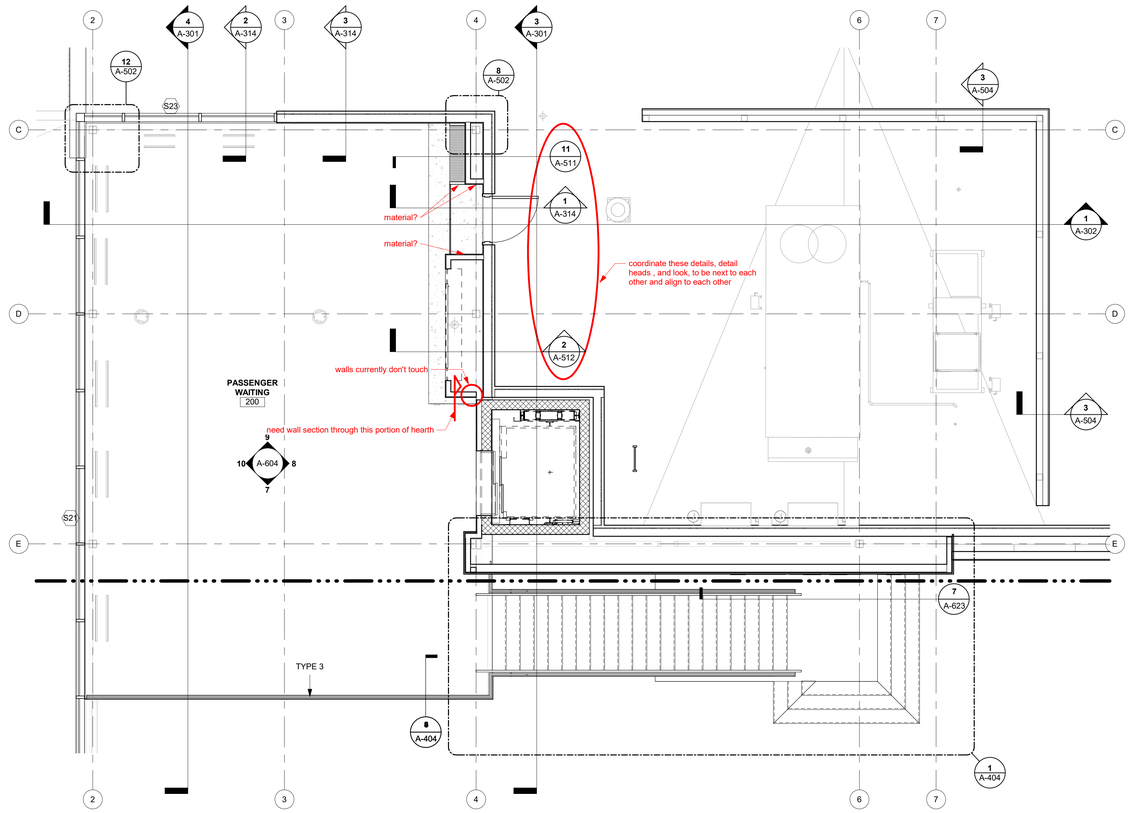

A-510

MEZZANINE ENLARGED PLAN 1

1/4" = 1'-0"

11/27/2024 9:19:03 AM

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GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767 - STATE OF MISSOURI JULIE BLACK WELLNER NUMBER A-5006 REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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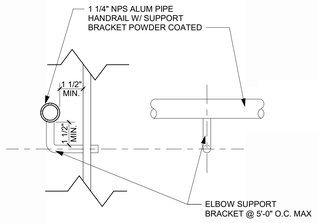
SHEET TITLE

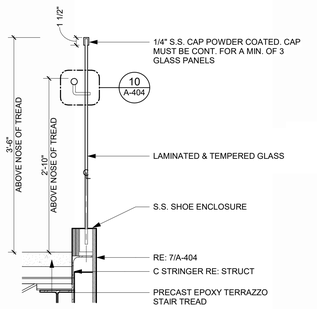
ENLARGED MEZZANINE PLAN

A-403

SHEET OF



RAIL TYPE 2 HANDRAIL DETAIL 10
REFERENCED FROM 9 / A-404 3" = 1'-0"



RAIL TYPE 2 9
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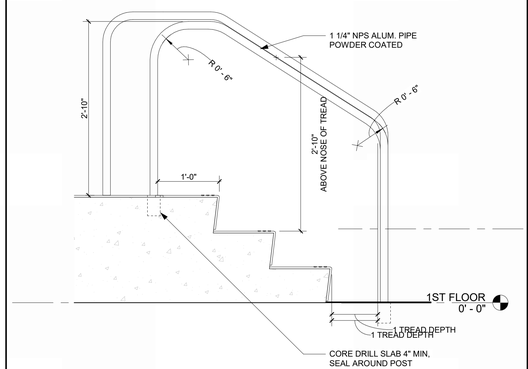
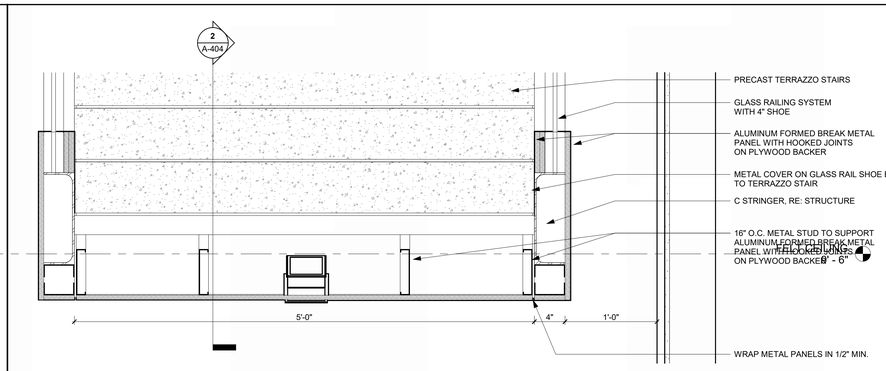
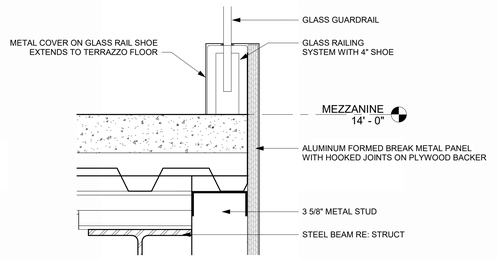


RAIL TYPE 1 8
REFERENCED FROM / 1" = 1'-0"



STRINGER DETAIL @ STAIR 7
REFERENCED FROM 2 / A-404 1 1/2" = 1'-0"



MEZZANINE RAILING BASE DETAIL 6
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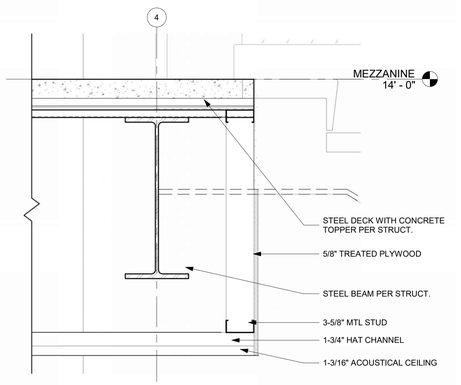
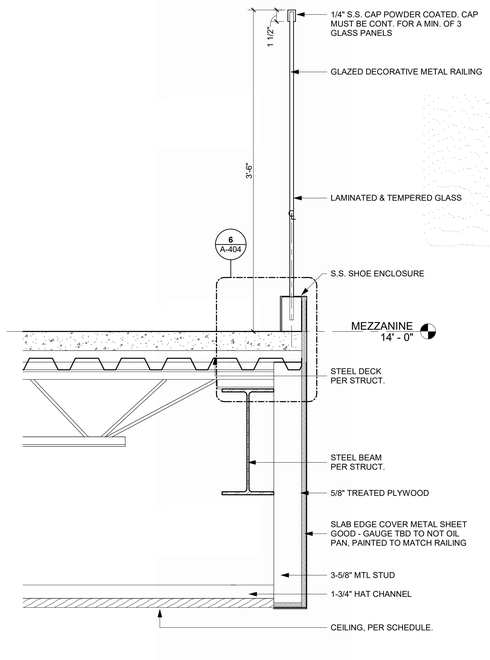


EAST/WEST SECTION @ STAIR HEAD 5
REFERENCED FROM 2 / A-404 1 1/2" = 1'-0"



MEZZANINE RAIL TYPE 3 DETAIL 4
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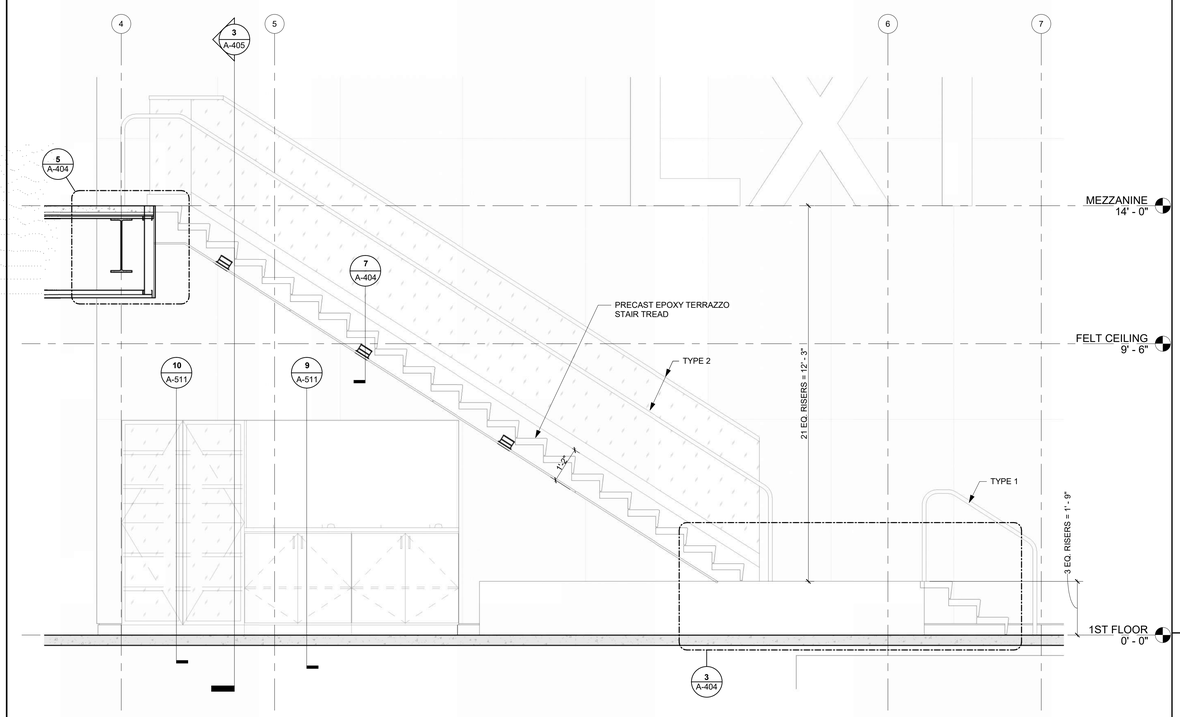

EAST/WEST SECTION @ STAIRS 2
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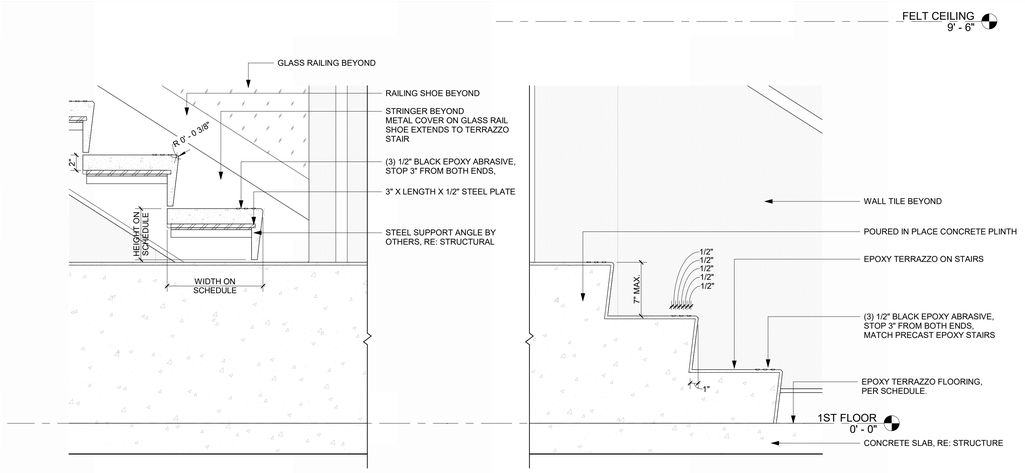

STAIR DETAIL @ PLINTH BASE 3
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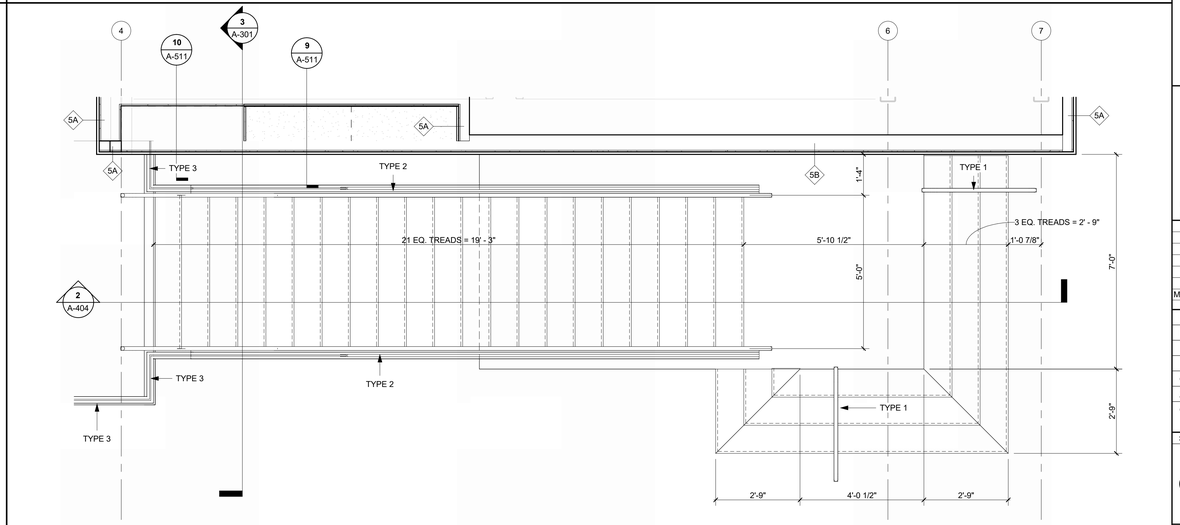

ENLARGED STAIR PLAN 1
REFERENCED FROM 1 / A-401 1/2" = 1'-0"

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
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REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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SHEET TITLE

VERTICAL
CIRCULATION, STAIRS

A-404

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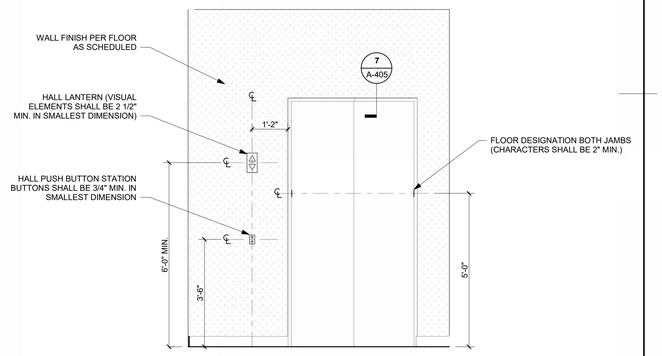
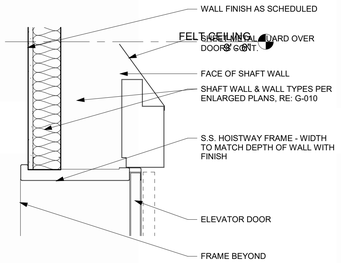
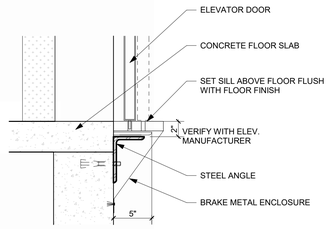


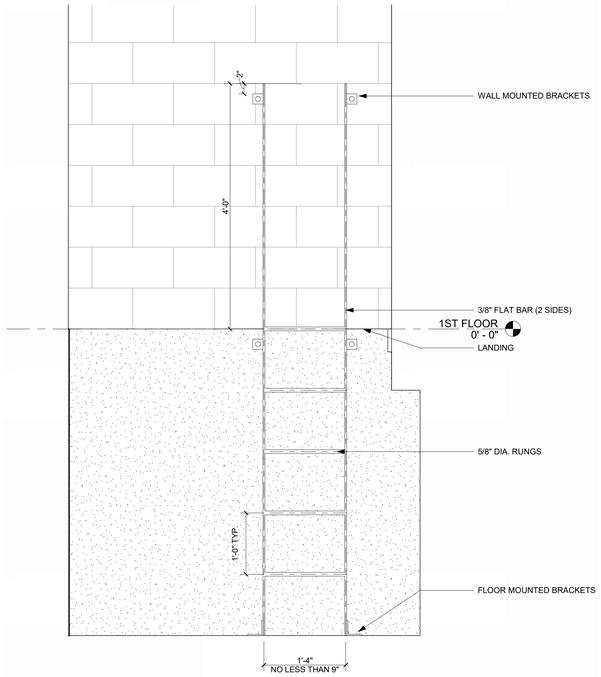
TYP. ELEVATOR ENTRY & MOUNTING HEIGHTS 8
REFERENCED FROM 1 / A-405 1/2" = 1'-0"



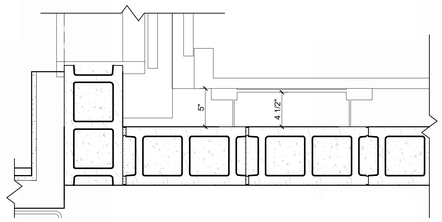
ELEVATOR DOOR HEAD TYP. DETAIL 7
REFERENCED FROM 2 / A-405 1 1/2" = 1'-0"



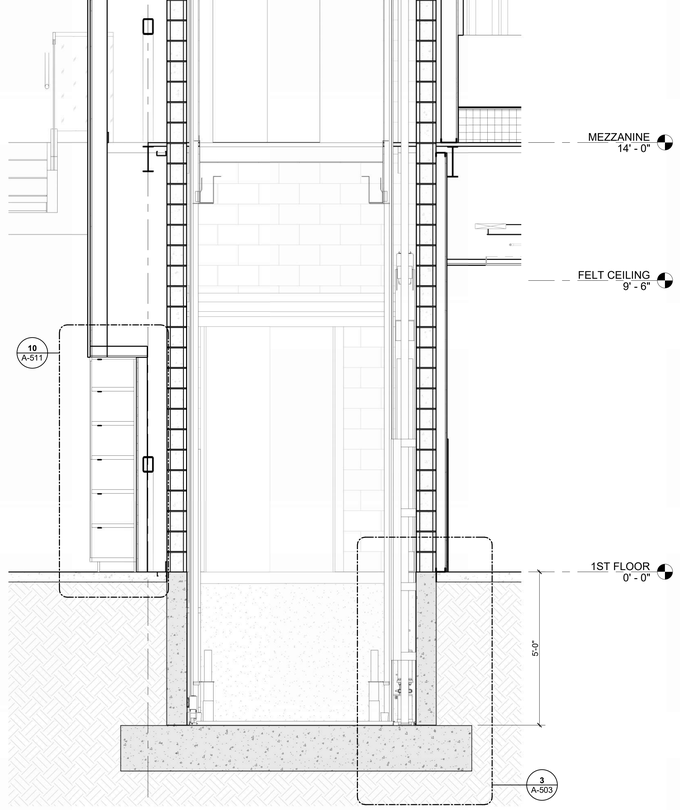
ELEVATOR SILL TYP. DETAIL 6
REFERENCED FROM 2 / A-405 1 1/2" = 1'-0"



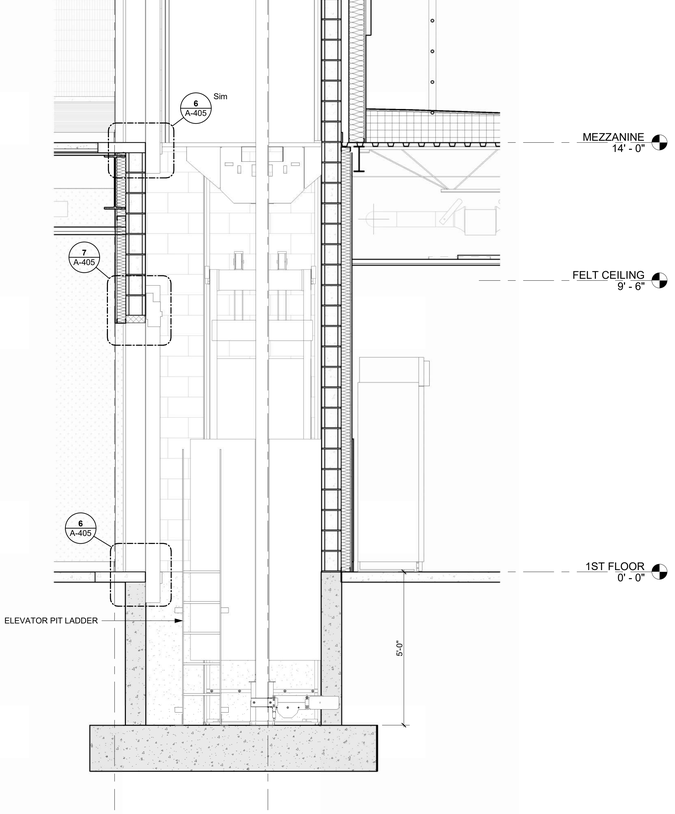
ELEVATION @ ELEVATOR PIT LADDER 5
REFERENCED FROM 1 / A-405 1" = 1'-0"



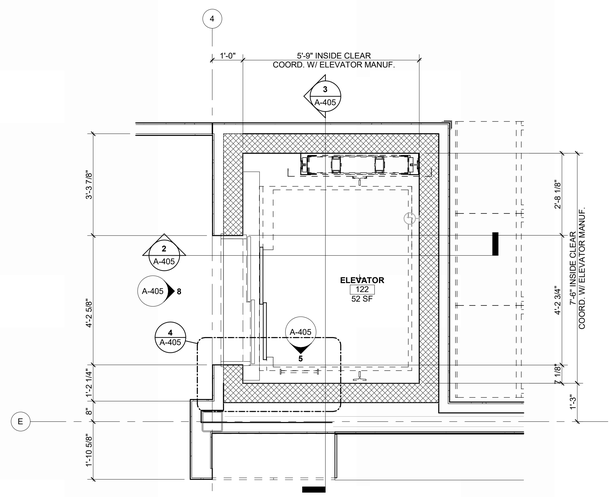
PLAN DETAIL @ ELEVATOR PIT LADDER 4
REFERENCED FROM 1 / A-405 1 1/2" = 1'-0"



NORTH/SOUTH SECTION @ ELEVATOR 3
REFERENCED FROM 3 / A-301 1/2" = 1'-0"



EAST/WEST SECTION @ ELEVATOR 2
REFERENCED FROM 1 / A-405 1/2" = 1'-0"



ENLARGED ELEVATOR PLAN, 1ST FLOOR 1
REFERENCED FROM 1 / A-401 1/2" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #0007167 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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VERTICAL CIRCULATION, ELEVATOR

A-405

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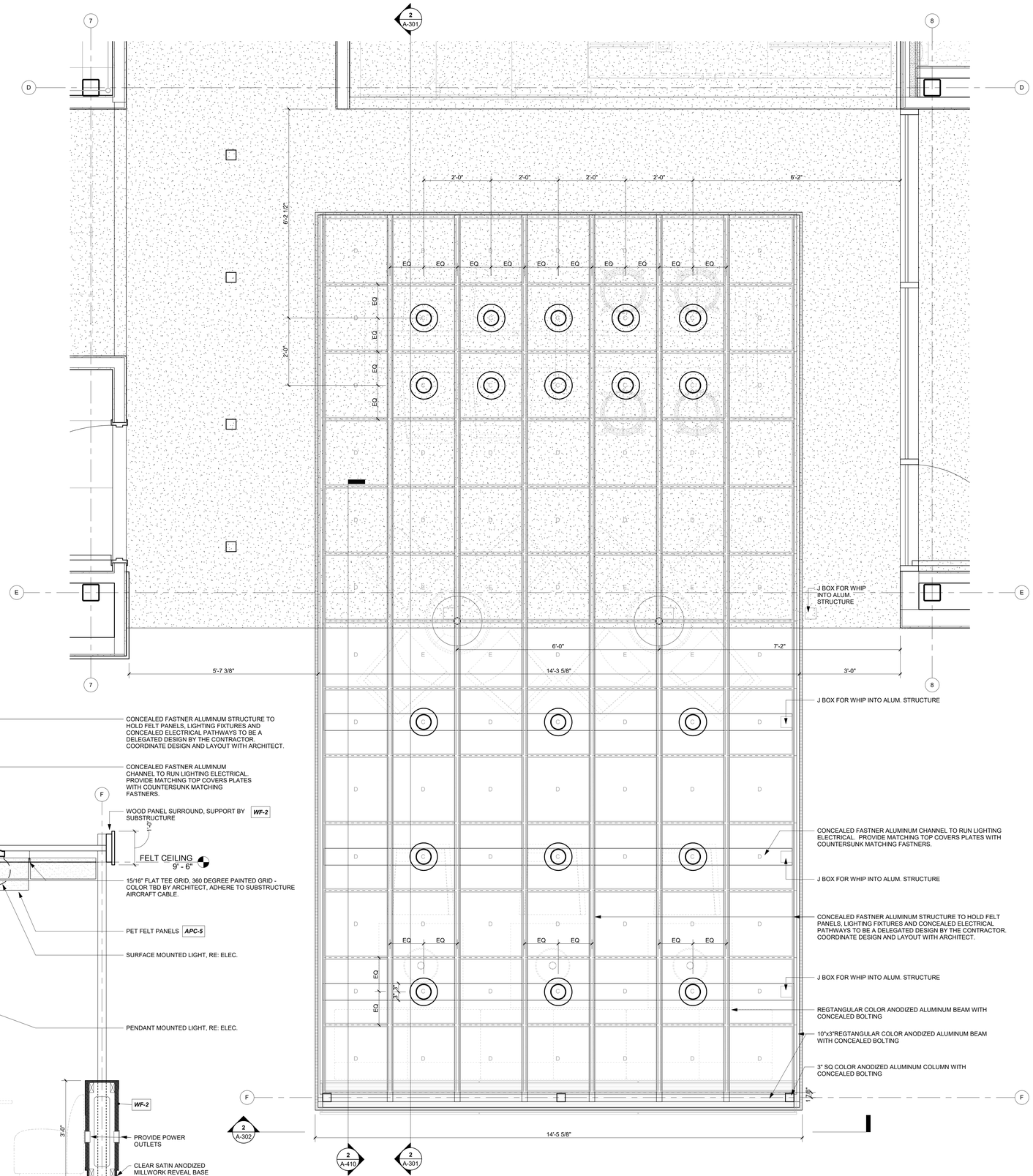

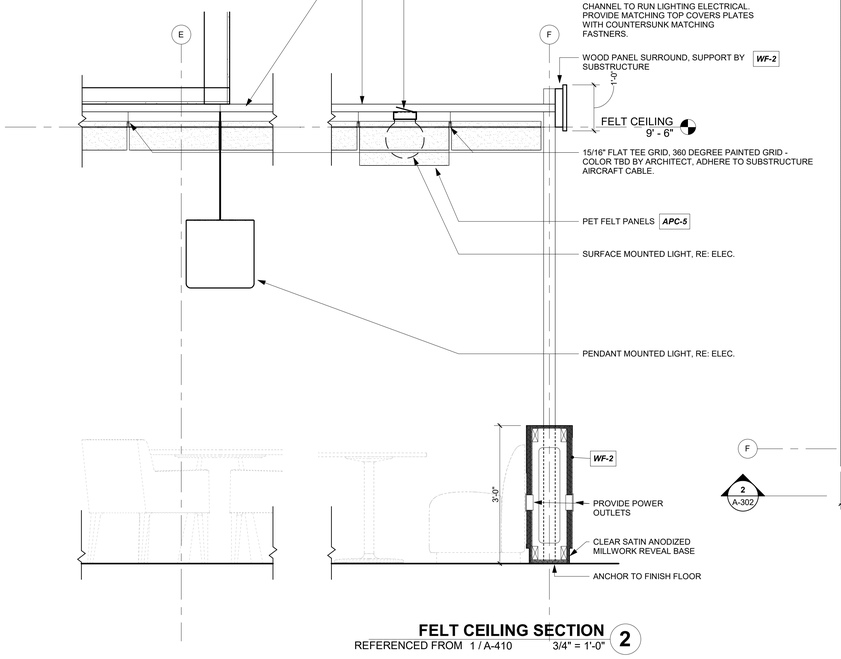

FELT CEILING SECTION 2
REFERENCED FROM 1 / A-410 3/4" = 1'-0"

RCP - LEVEL 1 - FELT CEILING 1
REFERENCED FROM 1 / A-121 3/4" = 1'-0"

FEATURE CEILING NOTES:

1. CUSTOM EXTRUDED ALUMINUM SUPPORTED FEATURE CEILING IS A DELEGATED DESIGN.
2. THE DEPICTIONS AND CALLOUTS ARE TO ESTABLISH THE MINIMUM STANDARDS FOR BIDDING.
3. THE DELEGATED DESIGNER IS RESPONSIBLE FOR PROVIDING A COMPLETE TURNKEY FINAL PRODUCT.
4. RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO THE REQUIRED PARTS, CONNECTION MEANS, FASTENERS, DETERMINING THE MATERIAL THICKNESSES, MATERIAL SIZES, AND ATTACHMENT METHODS OF THE SUPPORTING STRUCTURE.
5. DELEGATED DESIGNER IS RESPONSIBLE TO PROVIDE AND/OR COORDINATE THE CONCEALED ROUTING OF ELECTRICAL THROUGHOUT THE STRUCTURE.
6. 1/2" MC-CABLE IS ALLOWED WITHIN THE STRUCTURE.
7. REFER TO ELECTRICAL FOR MORE INFORMATION.
8. OFF-THE-SHELF ITEMS SPECIFIED WITH THE STRUCTURE SUCH AS FELT PANELS AND CEILING T-GRID ARE TO BE COORDINATED WITH THE MANUFACTURE FOR ATTACHMENTS, FITMENT AND ALIGNMENT.

FEATURE CEILING LEGEND:

TURF DESIGN - CEILING SCAPE SLICE TILES

COMBINATION INSTALLATION

C - 24" W x 24" L x 10" D
D - 24" W x 24" L x 6" D
E - 24" W x 24" L x 4" D

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LEE'S SUMMIT, MISSOURI

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MO Certificate of Authority #000767

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LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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PROJECT NO:	2403
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ENLARGED CEILING PLANS

A-410

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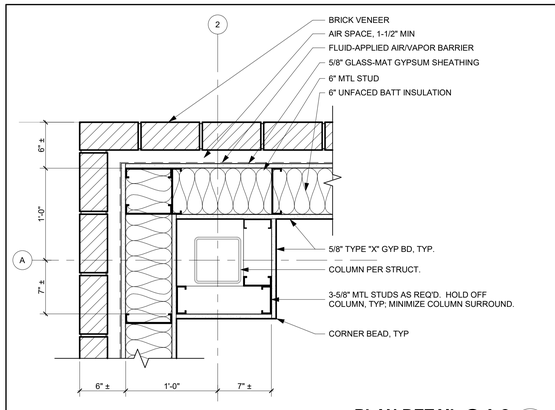

PLAN DETAIL @ A-2 12
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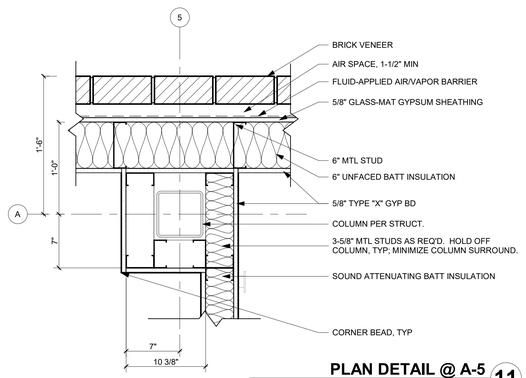

PLAN DETAIL @ A-5 11
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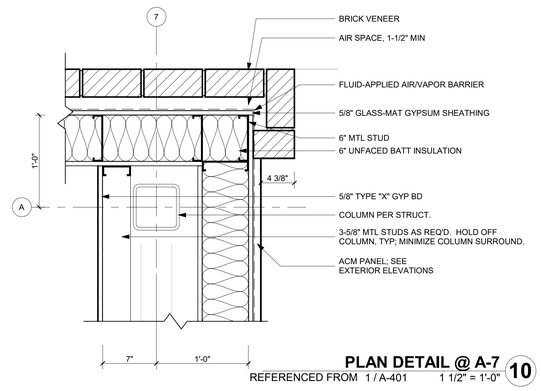

PLAN DETAIL @ A-7 10
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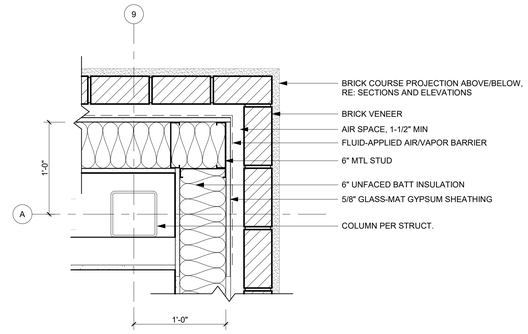

PLAN DETAIL @ A-10 9
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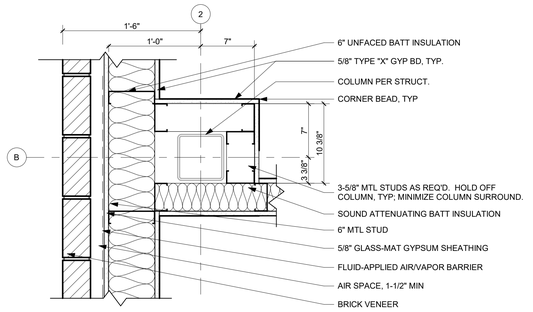

PLAN DETAIL @ B-2 8
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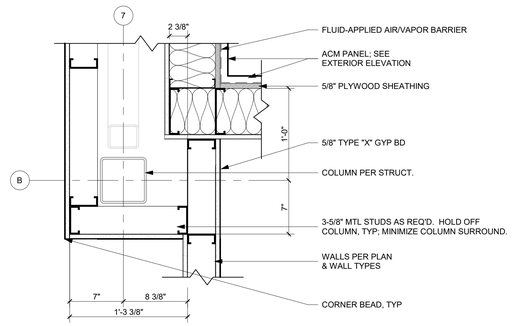

PLAN DETAIL @ B-7 7
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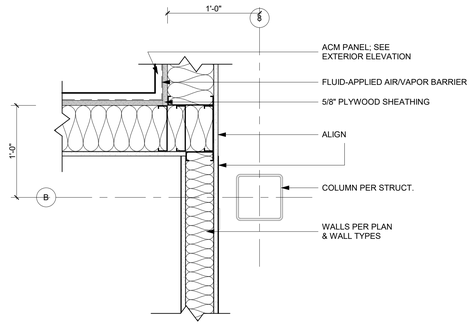
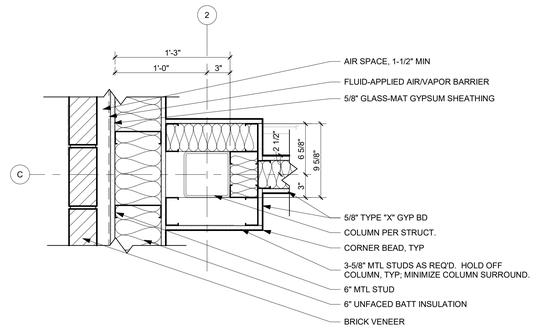


PLAN DETAIL @ B-8 6
REFERENCED FROM 1 / A-401 1 1/2" = 1'-0"



PLAN DETAIL @ C-2 5
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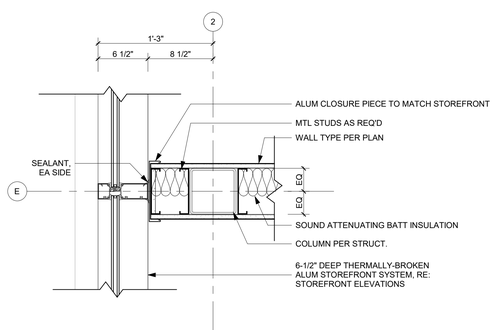
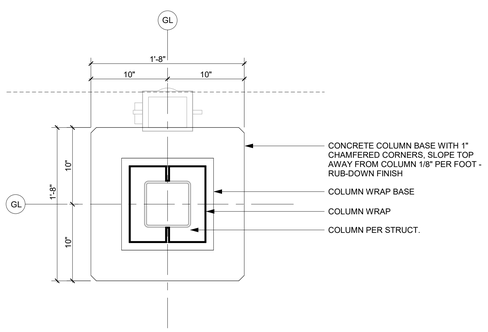


PLAN DETAIL @ E-2, TYPICAL WALL @ MULLION 4
REFERENCED FROM 1 / A-401 1 1/2" = 1'-0"



PLAN DETAIL @ C-1 3
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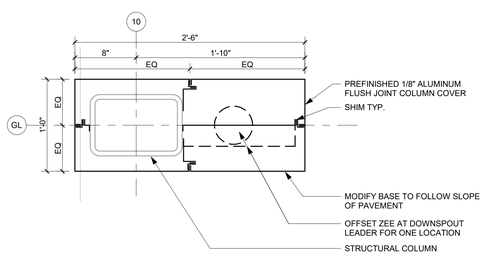

PLAN DETAIL @ E-11 2
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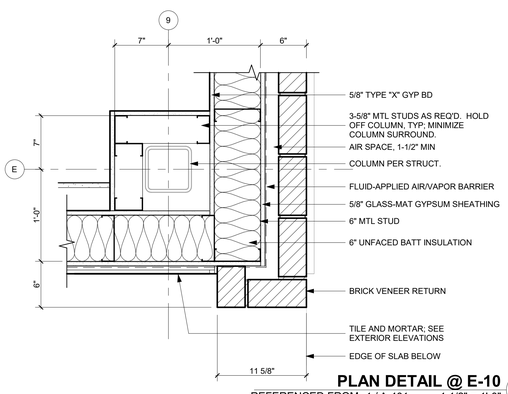

PLAN DETAIL @ E-10 1
REFERENCED FROM 1 / A-401 1 1/2" = 1'-0"

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LEE'S SUMMIT, MISSOURI

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11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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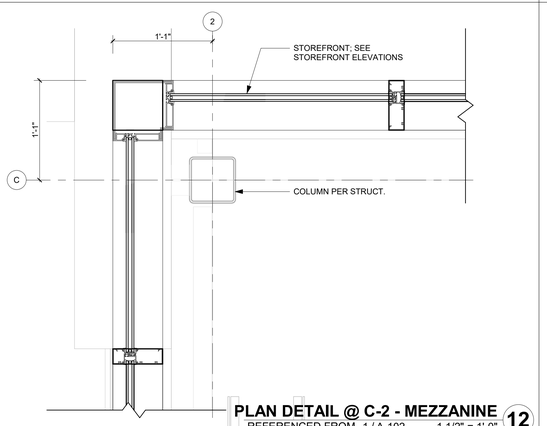
APPROVED BY:	Approver

SHEET TITLE

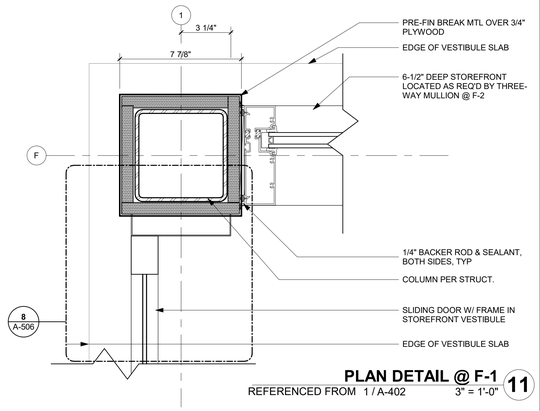
PLAN DETAILS

A-501

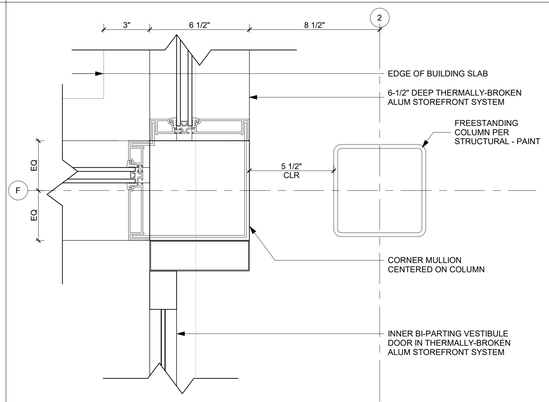
SHEET OF



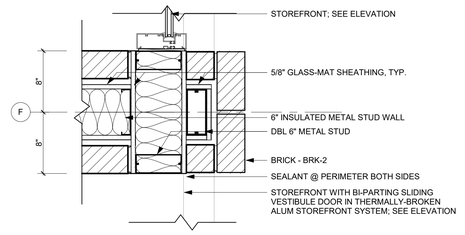
PLAN DETAIL @ C-2 - MEZZANINE 12
REFERENCED FROM 1 / A-102 1 1/2" = 1'-0"



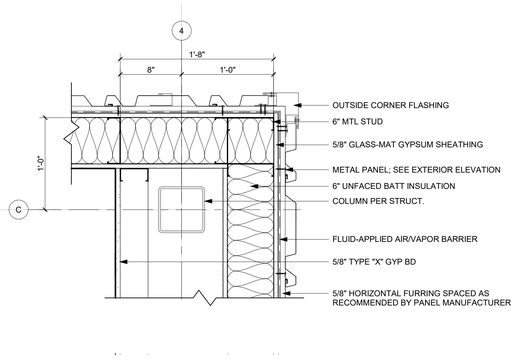
PLAN DETAIL @ F-1 11
REFERENCED FROM 1 / A-402 3" = 1'-0"



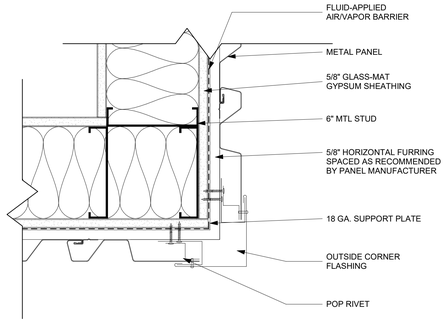
PLAN DETAIL @ F-2 10
REFERENCED FROM 1 / A-402 3" = 1'-0"



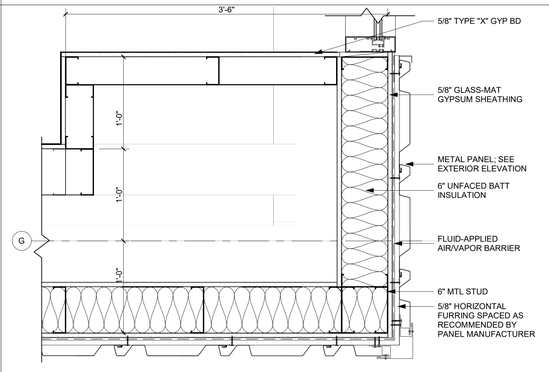
PLAN DETAIL @ STOREFRONT - GRID F 9
REFERENCED FROM 1 / A-402 1 1/2" = 1'-0"



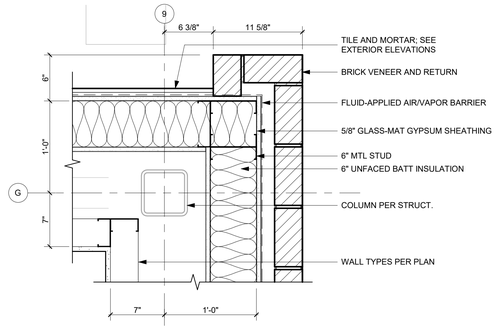
PLAN DETAIL @ C-4 - MEZZANINE 8
REFERENCED FROM 1 / A-102 1 1/2" = 1'-0"



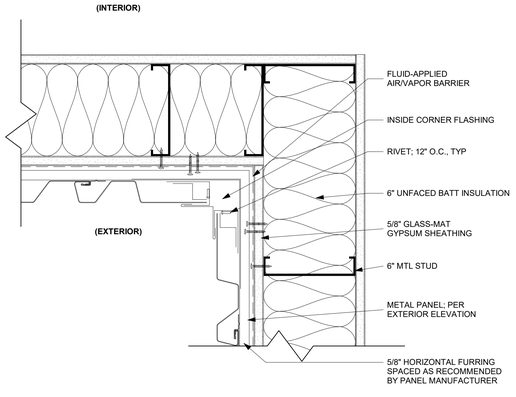
PLAN DETAIL - OUTSIDE CORNER @ MTL PANEL 7
REFERENCED FROM 1 / A-102 3" = 1'-0"



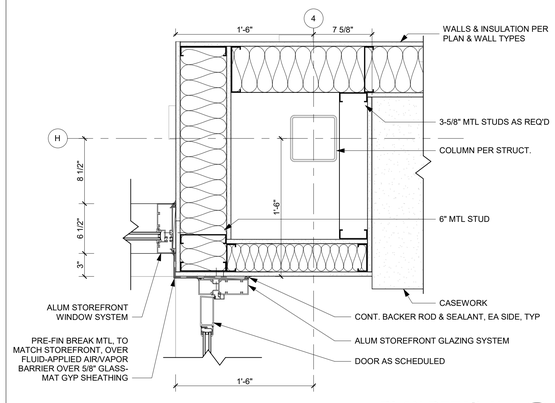
PLAN DETAIL @ GRID G 6
REFERENCED FROM 1 / A-102 1 1/2" = 1'-0"



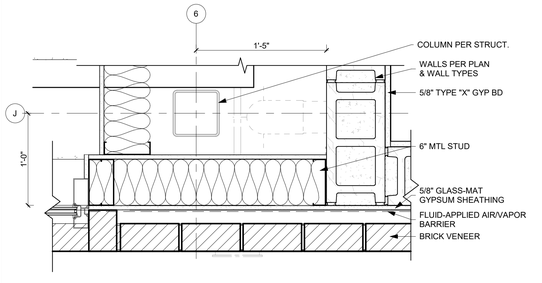
PLAN DETAIL @ G-9 5
REFERENCED FROM 1 / A-402 1 1/2" = 1'-0"



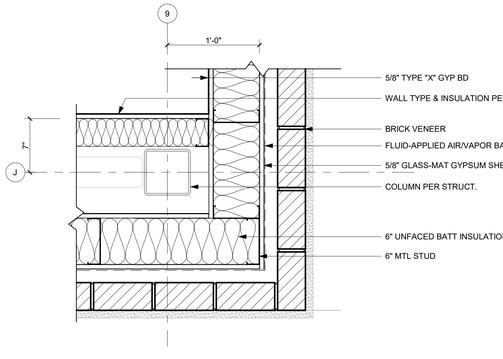
PLAN DETAIL - INSIDE CORNER @ MTL PANEL 4
REFERENCED FROM 1 / A-102 3" = 1'-0"



PLAN DETAIL H-4 3
REFERENCED FROM 1 / A-402 1 1/2" = 1'-0"



PLAN DETAIL J-6 2
REFERENCED FROM 1 / A-402 1 1/2" = 1'-0"



PLAN DETAIL @ J-10 1
REFERENCED FROM 1 / A-402 1 1/2" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000787 - STATE OF MISSOURI JULIE BLACK WELLNER NUMBER A-5006 REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver
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SHEET TITLE

PLAN DETAILS

A-502

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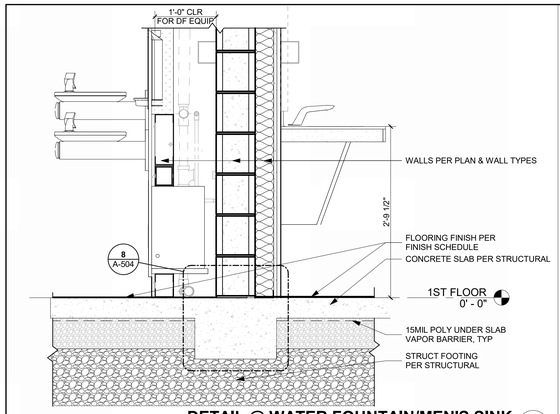
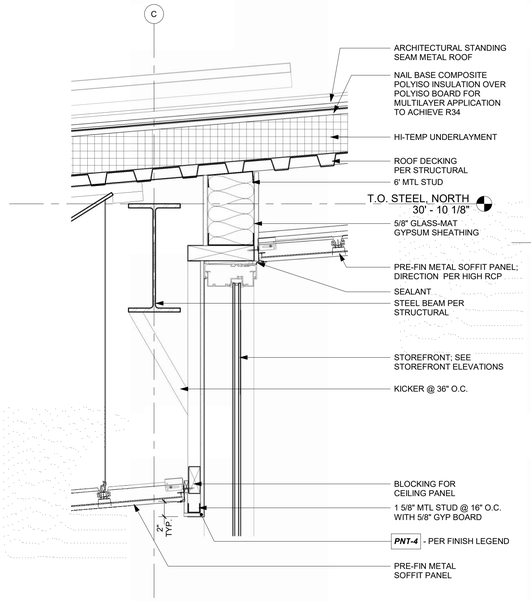
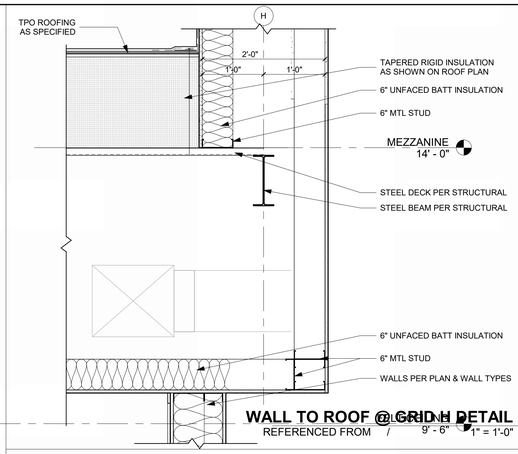


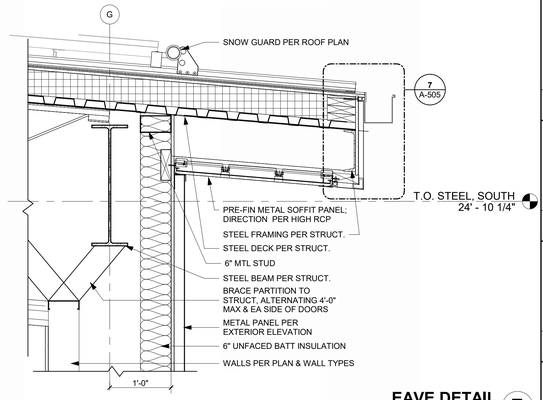
DETAIL @ WATER FOUNTAIN/MEN'S SINK 9
REFERENCED FROM 1 / A-402 1" = 1'-0"



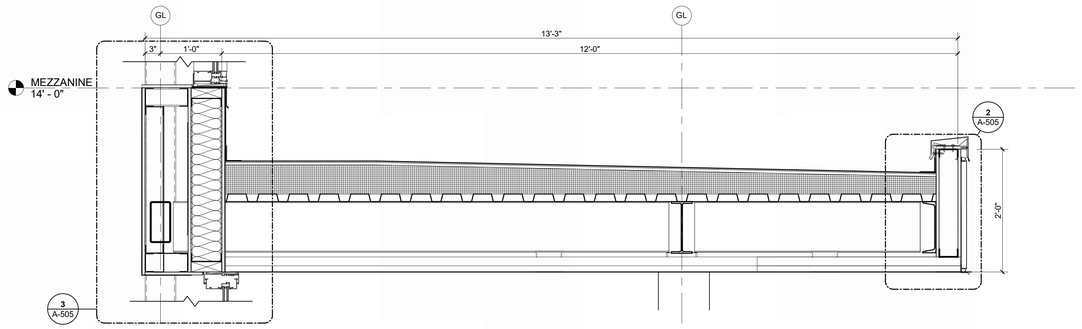
TYPICAL SECTION THRU NORTH MEZZANINE WALL @ STOREFRONT 6
REFERENCED FROM 2 / A-314 1 1/2" = 1'-0"



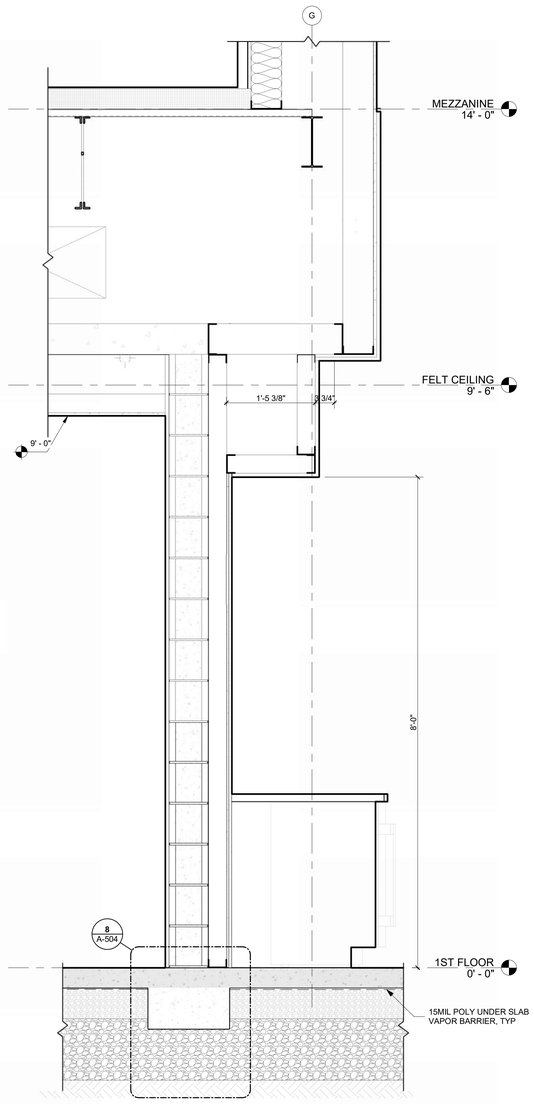
WALL TO ROOF @ GRID H DETAIL 8
REFERENCED FROM / 9' - 6" 1" = 1'-0"



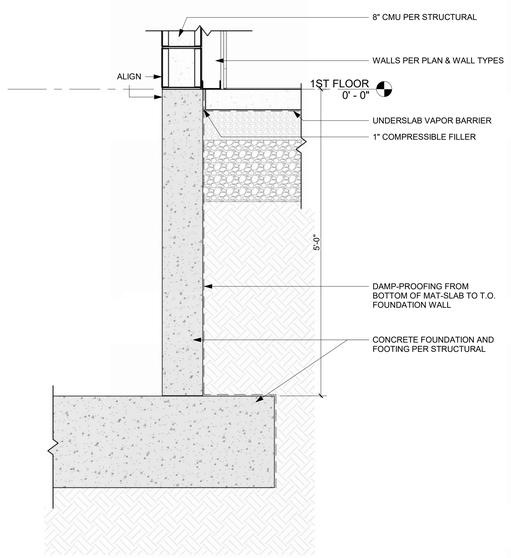
EAVE DETAIL 7
REFERENCED FROM 3 / A-313 1" = 1'-0"



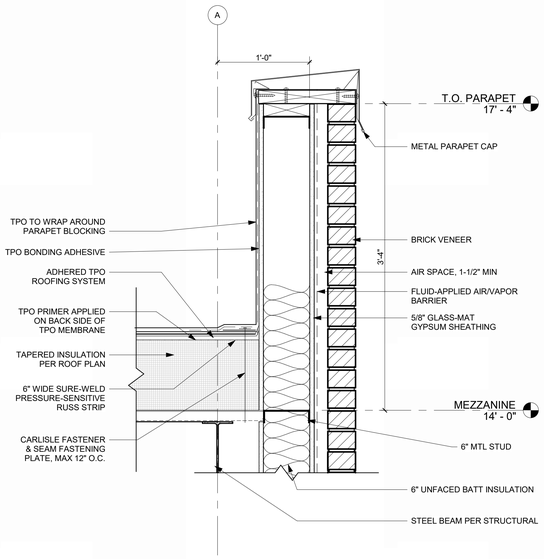
TYPICAL SECTION THROUGH AIRSIDE CANOPY 5
REFERENCED FROM 4 / A-301 1" = 1'-0"



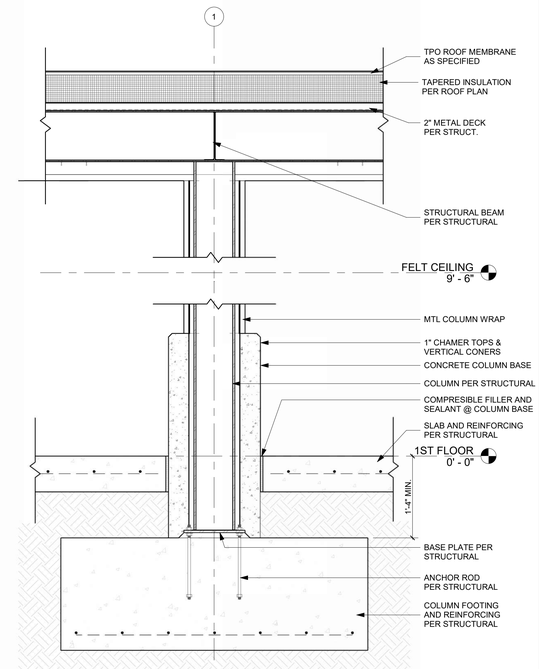
COFFEE 101A DETAIL 4
REFERENCED FROM 2 / A-301 1" = 1'-0"



ELEVATOR PIT FOUNDATION DETAIL 3
REFERENCED FROM 3 / A-405 1" = 1'-0"



TYPICAL PARAPET DETAIL 2
REFERENCED FROM 1 / A-310 1 1/2" = 1'-0"



EXTERIOR COLUMN DETAIL 1
REFERENCED FROM 1 / A-121 1" = 1'-0"

11/27/2024 9:19:45 AM

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LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

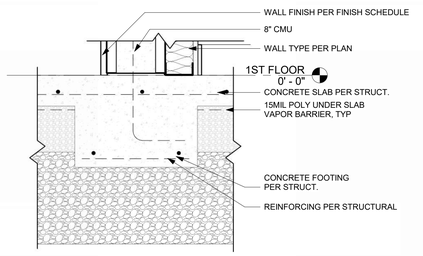
LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

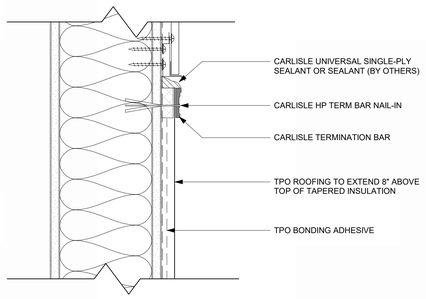
SHEET TITLE
SECTION DETAILS

A-503
SHEET OF

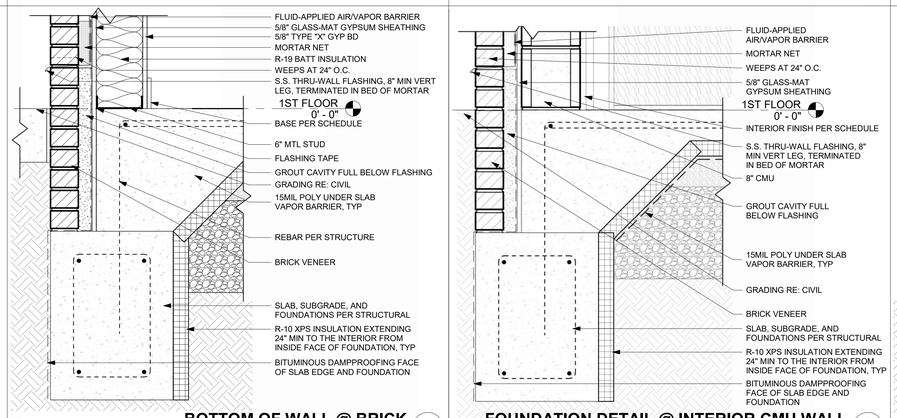


INTERIOR FOOTING DETAIL @ CMU WALL 8
REFERENCED FROM 4 / A-503 1 1/2" = 1'-0"

ROOF MOUNTED SCREEN DETAIL 3
REFERENCED FROM 1 / A-103 1 1/2" = 1'-0"

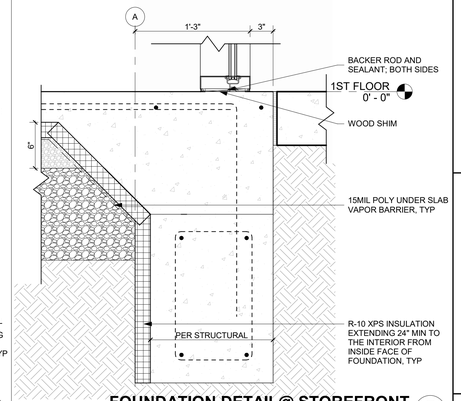


TPO TERMINATION @ WALL, TYP 4
REFERENCED FROM 1 / A-505 3" = 1'-0"

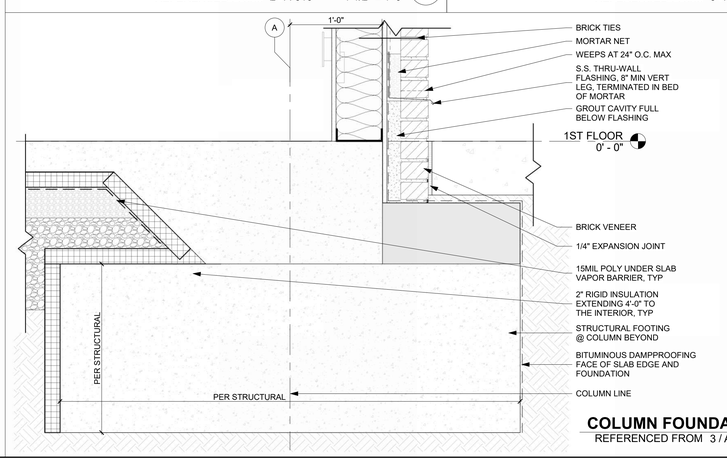


BOTTOM OF WALL @ BRICK 7
REFERENCED FROM 2 / A-310 1 1/2" = 1'-0"

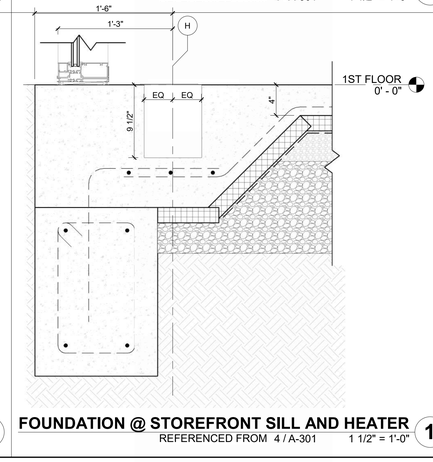
FOUNDATION DETAIL @ INTERIOR CMU WALL 6
REFERENCED FROM 3 / A-310 1 1/2" = 1'-0"



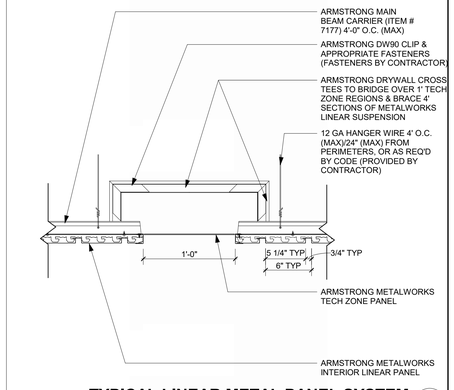
FOUNDATION DETAIL@ STOREFRONT 5
REFERENCED FROM 4 / A-301 1 1/2" = 1'-0"



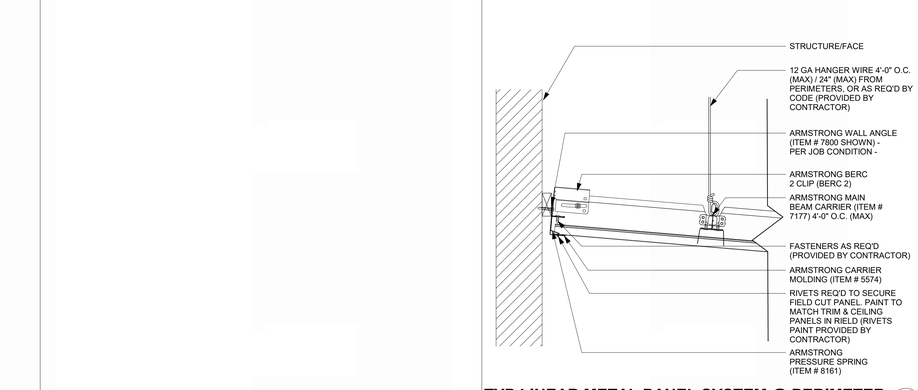
COLUMN FOUNDATION @ BRICK 2
REFERENCED FROM 3 / A-301 1 1/2" = 1'-0"



FOUNDATION @ STOREFRONT SILL AND HEATER 1
REFERENCED FROM 4 / A-301 1 1/2" = 1'-0"



TYPICAL LINEAR METAL PANEL SYSTEM 9
REFERENCED FROM / 1 1/2" = 1'-0"



TYP LINEAR METAL PANEL SYSTEM @ PERIMETER 10
REFERENCED FROM / 3" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

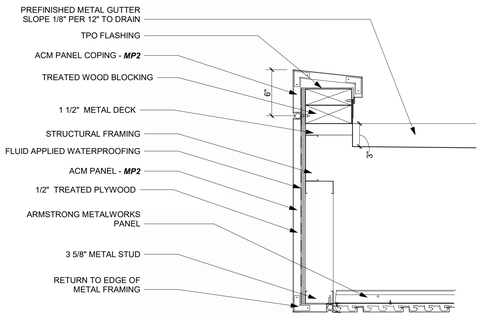
SHEET TITLE

SECTION DETAILS

A-504

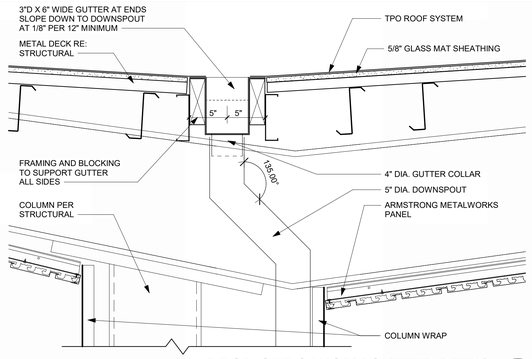
SHEET OF

11/27/2024 9:19:53 AM



DROP-OFF CANOPY END GUTTER DETAIL 14

REFERENCED FROM 1 / A-103 1 1/2" = 1'-0"

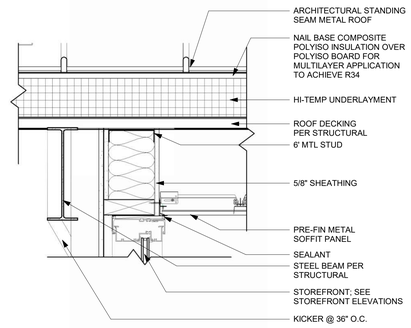


DROP-OFF CANOPY GUTTER DETAIL 13

1 1/2" = 1'-0"

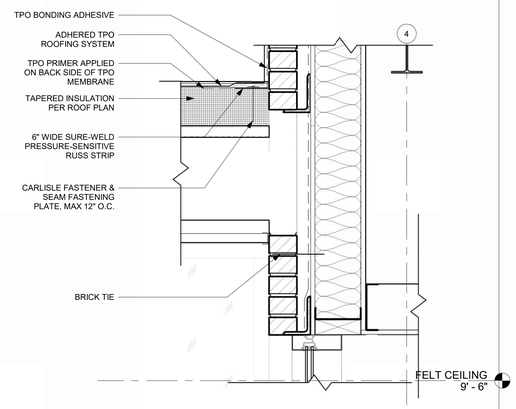
DROP-OFF CANOPY SECTION DETAIL 12

REFERENCED FROM 1 / A-102 1 1/2" = 1'-0"



SECTION THRU MAIN ENTRANCE VESTIBULE - Callout 1 11

REFERENCED FROM 1 / A-312 1 1/2" = 1'-0"

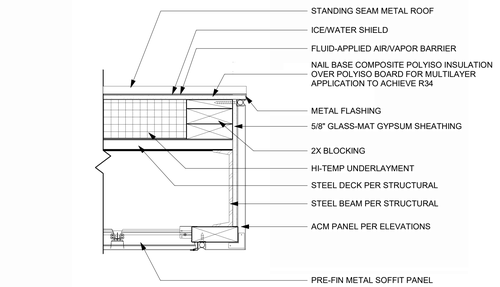


SECTION THRU AIRSIDE LOW ROOF @ BRICK 10

REFERENCED FROM 2 / A-311 1 1/2" = 1'-0"

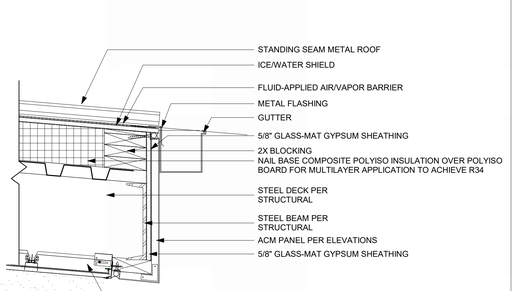
FLAT ROOF CONNECTION @ EXTERIOR WALL 9

REFERENCED FROM 1 / A-312 1 1/2" = 1'-0"



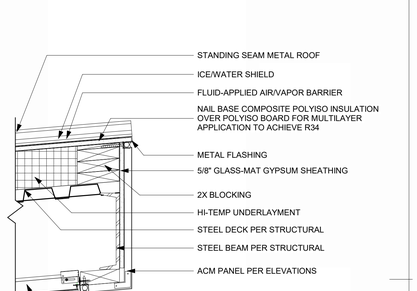
TYP EAVE DETAIL 8

REFERENCED FROM 1 / A-312 1 1/2" = 1'-0"



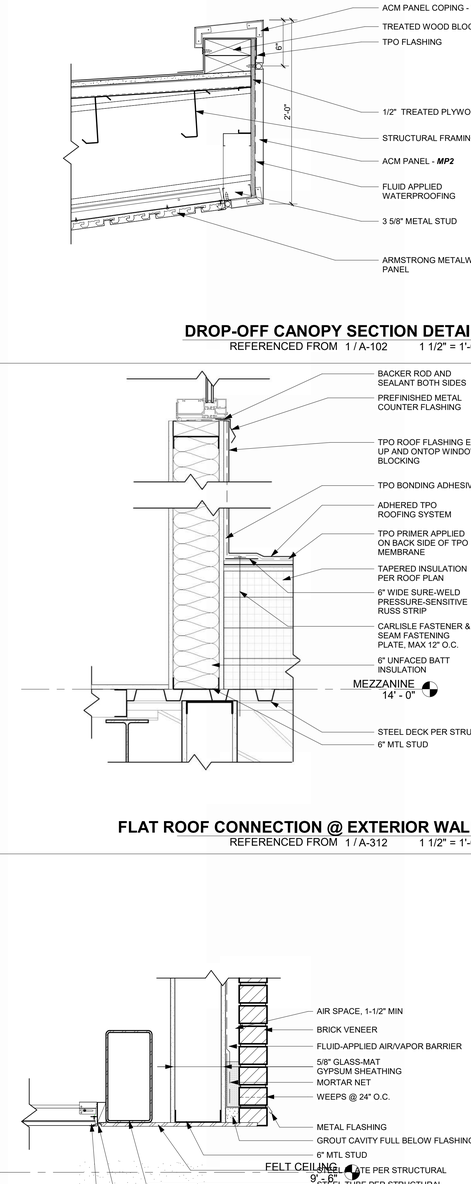
FASCIA @ EDGE OF ROOF WITH GUTTER 7

REFERENCED FROM 7 / A-503 1 1/2" = 1'-0"



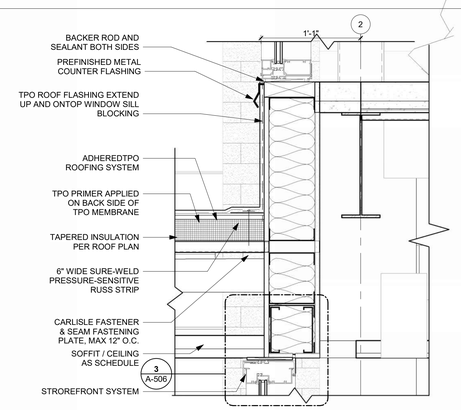
TYP ROOF HIGH EAVE DETAIL 6

REFERENCED FROM 2 / A-314 1 1/2" = 1'-0"



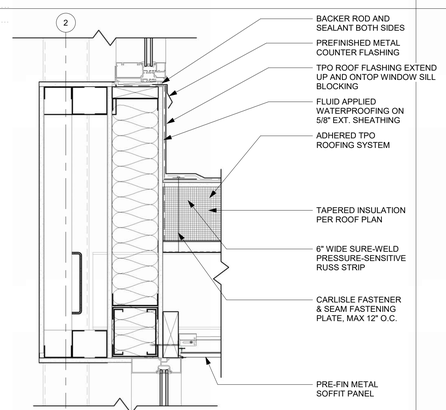
EXTERIOR WALL TO CEILING DETAIL 5

REFERENCED FROM 1 / A-311 1 1/2" = 1'-0"



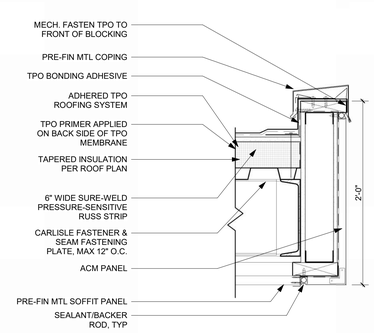
TYP SECTION THRU WEST WALL @ MEZZ @ STRUCT BEAM 4

REFERENCED FROM 2 / A-312 1 1/2" = 1'-0"



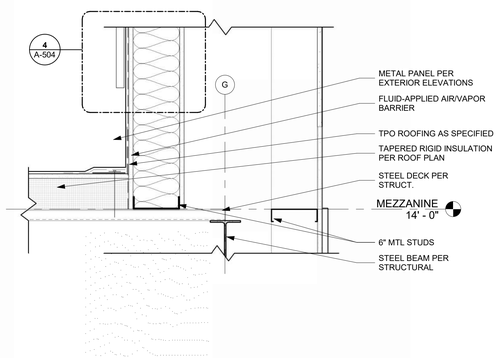
TYPICAL SECTION THRU WEST (AIRSIDE) VESTIBULE 3

REFERENCED FROM 3 / A-312 1 1/2" = 1'-0"



OVERHANG DETAIL @ FASCIA 2

REFERENCED FROM 1 / A-312 1 1/2" = 1'-0"



WALL TO ROOFING @ COFFEE 101A DETAIL 1

REFERENCED FROM / 1 1/2" = 1'-0"

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GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NOTARY PUBLIC
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver

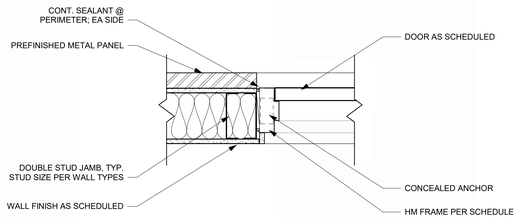
SHEET TITLE

SECTION DETAILS

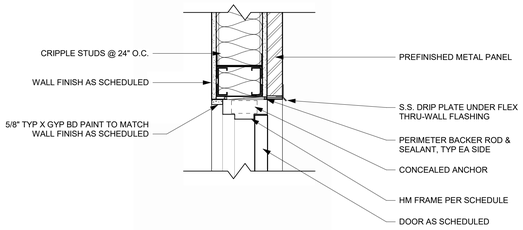
A-505

SHEET OF

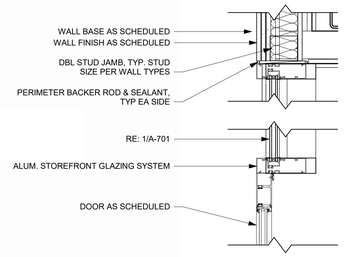
11/27/2024 9:20:09 AM



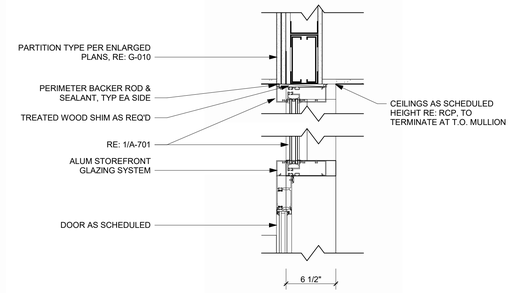
HM DOOR JAMB @ METAL PANEL 16
REFERENCED FROM / 1 1/2" = 1'-0"



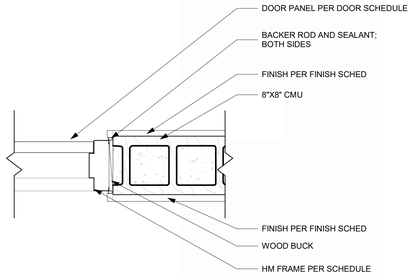
HM DOOR HEAD @ METAL PANEL 15
REFERENCED FROM / 1 1/2" = 1'-0"



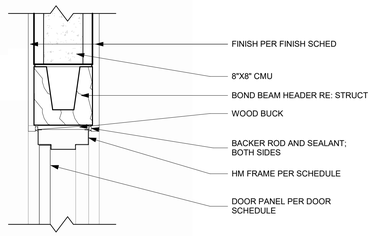
INTERIOR STOREFRONT & DOOR JAMB 14
REFERENCED FROM / 1 1/2" = 1'-0"



INTERIOR STOREFRONT & DOOR HEAD 13
REFERENCED FROM / 1 1/2" = 1'-0"



HM DOOR JAMB @ CMU 12
REFERENCED FROM / 1 1/2" = 1'-0"



HM DOOR HEAD @ CMU 11
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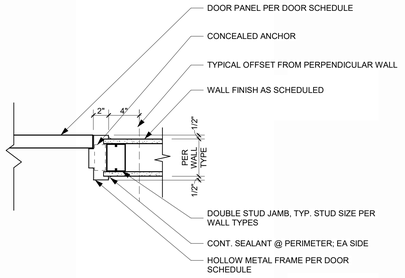
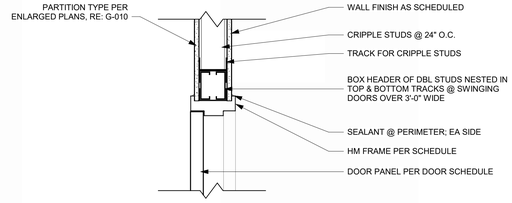
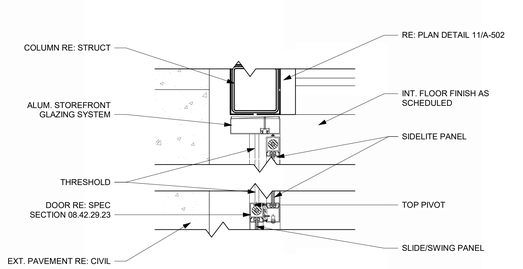


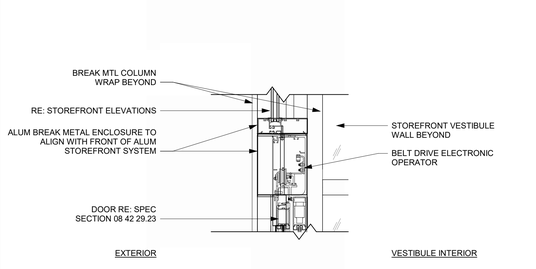
HM DOOR JAMB @ METAL STUD 10
REFERENCED FROM / 1 1/2" = 1'-0"



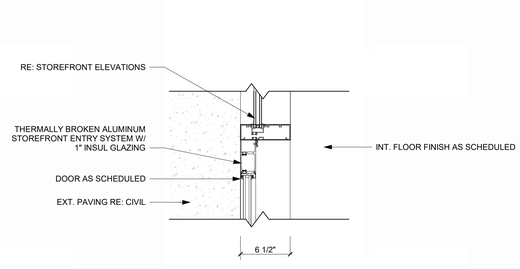
HM DOOR HEAD @ METAL STUD 9
REFERENCED FROM / 1 1/2" = 1'-0"



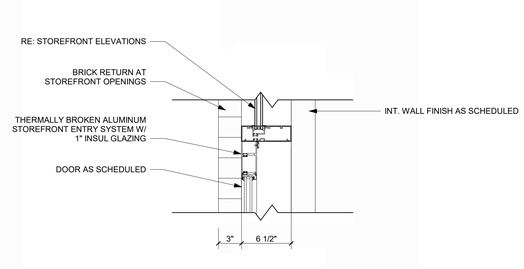
SLIDING DOOR JAMB 8
REFERENCED FROM 11 / A-502 1 1/2" = 1'-0"



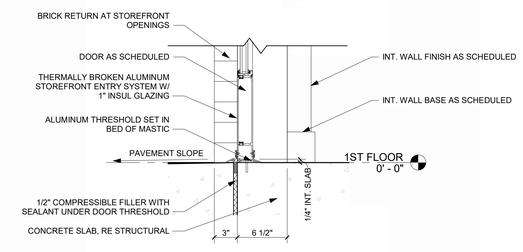
SLIDING DOOR HEAD 7
REFERENCED FROM 5 / A-623 1 1/2" = 1'-0"



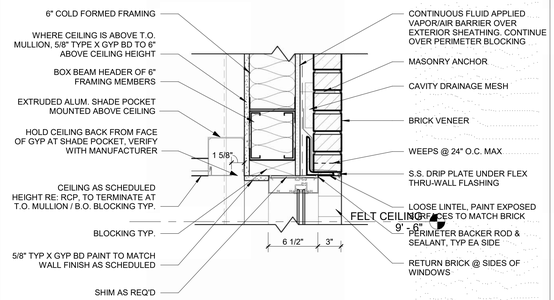
STOREFRONT DOOR JAMB 6
REFERENCED FROM / 1 1/2" = 1'-0"



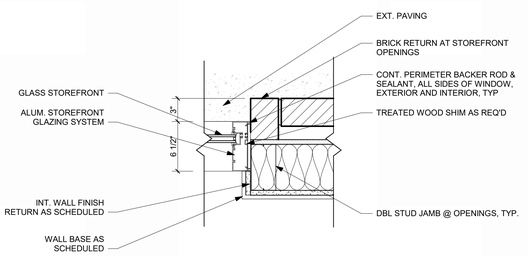
STOREFRONT DOOR HEAD 5
REFERENCED FROM / 1 1/2" = 1'-0"



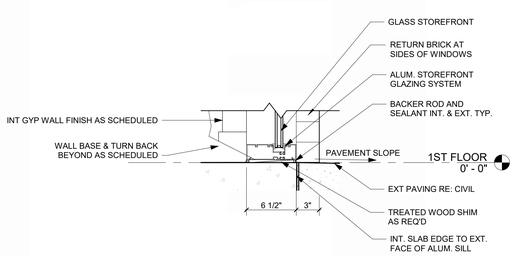
STOREFRONT DOOR SILL THRESHOLD 4
REFERENCED FROM 2 / A-312 1 1/2" = 1'-0"



STOREFRONT HEAD @ BRICK 3
REFERENCED FROM 1 / A-310 1 1/2" = 1'-0"



STOREFRONT JAMB @ BRICK 2
REFERENCED FROM 1 / A-310 1 1/2" = 1'-0"



STOREFRONT SILL @ BRICK 1
REFERENCED FROM 1 / A-310 1 1/2" = 1'-0"

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

- Julie Black Wellner - Architect - MO #A-5006 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
- MO Certificate of Authority #000767 -

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

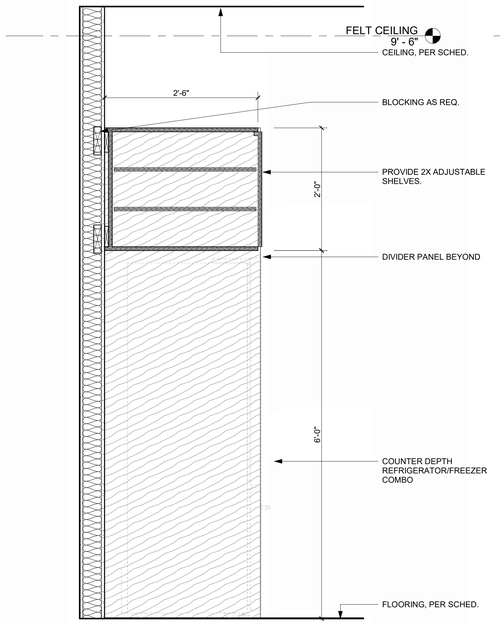
SHEET TITLE

DOOR, WINDOW, STOREFRONT DETAILS

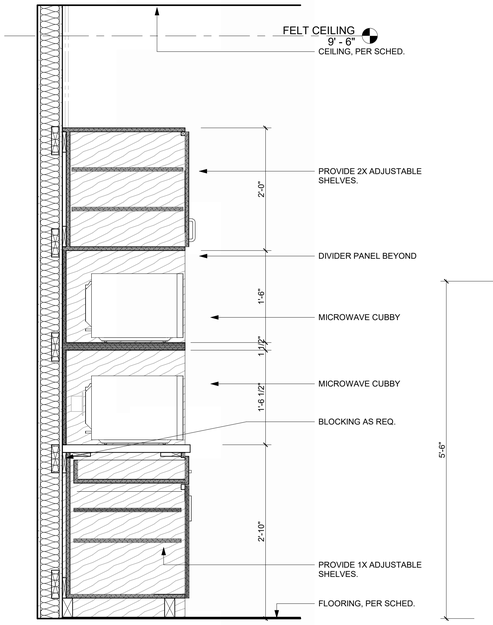
A-506

SHEET OF

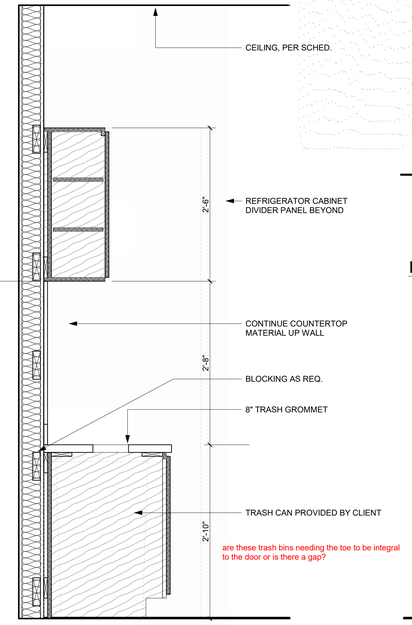
11/27/2024 9:20:16 AM



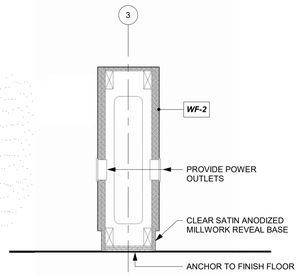
BREAKROOM REFRIGERATOR CABINET, DETAIL, TYP. 18
REFERENCED FROM 1 / A-401 1" = 1'-0"



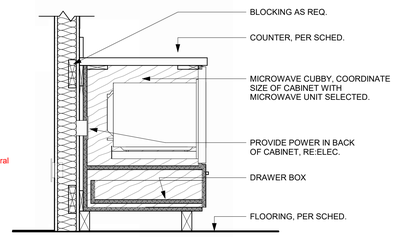
OFFICE BREAKROOM MICROWAVE CAB, DETAIL 17
REFERENCED FROM 1 / A-401 1" = 1'-0"



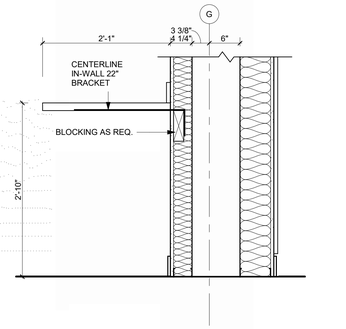
OFFICE BREAKROOM TRASH CAB 16
REFERENCED FROM 1 / A-401 1" = 1'-0"



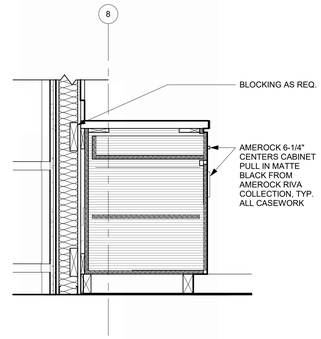
PONY WALL @ PASSENGER WAITING 15
REFERENCED FROM 1 / A-402 1" = 1'-0"



MICROWAVE LOWER CAB, TYP. 13
REFERENCED FROM 1 / A-401 1" = 1'-0"



PILOT LOUNGE CASEWORK DETAIL 14
REFERENCED FROM 1 / A-402 1" = 1'-0"



DOOR DRAWER CASEWORK, TYP. 12
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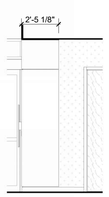
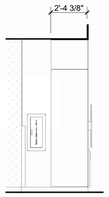
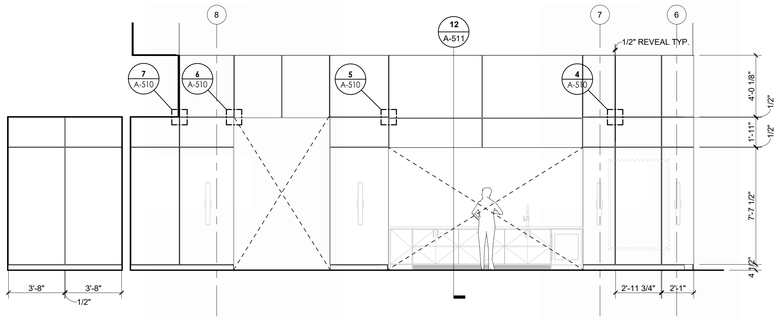


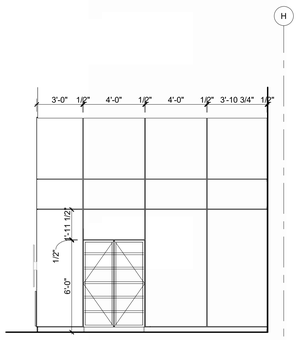
WALL PANELING EAST @ HALLWAY 11
1/4" = 1'-0"



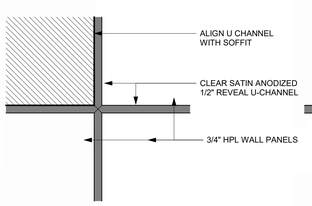
WALL PANELING WEST @ HALLWAY 10
1/4" = 1'-0"



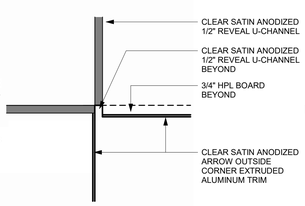
WALL PANELING SOUTH 9
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



WALL PANELING EAST 8
1/4" = 1'-0"



MILLWORK DETAIL @ SOFFIT 7
3" = 1'-0"



MILLWORK DETAIL @ OPENING 6
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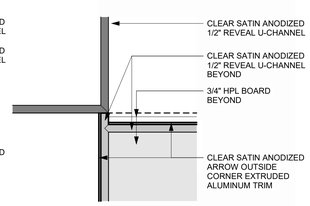
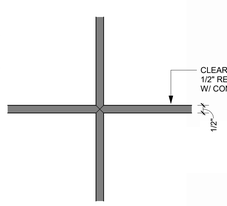


MILLWORK DETAILS ABOVE CASEWORK 5
3" = 1'-0"



MILLWORK DETAIL, TYP. 4
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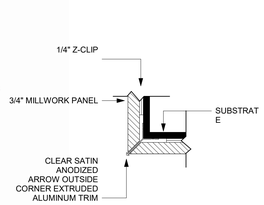

MILLWORK DETAIL - OUTSIDE CORNER 3
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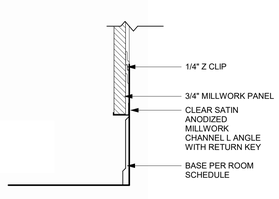
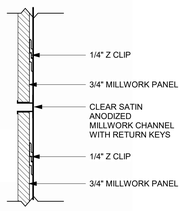


MILLWORK DETAIL - BOTTOM PANEL 2
3" = 1'-0"



MILLWORK DETAIL - WALL PANELS 1
3" = 1'-0"

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000787

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

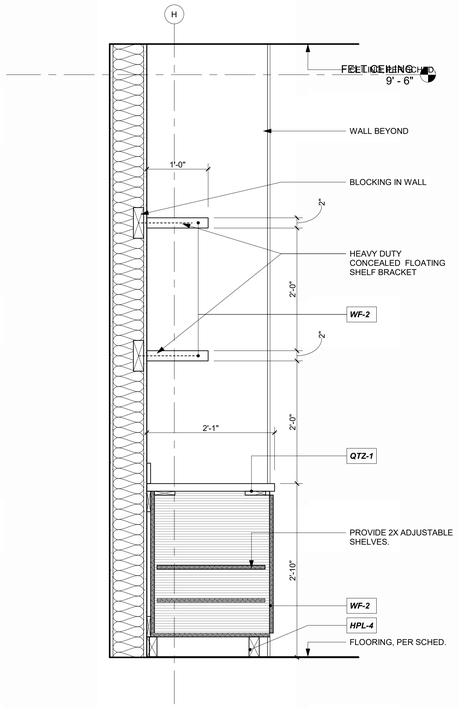
MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	HJM
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
COPYRIGHT 2024	

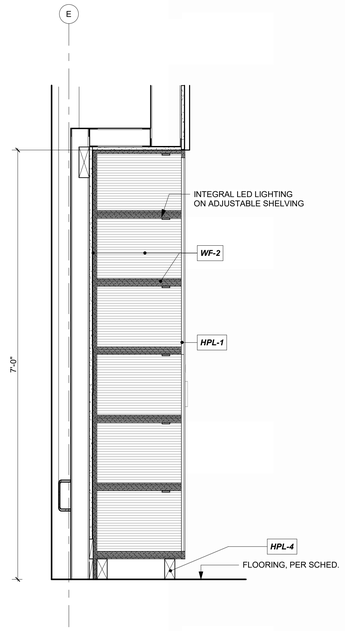
SHEET TITLE
MILLWORK DETAILS

A-510
SHEET OF

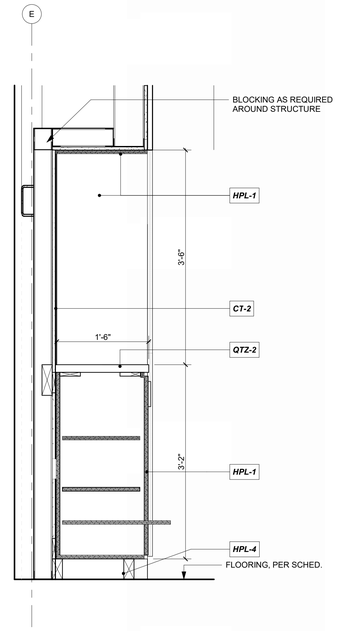
11/27/2024 9:20:33 AM



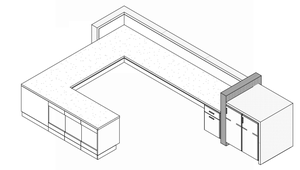
COFFEE BAR @ QUIET/SENSORY WAITING, 129 13
1" = 1'-0"



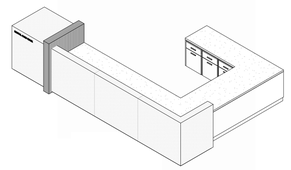
PILOT STORE @ CONCOURSE STAIRS 10
1" = 1'-0"



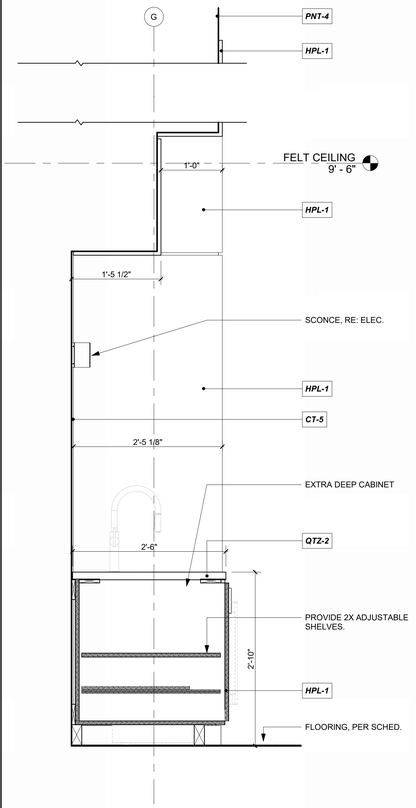
FLIGHT PLANNING @ CONCOURSE STAIRS 9
1" = 1'-0"



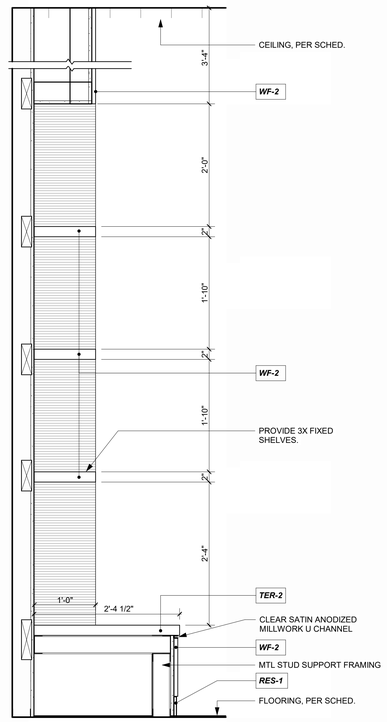
RECEPTION DESK 2 8



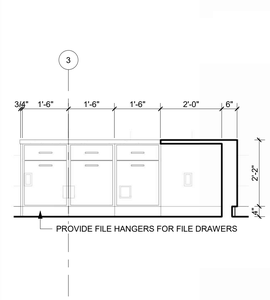
RECEPTION DESK 1 7



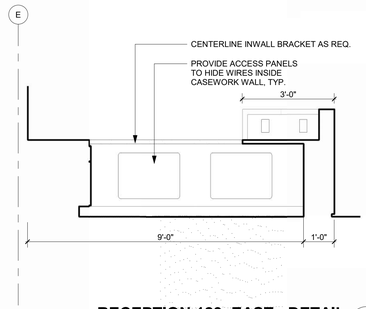
COFFEE BAR @ CONCOURSE, 101 12
1" = 1'-0"



MEZZ CASEWORK @ PASSENGER WAITING, 200 11
1" = 1'-0"



RECEPTION 123, NORTH - DETAIL 6
1/2" = 1'-0"



RECEPTION 123, EAST - DETAIL 5
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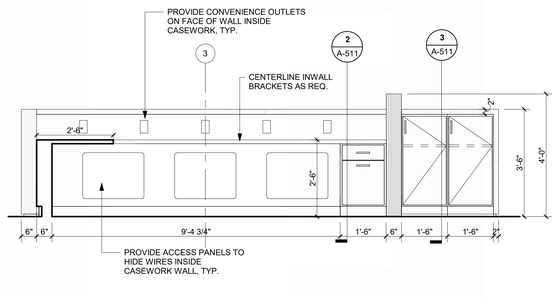
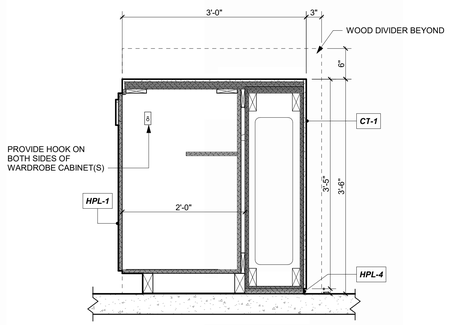
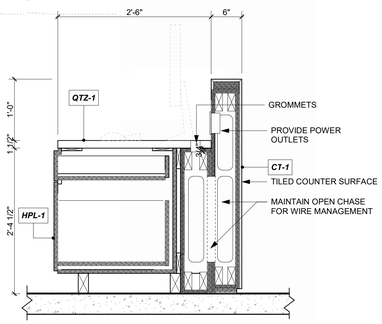


RECEPTION 123, SOUTH - DETAIL 4
1/2" = 1'-0"



SOUTH RECEPTION CASEWORK, DETAIL 1 3
REFERENCED FROM 1 / A-401 1" = 1'-0"



SOUTH RECEPTION CASEWORK, DETAIL 2 2
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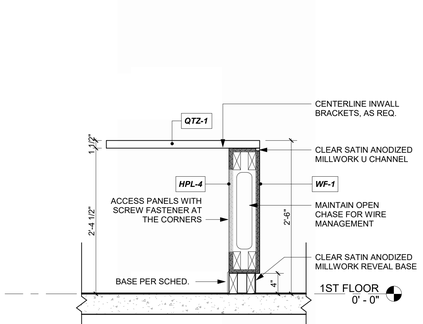

EAST RECEPTION CASEWORK, DETAIL 1
REFERENCED FROM 1 / A-401 1" = 1'-0"

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #0007167 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	HJM
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
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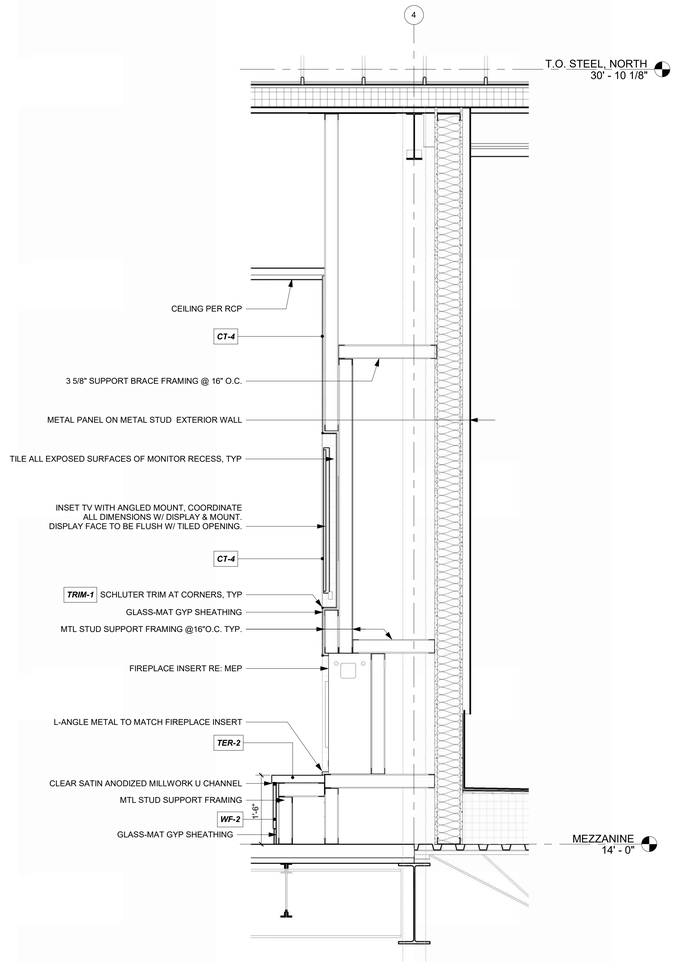
SHEET TITLE

MILLWORK DETAILS

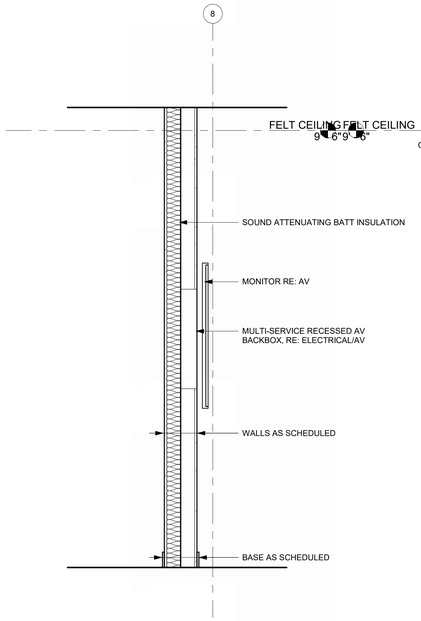
A-511

SHEET OF

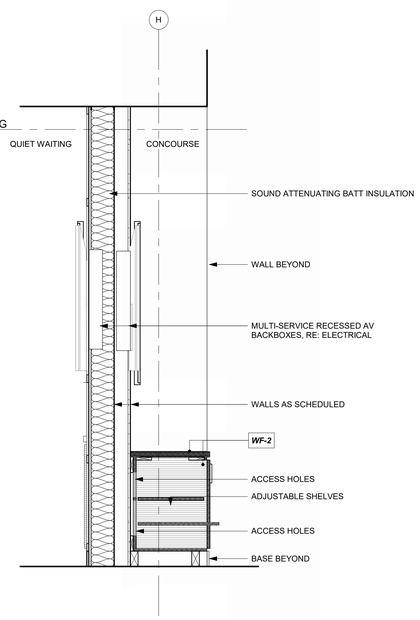
11/27/2024 9:20:49 AM



FIREPLACE @ PASSENGER WAITING, 200 DETAIL 2
REFERENCED FROM 1 / A-102 3/4" = 1'-0"



SECTION DETAIL @ MONITOR 3
REFERENCED FROM 1 / A-401 3/4" = 1'-0"



SECTION @ DOUBLE MONITOR 1
REFERENCED FROM 1 / A-402 3/4" = 1'-0"

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

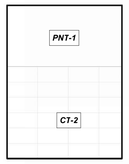
SHEET TITLE

MILLWORK DETAILS

A-512

SHEET OF

11/27/2024 9:20:56 AM



RESTROOM 129A, WEST 20
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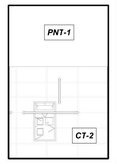

RESTROOM 129A, SOUTH 19
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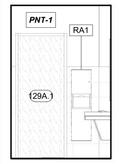
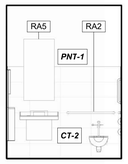
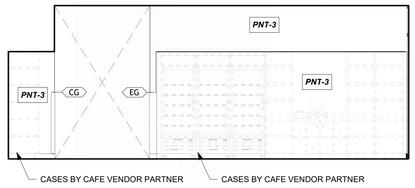


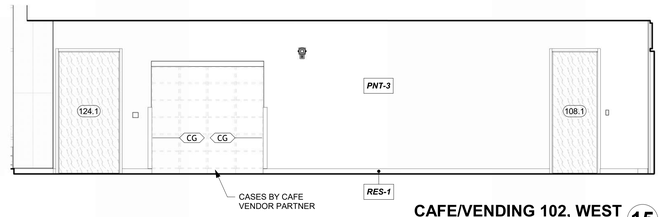
RESTROOM 129A, NORTH 18
REFERENCED FROM 1 / A-102 1/4" = 1'-0"



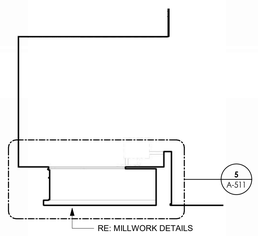
RESTROOM 129A, EAST 17
REFERENCED FROM 1 / A-102 1/4" = 1'-0"

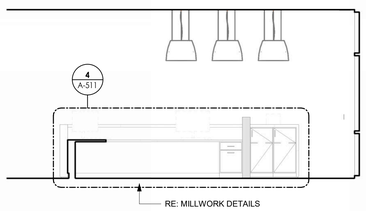


CAFE/VENDING 102, NORTH 16
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



CAFE/VENDING 102, WEST 15
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

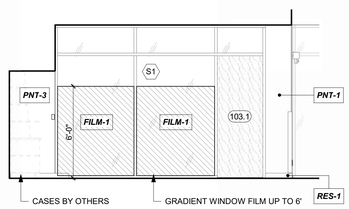




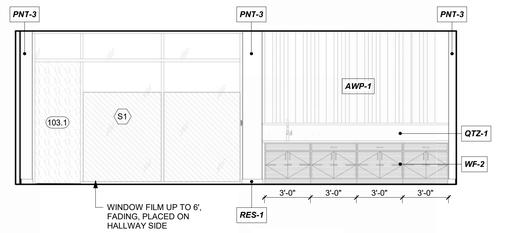
RECEPTION 123, EAST 14
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

RECEPTION 123, SOUTH 13
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

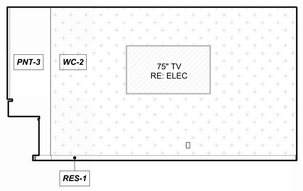
RECEPTION 123, WEST 12
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



CAFE/VENDING 102 AND CONCOURSE 101, EAST 11
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



BUSINESS CENTER 103, WEST 10
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



BUSINESS CENTER 103, NORTH 9
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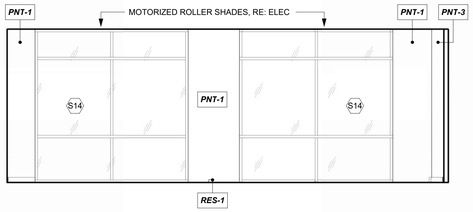

BUSINESS CENTER 103, EAST 8
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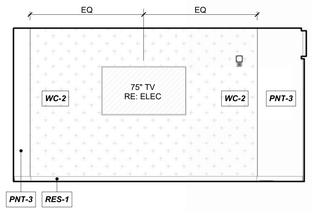

BUSINESS CENTER 103, SOUTH 7
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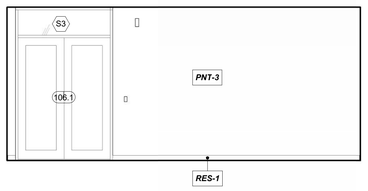

CIRCULATION 106, NORTH 6
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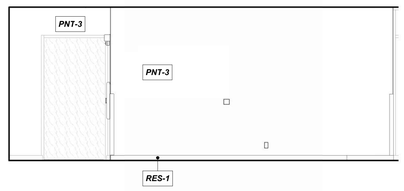

CIRCULATION 106, EAST 5
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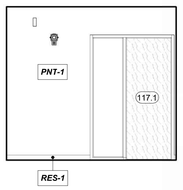

CIRCULATION (PRIVATE) 108, WEST 4
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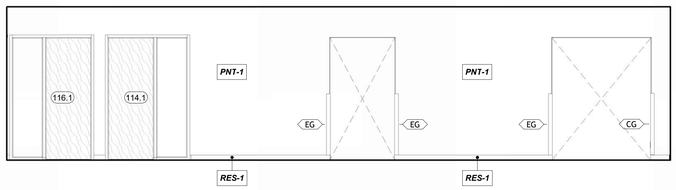

CIRCULATION (PRIVATE) 108, NORTH 3
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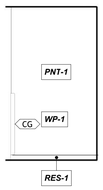
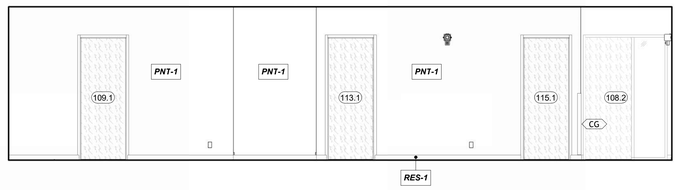


CIRCULATION (PRIVATE) 108, EAST 2
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



CIRCULATION (PRIVATE) 108, SOUTH 1
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

11/27/2024 9:21:13 AM

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006 - MO Certificate of Authority #000767 - STATE OF MISSOURI JULIE BLACK WELLNER NUMBER A-5006 REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

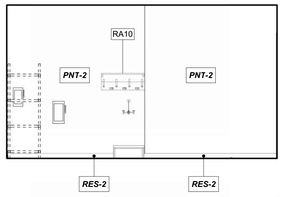
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

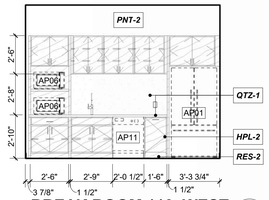
INTERIOR ELEVATIONS

A-601

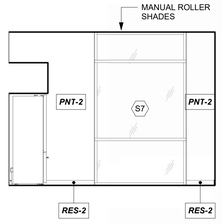
SHEET OF



CUSTODIAL 109, WEST 33
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

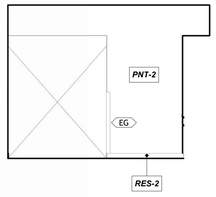


BREAK ROOM 110, WEST 32
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



BREAK ROOM 110, NORTH 31
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

BREAK ROOM 110, EAST 30
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



BREAK ROOM 110, SOUTH 29
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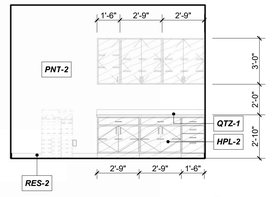

WORK ROOM 112, WEST 28
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

WORK ROOM 112, NORTH 27
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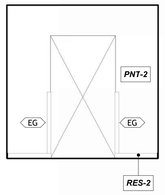

WORK ROOM 112, SOUTH 26
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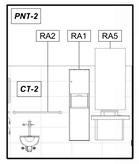

TERMINAL RESTROOM 01, WEST 25
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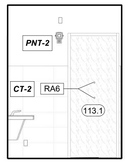

TERMINAL RESTROOM 01, NORTH 24
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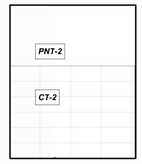

TERMINAL RESTROOM 01, EAST 23
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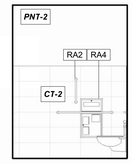

TERMINAL RESTROOM 01, SOUTH 22
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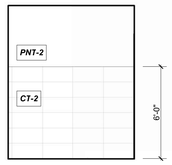

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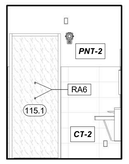

TERMINAL RESTROOM 02, NORTH 20
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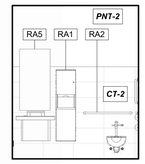
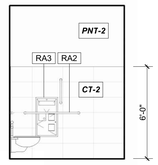
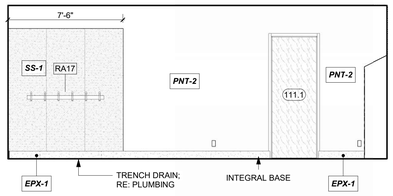


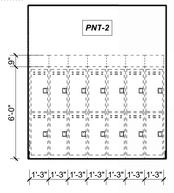
TERMINAL RESTROOM 02, EAST 19
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



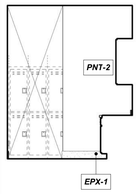
TERMINAL RESTROOM 02, SOUTH 18
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



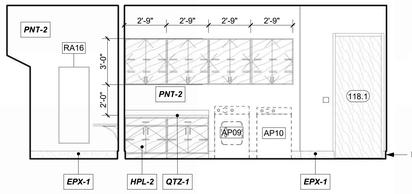
LINE SERVICE WET GEAR 118, NORTH 17
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



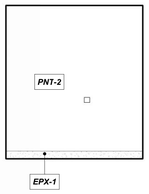
LINE SERVICE LOCKERS 118, EAST 16
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



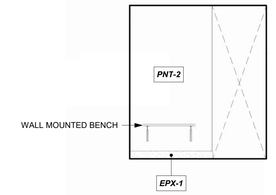
LINE SERVICE WET GEAR 118, EAST 15
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



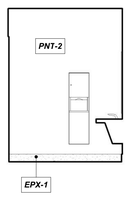
LINE SERVICE WET GEAR 118, SOUTH 14
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



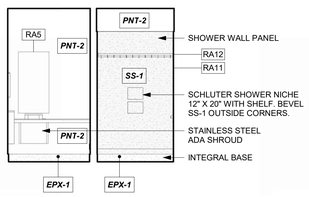
LINE SERVICE WET GEAR 118, WEST 13
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



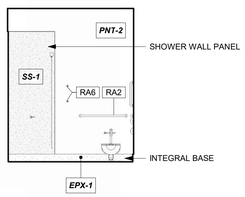
LINE SERVICE LOCKERS 118, WEST 12
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



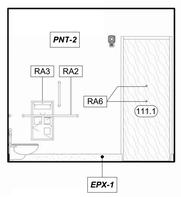
LINE SERVICE RESTROOM, WEST 11
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



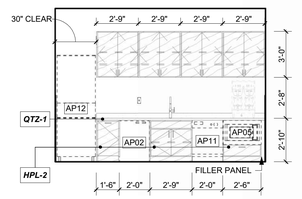
LINE SERVICE RESTROOM, NORTH 10
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



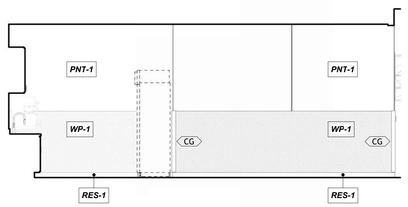
LINE SERVICE RESTROOM, EAST 9
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



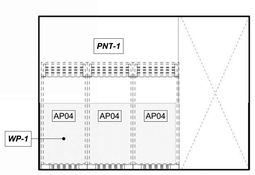
LINE SERVICE RESTROOM, SOUTH 8
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE OFFLOADING 120, EAST 7
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

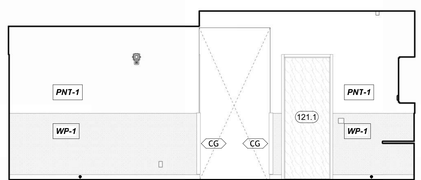


LINE SERVICE OFFLOADING 120, SOUTH 6
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

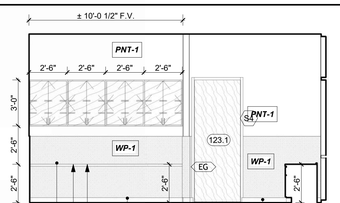


LINE SERVICE OFFLOADING 120, WEST 5
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

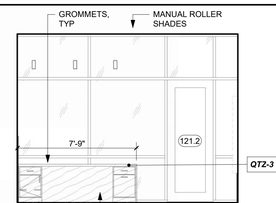
LINE SERVICE WORKROOM 121, NORTH 4
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE WORKROOM 121, EAST 3
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE WORKROOM 121, SOUTH 2
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE WORKROOM 121, WEST 1
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER A-5006
REGISTERED ARCHITECT
- MO Certificate of Authority #000787 -

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
COPYRIGHT 2024	

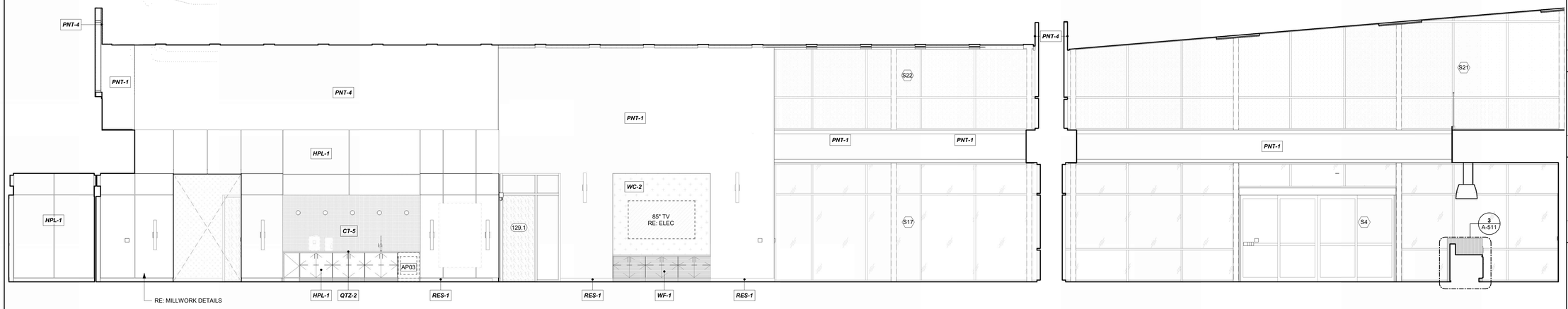
SHEET TITLE

INTERIOR ELEVATIONS

A-602

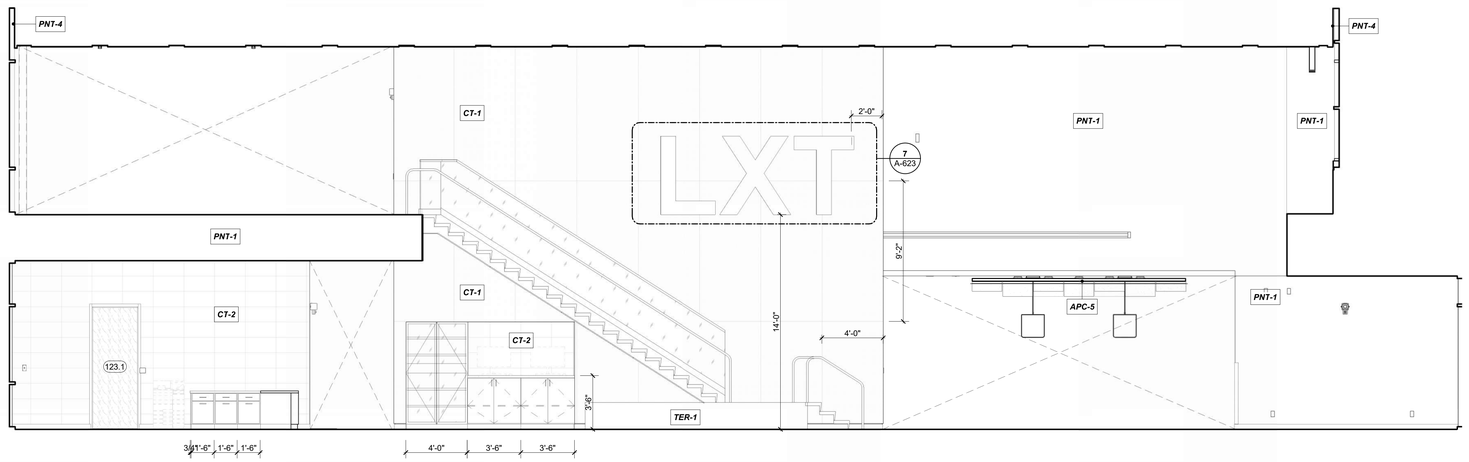
SHEET OF

11/27/2024 9:21:45 AM

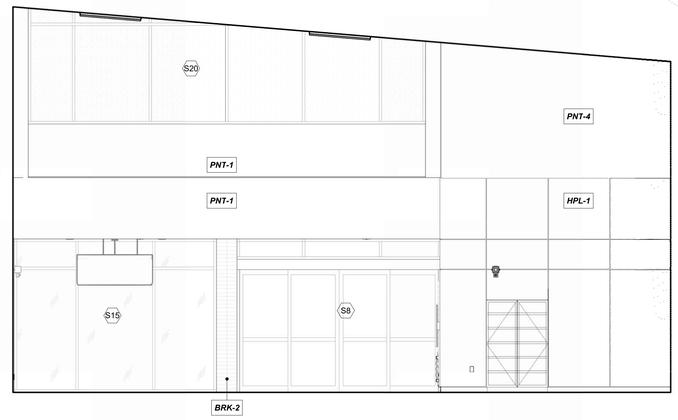


PASSENGER WAITING 128, SOUTH 16
REFERENCED FROM 1 / A-402 1/4" = 1'-0"

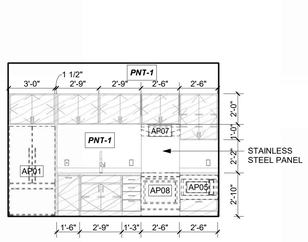
PASSENGER WAITING 128, WEST 15
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



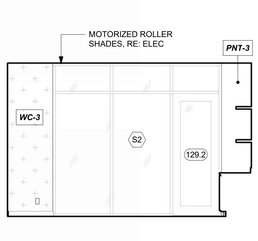
OVERALL CONCOURSE 101, NORTH 14
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



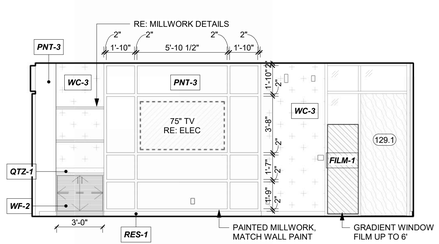
PASSENGER WAITING 128, EAST 13
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



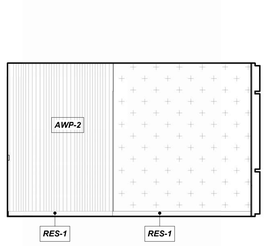
BREAK ROOM 124 12
1/4" = 1'-0"



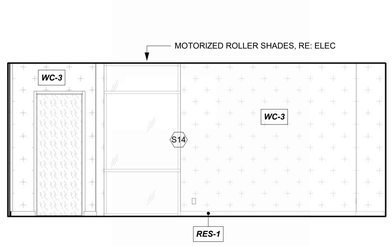
QUIET/SENSORY WAITING 129, WEST 11
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



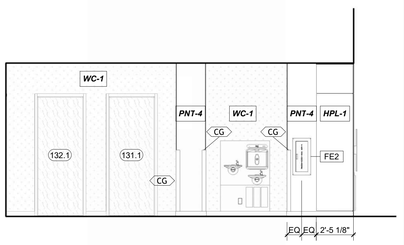
QUIET/SENSORY WAITING 129, NORTH 10
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



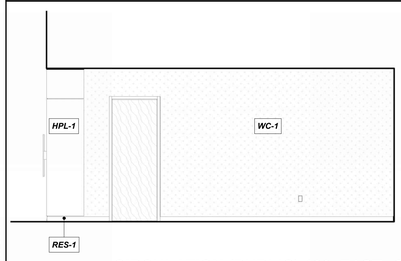
QUIET/SENSORY WAITING 129, EAST 9
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



QUIET/SENSORY WAITING 129, SOUTH 8
REFERENCED FROM 1 / A-402 1/4" = 1'-0"

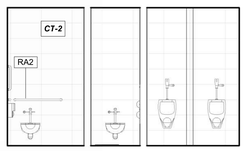


CIRCULATION (PUBLIC) 130, WEST 7
REFERENCED FROM 1 / A-402 1/4" = 1'-0"

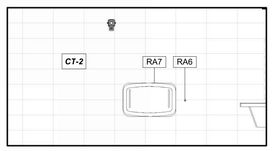


CIRCULATION (PUBLIC) 130, EAST 6
REFERENCED FROM 1 / A-402 1/4" = 1'-0"

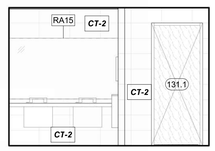
CIRCULATION (PUBLIC) 130, SOUTH 5
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



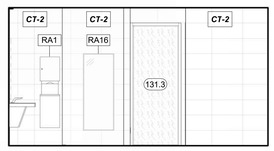
MEN'S PUBLIC RESTROOM 131, WEST 4
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



MEN'S PUBLIC RESTROOM 131, NORTH 3
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



MEN'S PUBLIC RESTROOM 131, EAST 2
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



MEN'S PUBLIC RESTROOM 131, SOUTH 1
REFERENCED FROM 1 / A-402 1/4" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Weilner - Architect - MO #A-5006 - MO Certificate of Authority #000767 -
STATE OF MISSOURI
JULIE BLACK WEILNER
NOTARY PUBLIC
A-5006
REGISTERED ARCHITECT

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
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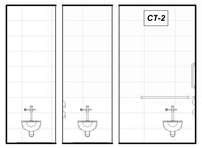
INTERIOR ELEVATIONS

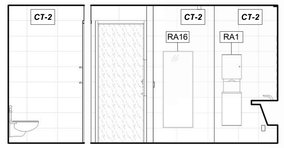
A-603

SHEET OF

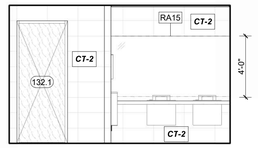
11/27/2024 9:22:12 AM



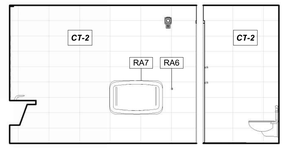
WOMEN'S PUBLIC RESTROOM 131, WEST 22
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



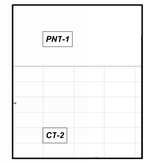
WOMEN'S PUBLIC RESTROOM 131, NORTH 21
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



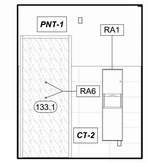
WOMEN'S PUBLIC RESTROOM 131, EAST 20
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



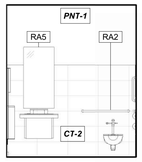
WOMEN'S PUBLIC RESTROOM 131, SOUTH 19
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



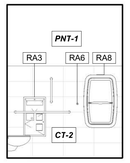
FAMILY RESTROOM 133, WEST 18
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



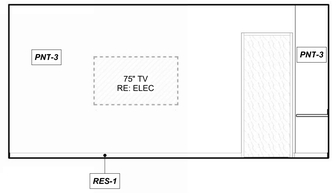
FAMILY RESTROOM 133, NORTH 17
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



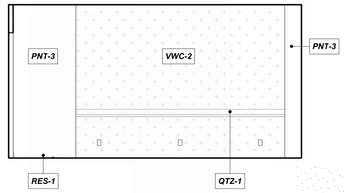
FAMILY RESTROOM 133, EAST 16
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



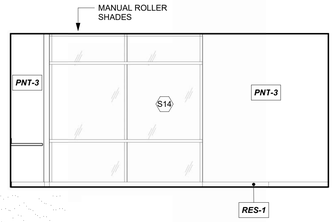
FAMILY RESTROOM 133, SOUTH 15
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



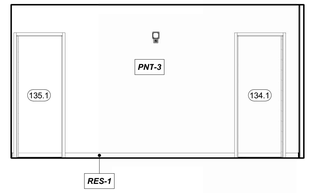
PILOT LOUNGE 136, WEST 14
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



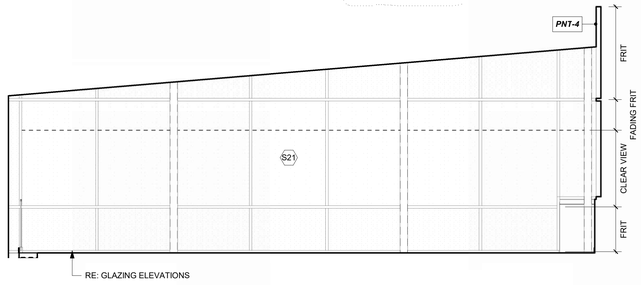
PILOT LOUNGE 136, NORTH 13
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



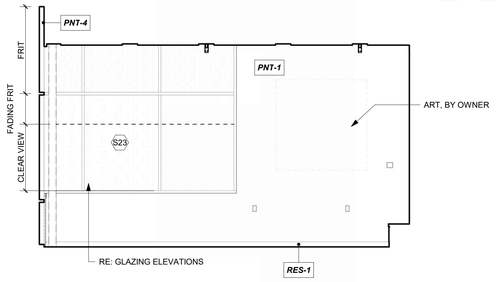
PILOT LOUNGE 136, EAST 12
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



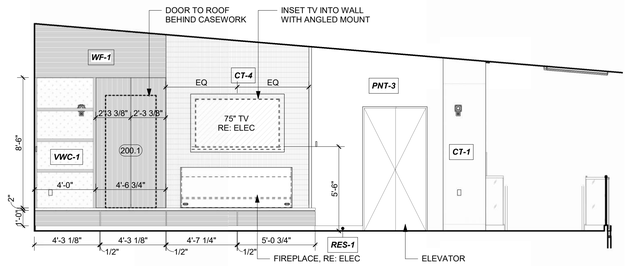
PILOT LOUNGE 136, SOUTH 11
REFERENCED FROM 1 / A-402 1/4" = 1'-0"



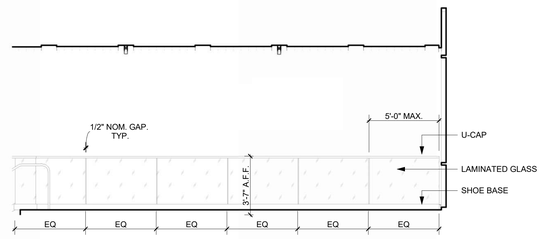
PASSENGER WAITING 200, WEST 10
REFERENCED FROM 1 / A-403 1/4" = 1'-0"



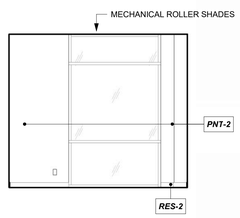
PASSENGER WAITING 200, NORTH 9
REFERENCED FROM 1 / A-403 1/4" = 1'-0"



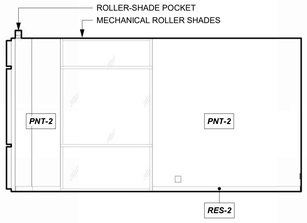
PASSENGER WAITING 200, EAST 8
REFERENCED FROM 1 / A-403 1/4" = 1'-0"



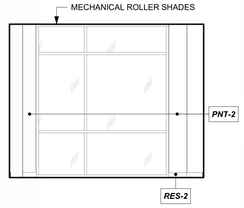
PASSENGER WAITING 200, SOUTH 7
REFERENCED FROM 1 / A-403 1/4" = 1'-0"



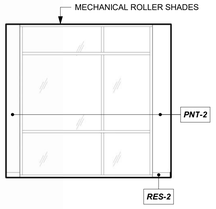
EXTRA OFFICE 114, NORTH 6
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



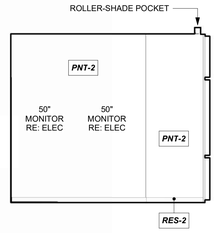
AIRPORT MANAGER 116, NORTH 5
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



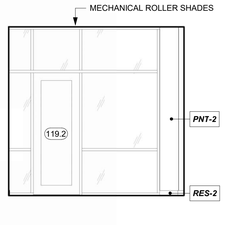
AIRPORT MANAGER 116, EAST 4
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



ASSISTANT MANAGER 117, EAST 3
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE SUPERVISOR 119, SOUTH 2
REFERENCED FROM 1 / A-401 1/4" = 1'-0"



LINE SERVICE SUPERVISOR 119, EAST 1
REFERENCED FROM 1 / A-401 1/4" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
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SHEET TITLE

INTERIOR ELEVATIONS

A-604

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11/27/2024 9:22:36 AM

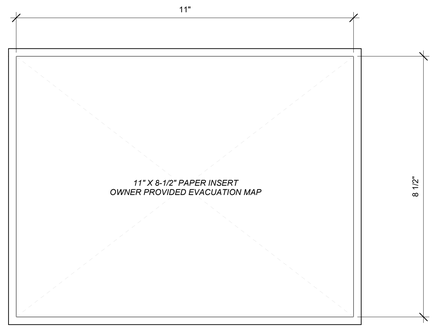
RESTROOM PICTOGRAM KEY

ALL RESTROOM ARE ADA COMPLIANT

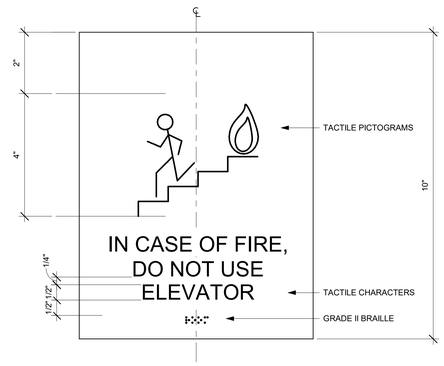
WOMENS RESTROOM - WOMEN + ACCESSIBLE PICTOGRAM
MEN'S RESTROOM - MEN + ACCESSIBLE PICTOGRAM
FAMILY RESTROOM - ACCESSIBLE PICTOGRAM
RESTROOM - ACCESSIBLE PICTOGRAM

SIGNAGE SCHEDULE

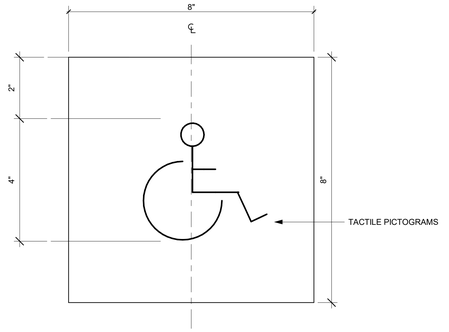
Room Name	Room #	Level	Type	Type Mark	Message	Comments
CONCOURSE	101	1ST FLOOR	ID-01	21	CONCOURSE	
BUSINESS CENTER	103	1ST FLOOR	ID-02	01	BUSINESS CENTER	
BUSINESS CENTER	103	1ST FLOOR	ID-02	30	MAXIMUM OCCUPANCY 37	
IT/ASOS	104	1ST FLOOR	ID-01	06	IT	
MEP	105	1ST FLOOR	ID-01	05	MECHANICAL	
CIRCULATION	106	1ST FLOOR	ID-01	07	CIRCULATION	
TERMINAL STORAGE	107	1ST FLOOR	ID-01	04	STORAGE	
CIRCULATION (PRIVATE)	108	1ST FLOOR	ID-01	03	CIRCULATION	
CUSTODIAL	109	1ST FLOOR	ID-01	08	CUSTODIAL	
BREAK ROOM	110	1ST FLOOR	ID-01	09	BREAK ROOM	
LINE RESTROOM	111	1ST FLOOR	ID-01	18	RESTROOM	
WORKROOM	112	1ST FLOOR	ID-01	10	WORKROOM	
RESTROOM	113	1ST FLOOR	ID-04	11	RESTROOM	
EXTRA OFFICE	114	1ST FLOOR	ID-01	12	OFFICE	
RESTROOM	115	1ST FLOOR	ID-04	13	RESTROOM	
AIRPORT MANAGER	116	1ST FLOOR	ID-01	14	AIRPORT MANAGER	
ASSISTANT MANAGER	117	1ST FLOOR	ID-01	15	ASSISTANT MANAGER	
LINE SERVICE LOCKERS/WET GEAR	118	1ST FLOOR	ID-01	17	LINE SERVICE LOCKERS & WET GEAR	
LINE SERVICE SUPERVISOR	119	1ST FLOOR	ID-01	16	LINE SERVICE SUPERVISOR	
LINE SERVICE WORKROOM	121	1ST FLOOR	ID-01	22	LINE SERVICE WORKROOM	
LINE SERVICE WORKROOM	121	1ST FLOOR	ID-01	20	LINE SERVICE WORKROOM	
RECEPTION/LINE COUNTER	123	1ST FLOOR	ID-01	19	RECEPTION/LINE COUNTER	
BREAK ROOM	124	1ST FLOOR	ID-01	02	BREAK ROOM	
PASSENGER WAITING	128	1ST FLOOR	ID-02	35	MAXIMUM OCCUPANCY 112	TO BE PLACED ON THE HEADER ABOVE DOOR
PASSENGER WAITING	128		ID-02	36	MAXIMUM OCCUPANCY 112	TO BE PLACED ON GYP BD ABOVE
QUIET/SENSORY WAITING	129	1ST FLOOR	ID-01	23	QUIET/SENSORY WAITING	
QUIET/SENSORY WAITING	129	1ST FLOOR	ID-02	32	MAXIMUM OCCUPANCY 27	
MEN'S	131	1ST FLOOR	ID-01	24	MEN'S RESTROOM	
WOMEN'S	132	1ST FLOOR	ID-01	25	WOMEN'S RESTROOM	
FAMILY RR	133	1ST FLOOR	ID-04	26	FAMILY RESTROOM	
QUIET ROOM	134	1ST FLOOR	ID-01	28	QUIET ROOM	
QUIET ROOM	135	1ST FLOOR	ID-01	29	QUIET ROOM	
PILOT LOUNGE	136	1ST FLOOR	ID-01	27	PILOT LOUNGE	
PILOT LOUNGE	136	1ST FLOOR	ID-02	31	MAXIMUM OCCUPANCY 26	
PASSENGER WAITING	200	MEZZANINE	ID-02	33	MAXIMUM OCCUPANCY 49	
PASSENGER WAITING	200	MEZZANINE	ID-05	34	IN CASE OF FIRE, DO NOT USE ELEVATORS	



ID06 EVAC HOLDER 8
6" = 1'-0"

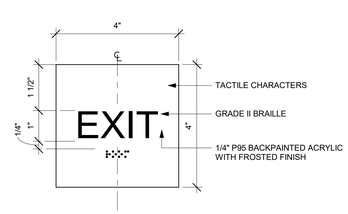


ID05 IN CASE OF FIRE 7
6" = 1'-0"

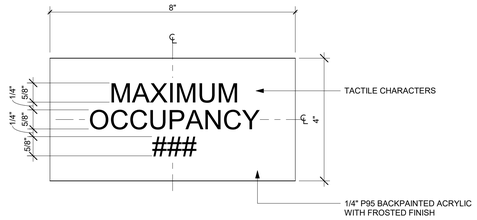


USE IN CONJUNCTION WITH ID01 RE:
2/A-621

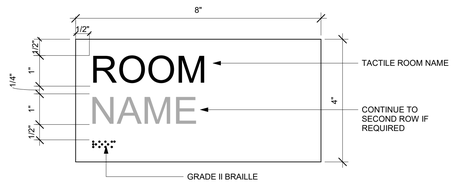
ID04 RESTROOM 6
6" = 1'-0"



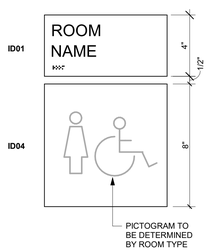
ID03 EXIT 5
6" = 1'-0"



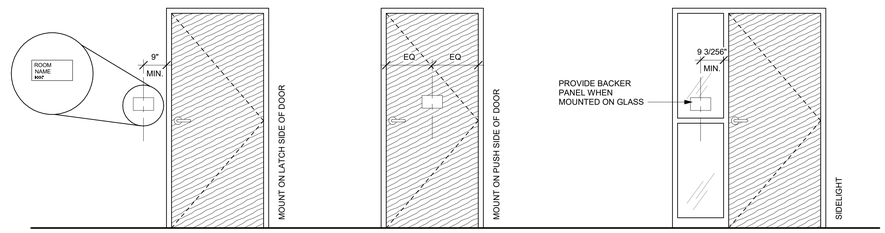
ID02 MAXIMUM OCCUPANCY 4
6" = 1'-0"



ID01 ROOM NAME 3
6" = 1'-0"



ID04 + ID01 STANDARD LAYOUT 2
3" = 1'-0"



DOOR SIGNAGE ELEVATION 1
1/2" = 1'-0"

SIGNAGE TYPES

ID01, ID02, ID03, ID04, ID05, ID06 - FLAT PROFILE 1/4" THICK BACKPAINTED ACRYLIC SIGNS

- SIGNS MOUNTED ON GLASS TO RECEIVE BACKER SHEET MATCHING SIGN MATERIAL AND FINISH, IN SIZE MATCHING SIGN, MOUNTED ONTO OPPOSITE SIDE OF GLASS TO CONCEAL BACK OF SIGN
- TACTILE CHARACTERS AND PICTOGRAMS TIPPED BLACK

ID07 - EVAC HOLDERS

- TEXT FOR INSERTS (PERSONNEL NAMES, ET.AL.) TO BE PROVIDED BY THE OWNER; PRINTED INSERTS TO BE PROVIDED AND INSTALLED BY CONTRACTOR

GENERAL SIGNAGE REQUIREMENTS

- SIGNAGE TO MEET IBC AND A117.1 SIGNAGE REQUIREMENTS
- GRADE II BRAILLE NOT TIPPED
- PICTOGRAMS TO BE REVIEWED BY ARCHITECT
- FONT: HELVETICA NEUE, REGULAR
- ALL SIGNAGE SHALL BE CODE COMPLIANT
- BRAILLE TO BE VERIFIED BY CERTIFIED EXPERT
- A SIGN STATING "EXIT" COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR LEADING TO THE EXTERIOR, AN AREA OF REFUGE, AN EXIT STAIRWAY, OR OTHER EXIT DISCHARGE
- TEMPORARY SIGNAGE TO BE PLACED AND REVIEWED WITH OWNER PRIOR TO INSTALLATION OF PERMANENT SIGNAGE
- PROVIDE 10 ADDITIONAL SIGNS 11" X 9" MAX, IN BASE BID, TO BE USED AS REQUIRED TO ADDRESS OWNER REVISIONS ARTWORK TO BE REVIEWED BY ARCHITECT
- ALL DIMENSIONS AND MOUNTING CONDITIONS MUST BE VERIFIED IN THE FIELD PRIOR TO FINAL ARTWORK RELEASE
- ALL ATTACHMENTS TO BE CONCEALED UNO. PROVIDE BLOCKING AS REQUIRED FOR SECURE ANCHORAGE. SEE ARCHITECTURAL WALL FOR CONSTRUCTION
- SIGNAGE COLOR TO BE VERIFIED WITH OWNER AND CONFIRMED BY ARCHITECT

PROJECT PICTOGRAMS

ACCESSIBLE

IN CASE OF EMERGENCY

WOMEN

MEN

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver
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SHEET TITLE

ADA & CODE SIGNAGE

A-621

SHEET OF

11/27/2024 9:22:39 AM

MEZZANINE SIGNAGE PLAN 2
3/16" = 1'-0"

1ST FLOOR SIGNAGE PLAN 1
3/16" = 1'-0"

11/27/2024 9:22:45 AM

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KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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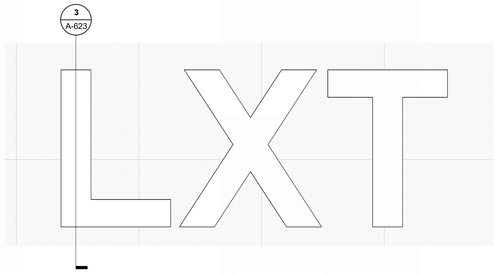
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

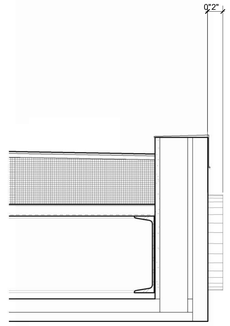
SIGNAGE PLANS

A-622

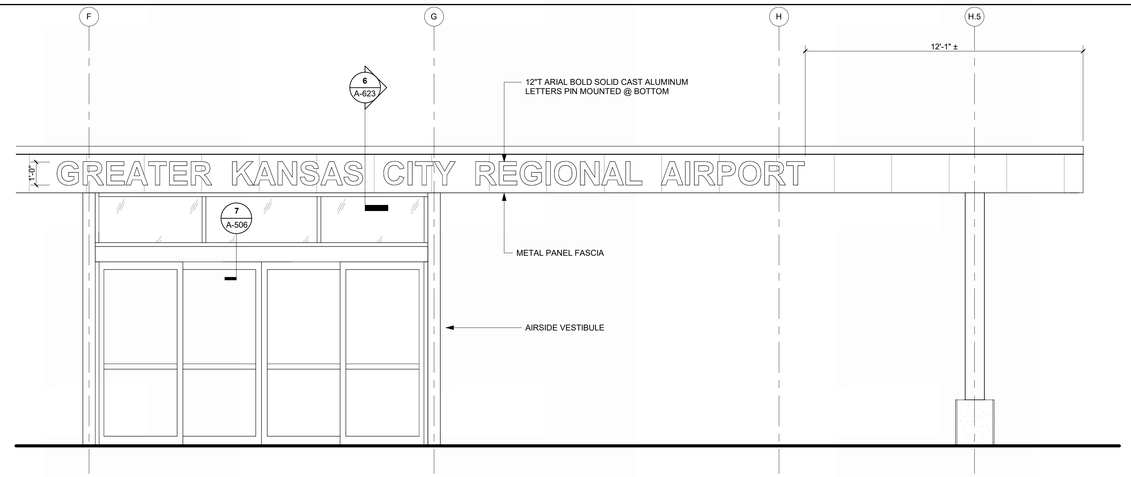
SHEET OF



FRONT ELEVATION - INTERIOR LXT SIGNAGE 7
REFERENCED FROM 1 / A-403 1/2" = 1'-0"

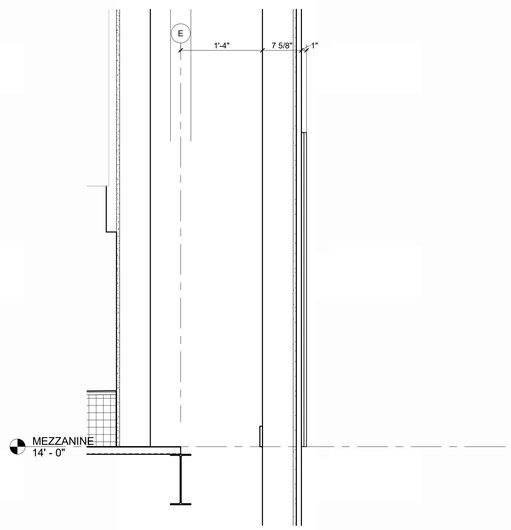


SECTION THRU AIRSIDE SIGNAGE 6
REFERENCED FROM 5 / A-623 1 1/2" = 1'-0"

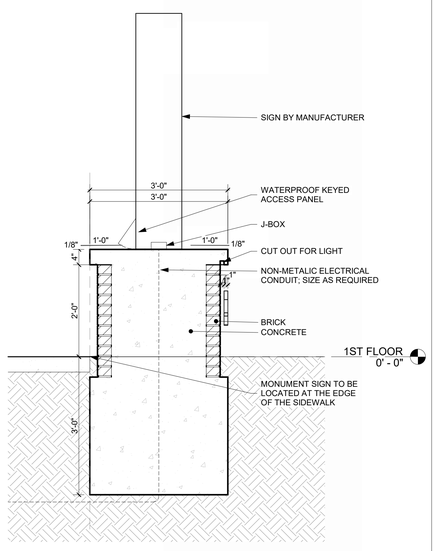


ENLARGED ELEVATION, AIRSIDE SIGNAGE 5
REFERENCED FROM 1 / A-102 3/8" = 1'-0"

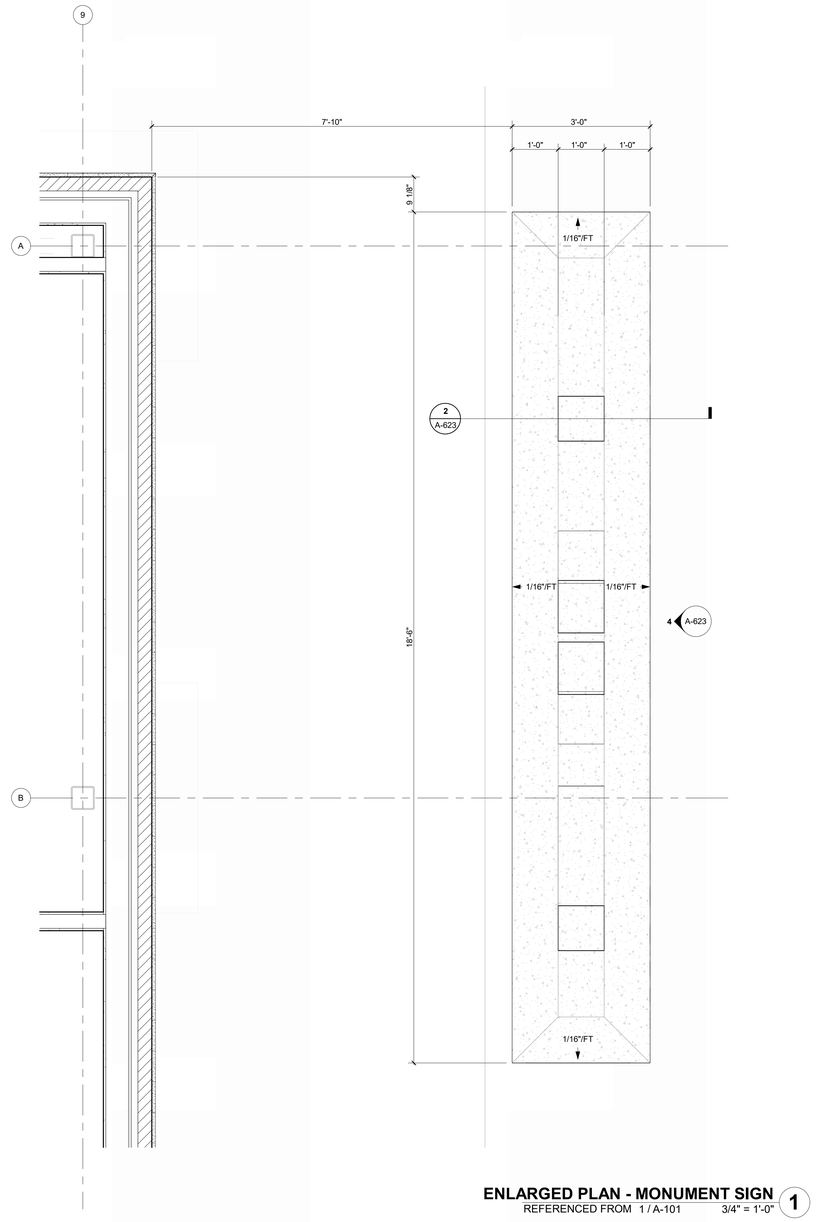
FRONT ELEVATION - MONUMENT SIGN 4
REFERENCED FROM 1 / A-623 1/2" = 1'-0"



SECTION - INTERIOR LXT SIGNAGE 3
REFERENCED FROM 7 / A-623 1" = 1'-0"



TRANSVERSE SECTION @ MONUMENT SIGN 2
REFERENCED FROM 1 / A-623 3/4" = 1'-0"



ENLARGED PLAN - MONUMENT SIGN 1
REFERENCED FROM 1 / A-101 3/4" = 1'-0"

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LEE'S SUMMIT MUNICIPAL AIRPORT
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11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	HJM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE
EXTERIOR SIGNAGE

A-623
SHEET OF

11/27/2024 9:22:56 AM

I would not put sets on drawings and in spec. delete here

HARDWARE SET: 01
DOOR NUMBER: 119.2 121.2
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW NRP	630	IVE
1 EA	POWER TRANSFER	EPT10 CON	689	VON
1 EA	ELEC PANIC HARDWARE	RX-LC-QEL-99-NL-CON 24 VDC	626	VON
1 EA	RIM HOUSING	20-079	626	SCH
1 EA	FSIC PERM. CORE	23-030 EV29 T	626	SCH
1 EA	FSIC CONSTR. CORE	23-030 ICX	ORG	SCH
1 EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	DOOR SWEEP	8198AA	AA	ZER
1 EA	THRESHOLD	103A-223	A	ZER
2 EA	WIRE HARNESS	CON X LENGTH REQ'D		SCH
1 EA	DOOR CONTACT	7764	628	SCE
1 EA	POWER SUPPLY	BY SECURITY SYSTEM INTEGRATOR		B/O
1 EA	DOOR CALL STATION	BY SECURITY SYSTEM INTEGRATOR		
1 EA	CARD READER	BY SECURITY SYSTEM INTEGRATOR		
1 EA	WEATHERSTRIP	BY DOOR/FRAME MANUFACTURER		B/O
1 EA	WIRING DIAGRAM	BY SECURITY SYSTEM INTEGRATOR		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. PANIC MAY BE DOGGED (MADE PUSH/PULL) ELECTRONICALLY. OUTSIDE ADA ACTUATOR ONLY OPERABLE WHEN DOOR IS DOGGED OR AFTER VALID CARD READ, INSIDE ACTUATOR ALWAYS OPERABLE. ALWAYS FREE EGRESS.

HARDWARE SET: 02
DOOR NUMBER: 106.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2 EA	CONT. HINGE	112XY EPT	628	IVE
1 EA	POWER TRANSFER	EPT10 CON	689	VON
1 EA	REMOVABLE MULLION	KR4954	689	VON
1 EA	ELEC PANIC HARDWARE	RX-LC-QEL-99-EO-CON 24 VDC	626	VON
1 EA	ELEC PANIC HARDWARE	RX-LC-QEL-99-NL-CON 24 VDC	626	VON
1 EA	RIM HOUSING	20-079	626	SCH
1 EA	FSIC PERM. CORE	23-030 EV29 T	626	SCH
1 EA	FSIC CONSTR. CORE	23-030 ICX	ORG	SCH
2 EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
2 EA	CUSH SHOE SUPPORT	4040XP-30 SRT	689	LCN
2 EA	BLADE STOP SPACER	4040XP-61 SRT	689	LCN
1 EA	MULLION SEAL	8780NBK PSA	BK	ZER
2 EA	DOOR SWEEP	8198AA	AA	ZER
1 EA	THRESHOLD	103A-223	A	ZER
4 EA	WIRE HARNESS	CON X LENGTH REQ'D		SCH
2 EA	DOOR CONTACT	7764	628	SCE
1 EA	POWER SUPPLY	BY SECURITY SYSTEM INTEGRATOR		B/O
1 EA	DOOR CALL STATION	BY SECURITY SYSTEM INTEGRATOR		
1 EA	CARD READER	BY SECURITY SYSTEM INTEGRATOR		
1 EA	WEATHERSTRIP	BY DOOR/FRAME MANUFACTURER		B/O
1 EA	WIRING DIAGRAM	BY SECURITY SYSTEM INTEGRATOR		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. PANIC MAY BE DOGGED (MADE PUSH/PULL) ELECTRONICALLY. OUTSIDE ADA ACTUATOR ONLY OPERABLE WHEN DOOR IS DOGGED OR AFTER VALID CARD READ, INSIDE ACTUATOR ALWAYS OPERABLE. ALWAYS FREE EGRESS.

HARDWARE SET: 03
DOOR NUMBER: 129.2
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW NRP	630	IVE
1 EA	PANIC HARDWARE	99-EO	626	VON
1 EA	ACCESSORY	LESS DOGGING PLATE	626	VON
1 EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	RAIN DRIP	142AA	AA	ZER
1 SET	GASKETING	429AA-S	AA	ZER
1 EA	DOOR SWEEP	8197AA	AA	ZER
1 EA	THRESHOLD	103A-223	A	ZER
1 EA	DOOR CONTACT	679-05 HM/WD AS REQ'D	BLK	SCE
1 EA	MOTION SENSOR	SCANII 12/24 VDC	WHT	SCE
1 EA	WIRING DIAGRAM	BY SECURITY SYSTEM INTEGRATOR		

OPERATION: DOOR CONTACT MONITORS DOOR POSITION.

NOTE: INSTALL WEATHERSTRIP AT FRAME HEAD FIRST, THEN INSTALL CLOSER PA BRACKET ON WEATHERSTRIP.

HARDWARE SET: 04
DOOR NUMBER: 200.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	POWER TRANSFER	EPT10 CON	689	VON
1 EA	EU STOREROOM LOCK	ND80P6DEU RHO RX CON 12V/24V DC	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
1 EA	DOOR SWEEP	39A	A	ZER
1 EA	THRESHOLD	655A-223	A	ZER
1 EA	DOOR CONTACT	679-05 HM/WD AS REQ'D	BLK	SCE
1 EA	POWER SUPPLY	BY SECURITY SYSTEM INTEGRATOR		B/O
1 EA	CARD READER	BY SECURITY SYSTEM INTEGRATOR		

HARDWARE SET: 05
DOOR NUMBER: 104.1 105.1 108.1 121.1 123.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1 EA	POWER TRANSFER	EPT10 CON	689	VON
1 EA	EU STOREROOM LOCK	ND80P6DEU RHO RX CON 12V/24V DC	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	FLOOR STOP	FS410 (AT 123.1 ONLY)	626	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER
1 EA	DOOR CONTACT	679-05 HM/WD AS REQ'D	BLK	SCE
1 EA	POWER SUPPLY	BY SECURITY SYSTEM INTEGRATOR		B/O
1 EA	CARD READER	BY SECURITY SYSTEM INTEGRATOR		

HARDWARE SET: 06
DOOR NUMBER: 107.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
6 EA	HINGE	5BB1HW	652	IVE
1 EA	POWER TRANSFER	EPT10 CON	689	VON
1 EA	CONST LATCHING BOLT	FB51T	630	IVE
1 EA	EU STOREROOM LOCK	ND80P6DEU RHO RX CON 12V/24V DC	626	SCH
2 EA	OH STOP	90S	630	GLY
2 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1 EA	GASKETING	488SBK PSA (AT RATED DOORS)	BK	ZER
1 EA	MEETING STILE	383AA	AA	ZER
2 EA	DOOR CONTACT	679-05 HM/WD AS REQ'D	BLK	SCE
1 EA	POWER SUPPLY	BY SECURITY SYSTEM INTEGRATOR		B/O
1 EA	CARD READER	BY SECURITY SYSTEM INTEGRATOR		

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. ALWAYS FREE EGRESS.

HARDWARE SET: 07
DOOR NUMBER: 109.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	STOREROOM LOCK	ND80P6D RHO	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA (AT RATED DOORS)	BK	ZER
3 EA	SILENCER	SR64	GRY	IVE

OPERATION: DOOR NORMALLY CLOSED AND LOCKED. ACCESS VIA VALID CARD READ. ALWAYS FREE EGRESS.

HARDWARE SET: 08
DOOR NUMBER: 108.2 124.1 129.1 136.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	CLASSROOM LOCK	ND70P6D RHO	626	SCH
1 EA	SURFACE CLOSER	4040XP	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

HARDWARE SET: 09
DOOR NUMBER: 103.1 114.1 116.1 117.1 119.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	ENTRANCE LOCK	ND53P6D RHO	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GRY	IVE

NOTE: PROVIDE FLOOR STOP IN LIEU OF WALL STOP WHERE REQUIRED.

HARDWARE SET: 10
DOOR NUMBER: 111.1 113.1 115.1 133.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	OFFICE W/SIM RETRACT W/ OUTSIDE INDICATOR	L9056J 06A L583-363 OS-OCC	626	SCH
1 EA	FSIC PERM. CORE	23-030 EV29 T	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

HARDWARE SET: 11
DOOR NUMBER: 131.1 132.1 135.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA	CONT. HINGE	224XY	628	IVE
1 EA	CLASSROOM SEC W/DB	L9457J 06A	626	SCH
2 EA	FSIC PERM. CORE	23-030 EV29 T	626	SCH
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GRY	IVE

HARDWARE SET: 12
DOOR NUMBER: 134.1
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	PASSAGE SET	ND10S RHO	626	SCH
1 EA	WALL STOP	WS406/407CCV	630	IVE
3 EA	SILENCER	SR64	GRY	IVE

HARDWARE SET: 13
DOOR NUMBER: 100.1 100.2 127.1 127.2
EACH TO HAVE:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1 EA	MORTISE HOUSING	26-064	626	SCH
1 EA	FSIC PERM. CORE	23-030 EV29 T	626	SCH
1 EA	LOCAL CONTROL SWITCH	BY DOOR MANUFACTURER		

NOTE: BALANCE OF HARDWARE BY DOOR SYSTEM MANUFACTURER. VERIFY CYLINDER TYPE/QUANTITY REQUIRED WITH DOOR MANUFACTURER.

HARDWARE SET: 14
DOOR NUMBER: 118.1
EACH TO HAVE:

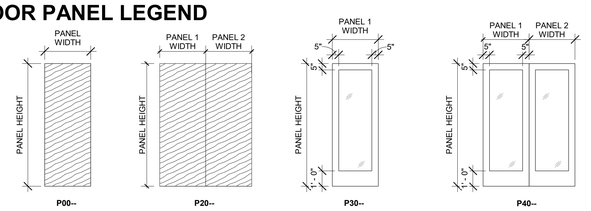
QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4 EA	HINGE	5BB1HW	652	IVE
1 EA	CLASSROOM DEADBOLT	B663P6	626	SCH
1 EA	PUSH PLATE	8200 6" X 16"	630	IVE
1 EA	PULL PLATE	8303 8" 6" X 16"	630	IVE
1 EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1 EA	WALL STOP	WS406/407CCV	630	IVE
1 EA	GASKETING	488SBK PSA	BK	ZER

DOOR SCHEDULE

MARK	WIDTH LEAF 1	WIDTH LEAF 2	PANEL HEIGHT	PANEL TYPE	PANEL NOTE	FRAME TYPE	FRAME HEAD HEIGHT	FIRE RATING	HARDWARE SET	DETAIL HEAD	DETAIL JAMB	COMMENTS	Throat By Wall Size	Throat Depth Actual	Throat Depth Manual
4	3' - 0"		8' - 0"												
100.1	3' - 4"		8' - 0"	-			0' - 8"			7/A-506	8/A-506				
100.2	3' - 4"		8' - 0"	-			0' - 8"			7/A-506	8/A-506				
103.1	3' - 0"		8' - 0"	P00WD		FCW00AL	0' - 0"		09	13/A-506	14/A-506				
104.1	3' - 0"		8' - 0"	P00HM		F00HM	0' - 2"		05	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
105.1	4' - 0"		8' - 0"	P00HM		F00HM	0' - 2"			9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
106.1	3' - 0"	3' - 0"	8' - 0"	P30AL		FCW00AL	0' - 0"		02	5/A-506 SIM.	16/A-506				
107.1	3' - 0"	3' - 0"	8' - 0"	P00HM		F00HM	0' - 2"		06	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
108.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		05	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
108.2	3' - 0"		8' - 0"	P00WD		F25HM	0' - 2"		08	9/A-506	10/A-506	PASSAGE DOOR, NO LOCK	Yes	0' - 4 7/8"	0' - 5 3/4"
109.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		07	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
111.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		10	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
113.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		10	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
114.1	3' - 0"		8' - 0"	P00WD		F25HM	0' - 2"		09	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
115.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		10	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
116.1	3' - 0"		8' - 0"	P00WD		F25HM	0' - 2"		09	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
117.1	3' - 0"		8' - 0"	P00WD		F25HM	0' - 2"		09	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
118.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		14	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
119.1	3' - 0"		8' - 0"	P00WD		F25HM	0' - 2"		09	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
119.2	3' - 0"		8' - 0"	P30AL		FCW00AL	0' - 0"		01	5/A-506	6/A506				
121.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		05	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
121.2	3' - 0"		8' - 0"	P30AL		FCW00AL	0' - 0"		01	5/A-506	6/A506				
123.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		05	9/A-506	10/A-506	CARD READER	Yes	0' - 7 1/4"	0' - 5 3/4"
124.1	4' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		08	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
127.1	3' - 8"		8' - 0"	-			0' - 8"			7/A-506	8/A-506				
127.2	3' - 8"		8' - 0"	-			0' - 8"			7/A-506	8/A-506				
129.1	3' - 0"		8' - 0"	P00WD		F38HM	0' - 2"		08	9/A-506	10/A-506		Yes	0' - 7 1/4"	0' - 5 3/4"
129.2	3' - 0"		8' - 0"	P30AL		FCW00AL	0' - 0"		03	5/A-506	3/A-502				
129A.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		10	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
131.1	3' - 0"		7' - 10"	P00WD		F00HM	0' - 2"		11	11/A-506	12/A-506		No	0' - 5 3/4"	0' - 5 3/4"
131.2	2' - 10"		7' - 10"	P00WD		F00HM	0' - 2"			9/A-506	10/A-506	UNDER CUT 4"	No	0' - 5 3/4"	0' - 5 3/4"
131.3	3' - 0"		7' - 10"	P00WD		F00HM	0' - 2"			9/A-506	10/A-506	UNDER CUT 4"	No	0' - 5 3/4"	0' - 5 3/4"
132.1	3' - 0"		7' - 10"	P00WD		F00HM	0' - 2"		11	11/A-506	12/A-506		No	0' - 5 3/4"	0' - 5 3/4"
132.2	3' - 0"		7' - 10"	P00WD		F00HM	0' - 2"			9/A-506	10/A-506	UNDER CUT 4"	No	0' - 5 3/4"	0' - 5 3/4"
132.3	2' - 10"		7' - 10"	P00WD		F00HM	0' - 2"			9/A-506	10/A-506	UNDER CUT 4"	No	0' - 5 3/4"	0' - 5 3/4"
132.4	2' - 10"		7' - 10"	P00WD		F00HM	0' - 2"			9/A-506	10/A-506	UNDER CUT 4"	No	0' - 5 3/4"	0' - 5 3/4"
133.1	3' - 0"		7' - 10"	P00WD		F00HM	0' - 2"		10	9/A-506	10/A-506		Yes	0' - 4 7/8"	0' - 5 3/4"
134.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		12	9/A-506	10/A-506		Yes	0' - 6"	0' - 5 3/4"
135.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		8	9/A-506	10/A-506		Yes	0' - 6"	0' - 5 3/4"
136.1	3' - 0"		8' - 0"	P00WD		F00HM	0' - 2"		08	9/A-506	10/A-506		Yes	0' - 4 1/4"	0' - 5 3/4"
200.1	3' - 0"		7' - 0"	P00WD		F00HM	0' - 2"		04	15/A-506	16/A-506		No	0' - 6 3/4"	0' - 6 3/4"

GENERAL NOTES:
1. ALL HM FRAMES ARE TO BE PAINTED, PNT-4

DOOR PANEL LEGEND



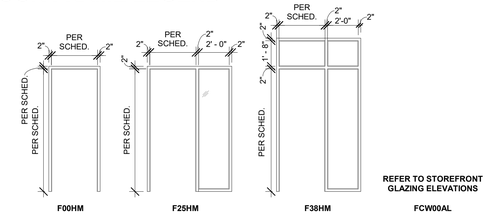
P00--
FLUSH DOOR
WD = WOOD
HM = HOLLOW METAL

P20--
DOUBLE FLUSH DOOR
WD = WOOD
HM = HOLLOW METAL

P30--
DOOR WITH FULL LITE
AL = ALUMINUM
WD = WOOD

P40--
DOUBLE DOOR WITH FULL LITE
AL = ALUMINUM
WD = WOOD

DOOR FRAME LEGEND



F00HM
HOLLOW METAL

F25HM
HOLLOW METAL W/ SIDELITE

F38HM
HOLLOW METAL W/ TRANSOM & SIDELITE

REFER TO STOREFRONT GLAZING ELEVATIONS
FCW00AL
ALUMINUM STOREFRONT

CMT
1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

WELLNER ARCHITECTS + engineers
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108

OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

- Julie Black Wellner - Architect - MO #A-5006 -
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
- MO Certificate of Authority #000787 -

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE
DOOR SCHEDULE & LEGENDS

A-700
SHEET OF

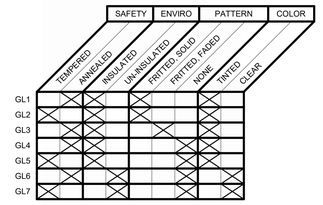
11/27/2024 9:22:58 AM

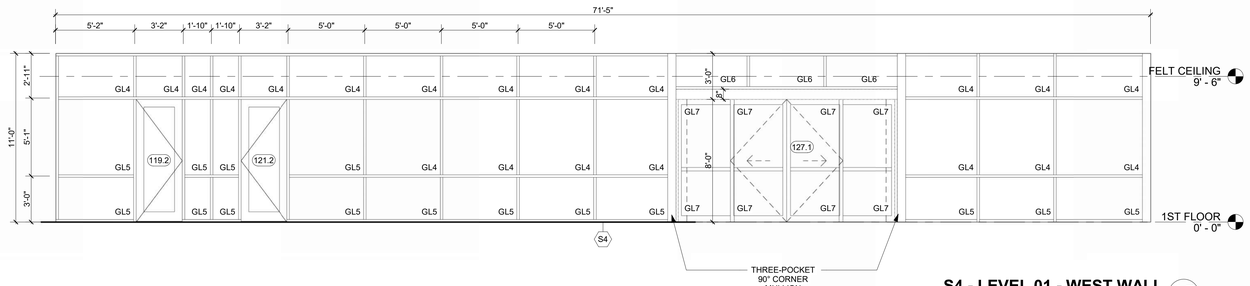
STOREFRONT GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR IGU AND GLASS REQUIREMENTS.
2. PROVIDE TEMPERED GLAZING IN LOCATIONS REQUIRED BY LOCAL BUILDING CODE.
3. OVERALL STOREFRONT DIMENSIONS SHOWN ARE ROUGH OPENING DIMENSIONS AND SHALL BE FIELD VERIFIED WITH ACTUAL CONSTRUCTION.
4. FRITTED FADED PATTERN SHOULD MIMIC FRITTED SOLID PATTERN FROM TOP AND FADE TO A CLEAR VIEW WITHIN 2' OF TOP OF PANEL.

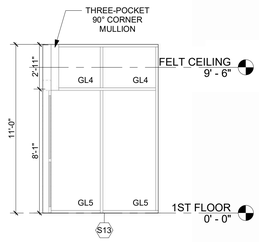
GLAZING TYPES:

GL1 ANNEALED, INSULATED, SOLID FRIT
GL2 TEMPERED, INSULATED, SOLID FRIT
GL3 ANNEALED, INSULATED, FADED FRIT
GL4 ANNEALED, INSULATED, CLEAR
GL5 TEMPERED, INSULATED, CLEAR
GL6 ANNEALED, UN-INSULATED, CLEAR
GL7 TEMPERED, UN-INSULATED, CLEAR

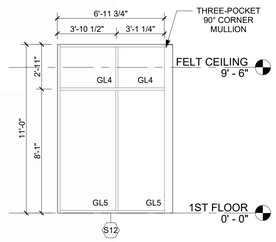




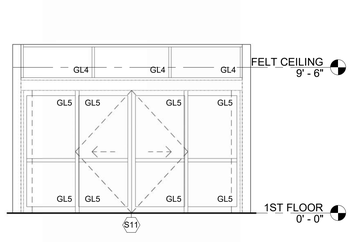
S4 - LEVEL 01 - WEST WALL 15
1/4" = 1'-0"



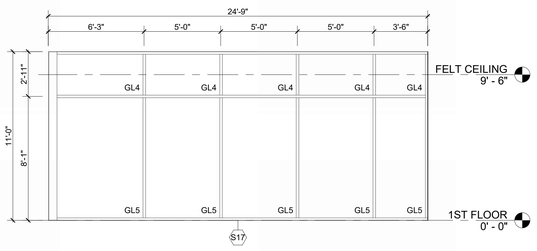
S13 - VESTIBULE 127 - NORTH 14
1/4" = 1'-0"



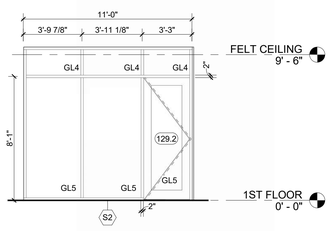
S12 - VESTIBULE 127 - SOUTH 13
1/4" = 1'-0"



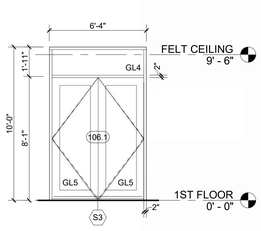
S11 - VESTIBULE 127 - WEST 12
1/4" = 1'-0"



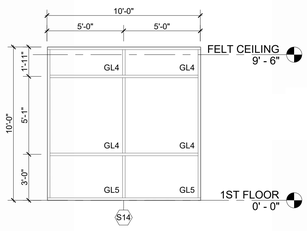
S17 - PASSENGER WAITING 128 - SOUTH 11
1/4" = 1'-0"



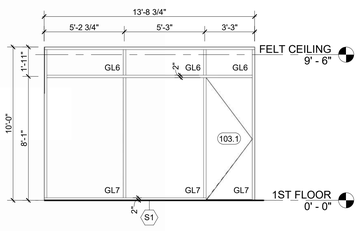
S2 - QUIET/SENSORY WAITING 129 - WEST 10
1/4" = 1'-0"



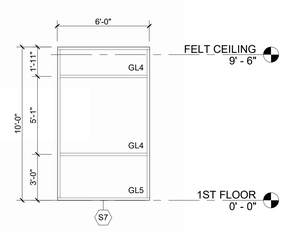
S3 - CIRCULATION 106 - NORTH 9
1/4" = 1'-0"



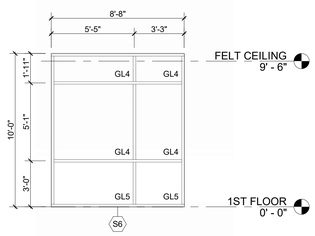
S14 - ROOMS 103, 129, 136 8
1/4" = 1'-0"



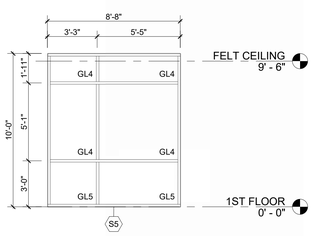
S1 - BUSINESS CENTER 103 - WEST 7
1/4" = 1'-0"



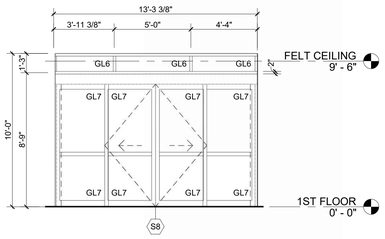
S7 - ROOMS 110, 112, 114, 116 - NORTH 6
1/4" = 1'-0"



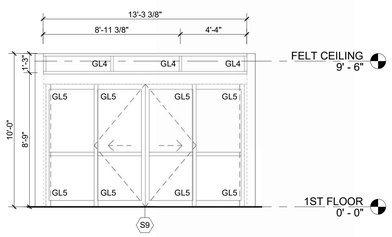
S6 - AIRPORT MNGR 116 - WEST 5
1/4" = 1'-0"



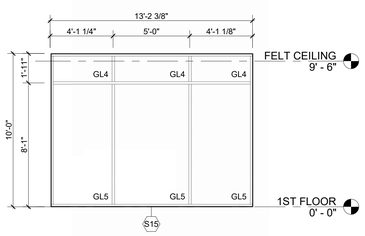
S5 - ASST. MNGR 117 - WEST 4
1/4" = 1'-0"



S8 - VESTIBULE 100 - WEST 3
1/4" = 1'-0"



S9 - VESTIBULE 100 - EAST 2
1/4" = 1'-0"



S15 - CAFE/VENDING 102 - EAST 1
1/4" = 1'-0"

11/27/2024 9:23:11 AM

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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767
11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

SHEET TITLE

STOREFRONT ELEVATIONS, 1ST FLOOR

A-701

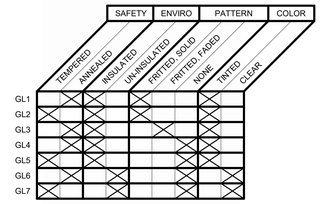
SHEET OF

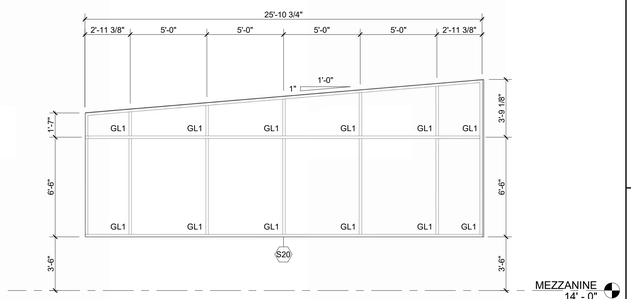
STOREFRONT GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR IGU AND GLASS REQUIREMENTS.
2. PROVIDE TEMPERED GLAZING IN LOCATIONS REQUIRED BY LOCAL BUILDING CODE.
3. OVERALL STOREFRONT DIMENSIONS SHOWN ARE ROUGH OPENING DIMENSIONS AND SHALL BE FIELD VERIFIED WITH ACTUAL CONSTRUCTION.
4. FRITTED FADED PATTERN SHOULD MIMIC FRITTED SOLID PATTERN FROM TOP AND FADE TO A CLEAR VIEW WITHIN 2' OF TOP OF PANEL.

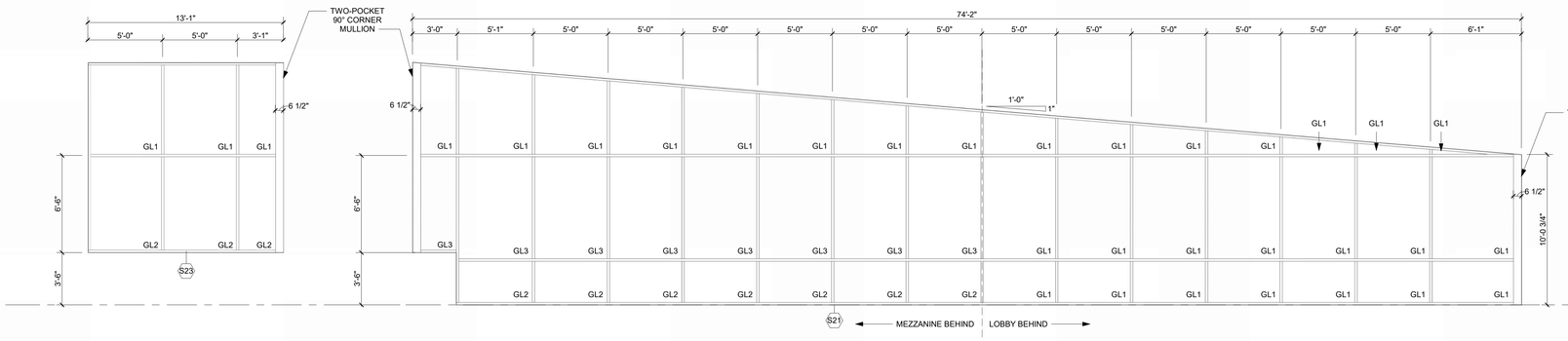
GLAZING TYPES:

GL1 ANNEALED, INSULATED, SOLID FRIT
GL2 TEMPERED, INSULATED, SOLID FRIT
GL3 ANNEALED, INSULATED, FADED FRIT
GL4 ANNEALED, INSULATED, CLEAR
GL5 TEMPERED, INSULATED, CLEAR
GL6 ANNEALED, UN-INSULATED, CLEAR
GL7 TEMPERED, UN-INSULATED, CLEAR





S20 - MEZZANINE - EAST 4
1/4" = 1'-0"



S23 - MEZZANINE - NORTH 3
1/4" = 1'-0"

S21 - MEZZANINE - WEST 2
1/4" = 1'-0"

S22 - MEZZANINE - SOUTH 1
1/4" = 1'-0"

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SHEET TITLE

STOREFRONT ELEVATIONS, MEZZANINE

A-702

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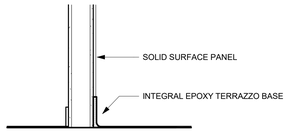
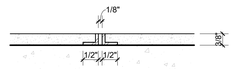


SECTION THRU COVE BASE + SOLID SURFACE PANEL 8
REFERENCED FROM 1 / A-401 1" = 1'-0"

SEALED CONCRETE TO EPOXY TERRAZZO 7
6" = 1'-0"

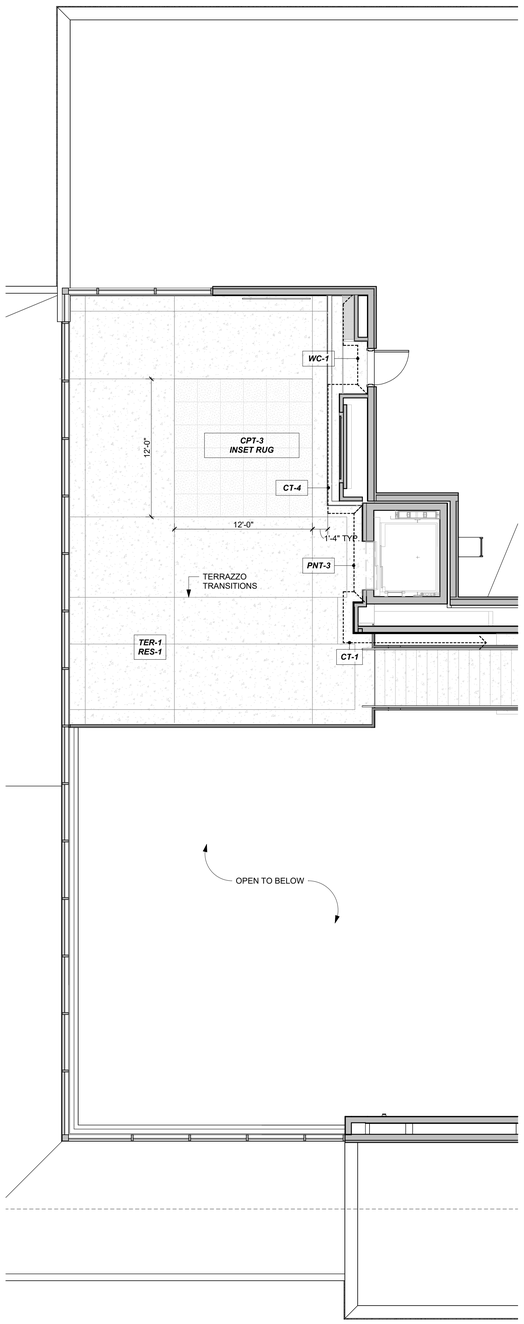


FINAL EXPANSION JOINT DETAIL TO BE CONFIRMED BY SELECTED TERRAZZO PROVIDER

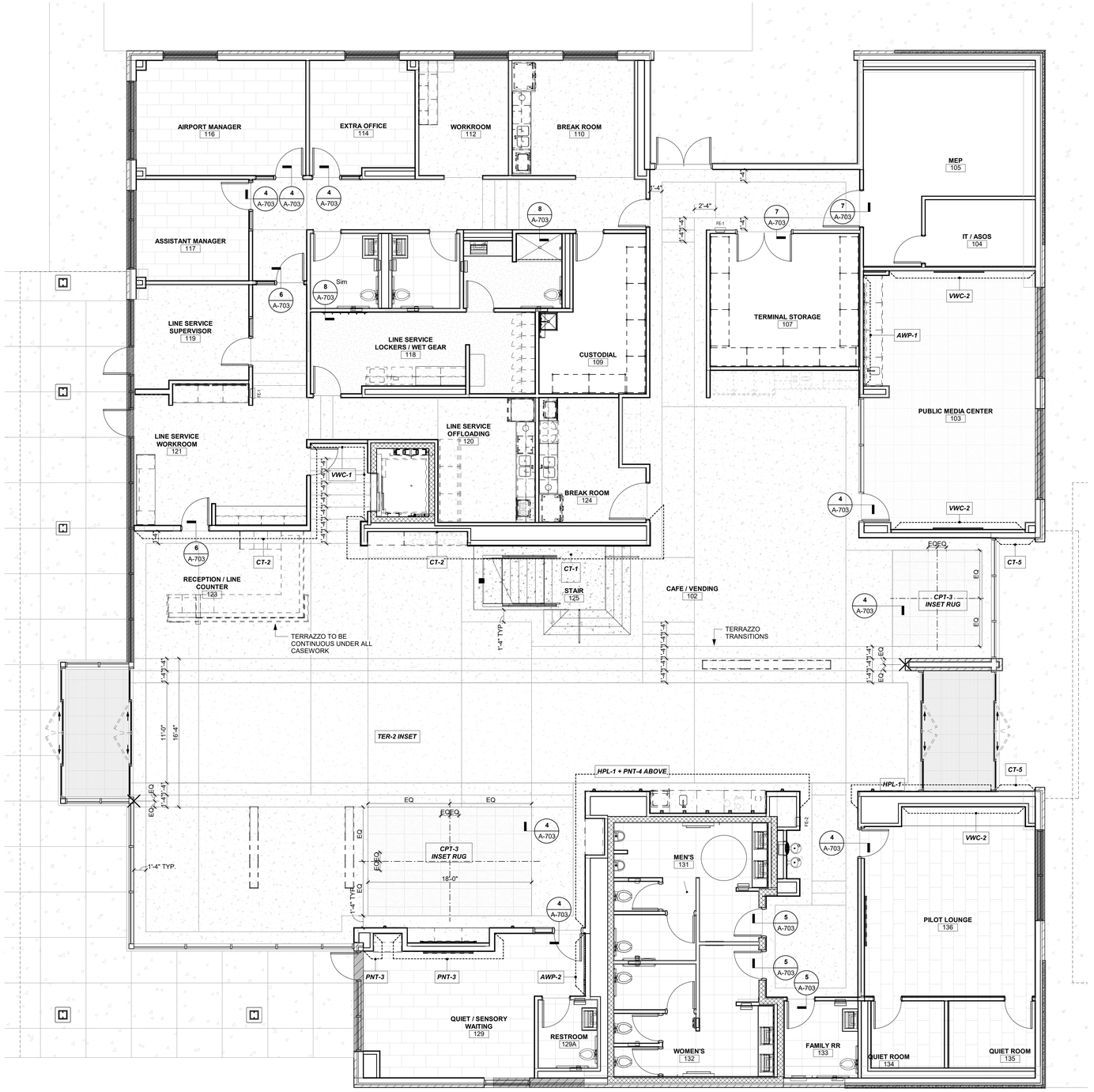
EXPANSION JOINTS @ EPOXY TERRAZZO 6
6" = 1'-0"

PORCELAIN TILE TO EPOXY TERRAZZO 5
6" = 1'-0"

CARPET TO EPOXY TERRAZZO 4
6" = 1'-0"



FINISH PLAN, MEZZANINE 2
3/16" = 1'-0"



FINISH PLAN, 1ST FLOOR 1
3/16" = 1'-0"

ROLLER SHADES KEY

AUTOMATIC ROLLER SHADES

MANUAL ROLLER SHADES

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REGISTERED ARCHITECT

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LEES SUMMIT, MO

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FINISH FLOOR PLANS

A-703
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Appliance Schedule

MARK	Type	Manufactuer	Model #/SKU	RM #	QTY	Furnished By	Comments
AP01	23.3 Cu. Ft. Counter-Depth French Door Refrigerator	Frigidaire Professional	PRFG2383AF	110, 124	2	CP-CI	
AP02	24" W Undercounter Refrigerator	Summit	162-AL54 • MPN: AL54	120	1	CP-CI	
AP03	23 1/2"W Undercounter Refrigerator w/ Glass Door	Summit	162-ALBV2466CSS • MPN: ALBV2466CSS	101A	1	CP-CI	
AP04	Glass Front Refrigerator Reach-in One-section	True	MFG #TS-23G-HC-FGD01	120	3	CP-CI	
AP05	2.2 Cu. Ft. Built-In Microwave	Frigidaire Professional	PMBS3080BF	120, 124	2	CP-CI	Install with Trim Kit
AP06	1.6 Cu. Ft. 1250Watt Countertop Microwave	Panasonic	NN-SN77HSATH SKU:6580627	110	2	CP-CI	
AP07	30" Electric Range ADA	Frigidaire Professional	PCFE3080AF	124	1	CP-CI	
AP08	Undercabinet Range Hood	Broan	BUEZ130SS	124	1	CP-CI	
AP09	Washer	Speed Queen	TR7003WN	118	1	CP-CI	
AP10	Dryer	Speed Queen	DR7004WE	118	1	CP-CI	
AP11	Dishwasher 24" Stainless Steel ADA	Bosch	SGE78C55UC	110, 124	2	CP-CI	
AP12	30" W Ice Maker	Koolaire	700-KYT0500A161 • MPN: KYT0500A 161	120	1	CP-CI	

Restroom Accessories Schedule

MARK	DESCRIPTION
RA1	Bobrick B-43944 Semi-Recessed Towel Dispenser & Waste Receptacle
RA2	ADA Grab Bar Set (18", 36", & 42")
RA3	Bobrick B-3574 Recessed Toilet Tissue / Seat Cover Dispenser / Waste Disposal, Left Side While Seated
RA4	Bobrick B-35745 Recessed Toilet Tissue / Seat Cover Dispenser / Waste Disposal, Right Side While Seated
RA5	Channel-Frame Mirror, Anti-fog
RA6	Bobrick B-9542 Fino Collection Surface Mounted Coat Hook
RA7	KB310-SSWM Baby Changing Station Closed Position
RA8	KB311-SSRE Baby Changing Station Closed Position
RA9	Bobrick B-370634 25 TrimLine Series Semi-Recessed 50 Cent Napkin-Tampon Vendor
RA10	Bobrick B-239 Utility Shelf with Rag Hooks and Broom Holders
RA11	Bobrick B-204-3 Vinyl Shower Curtain with Shower Curtain Hooks, Bright Polished
RA12	Bobrick B-6047x60 Classic Series Shower Curtain Rod
RA13	Bobrick B-4288 Contura Series Surface Mounted Multi-roll Toilet Tissue Dispenser
RA14	Bobrick B-4221 Contura Series Surface Mounted Seat Cover Dispenser
RA15	RE:Interior Elevations Custom Mirror Anti-fog
RA16	Glass Mirror with Stainless Steel Angle Frame, Full Height
RA17	Bobrick B-232 x 24 Hat & Coat Rack w/3 Hooks

Wall Guard Schedule

MARK	DESCRIPTION
CG	Corner Guard
EG	End Wall Guard

Room Finish Schedule

ROOM #	ROOM NAME	Floor Finish	Base Finish	Wall Finishes				Ceiling Finish	Notes
				North	East	South	West		
100	VESTIBULE	WOG-1	RES-1	PNT-1	-	HPL-1	-	APC-2	
101	CONCOURSE	TER-1/TER-2	RES-1	PNT-1				APC-2 + APC-4	
101A	COFFEE	-	CWT-3	-	HPL-1	CT-5	HPL-1	HPL-1	
102	CAFE / VENDING	TER-1	RES-1	PNT-1	PNT-1	-	PNT-1	GYP/APC-5 + APC-2	
103	PUBLIC MEDIA CENTER	CPT-2	RES-1	VWC-2	PNT-1	PNT-1	PNT-1	GYP/APC-2	
104	IT / ASOS	SC-1	RES-2	PNT-1	PNT-1	PNT-1	PNT-1	-	
105	MEP	SC-1	RES-2	PNT-1	PNT-1	PNT-1	PNT-1	-	
106	CIRCULATION (PUBLIC)	TER-1	RES-1	-	PNT-1	PNT-1	PNT-3	GYP	
107	TERMINAL STORAGE	SC-1	RES-2	PNT-1	PNT-1	PNT-1	PNT-1	APC-1	
108	CIRCULATION (PRIVATE)	TER-1	RES-1	PNT-2	PNT-2	PNT-2	PNT-2	GYP	
109	CUSTODIAL	SC-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
110	BREAK ROOM	TER-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
111	LINE RESTROOM	EPX-1	EPX-1	PNT-2	PNT-2	PNT-2	PNT-2	GYP	
112	WORKROOM	TER-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
113	RESTROOM	CT-3	-	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	GYP	
114	EXTRA OFFICE	CPT-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
115	RESTROOM	CT-3	-	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	GYP	
116	AIRPORT MANAGER	CPT-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
117	ASSISTANT MANAGER	CPT-1	RES-2	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
118	LINE SERVICE LOCKERS / WET GEAR	EPX-1	EPX-1	PNT-2	PNT-2	PNT-2	PNT-2	GYP	
119	LINE SERVICE SUPERVISOR	TER-1	RES-1	PNT-2	PNT-2	PNT-2	PNT-2	APC-1	
120	LINE SERVICE OFFLOADING	TER-1	RES-1	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	APC-1	
121	LINE SERVICE WORKROOM	TER-1	CWT-3	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	APC-1	
121A	BATTERY CHARGING	-	-	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	WP-1/PNT-2	-	
122	ELEVATOR	CT-3	-	-	-	-	-	-	
123	RECEPTION / LINE COUNTER	CT-1/2	CWT-3	CT-2	-	-	-	APC-2	
124	BREAK ROOM	TER-1	RES-1	PNT-1	PNT-1	PNT-1	PNT-1	APC-1	
125	STAIR	TER-1	-	CT-1	-	-	-	-	
126	FIGHT PLANNING	TER-1	-	CT-1	-	-	-	-	
127	VESTIBULE	WOG-1	RES-1	-	-	-	-	APC-2	
128	PASSENGER WAITING	TER-1/CPT-3	RES-1	-	-	PNT-1	-	APC-2 + APC-4	
129	QUIET / SENSORY WAITING	CPT-1	RES-1	VWC-3/PNT-3	AWP-2	VWC-3	VWC-3	GYP	
130	CIRCULATION (PUBLIC)	TER-1	RES-1	-	VWC-1/PNT-4	VWC-1	VWC-1	GYP	
131	MEN'S	CT-3	-	CT-2	CT-2	CT-2	CT-2	GYP	
132	WOMEN'S	CT-3	-	CT-2	CT-2	CT-2	CT-2	GYP	
133	FAMILY RR	CT-3	-	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	CT-2/PNT-1	GYP	
134	QUIET ROOM	CPT-1	RES-1	PNT-3	PNT-3	PNT-3	PNT-3	APC-1	
135	QUIET ROOM	CPT-1	RES-1	PNT-3	PNT-3	PNT-3	PNT-3	APC-1	
136	PILOT LOUNGE	CPT-1	RES-1	PNT-3	PNT-3	PNT-3	PNT-3	APC-1	
200	PASSENGER WAITING	TER-1/CPT-3	RES-1	PNT-1	PNT-3/CT-4	PNT-1	-	APC-2 + APC-4	ELIGIBLE

Finish Legend

Symbol	Manufacturer	Series/Pattern	Number	Color	Remarks
Acoustical Panel Ceiling					
APC-1	Armstrong	Optima		White	24" x 24" 9/16" Grid
APC-2	Armstrong	Metalworks Linear		Cherry	6" Wide Planks, Perforated - Interior
APC-3	Armstrong	Metalworks Linear		Cherry	6" Wide Planks, Non-Perforated - Exterior and some Lower Interior Locations
APC-4	Armstrong	Metalworks Linear		Black	12" Wide Planks, Non Perforated - In Conjunction with APC-2
APC-5	TURF	Slice	04	Light Gray	Classic C, D, & E Profiles
Acoustical Wall Panel					
AWP-1	TURF	Reed	26	Faded Denim	
AWP-2	TURF	Reed	28	Indigo	
Brick Veneer					
BRK-1	Glen Gery	Metallix Series		Titanium Metallix	Running Bond Installation. RE:Elevations
BRK-2	Glen Gery	Burlesque Glazed Series		Oyster White with Speck Glazed	Stack Bond Installation, RE:Elevations
Carpet Tile					
CPT-1	Shaw Contract	Cross Weave Tile	5T526-25100	Cobblestone	18" x 36" Ashlar Installation
CPT-2	Shaw Contract	Local Time	5T523-21486	Vibrant Tejate	18" x 36" Ashlar Installation, Conference Room
CPT-3	Shaw Contract	Dye Lab	5T041-41496	Indigo	24" x 24" Monolitic Install, Inset Rugs
Ceramic Tile					
CT-1	Milestone	Farmhouse Living		Slate	Wall Panels
CT-2	Milestone	Area 51		Black	RR & Behind Main Counter
CT-3	Anatolia	La Marca		Nero Ventio Honed	RR Floors (Match Hangar 2)
CT-4	INAX	Japanese Tile World - Yohen Boarder		Dark Mix Blue	Mezz. Fireplace
CT-5	Tilebar	Splash		Lagoon	Exterior Mosaic + Above Coffee Bar
Ceramic Tile Trim					
TRIM-1	Schluter	Schluter®-QUADEC		Clear Anodized	Outside Corners on all Tile, Top Trim on Tile to Waiscott Level, Use Connectors
Epoxy					
EPX-1	Desco	Cremona Series	FB-513	Custom Color Match Torginol Coyote	Line Service Wet Gear Locker Room + Adjoining RR, Incorporated Wall Base
High Pressure Laminate					
HPL-1	Formica	Fenix	J0754	Blu Fes	Public Facing Terminal Wall Paneling + Coffee Bar + Casework
HPL-2	Formica		6995-26	Cherry Walnut	Office Side Casework
HPL-3	Formica			White	Cabinet Interiors
HPL-4	Wilsonart	Traceless	15505	Black Velvet	Under Front Desk
Millwork Trim					
MWT-1	Fry Reglet			Millwork Insert W/ Return Keys	Wall Paneling
MWT-2	Fry Reglet			Millwork Channel L Angle w/ Return Key	Wall Paneling
MWT-3	Fry Reglet			Millwork U Channel	Front Desk
MWT-4	Fry Reglet			4" Millwork Reveal Base	Front Desk
Paint					
PNT-1	Benjamin Moore		OC-65	Chantilly Lace	Terminal Public Side Field Color
PNT-2	Sherwin Williams		0055	Light French Gray	Office Side Field Color
PNT-3	Sherwin Williams		6517	Regatta	Accent
PNT-4	Sherwin Williams		7069	Iron Ore	Accent, Hollow Metal Doors, Stairs
Precast Concrete Terrazzo					
PC-1	Wausau Tile		TZ51	Sleepy Hallow	Precast Stairs
PC-2	Wausau Tile		TZ32	Oyster Shell	For Background Color Reference Only, Match Aggregates of PC-1
Quartz					
QTZ-1	Cambria	Luxury Series		Harlow Matte	Front Desk + RR Counters
QTZ-2	Cambria	Signature Series		Hadley	Concourse Flight Planning Counter + Coffee Bar Counter
QTZ-3	Cambria	Coordinates Series		Black Rock Matte	Line Service Office Counters
Resilient Base					
RES-1	Johnsonite	Millwork - Stance	4.5"		Public Areas
RES-2	Johnsonite	Millwork - Mandalay	4.25"		Offices
Solid Surface					
SS-1	Wilsonart		D354SL	Designer White	Shower Partitions
Terrazzo					
TER-1	Desco			Custom Blend - Dark Color	MATCH PC-1, Concourse, Cafe/Vending Area, Plubic and Private Corridors + Line Service
TER-2	Desco			Custom Blend - Light Color	MATCH PC-2, Concourse Accent
Vinyl Wallcovering					
VWC-1	MDC Interior Solutions	Len-Tex Contract	7427AL	Silva	
VWC-2	MDC Interior Solutions	Thom Falica Affinity	TFC1873	Midnight	
VWC-3	MDC Interior Solutions	Thom Falica Affinity	TFC1866	Pebble	
Walk Off Grille					
WOG-1	Mats Inc.				
Wall Protection					
WP-1				Diamond Plate	Back Line Service + J Molding on Exposed Edges
Window Film					
FILM-1	Decorative Films		SXJ-0547	Feather Gradient	71" Roll Height
Wood Finish					
WF-1	VT Industries			Cherry Clear	All Wood Doors
WF-2				Walnut	Custom Casework / Wall Partitions

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SHEET TITLE

FINISH SCHEDULES

A-704

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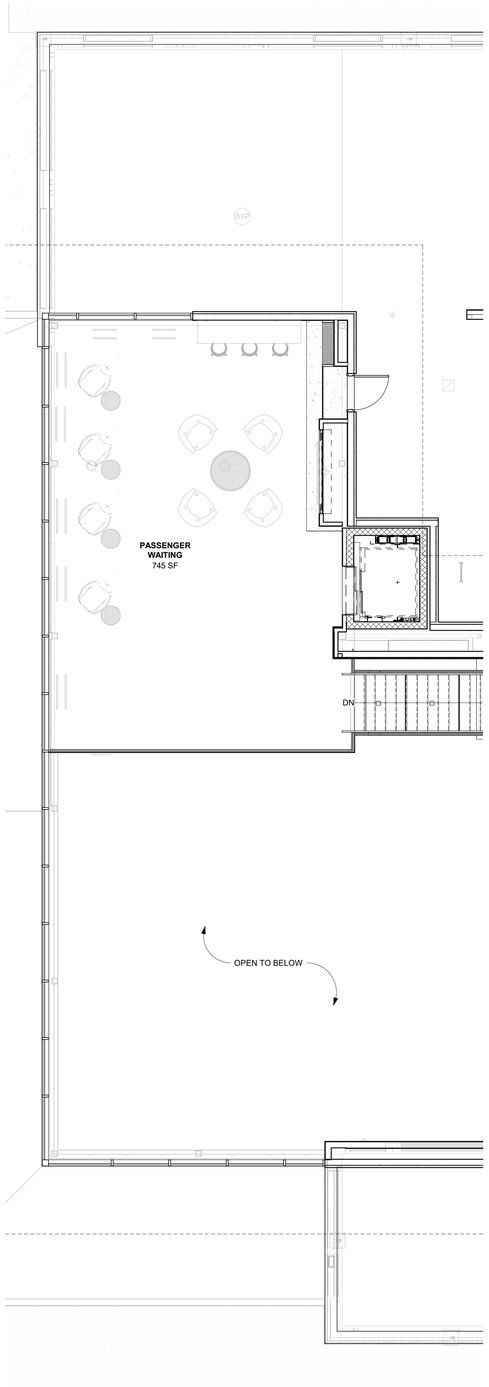
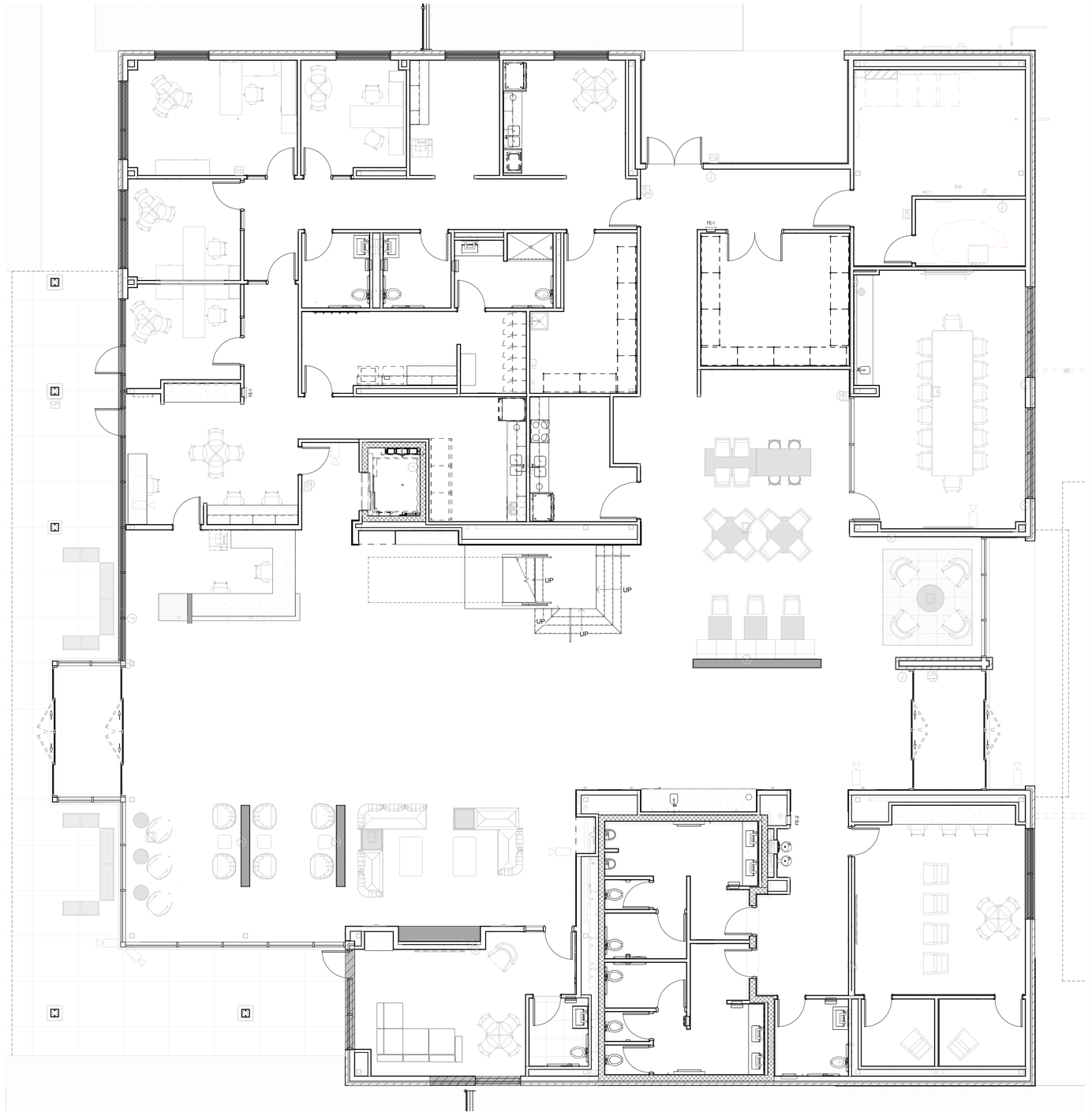


MEZZANINE - FURNITURE 2
REFERENCED FROM 1 / A-201 3/16" = 1'-0"



1ST FLOOR - FURNITURE 1
REFERENCED FROM 1 / A-201 3/16" = 1'-0"

FURNITURE PLAN NOTES

1. N.I.C. - FURNITURE PROVIDED BY OWNER

ROLLER SHADES KEY

AUTOMATIC ROLLER SHADES

MANUAL ROLLER SHADES

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DRAWN BY:	Author
CHECKED BY:	Checker
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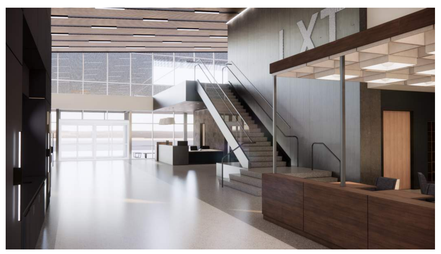
SHEET TITLE

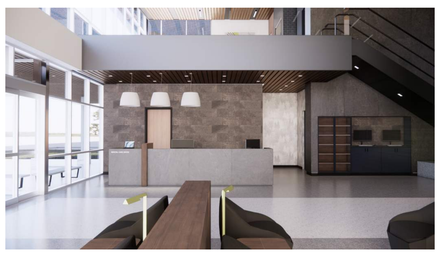
FURNITURE PLANS

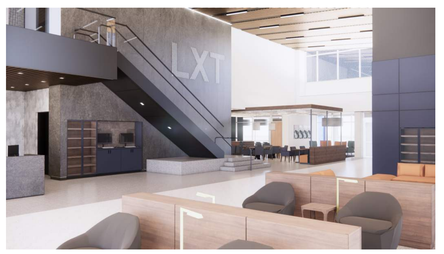
A-801

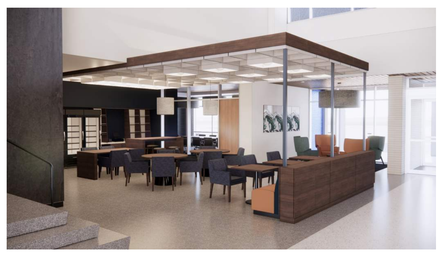
SHEET OF

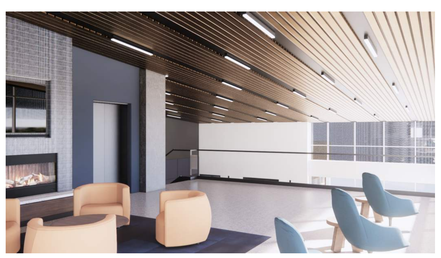
11/27/2024 9:23:37 AM











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LEE'S SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MISSOURI

GENERAL AVIATION TERMINAL
CITY PORJECT NO. - 17932172

Julie Black Wellner - Architect - MO #A-5006
STATE OF MISSOURI
JULIE BLACK WELLNER
NUMBER
A-5006
REGISTERED ARCHITECT
MO Certificate of Authority #000767

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

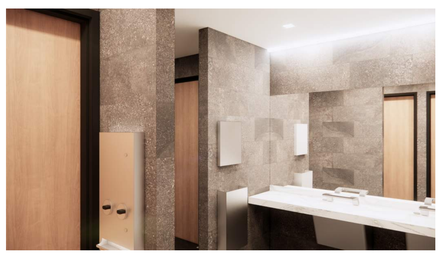
PROJECT NO:	2403
REVIT FILE:	2403 Lee's Summit Terminal-R24.rvt
DESIGNED BY:	Designer
DRAWN BY:	EM
CHECKED BY:	JSB
APPROVED BY:	Approver

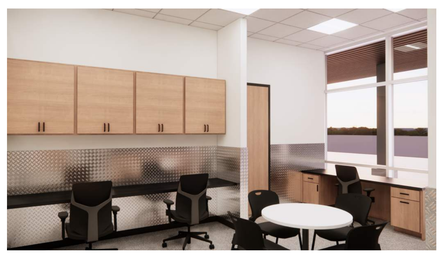
SHEET TITLE

3D VIEWS

A-901

SHEET OF





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LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

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PROJECT NO:	2403
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APPROVED BY:	Approver

SHEET TITLE

3D VIEWS

A-902

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11/27/2024 9:23:38 AM

DESIGN CRITERIA

DESIGN CODES:
INTERNATIONAL BUILDING CODE: IBC 2018
RISK CATEGORY II
DEAD LOAD:
SELF WEIGHT
COLLATERAL LOAD 5 PSF
LIVE LOAD:
ROOF LIVE LOAD 20 PSF
FLOOR LIVE 100 PSF
SNOW LOAD:
GROUND SNOW P_G 20 PSF
FLAT ROOF SNOW P_F 12.6 PSF
SNOW EXPOSURE FACTOR C_E 0.9
SNOW IMPORTANCE FACTOR I_S 1.0
THERMAL FACTOR C_T 1.0
SNOW DRIFT P_D 39.6 PSF
DRIFT WIDTH W 6'-6"
WIND DATA:
WIND SPEED V_{ULT} 109 MPH
WIND SPEED V_{ASD} 84 MPH
RISK CATEGORY II
WIND EXPOSURE C
INTERNAL PRESSURE COEF. ±0.18
COMPONENTS & CLADDING PRESSURE
Q_Z XX PSF
EARTHQUAKE DATA:
RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR 1.0
MAPPED SPECTRAL RESPONSE ACCELERATION
S_S 0.099
S_1 0.068
SITE CLASS D - DEFAULT
DESIGNED SPRECTRAL RESPONSE ACCELERATION
S_{DS} 0.106
S_{D1} 0.109
SEISMIC DESIGN CATEGORY C
BASIC SFRS STEEL BRACE FRAME - NOT SPECIFICALLY DETAILED
DESIGN BASE SHEAR 12.0K
SEISMIC RESPONSE COEF. CS 0.035
RESPONSE MODIFICATION FACTOR 3
EQUIVALENT LATERAL FORCE PROCEDURE
GEOTECHNICAL INFORMATION:
SOIL BEARING PRESSURE 3,000 PSF
FRICTION COEFICIENT 0.33
SPECIAL LOADS:
NONE
DEFLECTION REQUIREMENTS: PER IBC TABLE 1604.3

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF- SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL, PUBLIC, BUILDING AND ITS COMPONENTS PARTS, AND ADJACENT BUILDINGS AND PROPERTIES. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY OR PERMANENT SHORING, BRACING, NEEDLING, UNDERPINNING, OR SHEET PILING, ETC. THAT MAY BE NECESSARY TO BRACE NEW CONSTRUCTION, ADJACENT BUILDINGS, SO THAT THE STRUCTURE IS BRACED FOR WIND, SEISMIC, GRAVITY, CONSTRUCTION LOADS, ETC. AND THAT NO HORIZONTAL OR VERTICAL SETTLEMENT OR ANY DAMAGE OCCURS TO THE ADJACENT EXISTING STRUCTURE. TEMPORARY SUPPORTS SHALL BE MAINTAINED IN PLACE UNTIL PERMANENT SUPPORTS AND, OR SHORING AND BRACING ARE INSTALLED.
2. FALL PROTECTION SUPPORT FROM PERIMETER COLUMNS OR WALLS SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS AS REQUIRED SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENFORCE ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION FOR THE PROJECT IN A MANNER AND SEQUENCE THAT ARE BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZED THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE, WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS, OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
5. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DESIGN REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT USED IN CONSTRUCTING THIS PROJECT. SHORING AND RESHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
6. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE STRUCTURAL AND MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH THE MECHANICAL CONTRACTOR. PROVIDING ALL OPENINGS REQUIRED BY THE MECHANICAL, ELECTRICAL, PLUMBING, OR OTHER TRADES SHALL BE PART OF THE GENERAL CONTRACT, WHETHER OR NOT SHOWN IN THE STRUCTURAL DRAWINGS. ANY DEVIATION FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR REVIEW.
7. ALL CONTRACTORS ARE REQUIRED TO EXAMINE THE DRAWINGS AND SPECIFICATIONS CAREFULLY, VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS, PRIOR TO AGREEING TO PERFORM THE WORK. FAILURE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE CONTRACTOR FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.
8. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILS. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEERING OF CLARIFICATION REGARDING APPLICABILITY OF "TYPICAL DETAILS".
9. WORK THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS.
10. DO NOT SCALE DRAWINGS.
11. SHOULD ANY OF THE GENERAL NOTES CONFLICT WITH ANY DETAILS OR INSTRUCTIONS ON PLANS, THE STRICTEST PROVISION SHALL GOVERN.
12. SHOP DRAWINGS AND SUBMITTALS:
    A. THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR AND SHOP DRAWINGS AND SUBMITTALS SHALL BEAR THE CONTRACTOR'S REVIEW STAMP WITH THE CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.
    B. WHEN FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT AND ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS AND ANY OTHER REFERENCE TO THE ARCHITECT AND ENGINEER FROM THAT ERECTION DRAWING. THE FABRICATOR'S NAME AND TITLE SHALL BE PLACED ON THE ERECTION DRAWING.

EXISTING WORK

1. EXISTING CONDITIONS SHOWN OR NOTED ON THE DRAWINGS WERE OBTAINED FROM FIELD MEASUREMENTS OR WERE ASSUMED. IF CONDITIONS OTHER THAT THOSE SHOWN EXIST, IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK AT THAT LOCATION. IF CONDITIONS OTHER THAN THOSE SHOWN EXIST, ALTERNATE METHODS OF CONSTRUCTION MAY NEED TO BE USED
2. WHERE SPECIFICALLY NOTED ON THE DRAWINGS THAT EXISTING CONSTRUCTION BE VERIFIED, NOTIFY THE ENGINEER IN WRITING OF THE FINDINGS. VERIFICATION SHALL TAKE PLACE PRIOR TO PREPARATION OF SHOP DRAWINGS AND SHOP DRAWINGS SHALL SHOW ALL FIELD VERIFIED EXISTING CONDITIONS. MODIFICATIONS TO THE DETAILS MAY BE REQUIRED SHOULD ACTUAL CONDITION SIGNIFICANTLY DIFFER FROM THOSE PRESUMED. ANY REQUIRED MODIFICATIONS WILL BE MADE DURING THE REVIEW OF THE SHOP DRAWINGS.
3. USE APPROPRIATE CONSTRUCTION METHODS AND EQUIPMENT AS NECESSARY TO SUPPORT EXISTING STRUCTURES AND TO AVOID OVER STRESSING THE EXISTING STRUCTURE.
4. EXISTING FRAMING IS ASSUMED TO BE IN ORIGINAL CONDITION. IF DETERIORATION HAS OCCURRED NOTIFY THE ENGINEER IN WRITING OF THE FINDINGS. FOR EXAMPLE, SOME TYPES OF DETERIORATION ARE AS FOLLOWS: ROTTEN WOOD, BROKEN OR CRACKED MASONRY, AND BROKEN WOOD MEMBERS.

FOUNDATIONS

1. THE FOUNDATIONS ARE DESIGNED USING PRESUMPTIVE SOIL BEARING PRESSURE OF 1,500 PSF.
2. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FROST ACTION AND FREEZING DURING THE COURSE OF CONSTRUCTION.
3. NOTIFY STRUCTURAL ENGINEER OF ANY UNUSUAL SOIL CONDITIONS THAT ARE IN VARIANCE WITH THE GEOTECHNICAL REPORT.
4. FOOTING EXCAVATIONS SHOULD BE MADE TO THE REQUIRED LINES AND GRADES AS RAPIDLY AS POSSIBLE. FOOTING EXCAVATIONS BE LEFT OPEN FOR A MINIMUM OF TIME TO PREVENT DISTURBANCE TO THE FOUNDATION SOILS. FOOT TRAFFIC SHOULD BE PREVENTED ON THE BASE OF THE FOOTING EXCAVATIONS IF DISTURBANCE IS NOTED. HAND CLEANING, IF REQUIRED AND SETTING OF REINFORCING STEEL SHOULD THEN BE ACCOMPLISHED FROM THE SIDES OF THE EXCAVATION.

MASONRY

1. ALL DETAILS SHOWN SHALL BE CONSIDERED TYPICAL.
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI.
3. MORTAR FOR MASONRY OPERATIONS SHALL COMPLY WITH ASTM C270, TYPE "M" OR TYPE "S".
4. GROUT FOR MASONRY OPERATIONS SHALL COMPLY WITH ASTM C475 AND HAVE A MINIMUM 2500 PSI AT 28 DAYS USING ASTM C1019 TEST METHODS.
5. INFILL CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM AT 28 DAYS.
6. ALL BLOCK SHALL BE FILLED. MAXIMUM INFILL LIFTS SHALL BE 4 FEET.
7. MINIMUM REINFORCEMENT FOR VERTICAL WALLS SHALL BE #5 REBAR @ 32" O.C. SPACING NLESS OTHERWISE NOTED.
8. HORIZONTAL JOINT REINFORCEMENT SHALL BE REQUIRED.
9. WET STICKING OF DOWELS SHALL NOT BE PERMITTED.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI301, "SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI302, "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION", ACI305 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI306, "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING", UNLESS NOTED OTHERWISE FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED.
2. A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF KANSAS, SHALL DEVELOP CONCRETE MIX DESIGNS. SUBMIT CONCRETE MIX AND TEST DATA FOR INFORMATION, ACCEPTANCE AND PROPORTIONING CRITERA INDICATED PER ACI-318.
3. STRUCTURAL CONCRETE SHALL HAVE 28 DAY STRENGTH (F'C) AS FOLLOWS:
    A. SLABS AND FLOOR FRAMING: 4000 PSI
    B. SLAB ON GRADE: 4000 PSI
    C. CAPS: 4000 PSI
    D. CASSONS: 4000 PSI
    E. GRADE BEAMS: 4000 PSI
    F. COLUMNS & SHEAR WALLS 4000 PSI
4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI117, "SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND THE LATEST ACI DETAILING MANUAL.
5. ALL PIPE SLEEVE OPENINGS THROUGH CONCRETE SLABS SHALL BE FORMED WITH STANDARD STEEL PIPE.
6. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE THE WELDED WIRE FABRIC OR TOP REINFORCING OF SLAB.
7. ALL ALUMINUM IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL BE COATED WITH TWO COATS OF COAL TAR EPOXY, APPROVED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
8. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1 ½ HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE PERMITTED. ALL WATER MUST BE ADDED AT THE BATCH PLANT. SLUMP MAY BE ADJUSTED ONLY THROUGH THE USE OF ADDITIONAL WATER REDUCING ADMIXTURES OR HIGH RANGE WATER REDUCING ADMIXTURE.
9. ALL CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS, EXCEPT WHERE SPECIFICALLY NOTED.
10. ALL EXPOSED EDGES OF CONCRETE MEMBERS SHALL BE CHAMFERED ¾" UNLESS SHOWN OTHERWISE.
11. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES, MASONRY ANCHORS, AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
12. THE PLACEMENT OF SLEEVES, OUTLET BOXES, BOX-OUTS NOT COVERED BY TYPICAL DETAILS IN THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.
13. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, NO TACK WELDING FOR REINFORCING IN THE FIELD WILL BE PERMITTED.
14. REINFORCING BARS FOR WELDED APPLICATIONS SHALL CONFORM TO ASTM A706, 60 KSI YIELD STRENGTH
15. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A185 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS.
16. WIRE BAR SUPPORTS SHALL BE FURNISHED FOR ALL REINFORCING WITHIN SLABS, INCLUSIVE OF WELDED WIRE FABRIC. BOTTOM BARS IN SLABS-ON-GRADE MAY BE SUPPORTED BY OTHER SUITABLE SUPPORTS. REINFORCING SHALL BE PROPERLY POSITIONED PRIOR TO CONCRETE PLACEMENT AND MAY NOT BE RE-POSITIONED ONCE CONCRETE OPERATIONS HAVE BEGUN. WIRE BAR AND OTHER TYPES OF SUPPORTS SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE MANUAL OF STANDARD PRACTICE.
17. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE NOTED ON DRAWINGS.
18. ALL HOOKS SHOWN ON DRAWINGS SHALL BE STANDARD HOOKS, UNLESS OTHERWISE NOTED.
19. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL RUN CONTINUOUSLY AROUND CORNERS AND BE LAPPED AT NECESSARY SPLICES. LAP LENGTHS SHALL BE AS GIVEN IN THE SPLICE AND DEVELOPMENT TABLE.
20. PROVIDE ADDITIONAL REINFORCING AT THE SIDE AND CORNERS OF ALL OPENINGS IN CONCRETE IN ACCORDANCE WITH TYPICAL DETAILS. MINIMUM ADDITIONAL REQUIREMENTS ARE AS FOLLOWS.
    A. (2)-#5 TOP AND BOTTOM IN SLABS
    B. (2)-#5 EACH FACE IN WALLS
    C. (2)-#5 X 4'-0" LONG DIAGONALLY EACH CORNER OF OPENING
21. EXTEND BARS A MINIMUM OF 2'-0" BEYOND OPENINGS, HOOK WHERE EXTENSION IS NOT POSSIBLE.
22. IN REINFORCED CONCRETE WALLS, GRADE BEAMS AND TRENCH FOOTING PROVIDE CORNER DOWELS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING. DOWELS SHALL LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.
23. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT, UNLESS OTHERWISE NOTED:
    A. EARTH FORMED AND CAST DIRECTLY AGAINST SOIL- 3"
    B. CAST AGAINST FORMS BUT EXPOSED TO EARTH AND WEATHER
        a. #6 AND LARGER- 2"
        b. #5 AND SMALLER- 1 ½"
    C. SLABS AND WALLS NOT EXPOSED TO EARTH OR WEATHER- ¾"
    D. OTHERS- 2"

STRUCTURAL STEEL

1. DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND STANDARD CODE OF PRACTICE FOR THE YEAR REFERENCED IN THE BUILDING CODE NOTED, EXCEPT AS MODIFIED BY THESE NOTES AND THE PROJECT SPECIFICATIONS.
2. STEEL SHAPES SHALL CONFORM TO THE FOLLOWING GRADES UNLESS NOTED OTHERWISE:
    A. WIDE FLANGE (W) SHAPES ASTM A992 GR. 50
    B. ANGLES, CHANNELS, S & M SHAPES ASTM A36
    C. HP SHAPES ASTM A572 GR. 50
    D. STRUCTURAL HSS TUBING ASTM A500 GR. C (FY=50 KSI)
    E. STRUCTURAL HSS PIPE ASTM A500
    F. PLATES ASTM A572 GR. 50
    G. THREADED RODS ASTM A36
3. STEEL MATERIAL OF FASTENERS AND WELDS SHALL CONFORM TO THE FOLLOWING UNLESS NOTED OTHERWISE:
    A. COLUMN/BEAM CONNECTION BOLTS ASTM F3125 GR. A325
    B. ANCHOR RODS ASTM F1554
    C. NUT
    D. WASHER ASTM F436
    E. HEAVY HEX NUT ASTM A563 GR. A563
    F. PLATE WASHER ASTM A572 GR. 50
    G. WELDING ELECTRODES E70XX
4. ALL BOLTS SHALL BE TYPE N UNLESS NOTED OTHERWISE.
5. AT LONG-SLOTTED, SHORT-SLOTTED, OR OVERSIZED HOLES WASHERS SHALL BE PROVIDED. WHERE A490 BOLTS HAVE A DIAMETER > 1" USE EXTRA THICK WASHER.
6. WHERE LONG SLOTTED HOLES ARE REQUIRED PLATE WASHERS SHALL BE PROVIDED. PLATE WASHER THICKNESS MUST BE 5/16" AT ALL A325 BOLT DIAMETERS AND A490 BOLTS WITH DIAMETER <= 1 ". WHERE A490 BOLTS WITH A DIAMETER >1 " USE 3/8" PLATE WASHER.
7. ALL BOLTS IN A SLIP CRITICAL CONNECTION SHALL USE COMPRESSIBLE-WASHER-TYPE DIRECT TENSION INDICATOR MEETING ASTM F959.
8. SLIP CRITICAL, BOLTS SHALL BE CONSIDERED BEARING AND TIGHTENED TO A SNUG TIGHT CONDITION AND INSPECTED BY A TESTING AGENCY FOR CONFORMANCE WITH RCSC.
9. ALL WELDING SHALL BE CONFORM TO THE LATEST AWS D1.1.
10. CONNECTIONS OR SPLICES OF STRUCTURAL MEMBERS NOT CLEARLY INDICATED IN THE DRAWINGS ARE PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
11. ALL ANCHOR RODS/BOLTS SHALL BE SET IN CONCRETE WITH A TEMPLATE AND BE FURNISHED WILL DOUBLE NUTS.
12. FABRICATE ALL BEAMS WITH THE MILL CAMBER UP
13. ALL STEELS EXPOSED TO WEATHER AND NOT FULLY WITHIN A CONDITIONED SPACE ARE TO BE HOT DIPPED GALVANIZED PER ASTM A123 UNLESS OTHER WEATHER PROOFING METHODS HAVE BEEN SPECIFIED PER THE ARCHITECT.
14. WHEN WELDING PAINTED OR GALVANIZED STEEL AWS METHODS MUST BE FOLLOWED. DO NOT FIELD WELD GALVANIZED OR PAINTED STEEL UNLESS INDICATED ON DRAWINGS.
15. WHERE GALVANIZED SURFACES HAVE BEEN DAMAGED REPAIR THE SURFACE ACCORDING TO ASTM A780.
16. WHERE PAINTED SURFACES HAVE BEEN DAMAGED PAINT IS TO BE REAPPLIED.

METAL DECK

1. ALL METAL FLOOR DECK AND METAL ROOF DECK SHALL BE IN A 3-SPAN CONTINUOUS CONFIGURATION UNLESS NOTED OTHERWISE. WHERE 3-SPAN CONDITIONS CAN NOT BE MET THE STRUCTURAL ENGINEER IS TO BE NOTIFIED.
2. AT SUPPORTS PARALLEL TO THE DECK SPAN, RAISE SUPPORTS AND PROVIDE SHIMS AT CONNECTIONS IF THE DECK DOES NOT ENGAGE THE SUPPORT.
3. ALL MISCELLANEOUS ACCESSORIES (POUR STOPS, COLUMN CLOSURES, ETC.) WILL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE STEEL DECK INSTITUTE.
4. MEP EQUIPMENT OR OTHER TYPES OF REQUIRED ITEMS SHALL NOT BE SUSPENDED/HUNG FROM ANY METAL ROOF DECK. ALL ITEMS REQUIRING THESE TYPES OF ATTACHMENTS ARE TO BE SUPPORTED BY AT THE STRUCTURAL STEEL FRAMING.
5. VERIFY MINIMUM BEARING PER MANUFACTURER'S REQUIREMENTS.
6. FLOOR DECK
    A. DECK OVER JOIST: 1" FLOOR DECK (22 GAGE), TYPE 1.0 FD, FY=60 KSI
    B. SUPPORT FASTENER: 3/8" EFF. DIAM. ARC SPOT WELD AT 36/10 PATTERN
    C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN
7. FLOOR DECK (BREAK ROOM)
    A. DECK OVER CMU WALL: 1.5" FLOOR DECK (22 GAGE), TYPE 1.5 FD, FY=60 KSI
    B. SUPPORT FASTENER: #12 SCREWS WITH 36/7 PATTERN
    C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN
8. ROOF DECK (FRONT CHASE)
    A. DECK OVER JOIST: TYPE 1.5B (22 GAGE), FY=40 KSI MIN.
    B. SUPPORT FASTENER: #12 SCREWS WITH 36/4 PATTERN
    C. SIDE LAP FASTENER: (1) #10 SCREW PER SPAN

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KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

THOMAS C. CLAPHAM
NUMBER PE-2003000020
PROFESSIONAL ENGINEER
STATE OF MISSOURI

10/25/24

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	24KC50013
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE

GENERAL NOTES

S-001

10/24/2024 4:58:54 PM

PRECAST CONCRETE

1. DESIGN, FABRICATE, TRANSPORT AND ERECT PRECAST MEMBERS ACCORDING TO THE LATEST ACI AND PCI BUILDING CODES, HANDBOOKS AND MANUALS.
2. SPECIFIED PRECAST CONCRETE 28 DAY MINIMUM CONCRETE COMPRESSIVE STRENGTH:
   A. PRECAST HOLLOW CORE PLANKS 6,000 PSI
   B. PRECAST BEAMS 5,000 PSI
   C. PRECAST COLUMNS 7,000 PSI
   D. PRECAST WALL PANELS 6,000 PSI
3. ALL MEMBERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE SPANS AND LOADING CONDITIONS AS INDICATED ON THE STRUCTURAL PLANS AND ARCHITECHURAL LAYOUTS AND ELEVATIONS. THE PRECAST CONTRACTOR IS RESPONSIBLE FOR PICK-UP POINT LOCATIONS AND INSERTS, AND SPECIAL PICK-UP REINFORCING AND STRONG-BACKS FOR ALL PICK-UP AND PLACING OPERATIONS. THE PRECAST CONTRACTOR SHALL DESIGN ALL CONNECTIONS TO THE STRUCTURE AND BETWEEN PRECAST MEMBERS. ALL DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW AND RECORD PRIOR TO THE START OF FABRICATION.
4. ROOF PLANKS SHALL BE DESIGNED FOR COCENTRATED POINT LOADS AS SHOWN ON PLANS IN ADDITION TO LOADS STATED UNDER DESIGN CRITERIA.
5. SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL ELEMENTS, DETAILS, CONNECTIONS AND STRUCTURAL TOPPING (IF REQUIRED) TO THE STRUCTURAL ENGINEER AND ARCHITECT FOR REVIEW PRIOR TO THE START OF FABRICATION.
6. ALL PRECAST MEMBERS SHALL BE ADEQUATELY BRACED UNTIL ALL CONNECTIONS ARE COMPLETED AND THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE AS DESIGNED, AND THE GROUT AT DESIGN STRENGTH. BRACING SHALL BE DESIGNED BY A REGISTURED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI.
7. PRECAST MANUFACTURER SHALL INCLUDE IN FABRICATIN EMBEDDED CONNECTION HARDWARE FOR TEMPORARY BRACING FOR ALL PRECAST MEMBERS.
8. DRILLING THROUGH PRECAST HOLLOW CORE PLANKS SHALL BE BY ROTARY DRILL ONLY. DO NOT USE A HAMMER DRILL. LOCATE CORE VOIDS FOR DRILLING. DO NOT DRILL INTO "NO-DRILL" ZONES WHERE PRE-STRESSING STRANDS ARE LOCATED.

COLD FORMED STEEL CONNECTIONS

1. ALL FASTENERS ARE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. DO NOT SUBSTITUTE FASTENERS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
2. PAF POINT MUST PENETRATE THROUGH FULL BASE STEEL THICKNESS. NOTIFY PAF MANUFACTURER FOR INSTRUCTIONS WHERE FULL PENETRATION IS NOT ACHIEVED.
3. IF REQUIRED, ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH THE LATEST VERSION OF AWS D1.3-98 SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES. CONSULT AWS D19.0 WELDING ZINC COATED STEEL & ANSI STANDARD Z49.1 FOR INFORMATION REGARDING SAFE WELDING PROCEDURES.
4. MINIMUM WELD THROAT THICKNESS (T) MUST MATCH OR EXCEED THE BASE STEEL THICKNESS OF THE THINNEST CONNECTED PART UNLESS NOTED OTHERWISE.
5. IN WELDING, THE ZINC COATING ON STEEL FRAMING WILL BE BURNED AWAY; THEREFORE, A ZINC RICH PAINT MUST BE APPLIED TO THE WELD AREA TO PROVIDE CORROSION RESISTANCE.
6. ALL SCREW CONNECTIONS ARE BASED ON NASPEC SECTION E4, WHICH OUTLINES THE AISI SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS.
7. FOR SCREWS, A MINIMUM OF 1.5 X SCREW DIAMETER CLEARANCE MUST BE MAINTAINED FROM ALL EDGES OF THE STEEL MEMBERS. A MINIMUM OF 3.0 X SCREW DIAMETER ON-CENTER SPACING MUST BE MAINTAINED BETWEEN ADJACENT SCREWS.
8. POWER DRIVEN FASTENER SYSTEMS, EXPANSION ANCHOR SYSTEMS, MASONRY SCREW SYSTEMS, & ADHESIVE ANCHOR SYSTEMS CONNECTIONS ARE BASED ON LITERATURE FOR FASTENER REQUIREMENTS (E.G. SPACING, EDGE DISTANCE, BASE MATERIAL THICKNESS, ETC.). ALTERNATIVE MANUFACTURER'S FASTENERS OF COMPARABLE SPECIFICATIONS & LOAD CAPACITIES ARE ACCEPTABLE.
9. ALL TRACKS SHALL BE FASTENED TO EACH STUD WITH #8 SCREWS AT EACH FLANGE.
10. ALL PAFS SHALL BE HILTI 0.157"Ø X-U AND CONFORM TO THE FOLLOWING:
    A. PAF'S INTO STEEL SHALL HAVE ½" MINIMUM EDGE DISTANCE AND 1" MINIMUM SPACING.
    B. PAF'S INTO CONCRETE AT EXTERIOR WALLS SHALL HAVE 1-1/2 " PENETRATION, 3" EDGE DISTANCE AND 2-1/2" MINIMUM SPACING.
    C. PAF'S INTO CONCRETE AT INTERIOR WALLS SHALL HAVE 3/4 " PENETRATION, 3" EDGE DISTANCE AND 2-1/2" MINIMUM SPACING.
    D. SEE SHEAR WALL SCHEDULE FOR SPECIFIC REQUIREMENTS AT THESE LOCATIONS.

COLD FORMED STEEL STRUCTURAL FRAMING

1. ANY DIMENSIONAL INFORMATION SHOWN INCLUDED FOR ENGINEERING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BUILDING DIMENSIONS WITH THE A/E AND MEP DRAWINGS AND TO COMPLY WITH ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. SHOP DRAWINGS MUST BE SUBMITTED FOR ALL COLD FORMED STRUCTURAL STUD FRAMING.
3. ALL MATERIAL PROPERTIES, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE THE LATEST EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS."
4. ANY PROPRIETARY CONNECTORS SHOWN HAVE BEEN SELECTED BASED ON SPECIFICATIONS AND CAPACITIES PUBLISHED BY THE MANUFACTURER. WELD DESIGN VALUES HAVE BEEN BASED ON THE LATEST EDITION OF THE AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STRUCTURAL MEMBERS." ANY DEVIANCE FROM THE BRAND, TYPE, SIZE OR QUANTITY OF CONNECTORS INDICATED ON THESE DRAWINGS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
5. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR AT AN ANGLE TO FIT SQUARELY AGAINST ABUTTING MEMBERS. SPLICING OF AXIALLY LOADED MEMBERS SHALL NOT BE PERMITTED. MEMBERS SHALL BE HELD FIRMLY IN PLACE UNTIL PROPERLY FASTENED. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF COMPONENTS IS NOT PERMITTED.
6. MEMBERS SHALL NOT BE SPLICED OTHER THAN AT THE LOCATIONS INDICATED ON THE DRAWINGS. ALL SPLICES SHALL CONFORM TO THE DETAILS IN THE DRAWINGS.
7. CONTRACTOR SHALL VERIFY SIZES AND LOCATIONS OF STRUCTURAL COMPONENTS WHERE MEMBERS ATTACH.
8. ALL LOAD BEARING JOISTS SHALL HAVE BLOCKING WITH A MAXIMUM SPACING OF 8 '-0" ON CENTER, ATTACHED PER DETAILS.
9. TEMPORARY BRACING SHALL BE PROVIDED & REMAIN IN PLACE UNTIL WORK IS COMPLETELY STABILIZED.
10. NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS STATED WITHIN THIS DRAWING PACKAGE.
11. DESIGN ASSUMES CONDITIONS TO BE STABILIZED AND IN FINAL LOCATION. TEMPORARY BRACING (BY OTHERS) OR OTHER MEANS OF STABILIZATION MAY BE REQUIRED UNTIL FRAMING IS IN ITS STABLE & FINAL CONDITION.
12. PER AISI STANDARD, THE MAXIMUM ALLOWABLE GAP (MEASURED BETWEEN THE WEB OF THE STUD AND OF THE TRACK) FOR A STUD SEATED IN A TRACK IS 1/4" FOR NON-AXIAL LOAD BEARING CONDITIONS AND 1/8" FOR AXIAL LOAD BEARING CONDITIONS (U.N.O.) PRESSURE SHOULD BE APPLIED TO NEST THE STUDS INTO THE TRACKS UNTIL THE TOLERANCES LISTED ABOVE ARE ACHIEVED. FAILURE TO DO SO COULD RESULT IN SERVICEABILITY PROBLEMS IN THE FUTURE.

SPECIAL INSPECTIONS

1. THE OWNER SHALL BE RESPONSIBLE FOR THE COSTS OF ALL REQUIRED SPECIAL INSPECTIONS. ALL SPECIAL INSPECTIONS ARE TO BE SCHEDULED AND COORDINATED BY THE CONTRACTOR. SPECIAL INSPECTORS SHALL BE A QUALIFIED PERSON(S) WITH DEMONSTRATED COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH COPIES TO THE ENGINEER OF RECORD UNLESS OTHERWISE NOTED. INSPECTIONS SHALL BE PERFORMED AS INDICATED BELOW AND/OR PRIOR TO THAT PORTION OF CONSTRUCTION BEING CONCEALED IN THE CASE OF PERIODIC INSPECTIONS.
   A. CONCRETE PLACING
   B. CONCRETE REINFORCING
   C. STEEL BOLTING
   D. STEEL WELDING
   E. BOLTS EMBEDDED IN CONCRETE / POST-INSTALLED ANCHORS
   F. ANCHOR RODS
   G. ROOF DIAPHRAM ATTACHMENT
   H. SOIL VERIFICATION
   I. STEEL FRAME
2. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

SUBMITTALS

1. ALL SHOP DRAWINGS AND SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL. ENGINEER'S REVIEW OF THE SHOP DRAWINGS IS LIMITED TO CHECKING FOR GENERAL CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS AND MATERIALS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM THE DESIGN DRAWINGS, QUANTITIES, DIMENSIONAL ERRORS, OR OMISSIONS IN THE SHOP DRAWINGS.
2. ALL SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS AND SHALL NOT BE REPRODUCTIONS OF THESE CONTRACT DOCUMENTS.
3. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MISSOURI FOR THE FOLLOWING DELEGATED DESIGN ITEMS.
   A. STEEL FRAMING CONNECTIONS.
   B. LIGHT GAGE METAL FRAMING AND CONNECTIONS.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS.
   A. CONCRETE MIX DESIGN AND MATERIALS.
   B. CONCRETE REINFORCING STEEL.
   C. STRUCTURAL STEEL.
   D. LIGHT GAGE METAL FRAMING.
5. PROVIDE A FINAL, "FOR CONSTRUCTION" SET OF ALL SHOP DRAWINGS TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR CONSTRUCTION OF THOSE ITEMS.

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
THOMAS C. CLAPHAM
NUMBER PE-2003000020
PROFESSIONAL ENGINEER

10/25/24

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	24KC50013
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE

GENERAL NOTES

S-002

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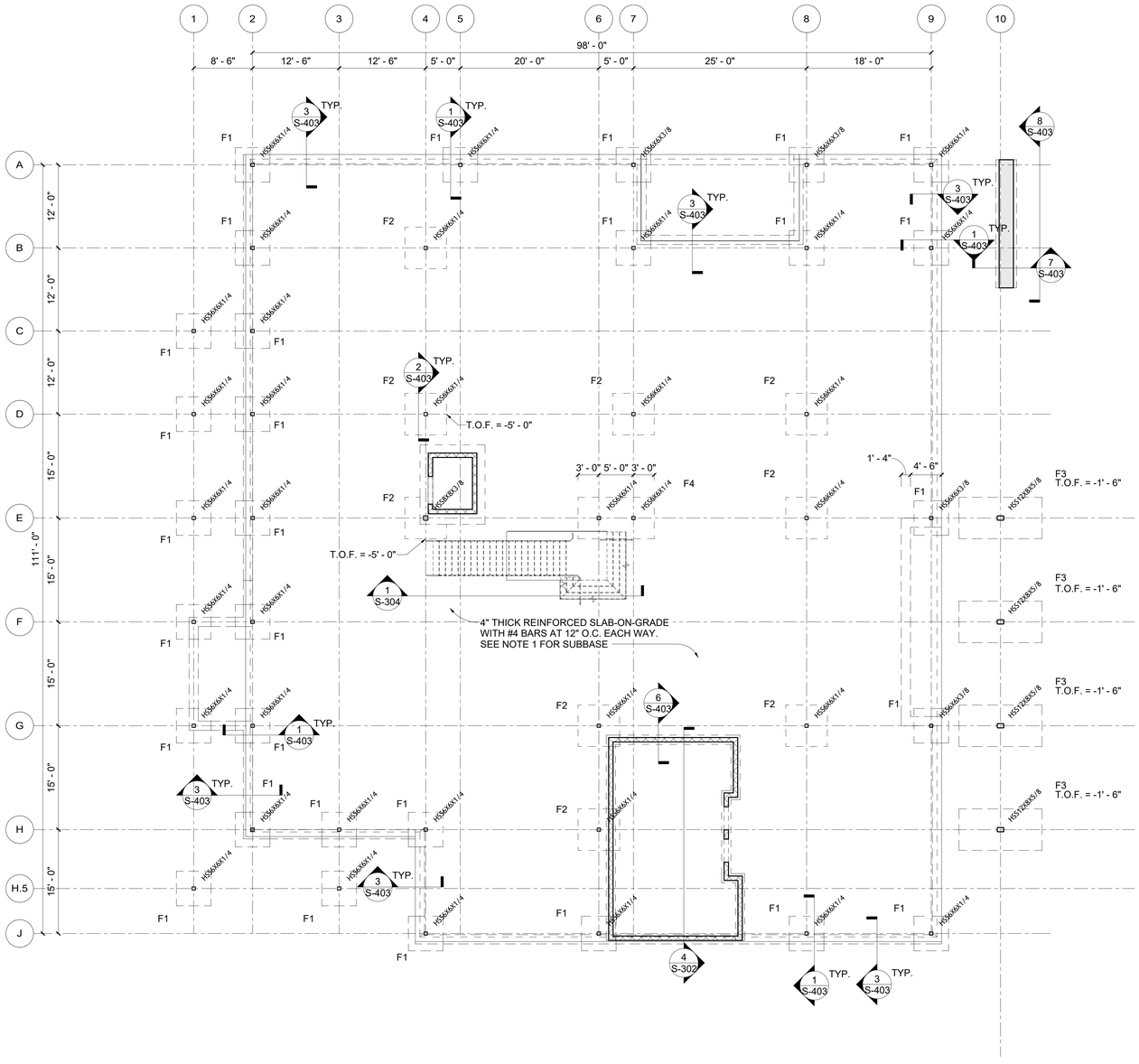

1 Foundation Plan

1/8" = 1'-0"

SPREAD FOOTING

ID	QTY.	DIMENSIONS WIDTH	DIMENSIONS LENGTH	DIMENSIONS THICKNESS	REINF. TOP	REINF. BOT	COMMENTS
F1	30	5' - 0"	5' - 0"	2' - 6"	~	#5 @ 12" O.C. E.W.	
F2	9	6' - 0"	6' - 0"	1' - 4"	~	#5 @ 10" O.C. E.W.	
F3	4	6' - 0"	12' - 0"	2' - 6"	5 - #8 LONG. 10 - #8 TRANS.	5 - #8 LONG. 10 - #8 TRANS.	
F4	1	11' - 0"	6' - 0"	1' - 4"	~	#5 @ 10" O.C. E.W.	

NOTES:
1. SLAB ON GRADE TO BE PLACED OVER 15-MIL VAPOR BARRIER OVER 4" CLEAN ROCK, OVER 12" CRUSHED LIMESTONE SCREENINGS PER GEOTECH REPORT
2. TOP OF FOOTING = -1' - 3" (UNLESS NOTED OTHERWISE)

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FOUNDATION PLAN

S-101

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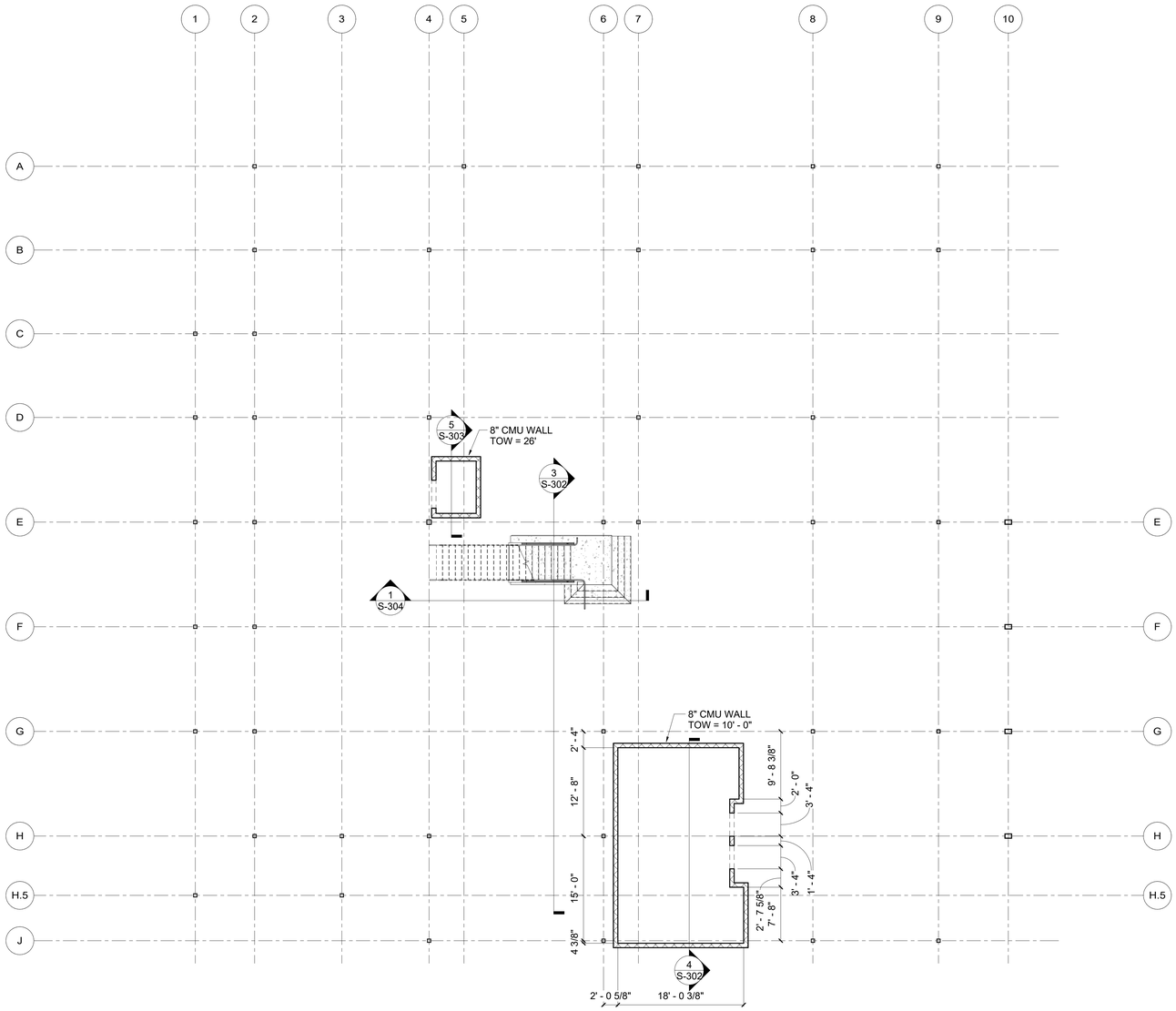

1 WALL FRAMING PLAN

1/8" = 1'-0"

NOTES:

1. CMU WALLS SHALL BE 8" NOMINAL REINFORCED W/ #5 VERTS @ 24" O.C. BOND BEAMS W/ 2 - #4 @ 48" O.C. MAX CONTINUOUS W1.7 JOINT REINFORCEMENT @ 16" O.C.

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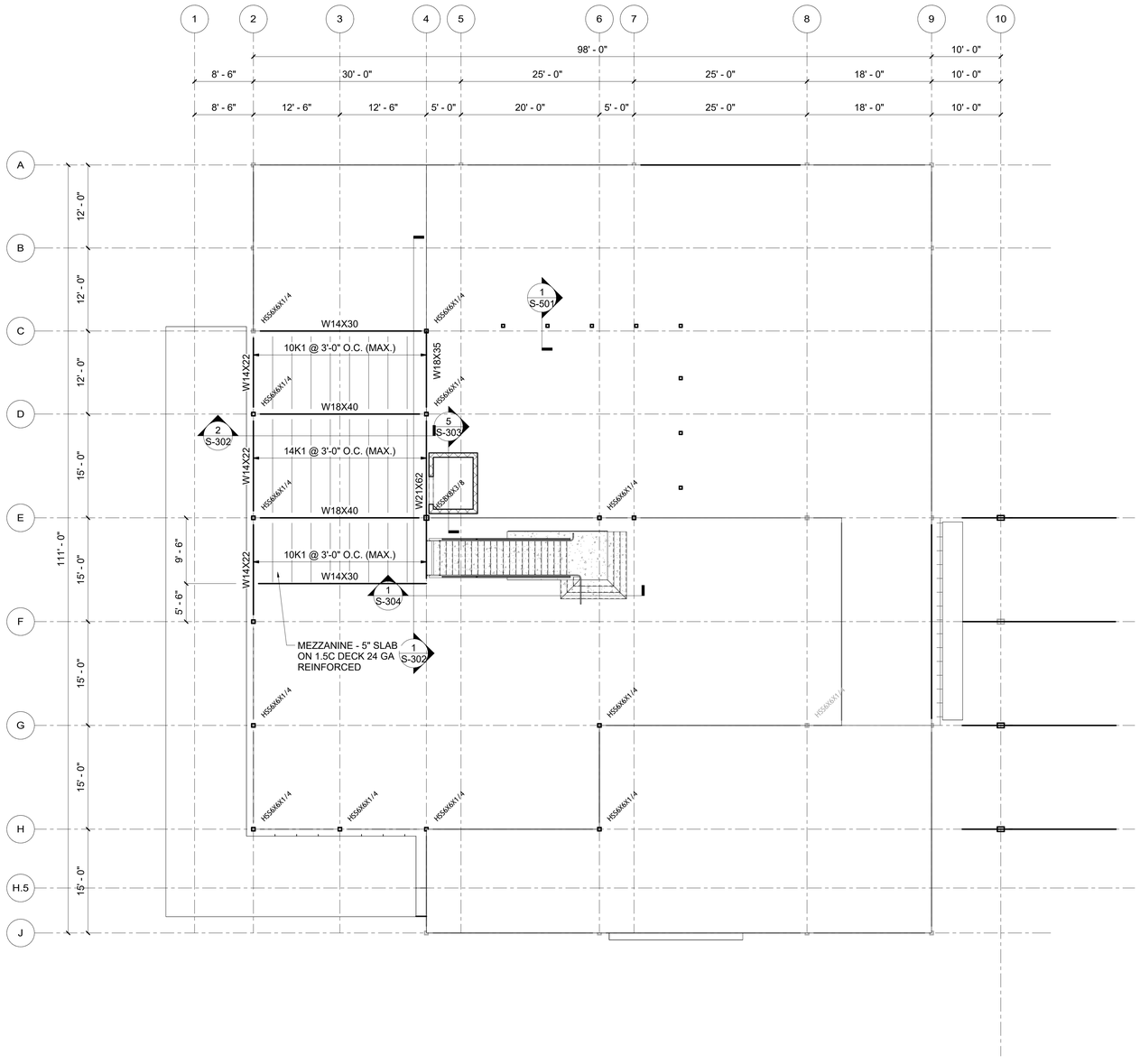
WALL FRAMING PLAN

S-102

10/24/2024 4:59:01 PM



1 FRAMING PLAN - MEZZANINE

1/8" = 1'-0"

NOTES:
1. USE 1.5C DECK 24 GA 80KSI MIN G60.
2. ATTACH DECK AS SHOWN BELOW:
   STRUCTURAL #12 - 36/4
   SIDELAP #10 - 2 PER SPAN
   EDGE #12 - 12" O.C.
3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS
4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12
5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.
6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS, AND SHALL BE DETAILED BY THE STEEL FABRICATOR.

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MEZZANINE FRAMING PLAN

S-201

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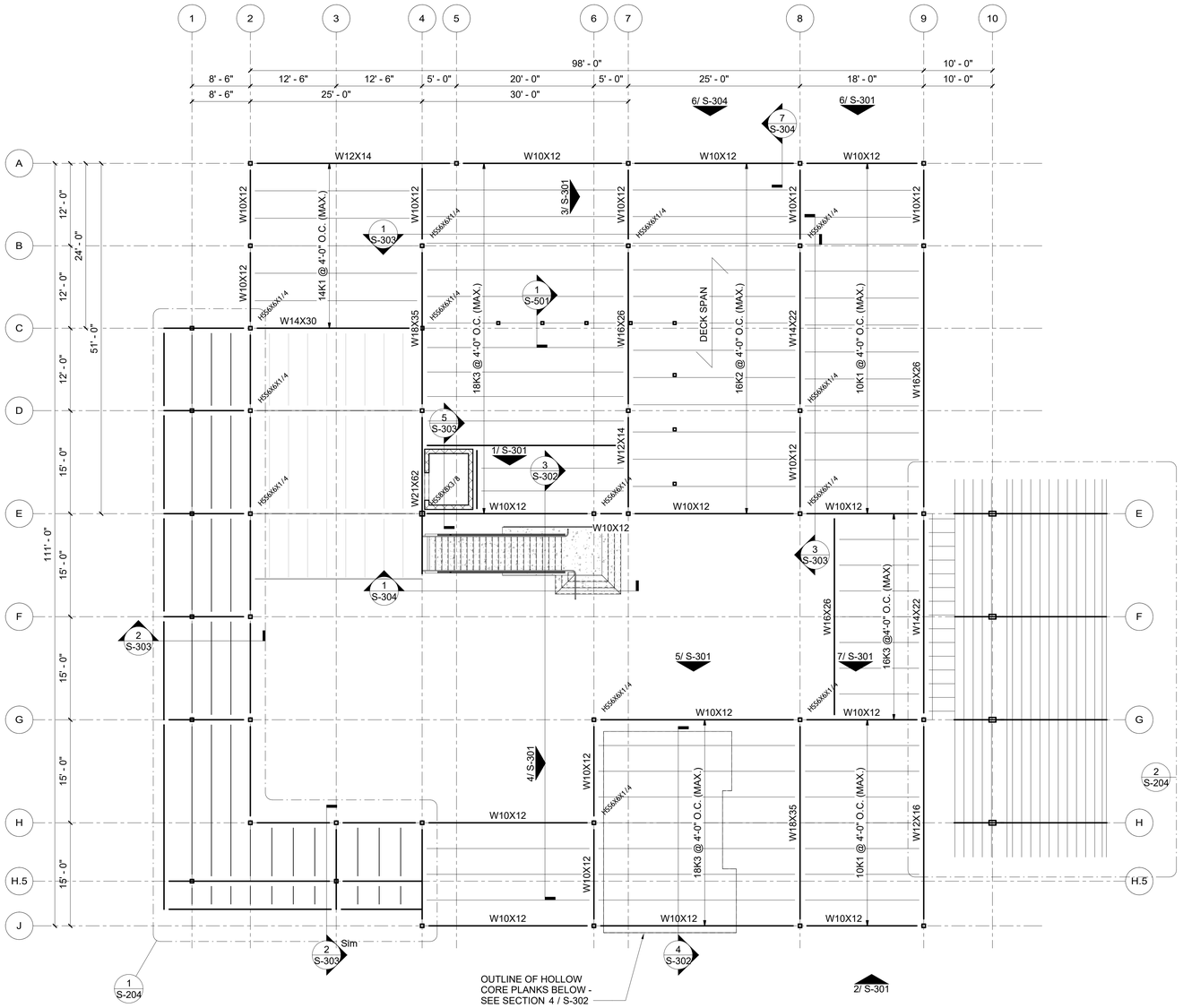

1 FRAMING PLAN - LOW ROOF

1/8" = 1'-0"

NOTES:
1. USE 1.5B DECK 22 GA 80KSI MIN G60.
2. ATTACH DECK AS SHOWN BELOW:
   STRUCTURAL #12 - 36/4
   SIDELAP #10 - 2 PER SPAN
   EDGE #12 - 12" O.C.
3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS
4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12
5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.
6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS, AND SHALL BE DETAILED BY THE STEEL FABRICATOR.

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LEES SUMMIT, MO

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LOW ROOF FRAMING PLAN

S-202

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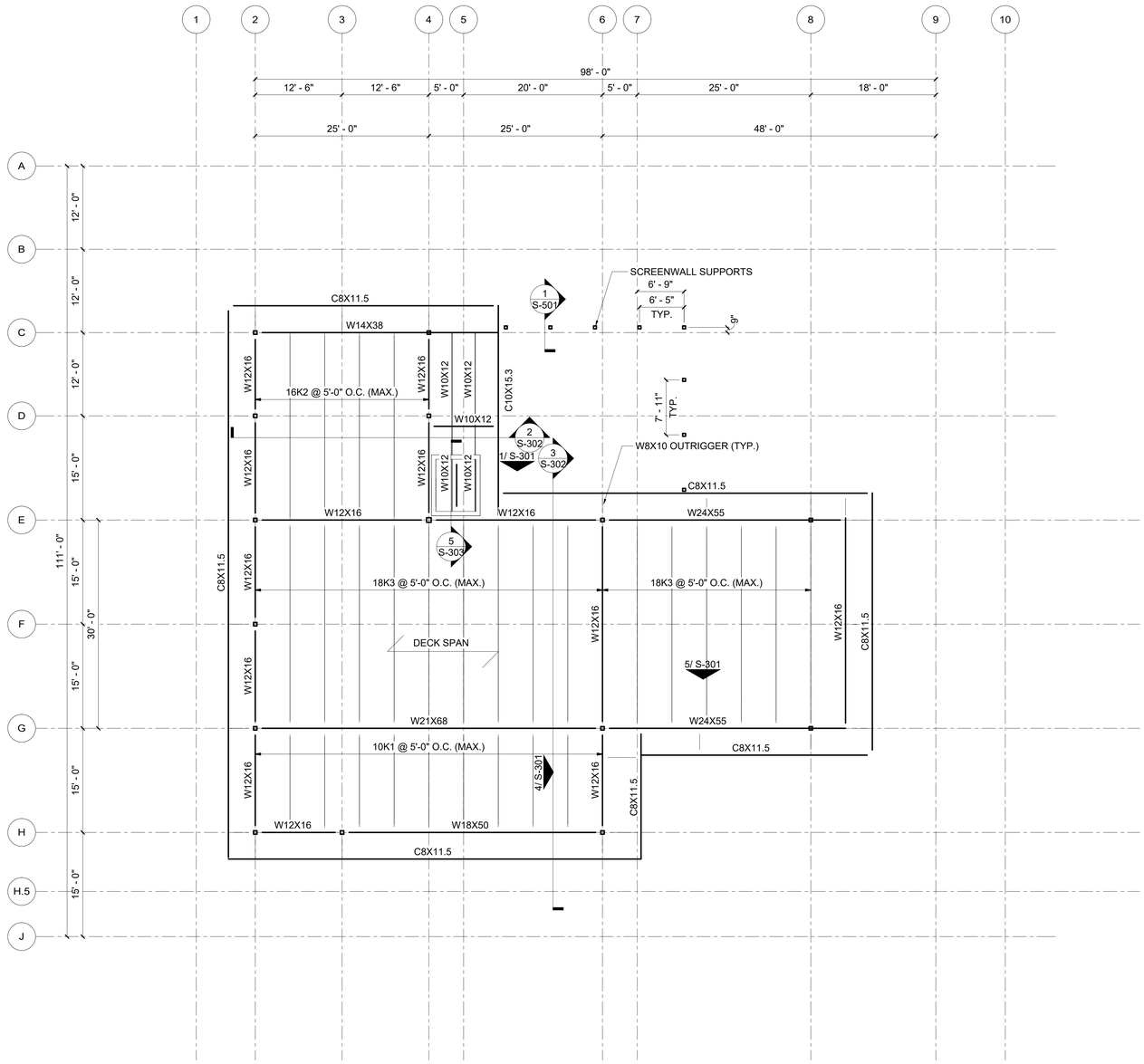

1 FRAMING PLAN - HIGH ROOF

1/8" = 1'-0"

NOTES:
1. USE 1.5B DECK 24 GA 80KSI MIN G60.
2. ATTACH DECK AS SHOWN BELOW:
   STRUCTURAL #12 - 36/4
   SIDELAP #10 - 2 PER SPAN
   EDGE #12 - 12" O.C.
3. PUDDLE WELDS MAY BE SUBSTITUTED FOR #12 SDS
4. PAF (POWER ACTUATED FASTENERS) MAY BE SUBSTITUTED FOR #10 AND #12
5. MINIMUM DECK BEARING IS 1 1/2" FOR END BEARING AND 3" FOR INTERMEDIATE BEARING.
6. ALL CONNECTIONS NOT DETAILED ON THESE PLANS SHALL BE STANDARD AISC CONNECTIONS, AND SHALL BE DETAILED BY THE STEEL FABRICATOR.

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HIGH ROOF FRAMING PLAN

S-203

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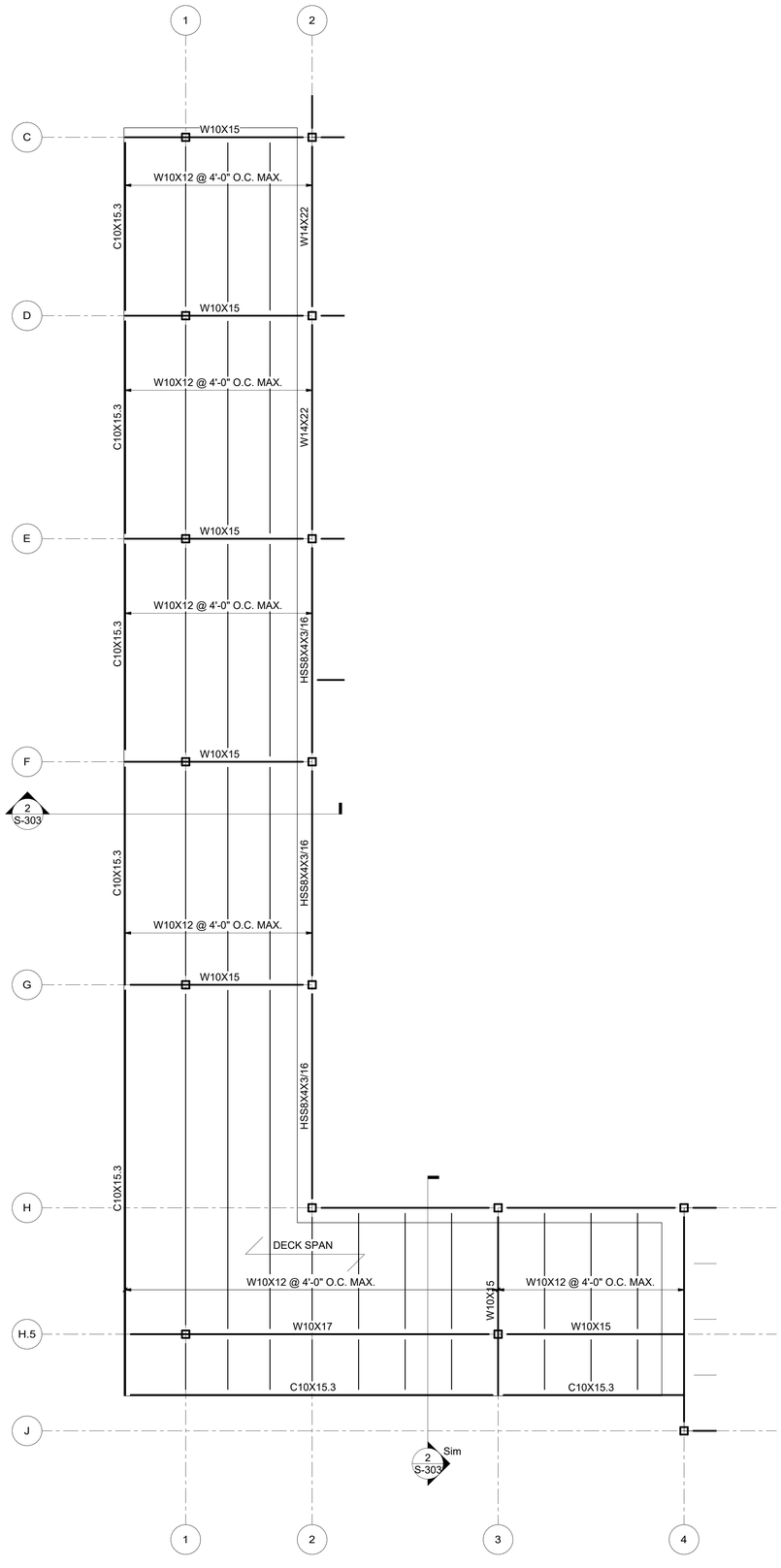
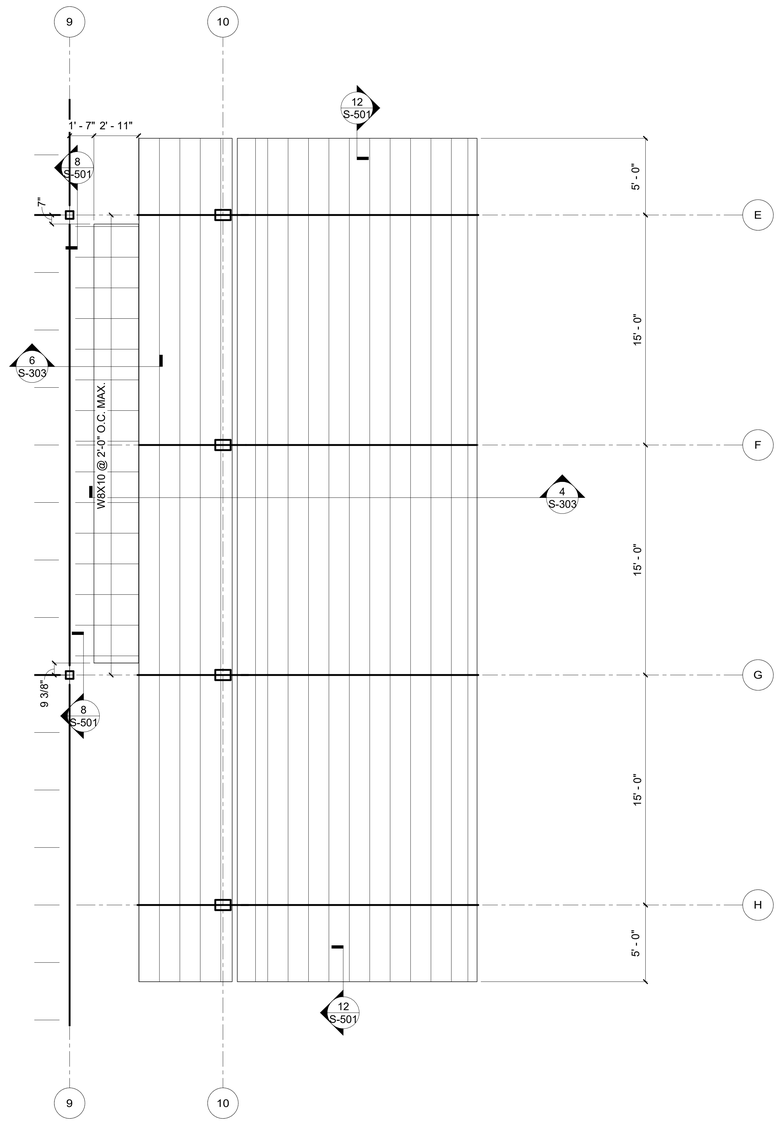


1 AIR SIDE CANOPY

1/4" = 1'-0"



2 PARK SIDE CANOPY

1/4" = 1'-0"

NOTES:
1. USE 1.5B DECK 24 GA 80KSI MIN G60.
2. ATTACH DECK AS SHOWN BELOW:
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DRAWN BY:	JDH
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APPROVED BY:	

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ENLARGED PLANS

S-204

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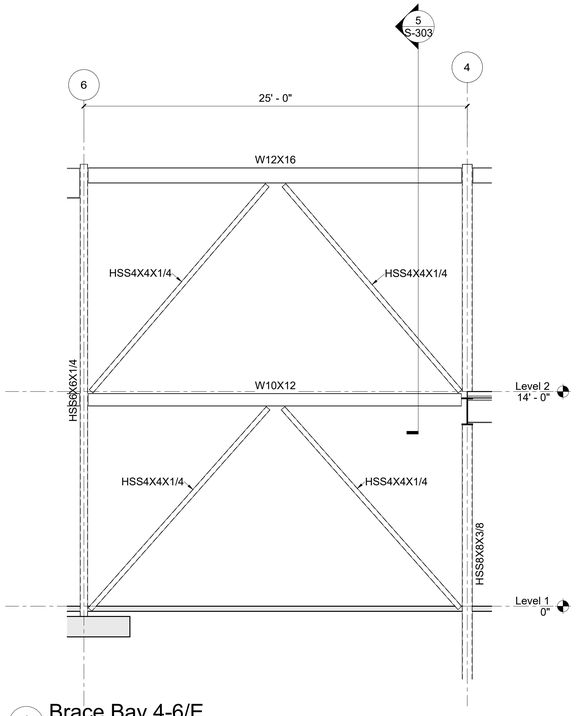
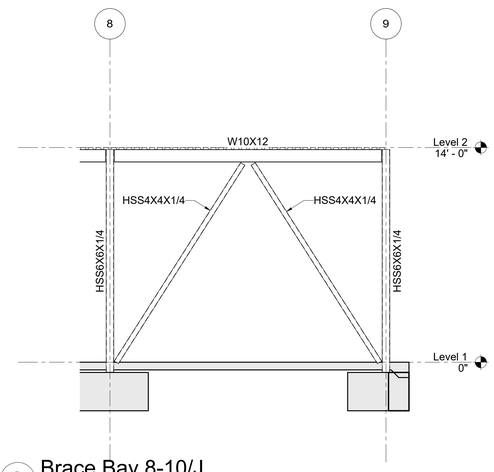
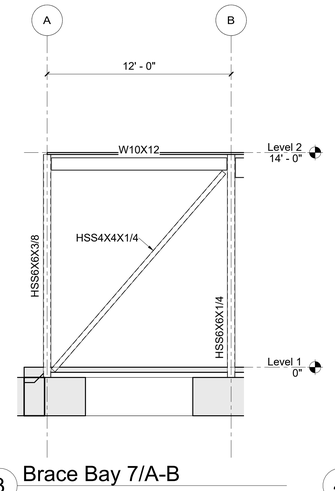


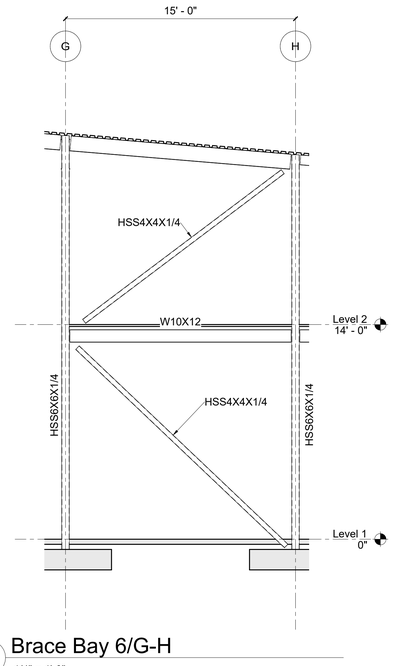
1 Brace Bay 4-6/E
1/4" = 1'-0"



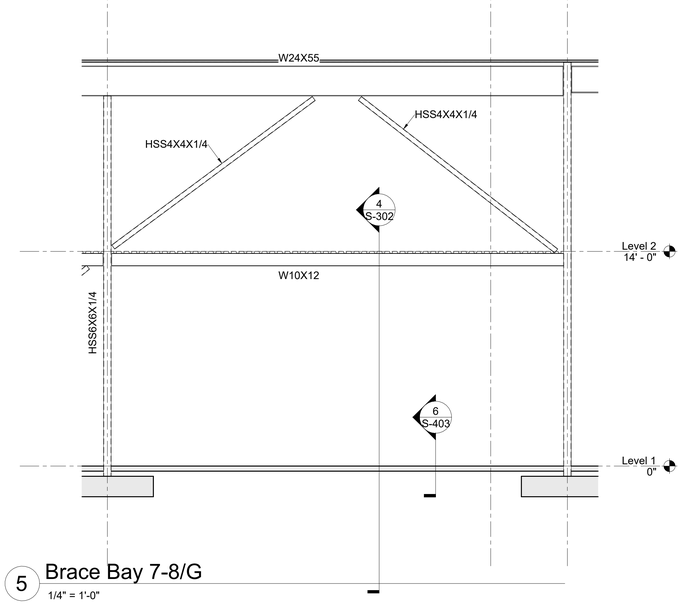
2 Brace Bay 8-10/J
1/4" = 1'-0"



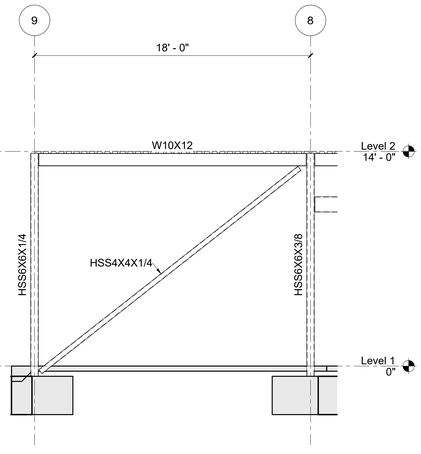
3 Brace Bay 7/A-B
1/4" = 1'-0"



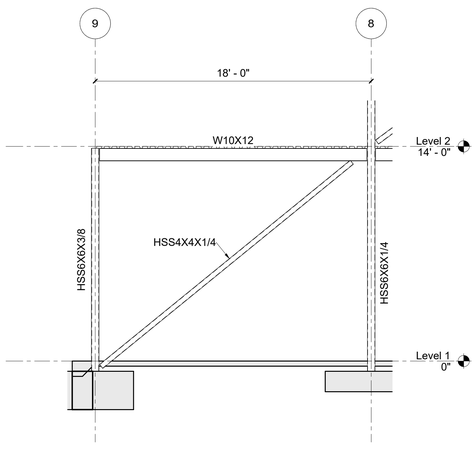
4 Brace Bay 6/G-H
1/4" = 1'-0"



5 Brace Bay 7-8/G
1/4" = 1'-0"



6 Brace Bay 8-10/A
1/4" = 1'-0"



7 Brace Bay 8-10/G
1/4" = 1'-0"

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
THOMAS C. CLAPHAM
NUMBER PE-2003000020
PROFESSIONAL ENGINEER
10/25/24

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	24KC50013
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE

BRACE BAY SECTIONS

S-301

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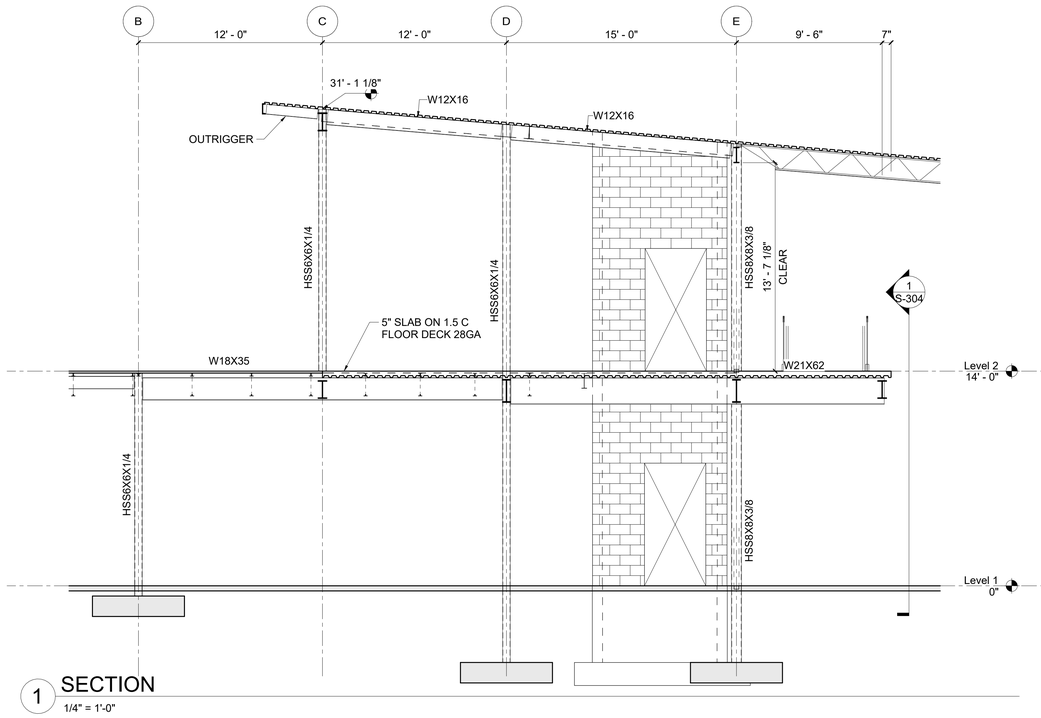
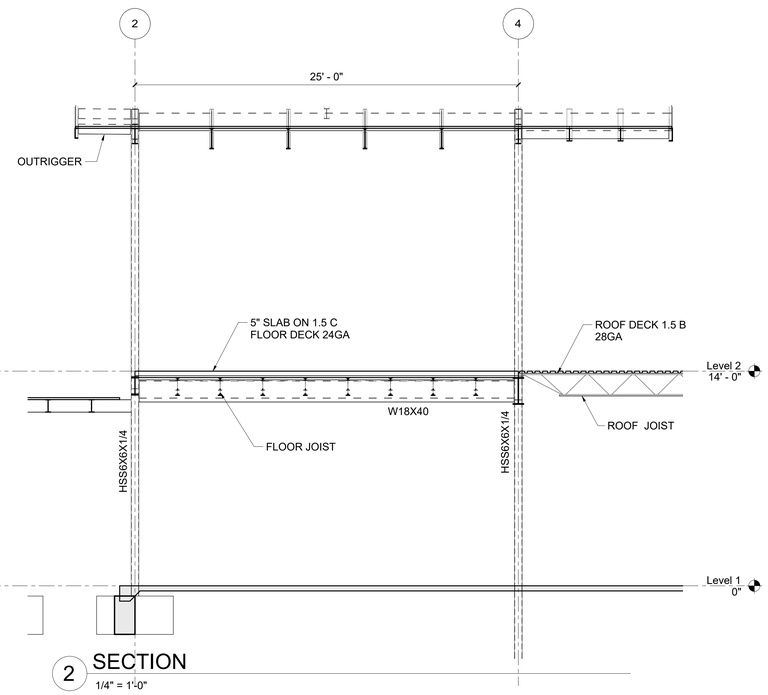


1 SECTION
1/4" = 1'-0"



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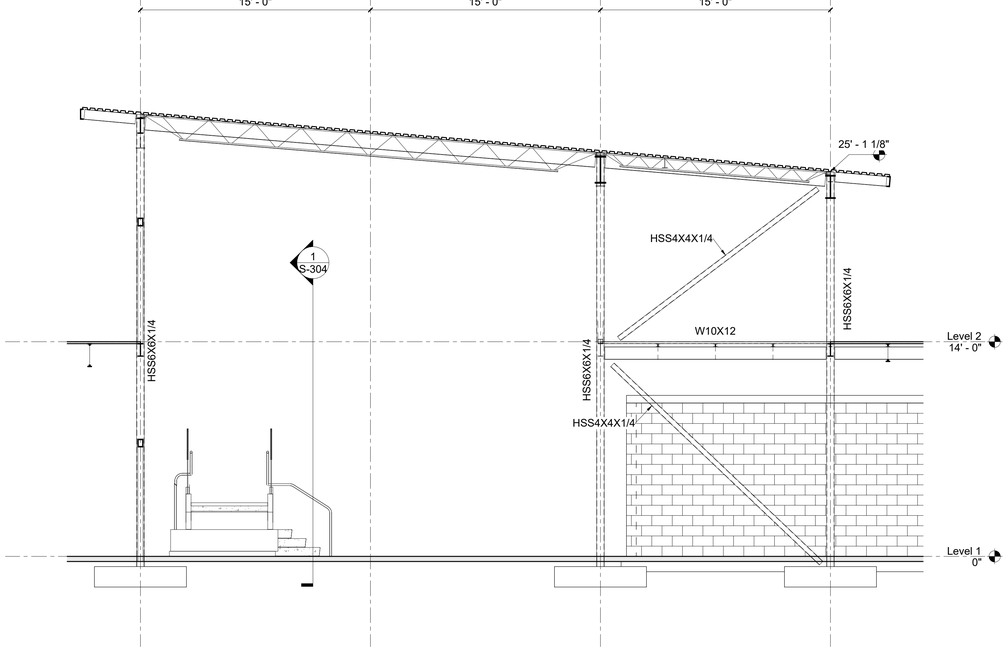

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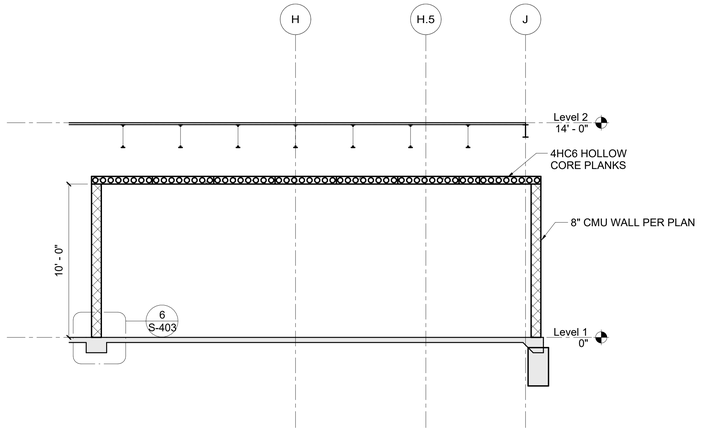

4 SECTION
1/4" = 1'-0"

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LEES SUMMIT, MO

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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE
BUILDING SECTIONS

S-302

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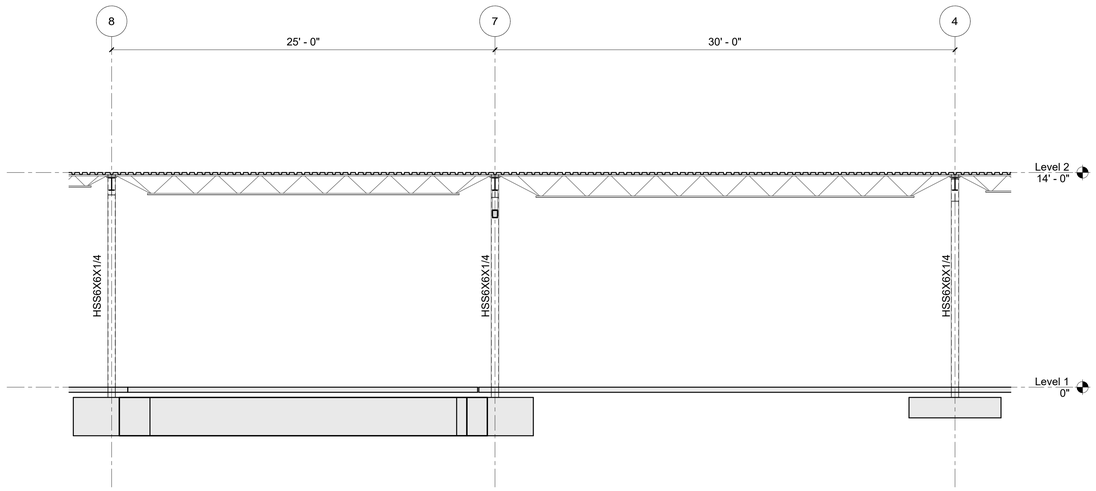
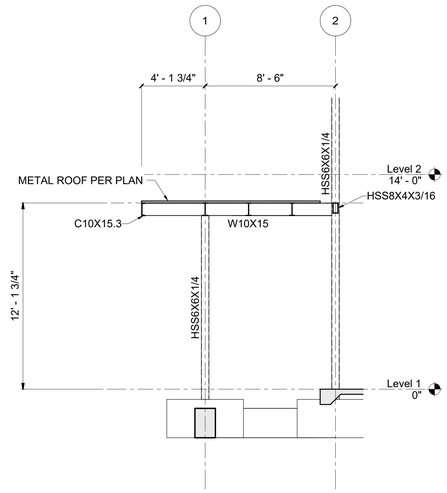


1 SECTION
1/4" = 1'-0"



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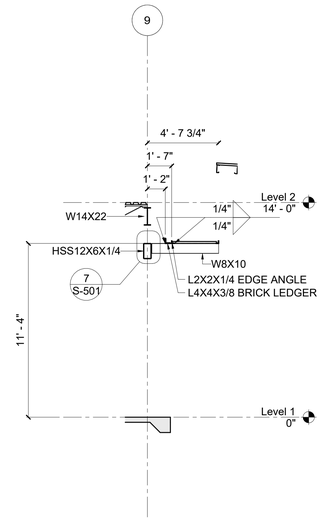

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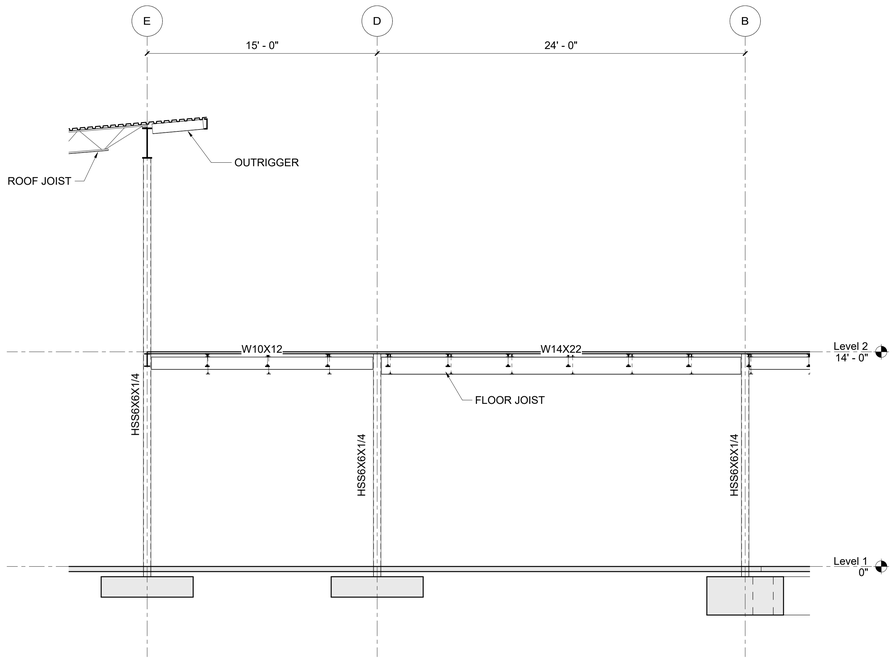

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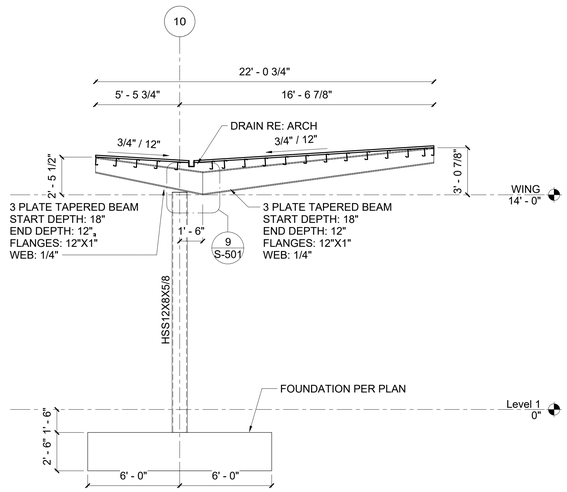
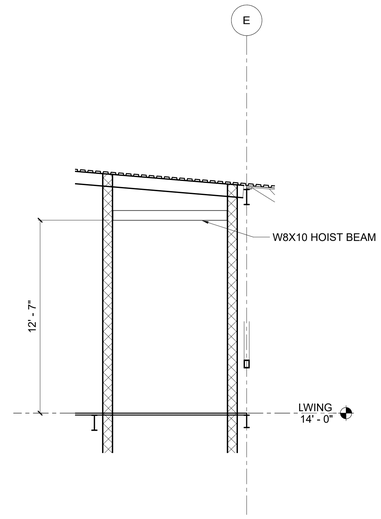
1/4" = 1'-0"



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



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

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LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

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PROJECT NO:	24KC50013
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE

BUILDING SECTIONS

S-303

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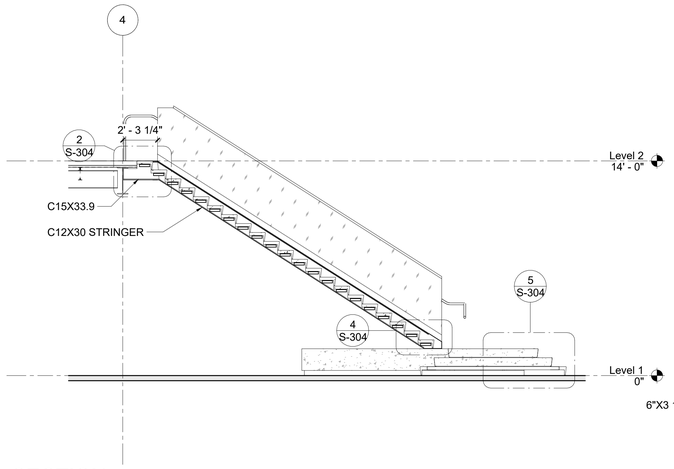
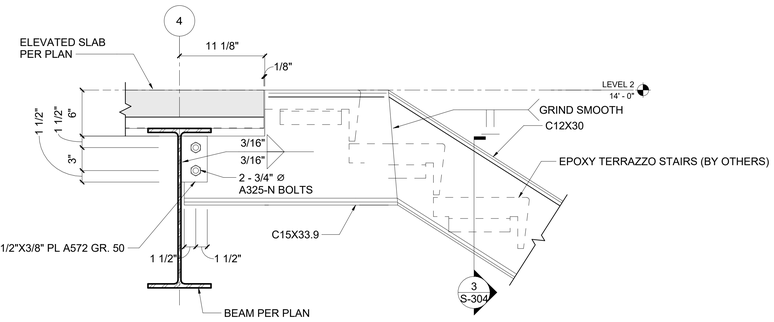
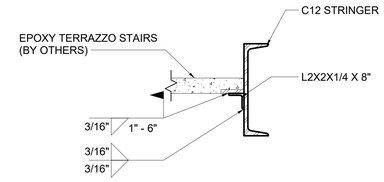


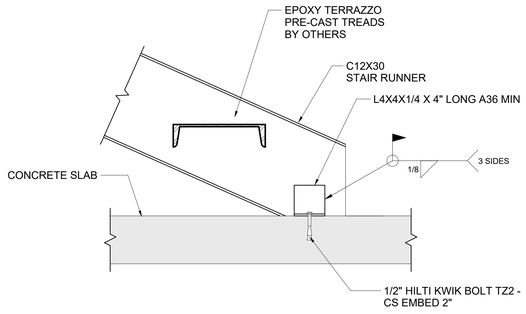
1 SECTION
1/4" = 1'-0"



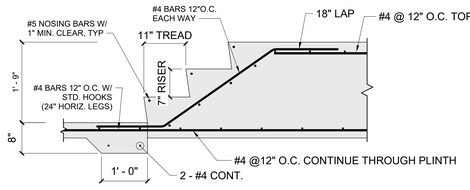
2 DETAIL
1 1/2" = 1'-0"



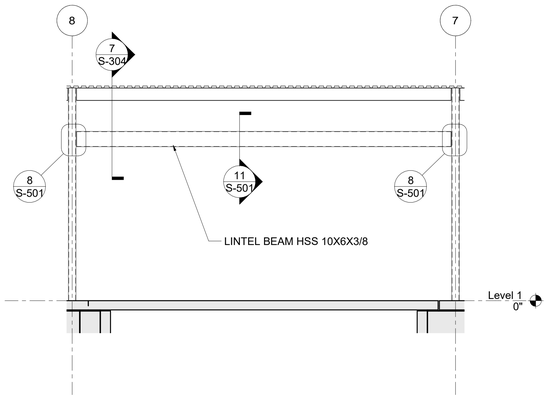
3 DETAIL
1 1/2" = 1'-0"



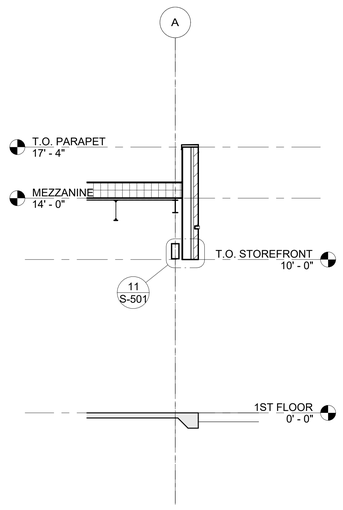
4 DETAIL
1 1/2" = 1'-0"



5 CONCRETE STAIRS AT PLINTH
3/4" = 1'-0"



6 ELEVATION AT LINTEL
1/4" = 1'-0"



7 LINTEL
1/4" = 1'-0"

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STATE OF MISSOURI
THOMAS C. CLAPHAM
NUMBER PE-2003000020
PROFESSIONAL ENGINEER
10/25/24

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LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

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CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	Approver

SHEET TITLE
BUILDING SECTIONS

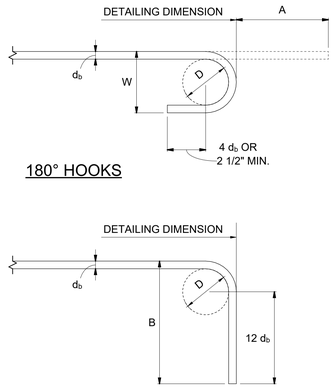
S-304

TYPICAL LAP SPLICE LENGTHS IN INCHES, PER ACI 318

BAR SIZE	LAP CLASS	f'c = 3,000 psi		f'c = 4,000 psi		f'c = 4,500 psi		f'c = 5,000 psi	
		CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2	CAT. 1	CAT. 2
#4	A	22	33	19	28	18	27	17	25
	B	28	43	25	37	24	35	22	33
#5	A	27	41	24	36	23	34	21	32
	B	36	53	31	46	30	44	28	41
#6	A	33	49	28	43	27	41	25	38
	B	43	64	37	55	36	53	33	50
#7	A	48	72	42	62	40	59	37	56
	B	62	93	54	81	51	77	48	72
#8	A	55	82	47	71	45	68	42	64
	B	71	106	61	92	58	88	55	83
#9	A	62	92	53	80	51	76	48	72
	B	80	120	69	104	66	99	62	93
#10	A	70	105	61	91	57	86	54	81
	B	91	136	79	118	74	111	71	106

NOTES:
1. FOR GRADE 60 REINFORCING STEEL BARS.
2. ALL LAP SPLICES SHALL BE CLASS B, UNLESS OTHERWISE NOTED.
3. LENGTH TO BE SELECTED BY CATEGORY OF BARS BEING SPLICED:
   - 3.1. CATEGORY 1: CLEAR COVER ≥ d_b AND CLEAR SPACING ≥ d_b, AND STIRRUPS OR TIES THROUGHOUT L_d ARE PROVIDED.
   - 3.2. CATEGORY 1: CLEAR COVER ≥ d_b AND CLEAR SPACING ≥ $2d_b$.
   - 3.3. CATEGORY 2: CLEAR COVER >< d_b OR CLEAR SPACING < $2d_b$.
4. FOR TOP BARS, MULTIPLY LAP LENGTH LISTED BY 1.30. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
5. FOR EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.20.

1 Typical Lap Splice Lengths in Inches

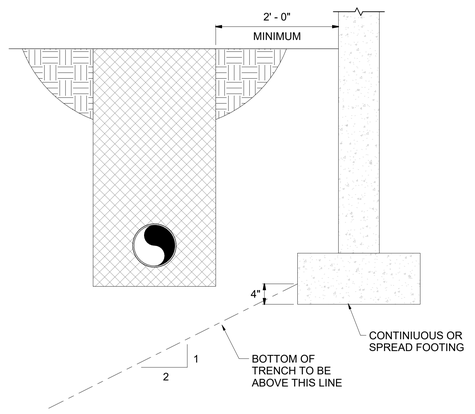


TYPICAL HOOK DIMENSIONS

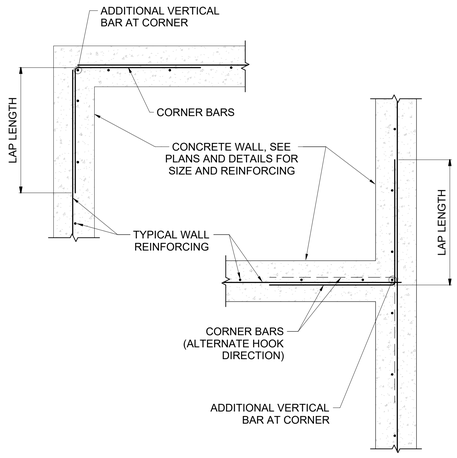
BAR SIZE	D	180° HOOKS		90° HOOKS
		A	W	B
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	24"

NOTES:
d_b = NOMINAL BAR DIAMETER
D = FINISHED INSIDE BEND DIAMETER
MINIMUM D = $6d_b$ FOR #3 TO #8 BARS.
MINIMUM D = $8d_b$ FOR #9 TO #11 BARS.
MINIMUM D = $10d_b$ FOR #14 TO #18 BARS.

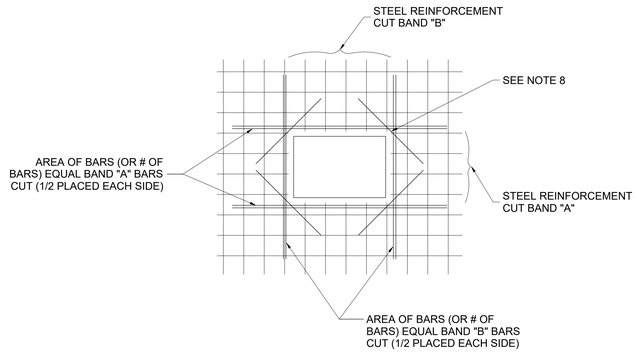
2 Typical Rebar Hooks



3 Pipe Parallel to Footing

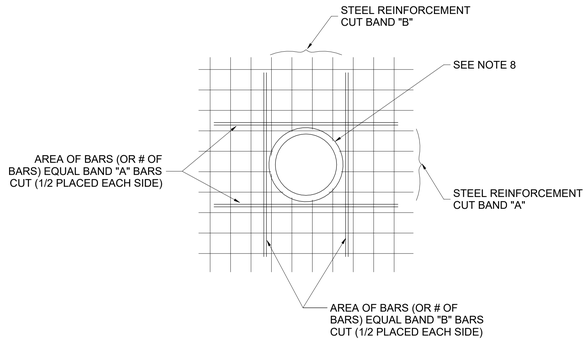


4 Corner Reinforcement for Concrete Walls - Single Mat



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS INDICATED OTHERWISE ON PLANS.
2. COORDINATE PLACEMENT OF ALL PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN TWO METALS.
3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES, INSERTS OR EMBEDMENTS.
4. PROVIDE A MINIMUM OF TWO (2) "A" BARS AND TWO (2) "B" BARS EACH SIDE OF OPENING (ONE EACH FACE).
5. SPACE BARS AT 3 BAR DIAMETERS (OR 3" MIN.) ON CENTER.
6. IF OPENING REINFORCING TERMINATES AT THE EDGE OF THE SLAB PROVIDE A STANDARD HOOK ON THE "EDGE" SIDE OF THE REINFORCING.
7. CONTINUE SPLICE REINFORCEMENT THROUGH ON SPAN LENGTH PLUS REQUIRED EMBEDMENT LENGTH.
8. PROVIDE DIAGONAL BARS ACCORDING TO THE FOLLOWING:
   - 8.1. OPENINGS UP TO 30" WIDE: (1) #5 x 4'-0" AT EACH CORNER, EACH FACE.
   - 8.2. OPENINGS GREATER THAN 30" WIDE: (1) #5 x 6'-0" AT EACH CORNER, EACH FACE.

5 Typical Opening Reinforcement - Rectangular



NOTES:
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2. COORDINATE PLACEMENT OF ALL PIPING AND REINFORCING STEEL SO THAT NO CONTACT EXISTS BETWEEN TWO METALS.
3. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES, INSERTS OR EMBEDMENTS.
4. PROVIDE A MINIMUM OF TWO (2) "A" BARS AND TWO (2) "B" BARS EACH SIDE OF OPENING (ONE EACH FACE).
5. SPACE BARS AT 3 BAR DIAMETERS (OR 3" MIN.) ON CENTER.
6. IF OPENING REINFORCING TERMINATES AT THE EDGE OF THE SLAB PROVIDE A STANDARD HOOK ON THE "EDGE" SIDE OF THE REINFORCING.
7. CONTINUE SPLICE REINFORCEMENT THROUGH ON SPAN LENGTH PLUS REQUIRED EMBEDMENT LENGTH.
8. PROVIDE HOOP BARS ACCORDING TO THE FOLLOWING:
   - 8.1. OPENINGS UP TO 30" DIAMETER: (1) #4 BAR, DIAMETER OF OPENING + 8" WITH 12" LAP, EACH FACE.
   - 8.2. OPENINGS GREATER THAN 30" DIAMETER: (1) #5 BAR, DIAMETER OF OPENING + 8" WITH 18" LAP, EACH FACE.
9. AT CIRCULAR OPENING PIPE PENETRATIONS, CONTRACTOR SHALL CAST PIPE IN SEEP RING.

6 Typical Opening Reinforcement - Circular

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DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE
STANDARD DETAILS

S-401

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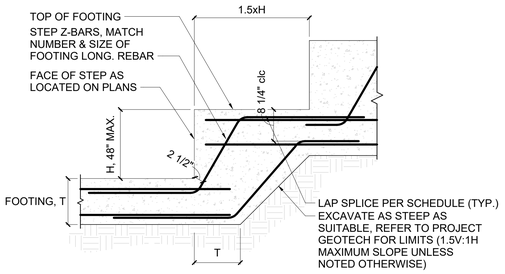
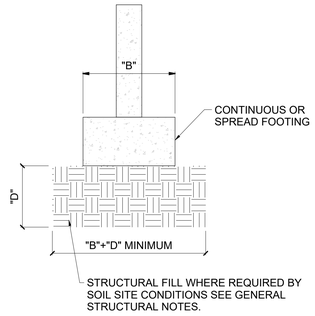
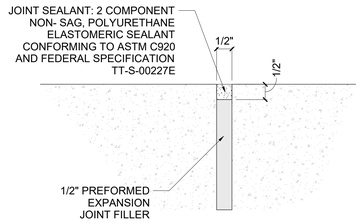


NOTE: REFER TO FOUNDATION PLANS FOR LOCATION AND ELEVATIONS
REFER TO OTHER DETAILS FOR FOOTING REINFORCING
FOOTING TRANSVERSE REINF. NOT SHOWN FOR CLARITY

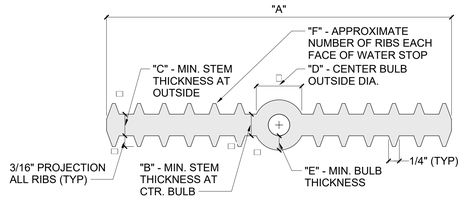
1 Typical Stepped Footing



2 Structural Fill



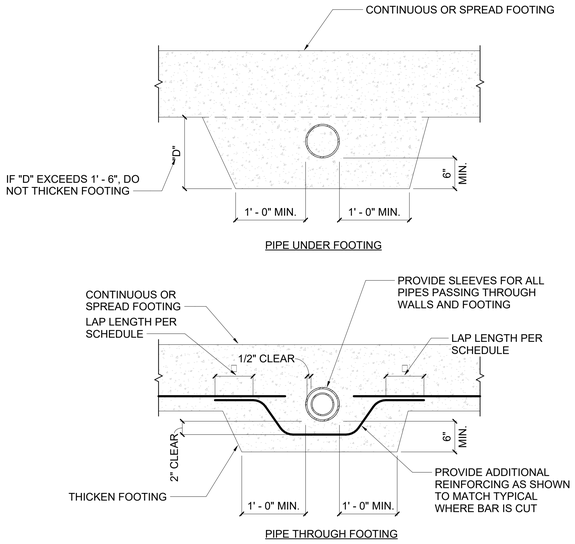
3 Expansion Joint Sealant



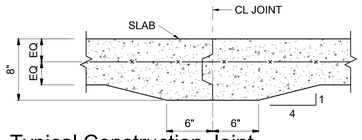
TYPICAL WATER STOP DIMENSIONS						
SIZE	A	B	C	D	E	F
4"X3/16"	4"	3/16"	3/16"	3/4"	1/4"	5
6"X3/8"	6"	3/8"	3/8"	7/8"	1/4"	6

NOTES:
1. PROVIDE PREFABRICATED INTERSECTION PIECES AND FULLY WELD ALL WATER STOP PIECES TOGETHER AT INTERSECTIONS PER MANUFACTURER'S REQUIREMENTS.
2. INSTALL WATER STOP PER MANUFACTURER'S RECOMMENDATIONS. WATER STOP SHALL BE ENVELOPED WITH CONCRETE FREE OF AIR POCKETS AND DEBRIS. PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL DEMONSTRATE THE METHOD OF PLACEMENT OF THE CONCRETE AROUND THE WATER STOP TO THE ENGINEER.
3. SEE THE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL WATER STOP REQUIREMENTS.

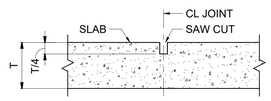
4 PVC Water Stop



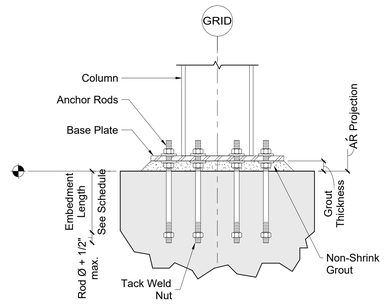
5 Pipe Perpendicular to Footing



6 Typical Construction Joint
1 1/2" = 1'-0"



7 Typical Contraction Joint
1 1/2" = 1'-0"



8 Anchor Rod Detail
1" = 1'-0"

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1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
THOMAS C. CLAPHAM
NUMBER PE-2003000020
PROFESSIONAL ENGINEER
10/25/24

LEES SUMMIT MUNICIPAL AIRPORT AUTHORITY
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	24KC50013
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE
STANDARD DETAILS

S-402

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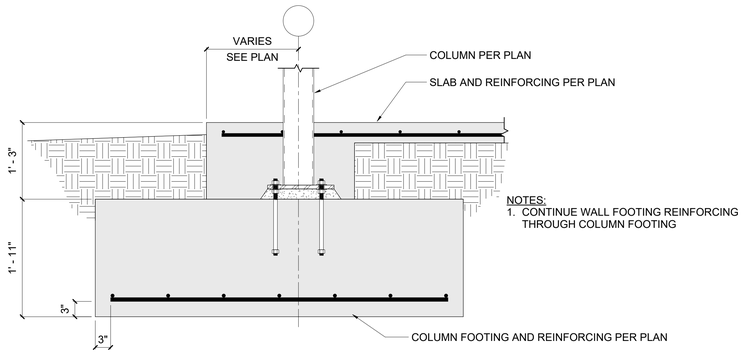
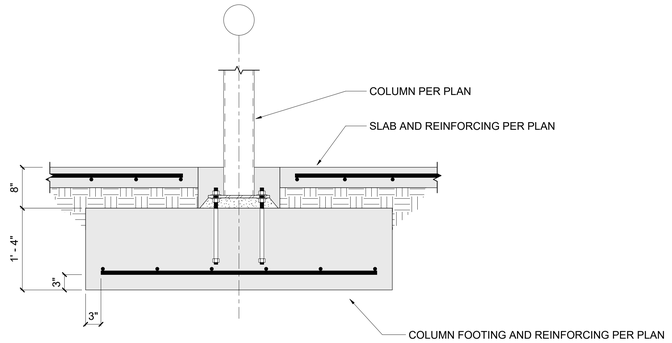
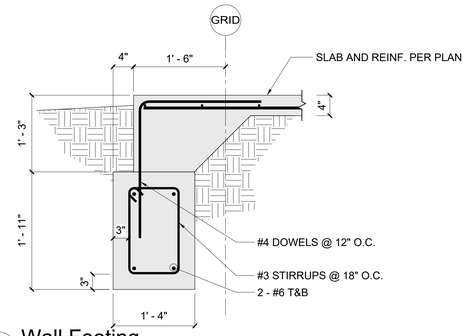


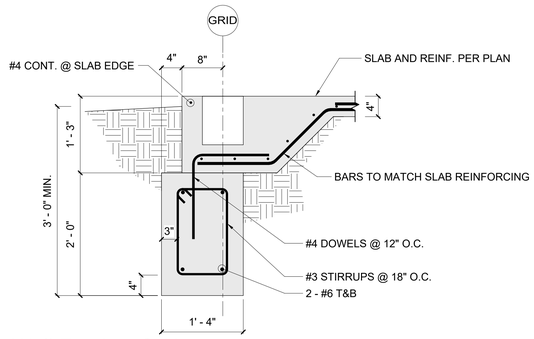
1 Exterior Column Footing
1" = 1'-0"



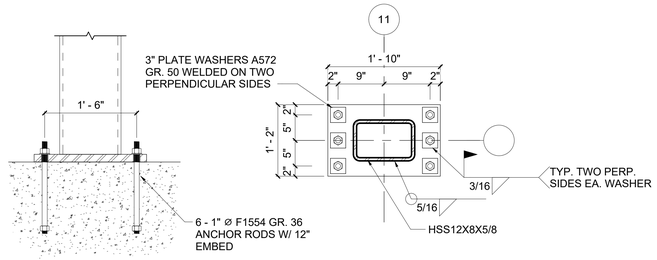
2 Interior Column Footing
1" = 1'-0"



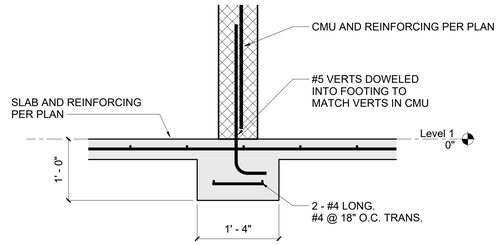
3 Wall Footing
1" = 1'-0"



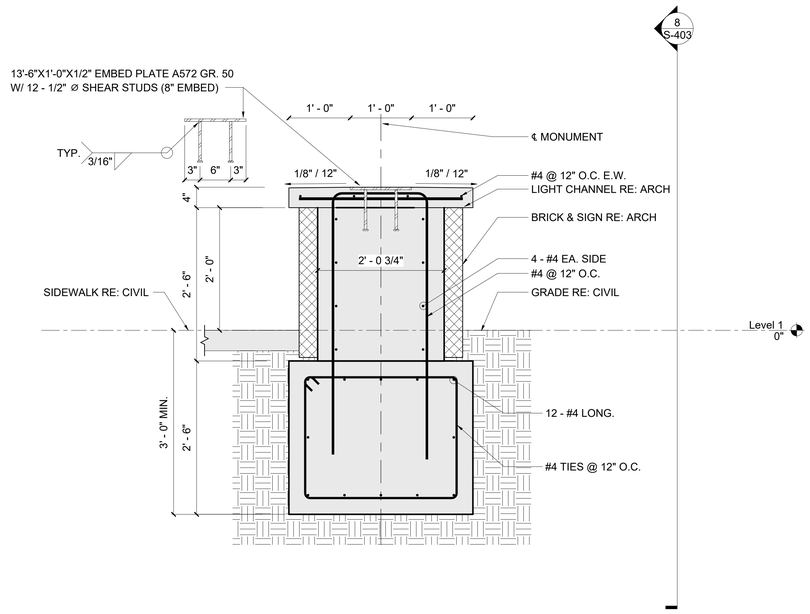
4 Wall Footing @ Heater
1" = 1'-0"



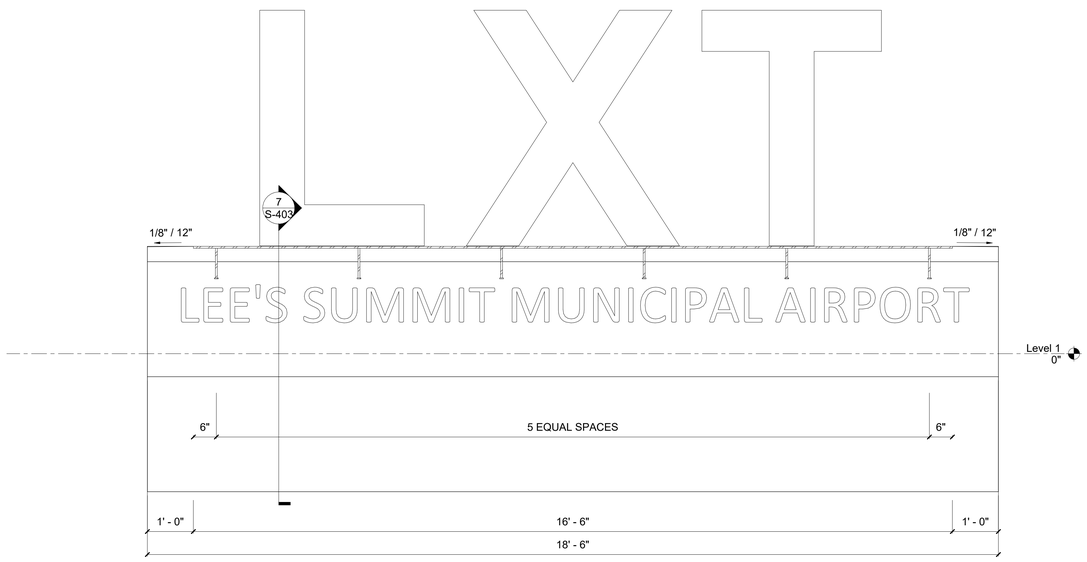
5 Anchor Rod - Parking Side Canopy
1" = 1'-0"



6 SECTION
1" = 1'-0"



7 SECTION
1" = 1'-0"



8 Section 40
3/4" = 1'-0"

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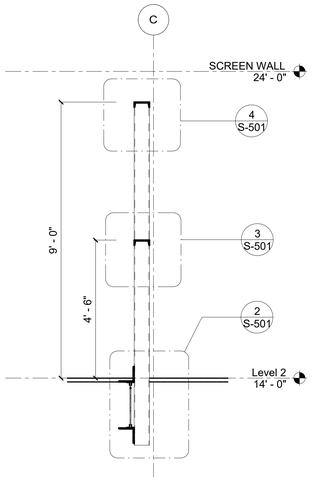
CHECKED BY:	BLL
APPROVED BY:	

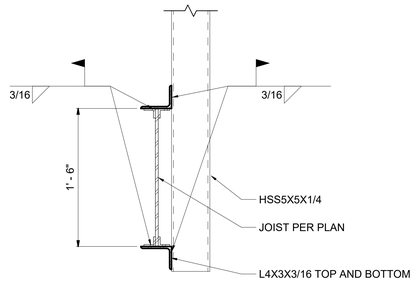
SHEET TITLE
FOUNDATION DETAILS

S-403

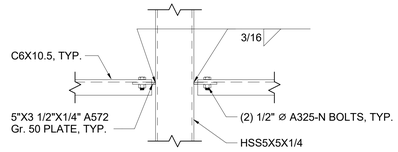
10/24/2024 4:59:14 PM



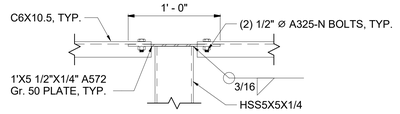
1 SECTION
1/2" = 1'-0"



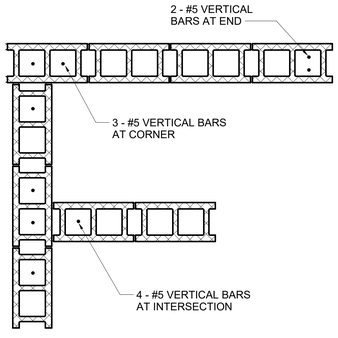
2 Screenwall Support - Joist Connection
1 1/2" = 1'-0"



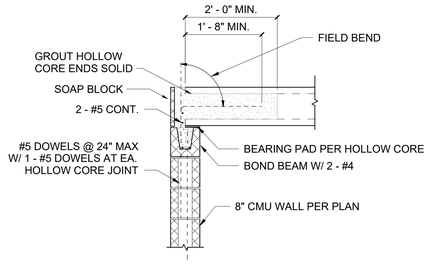
3 Screenwall Support - Mid Connection
1 1/2" = 1'-0"



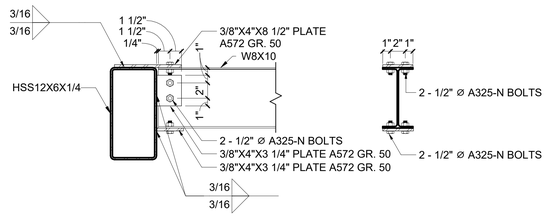
4 Screenwall Support - Top Connection
1 1/2" = 1'-0"



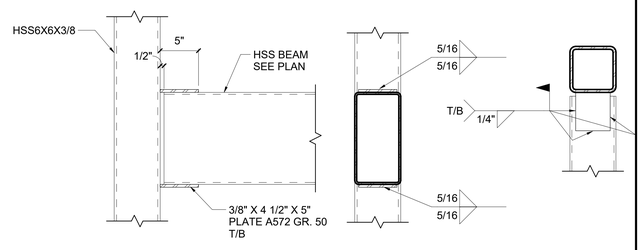
5 CMU VERTICAL BARS
1" = 1'-0"



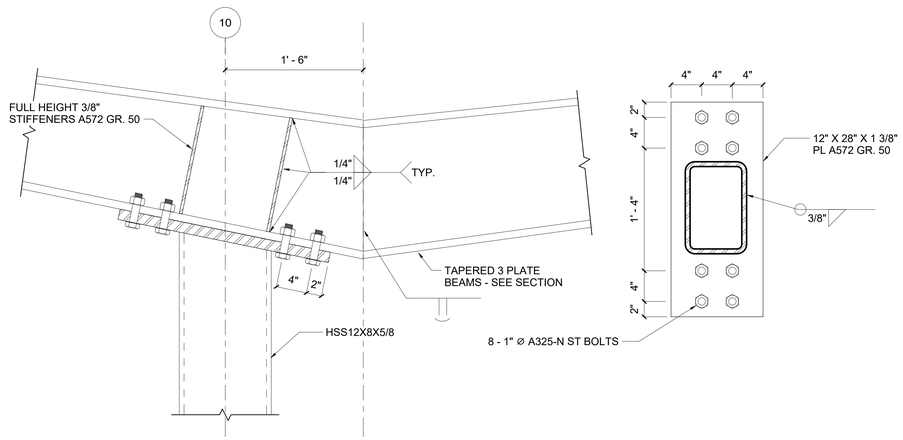
6 TYPICAL HOLLOW CORE BEARING AT CMU
3/4" = 1'-0"



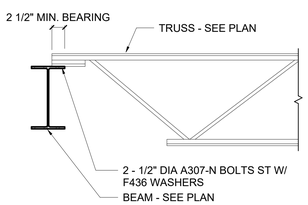
7 DETAIL
1 1/2" = 1'-0"



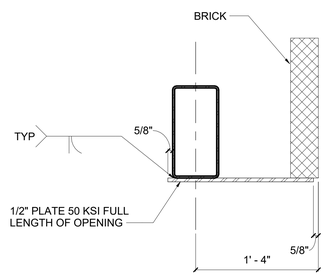
8 DETAIL
1 1/2" = 1'-0"



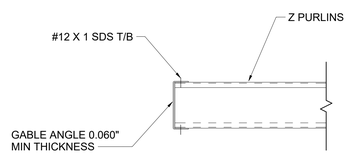
9 DETAIL
1 1/2" = 1'-0"



10 TRUSS TO BEAM
1" = 1'-0"



11 LINTEL SUPPORT
1 1/2" = 1'-0"



12 GABLE ANGLE
1 1/2" = 1'-0"

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DESIGNED BY:	JDH & BLL
DRAWN BY:	JDH
CHECKED BY:	BLL
APPROVED BY:	

SHEET TITLE

FRAMING DETAILS

S-501

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DUCTWORK

SYMBOLS

- EXISTING DUCTWORK
- DUCTWORK TO BE REMOVED
- NEW DUCTWORK SIZE AS INDICATED
- 90° ELBOW DOWN
- 90° ELBOW UP
- SOUND ATTENUATOR, SIZE AS INDICATED
- FLEXIBLE CONNECTION
- LINED DUCTWORK
- FLEXIBLE DUCTWORK
- RECTANGULAR ECCENTRIC DUCT TRANSITION
- RECTANGULAR CONCENTRIC DUCT TRANSITION
- SQUARE TO ROUND DUCT TRANSITION
- SUPPLY AIR
- RETURN AIR
- TURNING VANES
- CD CONTROL DAMPER
- BD BACKDRAFT DAMPER
- FD FIRE DAMPER
- F/S COMBINATION FIRE/SMOKE DAMPER
- MV MANUAL VOLUME DAMPER
- M MOTOR OPERATED DAMPER
- ? DEVICE
- ? WALL MOUNTED DEVICE
- ? DUCT MOUNTED SMOKE DETECTOR
- AD ACCESS DOOR, SIZE AS INDICATED
- DEVICE TYPE / INLET SIZE / FLOW — SUPPLY/EXHAUST AIR DEVICE DESIGNATION
- DEVICE TYPE / DEVICE SIZE — RETURN AIR DEVICE DESIGNATION
- ? THERMOSTAT

GENERAL

- ## NOTE DESIGNATION - DEMOLITION (ALL)
- ## NOTE DESIGNATION - MECHANICAL NEW WORK
- ## NOTE DESIGNATION - ELECTRICAL NEW WORK
- ## NOTE DESIGNATION - PIPING/PLUMBING NEW WORK
- ## REVISION FROM ORIGINAL DOCUMENT
- EQUIPMENT LOCATION &OR NUMBER — ?? / ## — EQUIPMENT TAG DESIGNATION
- DRAWING NUMBER / SHEET NUMBER — # / ## — SECTION CUT DESIGNATION
- DRAWING NUMBER / SHEET NUMBER — RE: 1/M2 — REFERENCE DESIGNATION
- CONNECT TO EXISTING
- SPEC1 SPEC2 — PIPE SPECIFICATION CHANGE
- DOUBLE CONTAINMENT PIPE
- INSULATED EQUIPMENT # = THICKNESS XX = TYPE
- INSULATED PIPE # = THICKNESS XX = TYPE
- # = THICKNESS XX = TYPE — INSULATED PIPE WITH ELECTRIC HEAT TRACING
- PIPE SLEEVE/PIPE PENETRATION THRU WALL
- CONNECT TO EXISTING, OPTIONAL NUMBER DESIGNATION
- FLOW ARROW
- SLOPE — DIRECTION OF DOWNWARD SLOPE
- GPM OR CFM — LIQUID OR AIR FLOW RATE

LINE TYPES

- MAIN PROCESS OR UTILITY LINE
- FUTURE LINEWORK
- ASSEMBLY BOUNDARY
- SKID OR PACKAGE BOUNDARY
- SOFTWARE
- DEMOLITION
- MATCHLINE

PIPING/PLUMBING

VALVES

- ANGLE VALVE
- BACKFLOW PREVENTER
- BALL VALVE
- BALANCING VALVE (2-1/2" & SMALLER)
- BALANCING VALVE (3" & LARGER)
- BUTTERFLY VALVE
- CHECK VALVE (2-1/2" & SMALLER)
- CHECK VALVE (3" & LARGER)
- CONTROL VALVE (THREE-WAY, PNEUMATIC)
- CONTROL VALVE (TWO-WAY, PNEUMATIC)
- CONTROL VALVE (TWO-WAY, MOTORIZED)
- CONTROL VALVE (THREE-WAY, MOTORIZED)
- FLEXIBLE CONNECTION (BELLOWS TYPE)
- FLEXIBLE CONNECTION (CONVOLUTE TYPE)
- FLEXIBLE CONNECTION (BRAIDED SS TYPE)
- GAS COCK
- GATE VALVE (2-1/2" & SMALLER)
- GATE VALVE (3" & LARGER)
- GLOBE VALVE (2-1/2" & SMALLER)
- GLOBE VALVE (3" & LARGER)
- PLUG VALVE
- PRESSURE REDUCING VALVE (WATER)
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- STRAINER (2-1/2" & SMALLER)
- STRAINER (3" & LARGER)
- TRIPLE DUTY VALVE
- STEAM TRAP (INVERTED BUCKET)
- STEAM TRAP (FLOAT & THERMOSTATIC)
- PRESSURE REDUCING VALVE (STEAM)
- BALANCING VALVE
- TRIPLE DUTY BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DIAPHRAGM VALVE
- GATE VALVE
- GAUGE COCK
- GLOBE VALVE
- NEEDLE VALVE
- PLUG VALVE
- 3-WAY VALVE
- PRESSURE/TEMPERATURE RELIEF VALVE
- ANGLE VALVE
- RUPTURE DISC FOR PRESSURE/VACUUM RELIEF
- BFP — BACKFLOW PREVENTER WITH DRAIN
- AV — AUTOMATIC AIR VENT
- MV — MANUAL AIR VENT
- VB — VACUUM BREAKER

CONTROL VALVES

- PRESSURE REGULATOR
- PRESSURE REDUCING VALVE
- S — SOLENOID ACTUATOR
- M — MOTORIZED ACTUATOR
- PE — PNEUMATIC OPERATED ACTUATOR (CYLINDER/PISTON TYPE)
- PE — PNEUMATIC OPERATED ACTUATOR (DIAPHRAGM TYPE)
- DIAPHRAGM VALVE PNEUMATIC OPERATED ACTUATOR
- WYE PNEUMATIC OPERATED ACTUATOR (DIAPHRAGM TYPE)
- S — PANEL MOUNTED SOLENOID VALVE
- TP — REFER TO INSTRUMENT LOGIC SYMBOLS FOR TRANSDUCER TYPE

FITTINGS & ACCESSORIES

- FLANGED CONNECTION/BLIND FLANGE
- FLUSH SANITARY FITTING
- PIPE CAP
- PIPE DROP/PIPE RISE
- BOTTOM OUTLET TEE
- TOP OUTLET TEE
- UNION
- SANITARY CLAMP
- HIGH PRESSURE SANITARY CLAMP
- SCREWED CONNECTION
- RESTRICTIVE ORIFICE PLATE
- QUICK CONNECT/DISCONNECT
- COMPRESSION FITTING
- INGOLD FITTING
- BEVEL SEAT FITTING
- HOSE BARB FITTING
- FLEXIBLE CONNECTOR
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- SPRAY BALL
- SIGHT GLASS
- STRAINER ("Y" TYPE)
- STRAINER ("Y" TYPE) WITH BLOWDOWN
- MUFFLER/SILENCER
- TI 000 — THERMOMETER
- SANITARY THERMOWELL
- XX 000 — LOCALLY MOUNTED PRESSURE (PI) OR TEMPERATURE (TI) GAUGE
- SANITARY STEAM TRAP
- THERMOSTATIC STEAM TRAP
- FLOAT & THERMOSTATIC STEAM TRAP
- INVERTED BUCKET STEAM TRAP
- PRESSURE POWERED PUMP
- FILTER

ELECTRICAL

WIRING

- GROUND / NEUTRAL / HOT / "LP1" 2 — HOMERUN TO PANELBOARD. 3/4" CONDUIT. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. "LP1" INDICATES PANEL DESIGNATION; 2 INDICATES PANEL CIRCUIT. TICK MARKS INDICATE #12 WIRING.
- "LP1" 2,4 OR 2/4 — 2,4 INDICATES TWO SEPARATE CIRCUITS. 2/4 INDICATES A SINGLE 2-POLE CIRCUIT. HOMERUN WITHOUT TICK MARKS INDICATES (2)#12 & (1)#12G IN 0.75"C.
- CONCEALED CONDUIT (BELOW FLOOR). CONTINUOUS LINE IS INDICATIVE OF CONDUIT TO BE RUN OVERHEAD.
- "J" HOOK RACEWAY
- CABLE TRAY AS DESCRIBED ON DRAWINGS
- CONDUIT UP
- CONDUIT DOWN

POWER

- 60/3 — NON-FUSED DISCONNECT SWITCH, ### INDICATES AMPACITY AND # OF POLES, PHYSICAL SIZE AS SHOWN ON PLAN.
- 60/40/3 — FUSED DISCONNECT SWITCH, 60/40/3 INDICATES FRAME AMPACITY/FUSE AMPACITY/# POLES, PHYSICAL SIZE AS SHOWN ON PLAN.
- 1 — MAGNETIC MOTOR STARTER, 1 INDICATES NEMA STARTER RATING.
- 1 — COMBINATION DISCONNECT SWITCH AND MOTOR STARTER, 1 INDICATES NEMA STARTER RATING.
- DUPLEX GROUNDING TYPE RECEPTACLE OUTLET - RATED 20-AMP.
- DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE OUTLET
- DEVICE MOUNTED 6" ABOVE COUNTER (TYPICAL SYMBOL FOR FOR ALL RECEPTACLE SYMBOLS)
- WP — DUPLEX GROUNDING TYPE RECEPTACLE OUTLET WITH WEATHERPROOF COVER.
- GFCI — DUPLEX GROUND FAULT INTERRUPTER CIRCUIT TYPE RECEPTACLE OUTLET
- C — DUPLEX RECEPTACLE OUTLET - "C" INDICATES CEILING MOUNTED
- TV — DUPLEX RECEPTACLE OUTLET FOR TELEVISION. MOUNTING HEIGHT AS NOTED ON PLANS.
- SIMPLEX 125-V., 2-POLE, 3-WIRE RECEPTACLE OUTLET - WALL OR FLOOR MOUNTED
- XP — SAME AS ABOVE - EXPLOSION PROOF
- SPECIAL-PURPOSE RECEPTACLE, AMPERAGE AND VOLTAGE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH EQUIPMENT MANUFACTURER.
- SURFACE RACEWAY WITH OUTLETS AND MOUNTING AS INDICATED ON PLANS.
- JUNCTION BOX.
- J — FLOOR OR CEILING MOUNTED JUNCTION BOX.
- B — OUTLET BOX WITH BLANK COVER PLATE
- T — THERMOSTAT ROUGH-IN JUNCTION BOX
- MOTOR
- NEW PANELBOARD
- EXISTING PANELBOARD
- NEW TRANSFORMER, SIZE AS INDICATED ON PLANS.
- EXISTING TRANSFORMER. SIZE AS INDICATED ON PLANS.
- P / T / D — POKE THROUGH DEVICE, "P" INDICATES POWER, "D" INDICATES DATA, "T" INDICATES TELEPHONE. INSTALL AS DESCRIBED ON PLANS.
- VFD — VARIABLE FREQUENCY DRIVE
- C — WALL MOUNTED CLOCK

LIGHTING

- A — 2'x4' FLUORESCENT LIGHTING FIXTURE, 'A' INDICATES FIXTURE TYPE
- EMERGENCY FIXTURE - TYPICAL OF ALL CROSSHATCHED FIXTURES
- A — 1'x4' FLUORESCENT LIGHTING FIXTURE, 'A' INDICATES FIXTURE TYPE
- A — 2'x2' FLUORESCENT LIGHTING FIXTURE, 'A' INDICATES FIXTURE TYPE
- A — 6"x48" FLUORESCENT LINEAR
- A — RECESSED DOWNLIGHT
- A — WALL WASH FIXTURE
- OR — WALL MOUNTED FIXTURE
- A — FLUORESCENT STRIP LIGHT FIXTURE, 'A' INDICATES FIXTURE TYPE
- OR — PENDANT FIXTURE, CHAIN OR STEM MOUNTED
- EMERGENCY BUGEYE FIXTURE
- CEILING MOUNTED EXIT LIGHT (EMERGENCY POWER)
- WALL MOUNTED EXIT LIGHT (EMERGENCY POWER)

FIRE DETECTION/PROTECTION

- MH — MAGNETIC DOOR HOLDER
- ? — SMOKE DETECTOR (ION, P, EL)
- D — DUCT SMOKE DETECTOR
- F — FIRE ALARM PULL STATION
- FA — FIRE AUDIBLE DEVICE
- FAV — FIRE AUDIBLE/VISUAL COMBINATION
- 75 — CANDELA NUMBER DESIGNATION (TYP. FOR ALL STROBES)
- FA 15 — FIRE ALARM VISUAL DEVICE
- 15 — CEILING MOUNTED STROBE
- H — CEILING MOUNTED HORN
- FACP — FIRE ALARM CONTROL PANEL
- RAP — REMOTE ANNUNCIATOR PANEL

SPECIAL SYSTEMS

- WALL MOUNTED TELEPHONE OUTLET
- COMBINATION TELEPHONE/DATA DEVICE
- DATA JACK
- DEVICE MOUNTED 6" ABOVE COUNTER
- WAP — WIRELESS ACCESS POINT
- TELEVISION OUTLET - COAX JACK AND DUPLEX RECEPTACLE
- S — CEILING MOUNTED SPEAKER
- S — WALL MOUNTED SPEAKER
- J — INTERCOM STATION. "M" INDICATES MASTER.
- TV — COAXIAL TV JACK WITH J-BOX, FACEPLATE AND CABLING
- PJ — CEILING MOUNTED PROJECTOR WITH DUPLEX RECEPTACLE, A/V J-BOX, WITH FACEPLATE

SPECIAL SYSTEMS INSTALLATION REQUIREMENTS

1. WALL MOUNTED TELEPHONE OUTLET, TELEPHONE OUTLET FURNISHED AND INSTALLED BY OWNER. FOR WALL INSTALLATION, PROVIDE AND INSTALL A FLUSH DEVICE BOX, AND PULLSTRING IN WALL STUD SPACE TO ABOVE CEILING. MOUNT DEVICE BOX CENTERLINE AT ELEVATION NOTED ON THE PLANS.

ONE-LINE/DETAIL

- MOLDED CASE OR INSULTAED CASE CIRCUIT BREAKER
- SPD — SURGE PROTECTIVE DEVICE
- INTEGRAL DISCONNECT SWITCH
- FUSE
- DISTRIBUTION TRANSFORMER
- SHIELDED DISTRIBUTION TRANSFORMER
- VFD
- COMBINATION MOTOR STARTER/DISCONNECT
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER DISCONNECT SWITCH
- MOTOR STARTER
- MOTOR
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- GROUND
- DELTA
- WYE

SECURITY

- CR — CARD READER
- KP — KEYPAD
- DC — DOOR CONTACT
- ML — MAGNETIC LOCK
- ES — ELECTRIC STRIKE
- ER — EXIT REQUEST
- BM — BIOMETRIC READER
- CEILING MOUNTED DOME STYLE SECURITY CAMERA
- CEILING MOUNTED AISLE STYLE SECURITY CAMERA
- MOTION SENSOR
- M — EMERGENCY CALL STATION
- CI — COMBINATION CAMERA / INTERCOM

SWITCHES

- S — SINGLE-POLE, SINGLE-THROW WALL SWITCH
- S_2 — DOUBLE-POLE, SINGLE-THROW WALL SWITCH
- S_3 — THREE-WAY WALL SWITCH
- S_4 — FOUR-WAY WALL SWITCH
- S_P — SINGLE-POLE SWITCH WITH PILOT LIGHT
- S_S — LOW VOLTAGE SCENE SWITCH
- S_{D1} — LOW VOLTAGE 1 BUTTON DIMMING SWITCH
- S_{L1} — LOW VOLTAGE 1 BUTTON SWITCH
- S_{LX} — LOW VOLTAGE SWITCH WHERE X INDICATES # OF BUTTONS
- S_M — MOTOR SWITCH WITH THERMAL OVERLOAD PROTECTION
- S_K — SINGLE-POLE KEYED SWITCH
- S_{PROJ} — PROJECTOR SCREEN RAISE/LOWER SWITCH
- S_{OC} — OCCUPANCY SENSOR SWITCH
- PC — PHOTO CELL
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- RC — LIGHTING RELAY ROOM CONTROLLER
- RC_D — DIMMING LIGHTING RELAY ROOM CONTROLLER

ANNOTATION

BUILDING SYSTEMS

- CA — COMPRESSED AIR PIPING
- CHWS — CHILLED WATER SUPPLY PIPING
- CHWR — CHILLED WATER RETURN PIPING
- CWFT — CONDENSER WATER FROM TOWER
- CWTT — CONDENSER WATER TO TOWER
- DR — CONDENSATE DRAIN PIPING
- D — DRAIN
- PCHWS — PROCESS CHILLED WATER SUPPLY
- PCHWR — PROCESS CHILLED WATER RETURN
- GCHWS — GLYCOL CHILLLED WATER SUPPLY
- GCHWR — GLYCOL CHILLLED WATER RETURN
- HPS — HIGH PRESSURE STEAM
- HPC — HIGH PRESSURE CONDENSATE
- HHWS — HEATING HOT WATER SUPPLY
- HHWR — HEATING HOT WATER RETURN
- HPS — HIGH PRESSURE STEAM
- HPC — HIGH PRESSURE CONDENSATE
- LPS — LOW PRESSURE STEAM
- LPC — LOW PRESSURE CONDENSATE
- MPS — MEDIUM PRESSURE STEAM
- MPC — MEDIUM PRESSURE CONDENSATE
- NG — NATURAL GAS
- PC — PUMPED CONDENSATE
- RV — REFRIGERANT VENT

PLUMBING

- CW — COLD WATER PIPING
- ICW — INDUSTRIAL COLD WATER
- IW — INDIRECT WASTE OR IRRIGATION WATER
- NPW — NON-POTABLE WATER
- HW — HOT WATER PIPING
- HWC — HOT WATER CIRCULATING PIPING
- SFT — SOFT WATER
- SW — STORM WATER
- TWS — TEMPERED WATER SUPPLY
- TWR — TEMPERED WATER RETURN
- VAC — VACUUM
- V — VENT
- W — WASTE

PROCESS

- AC — ACETYLENE
- AW — ACID WASTE
- AR — ARGON
- CIPS — CLEAN IN PLACE SUPPLY PIPING
- CIPR — CLEAN IN PLACE RETURN PIPING
- CS — CLEAN STEAM
- STM(F) — FILTERED STEAM
- DI — DE-IONIZED WATER
- DS — DISTILLED WATER
- GN — GASEOUS NITROGEN
- HE — HELIUM
- HY — HYDROGEN
- LN — LIQUID NITROGEN

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

CORY WILSON — STATE OF MISSOURI — NUMBER PE-2010001078 — PROFESSIONAL ENGINEER
11.26.2024

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

MEP SYMBOLS LEGEND

ME000

SHEET 77 OF 102

GENERAL ABBREVIATIONS

GENERAL ABBREVIATIONS:

A/C	AIR CONDITIONING(ER)
ADDN	ADDITION OR ADDITIONAL
ADJ	ADJUSTABLE
ADJT	ADJACENT
ADMIN	ADMINISTRATION
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMB	AMBIENT
APPROX	APPROXIMATE
AUTO	AUTOMATIC
BHP	BREAK HORSE POWER
BLDG	BUILDING
BLK	BLOCK
BMS	BUILDING MANAGEMENT SYSTEM
BOF	BOTTOM OF FOOTING
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIRC	CIRCULATING
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONFIG	CONFIGURATION
CONST	CONSTRUCTION
CORR	CORRIDOR
CT	CURRENT TRANSFORMER
CU	COPPER
CU	CONDENSING UNTI
CUH	CABINET UNIT HEATER
CW	COLD WATER
DB	DRY BULB
DBA	DECIBEL A-SOUND LEVELS
DD	DIRECT DIGITAL
DEG	DEGREE
DEPT	DEPARTMENT
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISC	DISCONNECT
DISCH	DISCHARGE
DISTR	DISTRIBUTION
DN	DOWN
DTL	DETAIL
DWG	DRAWING
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EEW	EMERGENCY EYEWASH
EWWS	EMERGENCY EYEWASH/SHOWER
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EST	ESTIMATE
EWT	ENTERING WATER TEMPERATURE
EXPL	EXPLOSION
EXT	EXTERIOR
F	FAHRENHEIT
FA	FRESH AIR
FD	FIRE DAMPER
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FDC	FIRE DEPARTMENT CONNECTION
FIG	FIGURE
FL	FLOOR
FM	FACTORY MUTUAL
FPM	FEET PER MINUTE
FT	FEET (FOOT)
FTG	FOOTING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GOVT	GOVERNMENT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HOA	HANDS-OFF-AUTOMATIC
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
HX	HEAT EXCHANGER
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IMC	INNTERNATIONAL MECHANICAL CODE
IN	INCH
INC	INCLUDE(ING)
IPC	INTERNATIONAL PLUMBING CODE
JAN	JANITOR
JST	JOIST
KVA	KILOVOLT AMPERES
KW	KILOWATT
KWH	KILOWATT-HOUR
LAB	LABORATORY
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LBS	POUNDS
LF	LINEAR FOOT (FEET)
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIUM
MBH	THOUSAND BTU PER HOUR
MBTUH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MFRG	MANUFACTURING
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NON APPLICABLE
NC	NORMALLY CLOSED
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECT MANUFACTURER'S ASSN
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OS&Y	OUTSIDE SCREW & YOKE
P/T PORT	PRESSURE/TEMPERATURE TEST
PCF	POUNDS PER CUBIC FOOT
PF	PRESSURE DROP
PERF	PERFORATED
PERP	PERPENDICULAR
PH	PHASE
PIC CONTROL	PRESSURE INDEPENDENT
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNEU	PNEUMATIC
PREFAB	PREFABRICATED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
RH	RELATIVE HUMIDITY
RHP	RADIANT HEATING PANEL
RM	ROOM
RPM	ROVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SAN	SANITARY WASTE
SCW	SOFT COLD WATER
SD	SMOKE DAMPER
SD	SMOKE DETECTOR
SECT	SECTION
SENS	SENSIBLE
SF	SQUARE FOOT (FEET)
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STOR	STORAGE
SWP	STEAM WORKING PRESSURE
T	THERMOSTAT
TA	TRANSFER AIR
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPORARY
TEMP	TEMPERATURE
THK	THICK(NESS)
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
V	VOLT
VAV	VARIABLE AIR VOLUME
VCT	VINYL COMPOSITION TILE
VD	VOLUME DAMPER - MANUAL
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WIDE, WIDTH
W	WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WT	WEIGHT
XFMR	TRANSFORMER
YH	YARD HYDRANT
&	AND
@	AT
i.e.	THAT IS
#	NUMBER

ELECTRICAL ABBREVIATIONS:

A OR AMP	AMPER(S)
AC	ALTERNATING CURRENT
A.F.F.	ABOVE FINIS
APPROX.	APPROXIMATELY
ARCH.	ARCHITECT
AWG	AMERICAN WIRE GAUGE
BKR.	BREAKER
C	CONDUIT
COMM.	COMMUNICATIONS
D	DEEP
DISC	DISCONNECT SWITCH
DWGS.	DRAWINGS
ELECT.	ELECTRICAL
EMCS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EQUIP.	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FLEX	FLEXIBLE METALLIC CONDUIT
GA	GAUGE
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HZ	HERTZ
INC	INCANDESCENT
ION	IONIZATION SMOKE DETECTOR
JB	JUNCTION BOX (J-BOX)
MCC	MOTOR CONTROL CENTER
N/A	NOT APPLICABLE
N.A.	NON-FUSIBLE
NL	NIGHT LIGHT
PC	PLENUM CABLE
PH	PHASE
P	PHOTOELECTRIC SMOKE DETECTOR
PNL	PANEL
PVC	POLYVINYL CHLORIDE
RM.	ROOM
SYMM.	SYMMETRICAL
SYS.	SYSTEM
TV	TELEVISION
TYP	TYPICAL
V	VOLT
VA	VOLT AMPS
W	WATTS
WP	WEATHER PROOF
XFMR.	TRANSFORMER
XP	EXPLOSION PROOF
Ø	PHASE
RE: 3/E1	RE: = REFER TO 3 = DETAIL NUMBER E1 = SHEET NUMBER

GENERAL NOTES

ELECTRICAL GENERAL NOTES

1. ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH 2018 NATIONAL ELECTRIC CODE (NEC).
2. INSTALL ALL WIRING IN RACEWAYS. OPEN WIRING IS PROHIBITED.
3. WHERE SURFACE WIRING IS REQUIRED, SURFACE MOUNTED RACEWAY (WIREMOLD OR APPROVED EQUAL) SHALL BE USED AND PAINTED TO MATCH ADJACENT SURFACES (UNLESS SPECIFIED COLOR WAS PROVIDED). COORDINATE ALL SURFACE MOUNTED CONDUIT AND RACEWAY ROUTING WITH OWNER AND ENGINEER.
4. ALL RACEWAYS SHALL CONTAIN AN EQUIPMENT GROUNDING CONDUCTOR.
5. PROVIDE ALL MOTORS WITH A LOCAL DISCONNECT SWITCH (UNFUSED UNLESS OTHERWISE NOTED) LOCATED AT THE MOTOR OR A MAXIMUM OF 5FT AWAY, WITHIN SIGHT.
6. NO MORE THAN SIX RECEPTACLES SHALL BE INSTALLED ON A SINGLE BRANCH CIRCUIT FOR GENERAL USE. GFCI RECEPTACLES SHALL NOT SERVE OTHER RECEPTACLES FROM THEIR LOADSIDE TERMINALS.
7. TELECOMMUNICATION OUTLET BOXES SHALL BE MINIMUM SIZE AS NEC STANDARD 6"x6"x2.5" THAT COULD CONTAIN DUAL DUPLEX ELECTRICAL OUTLETS, RECESSED TO ALLOW EMT OR FLEXIBLE CONDUIT TO TERMINATE ON THEM.
8. WALL MOUNTED JUNCTION BOXES SHALL BE EQUIPPED WITH FULL COVERED STAINLESS STEEL WALL FACEPLATES THAT SHALL COVER THE ENTIRE BOX WITHOUT TRIM RINGS ADDED.
9. TELECOM J-BOXES SHALL EMPLOY TWO EACH MODULAR CAT 6 (OR BETTER) RJ-45 JACKS FOR VOICE/DATA, VERIFY STANDARD CABLING WITH OWNER PRIOR TO BID.
10. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, SIZES, AND ELEVATIONS OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS THAT MAY IMPACT IMPLEMENTATION OF THIS WORK PRIOR TO MAKING BIDS.
11. CONTRACTOR SHALL COORDINATE AND EXPEDITE ALL WORK WITH OTHER TRADES AND OWNER.
12. ALL OVERCURRENT PROTECTIVE DEVICES INSTALLED UNDER THIS CONTRACT SHALL MEET THE INTERRUPTING CAPABILITY OF THE SCHEDULES. "SERIES RATING" SHALL BE ALLOWED.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ARC FLASH STUDY AND LABELS PER NEC.
14. ALL WIRING TO BE CONTINUOUS WITHOUT SPLICES UNLESS OTHERWISE NOTED.
15. NO POWER AND CONTROL WIRING SHALL BE RUN IN SAME CONDUIT.
16. FINAL ROUTING OF CONDUITS IS TO BE DETERMINED BY THE CONTRACTOR. INFORM ENGINEER OF RECORD OF ANY MAJOR DISCREPANCY PRIOR TO PROCEEDING WITH INSTALLATION.
17. PROVIDE TYPED PANEL SCHEDULES POLE AND LOAD SERVED.
18. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL VISIT THE SITE AND AREA OF WORK TO FAMILIARIZE HIM OR HERSELF WITH THE EXISTING CONDITIONS.

LIGHTING GENERAL NOTES

1. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
2. COORDINATE ALL SCHEDULING, ELEVATIONS, SIZES, QUANTITIES, AND ROUTING OF WORK WITH OWNER AND OTHER TRADES.
3. FIELD VERIFY SIZE, LOCATION, ELEVATION AND QUANTITY OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PIPING EQUIPMENT AND COMPONENTS THAT MAY IMPACT IMPLEMENTATION OF THIS WORK.
4. REPAIR OR REPLACE ARCHITECTURAL, MECHANICAL, ELECTRICAL, OR PLUMBING EQUIPMENT OR COMPONENTS DAMAGED WHILE EXECUTING THIS WORK. SUCH REPAIRS OR REPLACEMENTS SHALL MATCH OR EXCEED EXISTING EQUIPMENT OR COMPONENT FINISH AND QUALITY.
5. ALL ELECTRICAL BOXES SHALL BE GALVANIZED STEEL. BACK BOXES MOUNTED ON GALVANIZED STUDS SHALL HAVE BETWEEN STUD MOUNTING BRACKETS EQUAL TO "CADDY" #RBS16 OR #RBS24. PROVIDE 3/4" MUD RINGS WHERE LOCATED IN WALLS WITH 5/8" THICK GYPSUM WALLBOARDS.
6. PROVIDE DEVICE AND EQUIPMENT LABELING PER THE SPECIFICATIONS. ALL PANELBOARDS SHALL BE PROVIDED WITH AN UPDATED TYPED CIRCUIT DIRECTORY WITH CIRCUIT NUMBERS AND EQUIPMENT SERVED.
7. ALL POWER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR.
8. CONFIRM THAT NO WIRING CIRCUIT EXCEEDS 1920VA (120V).
9. ALL WALL OCCUPANCY SENSORS AND COVERPLATES SHALL BE GREY IN COLOR. ALL STANDARD TOGGLE SWITCHES SHALL BE GREY IN COLOR AN COVERPLATES SHALL BE STAINLESS STEEL. REFERENCE ELECTRICAL PAN SPECIFICATIONS.
10. FOR ANY EMERGENCY OR NIGHT LIGHT FIXTURE, A CONSTANT HOT CONDUCTOR SHALL BE ROUTED TO FIXTURE WHETHER IT IS SHOWN OR NOT.
11. EXIT LIGHT FIXTURES MOUNTED ON WALLS SHALL BE AT LEAST 6" ABOVE DOOR HEADER OR PER DRAWING ELEVATIONS.
12. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION ON FIXTURE TYPE AND CONTROLS.

MECHANICAL GENERAL NOTES

1. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC).
2. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
3. CONTRACTOR SHALL SUBMIT HVAC SHEET METAL PLANS WITH ACTUAL FITTINGS AND LAYOUT PER THE SHOP FABRICATION.
4. REFER TO EXISTING STRUCTURAL PLANS, OR VERIFY IN FIELD, THE LOCATION OF ALL STRUCTURAL MEMBERS. NEW ROOF PENETRATIONS AND ROOF CURBS FOR EQUIPMENT ON ROOF ARE SHOWN SCHEMATICALLY AND SHALL BE COORDINATED WITH EXISTING STRUCTURAL MEMBERS.
5. PROVIDE FLEXIBLE CONNECTION AND DUCT TRANSITIONS AT CONNECTIONS TO ALL DUCTED MECHANICAL EQUIPMENT.
6. COORDINATE ROUTING OF DUCTWORK WITH ALL OTHER TRADES TO AVOID INTERFERENCES IN CEILING PLENUM.
7. MAINTAIN ALL MANUFACTURER'S REQUIRED CLEARANCES FOR ALL HVAC EQUIPMENT.
8. COORDINATE ALL CEILING INSTALLED EQUIPMENT AND DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
9. ROUND BRANCH TAKE-OFF FITTINGS TO DIFFUSERS SHALL BE BELLMOUTH TYPE EXCEPT LOCATIONS WHERE LISTED DUCT HEIGHT DOES NOT ACCOMODATE. IN THIS CASE PROVIDE HIGH EFFICIENCY 45 DEGREE RECTANGULAR TO ROUND (HETO) FITTING. BOTH OF THESE FITTINGS ARE REQUIRED IN ALL CIRCUMSTANCES. ALL ROUND BRANCH TAKE-OFF FITTINGS TO DIFFUSERS SHALL INCLUDE AN INTEGRAL MANUAL VOLUME DAMPER.
10. BRANCH DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER NECK UNLESS NOTED OTHERWISE. MAXIMUM LENGTH OF FLEXIBLE DUCT ROUTING TO BE 5'-0" (NO EXCEPTIONS).
11. INSTALL TEMPERATURE SENSORS/THERMOSTATS/CO2 SENSORS AT 48" AFF. COORDINATE LOCATIONS WITH LIGHT SWITCHES. THERMOSTAT BOXES AND CONDUITS TO ABOVE CEILING ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
12. CONTRACTOR SHALL REPAIR OR REPLACE LAY-IN OR GYPBOARD CEILINGS AS NECESSARY TO INSTALL NEW DUCTWORK, PIPING AND ELECTRICAL CONDUITS.
13. ALL EXISTING PLUMBING WASTE, WATER, AND VENT PIPING LOCATION AND ROUTING SHALL BE FIELD VERIFIED.
14. FIRE DAMPERS SHALL BE PROVIDED WHERE DUCTWORK PENETRATES ANY RATED ASSEMBLY. REFER TO ARCHITECTURAL CODE PLAN FOR FURTHER DETAILS.

PLUMBING GENERAL NOTES

1. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC).
2. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS. BEFORE ANY PIPING, DUCTWORK CONDUIT, ETC. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
3. MAINTAIN MANDATORY 10'-0" SEPARATION FROM ALL VENTS/EXHAUST AND OUTSIDE AIR INTAKES. REFER TO MECHANICAL PLANS PRIOR TO ROUGH-IN.
4. ALL DOMESTIC WATER, WASTE, AND VENT PIPING SHALL BE ROUTED TIGHT TO STRUCTURE, COORDINATE ROUTING WITH ALL TRADES.
5. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS. IF ANY DISCREPANCIES OCCUR FROM THESE PLANS, CONTACT A/E IMMEDIATELY.
6. UNLESS NOTED OTHERWISE, MAINTAIN MINIMUM 1/8" PER 1'-0" SLOPE ON ALL DRAINAGE PIPING.
7. ALL PLUMBING PIPING SHALL BE INSULATED / JACKETED PER SPECIFICATIONS.
8. ALL PLUMBING MATERIALS SHALL BE PER SPECIFICATIONS AND SCHEDULES.

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009678
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

MEP GENERAL NOTES AND ABBREVIATIONS

ME001

SHEET 78 OF 102

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GAS CONNECTED LOAD TABLE

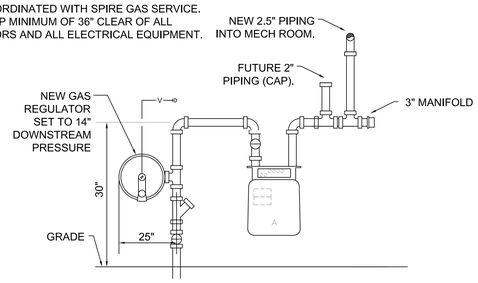
EQUIPMENT:	BTUH
TANKLESS WATER HEATERS (2)	398,000
NEW RTU-1	450,000
FUTURE	150,000
TOTAL BUILDING LOAD	998,000

CONTRACTOR SHALL CONTACT XXXX WITH SPIRE GAS SERVICE (785-XXX-XXXX) AND COORDINATE REQUIREMENTS OF NATURAL GAS SERVICE. SUPPLIED AT LOW PRESSURE (1/2-PSI), AS SHOWN ON PLANS. PROVIDE ALL NECESSARY MATERIALS FOR A COMPLETE INSTALLATION, INCLUDING NEW METER, NEW REGULATOR, ETC.

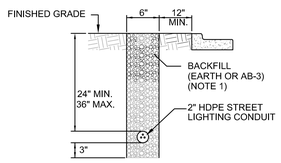
ESTIMATED GAS HEATING LOAD @ LOW PRESSURE (14"wc)

METER	CFH	SIZE
A	1000	2"

NOTE:
GAS METER LOCATION SHALL BE COORDINATED WITH SPIRE GAS SERVICE. KEEP MINIMUM OF 36" CLEAR OF ALL DOORS AND ALL ELECTRICAL EQUIPMENT.



4 GAS METER ELEVATION
SCALE: NONE

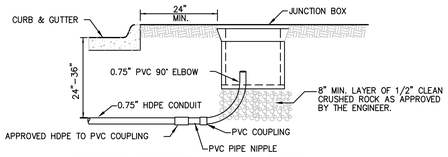


NOTE: BACKFILL IN UNPAVED AREAS SHALL BE FREE OF RUBBLE AND ROCK. CONDUITS SHALL BE PITCHED TO DRAIN.

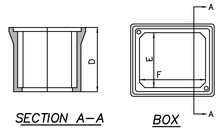
TRENCHING IN UNPAVED AREAS

NOTE:
ALL TRENCHES FOR CONDUIT UNDER PROPOSED PAVED SURFACES SHALL BE BACKFILLED WITH FLOWABLE FILL.

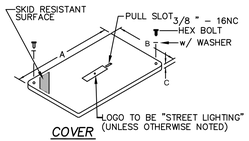
3 TRENCHING DETAILS
SCALE: NTS



JUNCTION BOX INSTALLATION DETAIL



SECTION A-A *BOX*



COVER

TYPE	DIMENSION (IN.)					
	A	B	C	D	E	F
I-JUNCTION	12⅝	12⅝	¾	12¾	9 ¾ - 10½	9 ¾ - 10½

2 EXTERIOR QUAZITE DETAIL
SCALE: NTS

SITE PLAN NOTES

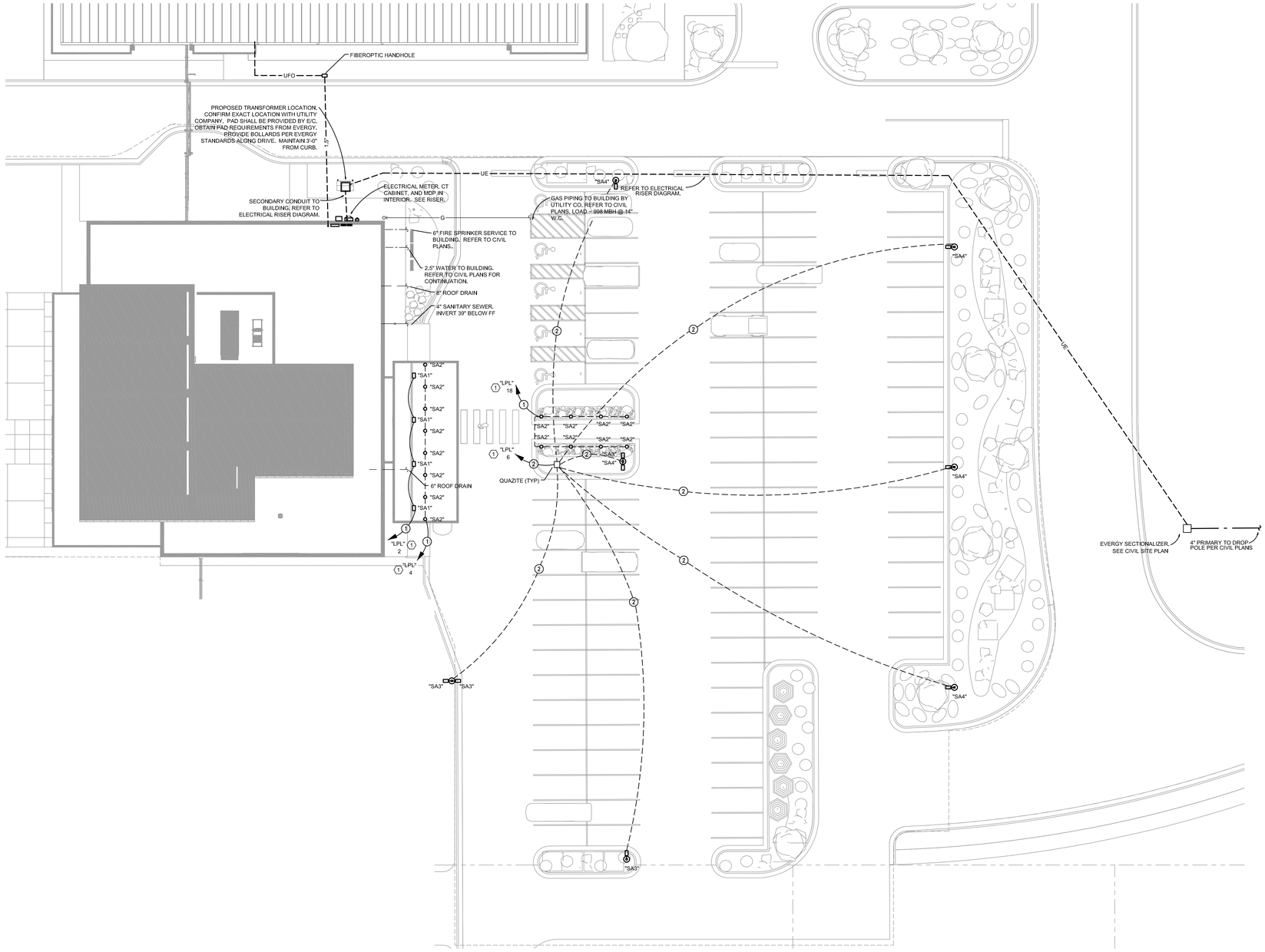
1. ROUTE HOMERUN VIA LIGHTING CONTROL SYSTEM "LCS1". REFER TO RELAY PANEL SCHEDULE FOR ZONE CONTROLLED BY RELAY PRIOR TO HOMERUN TO POWER PANEL. REFER TO DETAILS ON SHEET E300.

FEEDER SCHEDULE

1. 2 - #10 AND 1 - #10 GROUND IN 0.75" CONDUIT.
2. 2 - #8 AND 1 - #10 GROUND IN 0.75" CONDUIT.

GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND FOR ROUTING OF ALL UTILITIES OUTSIDE THE BUILDING.
2. CONTRACTOR SHALL CONTACT LEE'S SUMMIT WATER DEPARTMENT AND ARRANGE FOR WATER SERVICE AND FIRE SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR WATER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE REQUIREMENTS OF LOCAL AUTHORITIES.
3. CONTRACTOR SHALL CONTACT LEE'S SUMMIT PUBLIC WORKS AND ARRANGE FOR SEWER SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY LOCAL AUTHORITIES INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR SEWER SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
4. CONTRACTOR SHALL CONTACT SPIRE GAS AND ARRANGE FOR GAS SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR GAS SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
5. CONTRACTOR SHALL CONTACT EVERGY POWER & LIGHT AND ARRANGE FOR ELECTRIC SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.
6. CONTRACTOR SHALL STUB OUT A 1.5" SUPPLY LINE FOR IRRIGATION SYSTEM FROM INTERIOR BUILDING BACKFLOW PREVENTER. REFER TO CIVIL PERFORMANCE SPECIFICATION FOR SYSTEM REQUIREMENTS.



1 MEP SITE PLAN
SCALE: 1/16"=1'-0"

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

CORY WILSON
STATE OF MISSOURI
11.26.2024
NUMBER PE-2010009878
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

MEP SITE PLAN

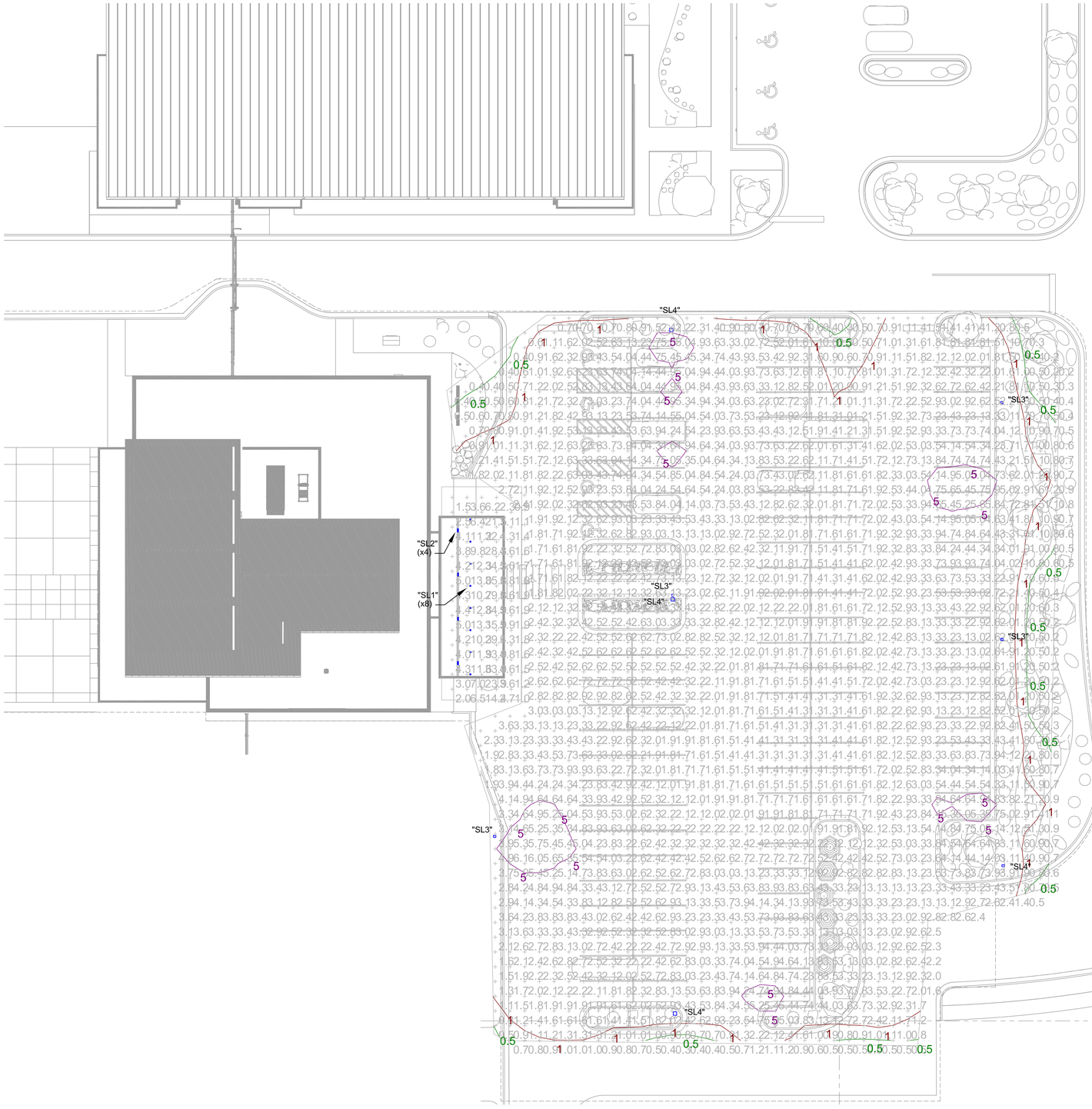
ME002

EXTERIOR LIGHT FIXTURE PHOTOMETRIC SCHEDULE

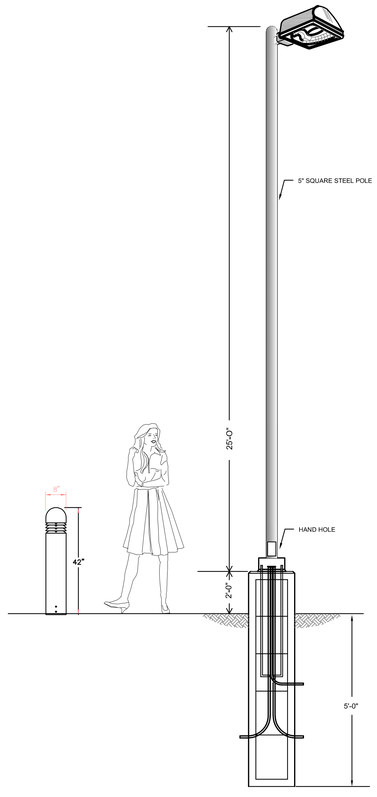
Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
○	SL1		8	KIM LIGHTING	PA7R-CH1-12L-020-4K7	PA7R	1	1932	1	22	LIT SITE_mage1.bmp
▭	SL2		4	KIM LIGHTING	CY2-45-4K7-2-3-3-R	CY2	1	4405	1	51,57	LIT SITE_mage2.bmp
□	SL3		4	KIM LIGHTING	AR2-81L-700-4K7-3	AR2	1	18598	1	171,66	LIT SITE_mage3.bmp
□	SL4		3	KIM LIGHTING	AR2-81L-700-4K7-4	AR2	1	19220	1	178,24	LIT SITE_mage4.bmp

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	+	2.6 fc	6.1 fc	0.2 fc	30.5:1	13.0:1
Canopy	+	9.6 fc	35.9 fc	0.9 fc	39.9:1	10.7:1



1 SITE PHOTOMETRICS PLAN
SCALE: 1/16"=1'-0"



2 LIGHT POLE DETAILS
SCALE: NTS

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010001678
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
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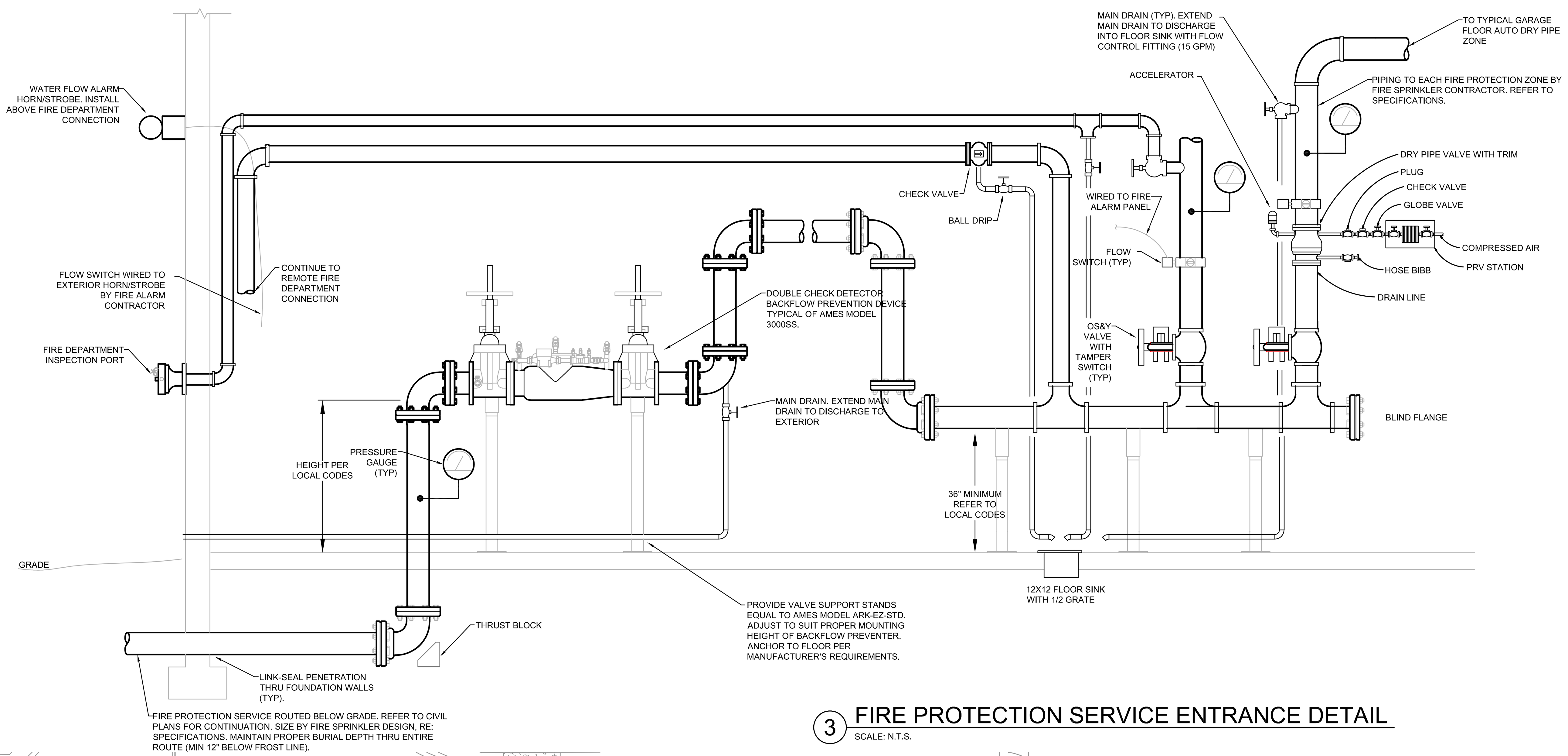
SHEET TITLE

LIGHTING SITE PHOTOMETRIC PLAN

ME003

SHEET 80 OF 102



3 FIRE PROTECTION SERVICE ENTRANCE DETAIL
SCALE: N.T.S.

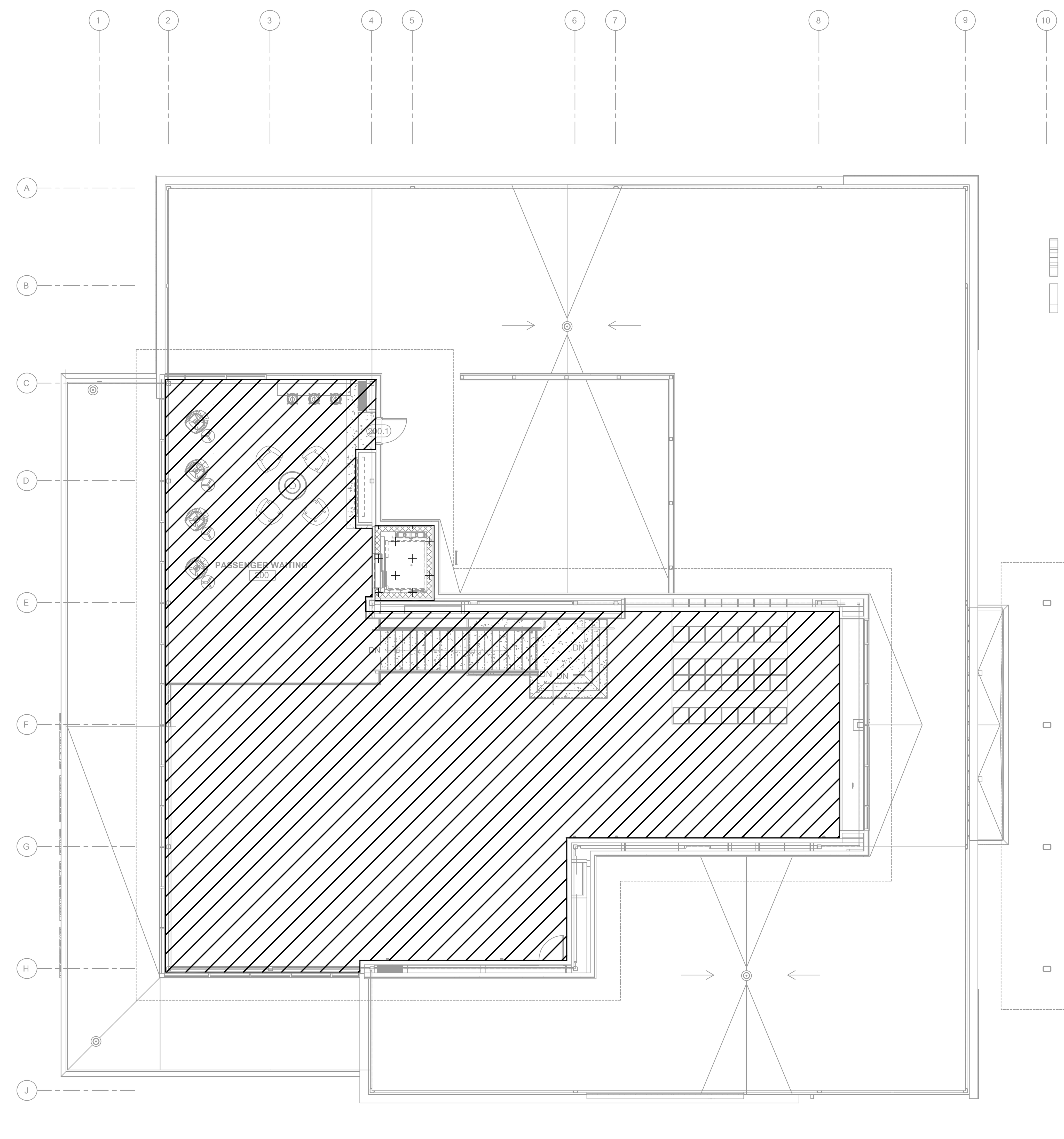
HATCH KEY

- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW "LIGHT HAZARD" FIRE SPRINKLER COVERAGE PER NFPA 13 AND SPECIFICATION DIVISION 21
- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW "ORDINARY HAZARD" FIRE SPRINKLER COVERAGE PER NFPA 13 AND SPECIFICATION DIVISION 21
- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW "ORDINARY HAZARD" FIRE SPRINKLER COVERAGE PER SPECIFICATION DIVISION 21
- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW DRY TYPE SPRINKLER SYSTEM WHERE FREEZING COULD OCCUR FIRE SPRINKLER COVERAGE PER SPECIFICATION DIVISION 21. FURNISH ZONE WITH DRY TYPE VALVE, AIR TANK, CONTROLS, ETC.
- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW "ORDINARY HAZARD" FIRE SPRINKLER COVERAGE AT TOP OF ELEVATOR SHAFT PER SPECIFICATION DIVISION 21
- DENOTES AREA WHICH IS TO BE PROVIDED WITH NEW "LIGHT HAZARD" FIRE SPRINKLER COVERAGE AT IN ARCHITECTURAL SUSPENDED CEILING CLOUD PER SPECIFICATION DIVISION 21. FEED FROM SIDEWALL INTO CLOUD AREA (NOT UPPER CEILING).

GENERAL NOTES

1. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR VERIFYING HYDRANT FLOWS PRIOR TO ANY DESIGN CALCULATIONS AND LAYOUTS. WHAT IS SHOWN ON THESE PLANS IS SCHEMATIC AND IS BASED UPON REDUCING PIPING FRICTION LOSS WITHOUT THE NEED OF A FIRE PUMP. FIRE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND FOLLOWING SAME PROCEDURES.
2. THE PRESSURES GIVEN WERE APPROXIMATELY THE FOLLOWING:
   2.1. 76 PSI AT 113TH PLACE AND VERDE DR.
   2.2. 65 PSI AT 113TH PLACE & 113TH TERRACE.
3. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR VERIFYING OCCUPANCY HAZARD CLASSIFICATION FOR AREAS TO BE PROVIDED WITH NEW SPRINKLER COVERAGE AS INDICATED ON PLANS.
4. THE ENTIRE DESIGN SHALL BE A WET SYSTEM FOLLOWING NFPA 13 FOR ENTIRE BUILDING EXCEPT FOR ATTIC SPACE. THIS AREA SHALL BE PROTECTED WITH A DRY TYPE SYSTEM. LOCATION OF DRY TYPE COMPONENTS, VALVE, COMPRESSOR, ETC. SHALL BE LOCATED ON 3RD FLOOR STORAGE ROOM.
5. SPRINKLER CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL LAWS, CODES AND ORDINANCES, NATIONAL FIRE PROTECTION ASSOCIATION, AND THE AUTHORITY HAVING JURISDICTION.
6. CONTRACTOR SHALL COORDINATE ALL SCHEDULING, ELEVATIONS, SIZES, QUANTITIES, AND ROUTING OF WORK WITH OTHER TRADES. COORDINATE AND FIELD VERIFY SIZE, LOCATION, ELEVATION AND QUANTITY OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PIPING EQUIPMENT AND COMPONENTS THAT MAY IMPACT IMPLEMENTATION OF THIS WORK.
7. UNLESS OTHERWISE INDICATED, ALL AREAS OF THE BUILDING SHALL BE "WET-PIPE" FIRE PROTECTION SYSTEM AS SHOWN ON PLANS.
8. PROVIDE NEW QUICK-RESPONSE SPRINKLER HEADS FOR ALL AREAS INDICATED ON PLANS. FOR AREAS WITH LAY-IN OR HARD CEILINGS, PROVIDE SEMI-RECESSED PENDANT HEADS WITH ESCUTCHEON PLATES INSTALLED IN CEILING (ALL PARTS SHALL BE POLISHED CHROME). UNLESS OTHERWISE NOTED, AREAS WITHOUT A CEILING (OR ANY UNFINISHED AREA) SHALL BE PROVIDED WITH BRASS, UN-PLATED, UPRIGHT PENDANT HEADS.
9. REFER TO SPECIFICATIONS FOR FURTHER FIRE PROTECTION SYSTEM REQUIREMENTS NOT STATED ON PLANS.
10. FIRE PROTECTION WORK SHALL BE INSTALLED BY A QUALIFIED CONTRACTOR (SPRINKLER FITTER OR PER JURISDICTIONAL REQUIREMENTS) WITH A MINIMUM 3 YEARS OF INSTALLATION EXPERIENCE ON PROJECTS WITH FIRE PROTECTION WORK SIMILAR TO THAT REQUIRED FOR THE PROJECT.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL FLOW INFORMATION FOR DESIGN FROM UTILITY COMPANY. VERIFY EXACT READINGS AT CLOSEST LOCATION TO BUILDING.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HYDRAULIC CALCULATIONS FOR ENTIRE FIRE PROTECTION SYSTEM. PRIOR TO BEGINNING WORK, FIRE PROTECTION PLANS SHOWING SPRINKLER HEAD LOCATIONS, HYDRAULIC CALCULATION, AND ALL NECESSARY INFORMATION SHALL BE SUBMITTED FOR APPROVAL AUTHORITY HAVING JURISDICTION. PLANS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF KANSAS.

1 MECHANICAL PLAN - LEVEL 1
SCALE: 1/8"=1'-0"



1 FIRE PROTECTION PLAN - LEVEL 2
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
10.22.2024
NUMBER PE-2010009876
PROFESSIONAL ENGINEER

Cory Wilson - MO #PE-2010009876
Certificate of . 10-21-2024 #2024005146

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

FIRE PROTECTION PLAN

FP100

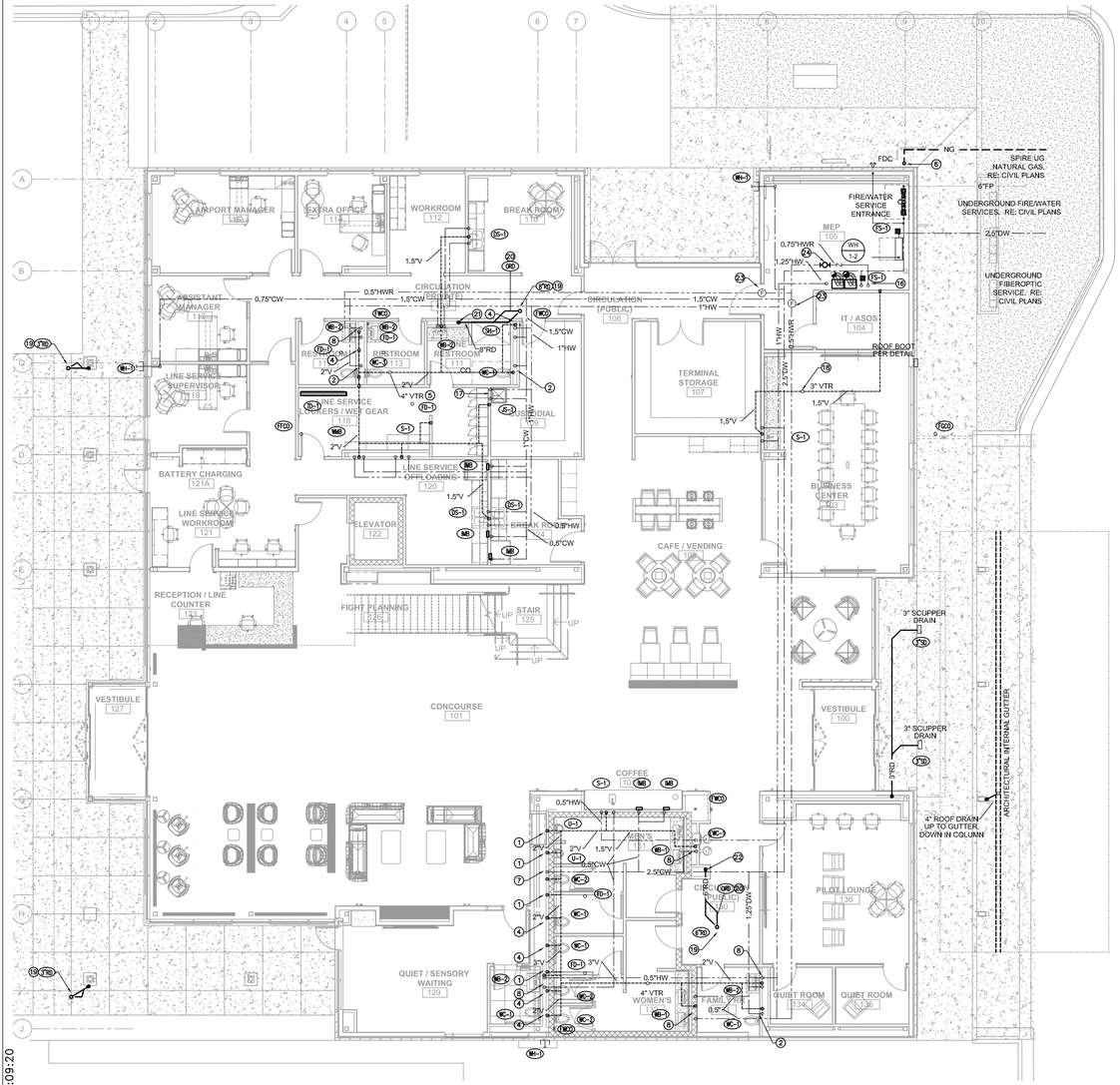
SHEET 81 OF 102

PLAN NOTES - ABOVE GRADE

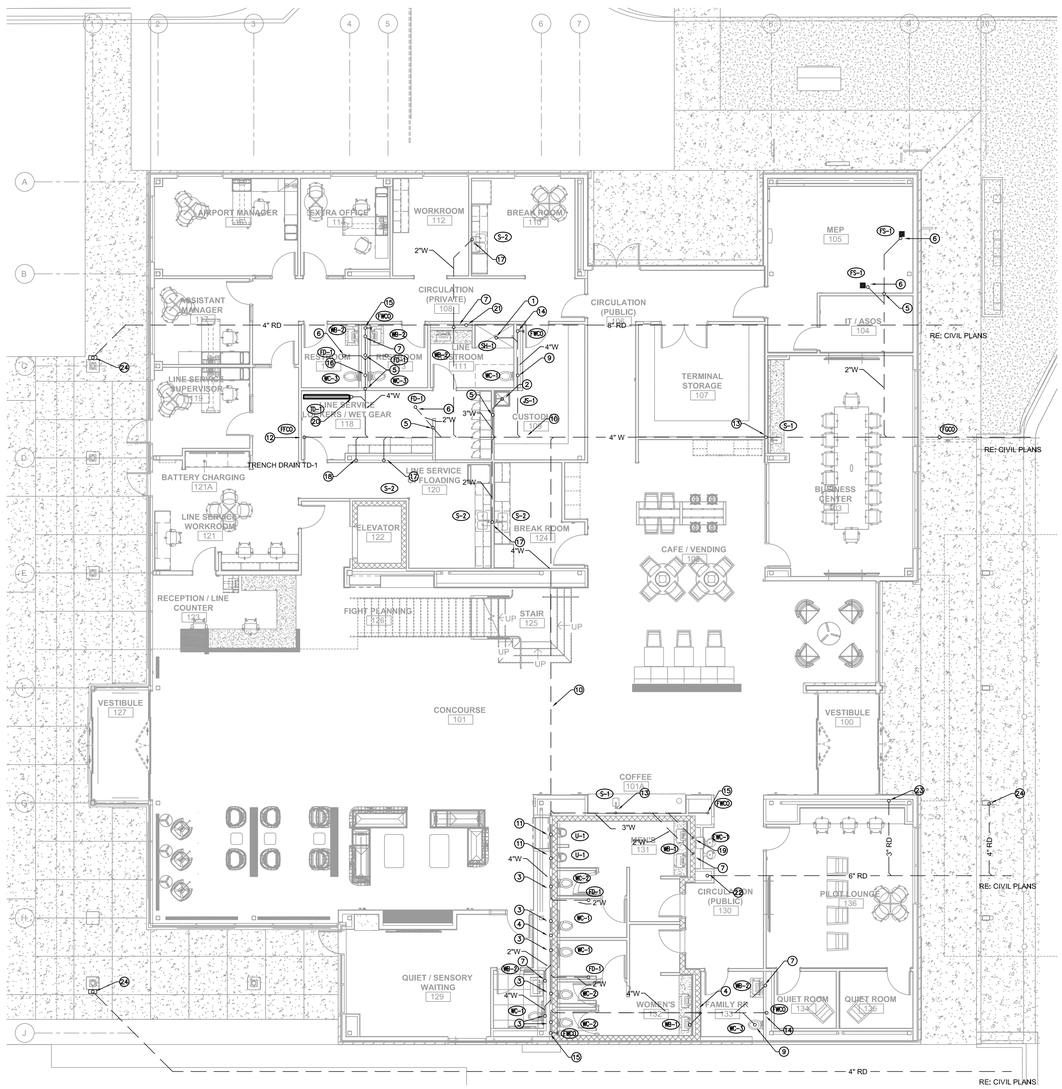
1. 1.5" VENT DOWN.
2. 1.25" COLD WATER DOWN TO WATER CLOSETS.
3. CONNECT 2" VENT UP TO 3" VENT UP THRU ROOF (VTR).
4. 2" CIRCUIT VENT DOWN.
5. 3" VENT UP TO 4" VENT THRU ROOF (VTR).
6. NEW GAS METER/REGULATOR WITH LOADS PER SCHEDULE. RE: MECH PLAN.
7. 2.5" COLD WATER DOWN TO URINALS/WATER CLOSETS. ROUTE MAIN HORIZONTALLY LOW TO CONNECT TO ALL WATER CLOSET FLUSH VALVES (RE: RISER DIAGRAM).
8. ROUTE 1-1/2" VENT, 1/2" COLD AND 1/2" HOT WATER DOWN WITHIN WALL TO SERVE LAVATORIES (TEE BOTH DIRECTIONS IF DUAL LAVS).
9. ROUTE 1.5" VENT, 1/2" COLD AND 1/2" HOT WATER DOWN TO SINK.
10. NEW WALL MOUNTED INSTANEOUS WATER HEATER. REFER TO DETAIL FOR PIPING CONNECTIONS. INSTALL 1.25" COLD WATER MAIN AND 1.25" HOT WATER MAIN FROM MANIFOLD.
11. 2" GAS PIPING DOWN WATER HEATERS. REFER TO WATER HEATER DETAIL.
12. 2" GAS PIPING UP TO RTU. INSTALL ACCESSORIES AT CONNECTION, INCLUDING GAS COCK, DIRT LEG, AND UNION. TRANSITION TO MATCH CONN.
13. 1.5" VENT, 0.5" COLD/HOT WATER DOWN TO WASHING MACHINE ROUGH-IN BOX.
14. 0.5" COLD WATER DOWN TO ICE MAKER ROUGH-IN BOX, EQUAL TO GUY GRAY OR IPS.
15. 0.75" COLD WATER DOWN TO NEW WALL HYDRANT. MAINTAIN FREEZELESS CONNECTION PER DETAIL. HOSE BIBB EQUAL TO WOODFORD WITH RECESSED BOX AND LOOSE TEE KEY.
16. NEW 1" HOT AND COLD WATER, 0.75" RECIRC DOWN TO WATER HEATER PER DETAILS.
17. NEW 0.5" HOT/COLD WATER DOWN TO JANITOR BASIN.
18. 2" VENT UP TO 3" VENT THRU ROOF.
19. 4" OR 6" or 8" PRIMARY/SECONDARY DRAINS UP TO COMBINATION ROOF DRAIN.
20. OVERLFOW FLOW SENSOR INSTALLED IN HORIZONTAL PRIOR TO CONNECTION INTO PRIMARY DRAIN. SEE FIXTURE SCHEDULE, BMS CONNECTION BY TCC.
21. 8" ROOF DRAIN DOWN INTO CHASE. REFER TO UNDERGROUND PLUMBING PLAN.
22. 6" ROOF DRAIN DOWN INTO CHASE. REFER TO UNDERGROUND PLUMBING PLAN.
23. AUTOMATIC FLOW VALVE SET TO 1 GPM.
24. INLINE ECO-CIRC PUMP PER DETAIL.

PLAN NOTES - UNDERGROUND

1. 2" TRAPPED WASTE UP TO SHOWER BASIN DRAIN.
2. 3" TRAPPED WASTE UP TO JANITOR BASIN.
3. 4" WASTE FROM BELOW GRADE UP TO WATER CLOSET CARRIER, 2" VENT UP.
4. 2" CIRCUIT VENT UP.
5. 1.5" VENT UP.
6. 2" TRAPPED WASTE FROM BELOW GRADE TO FLOOR DRAIN/SINK. PROVIDE FLOOR DRAIN WITH PROSET TRAP-GUARD INSERT (RE: DETAIL).
7. 2" WASTE FROM BELOW GRADE TO LAVATORIES.
8. 2" TRAPPED WASTE FROM BELOW GRADE TO FLOOR SINK.
9. 4" WASTE UP TO WALL MOUNTED WATER CLOSET CARRIER, CONTINUE 2" VENT UP.
10. INSTALL ALL SANITARY PIPING AT 1/8" SLOPE. UPON COMPLETE INSTALLATION OF NEW BELOW GRADE PIPING, CONTRACTOR SHALL TEST PIPING AT 10 FT HEAD BEFORE MAKING CONNECTION TO EXISTING SAN SEWER.
11. 2" WASTE UP TO URINAL.
12. 4" WASTE UP TO FINISH FLOOR CLEANOUT.
13. 2" WASTE UP TO NEW SINK. CONTINUE 1.5" VENT UP.
14. 4" WASTE UP TO FINISH WALL CLEANOUT AT 18" AFF. CONTINUE 2" VENT UP.
15. 4" WASTE UP TO FINISH WALL CLEANOUT AT 18" AFF.
16. 4" WASTE UP TO WATER CLOSET DOUBLE CARRIER, 2" VENT UP.
17. 2" WASTE UP TO DOUBLE COMPARTMENT SINK.
18. 2" WASTE UP TO LAUNDRY ROUGH-IN BOX.
19. 2" WASTE UP TO ELECTRIC WATER COOLER, CONTINUE 1.5" VENT UP.
20. 3" TRAPPED WASTE CONNECTED TO END DISCHARGE OF TRENCH DRAIN.
21. 8" STORM PIPING UP INTO CHASE.
22. 6" STORM PIPING UP INTO CHASE.
23. 3" STORM PIPING UP INTO CHASE.
24. 4" STORM PIPING UP CONNECTING TO GUTTER TO ROUND BOOT.



1 PLUMBING PLAN - ABOVE GRADE
SCALE: 1/8"=1'-0"



1 WASTE & VENT PLAN - BELOW GRADE
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

CORY WILSON
STATE OF MISSOURI
11.26.2024
NUMBER PE-2010009878
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
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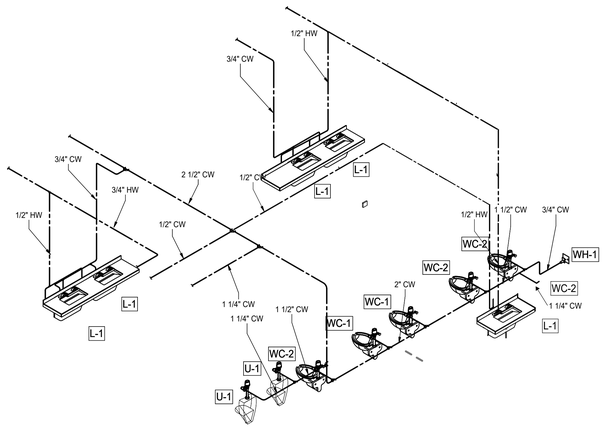
SHEET TITLE

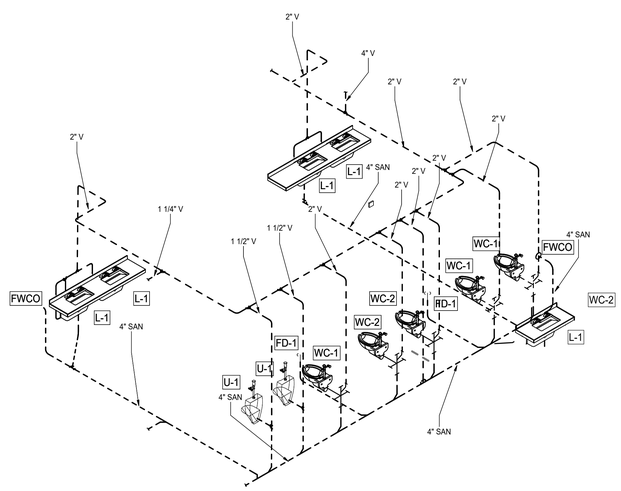
ABOVE AND BELOW GROUND PLUMBING PLANS

P-100

SHEET 82 OF 102



2 PARTIAL WATER PIPING DIAGRAM
SCALE: NONE



1 PARTIAL WASTE/VENT PIPING DIAGRAM
SCALE: NONE

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009078
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
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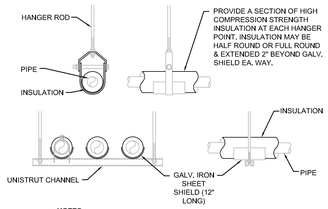
APPROVED BY:	Approver

SHEET TITLE

PLUMBING DIAGRAMS

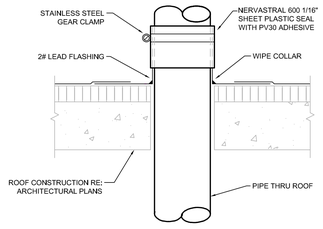
P-300

SHEET 83 OF 102

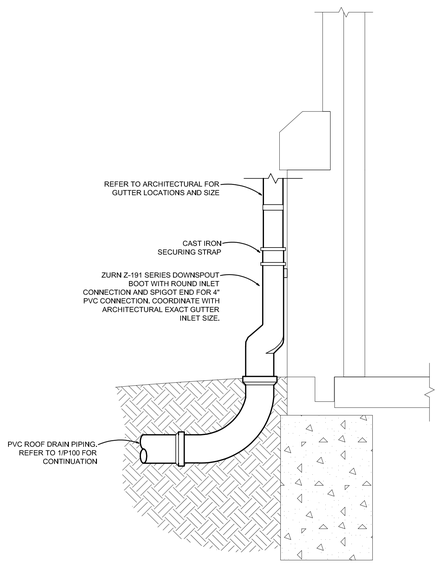


NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS,
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.

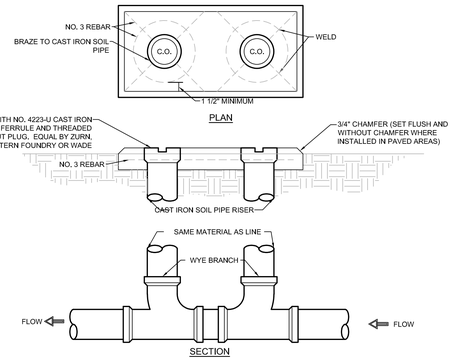
9 PIPE INSULATION DETAIL
SCALE: NONE



8 VENT THRU ROOF DETAIL
SCALE: NONE

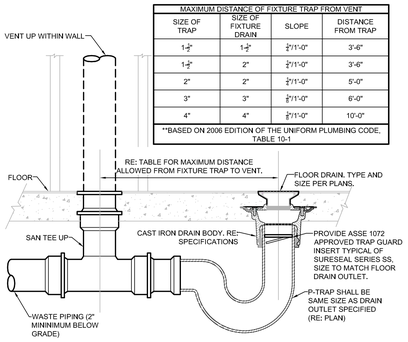


7 DOWNSPOUT BOOT DETAIL
SCALE: NONE

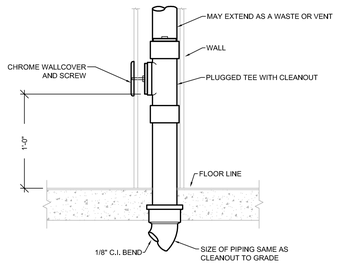


6 TWO WAY FINISHED GRADE CLEANOUT DETAIL
SCALE: NONE

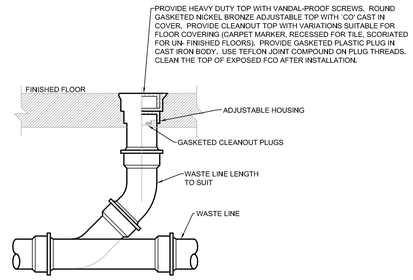
MAXIMUM DISTANCE OF FIXTURE TRAP FROM VENT			
SIZE OF TRAP	SIZE OF FIXTURE DRAIN	SLOPE	DISTANCE FROM TRAP
1-1/4"	1-1/4"	1/4"/1'-0"	3'-6"
1-1/2"	2"	1/4"/1'-0"	3'-6"
2"	2"	1/4"/1'-0"	5'-0"
3"	3"	1/4"/1'-0"	6'-0"
4"	4"	1/4"/1'-0"	10'-0"
**BASED ON 2006 EDITION OF THE UNIFORM PLUMBING CODE, TABLE 10-1			



5 FLOOR DRAIN DETAIL
SCALE: NONE

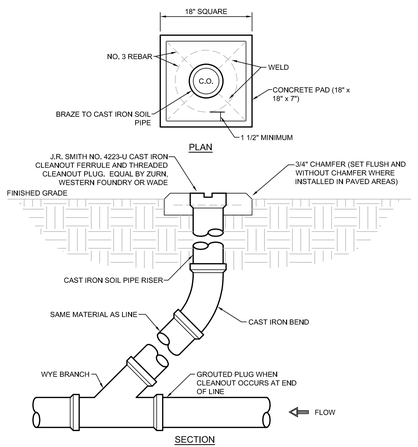


4 WALL CLEANOUT DETAIL
SCALE: NONE

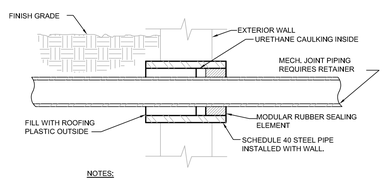


LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45 DEGREES, AT 50'-0" INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUTS WHERE THERE IS 1'-6" CLEAR AROUND. CONSULT LOCAL CODES FOR OTHER FCO REQUIREMENTS.

3 FLOOR CLEANOUT DETAIL
SCALE: NONE



2 FINISHED GRADE CLEANOUT DETAIL
SCALE: NONE



NOTES:
1. IF PIPING PASSES THROUGH WALL ABOVE GRADE, SLEEVE SHALL BE FLUSH WITH EXTERIOR SIDE OF WALL

1 PIPE SLEEVE THRU EXTERIOR WALL
SCALE: NONE

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010007578
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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PLUMBING DETAILS

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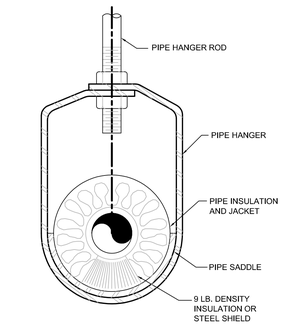
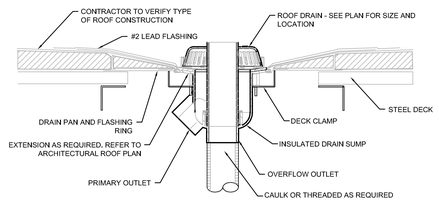
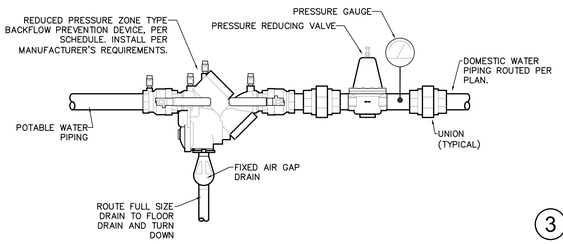


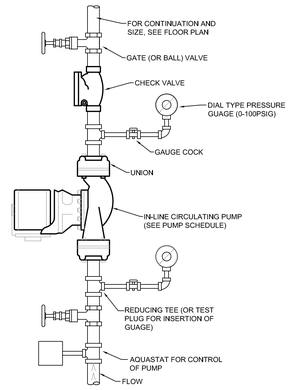
11 PIPE HANGER DETAIL
SCALE: NONE



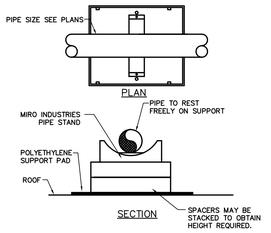
10 ROOF DRAIN DETAIL
SCALE: NONE



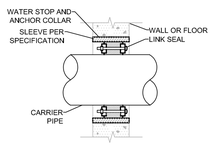
9 BACKFLOW PREVENTOR DETAIL
SCALE: NONE



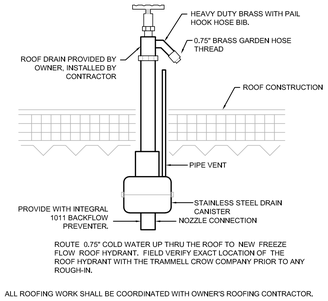
3 CIRCULATING PUMP DETAIL
SCALE: NONE



9 ROOF PIPE SUPPORT
SCALE: NONE

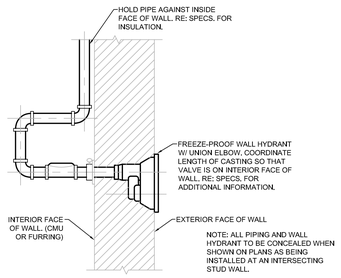


8 LINK SEAL DETAIL
SCALE: NONE

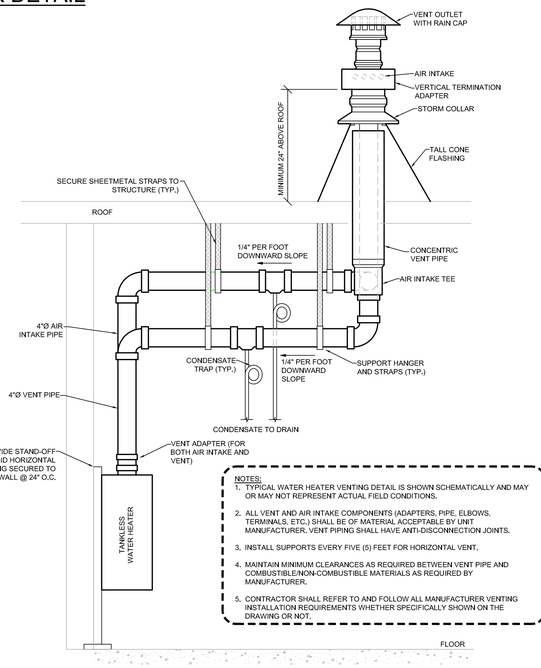


ALL ROOFING WORK SHALL BE COORDINATED WITH OWNER'S ROOFING CONTRACTOR.

7 ROOF HYDRANT DETAIL
SCALE: NONE

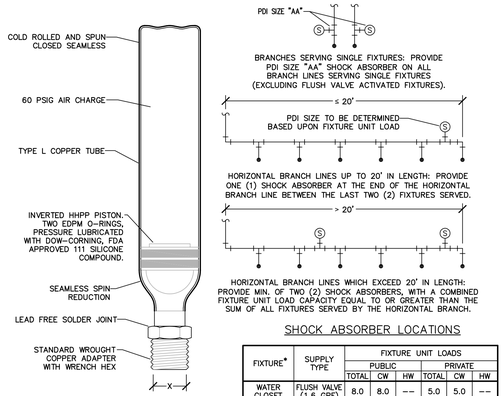


6 WALL HYDRANT DETAIL
SCALE: NONE

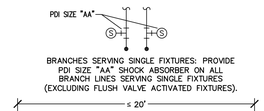


NOTES:
1. TYPICAL WATER HEATER VENTING DETAIL IS SHOWN SCHEMATICALLY AND MAY OR MAY NOT REPRESENT ACTUAL FIELD CONDITIONS.
2. ALL VENT AND AIR INTAKE COMPONENTS (ADAPTERS, PIPE, ELBOWS, TERMINALS, ETC.) SHALL BE OF MATERIAL ACCEPTABLE BY UNIT MANUFACTURER. VENT PIPING SHALL HAVE ANTI-DISCONNECTION JOINTS.
3. INSTALL SUPPORTS EVERY FIVE (5) FEET FOR HORIZONTAL VENT.
4. MAINTAIN MINIMUM CLEARANCES AS REQUIRED BETWEEN VENT PIPE AND COMBUSTIBLE/NON-COMBUSTIBLE MATERIALS AS REQUIRED BY MANUFACTURER.
5. CONTRACTOR SHALL REFER TO AND FOLLOW ALL MANUFACTURER VENTING INSTALLATION REQUIREMENTS WHETHER SPECIFICALLY SHOWN ON THE DRAWING OR NOT.

2 TANKLESS WATER HEATER VENTING DETAIL
SCALE: NONE



PDI SIZE	PIPE SIZE (X)	FIXTURE UNIT LOAD
AA	0.5"	1–3
A	0.5"	1–11
B	0.75"	12–32
C	1"	33–60
D	1"	61–113
E	1"	114–154
F	1"	155–330



SHOCK ABSORBER LOCATIONS

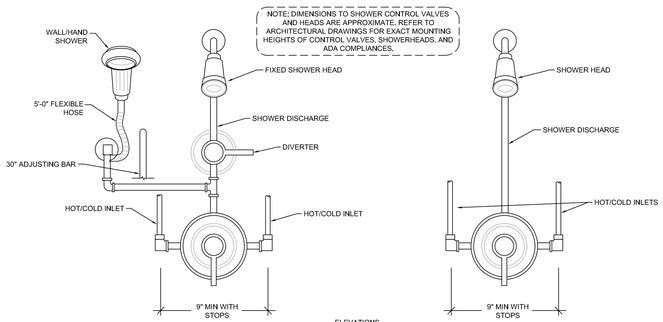
FIXTURE*	SUPPLY TYPE	FIXTURE UNIT LOADS					
		PUBLIC			PRIVATE		
		TOTAL	CW	HW	TOTAL	CW	HW
WATER CLOSET	FLUSH VALVE (1.6 GPF)	8.0	8.0	--	5.0	5.0	--
WATER CLOSET	FLUSH TANK (1.6 GPF)	5.0	5.0	--	2.5	2.5	--
URINAL	FLUSH VALVE (1.0 GPF)	4.0	4.0	--	--	--	--
LAVATORY	FAUCET	2.0	1.5	1.5	1	1	1
SINK	FAUCET	2.0	1.5	1.5	1	1	1
SHOWER	MIXING VALVE	4	2	3	2	1	2
BATHTUB	FAUCET	4	2	3	2	1.5	1.5
SERVICE SINK	FAUCET	3	3	3	--	--	--
WASHING MACHINE	AUTOMATIC (8 lb)	3	2.5	2.5	1.5	1	1

*ALL FIXTURES NOT LISTED IN TABLE SHALL HAVE FIXTURE UNIT LOAD VALUE DETERMINED BY 2006 IPC TABLE E103.3

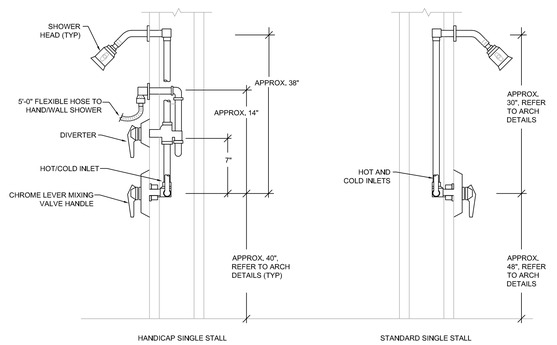
PROVIDE SHOCK ABSORBERS ON ALL PLUMBING BATTERIES AND SINGLE FIXTURES AS SPECIFIED. ALL SHOCK ABSORBERS SHALL BE PROVIDED, SIZED, AND INSTALLED PER PDI STANDARD WH-201.

5 SHOCK ABSORBER DETAIL
SCALE: NONE

NOTE: DIMENSIONS TO SHOWER CONTROL VALVES AND HEADS ARE APPROXIMATE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS OF CONTROL VALVES, SHOWERHEADS, AND ADA COMPLIANCES.

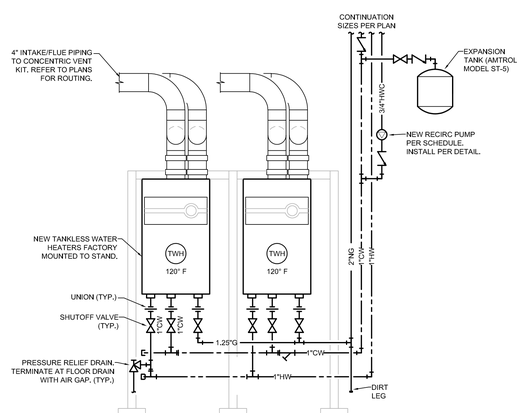


ELEVATIONS



SECTIONS

4 SHOWER INSTALLATION DETAIL
SCALE: NONE



1 WATER HEATER (WH-1-2) PIPING DIAGRAM
SCALE: NONE

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI · CORY WILSON · NUMBER PE-2010009678 · PROFESSIONAL ENGINEER
11.26.2024

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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PLUMBING DETAILS

P-410

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PLUMBING FIXTURE SCHEDULE - SUPPLY FIXTURES

TAG	TYPE	MANUFACTURER[3]	MODEL	DESCRIPTION	ACCESSORIES	CONNECTIONS[1,2] WASTE	VENT	CW	HW
WC-1	WALL MOUNTED HIGH EFFICIENCY WATER CLOSET	TOTO	CT708EV	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (1.28 GPF) SIPHON JET FLUSH WATER CLOSET WITH ELONGATED BOWL, 1-1/2" BACK SPUD, AND 2-1/2" TRAPWAY. REFER TO ARCHITECTURAL PLANS FOR ADA MOUNTING HEIGHT.	FINISH SHALL BE COTTON (#01). PROVIDE WITH TOTO MODEL #SC534 WHITE OPEN FRONT ELONGATED SEAT LESS COVER. PROVIDE WITH ASSE 1037 COMPLIANT, CONCEALED ECO-POWER 1.28 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF TOTO MODEL TET3LN31#SS WITH 1" ANGLE STOP, 1-1/2" VACUUM BREAKER, 4"x4" STAINLESS STEEL COVER PLATE. UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 24 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED, ZURN, JR SMITH, OR EQUAL.	4"	2"	1-1/4"	--
WC-2	WALL MOUNTED HIGH EFFICIENCY WATER CLOSET	TOTO	CT708EV	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (1.28 GPF) SIPHON JET FLUSH WATER CLOSET WITH ELONGATED BOWL, 1-1/2" BACK SPUD, AND 2-1/2" TRAPWAY. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT.	FINISH SHALL BE COTTON (#01). PROVIDE WITH TOTO MODEL #SC534 WHITE OPEN FRONT ELONGATED SEAT LESS COVER. PROVIDE WITH ASSE 1037 COMPLIANT, CONCEALED ECO-POWER 1.28 GPF AUTOMATIC INFRARED SENSOR ACTIVATED FLUSH VALVE TYPICAL OF TOTO MODEL TET2LN31#SS WITH 1" ANGLE STOP, 1-1/2" VACUUM BREAKER, 14"x12" STAINLESS STEEL ACCESS COVER PLATE. UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 24 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED, ZURN, JR SMITH, OR EQUAL.	4"	2"	1-1/4"	--
UR-1	WALL MOUNTED HIGH EFFICIENCY URINAL	TOTO	UE906UVG	WALL MOUNTED, VITREOUS CHINA, ASME A112.19.2 COMPLIANT, LOW CONSUMPTION (0.125 GPF) WASHOUT URINAL WITH CONCEALED INTEGRAL TRAP, 3/4" BACK SPUD INLET. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.	FINISH SHALL BE COTTON (#01). PROVIDE WITH INTEGRATED FLUSH-VALVE WITH 1/2" ANGLE STOP, 1/2" VACUUM BREAKER, ECO SELF POWERED HYDROELECTRIC FLUSH VALVE AND SENSOR, AND STAINLESS STEEL DRAIN COVER (#THU3010). UNIT SHALL INCLUDE A PISTON VALVE WITH STAINLESS STEEL SELF-CLEANING SOLENOID, WITH 12 HOUR MAINTENANCE FLUSH. PROVIDE WITH HEAVY DUTY FLOOR MOUNTED CARRIER COMPATIBLE WITH FIXTURE SPECIFIED	2"	1-1/2"	3/4"	--
WB-1	WALL MOUNTED CUSTOM WASH STATION	BRADLEY	SEE ARCH PLANS	WALL MOUNTED, DUAL BOWL OMNI-DECK WITH CUSTOM LENGTH PER ARCH PLANS. LD-3010 SERIES WITH TERREON SOLID SURFACE DECK WITH INTEGRAL RECTANGULAR BOWLS	FINISH SHALL BE COLOR AS SELECTED BY ARCHITECT (BASIS IS BRUSHED BRONZE, TBD). PROVIDE WITH TWO (2) BRADLEY WASHBAR DUO WBD1 WHICH INCLUDES SOAP DISPENSER AND FAUCET WITH TMV AND HAND DRYER. FURNISH ALL REQUIRED ACCESSORIES INCLUDING WALL BRACKETS, STAINLESS SHROUDS FOR COVERING SUPPLY/P-TRAPS, TOP FEED SOAP REFILL, BRUSH STAINLESS IN COLOR.	2"	1-1/2"	1/2"	1/2"
WB-2	WALL MOUNTED CUSTOM WASH STATION	BRADLEY	SEE ARCH PLANS	WALL MOUNTED, SINGLE BOWL OMNI-DECK WITH CUSTOM LENGTH PER ARCH PLANS (30" AND 64"). LD-3010 SERIES WITH TERREON SOLID SURFACE DECK WITH INTEGRAL RECTANGULAR BOWLS	FINISH SHALL BE COLOR AS SELECTED BY ARCHITECT (BASIS IS BRUSHED BRONZE, TBD). PROVIDE WITH ONE (1) BRADLEY WASHBAR DUO WBD1 WHICH INCLUDES SOAP DISPENSER AND FAUCET WITH TMV AND HAND DRYER. FURNISH ALL REQUIRED ACCESSORIES INCLUDING WALL BRACKETS, STAINLESS SHROUDS FOR COVERING SUPPLY/P-TRAPS, TOP FEED SOAP REFILL, BRUSH STAINLESS IN COLOR.	2"	1-1/2"	1/2"TW	
L-1	WALL HUNG WHEELCHAIR USERS LAVATORY	TOTO	LT308	WALL MOUNTED, ADA AND ASME A112.19.2 COMPLIANT VITREOUS CHINA LAVATORY WITH 20.5"x27" OVERALL SIZE AND 15"x15" BASIN WITH SANAGLOSS CERAMIC GLAZING, FRONT OVERFLOW, AND MOUNTING KIT. COORDINATE FAUCET HOLE QUANTITY AND SPACING WITH FAUCET SPECIFIED. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. PROVIDE WITH PUNCHING FOR CONCEALED ARM CARRIER, AND APPROPRIATE FLOOR MOUNTED CARRIER SUPPORTS TYPICAL OF JR SMITH OR ZURN. FINISH TO BE COTTON.	PROVIDE WITH ADA COMPLIANT AUTOMATIC INFRARED, HYDRO-POWER SELF GENERATING, SENSOR OPERATED FAUCET TYPICAL OF TOTO AXIOM MODEL TEL3LK10S. 0.20 GALLON PER CYCLE SINGLE HOLE MOUNT SELF-ADJUSTING FAUCET WITH CONTROL BOX AND MOUNTING HARDWARE. PROVIDE WITH CHROME PLATED FINISH, GRID STRAINER, ANTI-SCALD FEATURE, AND "ON-DEMAND" OPERATION. COORDINATE COUNTERTOP OPENINGS WITH GENERAL CONTRACTOR. PROVIDE WITH CHROME PLATED COPPER SUPPLIES WITH QUARTER-TURN ANGLE STOPS. PROVIDE CHROME PLATED CAST-BRASS TRAP WITH CLEANOUT, TRAP ARM EXTENSION TO WALL, AND WALL ESCUTCHEON. COVER EXPOSED COLD AND HOT SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD, TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS, AND STOP VALVE LOCKING ACCESS COVER.	2"	1-1/2"	1/2"TW	
DS-1	STAINLESS STEEL DOUBLE COMPARTMENT UNDERMOUNT SINK	ELKAY	ECTRY321719-LTBFC (CROSSTOWN)	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL DOUBLE BOWL SINK (60/40) WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 9" BOWL DEPTH, RADIUS CORNERS, REAR SETBACK DRAIN OPENINGS, AND MOUNTING CLIPS. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR TO PROVIDE A 1/2" REVEAL INSTALLATION PROFILE.	PROVIDE WITH ELKAY MODEL LKAV2061 AVADO KITCHEN SINK BASE FAUCET WITH ADA COMPLIANT LEVER HANDLE AND PULL-OUT COIL SPRAY - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, BRASS VALVE BODIES, QUARTER TURN WASHERLESS CERAMIC DISV VALVES, 21" MULTI-SWIVEL SWING SPOUT, AND 1.8 GPM AERATOR. PROVIDE 1-1/2" LUSTRIOUS STEEL CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. FAUCET TO BE LUSTROUS STEEL FINISH ON ALL PARTS 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH GRID STRAINER DRAIN. PROVIDE WITH IN-SINK-ERATOR POWER MODEL .75HP, 3/4 HP GARBAGE DISPOSER AND ALL REQUIRED ACCESSORIES. ABOVE SINK MOUNTED TOGGLE SWITCH.	2" (2)	1-1/2"	1/2"	1/2"
S-1	STAINLESS STEEL SINGLE COMPARTMENT SINK	ELKAY	ELUHAD1916	UNDERCOUNTER MOUNTED, ASME A112.19.3 COMPLIANT, TYPE 304 (18-8) NICKEL BEARING STAINLESS STEEL SINGLE BOWL SINK WITH SATIN FINISH ON EXPOSED SURFACES AND SOUND DAMPENING UNDERCOATING APPLIED TO CONCEALED SURFACES. SINK SHALL HAVE 5-1/2" BOWL DEPTH, RADIUS CORNERS, REAR SETBACK DRAIN OPENING, AND MOUNTING CLIPS. COORDINATE COUNTERTOP CUTOUTS WITH GENERAL CONTRACTOR TO PROVIDE A 1/2" REVEAL INSTALLATION PROFILE.	PROVIDE WITH KOHLER MODEL K-7776-K-CP KITCHEN SINK BASE FAUCET WITH K-16012-4 ADA COMPLIANT LEVER HANDLES - FAUCET SHALL BE ASME A112.18.1 AND NSF 61 COMPLIANT. FAUCET TO INCLUDE ALL BRASS CONSTRUCTION, BRASS VALVE BODIES, QUARTER TURN WASHERLESS CERAMIC DISV VALVES, 8" MULTI-SWIVEL SWING SPOUT, AND 1.5 GPM AERATOR. PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEON. 1/2" CHROME-PLATED SUPPLIES WITH QUARTER-TURN STOPS AND WALL ESCUTCHEON. PROVIDE WITH GRID STRAINER DRAIN.	2"	1-1/2"	1/2"	1/2"
DF-1	NO-LEAD DUAL LEVEL SWIRLFLO DRINKING FOUNTAIN WITH INTEGRAL BOTTLE FILLING STATION	ELKAY	LZWS-LRPBM28K	HEAVY DUTY, FULLY EXPOSED, NSF-61 COMPLIANT, DUAL-LEVEL DRINKING FOUNTAIN WITH 18 GAUGE TYPE 300 STAINLESS STEEL BASINS AND 16 GAUGE TYPE 300 TUBULAR STAINLESS STEEL SUPPORT ARMS. FOUNTAIN SHALL BE NSF-61 COMPLIANT. PROVIDE WITH FRONT PUSH BUTTON ACTUATORS, VANDAL RESISTANT BUBBLERS, SURFACE MOUNTING PLATE, AND IN-WALL SUPPORT LEGS.	DRINKING FOUNTAIN TO BE PROVIDED WITH CANE APRON FOR ADA COMPLIANCE, FRONT ACCESS PANELS ON TOP AND BOTTOM OF UNIT. BOTTLE FILLER SHALL BE SENSOR ACTIVATED, 1.5 GPM FILL RATE, DRAIN SYSTEM TO ELIMINATE STANDING WATER, VISUAL USER INTERFACE, AUTO SHUTOFF, AND ANTI-MICROBIAL PROTECTION. PROVIDE WITH INTEGRAL WATER CHILLER CAPABLE OF 8 GPH AND 50°F DRINKING WATER BASED ON 90°F AMBIENT. COORDINATE ELECTRICAL REQUIREMENTS WITH E/C. PROVIDE WITH ELKAY MODEL EWF172 LEAD REDUCTION WATER FILTRATION KIT, WITH (1) SPARE REPLACEMENT FILTER FOR EACH KIT PROVIDED.	2"	1-1/2"	1/2" CHILLED DOMESTIC WATER TO FOUNTAIN & BOTTLE FILLER	
SH-1	SHOWER VALVE AND TRIM	TOTO	TSST	THERMOSTATIC MIXING VALVE WITH SHAPE MEMORY ALLOY, INTEGRATED SERVICE STOPS, 1/2" NPT CONNECTIONS, AND CORROSION RESISTANCE. UNIT SHALL BE COMPLIANT WITH ASME A112.18.1.	PROVIDE WITH VALVE TRIM TYPICAL OF TOTO 'LEGATO' MODEL TS624T - SOLID BRASS TEMPERATURE CONTROL TRIM WITH ANTI-SCALD SAFETY STOP, LEVER HANDLE, AND POLISHED CHROME FINISH. TRIM SHALL BE ASME A112.18.1 AND ADA COMPLIANT. PROVIDE WITH SINGLE SPRAY SHOWERHEAD TYPICAL OF TOTO 'LEGATO' MODEL TS624A - SOLID BRASS SHOWERHEAD WITH 2.5 GPM MAX FLOW RATE, 7.5"x5" SPARY FACE WITH RUBBER NOZZLES TO PREVENT LIMESCALE BUILDUP, AND PROVIDED COMPLETE WITH SHOWER ARM AND WALL ESCUTCHEON. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF ALL COMPONENTS.	-	-	1/2"	1/2"
JS-1	FLOOR MOUNTED TERRAZZO MOP SERVICE BASIN	FIAT	TSB100	FLOOR MOUNTED, 24"x24"x12" ONE PIECE PRECAST TERRAZZO MOP BASIN WITH STAINLESS STEEL CURB CAPS, STAINLESS STEEL DRAIN BODY WITH S.S. STRAINER, QUICK DRAIN CONNECTOR, STAINLESS STEEL TILING FLANGES, AND CHROME PLATED BRASS DRAIN.	PROVIDE WITH MOP SERVICE SINK FAUCET WITH 3/4" MALE HOSE THREAD, VACUUM BREAKER, INTEGRAL STOPS, AND PAIL HOOK (830AA), HOSE & HOSE BRACKET (832AA), STAINLESS STEEL WALL GUARDS, AND SILICONE SEALANT. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND UNIT MANUFACTURER REQUIREMENTS - ENSURE LEVEL INSTALLATION.	3"	1-1/2"	1/2"	1/2"
JS-2	FLOOR MOUNTED 'NEO-CORNER' TERRAZZO MOP SERVICE BASIN	FIAT	TSBC6010	FLOOR MOUNTED, 24"x24"x12" ONE PIECE NEO-CORNER PRECAST TERRAZZO MOP BASIN WITH STAINLESS STEEL CURB CAPS, STAINLESS STEEL DRAIN BODY WITH S.S. STRAINER, QUICK DRAIN CONNECTOR, STAINLESS STEEL TILING FLANGES, AND CHROME PLATED BRASS DRAIN.	PROVIDE WITH MOP SERVICE SINK FAUCET WITH 3/4" MALE HOSE THREAD, VACUUM BREAKER, INTEGRAL STOPS, AND PAIL HOOK (830AA), HOSE & HOSE BRACKET (832AA), STAINLESS STEEL WALL GUARDS, AND SILICONE SEALANT. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND UNIT MANUFACTURER REQUIREMENTS - ENSURE LEVEL INSTALLATION.	3"	1-1/2"	1/2"	1/2"
HB-1	HOSE BIB	WOODFORD	MODEL 24	ANTI-SIPHON VACUUM BREAKER WALL FAUCET WITH HOSE THREADS.	-	-	-	3/4"	-
FPWH	FREEZEPROOF WALL HYDRANT	WOODFORD	B65	NON-FREEZE, SELF DRAINING TYPE WITH POLISHED BRASS CONCEALING BOX AND DOOR, HOSE THREAD SPOUT, REMOVABLE KEY WITH EACH HYDRANT, AND VACUUM BREAKER.	PROVIDE WITH SPARE KEY FOR EACH HYDRANT PROVIDED.	-	-	3/4"	-
RH-1	FREEZE-PROOF ROOF HYDRANT	FREEZEFLOW	2131R	SELF CONTAINED DRAIN PROOF AND FREEZE PROOF ROOF HYDRANT WITH HEAVY DUTY BRASS HOSE BIBB WITH PAIL HOOK, 1" GALVANIZED SCHEDULE 40 STEEL PIPE RISER, STAINLESS STEEL DRAINAGE CANISTER, AND OPTIONAL BACKFLOW PREVENTION DEVICE. INSTALL WITH CANISTER AT MANUFACTURER REQUIRED DEPTH BELOW ROOF DECK.	-	-	-	3/4"	-
IMB	ICE MACHINE ROUGH-IN BOX	GUY GRAY	MIB1	20 GAUGE ROUGH-IN BOX WITH FACEPLATE. WHITE POWDER COAT ON COLD ROLLED STEEL FINISH.	PROVIDE WITH 1/2" QUARTER TURN SWEAT VALVE.	-	-	1/2"	-

REMARKS:
1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.
2. SIZES LISTED INDICATE MIN. SIZE ONLY, SEE PLUMBING RISERS AND FLOOR PLANS FOR LARGER SIZES.

PLUMBING FIXTURE SCHEDULE - DRAINAGE

TAG	TYPE	MANUFACTURER[3]	MODEL	DESCRIPTION	ACCESSORIES	CONNECTIONS[1,2] WASTE	VENT	CW	HW
MS-1	24"x24" JANITORS SINK	FIAT	TSB100	ONE PIECE PRECAST TERRAZO MOP SERVICE BASIN, 12" CONTINUOUS DEPTH. TERRAZO SHALL BE CONSTRUCTED TO A COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI, WITH POLISHED AND SEALED FINISH. BASIN TO BE INSTALLED ON MINIMUM 1/2" LAYER OF MORTAR FOR LEVELING, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS.	PROVIDE WITH STAINLESS STEEL STRAINER (#1453BB), QUICK DRAIN CONNECTORS, INTEGRAL TILING FLANGES, STAINLESS STEEL CAPS ON ALL SHOULDERS, WALL MOUNTED MOP SERVICE SINK WITH PAIL HOOK (830AA), HOSE AND HOSE BRACKET (832AA), SILICONE SEALANT (833AA) AND HEAVY GAUGE STAINLESS STEEL WALL GUARDS (MSG).	3"	1-1/2"	1/2"	1/2"
FD-1	FLOOR DRAIN (GENERAL SERVICE)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" DIAMETER STRAINER. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FD-2	FLOOR DRAIN (MECHANICAL AREAS)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND HEAVY DUTY STRAINER.	PROVIDE WITH 8" DIAMETER STRAINER AND ALL ACID RESISTING EPOXY COATING. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH TRAP PRIMER INLET CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
FD-3	FLOOR DRAIN (INDIRECT WASTE RECEPTOR)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" DIAMETER STRAINER WITH 4" DIAMETER FUNNEL. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FD-4	FLOOR DRAIN (CRITICAL AREAS)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'B' POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER.	PROVIDE WITH 6" STRAINER AND ALL ACID RESISTING EPOXY COATING. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH TRAP PRIMER INLET CONNECTION AND BACKWATER VALVE.	OUTLET SIZE PER PLAN	-	1/2"	-
FD-5	FLOOR DRAIN (SHOWER)	ZURN	Z-415	DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND TYPE 'S' DECORATIVE POLISHED STRAINER.	PROVIDE WITH 6"x6" SQUARE HEEL-PROOF STRAINER. PROVIDE TY SEALS FOR FLOOR DRAINS MOUNTED IN FLOORS ABOVE GRADE, VERIFY PIPE SIZES ON PLANS. PROVIDE WITH ASSE 1072 APPROVED TRAP SEALING INSERT TYPICAL OF SURESEAL SERIES SS - SIZE PER FLOOR DRAIN OUTLET.	OUTLET SIZE PER PLAN	-	-	-
FS-1	FLOOR SINK 12"x12" BODY (FULL GRATE)	ZURN	Z-1901	12"x12"x8" FLOOR RECEPTOR WITH DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS. WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, AND WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	PROVIDE WITH FULL SIZE GRATE, OUTLET SIZE TO MATCH CONNECTION SIZE NOTED ON PLAN, AND TRAP PRIMER CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
FS-2	FLOOR SINK 12"x12" BODY (3/4 GRATE)	ZURN	Z-1901	12"x12"x8" FLOOR RECEPTOR WITH DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH 1/2" SLOTTED OPENINGS. WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, AND WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER.	PROVIDE WITH 3/4 GRATE, OUTLET SIZE TO MATCH CONNECTION SIZE NOTED ON PLAN, AND TRAP PRIMER CONNECTION.	OUTLET SIZE PER PLAN	-	1/2"	-
TD-1	TRENCH DRAIN	ZURN	Z882-HDG	MODULAR TRENCH DRAIN CHANNELS CONSTRUCTED OF 72" LONG x 12" WIDE REVEAL WITH 9-1/4" THROAT. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 0% WATER ABSORBENT HIGH DENSITY POLYETHYLENE (HDPE). CHANNELS SHALL BE PRE-SLOPED. PROVIDE END PIPING CONNECTION.	PROVIDE WITH HEAVY DUTY LOAD CLASS E DUCTILE IRON SLOTTED GRATE, COMPLIANT WITH ASTM A536-84, AND LOCKABLE TO TRENCH. PROVIDE WITH REBAR CLIPS AND ASTM A123 COMPLIANT CONCRETE ANCHORS. PROVIDE WITH END OUTLET, SIZE AS NOTED ON PLAN, WITH STRAINER ON OUTLET.	OUTLET SIZE PER PLAN	-	-	-
RD	COMBO ROOF DRAIN	ZURN/FROET	100C	CAST IRON BODY COMBO PRIMARY/OVERFLOW ROOF DRAIN, VARIABLE DIAMETER BASED UPON OUTLET SIZE. PROVIDE WITH DECK CLAMP AND MINIMUM 5" HIGH DOME STRAINER AND OVERFLOW THRU DOME. ROOF DRAIN SHALL BE COMPLIANT WITH ASME A112.6.4. PROVIDE WITH DECK CLAMP, DECK PLATE	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE OVERALL DIAMETER OF DOME STRAINER. 3" AND 4" OUTLETS TO HAVE A 14" DIAMETER DOME STRAINER, 5" AND 6" OUTLETS TO HAVE A 18" DIAMETER DOME STRAINER. ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTLET AS NOTED ON PLAN			
ORD	WITH COMBO DRAIN ABOVE	-	200Cx	FURNISH WITH OVERFLOW WATER FLOW SENSOR TO BE INSTALLED IN OVERFLOW PIPING CONNECTING TO PRIMARY. SENSOR EQUAL TO ZURN F7000 WITH INTEGRAL BATTERY BACKUP, BMS INTERFACE, AND PIPE SIZE PER PLANS	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE OVERALL DIAMETER OF DOME STRAINER. 3" AND 4" OUTLETS TO HAVE A 14" DIAMETER DOME STRAINER, 5" AND 6" OUTLETS TO HAVE A 18" DIAMETER DOME STRAINER. ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTLET AS NOTED ON PLAN			
SD	SIDEWALL SCUPPER DRAIN	ZURN	Z-187	DURA-COATED CAST IRON BODY WITH OBLIQUE ALUMINUM GRATE WITH 90 DEG COMBINATION FRAME AND MEMBRANE FLASHING CLAMP, AND SIDE OUTLET PIPE SIZE PER PLANS (4").	PROVIDE WITH OUTLET SIZE AS NOTED ON PLAN. OUTLET SIZE TO DETERMINE SIZE OF OBLIQUE STRAINER.ROOF DRAIN SHALL HAVE A 25 YEAR WARRANTY.	OUTLET AS NOTED ON PLAN			
DB	DOWNSPOUT BOOT	ZURN	Z-191-RD	DURA-COATED CAST IRON BODY WITH ROUND INLET AND OUTLET AND STRAP WITH 1/4" DIA. CAST HOLES FOR FLAT HEAD BOLTS, AND INLET/OUTLET PIPE SIZE PER PLANS (4").	PROVIDE WITH INLET/OUTLET SIZE AS NOTED ON PLAN (4"). OVERALL HEIGHT OF BOOT 18" DRAIN SHALL HAVE A 25 YEAR WARRANTY. FURNISH WITH CLEANOUT ACCESS WITH PLUG AND NO-HUB CONNECTIONS.	OUTLET AS NOTED ON PLAN			
FGCO	FINISHED GRADE CLEANOUT	ZURN	Z-1400-HD	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR. CAST IN CONCRETE PER DETAIL.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
FCO	FINISHED FLOOR CLEANOUT	ZURN	Z-1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
WCO	WALL CLEANOUT	ZURN	Z-1446	CLEANOUT TEE, DURA COATED CAST IRON BODY, GAS AND WATERTIGHT, ABS TAPERED THREAD PLUG AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.	CLEANOUT SHALL BE THE SAME SIZE AS PIPING UP TO 4". 4" AND LARGER PIPING SHALL BE A 4" CLEANOUT.	-	-	-	-
DSN	DOWNSPOUT NOZZLE	ZURN	ZANB-199	ALL NICKLE BRONZE BODY DOWNSPOUT NOZZLE, WITH OPTIONAL THREADED OR NO-HUB INLET AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	-	SIZE TO MATCH ROOF DRAIN PIPING NOTED ON PLAN			

REMARKS:
1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.
2. SIZES LISTED INDICATE MIN. SIZE ONLY, SEE PLUMBING RISERS AND FLOOR PLANS FOR LARGER SIZES.
3. ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE HAWS, CHICAGO FAUCET, HALSEY TAYLOR, JOSAM, JR SMITH, WADE, ROCKFORD, TOTO, AND OASIS

TANKLESS WATER HEATER SCHEDULE (RACK SYSTEM)

MARK	MFR	MODEL	LOCATION	ENERGY FACTOR	TYPE	MIN. NG PRESS. ("W.C.)	MAX. NG PRESS. ("W.C.)	MIN. INPUT (mbh)	MAX. INPUT (mbh)	TEMP SETTING (°F)	GPM @ 70°F RISE	VOLT/PH/HZ	ACCESSORIES
WH-1/2	AO SMITH	ACI-CRS-23WM-N	MECH RM	0.95	NAT. GAS	5.0	10.5	15,000	398,000	120	10.8	120/1/60	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

ACCESSORIES:
1. CONCENTRIC VENT TERMINATION KIT.
2. GAS SHUTOFF VALVE.
3. INTERNAL TEMPERATURE CONTROLLER WITH ON-BOARD DIAGNOSTICS.
4. 120V POWER CORD (MIN. 10 FT LENGTH).
5. ISOLATION VALVE KIT.
6. WATER FILTER.
7. SUITABLE FOR COMMERCIAL USAGE.
8. HRS35 PRIMARY HEAT EXCHANGER, 316L STAINLESS SECONDARY HEAT EXCHANGER.
9. ELECTRONIC IGNITION.
10. AFR SENSOR, EXHAUST & WATER TEMP SAFETY CONTROL, AND OVERHEAT SHUTOFF FUSE.
11. NEUTRALIZER KIT.
12. SUITABLE FOR PVC/CPVC VENTING.
13. 10 YEAR HEAT EXCHANGER WARRANTY, 5 YEAR WARRANTY ON ALL OTHER COMPONENTS.
14. ANSI Z21.22 COMPLIANT PRESSURE RELIEF VALVE, RATED FOR A MAXIMUM OF 150 PSI.
15. AT CONTRACTOR'S OPTION, COMMON VENTING MAY BE INSTALLED, GIVEN EACH WATER HEATER IS PROVIDED WITH A NON-RETURN VALVE. COMMON VENTING SHALL BE SIZED AND INSTALLED PER UNIT MANUFACTURER'S REQUIREMENTS.

RECIRCULATION PUMPS

MARK	LOCATION	SERVES	GPM	HEAD (FT)	HP	EFF. %	VOLT	RPM	TYPE	MANUFACTURER	SERIES	MODEL	REMARKS
RP-1	MECH RM	WH-1&2	2.0	20	1/6	N/A	120/1	3300	INLINE	BELL & GOSSETT	ECOCIRC	-	-

REMARKS:
1.

BACKFLOW PREVENTOR SCHEDULE

MARK	LOCATION	MFG	MODEL	TYPE	SERVES	BFP SIZE	DRAIN SIZE	LINE SIZE	REMARKS
BFP-1	MAIN MECH ROOM	WATTS	707DCDA	DOUBLE CHECK DETECTOR	FIRE SERVICE	4"	N/A	4"	3,4,5
BFP-2	MECHANICAL ROOM 109	WATTS	009	REDUCED PRESSURE ZONE	WATER SERVICE	2-1/2"	2-1/2"	2-1/2"	1,3,4,5
BFP-3	KITCHEN	WATTS	007	DOUBLE CHECK VALVE	ICE MAKER	1/2"	N/A	1/2"	3,4,5

REMARKS:
1. PROVIDE WITH MANUFACTURER REQUIRED AIRGAP, EXTEND FULL SIZE DRAIN PIPING TO TERMINATE AT NEAREST FLOOR DRAIN.
2. COORDINATE CONFIGURATION WITH SPACE LIMITATIONS PRIOR TO ORDERING.
3. PROVIDE WITH "Y" TYPE STRAINER.
4. PROVIDE WITH UNION END BALL VALVES ON ASSEMBLY.
5. PROVIDE AND INSTALL PER DETAIL.

PIPING MATERIAL SCHEDULE

SYSTEM	PIPING SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	FITTINGS MAT.	FITTINGS TYPE	MAX. WORKING PRESS (PSI)	MAX. WORKING TEMP (°F)	FIELD TEST PRESS (PSI)	FIELD TEST TIME
DOMESTIC WATER ABOVE GRADE	ALL	L	--	--	B88	CP	CP	SJ	120	40-180	150	1 HR
DOMESTIC WATER BELOW GRADE	ALL	K	--	--	B88	CP	CP	SJ	120	40-180	150	1 HR
CONDENSATE DRAIN ABOVE GRADE	ALL	M	--	--	B88	CP	CP	DR\S	10FT	40-70	10FT	1 HR
FIRE PROTECTION	ALL				PER	NFPA	13	AND	14		200	2 HR
FIRE SERVICE BELOW GRADE	ALL	CL150	--	--	C900	PVC	DI	MJ	120	40-80	200	2 HR
REFRIGERANT PIPING	ALL	ACR	--	--	B280	CP	CP	S	150	40-140	200	4 HR
ROOF DRAIN BELOW GRADE	ALL	DMV	40	--	2665	PVC	PVC	DR\SW	10 FT	40-80	10 FT	1 HR
ROOF DRAIN ABOVE GRADE	ALL	NH	SS	--	A74	CI	CI	DR\NH	10 FT	40-180	10 FT	1 HR
TEMPERATURE & PRESSURE RELIEF DRAIN	ALL	M	--	--	B88	CP	CP	DR\S	10FT	40-70	10FT	1 HR
NATURAL GAS ABOVE GRADE	0.5"-2.5"	SL/CW	40	A	A53	CS/BLK	CS	THRD	1	-	100	1 HR
NATURAL GAS ABOVE GRADE	ABOVE 3"	SL/CW	40	A	A53	CS/BLK	CS	THRD	1	-	100	1 HR
NATURAL GAS BELOW GRADE	ALL	REFER TO NOTE 1 BELOW										
WASTE BELOW GRADE	ALL	DWV	40	--	2665	PVC	PVC	DR\SW	10 FT	40-80	10 FT	1 HR
WASTE & VENT ABOVE GRADE	ALL	NH	SS	--	A74	CI	CI	DR\NH	10 FT	40-180	10 FT	1 HR

NOTES:
1. BURIED GAS PIPING SHALL BE DRISCOPLEX 6500 PE2406, SDR11, POLYETHYLENE WITH #12 COPPER TRACER WIRE AND ANODELESS RISERS WHERE RISING ABOVE GRADE.

ATP - ARMCO TRUSS PIPE
BLK - BLACK
BS - BELL & SPIGOT
CI - CAST IRON
CP - COPPER
CS - CARBON STEEL
CTD - PIPE LINE SERVICE COMPANY X-TRU-COAT HIGH DENSITY POLYETHYLENE COATING EXTRUDED OVER PIPE
CW - CONTINUOUS WELD
DI - DUCTILE IRON
DR - DRAINAGE FITTING
GLV - GALVANIZED
LC - LEAD CAULKING
MI - MALLEABLE IRON
MJ - MECHANICAL JOINT
NG - NEOPRENE GASKET
NH - NO-HUB
PE - POLYETHYLENE
PVC - POLYVINYL CHLORIDE
S - BRAZED JOINT - SILVER BRAZING ALLOY
SJ - SOLDER JOINT 95-5 TIN-ANTIMONY
SL - SEAMLESS STEEL
SS - STANDARD STRENGTH - SERVICE WEIGHT
SW - SOLVENT WELD
TS - TY-SEAL
THRD - THREADED
VCP - VITRIFIED CLAY PIPE
WELD - WELDED
XH - EXTRA HEAVY

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI CORY WILSON 11.26.2024 NUMBER PE-2010009876 PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

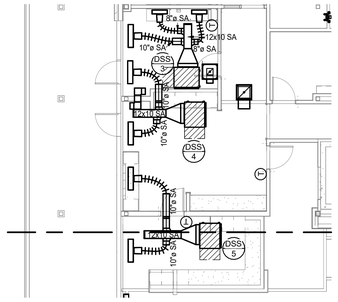
PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

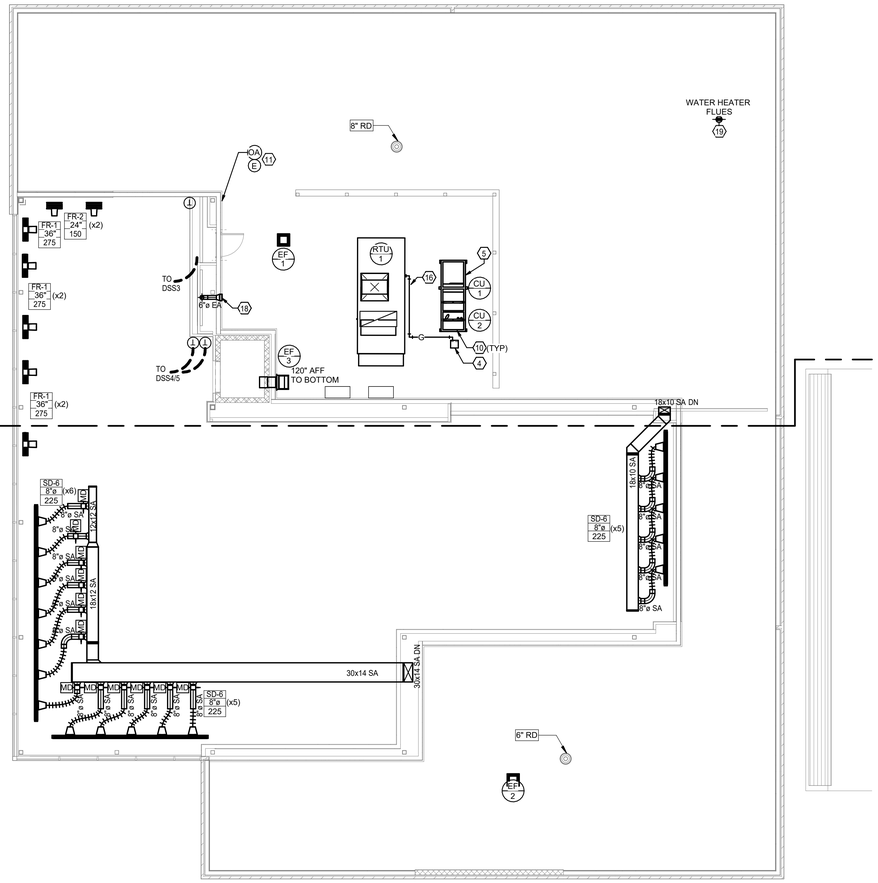
PLUMBING SCHEDULES

P-500

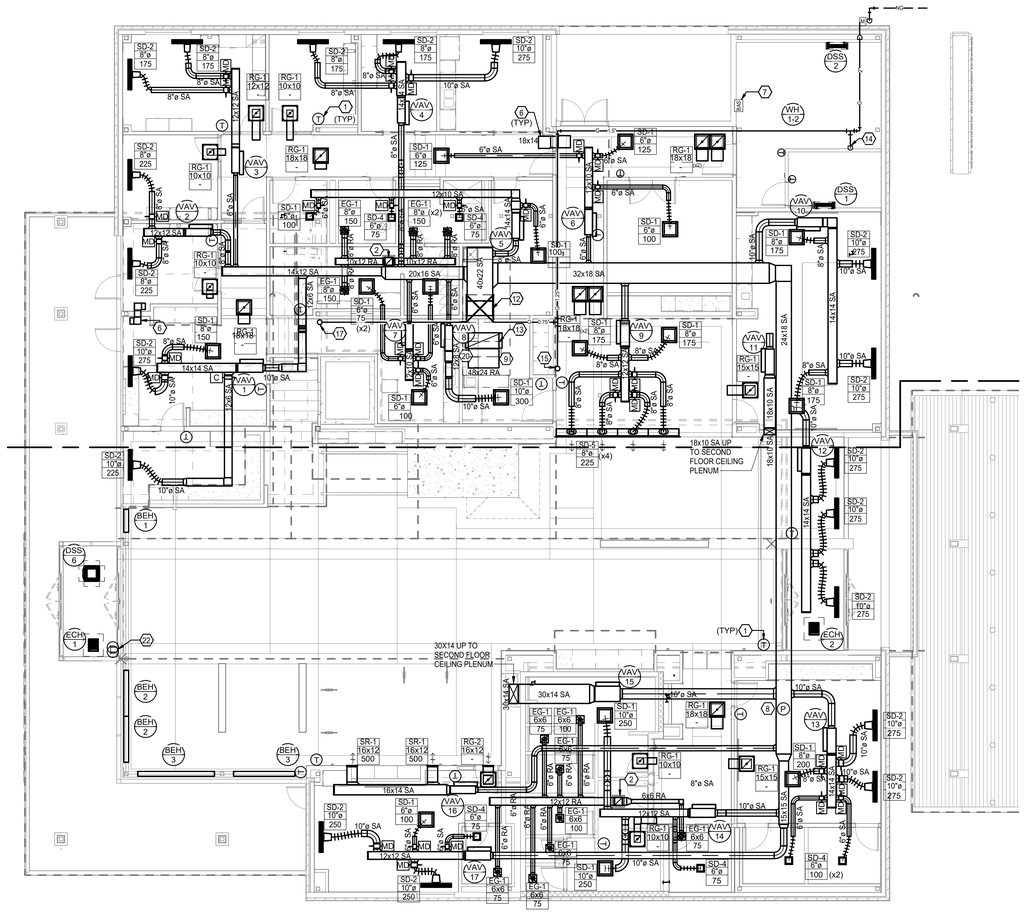
8/11/2024 10:09:20 PM



MEZZANINE BELOW
1/8" = 1'-0" 3



MECHANICAL PLAN - LEVEL 2
1/8" = 1'-0" 2



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

MECHANICAL PLAN NOTES

1. WHEREVER A THERMOSTAT SYMBOL IS SHOWN, PROVIDE PROVIDE DDC TEMPERATURE SENSOR WITH DIGITAL SCREEN, TEMPERATURE ADJUSTMENT, AND OVERRIDE. SENSOR SHALL CONNECT TO VAV CONTROLLER PER P&IDS.
2. 12x12 EXHAUST AIR UP TO EXHAUST FAN ON ROOF.
3. REFER TO REFRIGERANT CONNECTIONS DETAIL FOR INSTALLATION OF ALL LIQUID/SUCTION LINE INSTALLATIONS TO ALL INDOOR UNITS. ALL REFRIGERANT PIPING TO BE BRAZED ACR TYPE WITH INSULATION WRAP AND JACKETING.
4. PATE PIPE HOOD PH-1 ON CURB FOR REFRIGERANT PIPING AND CONDUITS.
5. FURNISH PATE BASE RAILS FOR SUPPORTING VRF CONDENSING UNITS AND ASOS ANTENNAE.
6. TYPICAL Z-DUCT TRANSFER GRILLE. ANY TRANSFER DUCTWORK SHALL HAVE ARMACELL LINING (FIBER-FREE).
7. BMS TEMPERATURE CONTROL PANEL LOCATION. FROM NETWORK RACK ROUTE CAT-6 ETHERNET TO THIS LOCATION.
8. LOCATION OF DUCT MOUNTED STATIC PRESSURE SENSOR FOR VFD CONTROL.
9. FOR VAV RTU, FURNISH RA DUCT DETECTOR WITH FAN SHUTDOWN RELAY AND CONNECT TO FIRE ALARM SYSTEM.
10. REFER TO REFRIGERATION DIAGRAM FOR ALL VRF LIQUID/SUCTION PIPING FROM OUTDOOR CONDENSING UNIT TO INDOOR UNITS. ALL PIPING SHALL BE BRAZED ACR WITH 1" FIBERGLASS JACKETED INSULATION AND PVC COVERS AT ALL FITTINGS.
11. ON UPPER ROOF INSTALL ON BACKBOX OUTSIDE AIR AND ENTHALPY SENSORS FOR BMS SYSTEM CONTROL.
12. 40x22 SUPPLY AIR DUCTWORK UP TO RTU. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO MATCH UNIT OPENING.
13. 48x24 RETURN AIR DUCTWORK UP TO RTU. PROVIDE FLEXIBLE CONNECTION AND TRANSITION TO MATCH UNIT OPENING.
14. 1.25" GAS PIPING DOWN TO WATER HEATERS. REFER TO WATER HEATER ELEVATION. TEE TO BOTH HEATERS. PROVIDE INDIVIDUAL SHUT-OFF VALVES, UNION, AND DIRT LEG.
15. 1.25" GAS PIPING UP TO ROOFTOP UNIT. COME UP THRU PATE PIPE CURB, USE MIRO OR EQUAL PILLOWBLOCK SUPPORTS.
16. 1.25 GAS PIPING CONNECTED TO RTU. PROVIDE GAS COCK, DIRT LEG, AND UNION. ALL GAS PIPING PAINTED WITH EPOXY YELLOW ON ROOF.
17. 0.75" GAS UP TO FIREPLACE WITHIN BASE. PROVIDE GAS COCK, DIRT LEG, AND UNION.
18. TYPE B SIDEWALL VENT FROM GAS FIREPLACE. INSTALL 6" VENT PER MANUFACTURER'S INSTRUCTIONS TO ROOF VENT. MAINTAIN ALL REQUIRED EXTERIOR CLEARANCES.
19. ROOF MOUNTED CONCENTRIC VENT TERMINATION KIT, PROVIDED WITH WATER HEATER. COORDINATE INSTALLATION REQUIREMENTS WITH GENERAL CONTRACTOR, INSTALL PER UNIT MANUFACTURER REQUIREMENTS.
20. OVEN RECIRC HOOD PER ARCH EQUIPMENT PLAN.
21. MD DIAGRAMMATICALLY SHOWN ON PLANS IS FOR MANUAL BALANCING DAMPERS AT TAKE-OFF (TYPICAL).
22. CEILING HEATER AND VRF TSTAT MOUNTED TO SIDE OF METAL CHANNEL ABOVE SLIDING DOOR ASSEMBLY (102"). ALL LOW VOLATGE CABLING TO BE FISHED THRU MULLION ASSEMBLUES TO ABOVE VESTIBULE CEILING.

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CORY WILSON
11.26.2024
NUMBER PE-2010005876
PROFESSIONAL ENGINEER

11-25-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	CMW
DRAWN BY:	MR
CHECKED BY:	CMW
APPROVED BY:	APPROVER
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SHEET TITLE

1ST FLOOR & MEZZANINE MECHANICAL PLANS

M-100

SHEET OF

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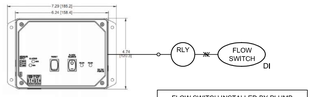
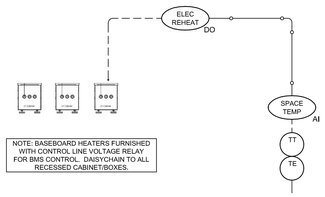
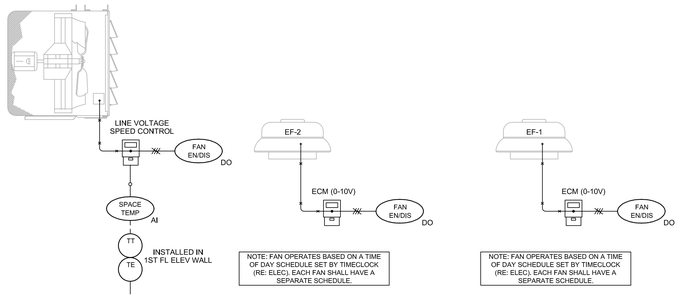


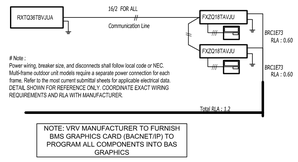
5 ROOF DRAIN MONITORING
SCALE: NONE



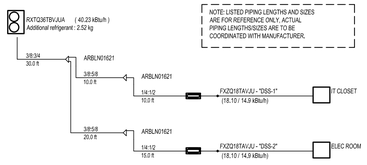
5 BASEBOARD HEATING CONTROL DIAGRAM
SCALE: NONE



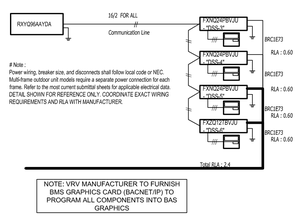
6 EXHAUST FAN CONTROL DIAGRAM
SCALE: NONE



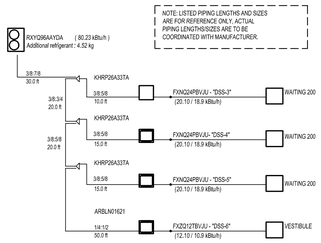
SPLIT SYSTEM WIRING DIAGRAM CU-2



SPLIT SYSTEM PIPING DIAGRAM CU-2

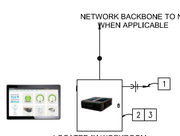


SPLIT SYSTEM WIRING DIAGRAM CU-1



SPLIT SYSTEM PIPING DIAGRAM CU-1

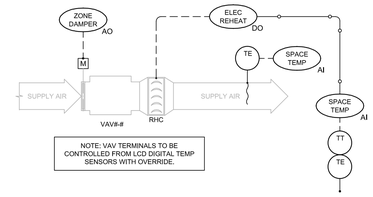
4 VRV HVAC TYPICAL EQUIPMENT DETAILS
SCALE: NONE



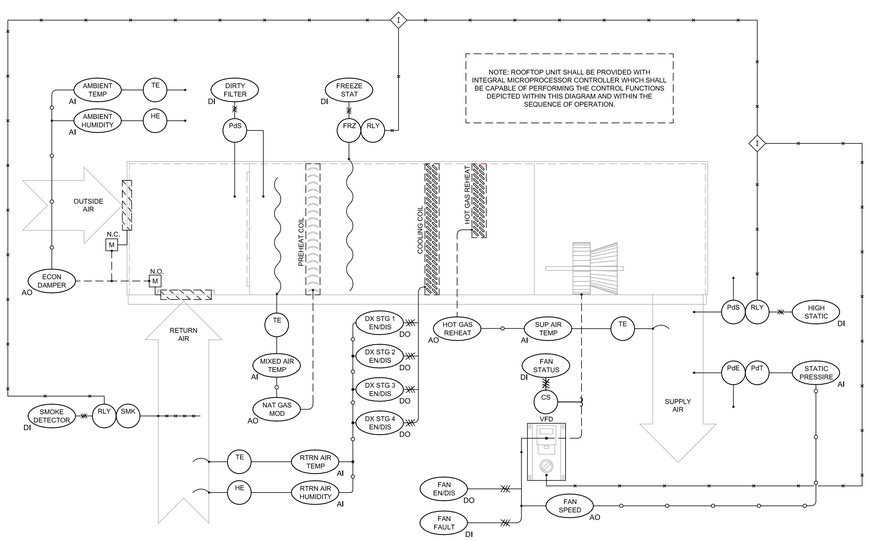
NOTES

1. 120 VAC PROVIDED BY E.C. CONTROLS CONTRACTOR TO COORDINATE WITH E.C. ON ALL NEW ENCLOSURE LOCATIONS.
2. CONTRACTOR TO PROVIDE ALL NEW CONTROL ENCLOSURES. NO EXISTING ENCLOSURES ARE TO BE REUSED. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE AND INSTALL NEW ENCLOSURES.
3. ALL VAV & FAN POWERED BOX ASC'S ARE TO BE POWERED FROM TRANSFORMERS HOUSED IN NEW ENCLOSURES OR SOME OF THE FPB/VAV'S MAY BE PROVIDED WITH CONTROL TRANSFORMER BY MANUFACTURER, TCC TO COORDINATE WITH M/C. MULTIPLE CONTROLLERS CAN BE POWERED OFF OF A SINGLE TRANSFORMER, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ENCLOSURES, TRANSFORMERS, AND ALL LOW VOLTAGE WIRING INCLUDING 24 VAC, NETWORK, AND CONTROL WIRING.

3 CONTROL ENCLOSURES
NOT TO SCALE



2 VAV TERMINAL CONTROL DIAGRAM
SCALE: NONE



1 PACKAGED ROOFTOP UNIT CONTROL DIAGRAM
SCALE: NONE

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1701 WALNUT STREET, SUITE 300
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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009878
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

CONTROLS DIAGRAMS

M-300

SHEET 88 OF 102

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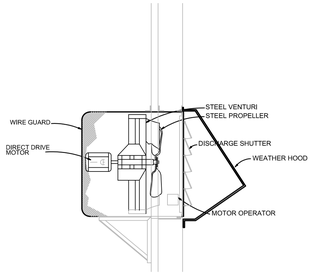
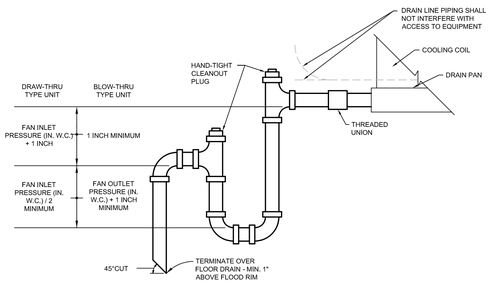
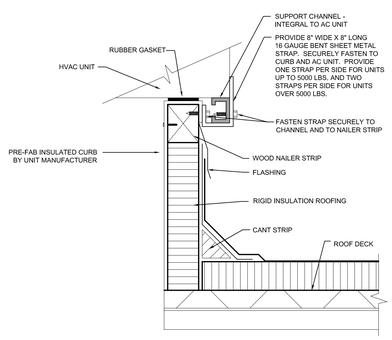


9 WALL PROP EXHAUST FAN DETAIL
SCALE: NONE



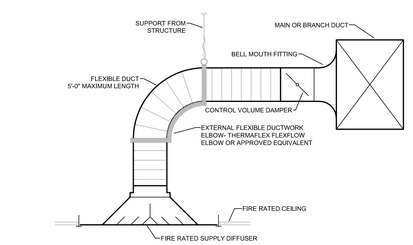
NOTES:
1. FOR EQUIPMENT WITHOUT INTERNAL CONDENSATE TRAPS.
2. PIPING TO BE PER SCHEDULE

8 CONDENSATE TRAP DETAIL
SCALE: NONE



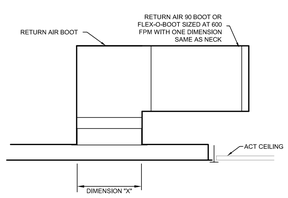
NOTES:
1. UTILIZE MANUFACTURERS CURB SUITABLE FOR METAL ROOF OR "THY-CURB" OR APPROVED CURB.
2. COORDINATE EXACT DETAIL WITH HVAC UNIT MANUFACTURER.

7 RTU CURB ATTACHMENT
SCALE:

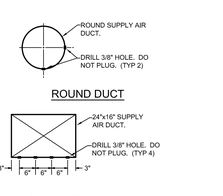


5 EXHAUST FAN DETAIL
SCALE: NONE

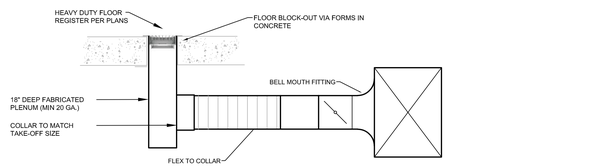
4 CEILING DIFFUSER DETAIL
SCALE: NONE



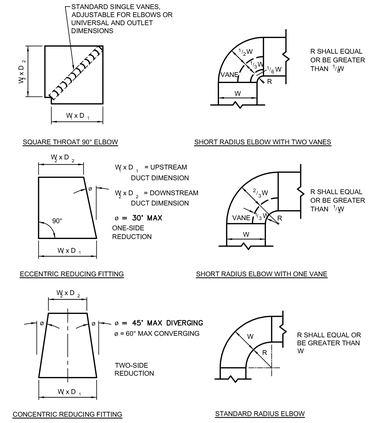
6 RETURN BOOT DETAIL
SCALE: NONE



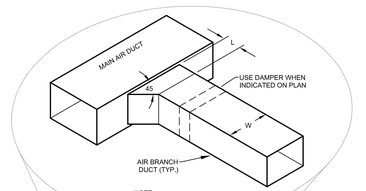
3 DUCT TRAVERSE DETAIL
SCALE: NONE



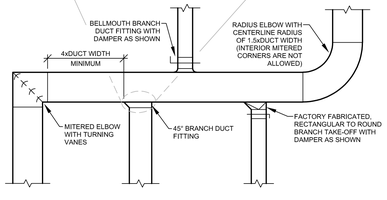
10 FLOOR REGISTER DETAIL
SCALE: NONE



2 SHEET METAL FITTINGS
SCALE: NONE



NOTE:
L = 1/4W (4" MIN.)



1 DUCTWORK CONSTRUCTION DETAIL
SCALE: NONE

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI · CORY WILSON · NUMBER PE-2010009878 · PROFESSIONAL ENGINEER
11.26.2024

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LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
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APPROVED BY:	Approver
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SHEET TITLE

MECHANICAL DETAILS

M-400

SHEET 89 OF 102

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PACKAGE ROOFTOP UNIT SCHEDULE

MARK	SERVES	SUPPLY FAN				ELECTRICAL DATA			HEATING DATA (GAS)				EVAPORATOR DATA					REHEAT COIL		MANUFACTURER & MODEL	ACCESSORIES
		CFM	MIN OA	ESP("WC)	HP	VOLT/PH/HZ	MCA	MOCP	INPUT MBH	OUTPUT MBH	E.A.T.	L.A.T.	COIL ROW/FPI	GROSS CAPACITY TMBH	GROSS CAPACITY SMBH	EAT DB/WB	LAT DB/WB	REF. TYPE	CAP MBH	LAT DB/WB		
RTU-1	LS TERMINAL BUILDING	11000	1600	1.85	5.0	208/3/60	199	250	450	400	60	90	6/12	375	305	80/66	54.5/54	R-32	-	-/-	DAIKIN DPSC31B (30-TON VAV)	VFD,TB,DM,DD,R,CR,CG,AD,IB,PBP,DSC,EC,SS,HF(MERV13),T

ABBREVIATIONS:
- TB - THRU THE BASE ELECTRICAL
- DM - FACTORY INSTALLED DISCONNECT
- VFD - VARIABLE FREQ. DRIVE EC SUPPLY FAN
- OA - MINIMUM OUTSIDE AIR
- DD - DUCT DETECTOR IN RETURN AIR DUCTWORK WITH FAN SHUT-DOWN RELAY BY E/C
- R - R410A REFRIGERANT
- CR - FACTORY POWERED GFI OUTLET
- CG - COIL HAIL GUARDS
- AD - HINGED ACCESS DOORS
- IB - INSULATED BASE, NO ROOF CURB REQUIRED
- MD - MODULATING OUTDOOR AIR DAMPER CONTROLLED BY CO2 SENSOR
- PCK - PROPANE CONVERSION KIT
- DSC - DIGITAL SCROLL COMPRESSORS
- PBP - PHASE AND BROWN OUT PROTECTION
- MP - MICRO-PROCESSOR CONTROLS INTERFACE
- CO - CARBON DIOXIDE CONTROL OF MODULATING OUTDOOR AIR DAMPER WITH CARBON DIOXIDE SENSOR INSTALLED IN RA DUCTWORK
- EC - ENTHALPY CONTROLLED ECONOMIZER WITH POWERED RELIEF
- FE - GAS FLUE STACK EXTENSION BY M/C.
- PC - PLENUM CURB FOR HORIZONTAL DISCHARGE
- SS - STAINLESS STEEL HEAT EXCHANGER
- HF - HIGH EFFICIENCY THROWAWAY FILTER (MERV 13)
- LL - LOW LEAK OUTSIDE AIR DAMPER
- RH - DEHUMIDIFICATION REHEAT COIL
- HG - HOT GAS BYPASS
- T - 7-DAY PROGRAMMABLE, AUTO-CHANGEOVER, TOUCHSCREEN DISPLAY, 2 COOL/3 HEAT STAGE THERMOSTAT BY AAON (OR UNIT MANUFACTURER). WHITE ROGERS, HONEYWELL (I.E. WHITE ROGERS 1F95-1271)
- DDC- REFER TO P&ID FOR DDC CONTROLS

NOTES:
1. ALL TEMPERATURE WIRING TO BE PROVIDED AND INSTALLED BY M/C

APPROVED MANUFACTURERS (BASE BID)
AAON
DAIKIN APPLIED
YORK

CONTRACTOR NOTE:
UNIT SELECTED BY TMI, INC. TAYLOR SHEPHERD, TAYLOR.SHEPHERD@TMI-KC.COM AND MECHANICAL CONCEPTS.

CONTROLS NOTE:
CONTRACTOR SHALL INCLUDE DDC DIAKIN APPLIED INTELLIGENT SYSTEMS CONTROL MANAGER OR EQUAL WITH BACNET TOUCH SCREEN PANEL, CENTRAL CONTROL OF ALL VAV BOXES AND RTU, 7-DAY SCHEDULING. IT SHALL INCLUDE REMOTE MONITORING VIA LOCAL NETWORK, PC, SMARTPHONE, ETC. VENDOR SHALL INCLUDE CHECK, TEST, AND STARTUP. ROUTE FROM CAT-6 PATCH PANEL ETHERNET CABLING UP TO UNIT RJ45 CONNECTION ON CONTROLLER WITHIN UNIT AND AT CONTROLLER. WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, CONTROL PANEL, ALL TEMPERATURE CONTROL WIRING, TEMPERATURE SENSORS, RTU FACTORY MOUNTED CONTROLLER, OUTDOOR AIR SENSOR, ETHERNET CONNECTION INTERFACE, APP STORE CONNECTIVITY, AND SOFTWARE PACKAGE.

BUILDING OCCUPANTS/OUTSIDE AIR CALCS

UNIT DESIGNATION	ROOM NO.	ROOM DESIGNATION	AREA (FT2)	SPACE CLASSIFICATION	OCCUPANTS PER 1000 SF [2]	ZONE OCCUPANTS	OUTDOOR AIR RATE CFM/PERSON [2]	OUTDOOR AIR RATE CFM/FT2 [2]	OUTDOOR AIR TO ZONE (CFM)	MINIMUM OA FOR UNIT(S)	NOTE
RTU-1	-	OFFICE SPACES	1475	OFFICE SPACE	5	12	5	0.06	150	1600 (14%)	
	-	CONCOURSE AREAS	2600	RECEPTION AREAS	30	78	5	0.06	468		
	-	LOUNGES/WAITING	1000	LOUNGE	30	30	5	0.06	210		
	-	CAFE/VENDING/BREAKROOM	1320	BREAKROOM	30	40	5	0.12	360		
	-	MECHANICAL/STORAGE/TOILET	903	STORAGE	-	-	-	0.12	100		
	-	CONFERENCE ROOMS	570	CONFERENCE ROOMS	50	26	5	0.06	193		
	-	LOBBIES/CORRIDOR	829	CORRIDOR	-	-	-	0.06	52		

NOTES:
1. ROOM DESIGNATIONS AND SPACE CLASSIFICATIONS ARE PRELIMINARY AND BASED UPON THE ASSUMED INTENDED USE OF THE SPACE. UPON TENANT INFILL PHASE, ACTUAL SPACE USAGE, AREA, AND OCCUPANCY SHALL BE USED TO CALCULATE OUTSIDE AIR REQUIREMENTS. ASSUMED INTENDED USE OF SPACE INCLUDES GENERAL OFFICE SPACE INCLUDING ENTRY LOBBY, RECEPTION AREA, AND CONFERENCE AREAS. SHOULD ACTUAL USE OF SPACE DIFFER, AS DICTATED BY TENANT INFILL PLANS, ADDITIONAL MEANS OF VENTILATION MAY BE REQUIRED FOR COMPLIANCE WITH INTERNATIONAL MECHANICAL CODE AND ASHRAE 62 GUIDELINES.
2. BASED UPON 2012 INTERNATIONAL MECHANICAL CODE, TABLE 403.3, DEFAULT VALUES.

HVAC PIPING MATERIAL SCHEDULE

PIPING							FITTINGS		MAX. WORKING		FIELD TEST	
SYSTEM	SIZE	TYPE	SCH	GRD	ASTM	MATERIAL	MAT.	TYPE	PRESS (PSI)	TEMP (°F)	PRESS (PSI)	TIME
CONDENSATE DRAIN ABOVE GRADE	ALL	M	--	--	B88	CP	CP	DR/S	10FT	40-70	10FT	1 HR
REFRIGERANT PIPING	ALL	ACR	--	--	B280	CP	CP	S	150	40-140	200	4 HR

- ATP - ARMCO TRUSS PIPE
- BLK - BLACK
- BS - BELL & SPIGOT
- CI - CAST IRON
- CP - COPPER
- CS - CARBON STEEL
- CW - CONTINUOUS WELD
- DI - DUCTILE IRON
- DR - DRAINAGE FITTING
- GLV - GALVANIZED
- LC - LEAD CAULKING
- MI - MALLEABLE IRON
- MJ - MECHANICAL JOINT
- NG - NEOPRENE GASKET
- NH - NO-HUB
- PE - POLYETHYLENE
- PVC - POLYVINYL CHLORIDE
- S - BRAZED JOINT - SILVER BRAZING ALLOY
- SJ - SOLDER JOINT 95-5 TIN-ANTIMONY
- SL - SEAMLESS STEEL
- SS - STANDARD STRENGTH - SERVICE WEIGHT
- SW - SOLVENT WELD
- THRD - THREADED
- WELD - WELDED

NOTE: NO "PULLED TEES" ALLOWED ON COPPER PIPING.

BUILDING AIR BALANCE SCHEDULE

MARK	SUPPLY AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	RETURN AIR CFM	PRESSURIZATION AIR CFM
RTU-1	11000	1500	1175	9825	+325
TOTALS	11000	1500	1175	9825	+325

OUTDOOR AIR JUSTIFICATION:
SEE BUILDING OCCUPANTS SCHEDULE

NOTES:
1. UNIT OUTSIDE AIR IS FIXED BY MINIMUM POSITION ON OUTSIDE AIR DAMPER. POWERED RELIEF WILL BE CONTROLLED BY SPACE STATIC PRESSURE SENSOR.

WALL UNIT HEATER

MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
WH-1	REAR EXIT	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL

REMARKS:
1. PROVIDE DISCONNECT SWITCH.
2. WALL BRACKET.
3. ALL OTHER HARDWARE FOR COMPLETE INSTALLATION.

DUCT PRESSURE CLASS

SYSTEM/FAN	LOCATION/DUCT INVOLVED	POSITIVE OR NEGATIVE PRESSURE	PRESSURE CLASS (IN W.G.)	DUCTWORK TYPE	INSULATION TYPE/THICKNESS (IN)
RTU-1	RECTANGULAR SUPPLY/EXHAUST	POS/NEG	4"	TDC FLANGED	1" THICK 1.5 LB/FT^3 1" THICK
RTU-1	ROUND SUPPLY/EXHAUST	POS/NEG	4"	SPIRAL	1" THICK 1.5 LB/FT^3 1" THICK

NOTES:
1. WHERE NOTED AS DUCTWORK WRAP, REFER TO SPECIFICATIONS FOR MAKE, DENSITY, R-VALUE
2. THIS SCHEDULE REFERS TO NEW DUCT ONLY.

DUCT PRESSURE CLASS

SMACNA LEAKAGE CLASS

1" OR 2" PRESSURE CLASS	SEAL CLASS "C"	TRAVERSE JOINTS ONLY APPLICABLE SEALING	RECT - 24	ROUND - 12
3" PRESSURE CLASS	SEAL CLASS "B"	TRAVERSE JOINTS AND SEAMS APPLICABLE SEALING	RECT - 12	ROUND - 6
4", 6" OR 10" PRESSURE CLASS	SEAL CLASS "A"	TRAVERSE JOINTS, SEAMS, AND ALL WALL PENETRATIONS	RECT - 6	ROUND - 3

APPLICATION / INSULATION

SYSTEM	DESCRIPTION
RTU-1	DUCT WRAP
RETURN	ARMACELL ACCOUSTIC FIBER-FREE LINER

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	MAKE	MODEL	INLET	OUTLET SIZE	AIRFLOW		HTG COIL (ELECTRIC)					PRESSURE	CONTROLS		NC	ACCESSORIES
					CLG/MIN	HTG	EAT	LAT	VOLT/PH	KW/STAGE	MOCP	ISP	ESP	TYPE	DIAG	
VAV-1	DIAKIN	MQTH15	10"Ø	14x10	650/125	500	60	90	208/1	5.0/2	35	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-2	DIAKIN	MQTH15	8"Ø	12x10	450/100	375	60	90	208/1	4.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-3	DIAKIN	MQTH15	6"Ø	12x10	375/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-4	DIAKIN	MQTH15	10"Ø	14x10	625/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-5	DIAKIN	MQTH15	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-6	DIAKIN	MQTH15	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-7	DIAKIN	MQTH15	6"Ø	12x10	350/75	300	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-8	DIAKIN	MQTH15	6"Ø	12x10	300/75	250	60	90	208/1	2.5/2	20	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-9	DIAKIN	MQTH15	12"Ø	16x14	1550/300	1250	60	90	208/3	12.0/SCR	50	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-10	DIAKIN	MQTH15	10"Ø	14x10	900/200	750	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-11	DIAKIN	MQTH15	12"Ø	16x14	1500/300	1300	60	90	208/3	12.0/SCR	50	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-12	DIAKIN	MQTH15	10"Ø	14x12	825/175	725	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-13	DIAKIN	MQTH15	10"Ø	14x12	900/200	750	60	90	208/3	7.5/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-14	DIAKIN	MQTH15	10"Ø	14x12	600/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-15	DIAKIN	MQTH15	14"Ø	18x14	2000/400	1600	60	90	208/3	15.0/SCR	60	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-16	DIAKIN	MQTH15	10"Ø	14x12	1000/200	800	60	90	208/3	8.0/SCR	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L
VAV-17	DIAKIN	MQTH15	10"Ø	14x12	625/100	500	60	90	208/1	5.0/2	30	1.0	0.3	DDC	M300	<30	DDC,DM,ELEC,T,CT,CS,LP,FS,L

- A - ATTENUATOR
- AV - AIR VALVE / DAMPER
- C - CONTROLLER
- CON - CONSTANT VOLUME
- CT - CONTROL TRANSFORMER (NOTE 6)
- DDC - DIRECT DIGITAL CONTROLS
- DM - HEATER DISCONNECTING MEANS
- ELEC - ELECTRIC
- ESP - EXTERNAL STATIC PRESSURE
- F - FILTERS
- FA - FAN ACCESS PANEL
- FS - HEATER AIR FLOW SWITCH
- CS - CROSS HAIR AVERAGING FLOW SENSOR
- LP - LOW PROFILE HEIGHT
- ISP - INTERNAL STATIC PRESSURE
- L - "FIBRE-FREE" LINING
- ML - MINIMUM VOLUME LIMITER
- MR - MORNING WARM-UP RELAY
- MV - MAXIMUM VOLUME LIMITER
- NR - NIGHT SHUT-OFF RELAY
- SI - SIDE PLENUM INLET
- T - DIGITAL TEMPERATURE SENSOR (GUI SCREEN)
- TI - TOP PLENUM INLET
- VA - VALVE / DAMPER ACCESS PANEL
- VAV - VARIABLE AIR VOLUME
- VR - PNEUMATIC VOLUME REGULATOR
- 2WV - 2-WAY CONTROL VALVE PACKAGE
- 3WV - 3-WAY CONTROL VALVE PACKAGE

NOTES:
1. PROVIDE UNIT MOUNTED DISCONNECT.
2. CONTROL WIRING TO BE 24V. COORDINATE PRIMARY VOLTAGE WITH ELECTRICAL CONTRACTOR.

DUCTLESS SPLIT SYSTEM SCHEDULE

SUSPENDED/WALL AIR CONDITIONER

MARK	MFG.	MODEL #	CFM LO/HI	*E.S.P.	FAN KW	COOLING CAPACITY E.A.T.	COOLING CAPACITY THC	HEAT CAPACITY MBH	ELECTRICAL DATA VOLT/PH	MCA	MOCP	ACCESSORIES	ASSOC. HP
DSS-1	DIAKIN	FXZQ18TAVJU	400/600	0.15	0.05	75/63	16.0	18.0	208/1	1.8	15	T,C,IC,SP,R,A,FS,LS	1
DSS-2	DIAKIN	FXZQ18TAVJU	400/600	0.15	0.05	75/63	16.0	18.0	208/1	0.6	15	T,C,IC,SP,R,A,FS,LS	1
DSS-3-5	DIAKIN	FXMQ24PVJU	400/680	0.15	0.02	75/63	20.6	28.0	208/1	1.8	15	T,C,IC,SP,R,A,FS,LS	2
DSS-6	DIAKIN	FXZQ18TAVJU	200/400	0.15	0.02	75/63	10.0	14.0	208/1	0.8	15	T,C,IC,SP,R,A,FS,LS	1

HEAT PUMP CONDENSING UNIT

MARK	MFG.	MODEL #	AMB. TEMP.	HTG MBH	CLG THC MBH	V/PH	MCA	MOCP	ACCESSORIES
CU-1	DIAKIN	RXTQ36TBVJUA	105			208/1	29.1	35	LA,C,SP,T,R,LS
CU-2	DIAKIN	RXYQ96AAYDA	105	73.0	80.0	208/3	42	60	LA,C,SP,T,R,LS

ABBREVIATIONS:
- LA - LOW AMBIENT CONTROL (-10°F)
- C - CONDENSATE DRAIN KIT
- IC - INTERGRAL CONTROLS
- WB - WIND BAFFLE
- SP - SINGLE POWER SUPPLY TO INDOOR AND OUTDOOR UNIT
- T - 7 DAY PROGRAMMABLE CONTROLLER (PQRCVSL0QW)
- RC - ROOF CURB WITH CAP AND PIPE SLEEVE
- R - R410A REFRIGERANT
- A - AUTOMATIC CHANGEOVER FROM HEATING/COOLING
- FS - AUTOMATIC FAN SPEED CONTROL
- LS - ANY REQUIRED REFRIGERANT ACCESSORIES IF REQUIRED (LINE SETS, ETC)

*E.S.P. - DOES NOT INCLUDE FILTER LOSS

WALL UNIT HEATER

MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
EWH-1	REAR EXIT	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL
EWH-2	VESTIBULE	ENTRY	MARLEY - ARWH3008	208/1	3000/14.4	ALL

REMARKS:
1. PROVIDE DISCONNECT SWITCH.
2. WALL BRACKET.
3. ALL OTHER HARDWARE FOR COMPLETE INSTALLATION.

RECESSED BASEBOARD ELECTRIC HEATING

MARK	LOCATION	SERVES	MANUFACTURER & MODEL	VOLT/PH	WATTS/AMPS	REMARKS
BEH-1	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F9936-01-200	208/1	600/2.88	ALL
BEH-2	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F9972-01-200	208/1	1200/5.77	ALL
BEH-3	128 LOBBY	ENTRY	RAYWALL 9900 SERIES, F9912O-01-200	208/1	2000/8.33	ALL

REMARKS:
1. PROVIDE DISCONNECT SWITCH.
2. ACCESSORIES - LEVELING FEET, STAINLESS STEEL ELEMENT, 3/4" WIREWAY AND KNOCKOUTS EACH END.
3. CONTROL RELAY FOR CONTROLS BY BMS.
4. HEAVY DUTY BAR GRATE, EXTRUDED ALUMINUM, CLEAR ANODIZED FINISH

AIR DISTRIBUTION DEVICES

MARK	SERVES	COLOR	DAMPER	PATTERN	SIZE	MAX NC	MAX PD IN WC	MANUFACTURER & MODEL	REMARKS
SD-1	SUPPLY	WHITE	-	4-WAY	24x24	30	0.1	TITUS OMNI-24x24-XX-3	1-6
SD-2	SUPPLY	WHITE	-	2-WAY	48"x6"	30	0.1	TITUS TBDI-80, 3 SLOT, 1" WIDTH	1-6, 8
SD-3	SUPPLY	WHITE	-	2-WAY	24"x6"	30	0.1	TITUS TBDI-80, 3 SLOT, 1" WIDTH	1-6, 8
SD-4	SUPPLY	WHITE	-	4-WAY	12"x12"	30	0.1	TITUS OMNI-12x12-XX-3	1-6
SD-5	SUPPLY	WHITE	-	JET THROW	CONT.	30	0.1	FL-25-JT-26 (16FT), FBPI-2-48*	1,10
SD-6	SUPPLY	WHITE	-	JET THROW	CONT.	30	0.1	FL-25-JT-26 (16FT), FBPI-2-48*	1,10
SR-1	SUPPLY	WHITE	OBD	DOUBLE DEFLECTION	VARIES	30	0.1	TITUS 300RL-1-XX	1-5,7
RG-1	RETURN	WHITE	-	PERFORATED	24"x24"	25	0.1	TITUS PAR-24x24-XX-3	1-3
RG-2	RETURN	WHITE	-	FIXED	VARIES	25	0.1	TITUS 350-1-XX	1-3
RG-3	RETURN	WHITE	-	PERFORATED	12"x12"	25	0.1	TITUS PAR-12x12-XX-3	1-3
EG-1	EXHAUST	ALUMINUM	YES	FIXED	VARIES	25	0.1	TITUS 23RL-AA	1-2
FR-1	SUPPLY	ALUMINUM	NO	2-WAY	6"Wx36"L	25	0.1	TITUS CT581	11
FR-2	SUPPLY	ALUMINUM	NO	2-WAY	6"Wx24"L	25	0.1	TITUS CT581	11

REMARKS:
1. VERIFY BORDER TYPE REQUIRED (TYPE 1 GYP CEILING / FLANGE, TYPE 3 LAY-IN).
2. NECK SIZE INDICATED ON PLANS.
3. STEEL CONSTRUCTION. WHITE IN COLOR.
4. FRONT BLADES PARALLEL WITH LONG DIMENSION.
5. SIZE INDICATED ON PLANS.
6. PERFORATED FACE TO BE FLUSH WITH CEILING.
7. PROVIDE WITH INTERNAL BALANCE DAMPER
8. INSULATED PLENUM WITH OVAL DUCT COLLAR FOR SLOT DIFFUSER
9. PERFORATED FACE AND ASSOCIATED BORDER (LAY-IN). BOOT PER PLANS
10. TITUS FLOW BAR CONTINUOUS DIFFUSER, SINGLE 2" SLOT. INSTALL INSULATED PLENUMS IN 48" LENGTHS BEHIND DIFFUSER WITH SIZE AS INDICATED.

NOTES:
1. DIFFUSERS ARE FOUR WAY THROW, UNLESS NOTED DIFFERENT ON DRAWINGS
2. EQUIVALENT SUBSTITUTION BY PRICE, NAILOR, KRUEGER

NOTES CONT:
11. FLOOR REGISTER INSTALLED IN CONCRETE FLOOR WITH FIELD INSTALLED PLENUM. REFER TO INSTALLATION DETAIL. REGISTER TO BE ALUMINUM IN COLOR.

EXHAUST FAN SCHEDULE

TAG	CFM	SP (IN. W.C.)	MOTOR HP/WATTS	RPM	DRIVE TYPE	SERVICE/MOUNTING	ELECTRICAL	MANUFACTURER MODEL NUMBER	ACCESSORIES	DRAWING LOCATION
EF-1	550	0.35	1/4	1725	DIRECT	BATHROOM EXHAUST/ROOF	120V/1PH	COOK ACED-EC(101C17DEC)	RC,DM,GBD,SC	-
EF-2	700	0.35	1/4	1725	DIRECT	BATHROOM EXHAUST/ROOF	120V/1PH	COOK ACED-EC(101C17DEC)	RC,DM,GBD,SC	-
EF-3	500	0.15	1/20	1550	DIRECT	ELEVATOR EXHAUST/WALL	120V/1PH	COOK XPD-10 (10XW28D15)	WC,GBD,SC,WS,WH,T	-

ABBREVIATIONS:
- RC - ROOF CURB
- DM - DISCONNECTING MEANS
- GBD - GRAVITY BACKDRAFT DAMPER
- WC - WALL COLLAR
- DM - DISCONNECT MEANS
- GBD - GRAVITY BACKDRAFT DAMPER
- MBD - MOTORIZED BACKDRAFT DAMPER
- SC - SPEED CONTROLLER (0-10V)
- AS - HEAVY DUTY MOTORIZED ALUMINUM SHUTTER
- WG - WIRE GUARD
- IG - SQUARE INLET GRILLE SG-10 WITH DAMPER BD-10
- T - BMS INSTALLED TEMP SENSOR IN SHAFT TO RAMP SPEED 0-10V BASED UPON 80 DEG F SETPOINT
- RJ - COOK MODEL RJR100
- WCA - COOK MODEL
- WCR6 - ALUM WALL CAP WITH BACKDRAFT DAMPER
- WS - COOK MODEL GSS STANDARD DUTY ALUMINUM GRAVITY SHUTTER
- WH - COOK WEATHER HOOD

CONTRACTOR NOTE:
EXHAUST FANS TO BE CONTROLLED FROM BMS VIA TIME OF DAY SCHEDULING.

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI · CORY WILSON · 11.26.2024 · NUMBER PE-2010100579 · PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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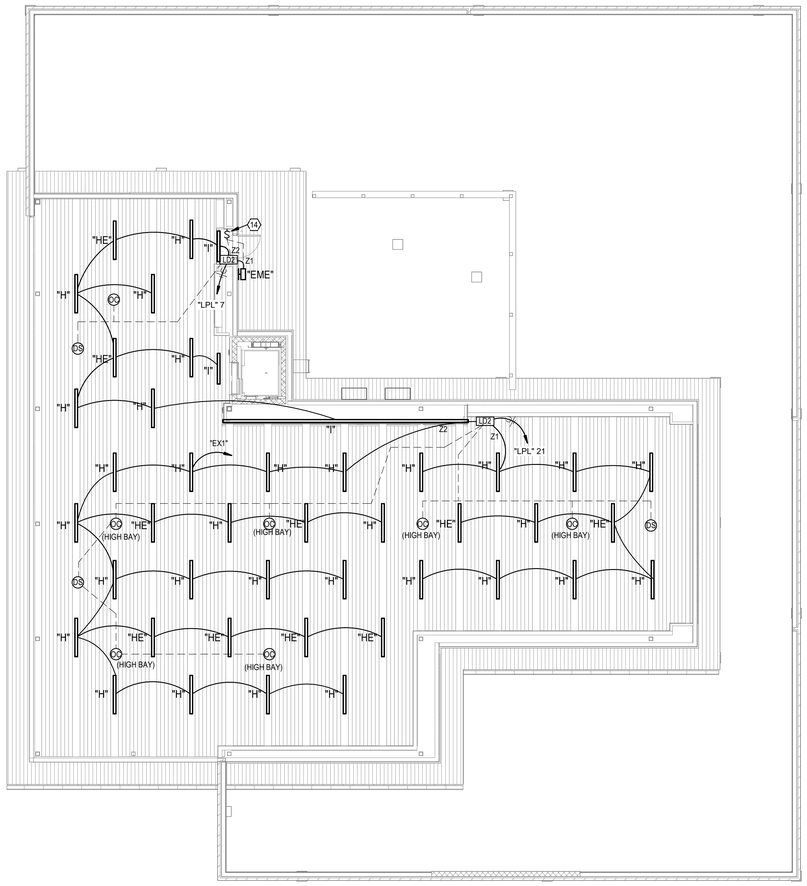
SHEET TITLE

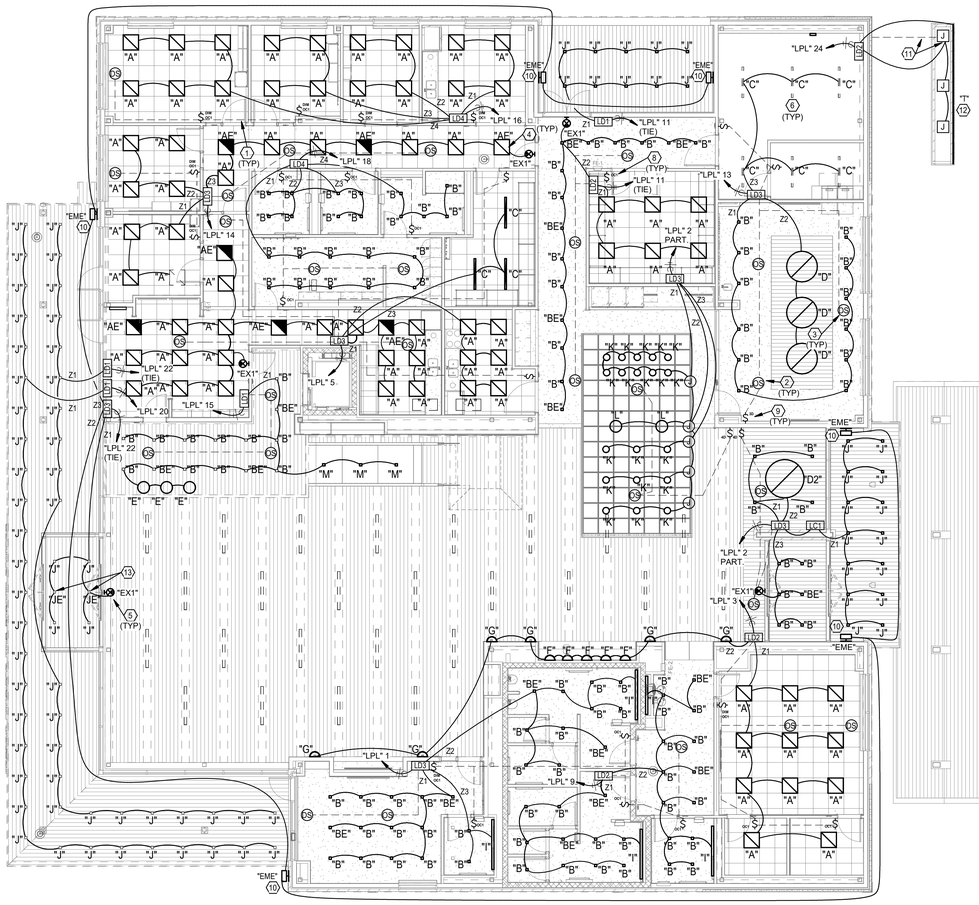
MECHANICAL SCHEDULES

M-500

SHEET 90 OF 102



Mezzanine Level
1/8" = 1'-0" (2)



Level 01 LIGHTING PLAN
1/8" = 1'-0" (1)

LIGHTING PLAN NOTES

1. ROUTE CAT-6 CABLING FOR ALL CONTROL DEVICES TO CONTROLLER.
2. DUAL TECHNOLOGY (PIR/US) LOW VOLTAGE CEILING OCCUPANCY SENSOR FURNISHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION CABLING TO CONTROLLER.
3. TYPICAL DAYLIGHT HARVESTING SENSOR MOUNTED IN CEILING WITHIN 60" OF WINDOW.
4. FIXTURES WITHIN DRYWALL CEILING LID TO BE FURNISHED WITH PLASTER FRAM (TYP, RE: ARCH REFLECTED CEILING PLANS).
5. INCLUDE 'HOT' UNSWITCHED CONDUCTOR WITH CIRCUITS THAT POWER EMERGENCY BATTERY PACK.
6. SUSPEND LED STRIP FIXTURE WITH CHAINS AT 8'-0" AFF.
7. DIGITAL LIGHTING CONTROLLER (1-4 CIRCUIT) MOUNTED ABOVE CEILING ON WALL 12" ABOVE GRID (LD FOR DIMMING, LC FOR GROUP CONTROL).
8. TYPICAL DUAL TECHNOLOGY (PIR/US) WALL SWITCH OCCUPANCY SENSOR WITH OVERRIDE OFF AND PUSH TO DIM FURNISHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION CABLING TO CONTROLLER.
9. TYPICAL MULTI-BUTTON DIGITAL SWITCH SENSOR FURNISHED AS PART OF DIGITAL LIGHTING CONTROL SYSTEM. ROUTE COMMUNICATION CABLING CONTROLLER. PROGRAM PER SEQUENCES FOR DAYLIHGTING, PUSH TO DIM, ETC.
10. MOUNT EXTERIOR FIXTURE AT 108" AFF PROVIDE SURFACE MOUNTING PLATE AND CONDUIT ENTRY. EXTERIOR EMERGENCY FIXTURES SHALL COME WITH BUILT-IN PHOTOCELL.
11. PROVIDE 2#12, #12G., 3/4" UG CONDUIT FROM PANELBOARD SERVING LOAD TO JUNCTION BOX FOR MONUMENT SIGN POWER. FINAL CONNECTION BY MONUMENT SIGN VENDOR.
12. LED STRIP LIGHTING ON FRONT OF MONUMENT SIGN. RE: ARCH DRAWINGS FOR ADDITIONAL DETAILS.
13. PROVIDE "JE" TYPE LIGHT FIXTURE WITH SURE-LITES EBPLEDL EMERGENCY BATTERY PACK RE: DETAIL 6/E-400.
14. MANUAL OVERRIDE SWITCH FOR EXTERIOR MEZZANINE "EME" LIGHT FIXTURE. SWITCH TO ALLOW FIXTURE TO REMAIN OFF IN NORMAL OPERATION AND TURN ON VIA SWITCH OR EMERGENCY POWER.

LIGHTING GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LOCAL VERSION OF THE NATIONAL ELECTRIC CODE AND NFPA AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
2. COORDINATE CLOSELY WITH ALL OTHER TRADES TO EXPEDITE CONSTRUCTION AND AVOID INTERFERENCES AND CONFLICTS BEFORE ANY PIPING, DUCTWORK, CONDUIT, ECT. IS INSTALLED, IT SHALL BE COORDINATED CAREFULLY BETWEEN ALL TRADES.
3. CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, ACCESSORIES, AND MATERIAL FURNISHED BY THEM FOR A PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE AGAINST ALL DEFECTORS.
4. VERIFY IN FIELD, THE LOCATION OF ALL STRUCTURAL MEMBERS. CEILINGS ARE SHOWN SCHEMATICALLY FROM ARCHITECTURAL PLANS.
5. ROUTE ALL CONDUIT TIGHT TO STRUCTURE.
6. LIGHT FIXTURES DESIGNATED WITH THE LETTER "E" (I.E "DE", "BE", ETC.) SHALL BE CONNECTED TO CIRCUIT SHOWN THAT SHALL AUTOMATICALLY SWTCH TO EMERGENCY POWER IN THE EVEN OF A NORMAL POWER LOSS.
7. PROVIDE ALL LED DIMMABLE FIXTURES WITH 0-10V DIMMABLE DRIVERS.
8. REFER TO SHEET E-400 FOR DIMMING SWITCH BANKS.
9. EXIT LIGHTS SHALL BE CIRCUITED TO UNSWITCHED HOT, TYPICAL ALL EXITS THROUGHOUT.

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI · CORY WILSON · 10.22.2024 · NUMBER PE-2010009876 · PROFESSIONAL ENGINEER

Cory Wilson - MO #PE-2010009876
Certificate of . 10-21-2024 #2024005146

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	CMW
DRAWN BY:	MR
CHECKED BY:	WAI
APPROVED BY:	APPROVER
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SHEET TITLE
LIGHTING PLANS

E-100
SHEET OF

11/27/2024 9:23:32 AM

VAV/ELEC HEAT FEEDER SCHEDULE

MARK	HTG COIL (ELECTRIC)			PANEL	FEEDER
	VOLT/PH	KW	MOCP		
VAV-1	208/1	5,0	35	LPH/1	2 - #8 AND 1-#10G IN 0,75" C
VAV-2	208/1	4,0	30	LPH/2	2 - #10 AND 1-#10G IN 0,75" C
VAV-3	208/1	2,5	20	LPH/5	2 - #12 AND 1-#12G IN 0,75" C
VAV-4	208/1	5,0	35	LPH/6	3 - #8 AND 1-#10G IN 0,75" C
VAV-5	208/1	2,5	20	LPH/9	2 - #12 AND 1-#12G IN 0,75" C
VAV-6	208/1	2,5	20	LPH/10	2 - #12 AND 1-#12G IN 0,75" C
VAV-7	208/1	2,5	20	LPH/13	2 - #12 AND 1-#12G IN 0,75" C
VAV-8	208/1	2,5	20	LPH/14	2 - #12 AND 1-#12G IN 0,75" C
VAV-9	208/3	12,0	45	LPH/17	3 - #8 AND 1-#10G IN 0,75" C
VAV-10	208/3	7,5	30	LPH/18	3 - #10 AND 1-#10G IN 0,75" C
VAV-11	208/3	12,0	45	LPH/23	3 - #8 AND 1-#10G IN 0,75" C
VAV-12	208/3	7,5	30	LPH/24	3 - #10 AND 1-#10G IN 0,75" C
VAV-13	208/3	7,5	30	LPH/29	3 - #10 AND 1-#10G IN 0,75" C
VAV-14	208/1	5,0	35	LPH/30	2 - #10 AND 1-#10G IN 0,75" C
VAV-15	208/3	15,0	60	MDP-7	3 - #6 AND 1-#10G IN 1" C
VAV-16	208/3	8,0	30	LPH/34	3 - #10 AND 1-#10G IN 0,75" C
VAV-17	208/1	5,0	35	LPH/40	2 - #10 AND 1-#10G IN 0,75" C
BES-1/2	208/1	3,0	20	LPH/43	2 - #12 AND 1-#12G IN 0,75" C
BES-3	208/1	2,0	20	LPH/47	2 - #12 AND 1-#12G IN 0,75" C
BES-3	208/1	2,0	20	LPH/52	2 - #12 AND 1-#12G IN 0,75" C
EWH-1	208/1	3,0	20	LPH/44	2 - #12 AND 1-#12G IN 0,75" C
EWH-2	208/1	3,0	20	LPH/46	2 - #12 AND 1-#12G IN 0,75" C
WH-1/WH-2	120/1	0,5	20	LPH/56	2 - #12 AND 1-#12G IN 0,75" C
ERV INDOOR	208/1	0,5	20	LPH/55	2 - #12 AND 1-#12G IN 0,75" C
ERV INDOOR	208/1	0,5	20	LPH/63	2 - #12 AND 1-#12G IN 0,75" C
CU-1	208/1	5,5	35	LPH/51	2 - #8 AND 1-#12G IN 0,75" C
CU-2	208/3	7,5	60	LPH/59	3 - #6 AND 1-#12G IN 0,75" C

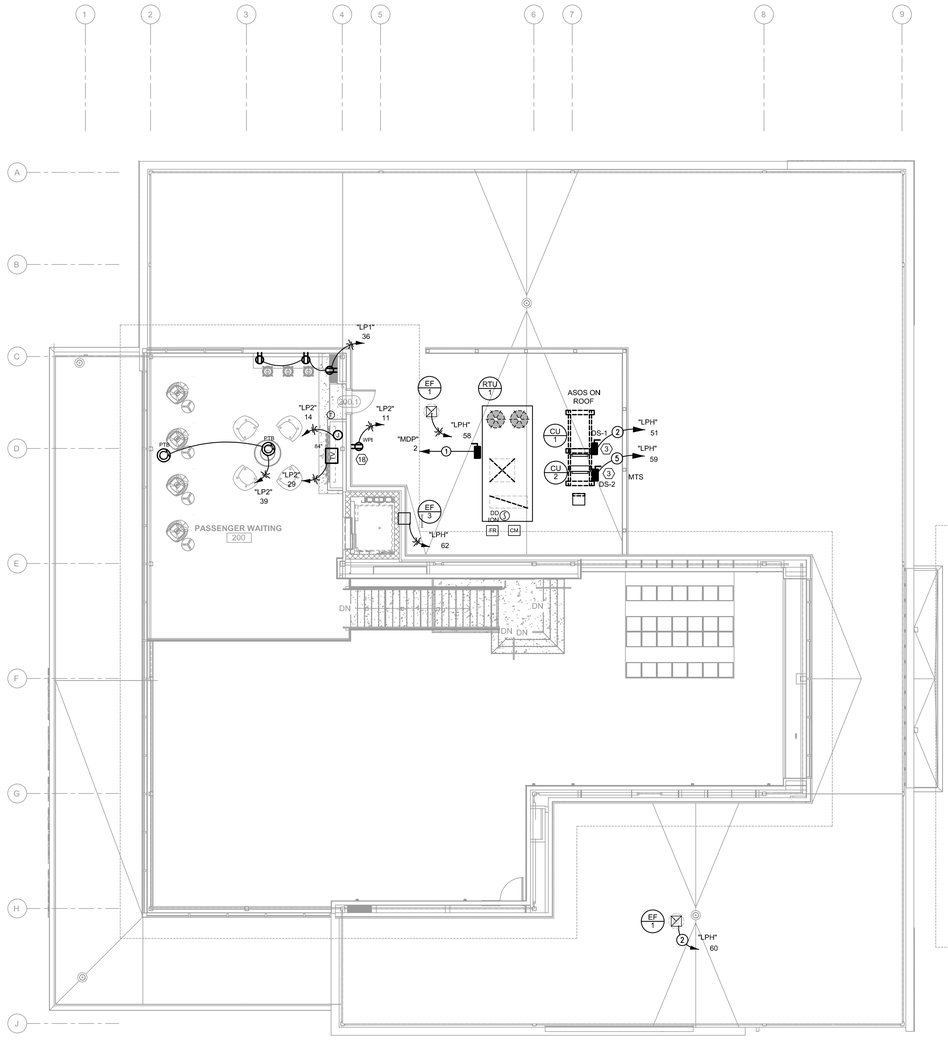
*REFER TO MECHANICAL PLANS FOR LOCATIONS AND EXACT SIZES OF HEATERS. VAV BOXES MAY NOT BE IN EXACT LOCALE. EXACT LOCATION OF T-SENSORS PER MECH

POWER PLAN NOTES

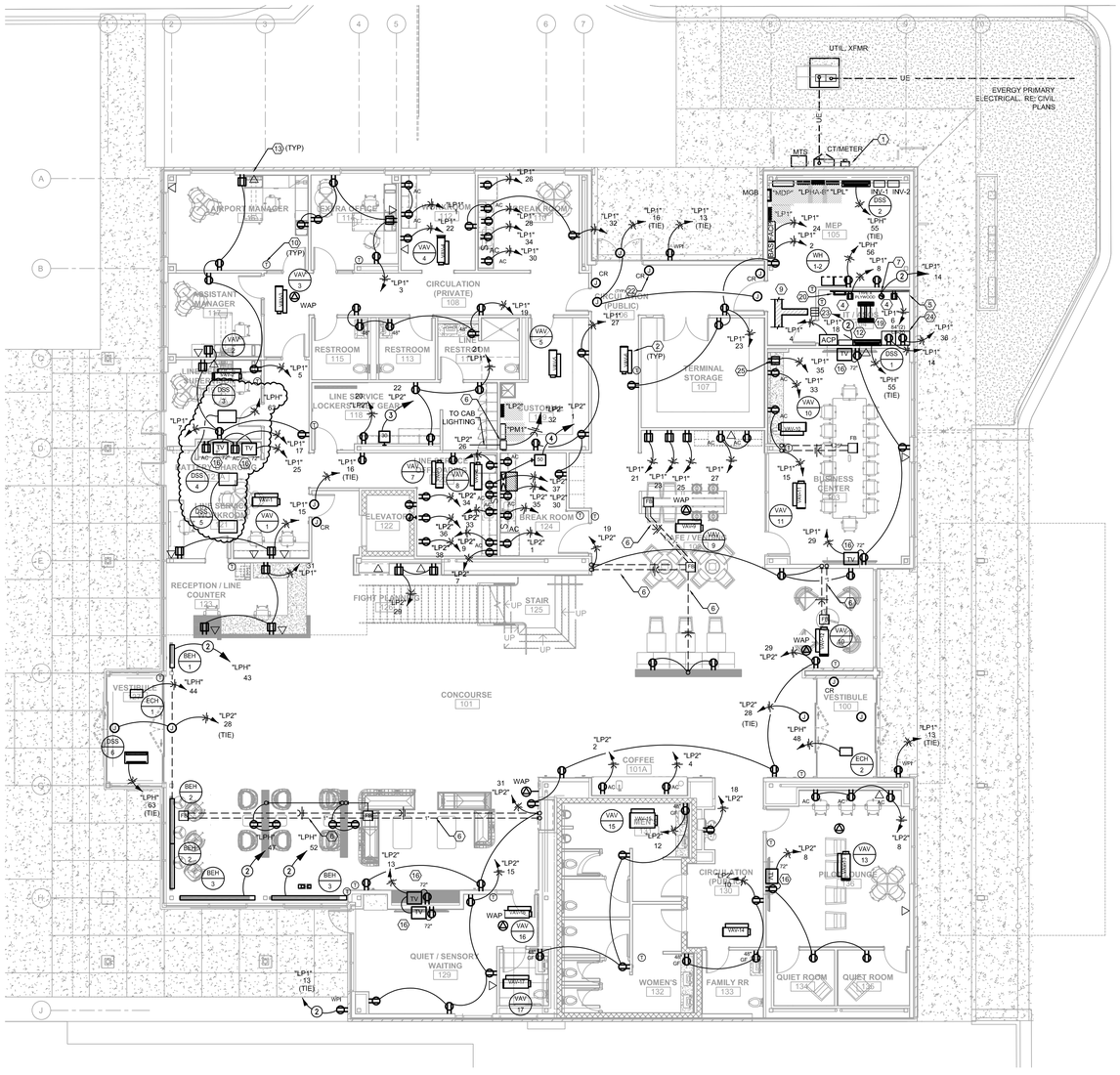
1. LOCATION OF MAIN DISCONNECT/MANUAL TRANSFER SWITCH WITH HOOK-UP, CT CABINET (36" WIDE, LOCKABLE), METER. SURFACE MOUNT ON WALL.
2. FACTORY INSTALLED DISCONNECTING MEANS/BREAKER FURNISHED WITH VAV EQUIPMENT. SEE SCHEDULE ON THIS SHEET FOR ALL FEEDERS TO HVAC EQUIPMENT.
3. NEW NEMA 3R DISCONNECT "DS1" WITH LIQUID-TIGHT FLEXIBLE CONDUIT FOR CONNECTION TO MECHANICAL EQUIPMENT. ROUTE CONDUIT THRU WALL ON LOWER ROOF INTO BUILDING. FIELD VERIFY EXACT REQUIREMENTS.
4. PROVIDE DEDICATED QUAD RECEPTACLES FOR SERVER OR A/V EQUIPMENT LOCATED IN RACKS. INSTALL ONE WALL MOUNTED CABINET PER DETAILS WITH BUILT-IN OUTLET WITHIN.
5. INSTALL 5/8" THICK, FIRE RATED PLYWOOD TERMINATION BOARD ON THE ENTIRE WALL. PAINT TO MATCH WALL COLOR.
6. PROVIDE 30A, 1P DISCONNECT SWITCH FUSED AT 20A FOR ELEVATOR HOISTWAY CAB LIGHTING AND RECEPTACLES.
7. FURNISH SO DROP BOX AT CEILING WITH NEMA L5-30P DROP FOR CONNECTION TO RACK MOUNTED UPS UNIT.
8. FURNISH (1) DOUBLE GANG JUNCTION BOXES FOR SYSTEMS FURNITURE FEED CONNECTIONS (POWER). PROVIDE SINGLE GANG MUD RING FOR 0,75" (POWER) WHIP CONNECTION, FURNISH ALL IN-FEEDS PER MANUFACTURER (2+1).
9. 12" WIDE x 2" DEEP WIRE BASKET CABLE TRAY EQUAL TO COOPER B-LINE MODEL WB212-CW. PROVIDE ALL-THREAD SUPPORTS FROM CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH DUCTWORK AND PIPING (MOUNT AS HIGH AS POSSIBLE). PROVIDE CONTINUOUS GROUND WIRE ATTACHED TO EACH WIRE BASKET SECTION, TERMINATING AT SERVER ROOM GROUND BAR. INSTALL TEES, SUPPORTS, FITTINGS, ETC PER MANUFACTURER SPECIFICATIONS.
10. PROVIDE NEW SINGLE GANG BACKBOX WITH 0.5" CONDUIT TO ABOVE CEILING FOR THERMOSTAT/SENSOR WIRING. ALL TEMPERATURE CONTROL WIRING AND DEVICES SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
11. SCHEMATIC LOCATION OF NEW VAV BOX WITH ELECTRIC REHEAT. CONFIRM EXACT LOCATION WITH MECHANICAL PLANS. CONFIRM EXACT MOCP WITH MECHANICAL PLANS TO COORDINATE BREAKER/WIRE SIZE. VAV'S FURNISHED WITH INTEGRAL DISCONNECT. SEE SCHEDULE ON THIS SHEET.
12. ASOS EQUIPMENT BOX ON WALL WITH POWER TERMINATED AT JUNCTION BOX. CIRCUIT 2-#12 AND 1 - #12 GROUND TO 20A/2P BREAKER PER PANEL SCHEDULE.
13. WHERE A DATA SYMBOL IS SHOWN ON THE PLANS, PROVIDE DOUBLE GANG BACKBOX WITH SINGLE GANG MUD RING. PROVIDE 1" CONDUIT TO ABOVE CEILING TERMINATING WITH BUSHING. (TYP OF ALL SHOWN ON THE PLANS). RE: ROUGH-IN DETAIL. ANY SCIF PERIMETER WALL SHALL BE SURFACE MOUNTED CONDUIT AND BACKBOXES. INTERIOR SCIF WALLS CAN BE RECESSED.
14. CIRCUIT HOMERUN FROM EXHAUST FAN THRU DDC RELAY FOR TIME CLOCK CONTROL.
15. FLOOR COPIER RECEPTACLE.
16. PROVIDE NEW WALL RECEPTACLE AND LOW VOLTAGE ROUGH-IN BOXES FOR FLAT SCREEN TELEVISION. INSTALL AT 72" AFF PER ARCH PLANS. PROVIDE INSTALLATION PER DETAIL FOR WIREMOLD A/V PREMANUF. BOX. ROUTE HDMI AND CAT-6 TO WALL BOX IN CONDUIT (COORDINATE WITH OWNER TELECOMM CONTRACTOR).
17. WIREMOLD DS4000 SERIES DUAL CHANNEL PLUGMOLD WITH OUTLETS AT 12" O.C. AND LOW VOLTAGE SECTION FOR TELECOMM OUTLET AND PANIC HARDWARE MOUNTING WITHIN. MOUNT 4" ABOVE TOP OF COUNTER.
18. MOUNT MAINTENANCE RECEPTACLE TO OUTSIDE OF WALL ABOVE LOWER ROOF AT 24" ABOVE ROOF LINE. INSTALL WITHIN WEATHERPROOF-IN-USE ENCLOSURE. ROUTE CONDUITS THRU WALL.
19. TELECOM CONTRACTOR FURNISHED FLOOR MOUNTED 2-POST RACK WITH RACK MOUNTED UPS AND PATCH PANELS (BY OTHERS). PROVIDE SO CORD DROP TO CONNECT TO RACK MOUNTED UPS INPUTS WITH MULTIPLE NEMA 5-15R OUTLETS WITHIN RACK.
20. PROVIDE COOPER, LEVITON, OR HUBBEL 12" LONG GROUND BAR WITH INSULATORS. (6) #4 MAX LUGS.
21. TYPICAL LOCATION OF CAMERA BY OTHERS. FURNISH JUNCTION BOX AND CONDUIT TO ABOVE CEILING IF INSTALLED WITHIN WALL. USE RADIUS ELBOW AND TERMINATE WITH BUSHING.
22. FURNISH CARD READER JUNCTION BOX AND CONDUIT WITHIN WALL TO 4X4 JUNCTION BOX ABOVE DOOR. REFER TO SECURITY ROUGH-IN DETAIL.
23. CABLE TRAY TO STOP PRIOR TO WALL (12") WITH LEGRAND EZPASS THRU-WALL BARRIER (3 SECTIONS PARTITIONS FOR EACH NETWORK). EZPASS FURNISHED AND INSTALLED BY E/C.
24. TRIPPLITE 12U WALL IT CABINET FOR PA SYSTEM (1) AND CRESTRON EQUIPMENT (1). PROVIDE L5-20R OUTLET BEHIND CABINET FOR CONNECTION TO RACK MOUNTED PDU.
25. QUAD OUTLET AND SPECIAL A/V OUTLET INSTALLED UNDERCABINET FOR CRESTRON EQUIPMENT. RE: ELEV.
26. CONDUIT FROM BELOW SLAB UP INSIDE OF WALL WITH JUNCTION BOX ROUTING TO DUPLEX OUTLETS IN WALL.

FEEDER SCHEDULE

1. (4)-#250MCM AND (1)-#4 GROUND IN 2.5" CONDUIT.
2. (2)-#10 AND (1) #10 GROUND IN 3/4" CONDUIT.
3. (3)-#10 AND (1) #10 GROUND IN 3/4" CONDUIT.
4. (2)-#8 AND (1) #10 GROUND IN 3/4" CONDUIT.
5. (3)-#6 AND (1) #10 GROUND IN 3/4" CONDUIT.



1 POWER PLAN - LEVEL 2
SCALE: 1/8"=1'-0"



1 POWER PLAN - LEVEL 1
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010020878
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

POWER PLANS

E-110

SHEET 92 OF 102

COMMUNICATIONS CABLING LEGEND

DEVICE	CABLE TYPE	CABLE QTY (NOTE 1)	CABLE COLOR (NOTE 5)	DESCRIPTION	HEIGHT (NOTE 4)	COMMENTS
▽	CAT-6	2	GREEN	DATA RECEPTACLE - WALL	WALL +18"	MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE ON PLANS
ⓥ	CAT-6	2	GREEN	DATA RECEPTACLE - ABOVE CEILING	CEILING	PROVIDE A BISCUIT JACK ABOVE THE ACCESSIBLE CEILING SPACE
ⓥ WAP	CAT-6	2	GREEN	WIRELESS ACCESS POINT UNIFY 7 U7 PRO MAX, TRI-BAND, 1750 SF COVERAGE AND 500 USERS MAX. BLACK IN COLOR ON WOOD SLAT CEILINGS, WHITE IN LAY-IN CEILINGS	CEILING	PROVIDE A BISCUIT JACK ABOVE THE ACCESSIBLE CEILING SPACE. PROVIDE A 10' SERVICE LOOP AT WAP LOCATION. WIRELESS ACCESS POINT SHALL BE FURNISHED AND INSTALLED BY DIV. 27 CONTRACTOR. CONFIRM FINAL LOCATIONS OF WAP's WITH OWNER PRIOR TO INSTALLATION.
▽	CAT-6	2	GREEN	DATA RECEPTACLE - FLOOR BOX	FLOOR	DIV 26 FURNISHED FLOOR BOX/POKE-THRU, DIV 27 CONTRACTOR INSTALLED DEVICES
TV	CAT-6	1	GREEN	TV OR AUDIOVISUAL FLAT PANEL DISPLAY.	NOTE 2	COORDINATE FINAL ROUGH-IN REQUIREMENTS WITH A/V CONTRACTOR. PROVIDE BACKING FOR DISPLAY MOUNTING PER DETAIL.
CCTV	CAT-6	1	PURPLE	CCTV CAMERA (I.P., POE)	NOTE 3	COORDINATE FINAL ROUGH-IN REQUIREMENTS WITH SECURITY CONTRACTOR. FINAL CAMERA LOCATION MAY VARY BY +/- 15'.
ACP	CAT-6	1	PURPLE	ACCESS CONTROL PANEL	NOTE 3	
⬡	(2)-#12			PA-WHITE NOISE SPEAKER		SHIELDED TWISTED PAIR WIRING

NOTES (#)
1. PROVIDE CABLE QUANTITY SHOWN UNLESS NOTED OTHERWISE BY NUMBER / LETTER MODIFIER ADJACENT TO SYMBOL. A "(0)" ADJACENT TO SYMBOL INDICATES DEVICE PROVIDED FOR ROUGH-IN ONLY. PROVIDE A BLANK COVER PLATE WITH NO CABLING.
   EXAMPLE: (3) = THREE CABLES
   (2) = TWO CABLES
2. COORDINATE WITH A/V CONTRACTOR.
3. COORDINATE WITH SECURITY CONTRACTOR.
4. UNLESS NOTED OTHERWISE ON PLANS.
5. VERIFY CABLE COLOR CODING WITH ENGINEER AND OWNER DURING SUBMITTAL PROCES AND PRIOR TO PROCUREMENT OF ANY MATERIALS.

NOTES (**)
** FOR ALL FIBER OUTLET LOCATIONS, INSTALL WAC-1X LIGHTWAVE LGX FIBER ENCLOSURE OVER THE TOP OF THE DOUBLE GANG BOX WITH SINGLE GANG MUD RING TO PULL CABLING THRU WITH SIDE OUTLET CONNECTORS. THIS IS TYPICAL FOR ALL FIBER DROP LOCATIONS.

PLAN NOTES: (#)

1. 48-RU, BLACK, 2-POST TELECOMMUNICATIONS RACK WITH 6" DUAL-SIDED (FRONT/BACK) VERTICAL CABLE MANAGER.
2. PROVIDE BLACK LADDER TYPE CABLE RUNWAY 16" WIDE. CABLE TRAY SHALL BE MOUNTED 12" ABOVE THE EQUIPMENT RACKS UTILIZING RACK STAND-OFF KITS. PROVIDE RADIUS DROP-OUT KITS AT RACK VERTICAL CABLE MANAGER LOCATION. PROVIDE ALL REQUIRED SUPPORTS AND ACCESSORIES AS NEEDED FOR A COMPLETE SYSTEM.
3. LEGRAND TV ROUGH-IN BOX FURNISHED BY ELECTRICAL CONTRACTOR, UTILIZE LOW VOLTAGE SECTION FOR ANY COMMUNICATION CABLING JACKS.
4. TYPICAL DATA OUTLET WITH (2) CAT-6 DROPS AND KEYSTONES. ALL ROUGH-IN BOXES AND CONDUIT TO ABOVE CEILING BY E/C.
5. TYPICAL WHITE NOISE - MUSAK CEILING SPEAKER. REFER TO RISER DIAGRAM AND ALL CABLING WORK.
6. ACCESS CONTROL SYSTEM CONTROL PANEL. POWER (120V) FURNISHED BY E/C. REFER TO DOOR WIRING DIAGRAMS.
7. TYPICAL POE CAMERA FURNISHED BY OWNER SECURITY CONTRACTOR. ALL CAT-6 WIRING INSTALLED BY TELECOMMUNICATIONS CONTRACTOR. COIL 6 FEET OF CABLING AT ROUGH-IN LOCATION.
8. FLOOR BOX PROVIDED BY ELECTRICAL CONTRACTOR.
9. PROVIDE CAT-6 CABLING COILED ABOVE CEILING FOR CONTRACTOR FURNISHED CEILING MOUNTED WIRELESS ACCESS POINT (BLACK/WHITE).
10. WALL MOUNTED CABINET FOR PA SPEAKERS. REFER TO RISER DIAGRAM.
11. TYPICAL ACCESS CONTROL DOOR, INCLUDE ROUGH-IN AND WIRING TO ELECTRIC STRIKE, REQUEST TO EXIT, DOOR CONTACTS, CONTROLLER.
12. TELECOM GROUND BAR MOUNTED ON 3/4" TYPE X PLYWOOD.
13. INSTALL WIREMOLD EXPASS PASS-THRU BOX PER DETAIL (CAT-6).
14. ROUTE 2" CONDUIT FOR ASOS/ANTENNAE EQUIPMENT ON WALL UP TO SATELLITE MOUNT ON ROOF AND SECOND STORY WALL (2 LOCATIONS). REFER TO INSTALLATION DETAIL ON ROOF.
15. 1.5" CONDUIT FROM HANGAR II FOR PULLING OF 6-STRAND MULTI-MODE FIBER FROM HANGAR NETWORK. OWNER SHALL COORDINATE WORK WITH OWNER IT GROUP. FURNISH PULL-WIRE, INSTALL QUAZITE PULL-BOXES AS REQUIRED PER SITE PLAN.
16. SHUNT TRIP TO BE PROVIDED INTEGRAL TO EACH ELEVATOR POWER MODULE, UPON ACTIVATION OF HEAT DETECTORS INSTALLED IN THE ELEVATOR SHAFT AND MACHINE ROOM, POWER TO ELEVATOR SHALL BE DISABLED, SPECIFIED CONTACT RATING IS 120V FOR SIGNAL FROM FA SYSTEM. VERIFY EXACT REQUIREMENTS WITH FAC.
17. PROVIDE FIRE ALARM CONTROL MODULE INTEGRAL TO ELEVATOR POWER MODULE AND WIRE TO FIRE ALARM SYSTEM SUCH THAT CONTROL VOLTAGE IS MONITORED FOR ELEVATOR EMERGENCY OPERATION. LOSS OF VOLTAGE SHALL PRODUCE A TROUBLE ALERT AT THE FIRE ALARM PANEL.
18. ELEVATOR POWER MODULE "PM1".
19. PROVIDE FIRE ALARM MODULES TO PROVIDE PRIMARY FLOOR RECALL, ALTERNATE FLOOR RECALL AND "FIREMAN'S HAT" INDICATION AT THE ELEVATOR CONTROLLER. VERIFY ALL WIRING REQUIREMENTS WITH THE FIRE ALARM MANUFACTURER AND ELEVATOR EQUIPMENT SUPPLIER. LOCATE IN ELEVATOR CONTROL ROOM.
20. INSTALL HEAT DETECTOR AT HOISTWAY CEILING. ACTIVATION OF HEAT DETECTOR SHALL CAUSE CLOSURE OF A 120V CONTACT AT THE FACP FOR SHUNT TRIP OF THE ELEVATOR POWER MODULE. COORDINATE SPECIFIC REQUIREMENTS WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
21. ROUTE DEDICATED CAT-6 CABLING TO ELEVATOR CONTROL PANEL. COORDINATE WITH EQUIPMENT MANUFACTURER FOR INSTALLATION AND/OR EXTENSION (CAT 6) CABLE BEYOND CONTROL PANEL.

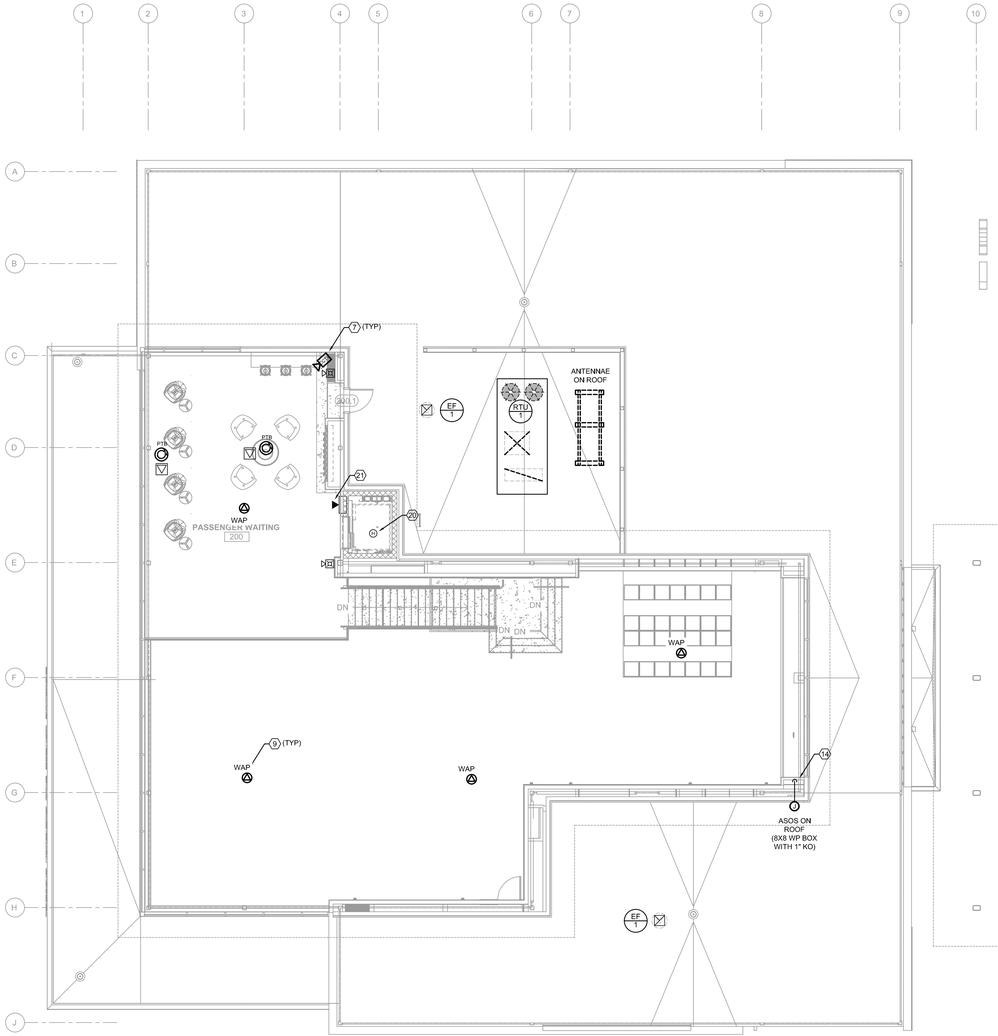
GENERAL NOTES:

A. HORIZONTAL CABLING FOR SECURITY CAMERAS AND/OR OTHER SECURITY EQUIPMENT SHALL BE WIRED TO TELECO RACK.

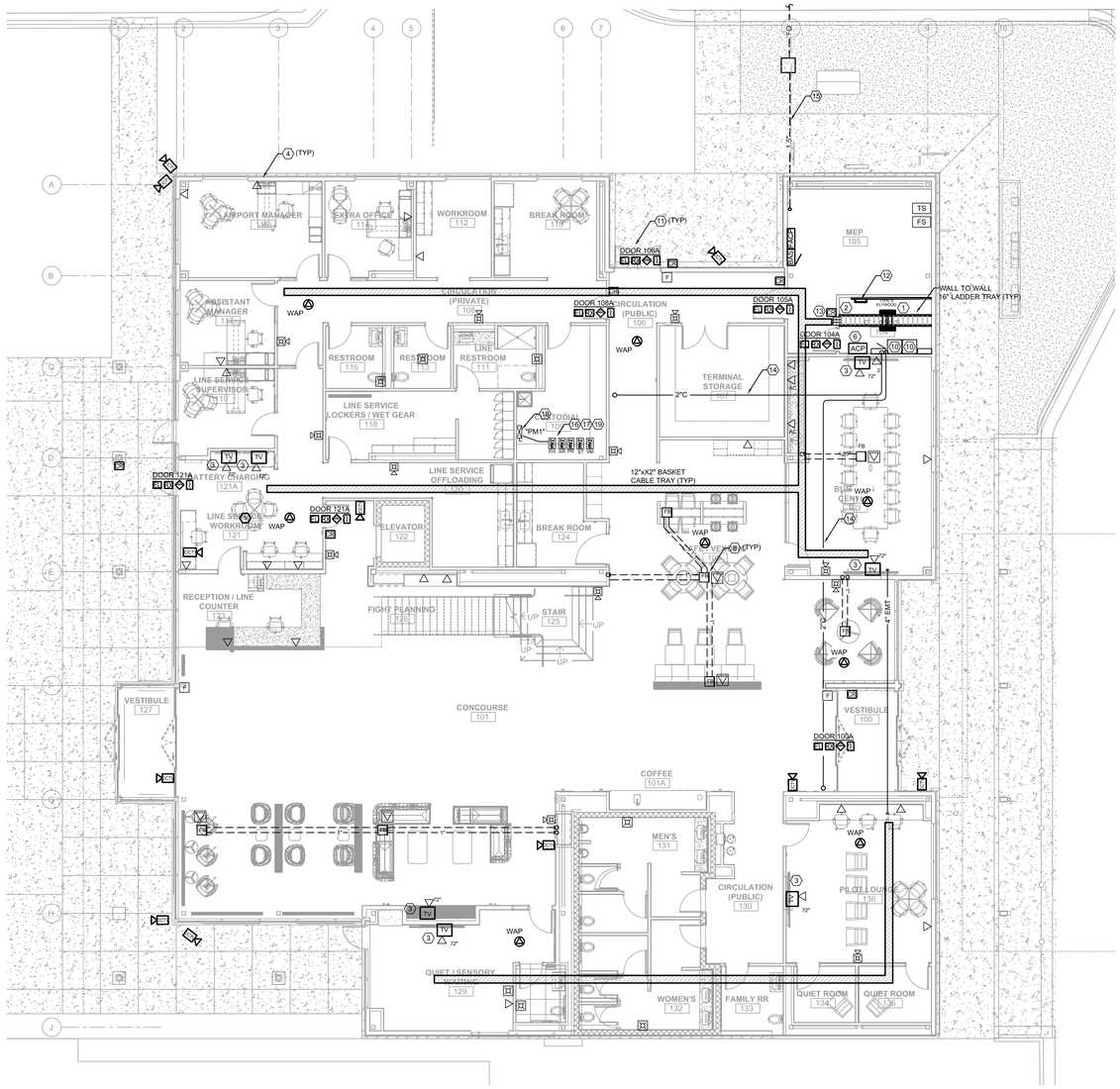
B. REFER TO OVERALL FLOOR PLANS FOR CABLE TRAY ROUTING. ALL TRAY INSTALLED BY E/C.

C. COORDINATE ALL DOOR HARDWARE ROUGH-IN REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. COORDINATE ROUGH-IN REQUIREMENTS WITH ALL SECURITY CAMERAS WITH ELECTRICAL CONTRACTOR.



1 SPECIAL SYSTEMS PLAN - LEVEL 2
SCALE: 1/8"=1'-0"



1 SPECIAL SYSTEMS PLAN - LEVEL 1
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010000870
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

SPECIAL SYSTEMS PLAN

E-120

SHEET 93 OF 102

ELECTRICAL ROOF PLAN NOTES

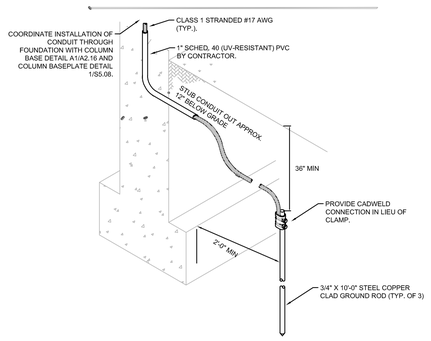
1. FURNISH AND INSTALL 3/8" DIAMETER COPPER LIGHTNING AIR TERMINAL 18" LONG WITH SHARP BARE COPPER POINTS (TYPICAL). AIR TERMINAL SHALL EXTEND A MINIMUM OF 10" ABOVE SURROUNDING OBJECTS (WALLS). SPACE TERMINALS AT 20'-0".
2. INSTALL CLASS 2 STRANDED COPPER CONDUCTOR WITH #17 AWG STRANDS FOR MAIN/BONDING CONDUCTOR THROUGHOUT LIGHTNING PROTECTION SYSTEM. FASTEN TO STRUCTURE EVERY 3'-0" MINIMUM.
3. ROUTE DOWN CONDUCTOR DOWN THROUGH BUILDING AND CAD WELD TO A 10'X3/4" COPPER CLAD STEEL GROUND ROD AT THE BASE OF THE BUILDING. INSTALL TEST STATION PER DETAIL. FASTEN THE CONDUCTOR SECURELY TO STRUCTURE AT EVERY 3'-0" THROUGHOUT. AT FOUNDATION COORDINATE DOWN CONDUCTOR INSTALLATION THROUGH FOUNDATION WALL WITH ARCHITECTURAL COLUMN BASE DETAIL AND STRUCTURAL DETAIL. INSTALL 1" SCHEDULE 40 CONDUIT (PER DETAIL E410) THROUGH FOUNDATION SO THAT DOWN CONDUCTOR WILL ROUTE AROUND BASEPLATE AND BE CONCEALED WITHIN COLUMN/FOUNDATION WALL THROUGHOUT.

GENERAL NOTES

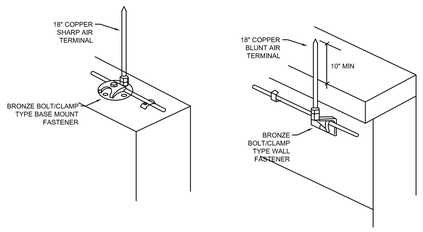
1. LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 780. SHOP DRAWINGS SHALL BE PROVIDED THAT INCLUDE ALL APPROPRIATE WIRE, TERMINALS, CONNECTION INFORMATION, DETAILED DIMENSIONS OF ALL EQUIPMENT, ETC.
2. LIGHTNING PROTECTION SYSTEM GROUNDING SHALL BE TIED INTO ELECTRICAL/TELEPHONE SERVICE GROUNDING SYSTEMS. SIZE OF CONDUCTOR FOR INTERCONNECTION SHALL BE THE SAME AS THE MAIN-SIZE LIGHTNING CONDUCTORS.
3. LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO ALL STRUCTURAL, ARCHITECTURAL, ETC., METALLIC EQUIPMENT THAT IS A PART OF THE STRUCTURE.
4. PROVIDE ALL NECESSARY BASES AND/OR FASTENERS TO INSTALL LIGHTNING PROTECTION SYSTEM AS INDICATED. REFERENCE DETAILS FOR FURTHER INFORMATION.
5. FOR SOLAR ARRAY, UTILIZE STANDING SEAM CLIPS AND BRACKETING FOR ALL ARRAYS. MINIMUM STAND-OFF FROM ROOF SHALL BE 6".
6. FOR CONDUITS DOWN THRU UPPER ROOF OVERHANG, UTILIZE PASS-THRU BOOTS AND SLEEVES FOR CONDUITS. ALL PENETRATIONS SHALL BE WEATHERTIGHT, USE LB FITTINGS DOWN.

PHOTOVOLTAIC ARRAY NOTES

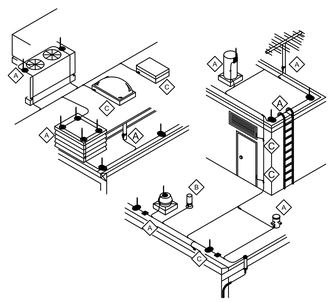
1. REFER TO SHEET E-320 FOR ALL WIRING AND SOLAR ARRAY WORK ON ROOF.
2. POTENTIAL AVAILABILITY OF RENEWABLE ENERGY SOURCE IS ~45 KW OF OFFSET ENERGY.
3. ARRAY CURRENTLY ORIENTATED SOUTH AT 27 DEG ON SINGLE ROW ARRAY FRAMING.



5 LIGHTNING PROTECTION GROUND ROD DETAIL
SCALE: NTS



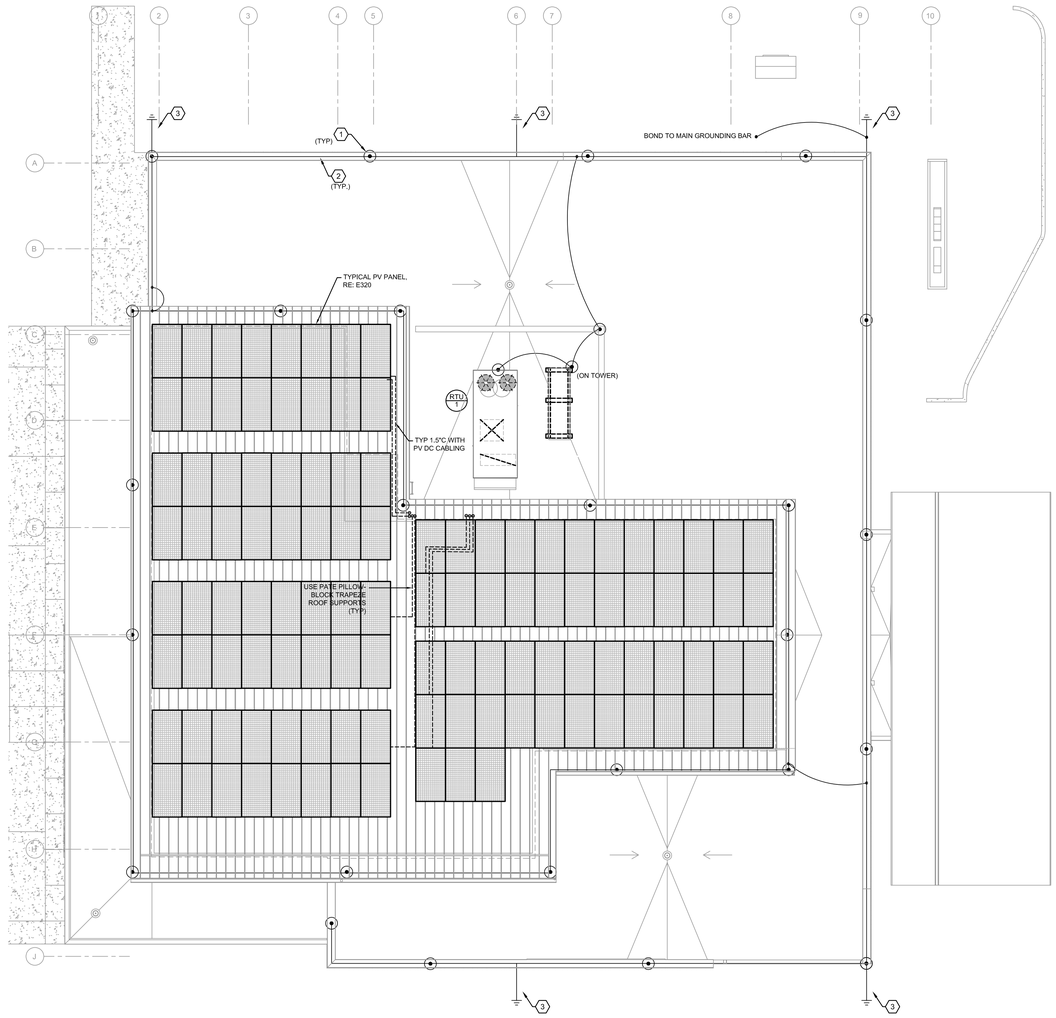
4 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: NTS



DETAIL NOTES

- A TYPICAL BODIES OF CONDUCTANCE AS NOTED BELOW. USE FULL SIZE CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
- B (PLUMBING STACK) REQUIRES BONDING WITH MAIN SIZE CABLE ONLY IF WITHIN 6'-0" (1,828mm) OF LIGHTNING PROTECTION SYSTEM.
- C TYPICAL BODIES OF INDUCTANCE AS NOTED BELOW. USE SECONDARY SIZE (SMALLER) CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
- D BONDING CONNECTIONS AND FITTINGS SHOWN ARE TYPICAL EXAMPLES. MAKE ALL CONNECTIONS REQUIRED TO MEED CODES AS NOTED BELOW. ADJUST FITTING TYPE AS REQUIRED TO SUIT FIELD CONDITIONS.

3 LIGHTNING PROTECTION AIR TERMINAL DETAIL
SCALE: NTS



1 LIGHTNING PROTECTION ROOF PLAN
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010020570
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

ROOF LIGHTNING PROTECTION PLAN

E-130

SHEET 94 OF 102

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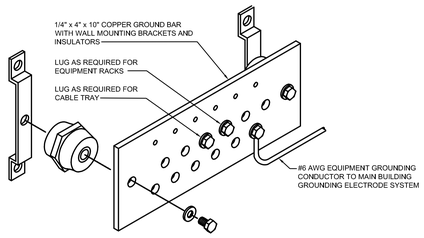
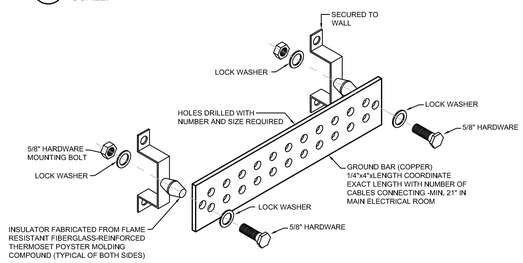
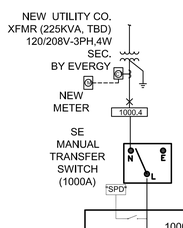


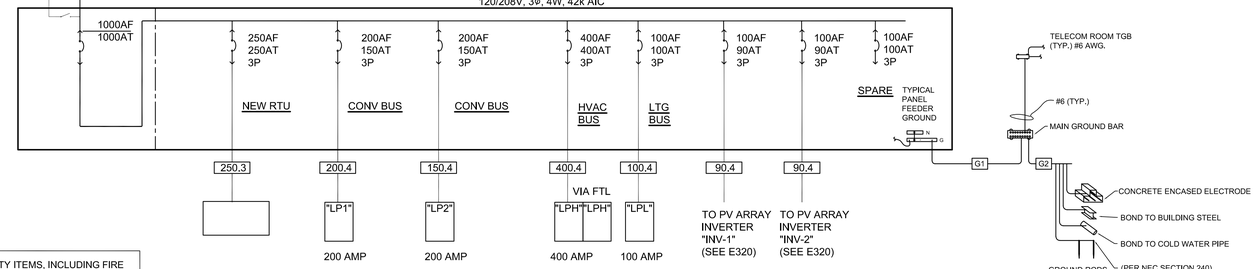
GENERAL NOTES APPLICABLE TO THIS DETAIL:
A. NOT ALL PARTS AND PART NUMBERS ARE SHOWN IN THE DETAIL. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION, INCLUDING MISCELLANEOUS APPURTENANCES REQUIRED BUT NOT SHOWN.
B. INSTALL A GROUND BAR IN EACH AND EVERY TELECOM ROOM AS SHOWN.

6 IT ROOM GROUND BAR DETAIL
SCALE: NTS



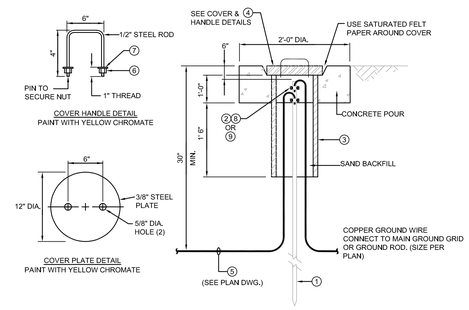
5 MAIN GROUND BAR DETAIL
SCALE: NTS





ALL LIFE SAFETY ITEMS, INCLUDING FIRE ALARM, EMERGENCY LIGHTING, ETC SHALL BE BATTERY SOURCE. NO GENERATOR SHALL BE INCLUDED WITH PROJECT.

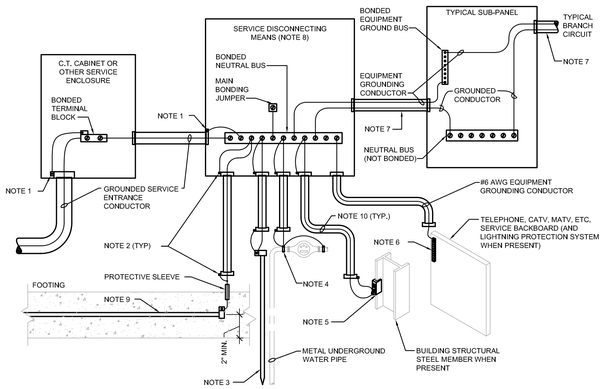
2 NEW WORK ONE-LINE DIAGRAM
SCALE: NOT TO SCALE



ITEM	BILL OF MATERIAL
1	GROUND ROD, 3/4" DIA. x 10' LONG, COPPER CLAD STEEL
2	CONNECTOR, #4 SOLID THRU #2/0 STR, CABLE TO GND. ROD, BURNDY #GAR-6426
3	PVC PIPE, 10" DIA. x 2'-6" LONG, SCHEDULE 40
4	COVER PLATE & HANDLE, FIELD FABRICATE PER DETAIL
5	GROUND WIRE, SDB COPPER
6	SQUARE NUT, 1/2", UNISTRUT #HSQN050EG
7	FLAT WASHER, 1/2", UNISTRUT #HFLW050EG
8	CONNECTOR, #2/0 SOLID THRU 250KCMIL STR, CABLE TO GND, ROD, BURNDY #GAR-6429
9	CONNECTOR, #8 SOLID THRU #4 STR, CABLE TO GND, ROD, BURNDY #GAR-644C

* FOR EACH ADDITIONAL CABLE CONNECTION ADD 1 CONNECTOR.

4 GROUND TEST WELL DETAIL
SCALE: NTS



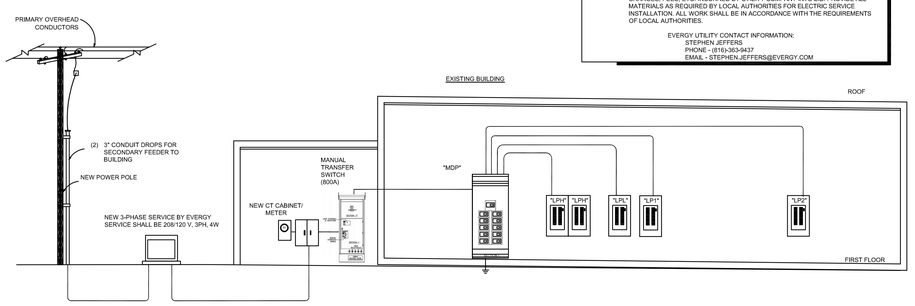
GENERAL NOTES APPLICABLE TO THIS DETAIL:
A. FOR CLARITY, PHASE CONDUCTORS ARE NOT SHOWN.
B. THE GROUND SYSTEM SHALL BE TESTED AND REPORT PROVIDED TO ENGINEER PER SPECIFICATIONS. MAXIMUM IMPEDANCE TO GROUND SHALL BE 5 OHMS. GROUND SYSTEM IMPEDANCE SHALL BE TESTED QUARTERLY TO ENSURE IMPEDANCE REQUIREMENTS ARE MET.

NOTES APPLICABLE TO THIS DETAIL:
1. ALL METAL CONDUITS ENCLOSING ANY SERVICE CONDUCTORS SHALL BE FITTED WITH A BONDING BUSHING. SIZE THE JUMPER PER NEC ARTICLE 250.
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A BONDING BUSHING AT EACH END. SIZE THE JUMPER PER NEC ARTICLE 250.
3. PROVIDE AT LEAST ONE SUPPLEMENTAL GROUNDING ELECTRODE PER NEC IN THE FORM OF A 10'-0" x 3/4" COPPER CLAD GROUND ROD INSTALLED PER CURRENT NEC ARTICLE 250 REQUIREMENTS.
4. CONNECT TO THE BUILDING'S METAL UNDERGROUND WATER PIPE WITHIN 5'-0" OF ITS ENTRANCE INTO THE BUILDING AND JUMPER ANY WATER METER PER NEC REQUIREMENTS.
5. IF STRUCTURAL STEEL MEMBER IS AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDED LUG.
6. PROVIDE AN EQUIPMENT GROUND BAR AND ATTACH IT TO THE PHONE BOARD.
7. ALL BRANCH CIRCUIT AND FEEDER CONDUITS ARE TO HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR REGARDLESS OF THE CONDUIT MATERIAL.
8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.
9. PROVIDE A GROUNDING ELECTRODE ENCASED IN AT LEAST 2" OF CONCRETE AND LOCATED NEAR THE BOTTOM OF A CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH EARTH. GROUNDING ELECTRODE SHALL CONSIST OF AT LEAST 20'-0" OF ONE OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2" IN DIAMETER OR AT LEAST 20'-0" OF #4 AWG BARE COPPER CONDUCTOR. THIS CONCRETE ENCASED GROUNDING ELECTRODE IS ALSO KNOWN AS A "UFER" GROUND.
10. WHERE A GROUNDING ELECTRODE CONDUCTOR IS SPECIFIED ELSEWHERE IN THE DRAWINGS, THAT SIZE SHALL APPLY TO ALL GROUNDING ELECTRODE CONDUCTORS SHOWN ON THIS DETAIL.

3 SERVICE ENTRANCE GROUND DETAIL
SCALE: NTS

RISER & ONE-LINE DIAGRAM SCHEDULE

TAG	OCPD	SETS	3-P CONDUCTORS	NEUTRAL	GROUND	CONDUIT	NOTES
1000.4	1000A	3	400 KCMIL	400 KCMIL	#2/0 AWG	3"	RE: CONDUIT APPLICATION SCHEDULE
400.4	400A	2	#3/0 AWG	-	#3 AWG	2"	RE: CONDUIT APPLICATION SCHEDULE
200.4	200A	1	#3/0 AWG	-	#6 AWG	2"	RE: CONDUIT APPLICATION SCHEDULE
150.4	150A	1	#1/0 AWG	#1/0 AWG	#6 AWG	2"	RE: CONDUIT APPLICATION SCHEDULE
150.3	150A	1	#1/0 AWG	-	#6 AWG	1-1/2"	RE: CONDUIT APPLICATION SCHEDULE
100.4	100A	1	#3 AWG	#3 AWG	#8 AWG	1-1/4"	RE: CONDUIT APPLICATION SCHEDULE
90.4	90A	1	#3 AWG		#8 AWG	1-1/4"	RE: CONDUIT APPLICATION SCHEDULE
50.3	50A	1	#6 AWG	-	#10 AWG	1"	RE: CONDUIT APPLICATION SCHEDULE
G1							
G2							



1. COORDINATE WITH AEP/SWEPCO FOR ADDITIONAL REQUIREMENTS AND FOR ROUTING OF ALL UTILITIES OUTSIDE THE BUILDING. ALL TRENCHING AND SECONDARY CONDUITS TO BUILDING SHALL BE BY CONTRACTOR.
2. CONTRACTOR SHALL CONTACT EVERGY ELECTRIC AND ARRANGE FOR ELECTRIC SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. INCURRED BY UTILITY COMPANY INTO BID. PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL AUTHORITIES FOR ELECTRIC SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL AUTHORITIES.

EVERGY UTILITY CONTACT INFORMATION:
STEPHEN JEFFERS
PHONE - (816)-363-9437
EMAIL - STEPHEN.JEFFERS@EVERGY.COM

1 NEW WORK RISER DIAGRAM
SCALE: NOT TO SCALE

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009678
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

ELECTRICAL RISERS AND DETAILS

E-300

SHEET 95 OF 102

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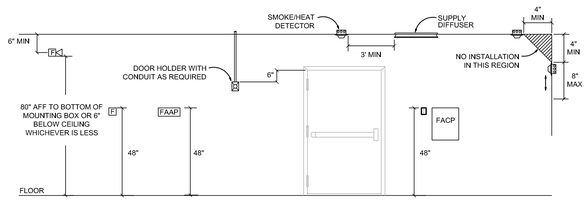


NOTES:

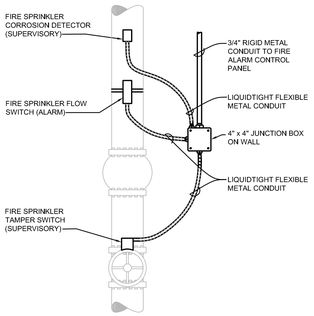
1. TYPICAL MOUNTING HEIGHTS UNLESS OTHERWISE NOTED.

NOTE:

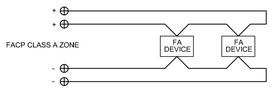
TYPICAL MOUNTING HEIGHTS UNLESS NOTED OTHERWISE.

AJUST MOUNTING HEIGHT TO BLOCK COURSING WHERE APPLICABLE.

5 ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL
SCALE: N.T.S.



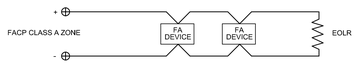
6 FIRE SPRINKLER CONNECTION DETAIL
SCALE: NTS



NOTES:

1. PROVIDE A POSITIVE "PAIR" OF WIRES AND A NEGATIVE "PAIR" OF WIRES FROM FIRE ALARM CONTROL PANEL OUT TO EACH DEVICE.
2. IF A BREAK OCCURS ANYWHERE IN THE CIRCUIT, EVERY DEVICE SHALL REMAIN ACTIVE. A TROUBLE ALARM SHALL BE ACTIVATED AT THE FIRE ALARM CONTROL PANEL.

4 CLASS A FIRE ALARM WIRING
SCALE: N.T.S.



NOTES:

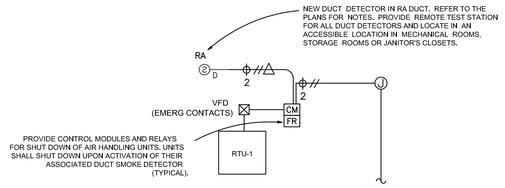
1. PROVIDE TWO (2) WIRES OUT TO EACH DEVICE AND AN END OF LINE RESISTOR AT THE END OF THE CIRCUIT.
2. FIRE ALARM CONTROL PANEL SHALL MEASURE THE CURRENT BEING CONSUMED IN THE CIRCUIT. IF THE PANEL DETECTS TOO LITTLE CURRENT - INDICATIVE OF AN "OPEN" CIRCUIT, A TROUBLE ALARM SHALL SOUND. IF THE PANEL DETECTS TOO HIGH CURRENT - INDICATIVE OF A "SHORT", AN ALARM CONDITION SHALL OCCUR.
3. IF A BREAK IN THE CIRCUIT OCCURS, DEVICES DOWNSTREAM OF THE BREAK WILL BE INOPERABLE UNTIL THE BREAK IN THE CIRCUIT IS REPAIRED.

3 CLASS B FIRE ALARM WIRING
SCALE: N.T.S.

FIRE ALARM SYSTEM

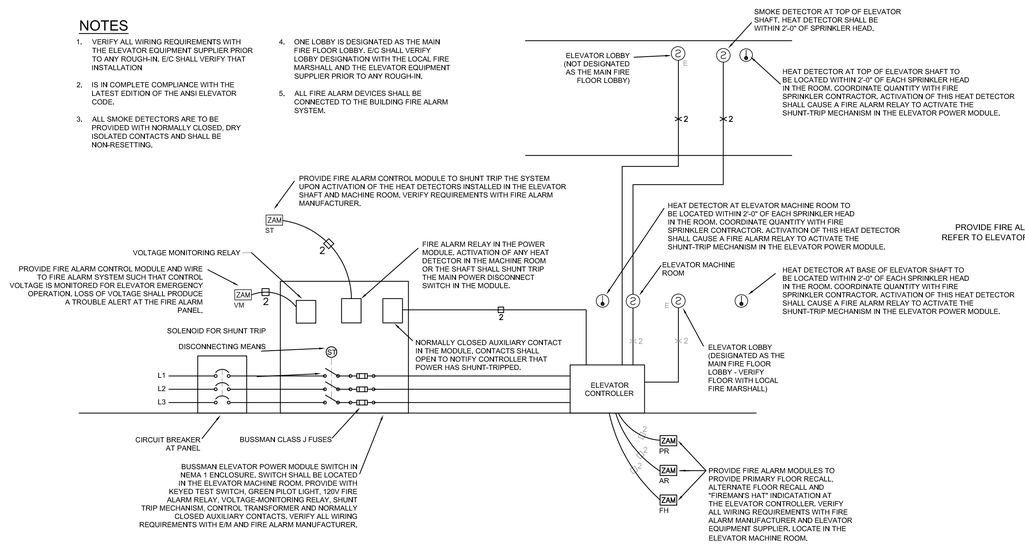
SEQUENCE OF OPERATION		
ACTIVATED DEVICE	LOCATION	ACTION
CEILING SMOKE DETECTOR	CORRIDORS/LOBBIES	GENERAL BUILDING ALARM
SMOKE ALARM WITH SOUNDER	RESIDENT ROOMS	LOCALIZED ALARM
MANUAL PULL STATION	ALL FLOORS EXITS	GENERAL BUILDING ALARM
DOOR HOLD OPEN	ALL FLOORS	GENERAL BUILDING ALARM DOORS CLOSE
HEAT DETECTOR	ELEVATOR SHAFTS	SHUNT ELEVATOR POWER MODULE FIREMAN'S HAT AT THE ELEVATOR CAB GENERAL BUILDING ALARM SHUT-OFF ALL MECHANICAL HVAC EQUIPMENT VIA RELAY
SPRINKLER WATER FLOW SWITCH	ALL FLOORS	GENERAL BUILDING ALARM SHUT OFF ALL MECHANICAL HVAC EQUIPMENT VIA RELAY

NOTE: 1. SEQUENCE OF OPERATION IS SUBJECT TO APPROVAL BY LOCAL FIRE MARSHALL AND CODE OFFICIAL.
NOTE: 2. ALL INITIATING DEVICES SHALL BE ADDRESSABLE. MAPNET TYPE
NOTE: 3. THE EXISTING SYSTEM AND FIRE ALARM CONTROL PANEL DOES NOT HAVE MASS COMMUNICATION CAPABILITY OR UL RATINGS.

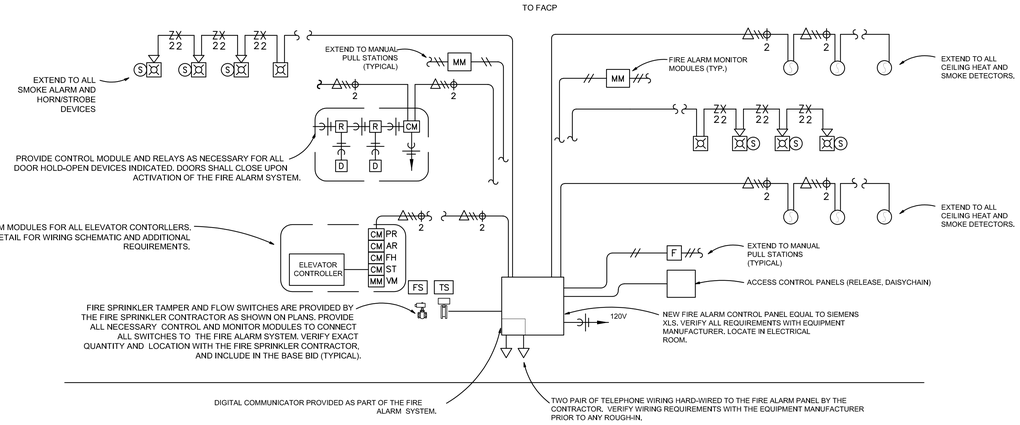


NOTES

1. VERIFY ALL WIRING REQUIREMENTS WITH THE ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN. E/C SHALL VERIFY THAT INSTALLATION
2. IS IN COMPLETE COMPLIANCE WITH THE LATEST EDITION OF THE ANSI ELEVATOR CODE.
3. ALL SMOKE DETECTORS ARE TO BE PROVIDED WITH NORMALLY CLOSED, DRY ISOLATED CONTACTS AND SHALL BE NON-RESETTING.
4. ONE LOBBY IS DESIGNATED AS THE MAIN FIRE FLOOR LOBBY. E/C SHALL VERIFY LOBBY DESIGNATION WITH THE LOCAL FIRE MARSHALL AND THE ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ANY ROUGH-IN.
5. ALL FIRE ALARM DEVICES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.



2 MACHINE-LESS ELEVATOR WIRING SCHEMATIC
SCALE: NTS



FIRE ALARM WIRING LEGEND:

- FIREFIGHTERS TELEPHONE CABLE
- STROBE CABLE
- SPEAKER CABLE
- ZAM POWER
- MAPNET CABLE
- SINGLE STATION SMOKE DETECTOR MONITOR CABLE
- DUCT DETECTOR POWER

GENERAL FIRE ALARM NOTES:

1. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE ALL DEVICES WITH THE NEW FIRE ALARM SYSTEM. CONTRACTOR SHALL CONTACT E/M FOR EXTENSION OF THE SYSTEM IF REQUIRED, AND INCLUDE ANY EXTRAS INCURRED BY THE MANUFACTURER TO ACCOMODATE NEW DEVICES, EXTENDER/TRANSPONDER PANELS, AND 120V CIRCUITS. THIS SHALL BE INCLUDED IN BASE BID. FIRE ALARM EQUIPMENT SHOPS, WIRING, AMPERAGE CALCULATIONS, AND LAYOUT SHALL BE SUBMITTED FOR REVIEW PRIOR TO FINAL ACCEPTANCE.
2. THIS FIRE ALARM RISER DIAGRAM IS FOR SCHEMATIC PURPOSES ONLY. REFER TO THE PLANS FOR DEVICE LOCATIONS AND QUANTITIES. THE E/C SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH THE SHOP DRAWING SUBMITTAL WITH EACH DEVICE LOCATED ON THE PLANS (AND ITS ADDRESS) AND ALL WIRING REQUIREMENTS.
3. VERIFY ALL WIRING REQUIREMENTS WITH THE FIRE ALARM MANUFACTURER PRIOR TO ANY ROUGH-IN. INCLUDE ALL WIRING REQUIREMENTS IN THE BASE BID

1 FIRE ALARM RISER DIAGRAM
SCALE: NTS

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009878
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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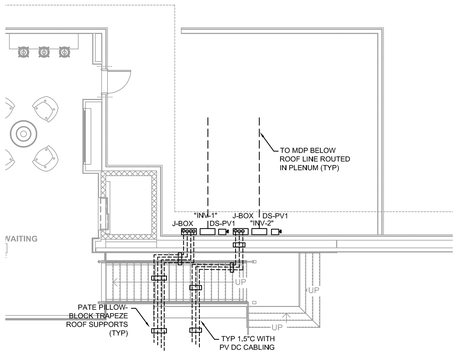
SHEET TITLE

FIRE ALARM DIAGRAMS

E-310

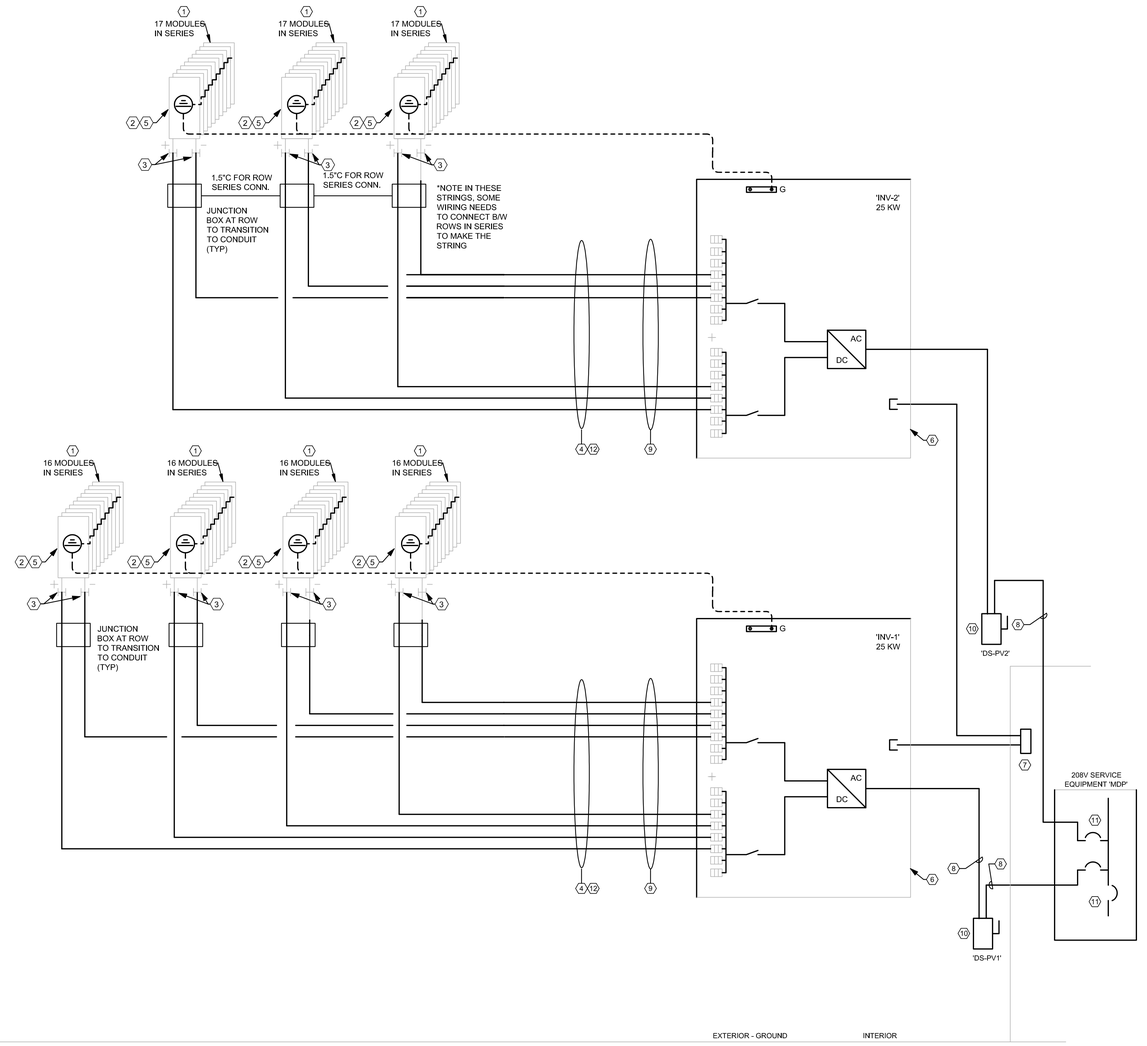
SHEET 96 OF 102

8/11/2024 10:09:20 PM



1 PHOTOVOLTAIC EQUIPMENT ROOF PLAN

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



1 PHOTOVOLTAIC SYSTEM RISER DIAGRAM

SCALE: NTS

GENERAL NOTES:

A. REFER TO SPECIFICATIONS FOR ADDITIONAL MATERIALS AND INSTALLATION REQUIREMENTS. SEE POWER PLANS FOR EQUIPMENT LOCATIONS. SEE ONE-LINE DIAGRAM FOR METERING REQUIREMENTS.

B. TORQUE WIRE TERMINATIONS AND RACKING PER MANUFACTURER RECOMMENDATIONS WITH CALIBRATED TORQUE LIMITING DEVICES.

C. OBTAIN APPROVAL FROM UTILITY PRIOR TO PARALLELING SOLAR INVERTER WITH GRID. FURNISH ELECTRICAL INSPECTOR WITH COPY OF APPROVED UTILITY DISTRIBUTED APPLICATION.

D. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.

E. ALL EQUIPMENT SPECIFIED ON THIS SHEET DENOTES THE BASIS OF DESIGN, REFER TO THE SPECIFICATIONS AND NOTES REGARDING PERFORMANCE CHARACTERISTICS FOR ADDITIONAL APPROVED VENDORS AND REQUIREMENTS.

F. DIAGRAM IS SCHEMATIC ONLY.

KEYNOTES:

1. TRINA SOLAR TSM-DE16M OR EQUAL SOLAR MODULES UL LISTED FOR 1500VDC USE. EACH MODULE HAS A RAPID SHUTDOWN DEVICE MOUNTED TO FRAME, WITH RAPID SHUTDOWN DEVICES SERIES CONNECTED IN 14-MODULE STRINGS.
2. PROVIDE MINIMUM 1000V, #10 BLACK PV WIRE (UL4703, 90 DEGREE WET RATING, 150 DEGREE DRY) CONNECTORIZED JUMPERS BETWEEN ROWS VIA RAYTRAY WIRE MANAGEMENT AND PERMANENTLY LABEL JUMPER ENDS WITH POLARITY AND SOURCE CIRCUIT NUMBER. PERMANENTLY LABEL MODULE LEADS THAT REPRESENT THE POSITIVE AND NEGATIVE OF THE OVERALL STRING. PROVIDE RAYTRAY RPVC SOLAR WIRE MANAGEMENT SYSTEM WITH CAP INSTALLED BETWEEN MODULE ROWS FOR PROTECTION FROM MOVING SNOW AND ICE.
3. PROVIDE MINIMUM 1500V, #10 BLACK PV WIRE (UL4703, 90 DEGREE WET RATING, 150 DEGREE DRY) HOME RUN CABLES FROM STRING END TO INVERTER DC CONNECTION BOX WITHOUT SPLICING. LABEL PV SOURCE CIRCUIT NUMBER AND POLARITY AT BOTH ENDS.
4. TRANSITION FROM OPEN WIRE TO 1-1/2" EMT CONDUIT WITH WEATHERTIGHT FITTINGS UNDER PROTECTION OF MODULE COVER AT JUNCTION BOX AT END OF ROWS.
5. SECURE WIRE IN A NEAT AND WORKMANLIKE MANNER, KEEPING EXPOSED CABLE AS HIGH OFF OF ROOF AS POSSIBLE AND TUCKED INTO THE INNER PORTION OF MODULE FRAME WHERE POSSIBLE. USE STAINLESS STEEL HEYCO CABLE CLIPS ATTACHED TO MODULE FRAMES AND/OR RACKING COMPONENTS AT INTERVALS THAT KEEP WIRE SECURED WITH MINIMAL STRAIN THAT COULD RESULT IN CABLE PULLING FROM CLIP.
6. CPS SCA25KTL-DO/US-208, 25KW, 208/3ph, NEMA 4X INVERTER OR EQUAL WITH INTEGRAL DC DISCONNECTING MEANS, DC ARC-FAULT CIRCUIT PROTECTION, AND RAPID SHUTDOWN SUSPEC DC POWERLINE SIGNALLING INITIATED BY LOSS OF AC CONNECTION VOLTAGE. VERIFY OPERATION OF RAPID SHUTDOWN UPON SYSTEM BECOMING OPERABLE. PROVIDE WITH 20A PV STRING FUSING
7. PROVIDE A 3/4" CONDUIT AND CAT-6 DATA CABLE TO SOLAR INVERTER. COORDINATE WITH SOLAR CONTRACTOR FOR TERMINATION REQUIREMENTS. WEB-BASED MONITORING ACCESS FOR INVERTER SHALL BE MADE AVAILABLE TO OWNER AND ENGINEER. COORDINATE WITH OWNER'S IT DEPARTMENT FOR NETWORK CONNECTION REQUIREMENTS.
8. 3#3, #3N, #6G-1-1/4"C. AC INVERTER OUTPUT CIRCUIT WITH COMBINED DC GROUND ELECTRODE CONDUCTOR (GEC) AND AC EQUIPMENT GROUNDING CONDUCTOR (EGC) PER NEC 690.47(B).
9. INCLUDE A #6 EQUIPMENT GROUNDING CONDUCTOR FOR ARRAY GROUNDING, SIZED PER NEC 690.45. CONNECT TO AEROCOMPACT RACKING PER MANUFACTURER UL 2703 CERTIFIED METHOD.
10. 100/3, 600V, NEMA 3R, NON-FUSED, KNIFE-BLADE DISCONNECT FOR OPPD AS REDUNDANT GRID ISOLATION FEATURE, PROVIDE WITH NEUTRAL TERMINATION (PROVISION FOR UTILITY TO GROUND). DISCONNECT SHALL BE LOCKABLE.
11. CONNECT TO BREAKER IN MDP AS SHOWN ON ONE-LINE DIAGRAM.
12. UNGROUNDED DC SYSTEM PER NEC 690.12 AND 690.35, UTILIZE #10 PV WIRE LISTED FOR A MINIMUM OF 1000V.

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010002175
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver

SHEET TITLE

PV ARRAY DIAGRAMS

E-320

SHEET 96 OF 102

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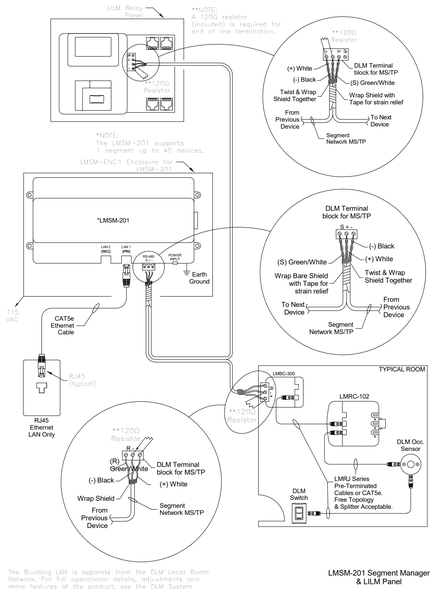
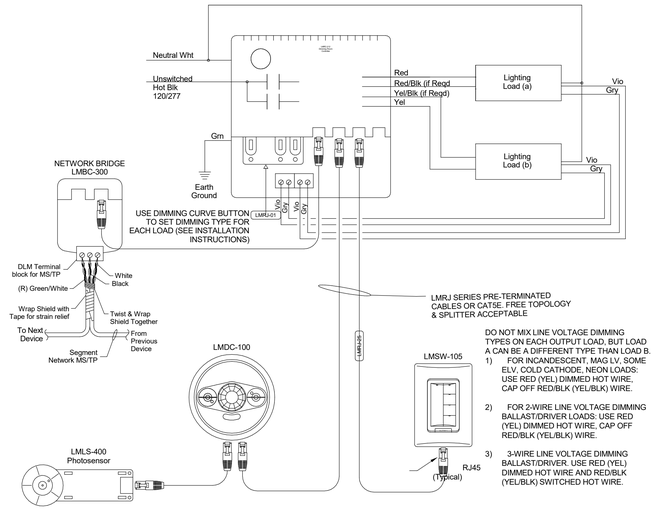
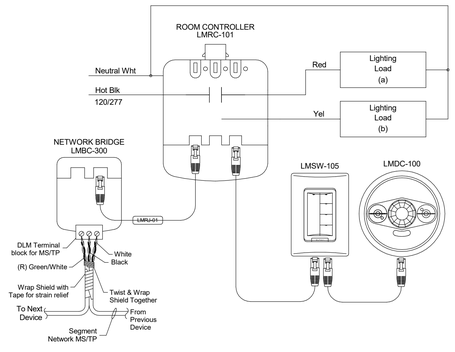


LMSM-201 Segment Manager & LILM Panel

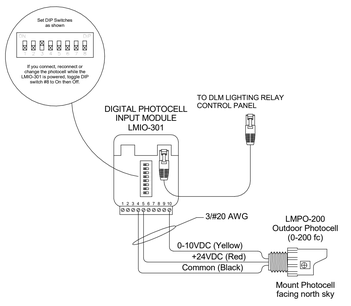
4 DLM LIGHTING CONTROL SEGEMENT DIAGRAM
SCALE: N.T.S.



2 DIMMING CONTROL WIRING DIAGRAM W/ DAYLIGHT
SCALE: N.T.S.



1 DLM LIGHTING CONTROL WIRING DIAGRAM
SCALE: N.T.S.



5 DLM PHOTOCELL WIRING DIAGRAM
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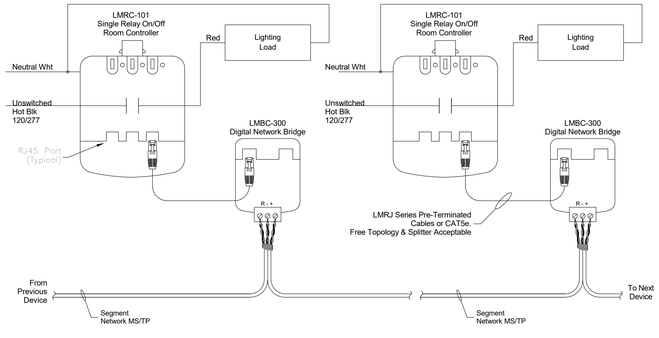

4 DLM LIGHTING CONTROL NETWORK DIAGRAM
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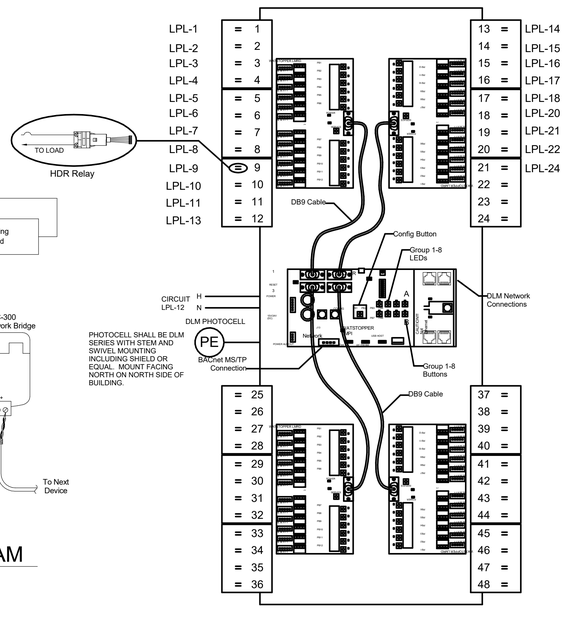

3 DLM LIGHTING CONTROL PANEL
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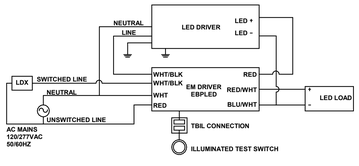

6 EMERGENCY BATTERY WIRING DIAGRAM
SCALE: N.T.S.

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CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI CORY WILSON 10.22.2024 NUMBER PE-2010009876 PROFESSIONAL ENGINEER

Cory Wilson - MO #PE-2010009876
Certificate of . 10-21-2024 #2024005146

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Hangar 2.rvt
DESIGNED BY:	SH
DRAWN BY:	OH
CHECKED BY:	AF
APPROVED BY:	TWD

SHEET TITLE

ELECTRICAL DETAILS

E-400

SHEET OF

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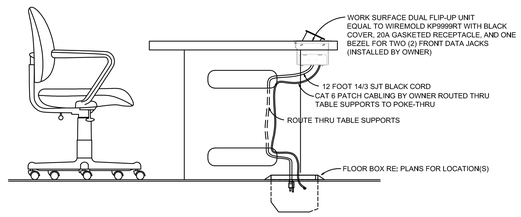
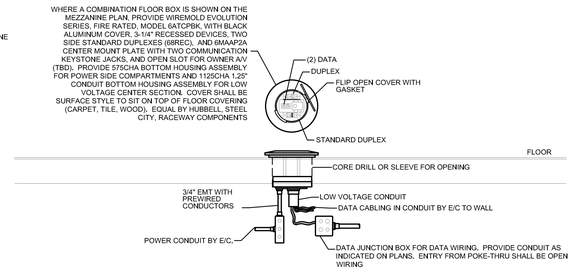
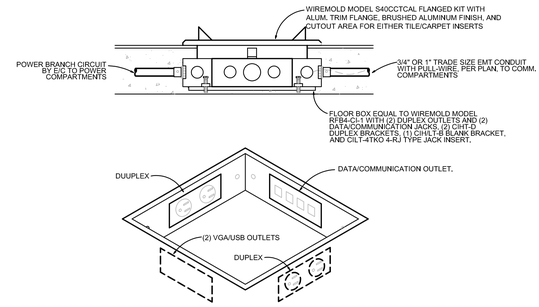


10 WORK SURFACE MODULE INSTALLATION DETAIL
SCALE: N.T.S.



11 POKE-THRU FLOOR BOX DETAIL
SCALE: NTS

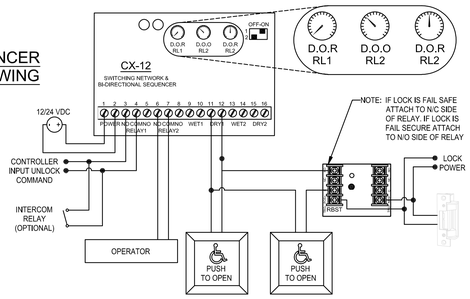


A1 LARGE BOX - CONFERENCE ROOMS

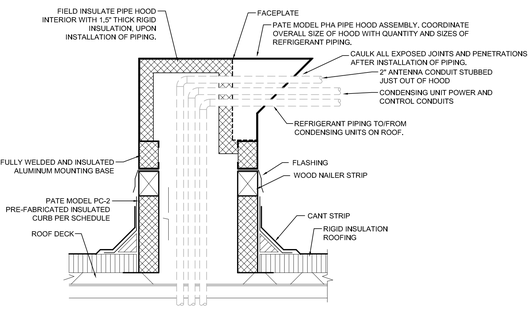
4 FLOOR BOX DETAIL
SCALE: NTS

ADA INTERFACE MODULE - DOOR SEQUENCER
ADA INTERFACE SHALL MEET THE FOLLOWING FEATURES AND FUNCTIONS:

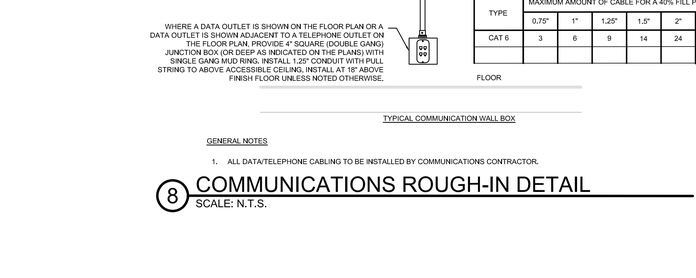
A. DISABLE EXTERIOR BUTTON FROM TRIGGERING DOOR OPERATOR WHEN DOOR LOCK IS IN LOCKED POSITION.
B. ALLOW EXTERIOR BUTTON TO ACTIVATE THE OPERATOR WHEN DOOR LOCK IS IN UNLOCKED POSITION BY ANY OF THE FOLLOWING MEANS: CARD READ, INTERCOM, OR SCHEDULED UNLOCK EVENT.
C. ALLOW INTERIOR BUTTON TO UNLOCK DOOR AND ACTIVATE THE OPERATOR AFTER A SHORT DELAY TO ENSURE DOOR IS FULLY UNLOCKED BEFORE OPERATING.
D. THE CX-12 IS THE PREFERRED MODULE DUE TO ITS ABILITY TO SEQUENCE TWO RELAYS WITH A TIME DELAY, HOWEVER, IT DOES NOT FULLY COMPLETE THE DESIRED TASK, THUS A SECONDARY RELAY MUST BE USE TO ACTUALLY DISABLE THE OUTSIDE BUTTON. THE SECONDARY RELAY SHALL BE INSTALLED IN PARALLEL WITH LOCK POWER.
E. INSIDE AND OUTSIDE BUTTONS MUST BE ISOLATED AT THE OPERATOR IN ORDER TO PROPERLY FUNCTION, IF THE BUTTONS ARE WIRELESS THEY MUST BE ISOLATED ON A SEPARATE CHANNEL BY MEANS OF A DIFFERENT TRANSMITTER / RECEIVER SET.

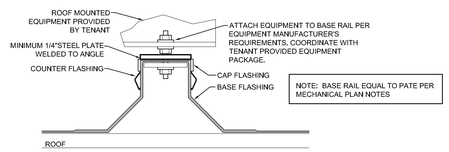


7 ACCESS CONTROL SYSTEM ADA DOOR INTERFACE
SCALE: NTS

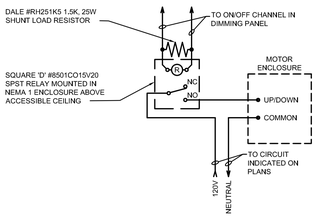


3 PIPE CURB DETAIL
SCALE: NONE

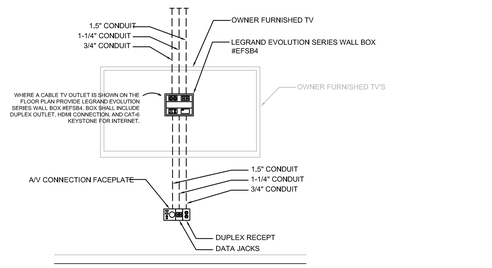




9 ROOF EQUIPMENT/ANTENNA SUPPORT
SCALE: NONE

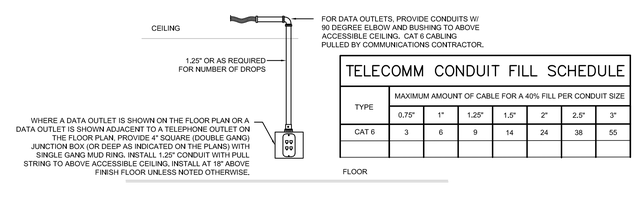


A/V EQUIPMENT CONTROL DETAIL



6 TYPICAL A/V SCREEN DETAIL
SCALE: NTS

2 TYPICAL A/V ROUGH-IN DETAIL
SCALE: NTS



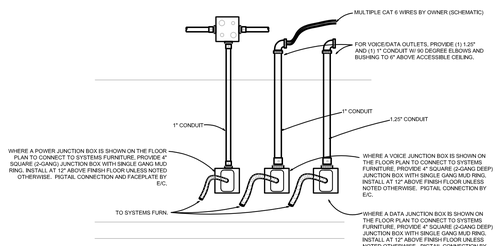
TELECOMM CONDUIT FILL SCHEDULE							
TYPE	MAXIMUM AMOUNT OF CABLE FOR A 40% FILL PER CONDUIT SIZE						
	0.75"	1"	1.25"	1.5"	2"	2.5"	3"
CAT 6	3	6	9	14	24	38	55

TYPICAL COMMUNICATION WALL BOX

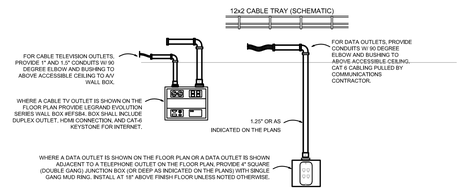
GENERAL NOTES

1. ALL DATA/TELEPHONE CABLING TO BE INSTALLED BY COMMUNICATIONS CONTRACTOR.

8 COMMUNICATIONS ROUGH-IN DETAIL
SCALE: N.T.S.



5 SYSTEMS FURNITUREROUGH-IN DETAILS
SCALE: NTS



A) CABLE TELEVISION LOCATIONS B) TYPICAL COMMUNICATION WALL BOX

NOTES:
1. ALL DATA/TELEPHONE CABLING TO BE INSTALLED BY OWNER.
2. DESIGNATION NEXT TO SYMBOL ON DRAWING INDICATES NUMBER OF CABLE DROPS FOR EACH OUTLET, FOR REFERENCE ONLY.

1 COMMUNICATIONS ROUGH-IN DETAILS
SCALE: NTS

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WELLNER ARCHITECTS + engineers
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108

OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
NUMBER PE-2010009878
PROFESSIONAL ENGINEER
11.26.2024

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

ELECTRICAL DETAILS

E-410

SHEET 98 OF 102

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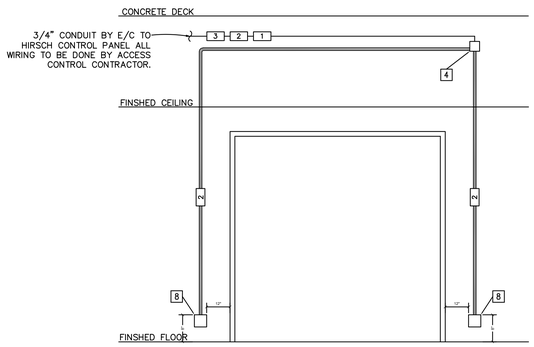
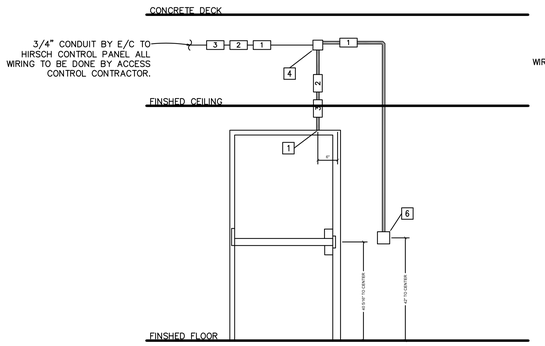


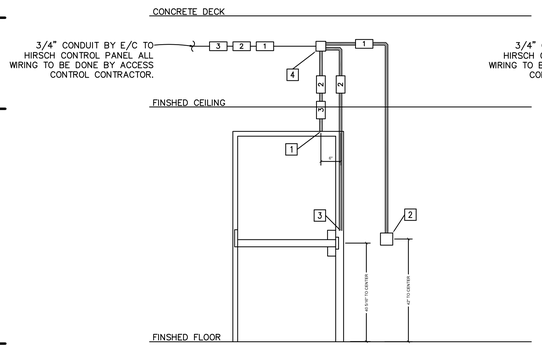
A SLIDER DOOR WITH DOOR CONTACT, CARD READER, REQUEST TO EXIT

NOT TO SCALE



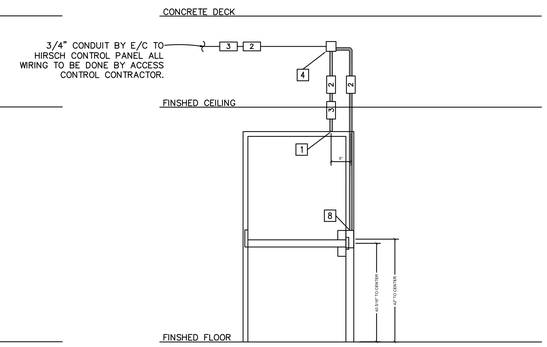
B SINGLE DOOR WITH DOOR CONTACT, MAG LOCK CARD READER, REQUEST TO EXIT, ELECTRIC HINGE

NOT TO SCALE



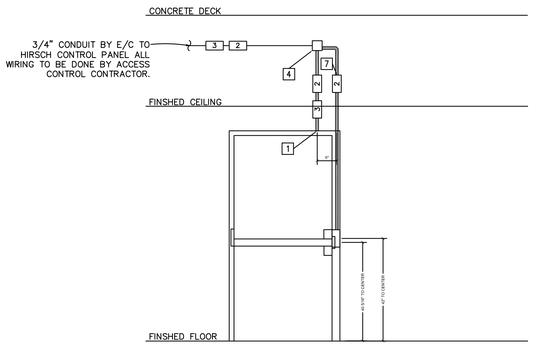
C SINGLE DOOR WITH DOOR CONTACT, ELECTRONIC STRIKE, CARD READER, REQUEST TO EXIT

NOT TO SCALE



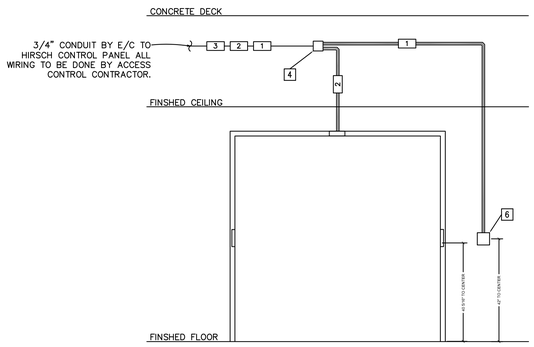
D SINGLE DOOR WITH DOOR CONTACT, ELECTRONIC STRIKE, (2) CARD READERS, REQUEST TO EXIT

NOT TO SCALE



E SINGLE DOOR WITH DOOR CONTACT, ELECTRONIC STRIKE, CARD READER, REQUEST TO EXIT

NOT TO SCALE



F SLIDER DOOR WITH DOOR CONTACT, CARD READER, REQUEST TO EXIT

NOT TO SCALE

1 [4] PROVIDE 1/2" EMT CONDUIT STUBBED INTO DOOR FRAME FOR DOOR CONTACT AND REQUEST TO EXIT SENSOR.

2 [2] PROVIDE (2) 4 SQ JBOX MOUNTED 42" TO CENTER FROM FINISHED FLOOR ON SECURE AND UNSECURE SIDE OF DOOR. OFFSET JUNCTION BOXES BY 10" HORIZONTALLY TO KEEP READERS FROM INTERFERING WITH EACH OTHER. PROVIDE SINGLE GANGE MUD RING SIZED FOR DEPTH OF FINISHED WALL, PROVIDE 1/2" EMT STUBBED TO JUNCTION BOX.

3 [3] PROVIDE 1/2" EMT STUBBED INTO DOOR FRAME TO STRIKE POCKET.

4 [4] PROVIDE 6"x6"x4" JUNCTION BOX MOUNTED ABOVE FINISHED CEILING AND BELOW CONCRETE DECK. CONNECT ALL EMT CONDUITS TO THIS JUNCTION BOX.

5 [5] VERIFY ACCESSABLE PATHWAY FROM CONDUIT STUB TO SECOND DOOR CONTACT.

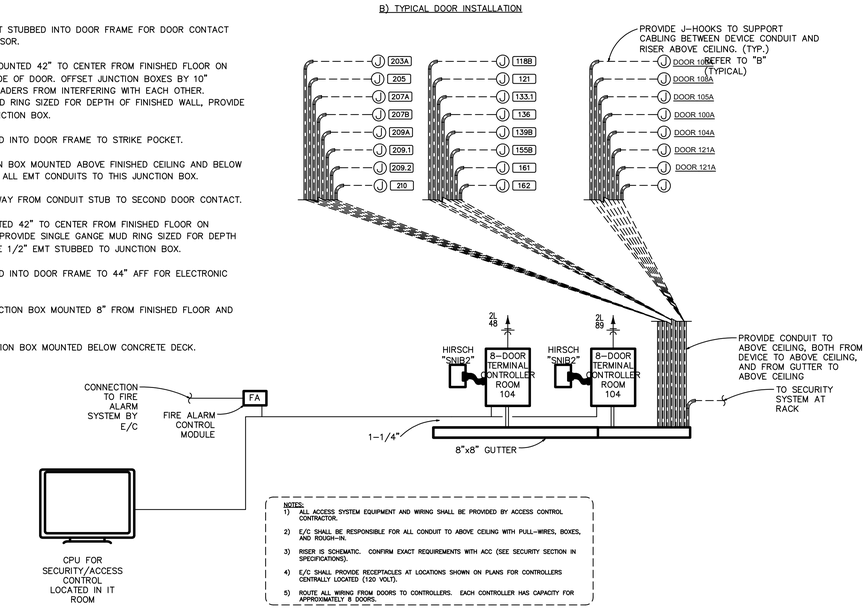
6 [6] PROVIDE 4 SQ JBOX MOUNTED 42" TO CENTER FROM FINISHED FLOOR ON UNSECURE SIDE OF DOOR. PROVIDE SINGLE GANGE MUD RING SIZED FOR DEPTH OF FINISHED WALL, PROVIDE 1/2" EMT STUBBED TO JUNCTION BOX.

7 [7] PROVIDE 1/2" EMT STUBBED INTO DOOR FRAME TO 44" AFF FOR ELECTRONIC STRIKE & CARD READER.

8 [8] PROVIDE SINGLE GANG JUNCTION BOX MOUNTED 8" FROM FINISHED FLOOR AND 12" FROM DOOR FRAME.

9 [9] PROVIDE 4" SQUARE JUNCTION BOX MOUNTED BELOW CONCRETE DECK.

B) TYPICAL DOOR INSTALLATION



NOTES:
1) ALL ACCESS SYSTEM EQUIPMENT AND WIRING SHALL BE PROVIDED BY ACCESS CONTROL CONTRACTOR.
2) E/C SHALL BE RESPONSIBLE FOR ALL CONDUIT TO ABOVE CEILING WITH PULL-WIRES, BOXES, AND ROUGH-IN.
3) RISER IS SCHEMATIC. CONFIRM EXACT REQUIREMENTS WITH ACC (SEE SECURITY SECTION IN SPECIFICATIONS).
4) E/C SHALL PROVIDE RECEPTACLES AT LOCATIONS SHOWN ON PLANS FOR CONTROLLERS CENTRALLY LOCATED (120 VOLT).
5) ROUTE ALL WIRING FROM DOORS TO CONTROLLERS. EACH CONTROLLER HAS CAPACITY FOR APPROXIMATELY 8 DOORS.

A) SYSTEM RISER

1 ACCESS SYSTEM DETAIL

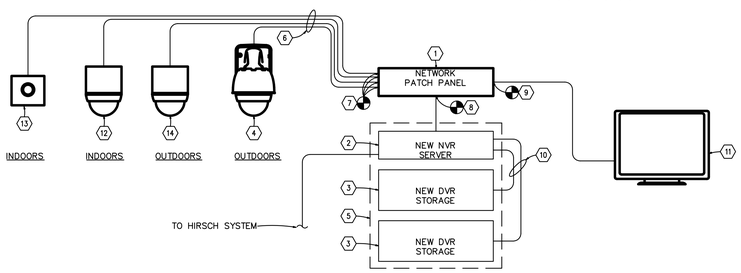
SCALE: N.T.S.

SECURTIY EQUIPMENT WIRING LEGEND

1	4 - #22 SHIELDED CARD READER CIRCUIT
2	2 - #18 REQUEST TO EXIT CIRCUIT
3	2 - #22 DOOR CONTACT CIRCUIT

NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING NETWORK PATCH PANEL TO SERVE NEW IP SECURITY CAMERA SYSTEM. COORDINATE ALL EXISTING NETWORK REQUIREMENTS AND LOCATION WITH OWNER.
2. NEW NETWORK VIDEO RECORDER (NVR) EQUIVALENT TO AMERICAN DYNAMICS VIDECEDGE IP NVR, 2U. NEW NETWORK VIDEO RECORDER SHALL COME AS A PRECONFIGURED BUNDLED SERVER PACKAGE INCLUDING SOFTWARE AND LICENSING, AND SHALL BE SUITABLE FOR RACK MOUNTING.
3. NEW RAID STORAGE SYSTEM EQUIVALENT TO AMERICAN DYNAMICS 30TB. RAID STORAGE SYSTEM SHALL HAVE A CAPACITY OF 30.0 TB OR HIGHER.
4. NEW SECURITY CAMERAS OUTDOORS. SECURITY CAMERAS TO BE EQUIVALENT TO AXIS #215 PTZ-E. PROVIDE WITH VANDAL RESISTANT OUTDOOR PENDANT HOUSING WITH SMOKE COLOR, BASE MOUNT ADAPTER, AND MOUNTING ARM ACCESSORIES REQUIRED SUITABLE FOR MOUNTING ON WALL. SECURITY CAMERAS SHALL BE POWERED BY THE NETWORK ETHERNET CONNECTION. CONFIRM ALL MOUNTING REQUIREMENTS AND ACCESSORIES WITH SECURITY SYSTEM MANUFACTURER.
5. CONTRACTOR SHALL PROVIDE NEW COMPONENT RACK FOR MOUNTING NEW NVR SERVER AND RAID STORAGE COMPONENTS AS REQUIRED. CONFIRM SIZE AND TYPE OF RACK WITH SECURITY SYSTEM MANUFACTURER AND COORDINATE WITH OWNER FOR NEW LOCATION OF RACK.
6. PROVIDE CAT-6 CABLING OR OTHER TYPE OF CABLING AS REQUIRED BY SECURITY MANUFACTURER FROM NETWORK PATCH PANEL TO NEW SECURITY CAMERAS. CONFIRM ALL CABLING REQUIREMENTS WITH SECURITY SYSTEM MANUFACTURER.
6. PROVIDE AND CONNECT NEW CAT-6 CABLING TO NEW NETWORK PATCH PANEL. CONFIRM ALL CABLING TYPE AND REQUIREMENTS WITH SECURITY SYSTEM MANUFACTURER.
7. PROVIDE AND CONNECT NEW CAT-6 CABLING FROM NEW NVR SERVER TO NEW NETWORK PATCH PANEL. CONFIRM ALL CABLING TYPE AND REQUIREMENTS WITH SECURITY SYSTEM MANUFACTURER.
8. PROVIDE NEW CAT-6 CABLING FROM NEW NVR SERVER AND CONNECT TO EXISTING NETWORK PATCH PANEL. CONFIRM ALL CABLING TYPE AND REQUIREMENTS WITH SECURITY SYSTEM MANUFACTURER.
9. IF REQUIRED, CONTRACTOR SHALL PROVIDE NEW CAT-6 CABLING FROM NEW NETWORK PATCH PANEL TO NEW HOST COMPUTER.
10. PROVIDE NEW SCSI CABLING FROM NEW NVR SERVER TO NEW RAID STORAGE UNITS. CONFIRM ALL CABLING TYPE AND REQUIREMENTS WITH SECURITY SYSTEM MANUFACTURER.
11. NEW HOST COMPUTER TO BE USED FOR INSTALLATION AND CONTROL OF NEW SECURITY SYSTEM SOFTWARE. CONTRACTOR SHALL COORDINATE EXACT LOCATION THAT WILL BE USED TO CONTROL NEW SECURITY SYSTEM WITH OWNER.
12. NEW SECURITY CAMERAS INDOORS. SECURITY CAMERAS TO BE EQUIVALENT TO AXIS #215 PTZ, PROVIDE WITH VANDAL RESISTANT INDOOR PENDANT HOUSING WITH SMOKE COLOR, BASE MOUNT ADAPTER, AND MOUNTING ARM ACCESSORIES REQUIRED SUITABLE FOR MOUNTING ON WALL. SECURITY CAMERAS SHALL BE POWERED BY THE NETWORK ETHERNET CONNECTION. CONFIRM ALL MOUNTING REQUIREMENTS AND ACCESSORIES WITH SECURITY SYSTEM MANUFACTURER.
13. NEW FIXED SECURITY CAMERAS INDOORS. SECURITY CAMERAS TO BE EQUIVALENT TO AXIS #211M, MOUNTING ARM ACCESSORIES REQUIRED SUITABLE FOR MOUNTING ON WALL. SECURITY CAMERAS SHALL BE POWERED BY THE NETWORK ETHERNET CONNECTION. CONFIRM ALL MOUNTING REQUIREMENTS AND ACCESSORIES WITH SECURITY SYSTEM MANUFACTURER.
14. NEW PTZ SECURITY CAMERA OUTDOOR AT LOADING DOCK POLE & LIGHTS. SECURITY CAMERA TO BE 360° IMMERSIVE VIDEO SURVEILLANCE CAMERA. SECURITY CAMERAS SHALL BE POWERED BY THE NETWORK ETHERNET CONNECTION. CONFIRM ALL MOUNTING REQUIREMENTS AND ACCESSORIES WITH SECURITY SYSTEM MANUFACTURER.



GENERAL NOTES:
1. THE NEW IP SECURITY SYSTEM DIAGRAM SHOWN MAY OR MAY NOT BE ACCURATE AND ONLY SERVES AS A GUIDE FOR THE SPECIFICATION OF A NEW SECURITY SYSTEM.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE IP SECURITY SYSTEM. ALL REQUIRED EQUIPMENT, ACCESSORIES, CABLING, ETC. SHALL BE PROVIDED BY CONTRACTOR AND SHALL BE DETERMINED BASED ON WHICH MANUFACTURER WILL BE SPECIFIED.
3. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR NEW SECURITY SYSTEM.

3 SECURITY SYSTEM RISER DIAGRAM

SCALE: NTS

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1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009678
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

SPECIAL SYSTEMS DETAILS

E-420

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LIGHTING CONTROL AND DLM DEVICE SCHEDULE

TYPE	MOUNTING	TYPE	MANUFACTURER MODEL NO.	COVERAGE	COLOR	NOTES
LC1	STRUCTURE (ABOVE ACCESSIBLE CEILING WHERE CEILING EXISTS)	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) PLENUM RATED CONTROLLER WITH LINE VOLTAGE RELAY(S) AND ON/OFF POWER SUPPLY COMPONENT OF DIGITAL LIGHTING MANAGEMENT SYSTEM CONNECT TO COMPONENTS WITH CAT5E CABLES WITH RJ45 CONNECTORS	WATTSTOPPER LMRC-102	PER ROOM	N/A	1,3
LDX	STRUCTURE (ABOVE ACCESSIBLE CEILING WHERE CEILING EXISTS)	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) PLENUM RATED CONTROLLER WITH LINE VOLTAGE RELAY(S) AND ON/OFF/0-10V DIMMING POWER SUPPLY COMPONENT OF DIGITAL LIGHTING MANAGEMENT SYSTEM CONNECT TO COMPONENTS WITH CAT5E CABLES WITH RJ45 CONNECTORS PROVIDE 0-10V CONTROL SIGNAL TO DIMMABLE FIXTURES.	WATTSTOPPER LD1 = LMRC-211 LD2 = LMRC-212 LD3 = LMRC-213	PER ROOM	N/A	1,3
S_2	WALL	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH TWO BUTTONS AS FOLLOWS: "OFF", "ON"	WATTSTOPPER LMSW-102	PER ROOM / ZONE	GREY	2,3
S_3	WALL	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH THREE BUTTONS AS FOLLOWS: "OFF", "1", "2"	WATTSTOPPER LMSW-103	PER ROOM / ZONE	GREY	2,3
S_4	WALL	DIGITAL LIGHTING MANGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH FOUR BUTTONS AS FOLLOWS: "OFF", "1", "2", "3"	WATTSTOPPER LMSW-104	PER ROOM / ZONE	GREY	2,3,4
S_{4D}	WALL	DIGITAL LIGHTING MANGEMENT SYSTEM (DLM) LOW VOLTAGE PUSHBUTTON SWITCH FIVE BUTTONS AS FOLLOWS: "OFF", "1", "2", "3", AND DIMMING.	WATTSTOPPER LMSW-105	PER ROOM / ZONE	GREY	2,3
OS	CEILING	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) DUAL TECHNOLOGY ULTRASONIC AND PASSIVE INFRARED DIGITAL CEILING SENSOR BY WATTSTOPPER	WATTSTOPPER CEILING MOUNT: LMDC-100 CORNER MOUNT: LMDX-100 GYMNASIUM: HBL4 LENS WITH WC	1000 SQFT	WHITE	3,4
OS HIGHBAY	CEILING	DIGITAL PASSIVE INFRARED CEILING SENSOR WITH 360 DEG PATTERN COMPONENT OF DIGITAL LIGHTING MANAGEMENT INTEGRATED CONTROL SYSTEM	WATTSTOPPER LMPC-100-5	1000 SQFT	WHITE	3
DS	CEILING	DIGITAL LIGHTING MANAGEMENT SYSTEM (DLM) SINGLE ZONE SWITCHING AND DIMMING CLOSED LOOP DIGITAL PHOTOSENSOR	WATTSTOPPER LMLS-400		WHITE	3,4
ELT	WALL MOUNTED	EMERGENCY LIGHTING CONTROL TRANSFER SWITCH TRANSFERS LIGHTING LOADS TO EMERGENCY POWER SOURCE UPON LOSS OF POWER. BYPASSES LIGHTING CONTROLS ON NORMAL POWER CIRCUIT. UL924. PROVIDE WITH TEST SWITCH ACCESSORY.	BODINE GTD OR EQUAL AS APPROVED	PER ROOM OR ZONE	N/A	
S_{OS1}	WALL	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH PASSIVE INFRARED	WATTSTOPPER PW-101	PER ROOM	GREY	3
S_{OS2}	WALL	LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCH PASSIVE INFRARED, DUAL RELAY	WATTSTOPPER PW-200	PER ROOM	GREY	3
RP1	WALL MOUNTED	ARCHITECURAL DIMMING PANEL, BACNET ENABLED 16 ZONES 0-10VOLT DIMMING / 16 HIGH-VOLTAGE RELAYS RP1 WITH IC-DIN-II-LITE RP1 WITH SERIAL DATA INTERFACE FOR COMMUNICATION TO DLM CONTROLLERS	WATTSTOPPER LCAP44A A-6 LMDI-100 BACNET-IP-IC IC-DIN-II-LITE LVOS-0-10-PWM (4)	EXTERIOR BUILDING LIGHTING AND INTERIOR COMMON SPACES	N/A	3
RP2E	WALL MOUNTED	ARCHITECURAL DIMMING PANEL 12 ZONES 0-10VOLT DIMMING / 12 HIGH-VOLTAGE RELAYS RP2E WITH (3) EMERGENCY LIGHTING RELAYS RP2E WITH (3) EMERGENCY LIGHTING TEST SWITCH NETWORK TO RP1 FOR CONTROL	WATTSTOPPER LCAP44A A-6 LMDI-100 VA-RRU-1-277(3) VA-EPC-DFS-277V (3) LVOS-0-10-PWM (3)	EXTERIOR BUILDING LIGHTING AND INTERIOR COMMON SPACES	N/A	3
PC	EXTERIOR WALL	DIGITAL PHOTO CELL INPUT MODULE AND EXTERIOR PHOTOCELL	WATTSTOPPER LMIO-301 LMPO-200	EXTERIOR BUILDING LIGHTING	N/A	3

NOTES:
1) REFER TO LIGHTING CONTROL SEQUENCE FOR CONTROL SETTINGS.
2) WALL STATIONS SHALL INCLUDE ENGRAVING TO STATE BUTTON FUNCTION. REFER TO OWNER FOR ENGRAVING PREFERENCES.
3) APPROVED LIGHTING CONTROL EQUALS INCLUDE: ACUITY BRANDS nLIGHT, CRESTRON SPACE BUILDER, HUBBELL NX, CRESTRON
4)

ELEVATOR POWER MODULE SCHEDULE

MARK	LOAD		MANUFACTURER	SWITCH		FUSE		ENCLOSURE NEMA TYPE	ACCESSORIES
	EQUIPMENT SERVED	VOLTS	MODEL	AMP	POLE	AMP	TYPE		
"PM1"	ELEVATOR P1	208	BUSSMAN-#PS1T20KRBF1	100	3	100	AJT	1	CT,FR,K,RP,MR,VMR, AUX

ABBREVIATIONS:
GD - GENERAL DUTY
HD - HEAVY DUTY
SN - SOLID NEUTRAL
CT - CONTROL POWER TRANSFORMER
FR - FIRE SAFETY INTERFACE RELAY
K - KEYED TEST SWITCH
RP - RED PILOT LIGHT
MR - MECHANICAL INTERLOCK AUXILIARY RELAY
VMR - FIRE ALARM VOLTAGE MONITORING RELAY
AUX - AUXILIARY ALARM CONTACT

NOTES:
1. ELEVATOR FUSE REQUIREMENTS SHALL BE VERIFIED WITH THE ELEVATOR EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN OR ORDER OF SWITCHES.

LIGHTING FIXTURE SCHEDULE

R	MANUFACTURER	MODEL	DESCRIPTION	LAMP TYPE	LAMP CCT	VA	VOLTAGE	DIMMING	COMMENTS
A	COOPER LIGHTING	22SR-LD2-59-C-UNV-L835-CD1-U	RECESSED 2X2 DIRECT/INDIRECT TROFFER	LED	3500 K	50	UNV	0-10V	
AE	COOPER LIGHTING	22SR-LD2-59-C-UNV-EL7W-L835-CD1-U+E1	RECESSED 2X2 DIRECT/INDIRECT TROFFER	LED	3500 K	50	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
B	COOPER LIGHTING	LDSQ4D-35B-90-35-D010	4" SQUARE DOWNLIGHT	LED	3500 K	33	UNV	0-10V	
BE	COOPER LIGHTING	LDSQ4D-35B-90-35-D010-EM7	4" SQUARE DOWNLIGHT	LED	3500 K	33	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
C	METALUX	4SNX-48SL-SLW-UNV-L835-CD-1	LED STRIPLIGHT	LED	3500 K	33	UNV	0-10V	
D	BUZZISPACE	BUZZLIET XL	DECORATIVE PENDANT	LED	3500 K	70	120 V	0-10V	
D2	BUZZISPACE	BUZZLIET XXL	DECORATIVE PENDANT	LED	3500 K	70	UNV	0-10V	
E	EUREKA	4256-24-LED-25-80-120V-DV	DECORATIVE PENDANT	LED	3500 K	33	120 V	0-10V	
EME	<varies>	<varies>	<varies>	LED	4000 K	45	<varies>	<varies>	<varies>
EX1	COOPER LIGHTING	LPX SERIES EDGE-LIT	EXIT SIGN	LED	3500 K	5	UNV	N/A	
F	EUREKA	3409-LED-4-35-90-120-DV-BLK-CFR	SURFACE MOUNT PENDANT	LED	3500 K	5	120 V	0-10V	
G	EUREKA	3450-LED-35-90-120-DV-BLK	SURFACE MOUNT PENDANT	LED	3500 K	5	120 V	0-10V	
H	AXIS LIGHTING	B2SQSLED-1000-80-35-SO-5-DMLED-BLK-UNV-DP-1	SURFACE MOUNT LINEAR FIXTURE	LED	3500 K	43	UNV	0-10V	
HE	AXIS LIGHTING	B2SQSLED-1000-80-35-SO-5-DMLED-BLK-UNV-DP+E1	SURFACE MOUNT LINEAR FIXTURE	LED	3500 K	43	UNV	0-10V	FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
I	AXIS LIGHTING	GPSLED-NL-300-80-3500-FL-BLK-UNV-DP	SURFACE MOUNT WALL GRAZE FIXTURE	LED	3500 K	40	UNV	0-10V	
J	COOPER LIGHTING	HCSQ4-40-D010-HM4-3040-835	EXTERIOR DOWN LIGHT	LED	4000 K	43	120 V	0-10V	WET LOCATION LISTED
JE	COOPER LIGHTING	HCSQ4-40-D010-EM06-HM4-3040-835	EXTERIOR DOWN LIGHT	LED	4000 K	43	UNV	0-10V	WET LOCATION LISTED, FURNISH WITH EMERGENCY BATTER PACK FOR MINIMUM 1100 LUMENS
K	BEGA	B50539-K3S-B13183	DECORATIVE PENDANT	LED	3500 K	20	120 V	0-10V	
L	BUZZISPACE	BUZZIPROP LED PENDANT LIGHT	DECORATIVE PENDANT	LED	3000 K	20	120 V	N/A	
M	COOPER LIGHTING	LDSQA2B-20-90-35-D010	2" SQUARE DOWNLIGHT	LED	3500 K	22	UNV	0-10V	
SL1	KIM LIGHTING	PA7R-FT-QH-3-12L-020-47K-44IRB-S20I-BLT-UNV	SITE BOLLARD	LED	4000 K	80	UNV	N/A	
SL2	KIM LIGHTING	CYZ-45-4K8-2-SP-3-UNV-BLT-F-LFSW	SITE UP/DOWN LIGHT	LED	4000 K	52	UNV	N/A	IP66
SL3	KIM LIGHTING	ALT2-100L160-4K8-3-UNV-ASQ-BLT	SITE LIGHTING POWER POLE	LED	4000 K	160	UNV	0-10V	
SL4	KIM LIGHTING	ALT2-100L160-4K8-4-UNV-ASQ-BLT	SITE LIGHTING POWER POLE	LED	4000 K	160	UNV	0-10V	
T	PURE EDGE	SS2C-24-40K-W	OUTDOOR LED STRIP	LED	4000 K	50	120 V	0-10V	WET LOCATION LISTED

LIGHTING FIXTURE SCHEUDLE NOTES:

1. EQUALS BY LITHONIA, HUBBEL, LSI, ACUITY.

2. DECORATIVE PENDANT EQUAL REQUIRES APPROVAL BY ARCHITECT PRIOR TO SUBMITTAL.

LIGHTING CONTROL SEQUENCE

SPACE TYPE / ROOM NAME	CONTROLS: LINE VOLT MANUAL SWITCH	LINE VOL WALL OCCUPANCY SWITCH	LOW VOLT WALL STATION	LOW VOLT DIMMING WALL STATION	PHOTOSENSOR ON/OFF	ASTRONOMIC TIME CLOCK PERMISSION	MANUAL ON ONLY	OCCUPANCY SENSOR 33% AUTO ON	OCCUPANCY SENSOR 50% AUTO ON	OCCUPANCY SENSOR 100% AUTO ON	BI-LEVEL EXTERIOR SENSOR	OPERATING HOURS SCHEDULE	OPERATING HOURS 25% AUTO ON;	OPERATING HOURS 33% AUTO ON;	OPERATING HOURS 50% AUTO ON;	DAYLIGHT SENSOR DIMMING	WIRING DIAGRAM REFERENCE	SEQUENCE OF OPERATIONS	NOTES / OTHER COMMENTS
EXTERIOR - PARKING					X	X					X							1	BI-LEVEL SENSOR FROM 11 PM TO 5 PM.
EXTERIOR - BUILDING					X	X												1	50% LEVEL FROM 11 PM TO 5 AM.
EXTERIOR - SIGNAGE					X	X												1	
EXTERIOR - CANOPY					X	X												1	
QUIET/WAITING & PILOT LOUNGE				X					X			X					E400	2	
PRIVATE OFFICE / WORK ROOM		X							X			X						2	
CONCOURSE				X					X			X	X			X	E400	3,4,11	
RECEPTION COUNTER				X					X			X					E400	2,4	
CAFÉ/VENDING			X						X			X	X				E400	2,3,11	
ENTRY									X	X		X		X	X		E400	5,11	
ENTRY STAIRS									X	X		X	X	X	X		E400	5,6,11	
CONFERENCE				X					X			X					E400	2,7	
ELECTRICAL / MECHANICAL / IT	X																		
LARGE STORAGE / JANITOR			X							X		X					E400	8	
SMALL STORAGE		X								X		X						8	
VESTIBULES									X	X		X	X	X	X		E400	5,11	
PUBLIC RESTROOMS										X		X					E400	8	
PRIVATE RESTROOMS / JANITOR		X								X		X						8	
MEZZANINE			X					X				X				X	E400	9	
LINE SERVICE / LOCKER			X					X					X		X		E400	6,9	
WORK ROOM / BREAK ROOM			X						X			X	X		X		E400	6,10,11	
CORRIDORS										X		X			X			5,11	

SEQUENCE OF OPERATIONS

1 TIME CLOCK PERMISSION ON FROM 4 PM TO 8 AM. PHOTOSENSOR ON AND OFF. DIMMING AND BI-LEVEL FUNCTIONALITY AS DESCRIBED IN COMMENTS.

2 OCCUPANCY SENSOR 50% ON. TASK LIGHTS MANUAL ON AT LOCAL SWITCH, IF APPLICABLE. ALL LIGHTS OCCUPANCY SENSOR OFF.

3 TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 25% AND AUTO RAISE TO 50% WHEN OCCUPIED. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO ON TO 50% WHEN OCCUPIED.

4 PRESENTATION SETTING DIMS ALL LIGHTS TO 50% AND TURNS OFF ZONE ADJACENT TO PRESENTATION SCREEN.

5 TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 50% AND AUTO RAISE TO 100% WHEN OCCUPIED. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO ON TO 100% WHEN OCCUPIED.

6 DAYLIGHT CONTROLS. DIM LIGHTING, LINEARLY, STARTING AT 100% OUTPUT AT 40 FC TO 0% OUTPUT AT 120 FC. EVALUATE ACTUAL LIGHT LEVELS AND CALIBRATE SETTINGS PER SPECIFICATIONS.

7 PRESENTATION SETTING DIMS LINEAR PENDANT TO 10% AND TURNS OFF DOWNLIGHTS.

8 OCCUPANCY SENSOR 100% ON. ALL LIGHTS OCCUPANCY SENSOR OFF.

9 TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 33% AND AUTO RAISE TO 100% WHEN OCCUPIED. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO ON TO 33% WHEN OCCUPIED.

10 TIME PERMISSIONS. DURING OPERATING HOURS, LIGHT LEVELS ON AT 50%. AFTER HOURS, LIGHTS OFF WHEN UNOCCUPIED, AUTO ON TO 55% WHEN OCCUPIED.

11 SPACE CONTROLS NETWORKED TO RELAY PANEL "RP1" FOR TIME CLOCK FUNCTIONALITY.

FLOOR BOX DEVICE SCHEDULE

TAG NO.	MAKE: MODEL	COLOR	MANUF	COVER	POWER: MODEL	QTY	DEPTH	COMM: MODEL	LOCALE	AUDIO/ VISUAL	NOTES
FB-1	EVOLUTION RFB4-C1-1	BRUSHED NI BLACK	WIREMOLD	S40CTCAL	CIHT-D	2	3"	CILT-4TKO -4-RJ	CENTER	AV	CS,LF,CT,LVD

ABBREVIATIONS
FR - FIRE RATED
CS - CONCELAED SERVICE
LF - LEVELING FEET
CT - CARPET/TILE FLANGE KIT, BA FINISH TRIM, CARPET INSERT
LVD - LOW VOLTAGE DIVIDER
AV - A/V PLATE CIH/LT-B BLANK INSERT WITH VGA AND HDMI CONNECTIONS (WIRING/JACKS BY CONTRACTOR)

*REFER TO SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.

BRANCH CIRCUIT COPPER CONDUCTOR AND CONDUIT SIZE

OVERCURRENT PROTECTION DEVICE RATING (AMPS)	REQUIRED CONDUCTOR SIZE	EQUIPMENT GROUNDING CONDUCTOR SIZE	SINGLE PHASE 2 WIRE + GND. CONDUIT SIZE	SINGLE PHASE 3 WIRE + GND. CONDUIT SIZE (where noted on circuit)	THREE PHASE 3 WIRE + GND. CONDUIT SIZE	THREE PHASE 4 WIRE + GND. CONDUIT SIZE (where noted on circuit)
15	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
20	12 AWG	12 AWG	3/4"	3/4"	3/4"	3/4"
25	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
30	10 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
35	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
40	8 AWG	10 AWG	3/4"	3/4"	3/4"	3/4"
45	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
50	6 AWG	10 AWG	3/4"	3/4"	3/4"	1"
60	4 AWG	10 AWG	1"	1"	1"	1-1/4"
70	4 AWG	8 AWG	1"	1"	1"	1-1/4"
80	3 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
90	2 AWG	8 AWG	1"	1-1/4"	1-1/4"	1-1/4"
100	1 AWG	8 AWG	1-1/4"	1-1/2"	1-1/2"	1-1/2"

* = UNLESS OTHERWISE NOTED ON THE DRAWINGS.
** = CONDUIT SIZE DOES NOT APPLY TO "MC" CABLE.

CONDUIT APPLICATION SCHEDULE

APPLICATION	MATERIAL	FITTING TYPE (IF APPLICABLE)	NOTES
SERVICE ENTRANCE CONDUIT ABOVE GRADE ONLY	RIGID STEEL	-	-
FEEDERS ABOVE GRADE	EMT	COMPRESSION	-
ALL BRANCH CIRCUITS FOR LIGHTING AND POWER	EMT	COMPRESSION	-
ALL HVAC EQUIPMENT, SUPPLY/EXHAUST FANS AND MOTORS	EMT	COMPRESSION	-
LIGHT FIXTURE WHIPS LIMITED TO 5'-0" IN LENGTH	MC CABLE	-	CU ONLY
UNDERGROUND TELEPHONE SERVICE	PVC	-	-
UNDERGROUND CABLE TV / INTERNET	PVC	-	-
SERVICE ENTRANCE CONDUIT BELOW GRADE WHERE NOT BELOW PAVED AREA	SCH 40 PVC	-	2
BRANCH CIRCUITS BELOW GRADE	PVC	-	1
LINE VOLTAGE THERMOSTAT / CONTROL WIRING	EMT	COMPRESSION	-
T-STAT WIRING OR CONTROL WIRING IN WALLS AND IN AREAS WITHOUT CEILINGS	EMT	COMPRESSION	-
FIRE ALARM CABLING (POWER-LIMITED, FIRE-PROTECTIVE, SIGNALING CIRCUIT CABLE)	EMT	COMPRESSION	-
DATA/TELEPHONE CABLING WHERE CEILINGS INSTALLED	OPEN/CABLE TRAY	-	3
INTERCOM/SECURITY SYSTEM	OPEN	-	3

1. TRANSITION TO EMT SHALL BE MADE PRIOR TO COMING UP FROM BELOW GRADE
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN UTILITY COMPANY REQUIREMENTS FOR PRIMARY SERVICE AND ENCASING IN CONCRETE IF REQUIRED.
3. WHERE CEILINGS EXIST, WIRING CAN BE OPEN, PLENUM-RATED WIRING. IN AREAS WITHOUT A CEILING, EMT CONDUIT IS REQUIRED.

DISCONNECT SWITCH SCHEDULE

TAG NO.	LOAD: EQUIPMENT SERVED	VOLTS	SWITCH: DUTY	AMP	POLE	FUSE: AMP	POLE	TYPE	ENCLOSURE NEMA TYPE	NOTES
DS-1	ROOF HEAT PUMP "CU-1"	208	HD	60	2	-	-	-	NEMA 3R	L,GB
DS-2	ROOF HEAT PUMP "CU-2"	208	HD	60	2	-	-	-	NEMA 3R	L,GB
DS-3	ROOF HEAT PUMP "CU-2"	208	HD	60	2	-	-	-	NEMA 3R	L,GB

ABBREVIATIONS
HD - HEAVY DUTY
GD - GENERAL DUTY
GB - GROUND BAR
SN - SOLID NEUTRAL
L - LOCKABLE
SS - STAINLESS STEEL, DUST TIGHT
GD - GENERAL DUTY
GB - GROUND BAR
SN - SOLID NEUTRAL
L - LOCKABLE
*NOTE:
ALL EQUIPMENT SHALL BE LABELED PER SPECS WITH PLASTIC ENGRAVED TAGS
EQUIVALENT MANUFACTURERS BY SQUARE D, GE, SIEMENS, EATON

CMT
1627 MAIN STREET, SUITE 600
KANSAS CITY, MO 64108

WELLNER ARCHITECTS + engineers
1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108

OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
10.22.2024
NUMBER PE-2010009876
PROFESSIONAL ENGINEER

Cory Wilson - MO #PE-2010009876
Certificate of ♂ 10-21-2024 #2024005146

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 2403
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: OH
CHECKED BY: AF
APPROVED BY: TWD

SHEET TITLE
ELECTRICAL SCHEDULES

E-500
SHEET OF

11/27/2024 9:17:31 AM

MAIN DISTRIBUTION PANEL SCHEDULE

PANEL DESIGNATION: NEW "MDP" | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 42K
TYPE: I-LINE | MAINS: 1200 AMP 1000 MCB | DIMENSIONS: 42" WIDE, 8.5" DEEP
MOUNTING: SURFACE | MTG SP: 84"

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	NEW PANEL "LPH"	400	KC	45417	64417			19000	250	KC	NEW 30-TON RTU	2
	"	3		41417		60417		19000	3		"	
	"	3		38667			57667	19000	3		"	
3	NEW PANEL "LP1"	150	KC	10800	20000			9200	100	FC	ELEVATOR (20 HP)	4
	"	3		9800		19000		9200	3		"	
	"	3		10200			19400	9200	3		"	
5	NEW PANEL "LP2"	150	KC	11500	19500			8000	100	FC	NEW PANEL "LPL"	5
	"	3		10800		18800		8000	3		"	
	"	3		12600			20600	8000	3		"	
7	VAV-15 (15 KW)	60	FC	5000	5000				100	FC	SPARE	
	"	3		5000		5000			3		"	
	"	3		5000			5000		3		"	
7	SPACE	-			-				-		SPACE	
	"	3				-			3		"	
	"	3					-		3		"	

TOTAL CONNECTED PHASE LOADS	108625	103717	102667	VA
* COOLING DIVERSIFIED LOAD	77125	74225	75600	VA
* HEATING DIVERSIFIED LOAD	79562	74862	75000	VA
PHASE LOADS	663	623	630	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	828			AMPS

ABBREVIATIONS:
AF - ARC FAULT CIRCUIT INTERRUPTER
GFI - GROUND FAULT CIRCUIT INTERRUPTER
HLO - HANDLE LOCK 'OFF'

NOTES/ACCESSORIES:
* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
** PROVIDE NEW BREAKERS, SIZE AND TYPE, AS SHOWN. SERIES RATINGS SHALL BE ALLOWED. NEW BREAKER SHALL BE BOLT-ON TYPE
*** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL DESIGNATION: NEW "LP1" | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 22K
TYPE: NQOD | MAINS: 200 AMP MLO | DIMENSIONS: 20" WIDE, 6.5" DEEP
MOUNTING: SURFACE | POLES: 42

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	OFFICE RECEPTS	20		360	2468			900	20		BUILDING AUTOMATION SYSTEM	2
3	OFFICE RECEPTS	20		1500		2468		900	20		SECURITY/ACCESS CONTROL	4
5	OFFICE RECEPTS	20		1500			1860	960	20		IT ROOM QUAD	6
7	OFFICE RECEPTS	20		900	1320			960	20		IT ROOM QUAD	8
9	CONF RECEPTACLES/TV	20		360		1860		2200	30		RACK NEMA 5-20P UPS / PDU DROP	10
11	CONF RECEPTACLES/FLOOR BOX	20		720			2220	500	20		LIGHTING CONTROL PANEL	12
13	EXTERIOR OUTLETS	20	GFI	720	1620			900	20		WHITE NOISE RACK (L5-20R)	14
15	WORK ROOM OUTLETS	20		1080		1620		900	20		ACCESS CONTROL DOORS	16
17	CHARGING COUNTER OUTLETS	20		1080			1800	1000	20		CELL BOOSTER/SATELLITE (ASOS)	18
19	TOILET RECEPTS	20	GFI	1080	1080			1000	2		"	20
21	LOCKER ROOM RECEPTS	20		900		2000		1000	20		FLOOR COPIER (LOCATION TBD)	22
23	STORAGE RECEPTS	20		900			2000	1000	20		FIRE ALARM CONTROL PANEL	24
25	MONITORS AT CHARGING STATION	20		900	1900			1000	20	GFI	BREAK ROOM REFRIGERATOR	26
27	CUSTODIAL OUTLETS	20		900		1900		1000	20	GFI	BREAK ROOM DISHWASHER	28
29	PLANNING COUNTER RECEPTS	20		900			1900	1000	20	GFI	BREAK ROOM MICROWAVE	30
31	RECEPTION/CORRIDOR OUTLETS	20		900	1900			1000	20	GFI	BREAK / WORK RM AC RECEPTS	32
33	CONF ROOM COFFEE MAKER	20		1000		2000		1000	20	GFI	BREAK ROOM GARBAGE DISP.	34
35	CONF ROOM U/C QUAD FOR CRESTRON	20		1000			2000	1000	20		CRESTRON RACK (L5-20R)	36
37	CONF ROOM MOTORIZED SHADES	20		400	0				20		SPARE	38
39	SPARE	20				0			20		SPARE	40
41	SPARE	20					0		20		SPARE	42
								-	-			
								-	-			
								-	-			

TOTAL CONNECTED PHASE LOADS	12368	11948	11880	VA
* COOLING DIVERSIFIED LOAD	10545	9792	9734	VA
* HEATING DIVERSIFIED LOAD	10545	9792	9734	VA
PHASE LOADS	86	83	83	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	109			AMPS

ABBREVIATIONS:
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GFI - GROUND FAULT CIRCUIT INTERRUPTER
HLO - HANDLE LOCK 'OFF'

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*** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL DESIGNATION: NEW "LP2" | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 22K
TYPE: NQOD | MAINS: 200 AMP MLO | DIMENSIONS: 20" WIDE, 6.5" DEEP
MOUNTING: SURFACE | POLES: 54

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	BREAK RANGE (6-50R)	50		3000	2468			900	20		COFFEE COUNTER OUTLET	2
3	"	2		3000		2468		900	20		COFFEE COUNTER OUTLET	4
5	BREAK ROOM REFRIGERATOR	20	GFI	900			1860	900	20		PILOT LOUNGE OUTLETS	6
7	BREAK ROOM DISHWASHER	20	GFI	360	1320			900	20		PILOT TV/OUTLETS	8
9	BREAK ROOM MICROWAVE	20	GFI	720		1860		900	20	GFI	TOILET OUTLETS	10
11	ROOFTOP W/P RECEPT	20	GFI	720			2220	900	20	GFI	TOILET OUTLETS	12
13	WAITING OUTLETS	20		720	1620			900	20		FIRE PLACE	14
15	WAITING OUTLETS/TV	20		720		1620		900	20		MEZZANINE OUTLETS	16
17	PLANNING RECEPT / TV	20		720			1800	900	20		ELECTRIC DRINKING FOUNTAIN	18
19	CAFE RECEPTS / FLOOR BOX	20		1000	1080			900	20		WASHING MACHINE	20
21	CAFE KITCHEN QUAD	20		1000		2000		1500	30		CLOTHES DRYER	22
23	CAFE KITCHEN QUAD	20		1000			2000	1500	2		"	24
25	CAFE KITCHEN QUAD	20		1000	1900			900	20		ICE MACHINE	26
27	CAFE POS	20		1000		1900		900	20		AUTOMATIC DOORS AT VESTIBULES	28
29	LOBBY/CONCOURSE OUTLETS	20		1000			1900	900	20		RES. RANGE RECIRC HOOD/OUTLETS	30
31	LOBBY/CONCOURSE OUTLETS	20		1000	1900			900	20		ELEVATOR CAB LTG, RECEPTS	32
33	GARBAGE DISPOSER	20	GFI	1000		1800		800	20		VERTICAL REFRIGERATOR	34
35	GARBAGE DISPOSER	20	GFI	1000			1800	800	20		VERTICAL REFRIGERATOR	36
37	BREAKROOM U/C REFRIGERATOR	20	GFI	900	1700			800	20		VERTICAL REFRIGERATOR	38
39	MEZZANINE POKE-THRU BOXES	20		900		0			20		WAITING ROOM MOTORIZED SHADES	40
41	SPARE	20					0		20		SPARE	42
								-	-			
								-	-			
								-	-			

TOTAL CONNECTED PHASE LOADS	12668	11048	10980	VA
* COOLING DIVERSIFIED LOAD	9545	8792	8734	VA
* HEATING DIVERSIFIED LOAD	9138	8519	8455	VA
PHASE LOADS	83	78	78	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	105			AMPS

ABBREVIATIONS:
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HLO - HANDLE LOCK 'OFF'

NOTES/ACCESSORIES:
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*** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY

TERMINAL BUILDING ELECTRICAL LOAD SIZING TABLE

ITEM	EQUIPMENT SERVED / TYPE	LOAD VA	DIVERSITY	SIZING LOAD	NOTES
1					
2	RECEPTACLES - GENERAL	33,000	0.65	21,500 VA	FIRST 10KVA + (1/2 * REMAINING LOAD)
3	COMPUTER LOADS - GENERAL	6,000	1.0	6,000 VA	NON-LINEAR LOADS
4	SERVER / LAN ROOM LOADS	6,000	1.0	5,000 VA	NON-LINEAR CONTINOUS LOADS
5	INTERIOR LIGHTING	9,250	1.0	9,250 VA	
6	EXTERIOR LIGHTING	4,000	1.0	4,000 VA	
7	EXHAUST SYSTEMS (GENERAL)	3,128	1.0	3,128 VA	ALL LESS THAN 1.5 HP EACH
8					
9	KITCHEN EQUIPMENT	4,500	0.75	3,475 VA	DIVERSIFIED AT 75% PER NEC
10	ELEVATORS	27,600	1.0	27,600 VA	ONE AT 20 HP
11	LAUNDRY EQUIPMENT	3,800	0.5	3,000 VA	RESIDENTIAL STYLE AT ALL LOCATIONS
12	RTU - 1 @ 30 TONS	67,830	1.0	67,830 VA	VFD CONTROL / STAGED COOLING
13	ELECTRIC HEAT	100,000	0.33	33,000 VA	COOLING GOVERNS
14	VRF SYSTEMS	19,878	1.0	19,878 VA	(2) OUTDOOR UNITS, (7) INDOOR UNITS
15	TEMPERATURE CONTROLS	1,500	1.0	1,500 VA	DDC SYSTEM
16	DOMESTIC WATER BOILERS	1,500	1.0	1,500 VA	YEAR ROUND
17	FIRE ALARM, SECURITY, WHITE NOISE	4,000	1.0	4,000 VA	LOW VOLTAGE SYSTEMS
18	BASEBOARD RADIANT HEATERS	11,500	0.25	2,875 VA	OFF-SEASON DEMAND
19	MISCELLANEOUS LOADS	7,500	0.5	3,750 VA	MISC EQUIPMENT, ASOS TOWER
20					
21					
			TOTAL	217,056 VA	608 AMPS AT 120/208-3PH VOLT
				271,320 VA	760 AMPS AT 120/208-3PH VOLT
				1000 AMPS	SERVICE SIZE FROM TRANSFORMER

NOTES:
1. ALL LOAD SIZING IS IN ACCORDANCE WITH THE 2011 NEC.
2. SIZE OF UTILITY TRANSFORMER IS AT UTILITY COMPANIES DISCRETION AND DIVERSITIES. IT IS ASSUMED EVERGY WILL HAVE A 250-300 KVA PAD MOUNT.

EVERGY IS EXPECTED TO HAVE JUST SINGLE UTILITY ENTRANCE - 12.47 KV TO 208/120V-3PH,4W PAD MOUNTED TRANSFORMER. METERING WILL BE FROM EXTERIOR METER AND CT CABINET.

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL DESIGNATION: NEW "LPH" (SECT 1) | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 22K
TYPE: NQOD | MAINS: 400 AMP FTL** | DIMENSIONS: 20" WIDE, 6.5" DEEP
MOUNTING: SURFACE | POLES: 42

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	VAV-1 (5.0 KW)	35		2500	4500			2000	30		VAV-2 (4.0 KW)	2
3	"	2		2500		4500		2000	2		"	4
5	VAV-3 (2.5 KW)	20		1250			3750	2500	35		VAV-4 (5.0 KW)	6
7	"	2		1250	3750			2500	2		"	8
9	VAV-5 (2.5 KW)	20		1250		2500		1250	20		VAV-6 (2.5 KW)	10
11	"	2		1250			2500	1250	2		"	12
13	VAV-7 (2.5 KW)	20		1250	2500			1250	20		VAV-8 (2.5 KW)	14
15	"	2		1250		2500		1250	2		"	16
17	VAV-9 (12.0 KW)	45		4000			6500	2500	30		VAV-10 (7.5 KW)	18
19	"	3		4000	6500			2500	3		"	20
21	"	3		4000		6500		2500	3		"	22
23	VAV-11 (12.0 KW)	45		4000			6500	2500	30		VAV-12 (7.5 KW)	24
25	"	3		4000	6500			2500	3		"	26
27	"	3		4000		6500		2500	3		"	28
29	VAV-13 (7.5 KW)	30		2500			5000	2500	35		VAV-14 (5.0 KW)	30
31	"	3		2500	5000			2500	2		"	32
33	"	3		2500		5167		2667	30		VAV-16 (8.0 KW)	34
35	SPARE	20					2667	2667	3		"	36
37	SPARE	20			2667			2667	3		"	38
39	SPARE	20		0		2500		2500	35		VAV-17 (5.0 KW)	40
41	SPARE	20					2500	2500	2		"	42
					9000			7750	-		FEED THRU LUGS TO SECTION 2	
						8750		6000	-		"	
							6750	6750	-		"	

TOTAL CONNECTED PHASE LOADS	39167	37167	36167	VA
* COOLING DIVERSIFIED LOAD		-	-	VA
* HEATING DIVERSIFIED LOAD	35320	33450	32250	VA
PHASE LOADS	294	278	272	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	367			AMPS

ABBREVIATIONS:
AF - ARC FAULT CIRCUIT INTERRUPTER
GFI - GROUND FAULT CIRCUIT INTERRUPTER
HLO - HANDLE LOCK 'OFF'

NOTES/ACCESSORIES:
* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
** PROVIDE NEW BREAKERS, SIZE AND TYPE, AS SHOWN. SERIES RATINGS SHALL BE ALLOWED. NEW BREAKER SHALL BE BOLT-ON TYPE
*** FEED THRU LUGS TO SECTION 2

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL DESIGNATION: NEW "LPL" | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 22K
TYPE: NQOD | MAINS: 100 AMP MLO | DIMENSIONS: 20" WIDE, 6.5" DEEP
MOUNTING: SURFACE | POLES: 30

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
1	RM. 129, 131 LTG	20		1500	2400			900	20		EXTERIOR LIGHTING	2
3	LOBBY SCONCES, RM. 134-136 LTG	20		1500		2400		900	20		EXTERIOR LIGHTINGG	4
5	RM. 109, 120, 121, 122, 124 LTG	20		1500			1975	475	20		EXTERIOR POLE LIGHTING	6
7	MEZZANINE LIGHTING	20		900	1375			475	2		"	8
9	RM. 130, 132, 133 LTG	20		1500		2500		1000	20		EXTERIOR CANOPIES/ENTRY LTG	10
11	RM. 106, 107, N CANOPY LTG	20		720			2220	1500	20		LIGHTING CONTROL PANEL	12
13	RM. 103, 104, 105 LTG	20		900	1800			900	20		RM. 108, 117, 119 LTG	14
15	RM. 123, 126 LTG	20		900		1800		900	20		RM. 110, 112, 114, 116 LTG	16
17	RM. 100, 102, E CANOPY LTG	20		1600			2600	1000	20		RM. 111, 113, 115, 118 LTG	18
19	SPARE	20		600	1600			1000	20		AIRSIDE CANOPY LTG	20
21	LOBBY LTG	20		1500		2000		1000	20		AIRSIDE CANOPY & VESTIBULE LTG	22
23	SPARE	20		1000			2000	1000	20		MONUMENT SIGN	24
25	SPARE	20			0			1000	20		SPARE	26
27	SPARE	20				0		1000	20		SPARE	28
29	SPARE	20					0	1000	20		SPARE	30
								-	-			
								-	-			
								-	-			

TOTAL CONNECTED PHASE LOADS	7175	8300	7795	VA
* COOLING DIVERSIFIED LOAD	7175	8300	7795	VA
* HEATING DIVERSIFIED LOAD	7175	8300	7795	VA
PHASE LOADS	60	69	65	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	86			AMPS

ABBREVIATIONS:
AF - ARC FAULT CIRCUIT INTERRUPTER
GFI - GROUND FAULT CIRCUIT INTERRUPTER
HLO - HANDLE LOCK 'OFF'

NOTES/ACCESSORIES:
* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
** PROVIDE NEW BREAKERS, SIZE AND TYPE, AS SHOWN. SERIES RATINGS SHALL BE ALLOWED. NEW BREAKER SHALL BE BOLT-ON TYPE
*** PROVIDE UPDATED TYPED CIRCUIT DIRECTORY

CIRCUIT BREAKER PANELBOARD SCHEDULE

PANEL DESIGNATION: NEW "LPH" (SECT 2) | MANUFACTURER: SQUARE D | VOLTAGE: 120/208V, 3 PHASE, 4 WIRE | MIN. AIC: 22K
TYPE: NQOD | MAINS: 400 AMP MLO | DIMENSIONS: 20" WIDE, 6.5" DEEP
MOUNTING: SURFACE | POLES: 30

CKT NO	LOAD DESCRIPTION	** CIRCUIT BREAKER	TYPE	LOAD (VA)	PHASE LOADS A	B	C	LOAD (VA)	CIRCUIT BREAKER	TYPE	LOAD DESCRIPTION	CKT NO
43	BEH-1/BEH-2/BEH-2	20		1500	3000			1500	20		EWH-1 (3.0 KW)	44
45	"	2		1500		3000		1500	2		"	46
47	BEH-3 (2.0 KW)	20		1000			2500	1500	20		EWH-2 (3.0 KW)	48
49	"	2		1000	2500			1500	2		"	50
51	VRF COND UNIT (VERIFY MOCP)	35		1500		2500		1000	20		BEH-3 (2.0 KW)	52
53	"	2		1500			2500	1000	2		"	54
55	INDOOR VRF UNITS (VERIFY MOCP)	15		250	750			500	20		WATER HEATER WH-1/WH-2	56
57	"	2		250		250		500	20		EXHAUST FAN EF1	58
59	VRF COND UNIT (VERIFY MOCP)	45		2200			2700	500	20		EXHAUST FAN EF2	60
61	"	2		2200	2700			500	20		EXHAUST FAN EF3	62
63	INDOOR VRF UNITS (VERIFY MOCP)	15		250		250			20		SPARE	64
65	"	2		250			250		20		SPARE	66
67	SPARE	20			0				20		SPARE	68
69	SPARE	20				0			20		SPARE	70
71	SPARE	20					0		20		SPARE	72
					-			-	-			
						-		-	-			
							-	-	-			

TOTAL CONNECTED PHASE LOADS	8750	6000	7750	VA
* COOLING DIVERSIFIED LOAD	4000	2900	3250	VA
* HEATING DIVERSIFIED LOAD	8750	6000	7750	VA
PHASE LOADS	75	50	70	AMPS
FUTURE FACTOR	1.25			
MINIMUM PANEL/FEEDER SIZE	87			AMPS

ABBREVIATIONS:
AF - ARC FAULT CIRCUIT INTERRUPTER
GFI - GROUND FAULT CIRCUIT INTERRUPTER
HLO - HANDLE LOCK 'OFF'

NOTES/ACCESSORIES:
* DIVERSIFIED LOADS INDICATED HAVE BEEN CALCULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
** PROVIDE NEW BREAKERS, SIZE AND TYPE, AS SHOWN. SERIES RATINGS SHALL BE ALLOWED. NEW BREAKER SHALL BE BOLT-ON TYPE
*** FEED WITH WIRING FROM SECTION 1 FTL

LEGEND

MDP | LP1 | LP2
LOAD | LPH-1 | LPH-2
LPL

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT
LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
10.22.2024
NUMBER PE-2010009876
PROFESSIONAL ENGINEER

Cory Wilson - MO #PE-2010009876
Certificate of . 10-21-2024 #2024005146

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO: 2403
CAD DWG FILE: Lee's Summit - Hangar 2.rvt
DESIGNED BY: SH
DRAWN BY: OH
CHECKED BY: AF
APPROVED BY: TWD

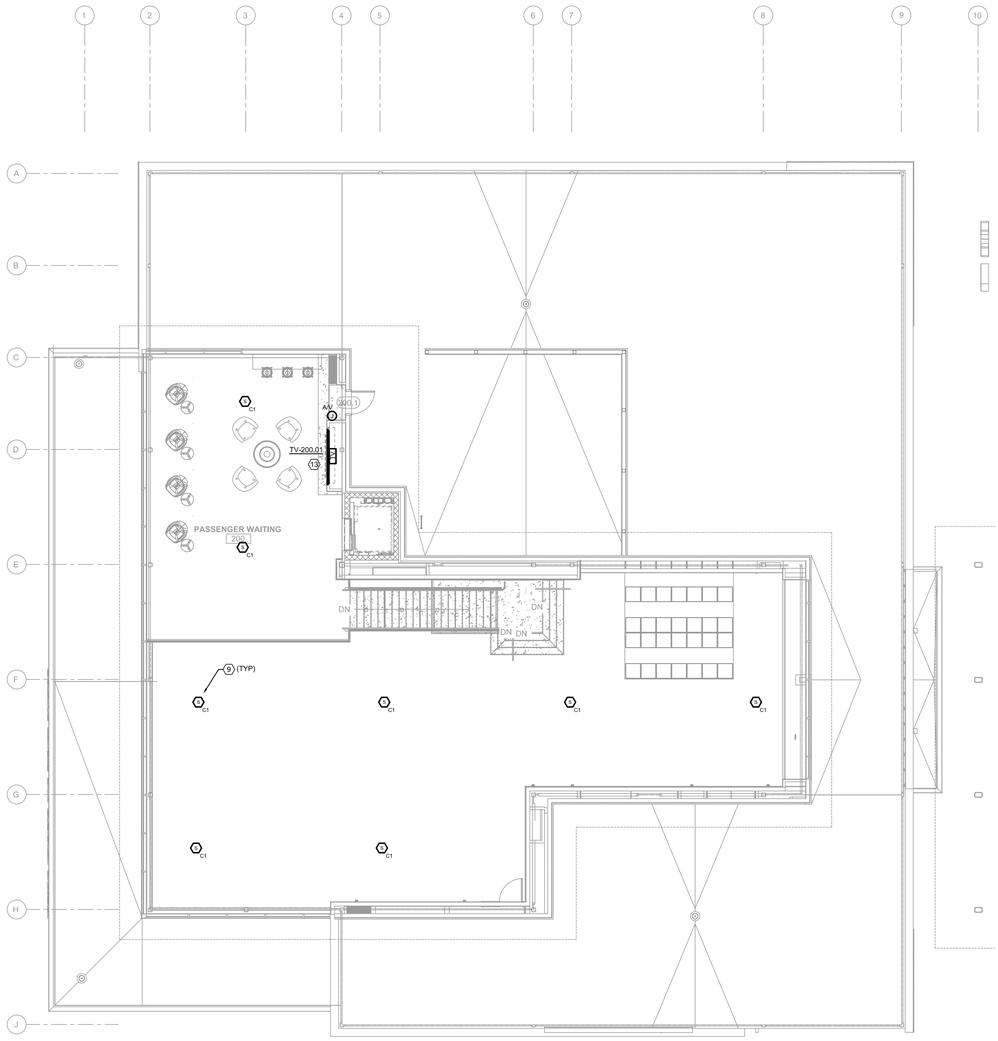
SHEET TITLE
ELECTRICAL SCHEDULES

E-510
SHEET OF

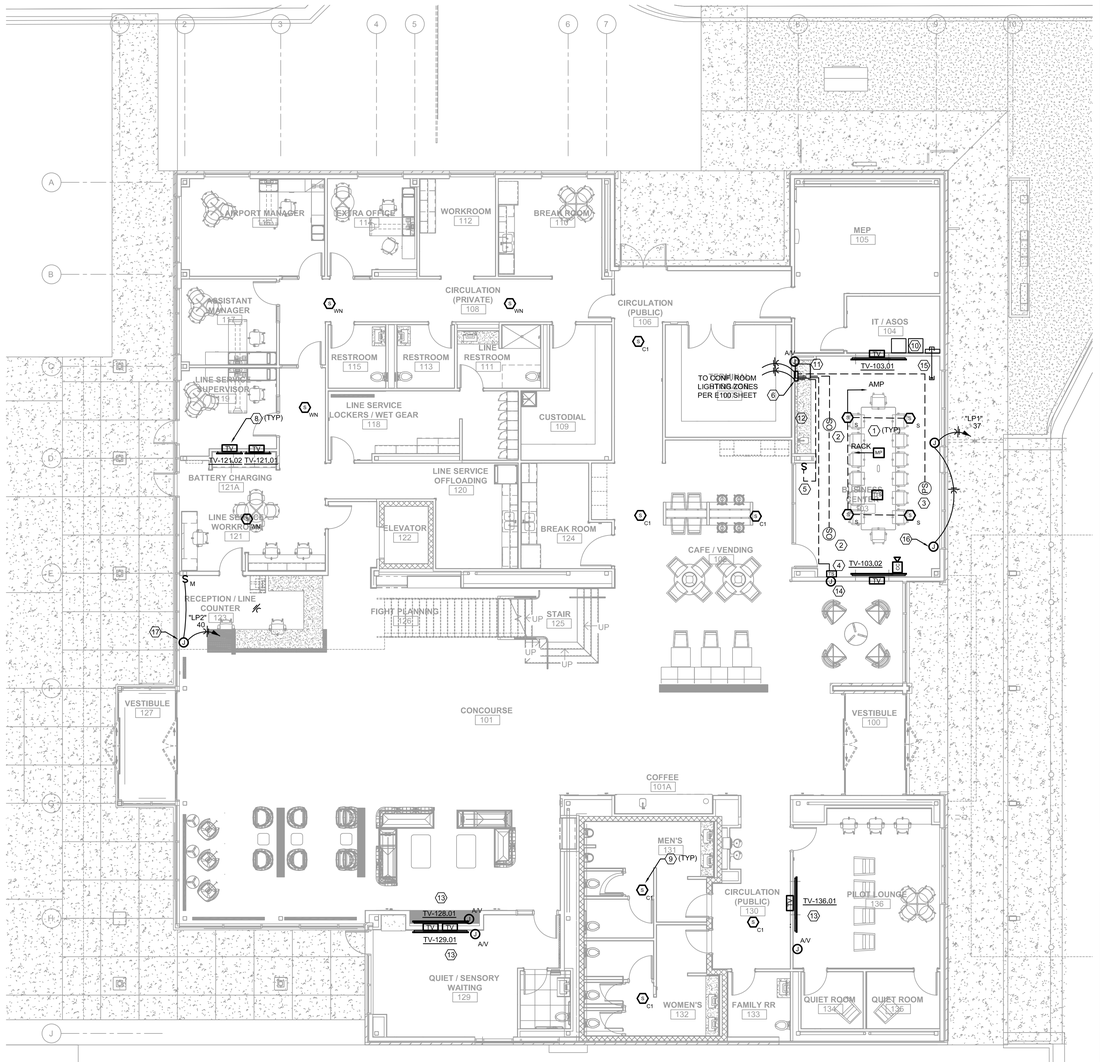
11/27/2024 9:15:37 AM

PLAN NOTES: (#)

1. PROVIDE CRESTRON GREEN LIGHT INTEGRATED LIGHTING SYSTEM FOR CONFERENCE ROOM. INTEGRATE SYSTEM WITH CRESTRON AV SYSTEM. PROVIDE ALL WIRING DEVICES AND COMPONENTS NECESSARY FOR A COMPLETE FUNCTIONAL SYSTEM. REFER TO DETAIL ON AV300.
2. PROVIDE CRESTRON DUAL TECH CEILING MOUNT OCCUPANCY SENSOR GLS-ODT-C-1000.
3. PROVIDE CRESTRON DAYLIGHT SENSOR GLS-LCL. MOUNT SENSOR LOCATION PER MANUFACTURERS RECOMMENDATIONS.
4. PROVIDE CRESTRON 5.7" WALL MOUNT TOUCH SCREEN PANEL TPS-6L.
5. PROVIDE CRESTRON CAMEO KEYPAD AND DECORA FACEPLATE C2N-CBD-TS (CB6-BTN)
6. PROVIDE CRESTRON GREEN LIGHT INTEGRATED DIMMABLE CONTROLLER GLPAC-DIMFLV8 ABOVE CEILING.
7. PROVIDE A 2" CONDUIT WITH PULL STRING STUBBED ABOVE ACCESSIBLE CONFERENCE ROOM TO AV CABINET IN CENTRAL CLOSET.
8. LEGRAND TV ROUGH-IN BOX FURNISHED BY ELECTRICAL CONTRACTOR. UTILIZE LOW VOLTAGE SECTION FOR ANY COMMUNICATION CABLING JACKS AND A/V ROUGH-IN. SEE POWER/SPECIAL SYSTEMS PLANS.
9. TYPICAL WHITE NOISE - MUSAK CEILING SPEAKER. REFER TO RISER DIAGRAM AND ALL CABLING WORK. IN UPPER CEILING ENSURE THESE ARE INSTALLED IN THE BLACK PAN. SPEAKER TO BE BLACK.
10. WALL MOUNTED CABINET FOR PA SPEAKERS AND ADJACENT CABINET FOR CRESTRON SYSTEM. CRESTRON CABINET TO BE MINIMUM 12U WITH LOCKABLE DOOR.
11. UNDERCABINET A/V RACK FOR CRESTRON AND INPUT DEVICES.
12. REFER TO A/V WALL ELEVATION FOR ROUGH-IN REQUIREMENTS (103)
13. REFER TO A/V WALL ELEVATION FOR ROUGH-IN REQUIREMENTS (TYPICAL STANDALONE TV)
14. PROVIDE CUSTOM BACKBOX AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FOR CRESTRON 7" A/V SCREEN.
15. PROVIDE A 2" CONDUIT WITH PULL STRING STUBBED ABOVE ACCESSIBLE CONFERENCE ROOM FROM AV CABINET IN CENTRAL CLOSET.
16. 120V CIRCUIT FOR MOTORIZED SHADES TO BE CONTROLLED BY CRESTRON SYSTEM VIA RELAY.
17. 120V CIRCUIT FOR MOTORIZED SHADES TO BE CONTROLLED FROM MOMENTARY DECORA SWITCH (UP/DOWN/STOP).



2 AUDIO/VISUAL SYSTEMS PLAN - LEVEL 2
SCALE: 1/8"=1'-0"



1 AUDIO/VISUAL SYSTEMS PLAN - LEVEL 1
SCALE: 1/8"=1'-0"

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
NUMBER PE-2010000870
PROFESSIONAL ENGINEER
11.26.2024

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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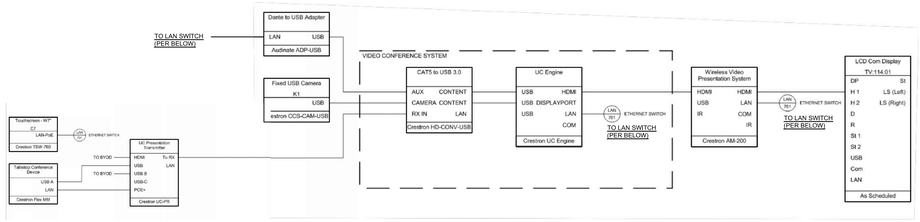
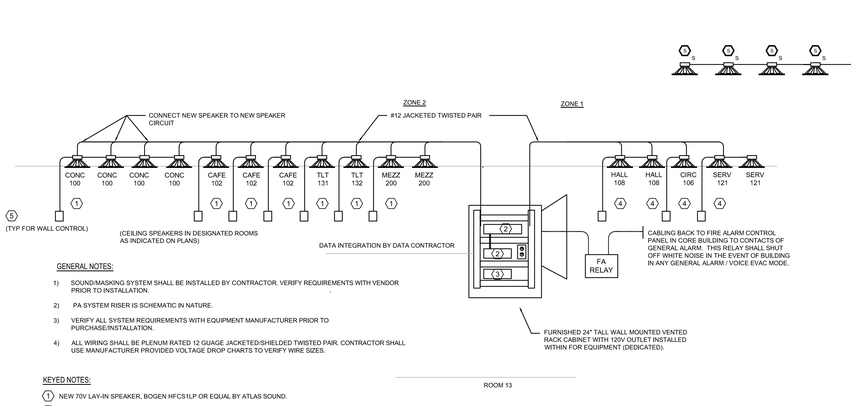
SHEET TITLE

AUDIO/VISUAL PLANS

AV100

SHEET 103 OF 102





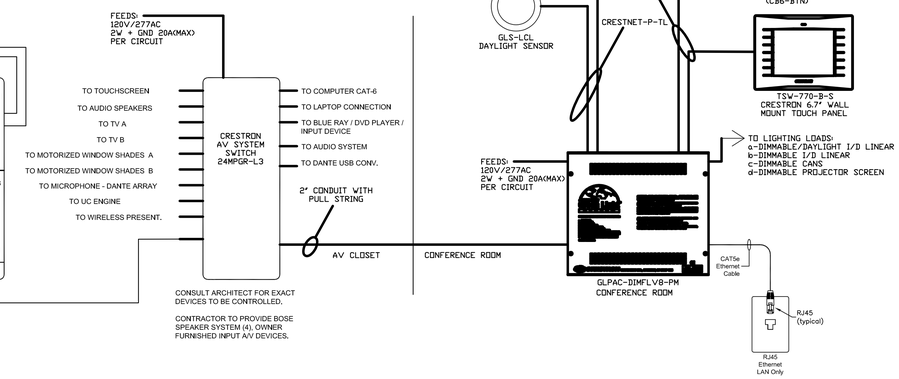
GENERAL NOTES:

1) SOUND/MASKING SYSTEM SHALL BE INSTALLED BY CONTRACTOR. VERIFY REQUIREMENTS WITH VENDOR PRIOR TO INSTALLATION.
2) PA SYSTEM RISER IS SCHEMATIC IN NATURE.
3) VERIFY ALL SYSTEM REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO PURCHASE/INSTALLATION.
4) ALL WIRING SHALL BE PLENUM RATED 12 GUAGE JACKETED/SHIELDED TWISTED PAIR. CONTRACTOR SHALL USE MANUFACTURER PROVIDED VOLTAGE DROP CHARTS TO VERIFY WIRE SIZES.

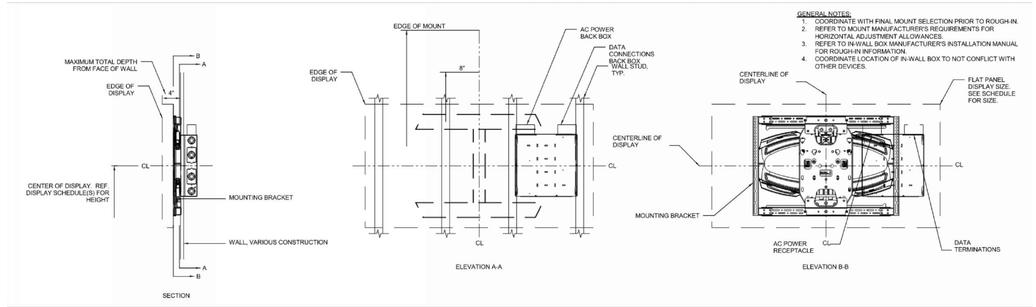
KEYED NOTES:

1. NEW 70V LAY-IN SPEAKER, BOGEN HFCS1LP OR EQUAL BY ATLAS SOUND.
2. BOGEN AMPLIFIER X300W AND DIGITAL INPUT ACCESS MODULE TAMB22PS.
3. WHITE NOISE GENERATOR EQUAL TO ATLAS SOUND TSD-GPN1200 WITH POWER SUPPLY AND TSD-RMK 1RU RACK.
4. WHITE NOISE SPEAKER EQUAL TO ATLAS SOUND M1000R-W (WHITE).
6. ROOM SOUND CONTROL FOR EVERY SPEAKER ZONE EQUAL TO ATLAS MODEL AT10 (OR COMPATABLE) OR BOGEN GSRVC

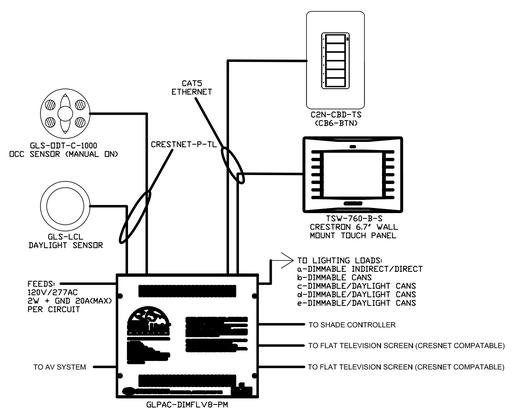
5 PA/WHITE NOISE SPEAKER DIAGRAM
SCALE: NTS



2 CRESTRON CONFERENCE RM 103 AV / LIGHTING CONTROL
SCALE: NTS



4 FLAT PANEL DISPLAY TYPICAL MOUNTING DETAIL
SCALE: NTS



3 CRESTRON CONFERENCE RM LIGHTING LIGHTING CONTROL (TYPICAL)
SCALE: NTS

1 CRESTRON CONFERENCE RM 103 AV / LIGHTING CONTROL
SCALE: NTS

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CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

CORY WILSON
11.26.2024
NUMBER PE-2010007078
STATE OF MISSOURI
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

AUDIO/VISUAL DETAILS

AV400

SHEET 103 OF 102

AUDIO/VISUAL LOUDSPEAKER SCHEDULE

SYMBOL	ID	DESCRIPTION	LOAD TYPE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	INSTALL HEIGHT AFF	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
SC1	SP-C1	MUSAK SPEAKER	70V	ALL	BOGEN #: BOGEN HFCS1LP (BLACK UPPER, WHITE LOWER CEILINGS)	CEILING / FLUSH	T-BAR LAY-IN (CUT IN WOOD/GYP CEILINGS)	CONTRACTOR/CONTRACTOR	1 2 3
SWN	SP-WN	WHITE NOISE SPEAKER	70V	OFFICE AREA	ATLAS SOUND #: M1000R-W (WHITE)	CEILING / FLUSH	T-BAR MOUNT	CONTRACTOR/CONTRACTOR	1 2 4
SS	SP-S	CONF ROOM AUDIO SPEAKERS	70V	CONF ROOM	COMMUNITY #: D6-70V (15 WATT)	CEILING/FLUSH	CUT-IN	CONTRACTOR/CONTRACTOR	1 2

NOTES

1. 12/2 PLENUM RATED CABLING TO AMPLIFIER
2. BACKING AND MOUNTING PER DETAIL ON AV300
3. FOR MUSAK SPEAKERS, FURNISH WALL VOLUME CONTROL BOGEN GSRVC TO BE MOUNTED IN SINGLE GANG BOX
4. FOR WHITE NOISE SPEAKERS, FURNISH ATLAS SOUND AT10 WALL VOLUME CONTROL.

ADDITIONAL EQUIPMENT FOR SOUND:

1. BOGEN AMPLIFIER X300W AND DIGITAL INPUT ACCESS MODULE TAMB22PS.
2. WHITE NOISE GENERATOR EQUAL TO ATLAS SOUND TSD-GPN1200 WITH POWER SUPPLY AND TSD-RMK 1RU RACK.
3. PROVIDE 70W MINIMUM, 2 CHANNEL, 8 OHM IMPED AMPLIFIER FOR CONF ROOM SOUND SYSTEM, 1-2 RACK UNIT MOUNTING, QSC SPA2-60

AUDIO/VISUAL DEVICE SCHEDULE

SYMBOL	ID	DESCRIPTION	BOX TYPE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	(CENTER OF DISPLAY) INSTALL HEIGHT AFF	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
MP	MP	CONF MICROPHONE ARRAY CONNECTION BOX	SHURE MXA910	CONF ROOM	DANTE #: XXX USB ADAPTER - AUDINATE ADP-USB	CEILING / FLUSH	T-BAR LAY-IN (CUT IN WOOD/GYP CEILINGS)	CONTRACTOR/CONTRACTOR	1
CC	CC	VIDEO CONFERENCING CAMERA		CONF ROOM	CRESTRON #: CCS-CAM-USB	SHELF/TV		CONTRACTOR/CONTRACTOR	
	-	VIDEO CONFERENCING SYSTEM		CONF ROOM	CRESTRON #: CAT6 TO USB 3.0 - HD-CONV-USB UC ENGINE - CRESTRON UC ENGINE WIRELESS VIDEO PRESENTATION - CRESTRON AM-200 UC PRESENTATION TRANSMITTER - CRESTRON UC-PR				
TS	TS	SYSTEM TOUCHSCREEN 7" FLAT		CONF ROOM	CRESTRON #: TSW-770-B-S	WALL, DOUBLE GANG BOX		CONTRACTOR/CONTRACTOR	
TTS	TTS	TABLE TOP TOUCHSCREEN W7"		CONF ROOM	CRESTRON #: FLEX MM UC-MM30-R	WORK SURFACE TABLE		CONTRACTOR/CONTRACTOR	
AMP	AMP	CONF SPEAKER AMPLIFIER TYPE 60VM		CONF ROOM	QSC #: SPA2-60	SHELF, IN CABINET		CONTRACTOR/CONTRACTOR	
AVC	AVC	AV&C PROCESSOR DSP FLEX 8 I/O		CONF ROOM	QSC #: QSC CORE 8 FLEX	SHELF, IN CABINET		CONTRACTOR/CONTRACTOR	

NOTES

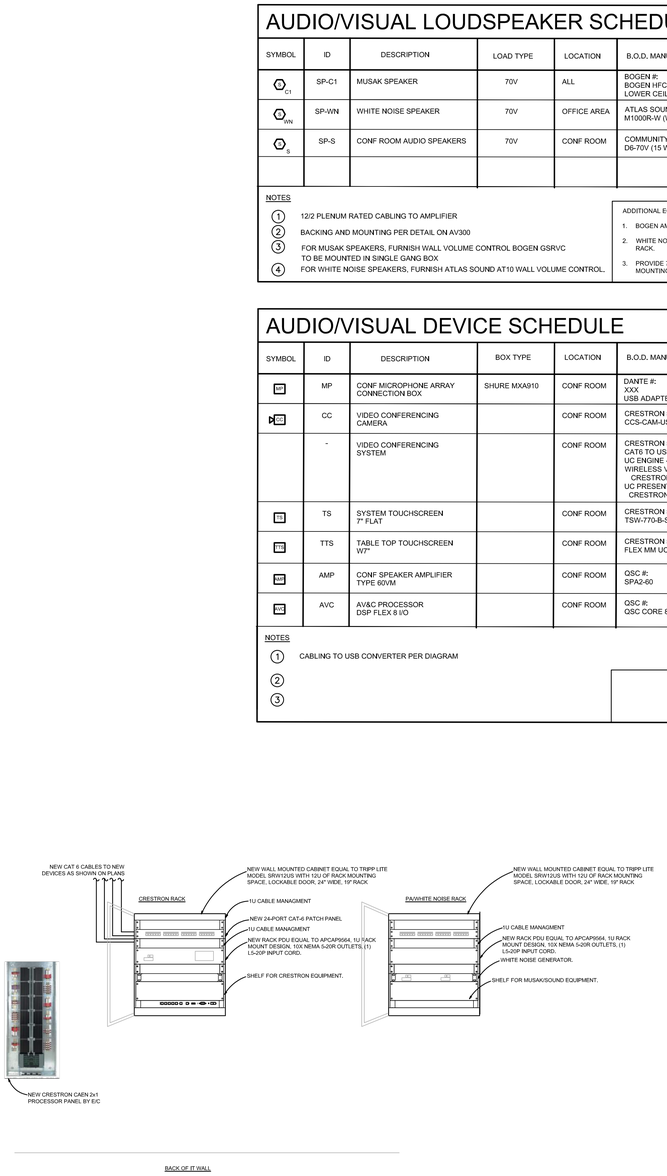
1. CABLING TO USB CONVERTER PER DIAGRAM
2.
3.

AUDIO/VISUAL FLAT PANEL DISPLAY SCHEDULE

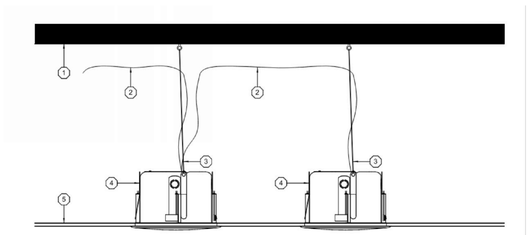
SYMBOL	ID	DESCRIPTION	SIZE	LOCATION	B.O.D. MANUFACTURER & MODEL No.	INSTALL HEIGHT AFF (CENTER OF DISPLAY)	TYPE	INSTALLED/PROVIDED BY:	ADDITIONAL NOTES
	TV-103:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	CONFERENCE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2 3 4
	TV-103:02	LCD COMM DISPLAY - 2160/75 (4K)	75"	CONFERENCE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2 3 4
	TV-129:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	QUIET/WAITING	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2 4
	TV-136:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	PILOT LOUNGE	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2 4
	TV-101:01	LCD COMM DISPLAY - 2160/86 (4K)	86"	CONCOURSE	LG #: 86UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2
	TV-121:01	LCD COMM DISPLAY - 2160/50 (4K)	50"	LINE SERVICE	LG #: 50UR340C	68"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2
	TV-121:02	LCD COMM DISPLAY - 2160/50 (4K)	50"	LINE SERVICE	LG #: 50UR340C	68"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2
	TV-200:01	LCD COMM DISPLAY - 2160/75 (4K)	75"	QUIET/WAITING	LG #: 75UR340C	75"	WALL - ARTICULATING	CONTRACTOR/CONTRACTOR	1 2 4

NOTES

1. LEGRAND A/V POWER/DATA BOX PER POWER/SPECIAL SYSTEMS PLANS
2. BACKING AND MOUNTING PER DETAIL ON AV300
3. CRESTRON A/V CONTROLLER AND DIGITAL MEDIA CONNECTIONS
4. CAT-6 LAN DROP TO TELEVISION, HDMI TO WALL OR FLOOR BOX STATION



5 A/V RACK CABINET DETAILS
SCALE:



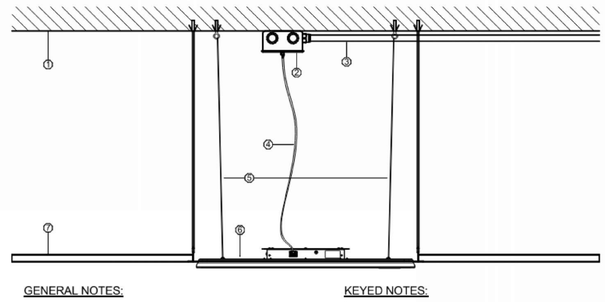
GENERAL NOTES:

1. DETAIL APPLIES TO LOCATIONS WHERE LOUDSPEAKERS ARE MOUNTED WITHIN ACCESSIBLE CEILING.
2. DETAIL SHOWN FOR CONCEPT ONLY. SHOP DRAWING REQUIRED SHOWING FINAL CONFIGURATION WITH APPROVED STRUCTURAL MOUNTING METHOD.
3. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND INSTALL ALL SAFETY CABLES PER INSTRUCTIONS.
4. MOUNTING HEIGHT, SPACING, AND CABLE/CONDUIT LENGTH VARIES BY LOCATION. REFER TO PLANS AND SECTIONS.
5. LOCATE CONDUIT SUCH THAT WIRE MAY BE PULLED AFTER FINISHED CEILING IS IN PLACE.

KEYED NOTES:

1. STRUCTURE
2. CABLE PATHWAY AS SHOWN ON PLANS. ATTACH TO STRUCTURE.
3. SAFETY CABLE PER MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES.
4. CEILING LOUDSPEAKER MOUNTED WITHIN ACCESSIBLE CEILING. REFER TO DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION.
5. FINISHED CEILING AS SCHEDULED.

4 CEILING LOUDSPEAKER MOUNTING DETAILS
SCALE: NTS



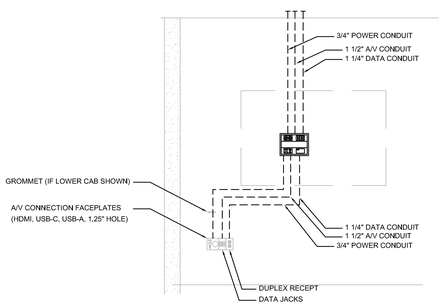
GENERAL NOTES:

1. DETAIL APPLIES TO LOCATIONS WHERE CEILING MICROPHONE ARRAYS ARE MOUNTED IN AN ACCESSIBLE CEILING.
2. DETAIL SHOWN FOR CONCEPT ONLY. SHOP DRAWING REQUIRED SHOWING FINAL CONFIGURATION WITH APPROVED STRUCTURAL MOUNTING METHOD.
3. COMPLY WITH MANUFACTURER'S MOUNTING REQUIREMENTS AND INSTALL ALL SAFETY CABLES PER INSTRUCTIONS.
4. MOUNTING HEIGHT, SPACING, AND CABLE/CONDUIT LENGTH VARIES BY LOCATION. REFER TO PLANS AND SECTIONS.

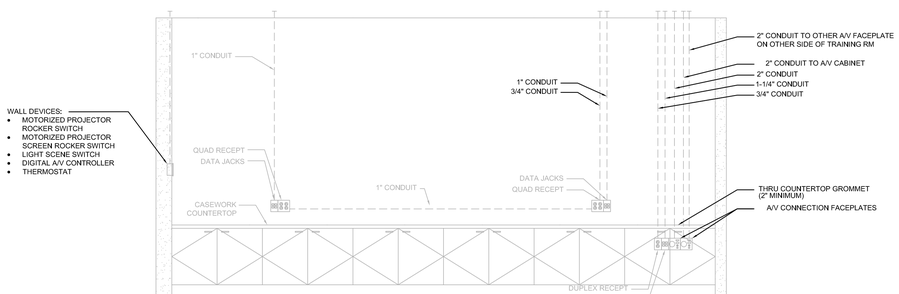
KEYED NOTES:

1. STRUCTURAL SLAB.
2. DATA CABLE, TERMINATION, AND PLATE PROVIDED BY STRUCTURED CABLING.
3. CABLE CONTAINMENT AS REQUIRED BY AHJ, PROVIDED BY EC.
4. PLENUM RATED PATCH CABLE PROVIDED BY AVC.
5. SAFETY CABLE SECURED AS PER MANUFACTURER INSTRUCTIONS PROVIDED BY AVC.
6. CEILING MICROPHONE ARRAY
7. CEILING AS SCHEDULED PROVIDED BY GC.

3 CEILING MICROPHONE ARRAY MOUNTING DETAIL
SCALE: NTS



2 A/V ROUGH-IN ELEVATION - TYPICAL REMOTE TV
SCALE: NTS



1 A/V ROUGH-IN ELEVATION - CONF ROOM 103
SCALE: NTS

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KANSAS CITY, MO 64108

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1627 MAIN STREET, SUITE 100
KANSAS CITY, MO 64108

OWN™
1701 WALNUT STREET, SUITE 300
KANSAS CITY, MO 64108

CITY OF LEE'S SUMMIT
NEW TERMINAL PROJECT

LEE'S SUMMIT MUNICIPAL AIRPORT

STATE OF MISSOURI
CORY WILSON
11.26.2024
NUMBER PE-2010009578
PROFESSIONAL ENGINEER

10-21-2024

LEES SUMMIT MUNICIPAL AIRPORT
LEES SUMMIT, MO

MARK	DATE	DESCRIPTION

PROJECT NO:	2403
CAD DWG FILE:	Lee's Summit - Terminal MEP.rvt
DESIGNED BY:	CMW
DRAWN BY:	DM
CHECKED BY:	WAI
APPROVED BY:	Approver
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SHEET TITLE

AUDIO/VISUAL DETAILS & SCHEDULES

AV500

SHEET 104 OF 102

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