

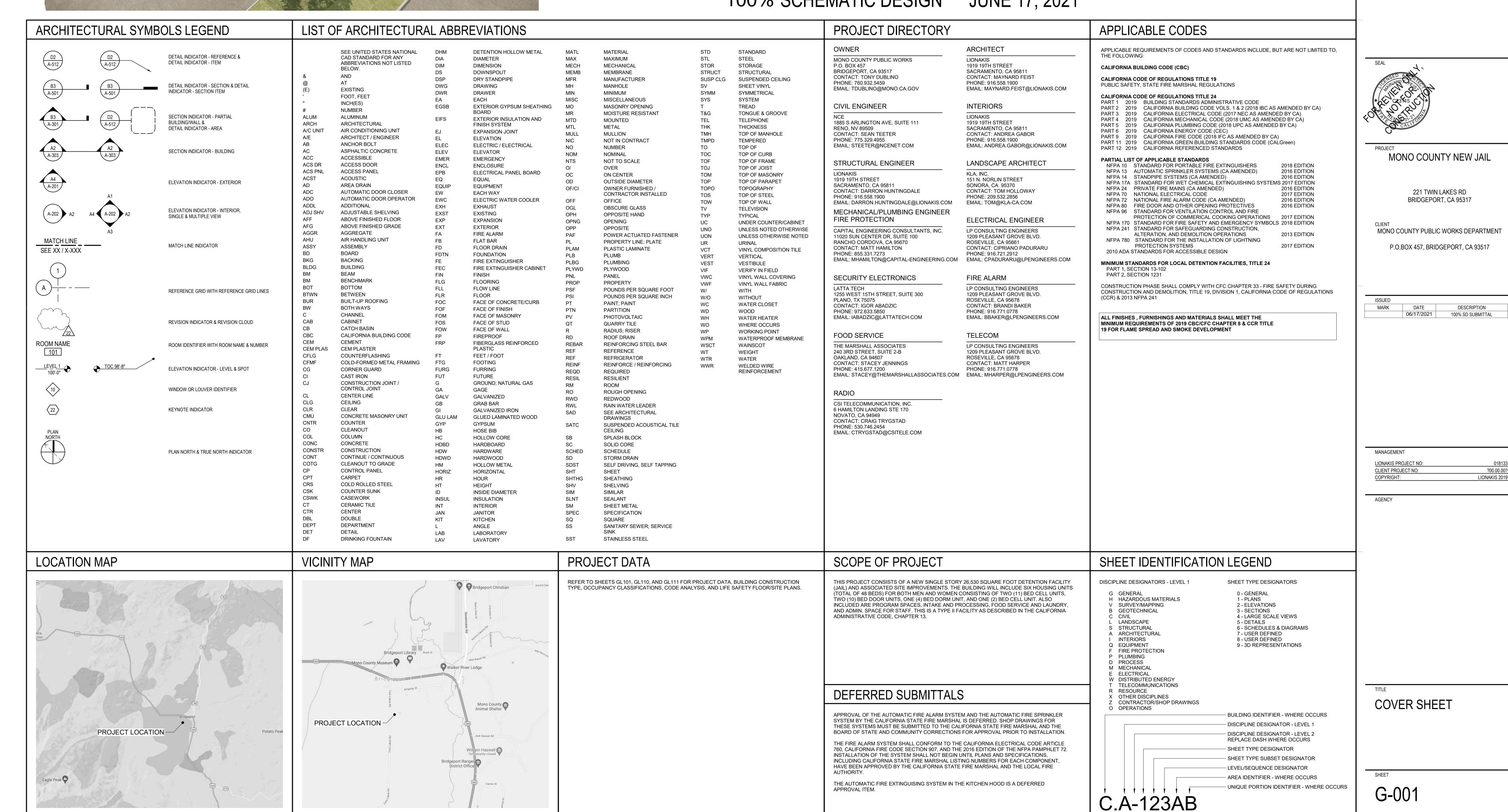
MONO COUNTY PUBLIC WORKS DEPARTMENT

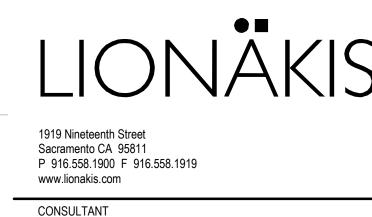
NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY NEW JAIL NEW CONSTRUCTION

100% SCHEMATIC DESIGN JUNE 17, 2021





EP111 POWER PLAN - LEVEL 1 - OVERALL

EP111A POWER PLAN - LEVEL 1 - AREA A

EP111B POWER PLAN - LEVEL 1 - AREA B

EP131 POWER PLAN - ROOF - OVERALL

EP131A POWER PLAN - ROOF - AREA A

EP131B POWER PLAN - ROOF - AREA B

E-411 ENLARGED POWER PLANS

E-511 ELECTRICAL DETAILS E-512 ELECTRICAL DETAILS

E-611 ONE-LINE DIAGRAM

FIRE ALARM

TECHNOLOGY

EL111 LIGHTING PLAN - LEVEL 1 - OVERALL

EL111A LIGHTING PLAN - LEVEL 1 - AREA A

EL111B LIGHTING PLAN - LEVEL 1 - AREA B

EF111 FIRE ALARM PLAN - LEVEL 1 OVERALL

EF111A FIRE ALARM PLAN - LEVEL 1 - AREA A

EF111B FIRE ALARM PLAN - LEVEL 1 - AREA B

T-111A TECHNOLOGY PLAN - LEVEL 1 - AREA A

T-111B TECHNOLOGY PLAN - LEVEL 1 - AREA B

T-611 TECHNOLOGY SINGLE LINE DIAGRAM

TY-001 ELECTRONIC SECURITY SYMBOLS LEGEND

T-002 TECHNOLOGY SYMBOL LEGEND

T-411 ENLARGED TECHNOLOGY PLANS

TY-111 FLOOR PLAN - LEVEL 1 - OVERALL TY-111A FLOOR PLAN - LEVEL 1 - AREA A TY-111B FLOOR PLAN - LEVEL 1 - AREA B

FS1.11 FOODSERVICE EQUIPMENT PLAN

L1.11 LAUNDRY EQUIPMENT PLAN

TS101 TECHNOLOGY SITE PLAN

T-511 TECHNOLOGY DETAILS

T-512 TECHNOLOGY DETAILS

SECURITY ELECTRONICS

TY-471 ENLARGED PLANS

FOODSERVICE AND LAUNDRY

TYS101 SITE PLAN

T-111 TECHNOLOGY FLOOR PLAN

EF001 FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES

T-001 TECHNOLOGY ABBREVIATIONS, NOTES, AND SCHEDULES

S-111 PLAN - FOUNDATION - LEVEL 1 - OVERALL

S-111A PLAN - FOUNDATION - LEVEL 1 - AREA A

S-111B PLAN - FOUNDATION - LEVEL 1 - AREA B

S-121 PLAN - LID FRAMING - LEVEL 2 - OVERALL

S-132 PLAN - LOW ROOF FRAMING - LEVEL 2 - OVERALL

S-132A PLAN - LOW ROOF FRAMING - LEVEL 2 - AREA A

S-132B PLAN - LOW ROOF FRAMING - LEVEL 2 - AREA B

S-133A PLAN - HIGH ROOF FRAMING - LEVEL 3 - AREA A

S-133B PLAN - HIGH ROOF FRAMING - LEVEL 3 - AREA B

S-133 PLAN - HIGH ROOF FRAMING - LEVEL 3 - OVERALL

S-121A PLAN - CELL LID - LEVEL 2 - AREA A

S-121B PLAN - CELL LID - LEVEL 2 - AREA B

S-201 3D VIEWS S-202 3D VIEWS

ARCHITECTURAL

AS101 SITE PLAN AS501 SITE DETAILS

AD101 DEMOLITION - SITE PLAN

AD111 DEMOLITION - FLOOR PLAN - LEVEL 1

A-111 FLOOR PLAN - LEVEL 1 - OVERALL

A-111A FLOOR PLAN - LEVEL 1- AREA A

A-111B FLOOR PLAN - LEVEL 1 - AREA B

A-121 CEILING PLAN - LEVEL 1 - OVERALL

A-121A CEILING PLAN - LEVEL 1 - AREA A

A-121B CEILING PLAN - LEVEL 1 - AREA B

A-211 ELEVATIONS - EXTERIOR - OVERALL

A-621 SCHEDULES / DIAGRAMS - DOORS

A-622 SCHEDULES / DIAGRAMS - DOORS

A-631 SCHEDULES / DIAGRAMS - WINDOWS

A-632 SCHEDULES / DIAGRAMS - WINDOWS

FX-001 FIRE SUPRESSION LEGENDS & NOTES

M-101 HVAC ZONING PLAN - LEVEL 1 - OVERALL M-201A HVAC FLOOR PLAN - LEVEL 1 - AREA A M-201B HVAC FLOOR PLAN - LEVEL 1 - AREA B

FX-201A FIRE SUPRESSION FLOOR PLAN - LEVEL 1 - AREA A FX-201B FIRE SUPRESSION FLOOR PLAN - LEVEL 1 - AREA B

A-133 ROOF PLAN - OVERALL

A-133A ROOF PLAN - AREA A

A-133B ROOF PLAN - AREA B

A-311 SECTIONS - BUILDING

I-131 FLOOR FINISH PLAN

M-001 HVAC LEGENDS & NOTES

M-202A HVAC ROOF PLAN - AREA A M-202B HVAC ROOF PLAN - AREA B

M-002 HVAC SCHEDULES

I-141 WALL FINISH PLAN

FIRE SUPRESSION

MECHANICAL

INTERIORS

1919 Nineteenth Street

CONSULTANT



MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

DATE DESCRIPTION 06/17/2021 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT NO CLIENT PROJECT NO: ?00.00.00? LIONAKIS 2019

AGENCY

SHEET INDEX

G-002





1) NORTH WEST - PERSPECTIVE



2 NORTH EAST- PERSPECTIVE

1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

 DATE
 DESCRIPTION

 06/17/2021
 100% SD SUBMITTAL

MANAGEMENT 018133 ?00.00.00? LIONAKIS 2019 CLIENT PROJECT NO: **AGENCY**

3D RENDERINGS

GRAPHICS

G-911



SOUTH WEST - PERSPECTIVE

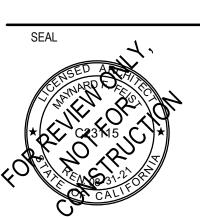
NTS



2 SOUTH EAST - PERSPECTIVE



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PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

CLIENT
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 DATE
 DESCRIPTION

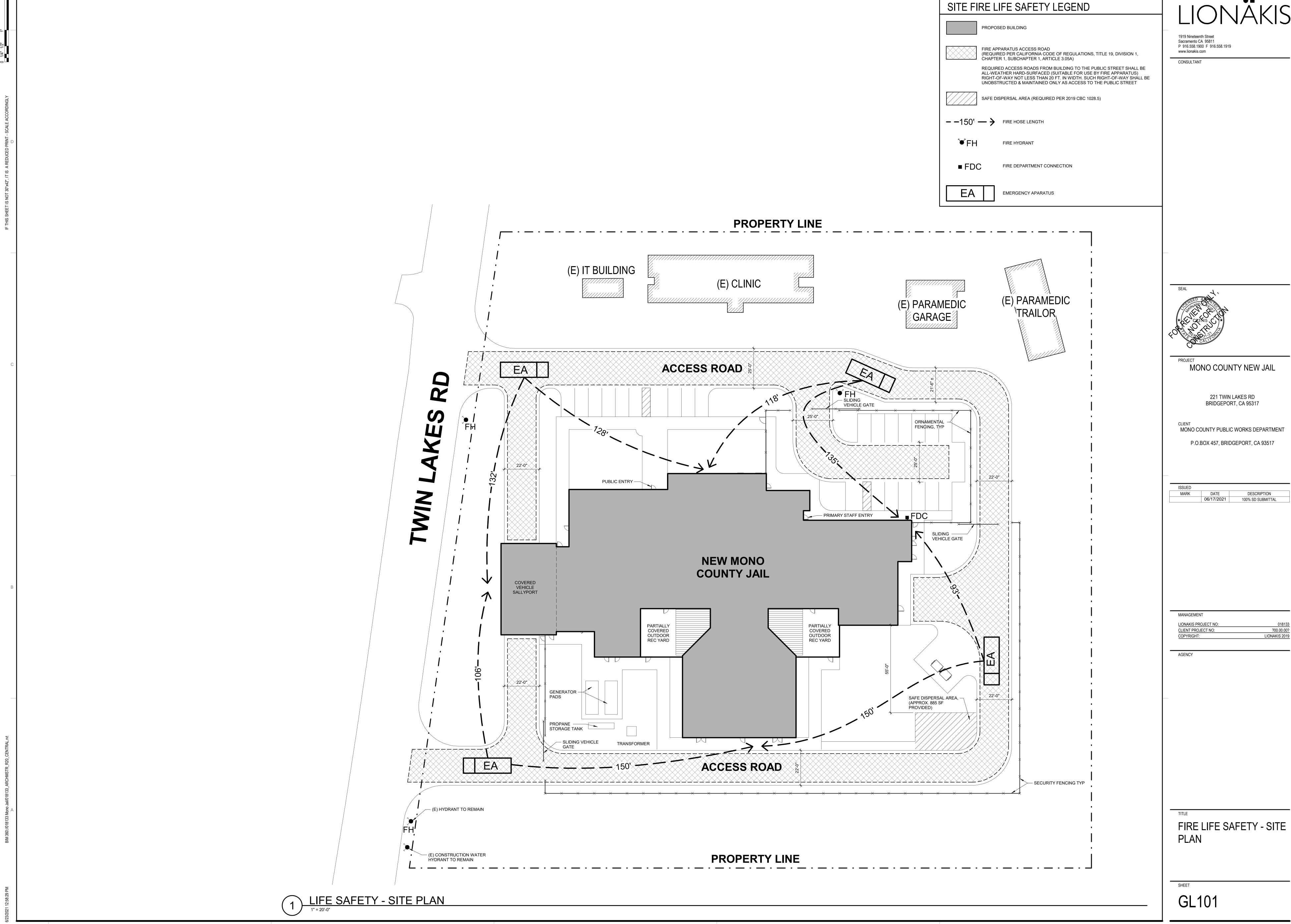
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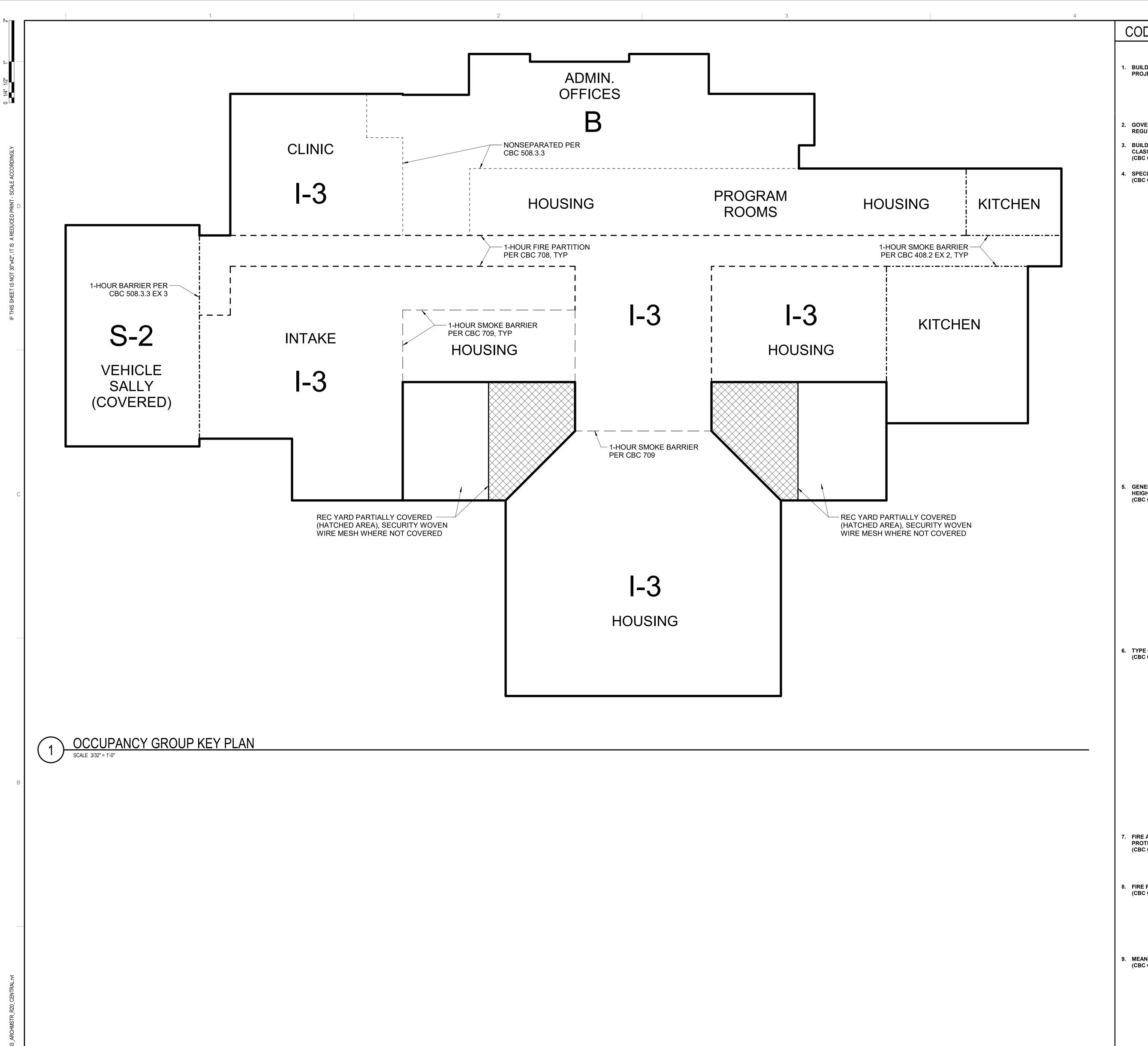
MANAGEMENT 018133 ?00.00.00? LIONAKIS 2019 CLIENT PROJECT NO: AGENCY

3D RENDERINGS

GRAPHICS

G-912





CODE ANALYSIS 2019 CALIFORNIA BUILDING CODE (CBC) BUILDING NAME AND THIS PROJECT CONSISTS OF A NEW SINGLE STORY, 26,530 SQUARE FOOT DETENTION FACILITY (JAIL) AND PROJECT DESCRIPTION: Sacramento CA 95811 ASSOCIATED SITE IMPROVEMENTS. THE BUILDING WILL INCLUDE SIX HOUSING UNITS (TOTAL OF 48 BEDS) P 916.558.1900 F 916.558.1919 FOR BOTH MEN AND WOMEN CONSISTING OF TWO (11) BED CELL UNITS, TWO (10) BED DORM UNITS, ONE www.lionakis.com (4) BED DORM UNIT, AND ONE (2) BED CELL UNIT. ALSO INCLUDED ARE PROGRAM SPACES, INTAKE AND PROCESSING, FOOD SERVICE AND LAUNDRY, AND ADMIN. SPACE FOR STAFF. THIS IS A TYPE II FACILITY CONSULTANT AS DESCRIBED IN THE CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 13. 2. GOVERNING CODES AND SEE COVER SHEET G-001 **REGULATIONS:** BUILDING OCCUPANCY CBC 304 B OCCUPANCY STAFF ADMINISTRATION AREA: 3,075 GSF CLASSIFICATION AND USE CBC 308.4 I-3 OCCUPANCY TYPE II INSTITUTIONAL HOUSING, CONDITION 4 AREA: 21,467 GSF (CBC CHAPTER 3): CBC 311.3 S-2 OCCUPANCY COVERED VEHICLE SALLYPORT AREA: 1,988 GSF TOTAL AREA: 26,530 GSF 4. SPECIAL REQUIREMENTS CBC 408.1.2.2 INTERVENING SPACES:

(CBC CHAPTER 4): COMMON ROOMS AND SPACES WITHIN GROUP I-3 OCCUPANCIES CAN BE CONSIDERED AN INTERVENING SPACE IN ACCORDANCE WITH SECTION 1016.2 AND NOT CONSIDERED A CORRIDOR WHEN INMATE AND/OR STAFF MOVEMENT WITHIN CELL COMPLEXES OF TYPE I CONSTRUCTION. CBC 408.2 EX 2 <u>LAUNDRY AND KITCHEN:</u>
SEPARATED FROM THE REMAINDER OF THE BUILDING BY A SMOKE BARRIER. SMOKE CONTROL:
GROUP I-3 SHALL HAVE SMOKE BARRIERS COMPLYING WITH SECTION 408.8 AND 709 TO CBC 408.6 DIVIDE EVERY STORY OCCUPIED BY RESIDENTS FOR SLEEPING INTO NO FEWER THAN TWO SMOKE COMPARTMENTS. CBC 408.6.1 SMOKE BARRIER:

1. NUMBER OF RESIDENTS IN ANY SMOKE COMPARTMENT SHALL BE NOT MORE THAN 200 2. THE DISTANCE OF TRAVEL TO A DOOR IN A SMOKE BARRIER FROM ANY ROOM DOOR REQUIRED AS EXIT ACCESS SHALL BE NOT GREATER THAN 150 FEET. 3. TRAVEL DISTANCE TO A DOOR IN A SMOKE BARRIER FROM ANY POINT IN A ROOM SHALL NOT BE GREATER THAN 200 FEET. AREA OF REFUGE:
NOT LESS THAN 6 NET SQUARE FEET PER OCCUPANT SHALL BE PROVIDED ON EACH
SIDE OF EACH SMOKE BARRIER FOR THE TOTAL NUMBER OF OCCUPANTS IN ADJOINING CBC 408.6.2 SMOKE COMPARTMENTS CBC 408.9 WINDOWLESS BUILDINGS:
SMOKE VENTING IS NOT REQUIRED PER SECTION 408.9.1 EX 1 AS THE BUILDING MEETS EACH OF THE FOLLOWING CRITERIA: 1.1 TYPE 1-B OR 1-A CONSTRUCTION 1.2 PROTECTED WITH SPRINKLERS THROUGHOUT IN ACCORDANCE WITH SECTION 1.3 INCLUDE FIRE ALARM SYSTEM WITH SMOKE DETECTION IN ACCORDANCE WITH NFPA 72 IN THE DAYROOM AND/OR CORRIDOR SERVING AS EXIT ACCESS FROM THE CELLS, REPORTING TO A 24-HOUR CENTRAL CONTROL AT THE INSTITUTION 1.4 INCLUDE AT LEAST ONE EXIT FROM EACH HOUSING UNIT THAT DISCHARGES DIRECTLY TO THE EXTERIOR 1.5 THE BUILDING IS DIVIDED INTO ATLEAST TWO SMOKE COMPARTMENTS PER 1.6 STAFFING IN THE INSTITUTION IS SUFFICIENT TO EVACUATE INMATES FROM THE SMOKE COMPARTMENT 24 HOURS PER DAY, AS APPROVED BY THE ENFORCING AGENCY OR THE FACILITY IS PROVIDED WITH GANG OR ELECTRIC LOCKS FIRE ALARM SYSTEM: SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 907.2.6.3 CBC 408.10 AUTOMATIC FIRE SPRINKLER SYSTEM:
SHALL BE EQUIPPED THROUGHOUT THE FACILITY IN ACCORDANCE WITH SECTION 903.2.6 CBC 408.11 CBC 408.13 FIXED SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING IN 1-HR CORRIDOR. 5. GENERAL BUILDING **HEIGHTS AND AREAS** TABLE 504.3 ALLOWABLE BUILDING HEIGHT: 180' (FOR B, I-3, AND S-2) (CBC CHAPTER 5): ACTUAL BUILDING HEIGHT: TABLE 504.4 ALLOWABLE NUMBER OF STORIES: 3 (FOR B, I-3, AND S-2) ACTUAL NUMBER OF STORIES: TABLE 506.2 ALLOWABLE BUILDING AREA: 45,300 GSF (FOR B, I-3, AND S-2) ACTUAL BUILDING AREA: 26,530 GSF 221 TWIN LAKES RD CBC 508.3 NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA. SEE OCCUPANCY KEYPLAN ON THIS SHEET AND NOTE THAT A SEPARATION IS BEING PROVIDED BETWEEN I-3 OCCUPANCY AND VEHICLE SALLYPORT PER 508.3.3 EX 3. KITCHEN/LAUNDRY SEPARATION IS BEING PROVIDED PER 408.2 EX 2. P.O.BOX 457, BRIDGEPORT, CA 93517 INCIDENTAL USES:

1. GROUP I-3 CELLS EQUIPPED WITH PADDED 1 HOUR SEPARATION PROVIDED SURFACES (SAFETY & SOBER CELL) 2. WASTE AND LINEN COLLECTION ROOMS 1 HOUR SEPARATION OR AUTOMATIC OVER 100 SF SPRINKLER SYSTEM PROVIDED **6. TYPE OF CONSTRUCTION** TABLE 601 TYPE OF CONSTRUCTION: 1B (CBC CHAPTER 6): MARK BUILDING ELEMENT DATE PROTECTION (HR) 06/17/2021 PRIMARY STRUCTURAL FRAME: BEARING WALLS: EXTERIOR: INTERIOR: NON-BEARING WALLS AND X > 30 FT PARTITIONS, EXTERIOR 10 FT < X < 30 FT (BASED ON FIRE SEPARATION DISTANCE "X") 5 FT < X < 10 FT X < 5 FT NON-BEARING WALLS AND PARTITIONS, INTERIOR: FLOOR CONSTRUCTION AND SECONDARY MEMBERS (CBC SEC 202) ROOF CONSTRUCTION AND SECONDARY MEMBERS (CBC SEC 202) * ROOF SUPPORTS: FIRE-RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE MANAGEMENT SUPPORTING A ROOF ONLY. LIONAKIS PROJECT NO DEGREE OF OPENING PROTECTION / MAXIMUM AREA OF EXTERIOR WALL OPENINGS: UNPROTECTED, SPRINKLERED (UP, S) . FIRE AND SMOKE **TABLE 705.8** CLIENT PROJECT NO: PROTECTION (CBC CHAPTER 7): FIRE SEPARATION DISTANCE (FEET) | MAXIMUM AREA OF EXTERIOR WALL OPENINGS 20 OR GREATER NO LIMIT AGENCY CBC 903.2.6.2 <u>FIRE SPRINKLERS:</u> AUTOMATIC WET SPRINKLER SYSTEM (FULLY SPRINKLERED) 8. FIRE PROTECTION (CBC CHAPTER 9): CBC 905.3.10 STANDPIPE: CLASS I STANDPIPE SYSTEM CBC 907.2.6.3 <u>FIRE ALARM:</u> MANUAL FIRE ALARM SYSTEM AND AUTOMATIC SMOKE DETECTION SYSTEM REQUIRED. AUDIBLE ALARMS, FIRE PROTECTION SIGNALING SYSTEM, AND AUTOMATIC FIRE DETECTION SYSTEM PROVIDED CBC/CFC 906 OTHER FIRE PROTECTION SYSTEM: PORTABLE FIRE EXTINGUISHERS 9. MEANS OF EGRESS CBC 1004 OCCUPANT LOAD: SEE ROOM OCCUPANCY LOADING ON SHEET GL111 TABLE 1004.1.2 (CBC CHAPTER 10): CBC 1005.3.2 MEANS OF EGRESS SIZING - REQUIRED CAPACITY BASE OCCUPANT LOAD: 1. EGRESS COMPONENTS: CAPACITY IN INCHES OF MEANS OF EGRESS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY A FACTOR OF 0.2 INCH. CBC 1006.2.1 SPACE WITH ONE EXIT OR EXIT ACCESS DOORWAY (WITH SPRINKLER SYSTEM): TABLE 1006.2.1 1. MAX OCC LOAD OF SPACE = 49 (B OCCUPANCY) = 10 (I-3 OCCUPANCY EXCEPT HOLDING CELL PER EX 3) = 20 (I-3 HOLDING CELL PER 408.3.11) = 29 (S-2 OCCUPANCY) 2. MAX COMMON PATH OF EGRESS TRAVEL DISTANCE = 100 FEET (B, I-3, S-2) CBC 1017 EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED THE VALUES SHOWN IN TABLE 1017.2 TABLE 1017.2 (WITH SPRINKLER SYSTEM) 1. B OCCUPANCY: 300 FEET 2. I-3 OCCUPANCY: 200 FEET 3. S-2 OCCUPANCY: 400 FEET CODE ANALYSIS CBC 1020 CORRIDORS (WITH SPRINKLER SYSTEM) SHALL BE FIRE RESISTANCE RATED IN TABLE 1020.1 ACCORDANCE WITH TABLE 1020.1. CORRIDOR WALLS REQUIRED TO BE FIRE-RESISTANCE RATED SHALL COMPLY WITH SECTION 708 FOR FIRE PARTITIONS 1. B OCCUPANCY: GREATER THAN 30 OCCUPANTS - NOT REQUIRED 2. I-3 OCCUPANCY: GREATER THAN 6 OCCUPANTS - 1 HOUR FIRE-RESISTANCE 3. S-2 OCCUPANCY: GREATER THAN 30 OCCUPANTS - NOT REQUIRED CBC 11B-232.2.1 CELLS WITH MOBILITY FEATURES 10. ACCESSIBILITY

MINIMUM OF 3% OF TOTAL CELLS IN A FACILITY SHALL PROVIDE MOBILITY FEATURES

COMPLYING WITH SECTION 11B-807.2 (48 CELLS X 3% = 2 CELLS REQUIRED, 2 CELLS

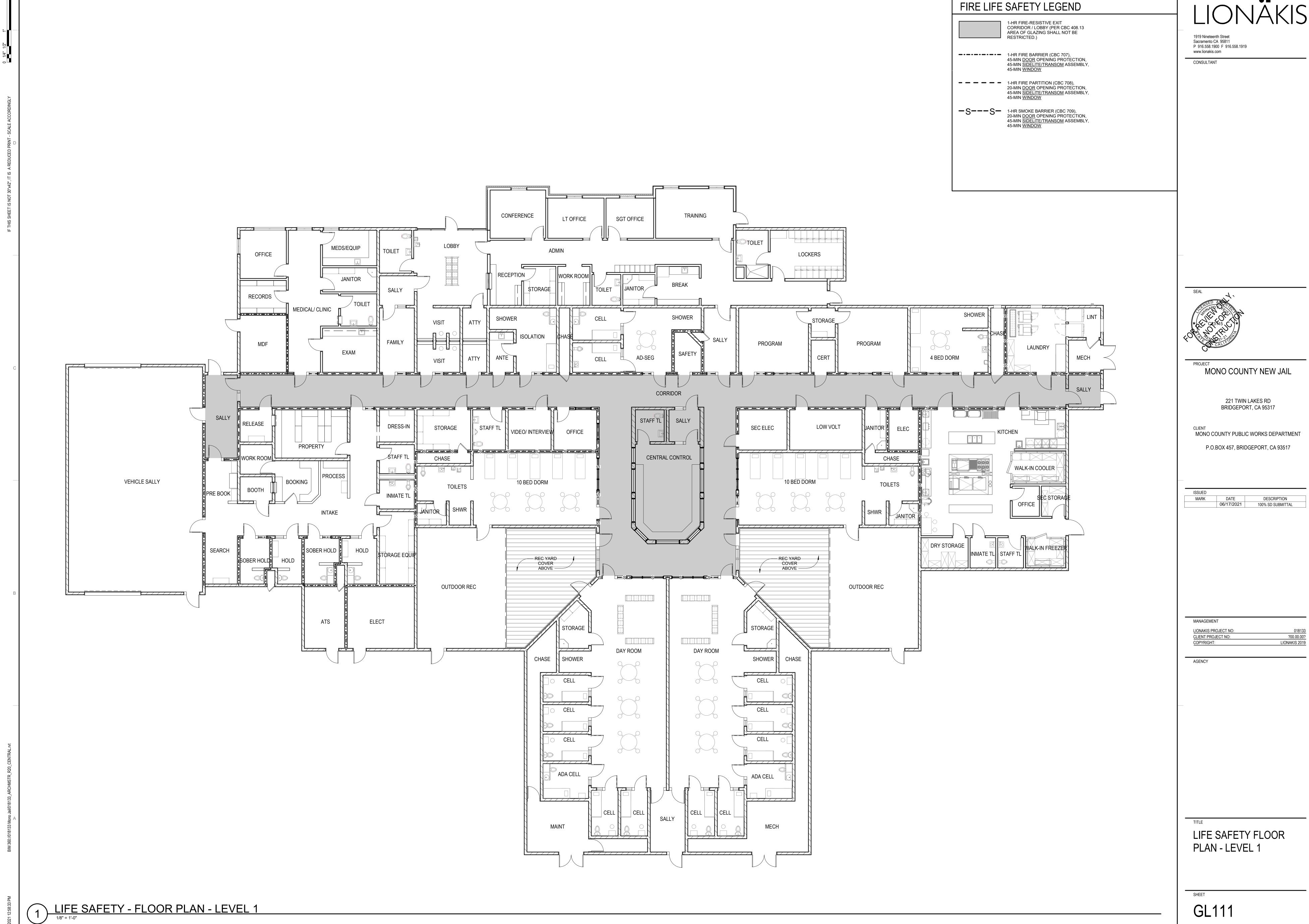
(CBC CHAPTER 11B):

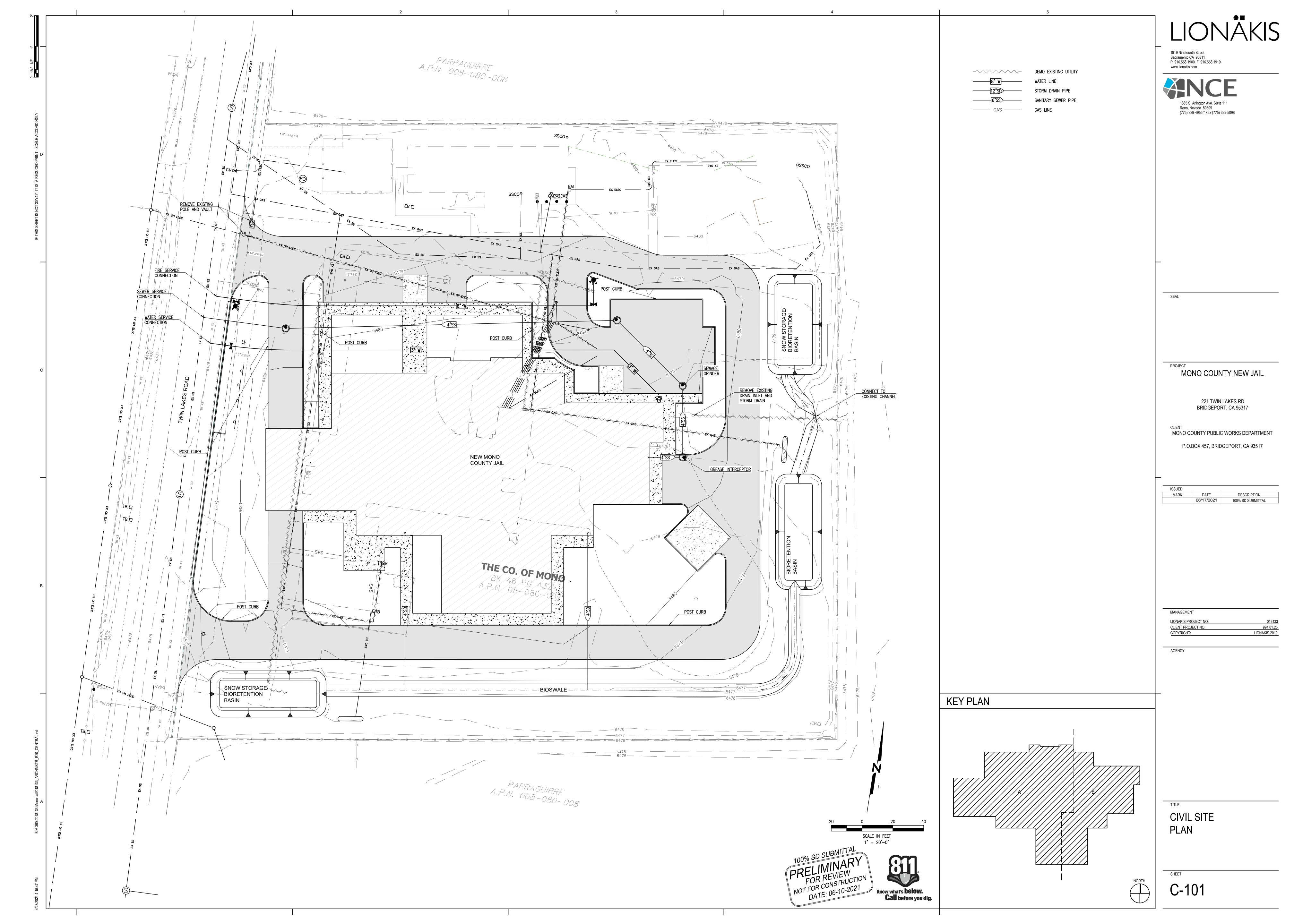
MONO COUNTY NEW JAIL

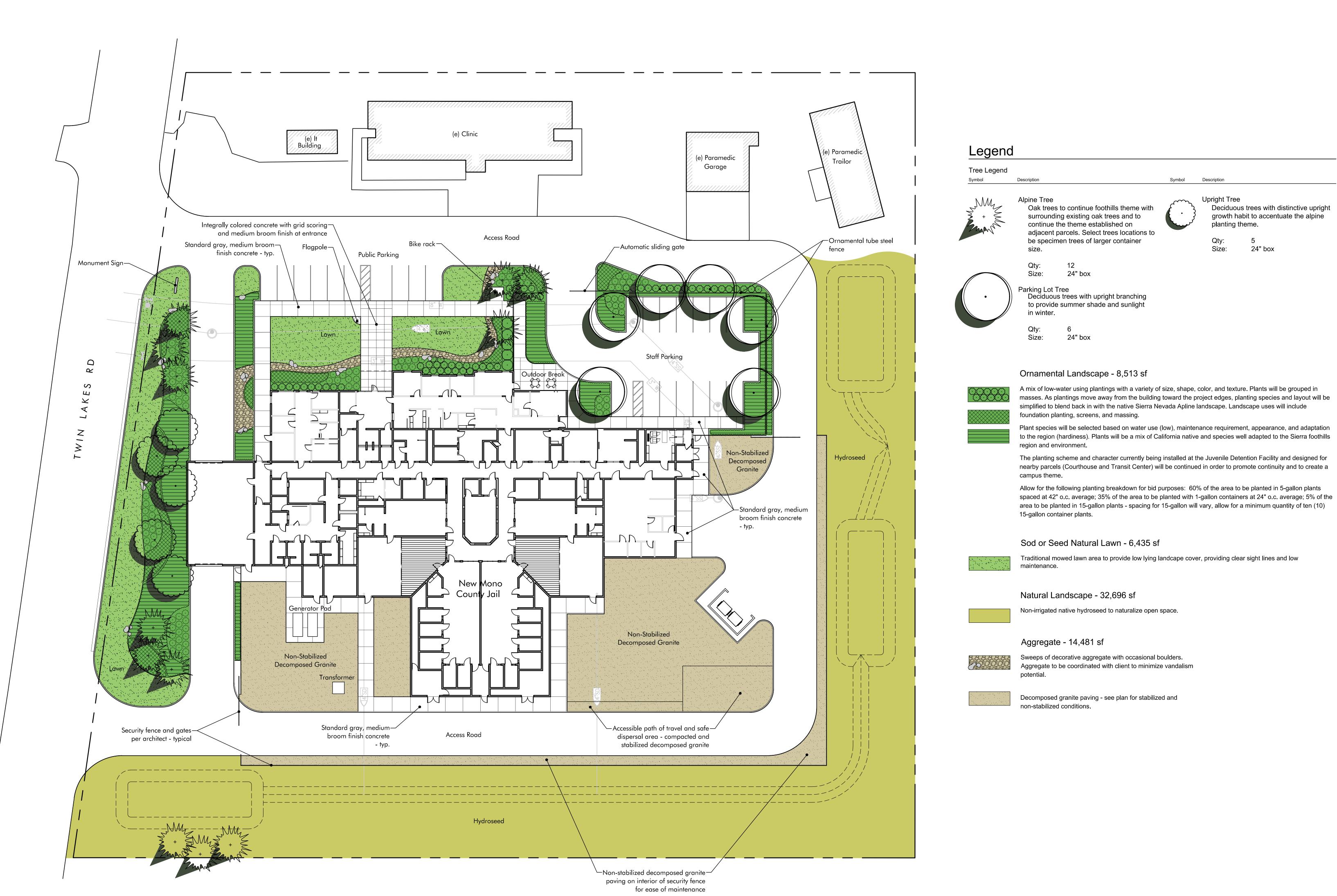
BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT

DESCRIPTION 100% SD SUBMITTAL







1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT



www.kla-ca.com 151 N. Norlin St., Sonora, CA 95370

(209)532-2856



MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

DESCRIPTION 06/17/2021 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT NO: CLIENT PROJECT NO: 21-2313 LIONAKIS 2019 COPYRIGHT:

AGENCY

SCHEMATIC LANDSCAPE

SITE PLAN

LS-101

WOOD BLOCKING OR SHIM

WOOD FRAMING CONTINUOUS

STRUCTURAL GENERAL NOTES 190526. C THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT. ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE FINISHED PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION

COMPLETE PROJECT REQUIREMENTS.

REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PRODUCED FOR THIS PROJECT. SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED

WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR

CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER. SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW, DESIGN, ENFORCEMENT AGENCY APPROVAL AS

REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL

ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS

INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.

DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.

CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS CODES AND REGULATIONS.

ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AITC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY. . FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION

REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO,

ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. 10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL

DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED

11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN. AS AN

INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.

12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETED CONFIGURATION. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACI UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN

13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO. PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT. WATER, FUMES, SMOKE, TRASH, NOISE AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND

14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE INCOMPLETE OR COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING. BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.

15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING. BUT NOT LIMITED TO. COMPARATIVE QUALITY. SUITABILITY. PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBMITTALS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION

16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.

17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

STRUCTURAL DESIGN CRITERIA

BUILDING CODE: 2019 CBC ENFORCEMENT AGENCY: MONO COUNTY COMMUNITY DEVELOPMENT DEPARTMENT -**BUILDING DIVISION**

A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)

ROOF LIVE LOADS: - TYP ROOF AREA - MECHANICAL & ELECTRICAL AREA

B. LATERAL DESIGN CRITERIA

GROUND SNOW LOAD:

SEISMIC SITE CRITERIA: SS=1.20, S1 =0.39, SDS=0.81, SD1 =0.50, SITE CLASS: D

BUILDING CRITERIA: RISK CATEGORY= IV

ROOF

IMPORTANCE FACTOR, I=1.50

SEISMIC DESIGN CATEGORY = D SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM - SPECIAL REINFORCED

MASONRY SHEAR WALLS RESPONSE MODIFICATION FACTOR, R = 5

DESIGN BASE SHEAR: V = SEISMIC RESPONSE COEFFICIENT, Cs=0.24 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE HORIZONTAL IRREGULARITIES: TYPE 1A (TORSIONAL), TYPE 1B (EXTREME TORSIONAL), TYPE

?.?? IN

2 (REENTRANT CORNER), TYPE 3 (DIAPHRAGM DISCONTINUITY), TYPE 4 (OUT-OF-PLANE OFFSET), TYPE 5 (NONPARALLEL) VERTICAL IRREGULARITIES: TYPE 1A (SOFT STORY), TYPE 1B (EXTREME SOFT STORY), TYPE 2 (MASS), TYPE 3 (GEOMETRIC), TYPE 4 (IN-PLANE DISCONTINUITY), TYPE 5A (WEAK STORY), TYPE 5B (EXTREME WEAK STORY)

BUILDING DISPLACEMENT (AMPLIFIED): INTERSTORY DISPLACEMENT GROUND 0.00 IN SECOND FLOOR ?.?? IN

ULTIMATE DESIGN WIND SPEED, V(ULT) = 108 MPH NOMINAL DESIGN WIND SPEED, V(ASD) = 82 MPH

RISK CATEGORY = IV WIND EXPOSURE = C GCPI = +/-0.18COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16

EXPOSURE: B RISK CATEGORY = IV IMPORTANCE FACTOR, Is = 1.20

THERMAL FACTOR, Ct = 1.0SOIL DESIGN CRITERIA

SOIL INFO IS BASED ON GEOTECHNICAL REPORT BY: NAME OF GEOTECHNICAL ENGINEER / REPORT NUMBER

SPREAD FOUNDATIONS: ALLOWABLE BEARING PRESSURE DL + LL = ???? PSF

DATED: REPORT DATE

DL + LL + LATERAL = ???? PSF COEFFICIENT OF FRICTION = ????

ALLOWABLE PASSIVE PRESSURE = ??? PCF

IF FRICTIONAL RESISTANCE AND PASSIVE PRESSURE ARE COMBINED, FRICTION IS REDUCED BY 50%

RETAINING WALLS: - AT-REST EARTH PRESSURE = ?? PCF ACTIVE EARTH PRESSURE = ?? PCF

INCREMENTAL SEISMIC ACTIVE EARTH PRESSURE = ?? PCF ACTING AT ?.?? TIMES THE

PROJECT DIRECTORY

OWNER

20 PSF (REDUCIBLE)

TOTAL DISPLACEMENT

0.00 IN

?.?? IN

?.?? IN

50 PSF (NON-REDUCIBLE)

MONO COUNTY PUBLIC WORKS

EMAIL: TDUBLINO@MONO.CA.GOV

1885 S ARLINGTON AVE. SUITE 111

EMAIL: STEETER@NCENET.COM

STRUCTURAL ENGINEER

CONTACT: DARRON HUNTINGDALE

11020 SUN CENTER DR, SUITE 100

RANCHO CORDOVA, CA 95670

CONTACT: MATT HAMILTON

PHONE: 855.331.7273

PLANO, TX 75075

PHONE: 972.633.5850

CAPITAL ENGINEERING CONSULTANTS, INC.

BRIDGEPORT, CA 93517

PHONE: 760.932.5459

CIVIL ENGINEER

CONTACT: SEAN TEETER

PHONE: 775.329.4955

1919 19TH STREET

PHONE: 916.558.1900

SACRAMENTO, CA 95811

FIRE PROTECTION

RENO. NV 89509

CONTACT: TONY DUBLINO

ARCHITECT LIONAKIS 1919 19TH STREET SACRAMENTO, CA 95811 CONTACT: MAYNARD FEIST PHONE: 916.558.1900 EMAIL: MAYNARD.FEIST@LIONAKIS.COM

INTERIORS

LIONAKIS 1919 19TH STREET SACRAMENTO, CA 95811 **CONTACT: ANDREA GABOR** PHONE: 916.558.1900 EMAIL: ANDREA.GABOR@LIONAKIS.COM

LANDSCAPE ARCHITECT 151 N. NORLIN STREET SONORA, CA 95370

CONTACT: TOM HOLLOWAY

PHONE: 209.532.2856

PHONE: 916.721.2912

EMAIL: DARRON.HUNTINGDALE@LIONAKIS.COM EMAIL: TOM@KLA-CA.COM MECHANICAL/PLUMBING ENGINEER ELECTRICAL ENGINEER LP CONSULTING ENGINEERS 1209 PLEASANT GROVE BLVD. ROSEVILLE, CA 95661 CONTACT: CIPRIANO PADURARU

EMAIL: MHAMILTON@CAPITAL-ENGINEERING.COM EMAIL: CPADURARU@LPENGINEERS.COM SECURITY ELECTRONICS FIRE ALARM

LP CONSULTING ENGINEERS 1255 WEST 15TH STREET, SUITE 300 1209 PLEASANT GROVE BLVD. ROSEVILLE, CA 95678 CONTACT: IGOR ABADZIC CONTACT: BRANDI BAKER PHONE: 916.771.0778 EMAIL: IABADZIC@LATTATECH.COM EMAIL: BBAKER@LPENGINEERS.COM

FOOD SERVICE TELECOM LP CONSULTING ENGINEERS THE MARSHALL ASSOCIATES 240 3RD STREET, SUITE 2-B 1209 PLEASANT GROVE BLVD. ROSEVILLE, CA 95678 OAKLAND, CA 94607 CONTACT: STACEY JENNINGS CONTACT: MATT HARPER PHONE: 415.677.1200 PHONE: 916.771.0778 EMAIL: STACEY@THEMARSHALLASSOCIATES.COM EMAIL: MHARPER@LPENGINEERS.COM

RADIO CSI TELECOMMUNICATION, INC

6 HAMILTON LANDING STE 170 NOVATO, CA 94949 CONTACT: CRAIG TRYGSTAD PHONE: 530.746.2454 EMAIL: CTRYGSTAD@CSITELE.COM

STRUCTURAL SHEET INDEX SHEET NUMBER SHEET NAME GENERAL NOTES PLAN - FOUNDATION - LEVEL 1 - OVERALI PLAN - FOUNDATION - LEVEL 1 - AREA A PLAN - FOUNDATION - LEVEL 1 - AREA B PLAN - LID FRAMING - LEVEL 2 - OVERALL PLAN - CELL LID - LEVEL 2 - AREA A

PLAN - CELL LID - LEVEL 2 - AREA B PLAN - LOW ROOF FRAMING - LEVEL 2 - OVERALL PLAN - LOW ROOF FRAMING - LEVEL 2 - AREA A PLAN - LOW ROOF FRAMING - LEVEL 2 - AREA B S-132B PLAN - HIGH ROOF FRAMING - LEVEL 3 - OVERAL PLAN - HIGH ROOF FRAMING - LEVEL 3 - AREA A PLAN - HIGH ROOF FRAMING - LEVEL 3 - AREA B S-133B 3D VIFWS 3D VIEWS

SHEET COUNT: 15 STRUCTURAL DEFERRED SUBMITTALS

THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR DEFERRED APPROVAL BY THE ENFORCEMENT AGENCY PRIOR TO FABRICATION OR INSTALLATION.

SEE THE SPECIFICATIONS AND STRUCTURAL DESIGN CRITERIA FOR REQUIRED PERFORMANCE AND LOADING CRITERIA.

DEFERRED SUBMITTALS ARE SUBJECT TO ALL THE REQUIREMENTS OF OTHER SUBMITTALS. SUBMITTAL DOCUMENTS AND SUPPORTING DESIGN CALCULATIONS SHALL BE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER.

DOCUMENTS AND CALCULATIONS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE PROJECT PRIOR TO SUBMITTAL TO THE ENFORCEMENT AGENCY.

DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE ENFORCEMENT AGENCY.

LIST OF DEFERRED SUBMITTALS: 1. STEEL JOISTS/JOIST GIRDERS WOOD TRUSSES

3. ELEVATOR GUIDE RAILS AND SUPPORTS 4. WINDOW WALL SYSTEMS / STOREFRONTS 5. EXTERIOR WALL SYSTEMS

6. SKYLIGHTS 7. BLEACHERS

8. FIRE PUMPS & WATER TANKS 9. ACCESS FLOORS

10. STAGE RIGGING

. THE FIRE RESISTANCE RATING OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE REQUIREMENTS INDICATED IN THE

TYPE AND THE FIRE AND SMOKE PROTECTION MATERIALS. SYSTEMS OR ASSEMBLIES REQUIRED TO PROVIDE THE NECESSARY FIRE RESISTANCE RATING FOR STRUCTURAL

FIRE RESISTANCE RATINGS SHALL BE MAINTAINED FOR OPENINGS OR PENETRATIONS PROTECTION SYSTEMS OR ASSEMBLIES.

COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH THE BUILDING CODE.

WHEN FIRE PROTECTION IS REQUIRED. THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME SHALL INCLUDE ALL OF THE FOLLOWING STRUCTURAL MEMBERS: THE COLUMNS STRUCTURAL MEMBERS HAVING DIRECT CONNECTIONS TO THE COLUMNS, INCLUDING GIRDERS, BEAMS, TRUSSES AND SPANDRELS MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS

CARRIES GRAVITY LOADS WHEN FIRE PROTECTION IS REQUIRED, THE FOLLOWING STRUCTURAL MEMBERS SHALL BE CONSIDERED SECONDARY MEMBERS AND NOT PART OF THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME: STRUCTURAL MEMBERS NOT HAVING DIRECT CONNECTIONS TO THE COLUMNS MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION NOT HAVING

OF RESTRAINT FOR FLOOR AND ROOF STRUCTURAL ASSEMBLIES AND FOR INDIVIDUAL BEAMS SHALL CONFORM TO ASTM E119. USE THE FOLLOWING FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS, UNO: UNRESTRAINED

COLD FORMED STEEL FRAMING STEEL FRAMING SUPPORTED BY BEARING WALLS CONCRETE FRAMING SUPPORTED BY BEARING WALLS RESTRAINED STEEL FRAMING

CONCRETE FRAMING

FIRE / SMOKE PROTECTION OF STRUCTURE

CONSTRUCTION DOCUMENTS.

SEE THE NONSTRUCTURAL CONSTRUCTION DOCUMENTS FOR THE BUILDING CONSTRUCTION

THROUGH STRUCTURAL BUILDING ELEMENTS THAT ARE PART OF THE FIRE AND SMOKE

FIREBLOCKING AND DRAFTSTOPPING SHALL BE PROVIDED AT STRUCTURAL FRAMING IN

BRACING MEMBERS THAT ARE ESSENTIAL TO THE VERTICAL STABILITY OF THE PRIMARY STRUCTURAL FRAME UNDER GRAVITY LOADING WHETHER OR NOT THE BRACING MEMBER

DIRECT CONNECTIONS TO THE COLUMNS BRACING MEMBERS OTHER THAN THOSE THAT ARE PART OF THE PRIMARY STRUCTURAL

FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS USED FOR DETERMINING CONDITIONS

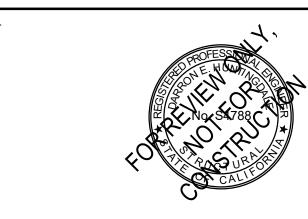
WOOD FRAMING

Sacramento CA 95811

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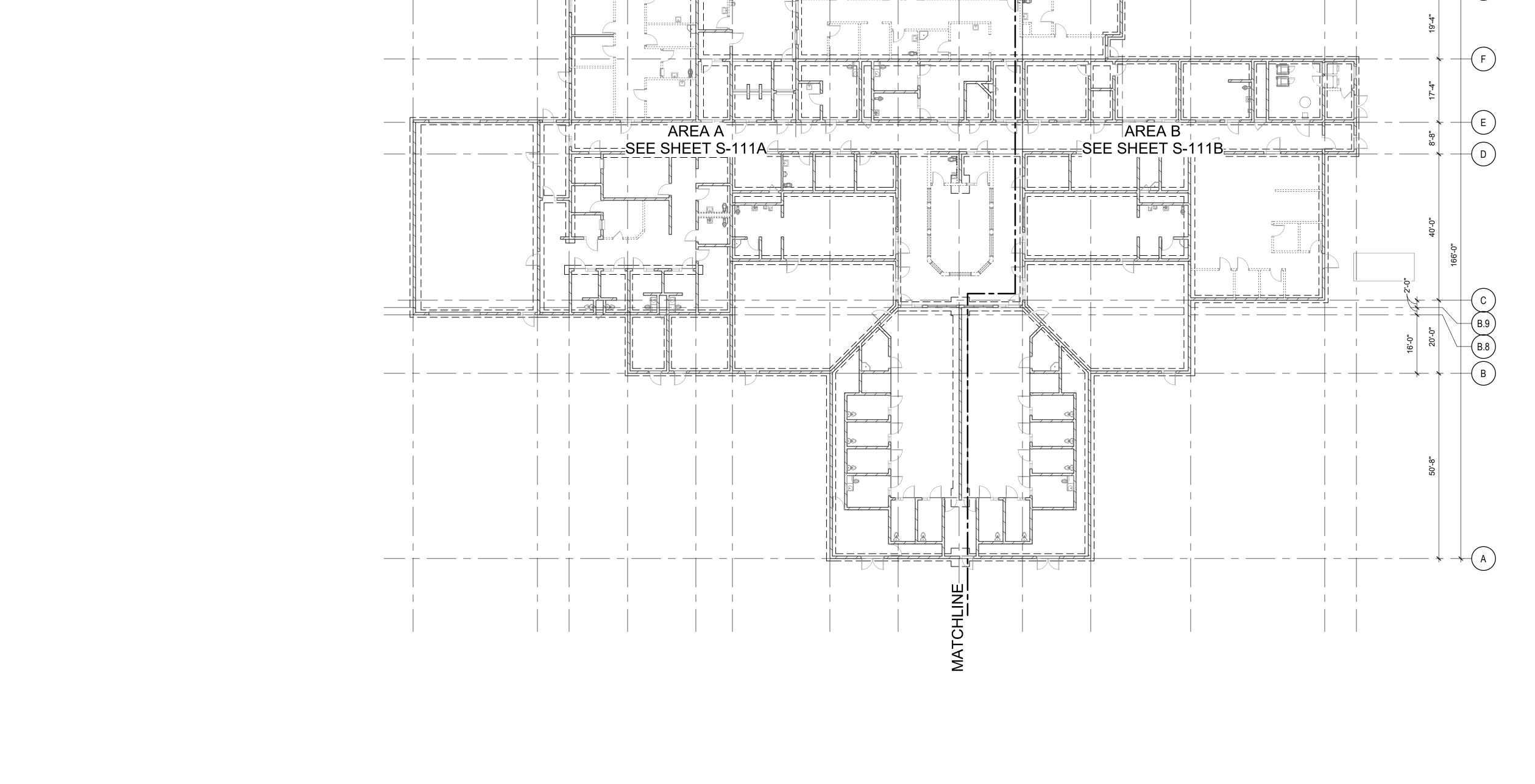
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AGENCY

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GENERAL NOTES





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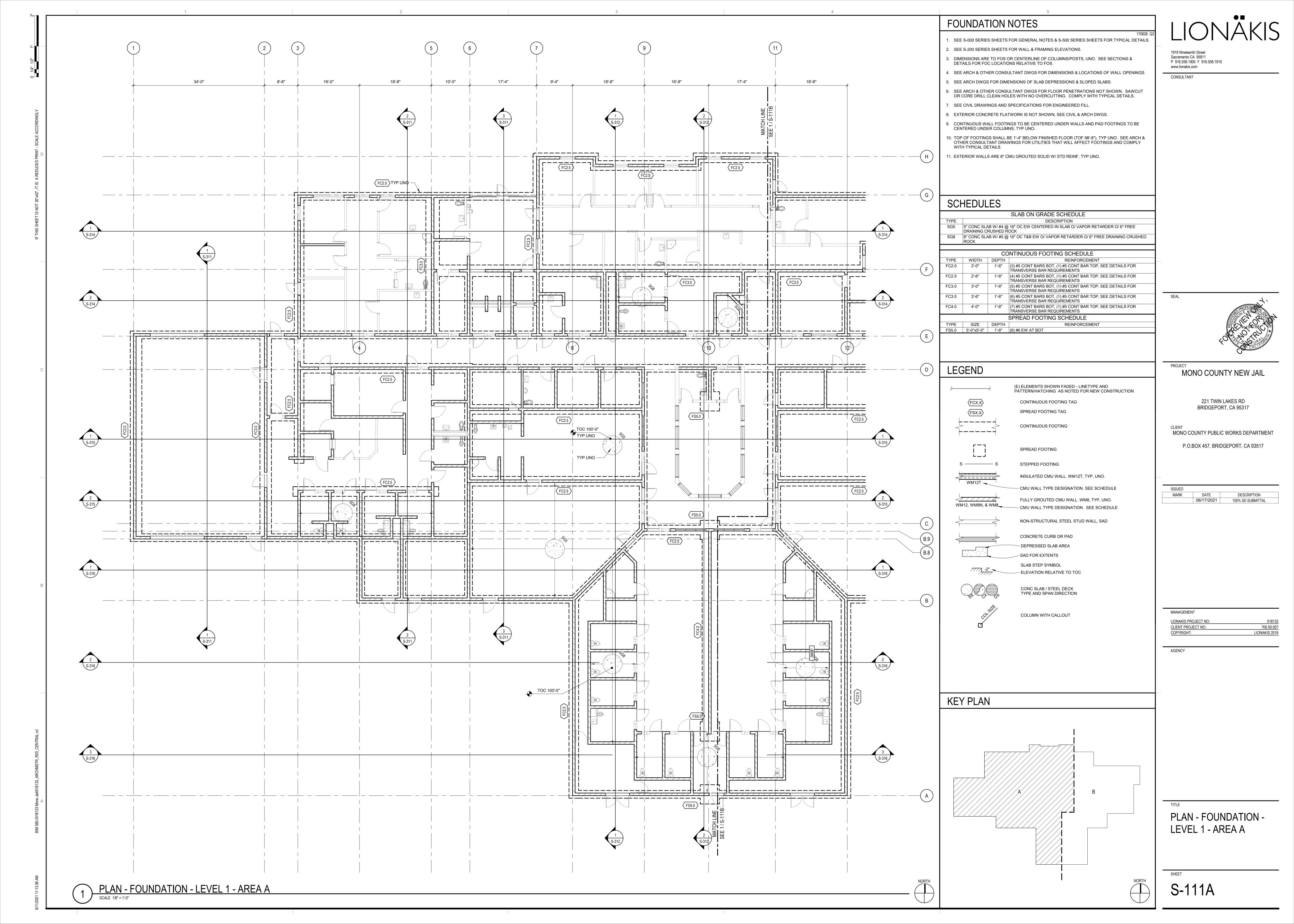
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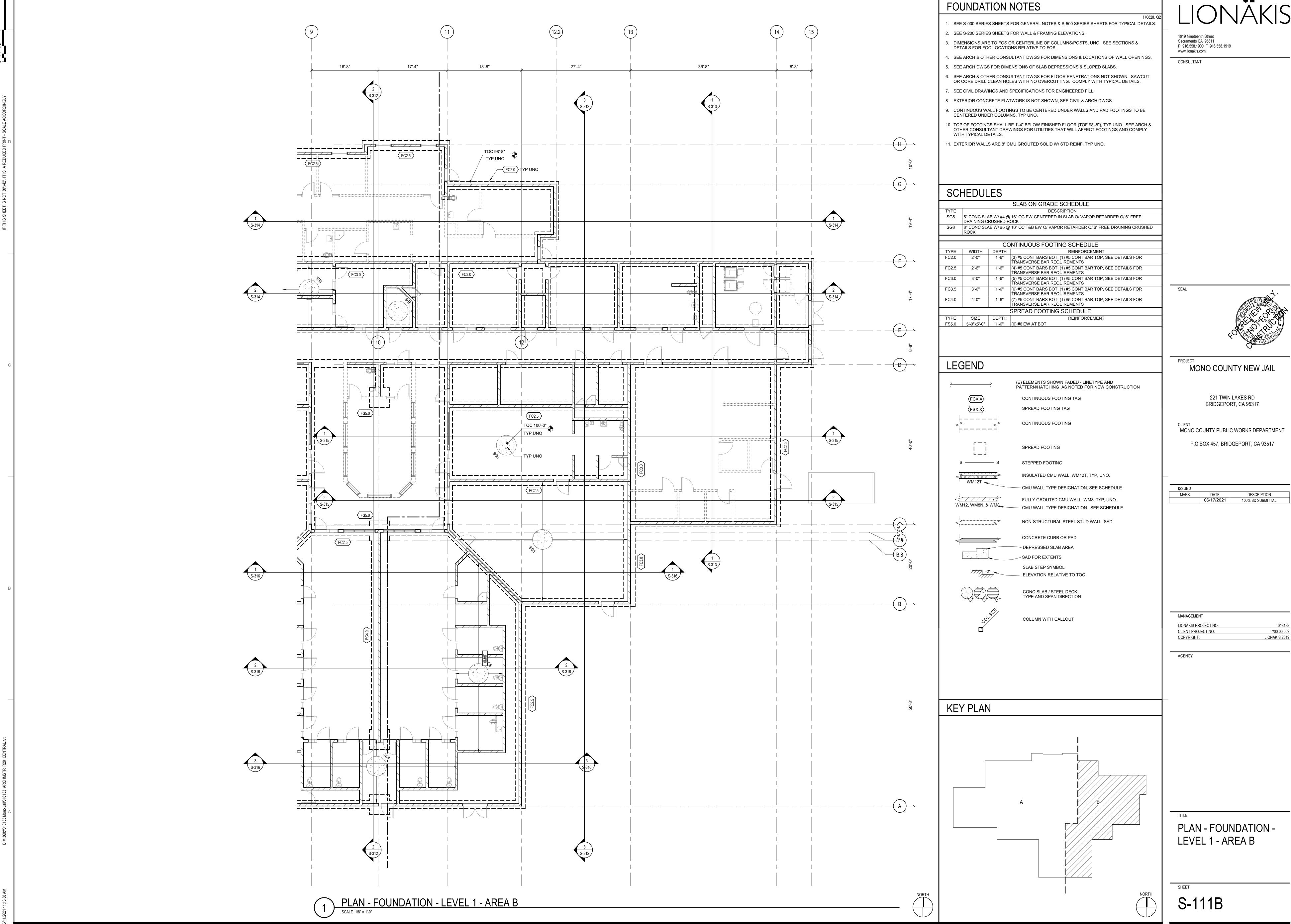
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MANAGEMENT ?00.00.00? CLIENT PROJECT NO: LIONAKIS 2019

PLAN - FOUNDATION -LEVEL 1 - OVERALL





SHEET IS NOT 30"x42" IT IS A REDITCED PRINT - SCALE ACCORDINGLY

1 34'

AREA A AREA B _SEE SHEET S-121A_____ - - - - -

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Sacramento CA 95811
P 916.558.1900 F 916.558.1919
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SEAL

ROFESSON

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 LIONAKIS PROJECT NO:
 018133

 CLIENT PROJECT NO:
 ?00.00.00?

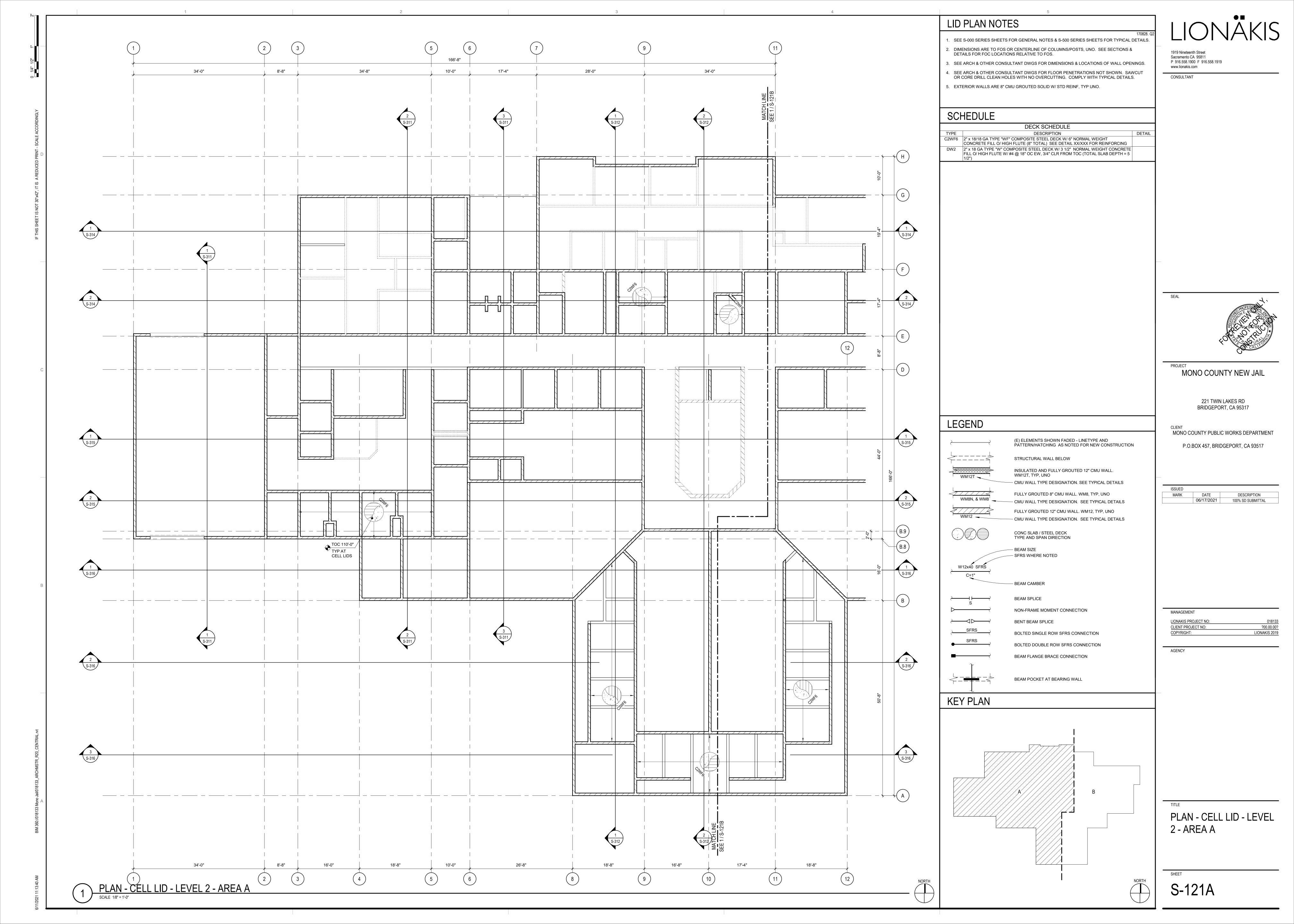
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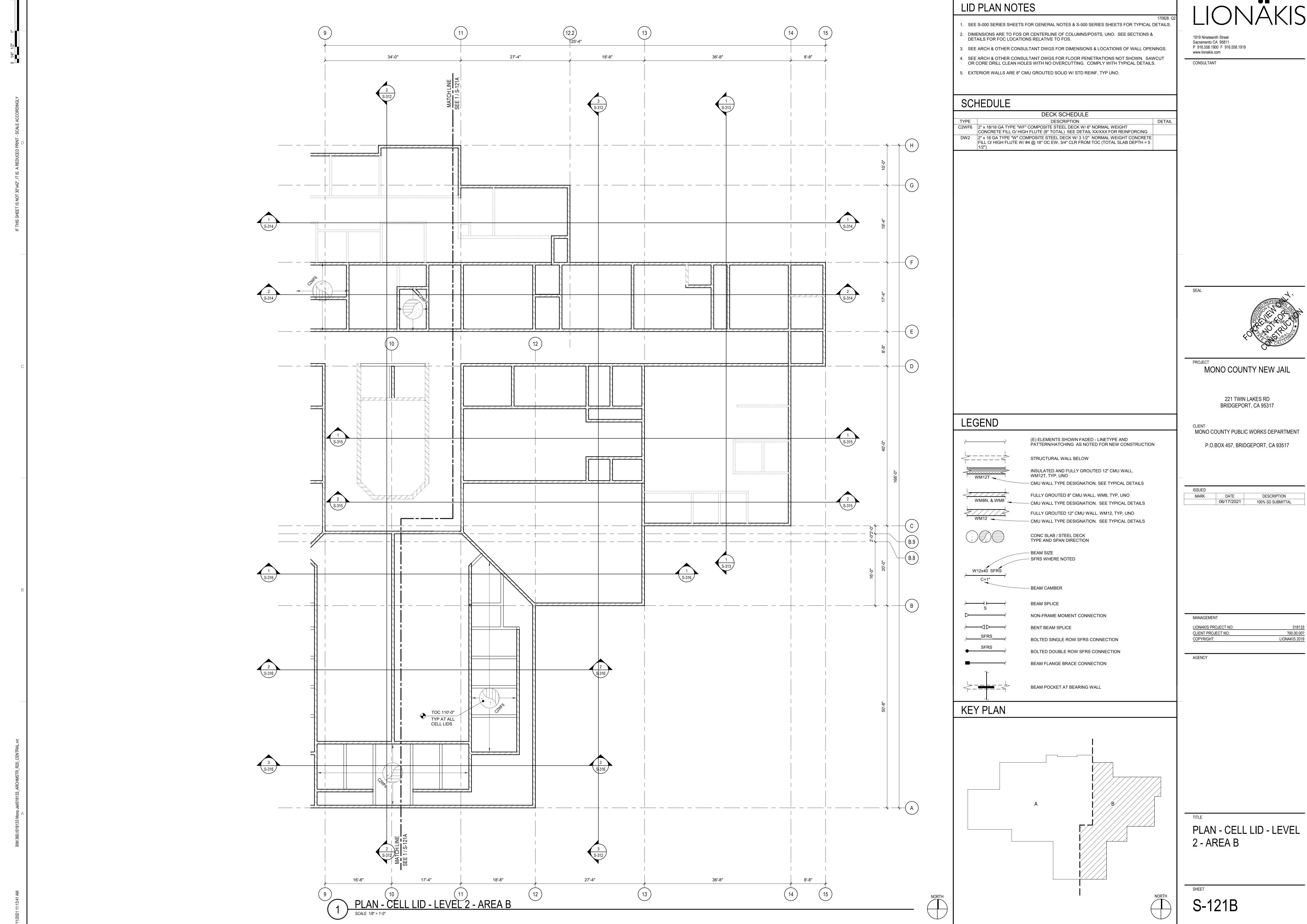
AGEN

TITLE

PLAN - LID FRAMING -LEVEL 2 - OVERALL

SHEET



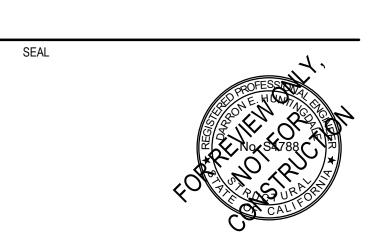


AREA A O AREA B SEE SHEET S-132A _SEE SHEET S-132B____ PLAN - LOW ROOF FRAMING - LEVEL 2 - OVERALL

SCALE 1/16" = 1'-0"



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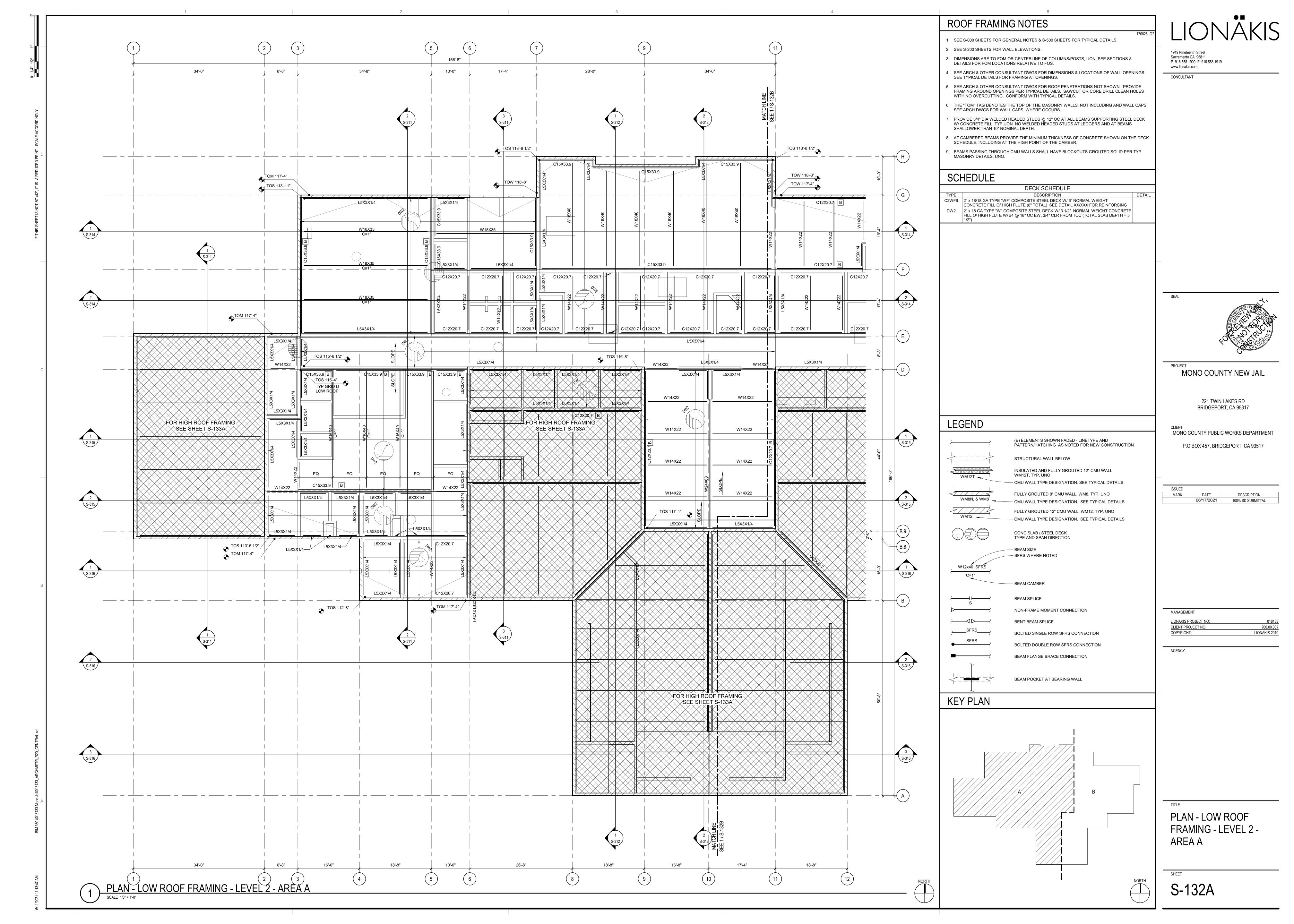
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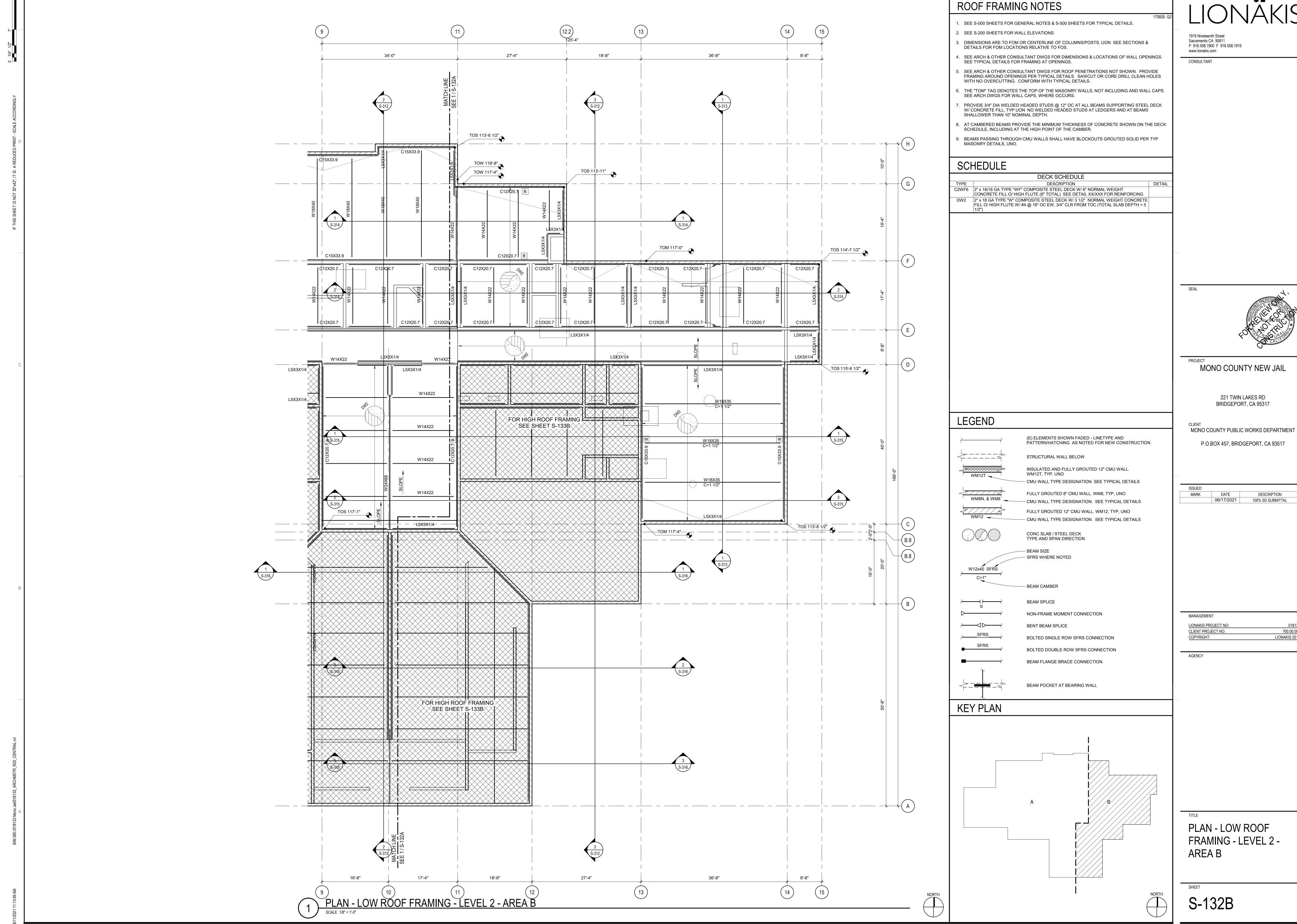
AGEN

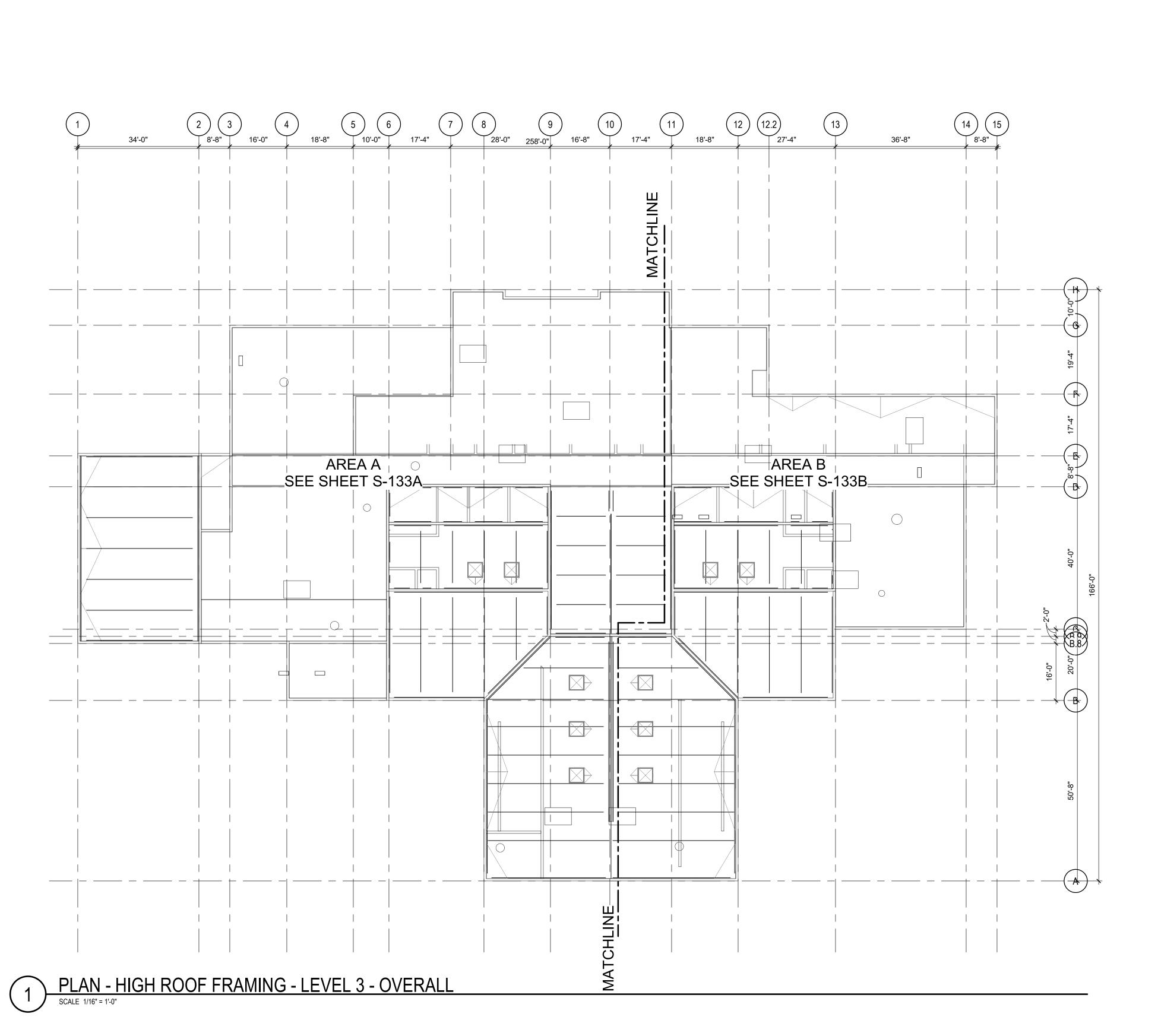
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PLAN - LOW ROOF FRAMING - LEVEL 2 -OVERALL

SHEET





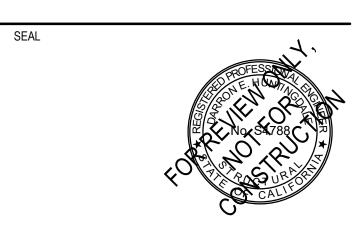


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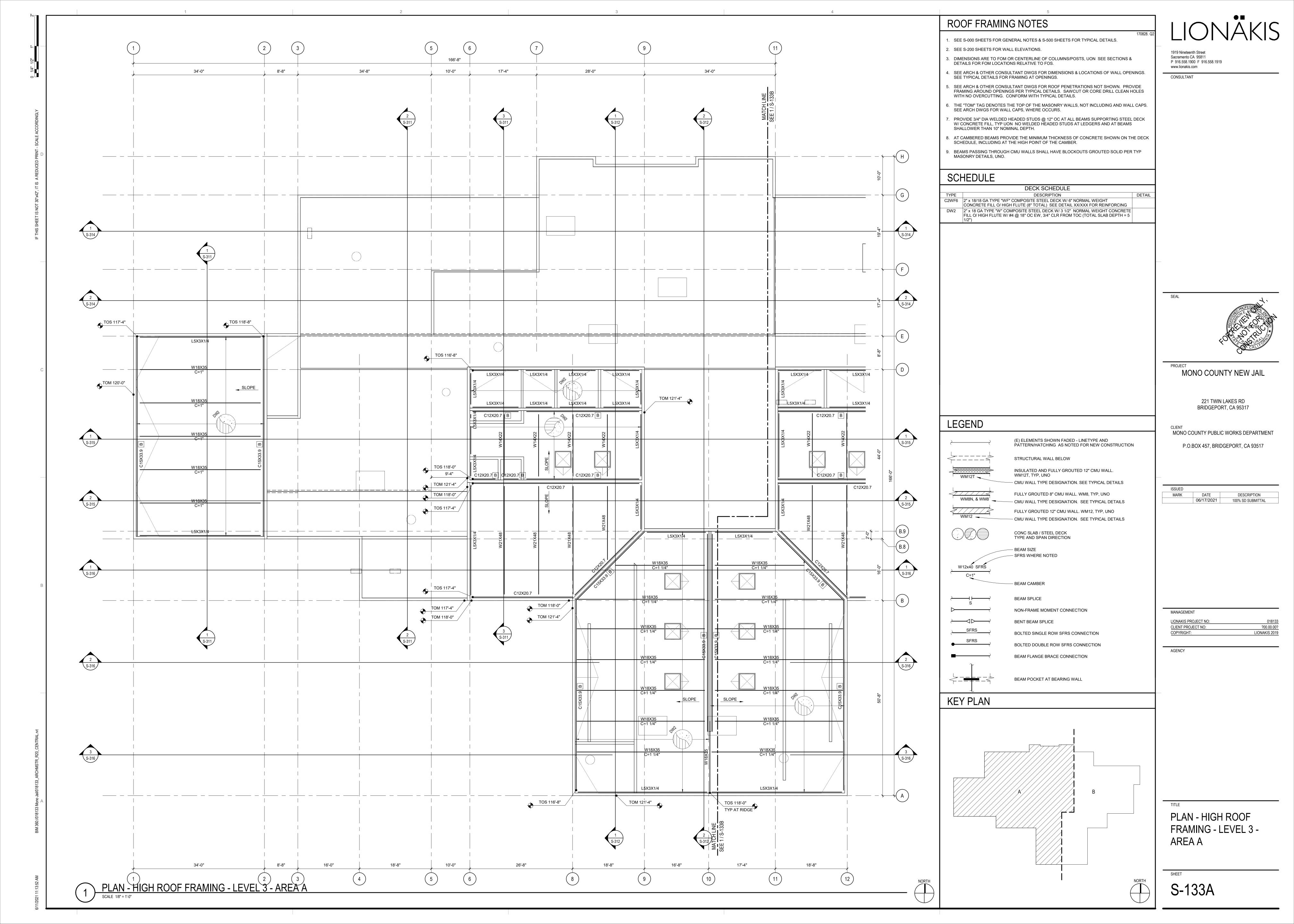
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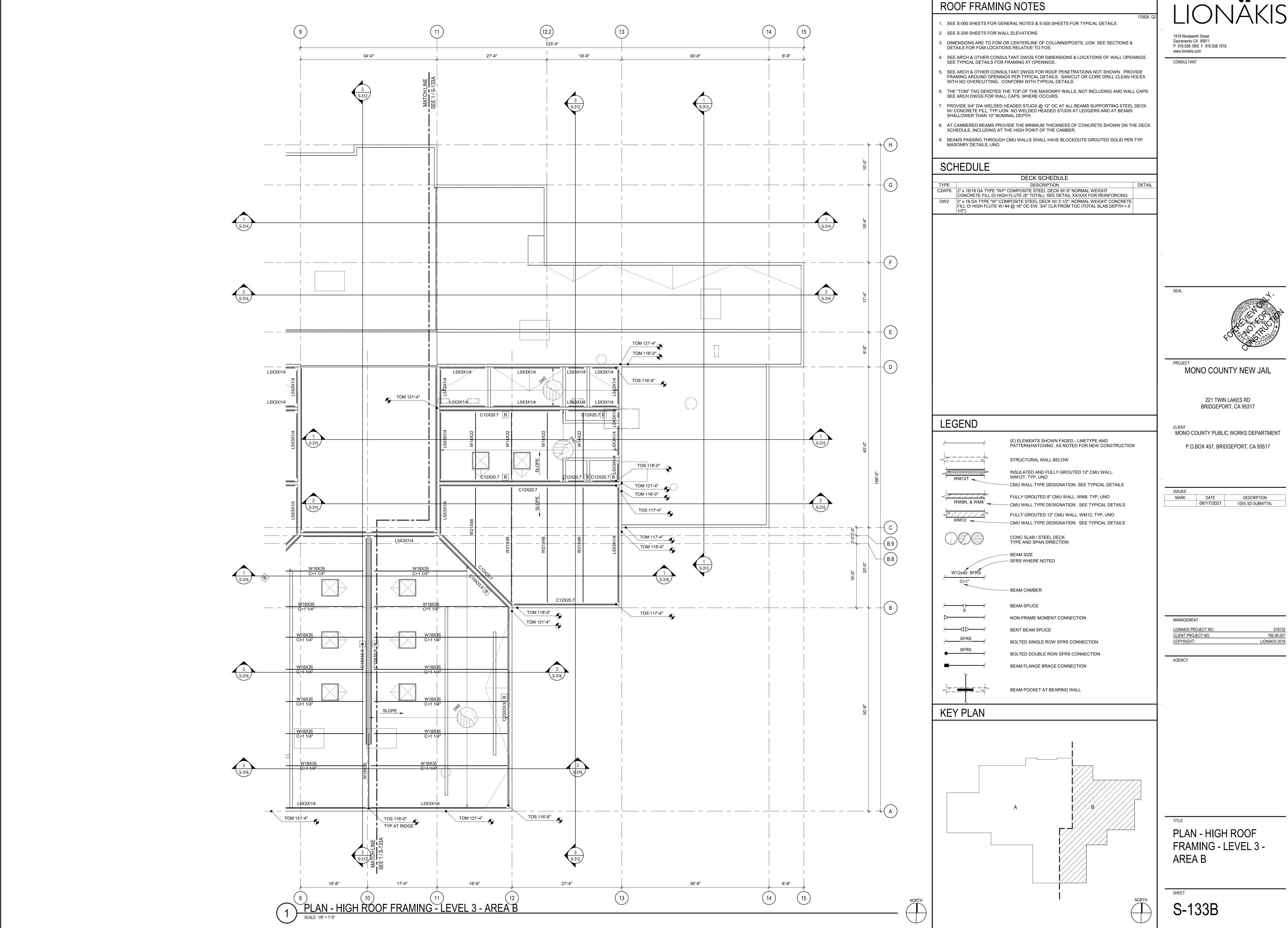
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TITI

PLAN - HIGH ROOF FRAMING - LEVEL 3 -OVERALL

SHEET





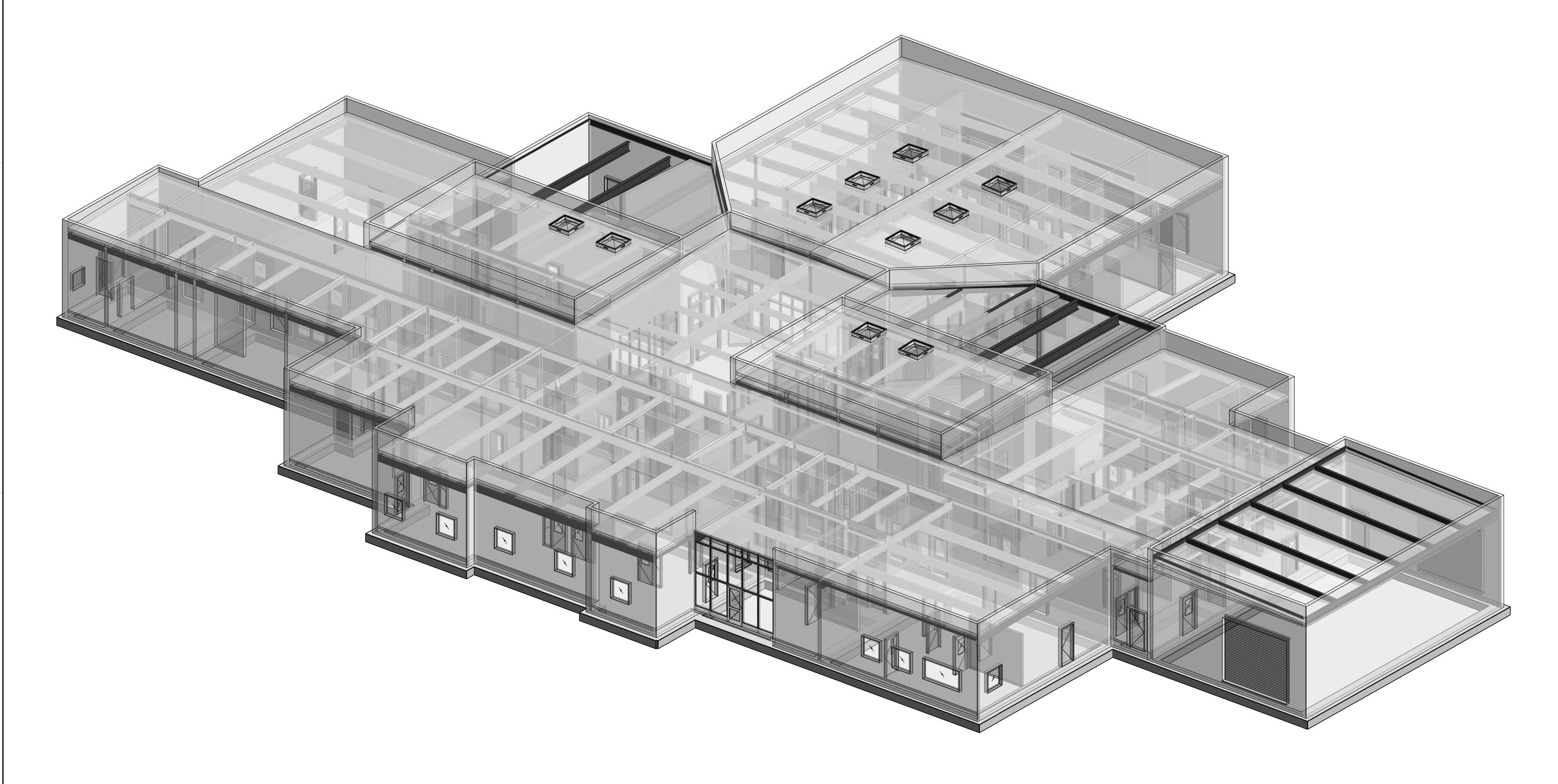
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1 STR -3D FROM NORTHWEST
SCALE

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MANAGEMENT

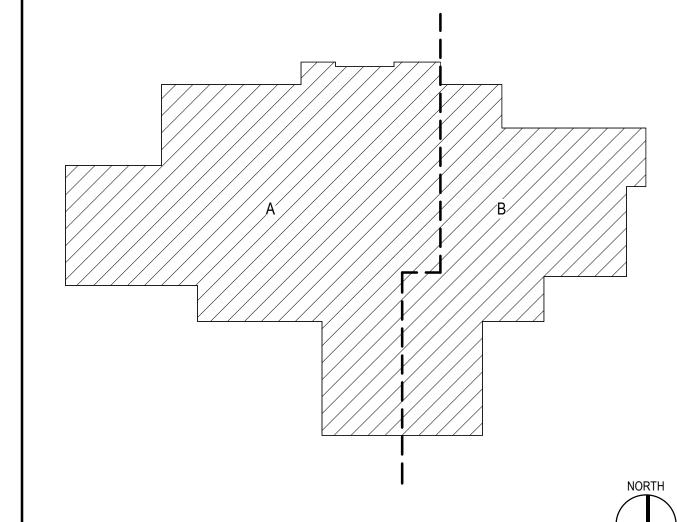
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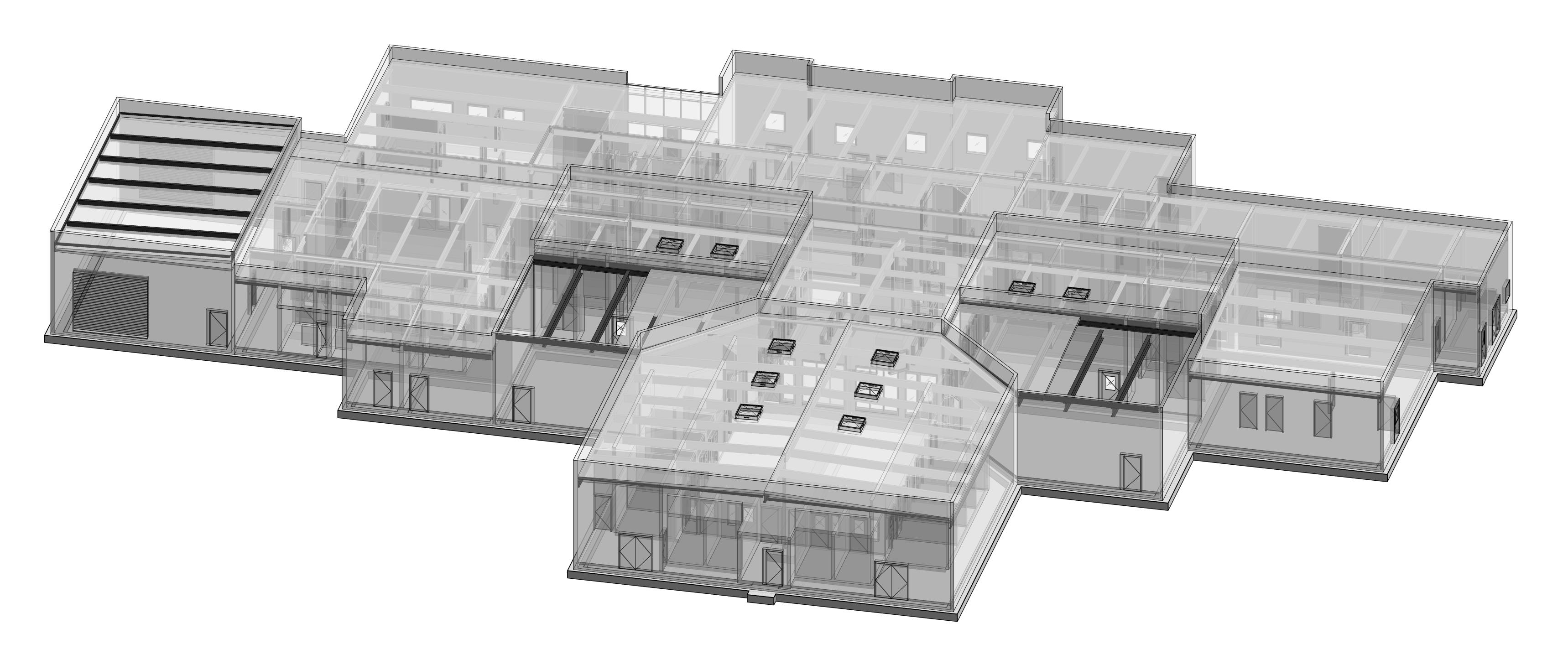
KEY PLAN



3D VIEWS

1 STR -3D FROM SOUTHEAST
SCALE

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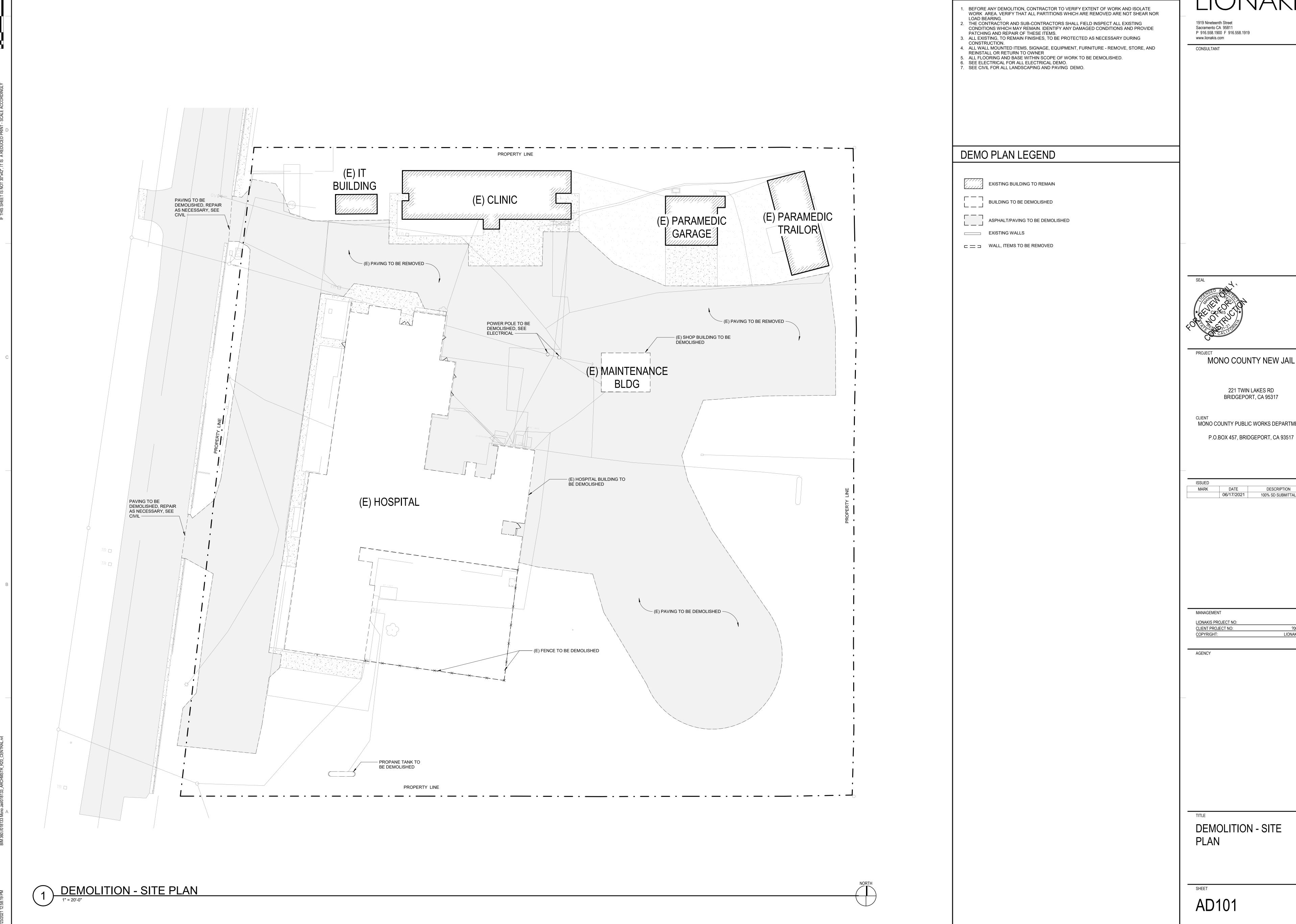
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AGENCY

NORTH

KEY PLAN

3D VIEWS

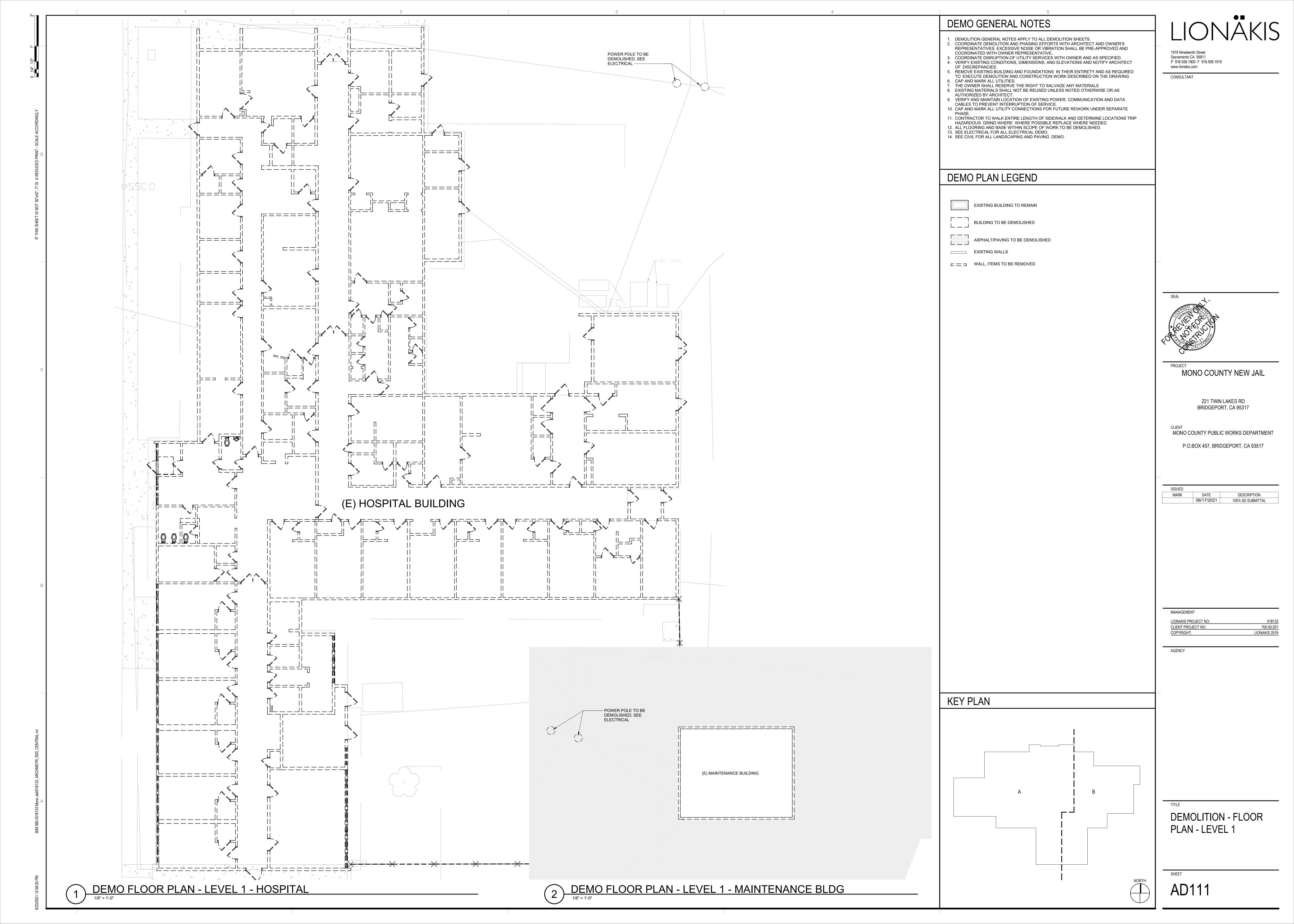


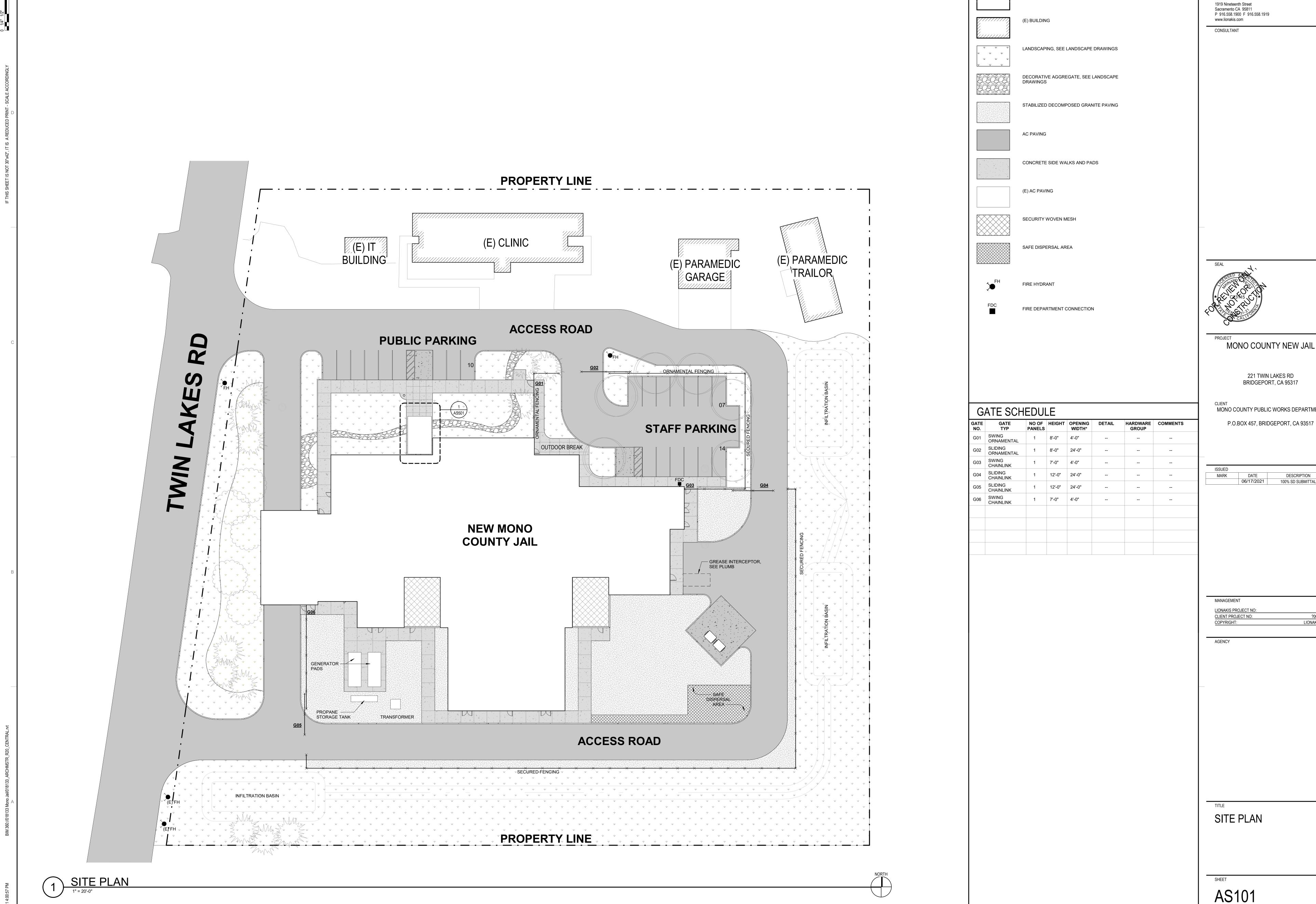
DEMO GENERAL NOTES

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 DATE
 DESCRIPTION

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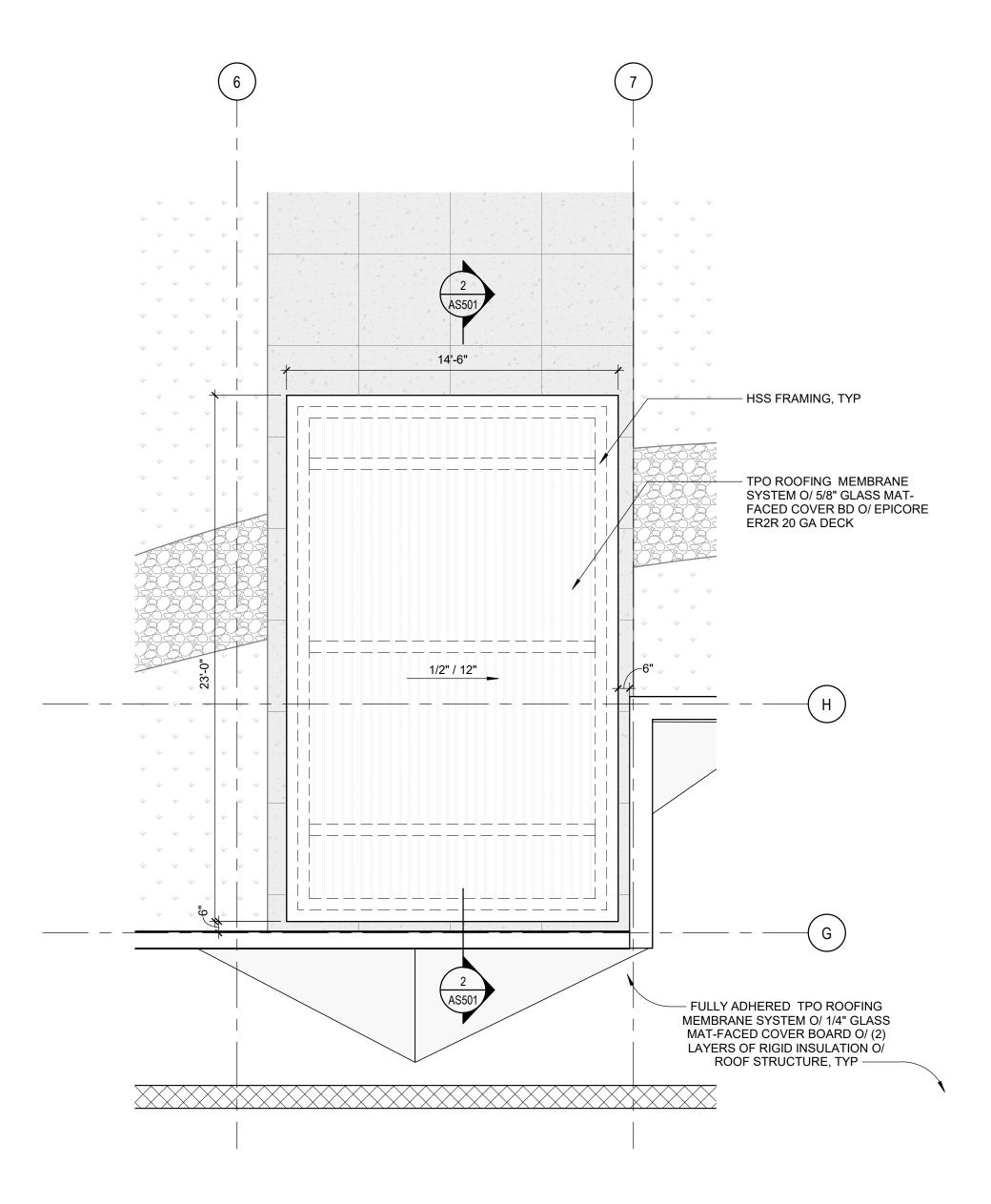
SITE PLAN LEGEND

PROPOSED BUILDING

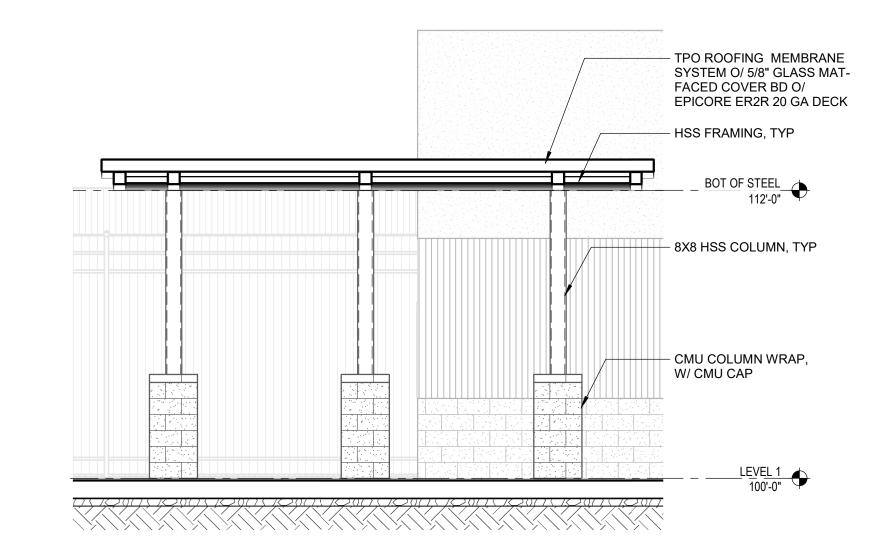
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1) ENLARGED PLAN - ENTRY CANOPY



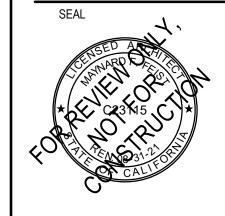
2 SITE - ENTRY CANOPY

1/4" = 1'-0"



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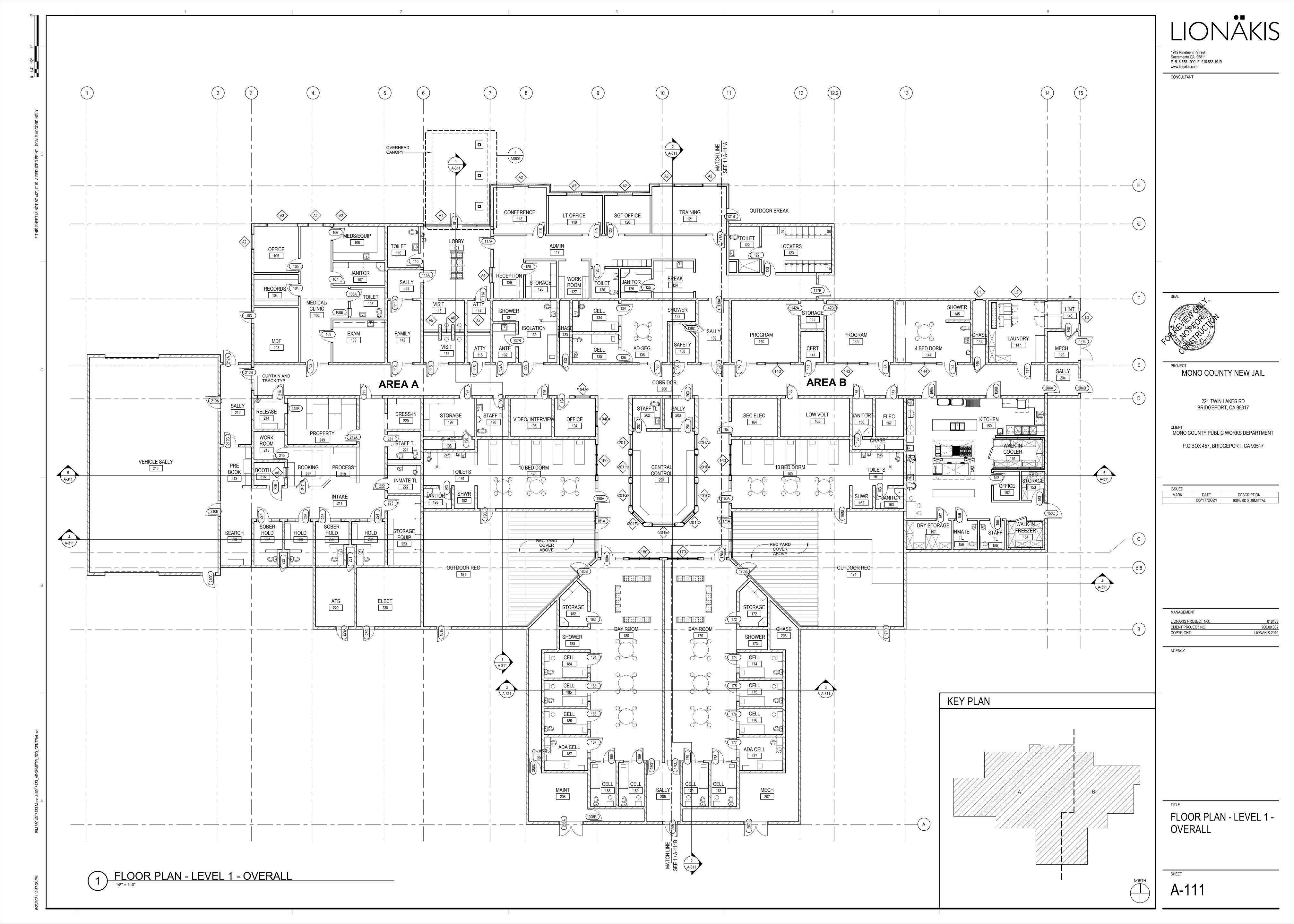
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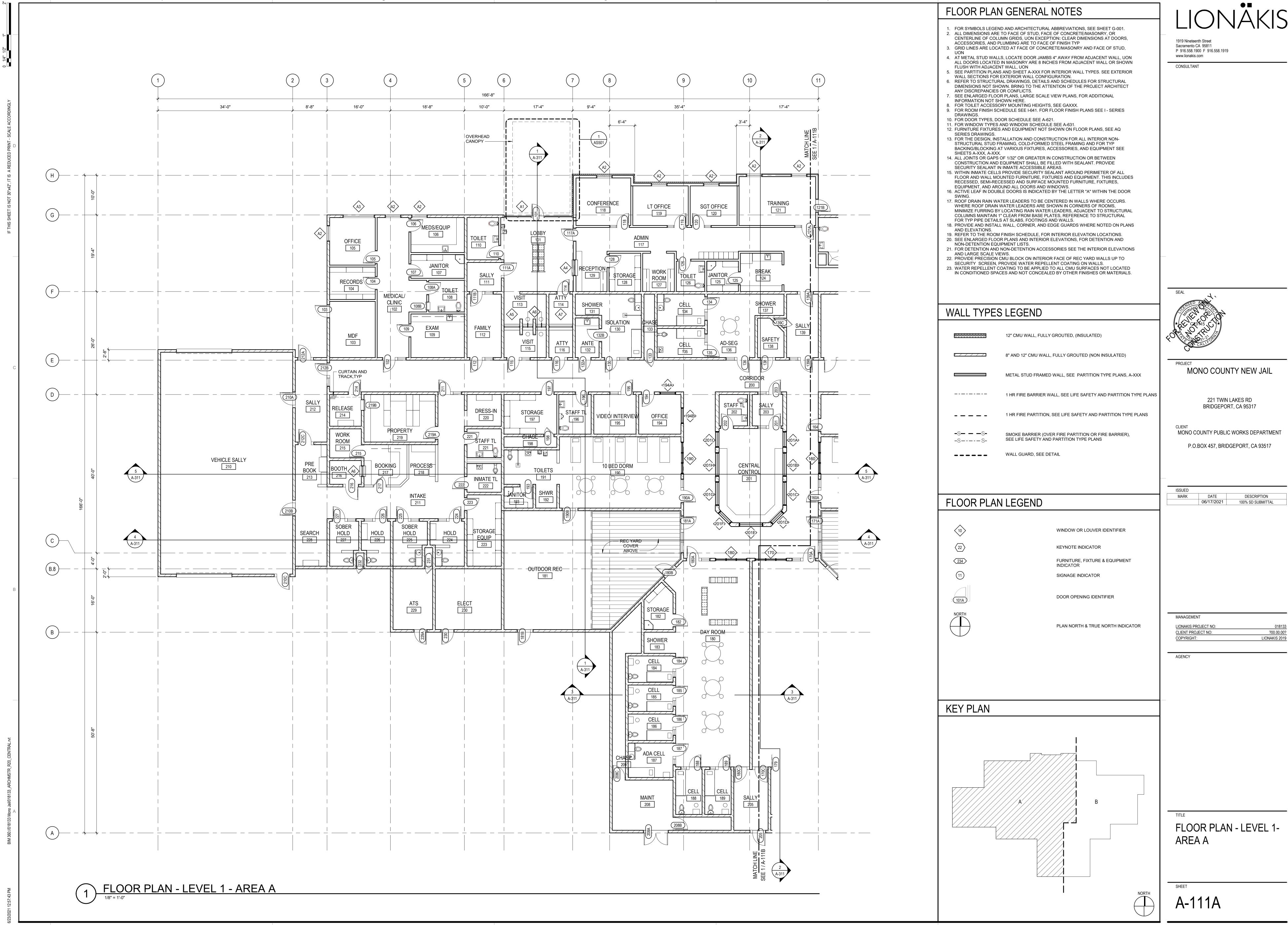
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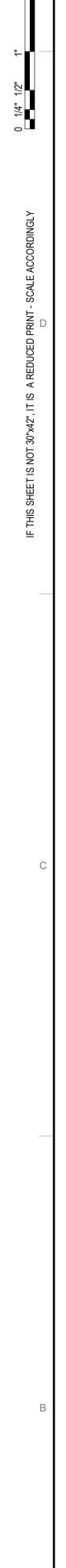
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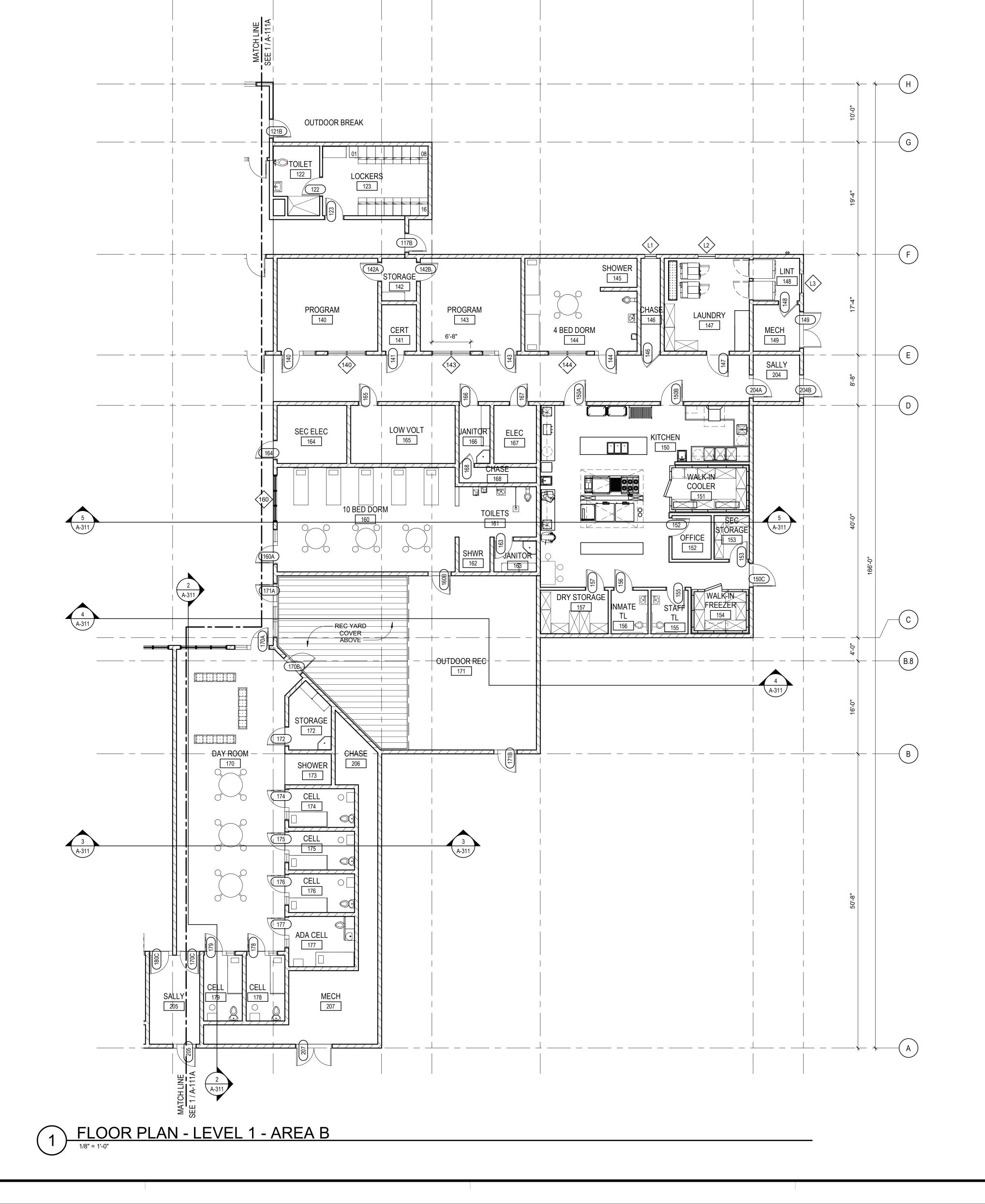
SITE DETAILS

AS501









108'-8"

18'-8"

8'-8"

36'-8"

17'-4"

18'-8"

8'-8"

FLOOR PLAN GENERAL NOTES

- 1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001. 2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP 3. GRID LINES ARE LOCATED AT FACE OF CONCRETE/MASONRY AND FACE OF STUD,
- 4. AT METAL STUD WALLS, LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL, UON ALL DOORS LOCATED IN MASONRY ARE 8 INCHES FROM ADJACENT WALL OR SHOWN FLUSH WITH ADJACENT WALL, UON
- 5. SEE PARTITION PLANS AND SHEET A-XXX FOR INTERIOR WALL TYPES. SEE EXTERIOR WALL SECTIONS FOR EXTERIOR WALL CONFIGURATION. 6. REFER TO STRUCTURAL DRAWINGS, DETAILS AND SCHEDULES FOR STRUCTURAL DIMENSIONS NOT SHOWN. BRING TO THE ATTENTION OF THE PROJECT ARCHITECT ANY DISCREPANCIES OR CONFLICTS.
- . SEE ENLARGED FLOOR PLANS, LARGE SCALE VIEW PLANS, FOR ADDITIONAL INFORMATION NOT SHOWN HERE. 8. FOR TOILET ACCESSORY MOUNTING HEIGHTS, SEE GAXXX.
- 9. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE I SERIES DRAWINGS.
- 10. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621. 11. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631.

12. FURNITURE FIXTURES AND EQUIPMENT NOT SHOWN ON FLOOR PLANS, SEE AQ

- SERIES DRAWINGS. 13. FOR THE DESIGN, INSTALLATION AND CONSTRUCTION FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING, COLD-FORMED STEEL FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE
- SHEETS A-XXX, A-XXX. 14. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE

EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.

- SECURITY SEALANT IN INMATE ACCESSIBLE AREAS. 15. WITHIN INMATE CELLS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES,
- 16. ACTIVE LEAF IN DOUBLE DOORS IS INDICATED BY THE LETTER "A" WITHIN THE DOOR 17. ROOF DRAIN RAIN WATER LEADERS TO BE CENTERED IN WALLS WHERE OCCURS. WHERE ROOF DRAIN WATER LEADERS ARE SHOWN IN CORNERS OF ROOMS, MINIMIZE FURRING BY LOCATING RAIN WATER LEADERS, ADJACENT TO STRUCTURAL
- COLUMNS MAINTAIN 1" CLEAR FROM BASE PLATES, REFERENCE TO STRUCTURAL FOR TYP PIPE DETAILS AT SLABS, FOOTINGS AND WALLS. 18. PROVIDE AND INSTALL WALL, CORNER, AND EDGE GUARDS WHERE NOTED ON PLANS AND ELEVATIONS.
- 19. REFER TO THE ROOM FINISH SCHEDULE, FOR INTERIOR ELEVATION LOCATIONS. 20. SEE ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS, FOR DETENTION AND
- NON-DETENTION EQUIPMENT LISTS. 21. FOR DETENTION AND NON-DETENTION ACCESSORIES SEE THE INTERIOR ELEVATIONS AND LARGE SCALE VIEWS.
- 22. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN, PROVIDE WATER REPELLENT COATING ON WALLS. 23. WATER REPELLENT COATING TO BE APPLIED TO ALL CMU SURFACES NOT LOCATED IN CONDITIONED SPACES AND NOT CONCEALED BY OTHER FINISHES OR MATERIALS.

WALL TYPES LEGEND

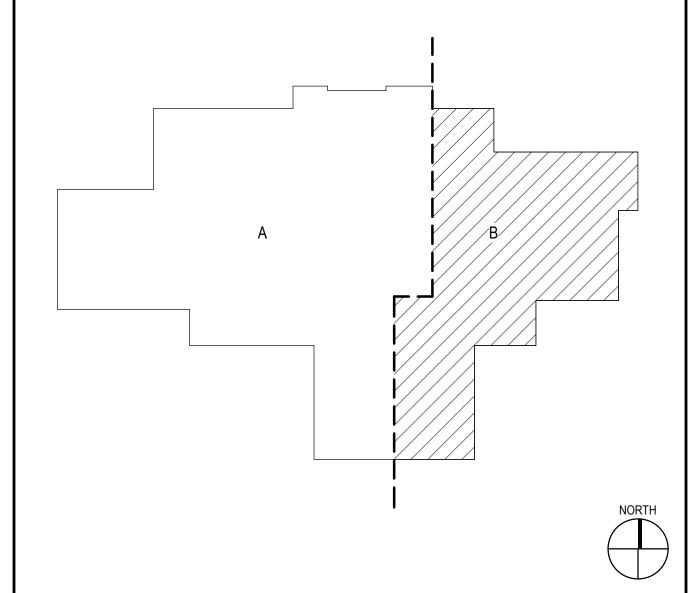
12" CMU WALL, FULLY GROUTED, (INSULATED) 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED) METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS -S----S-

WALL GUARD, SEE DETAIL

FLOOR PLAN LEGEND

WINDOW OR LOUVER IDENTIFIER KEYNOTE INDICATOR FURNITURE, FIXTURE & EQUIPMENT INDICATOR SIGNAGE INDICATOR DOOR OPENING IDENTIFIER (101A) PLAN NORTH & TRUE NORTH INDICATOR

KEY PLAN



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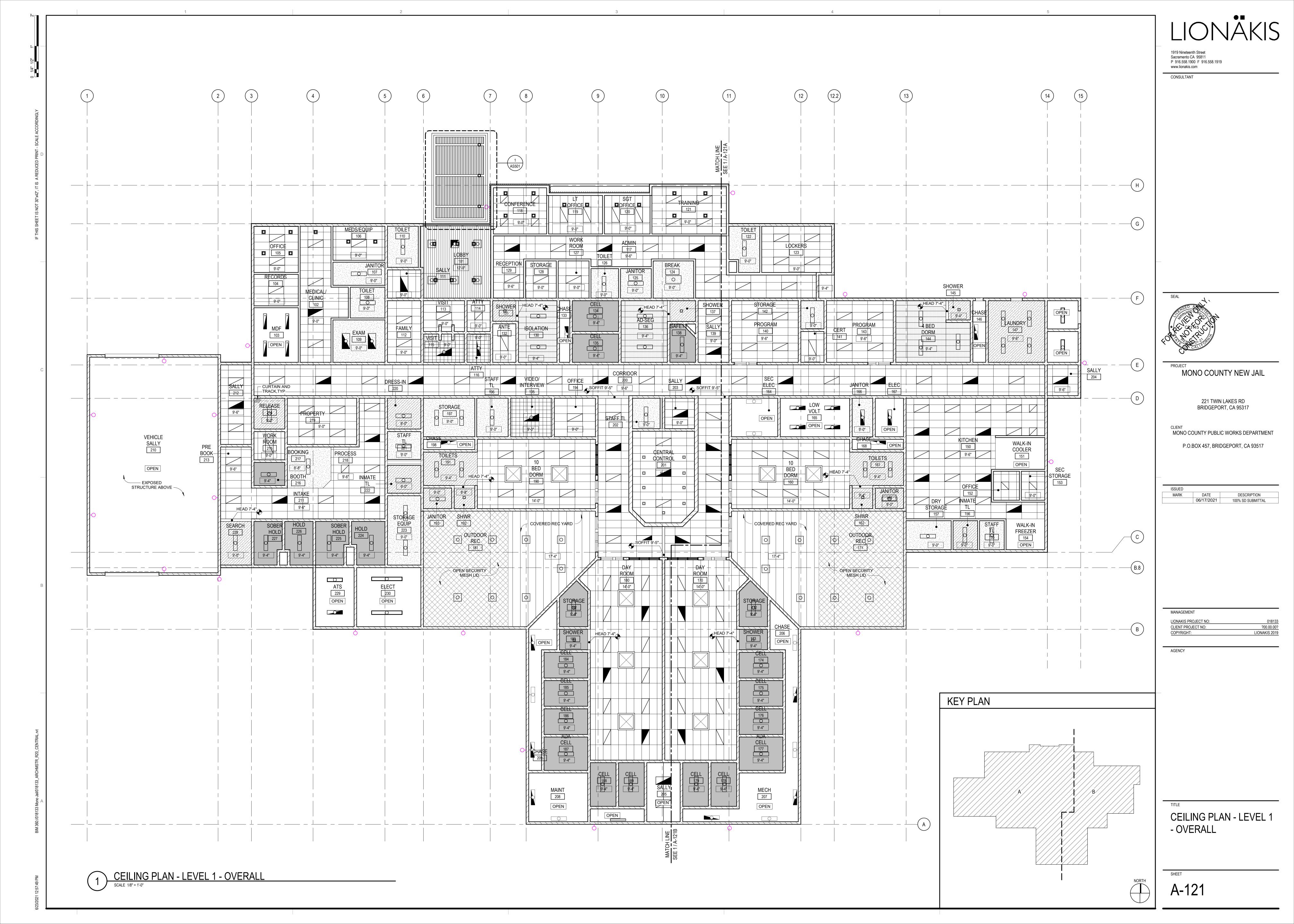
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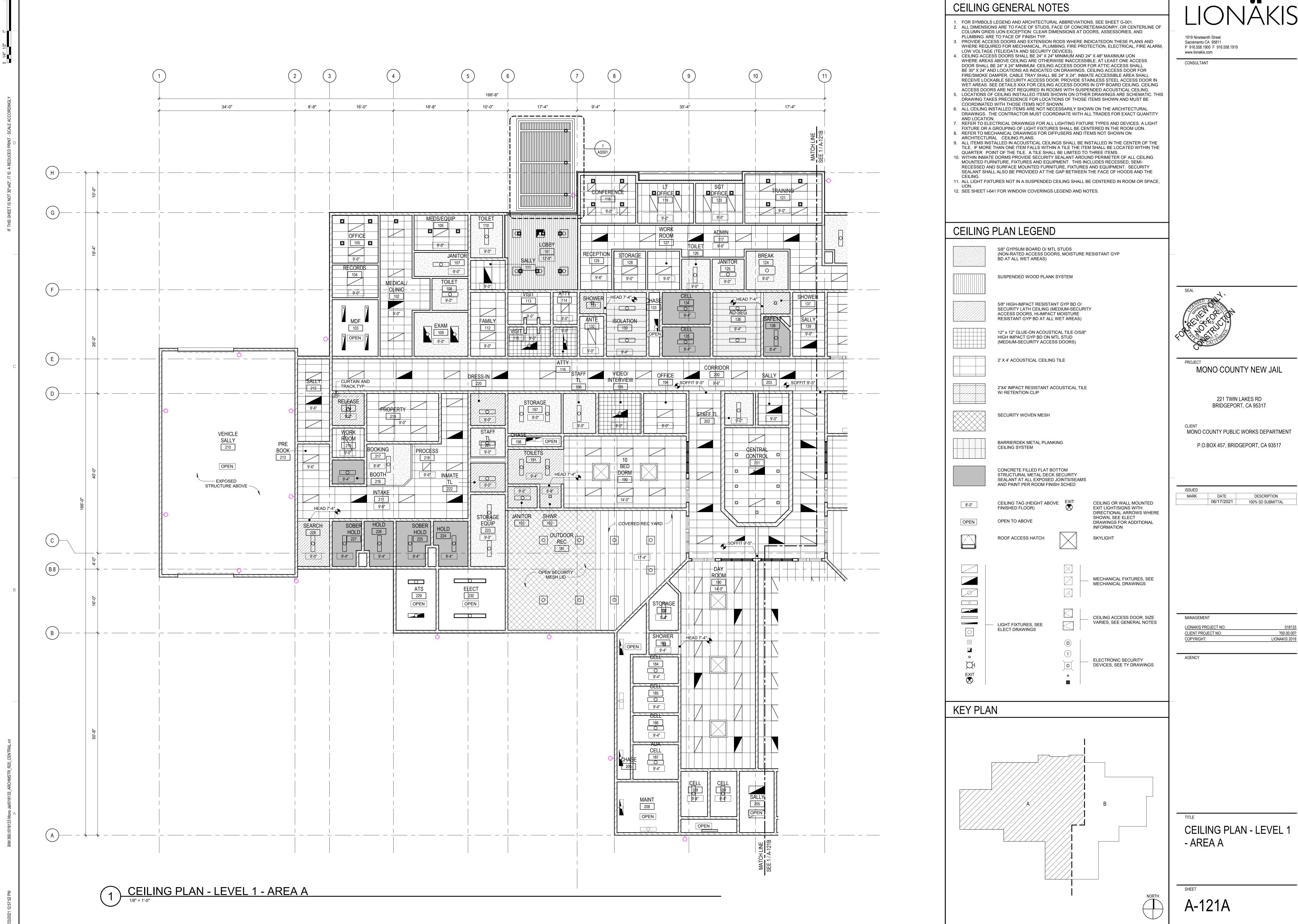
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FLOOR PLAN - LEVEL 1 -AREA B

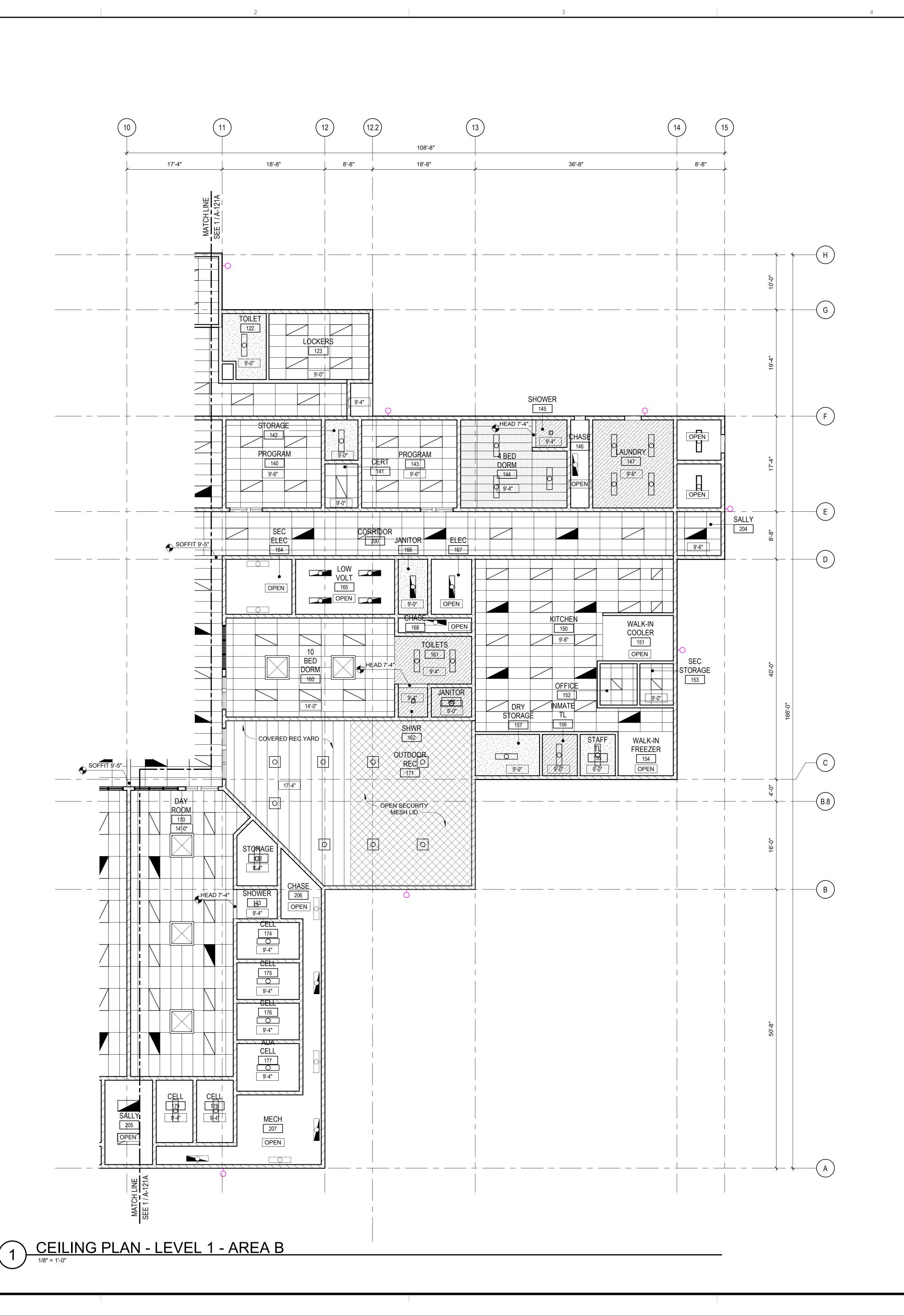
A-111B





MONO COUNTY PUBLIC WORKS DEPARTMENT

100% SD SUBMITTAL

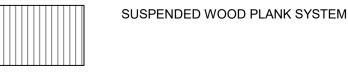


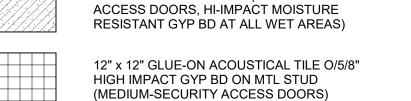
CEILING GENERAL NOTES

- FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
 ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF
- COLUMN GRIDS UON EXCEPTION: CLEAR DIMENSIONS AT DOORS, ASSESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP. PROVIDE ACCESS DOORS AND EXTENSION RODS WHERE INDICATEDON THESE PLANS AND
- WHERE REQUIRED FOR MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, LOW VOLTAGE (TELE/DATA AND SECURITY DEVICES). . CEILING ACCESS DOORS SHALL BE 24" X 24" MINIMUM AND 24" X 48" MAXIMUM UON WHERE AREAS ABOVE CEILING ARE OTHERWISE INACCESSIBLE, AT LEAST ONE ACCESS DOOR SHALL BE 24" X 24" MINIMUM. CEILING ACCESS DOOR FOR ATTIC ACCESS SHALL BE 30" X 24" AND LOCATIONS AS INDICATED ON DRAWINGS. CEILING ACCESS DOOR FOR FIRE/SMOKE DAMPER. CABLE TRAY SHALL BE 24" X 24". INMATE ACCESSIBLE AREA SHALL RECEIVE LOCKABLE SECURITY ACCESS DOOR. PROVIDE STAINLESS STEEL ACCESS DOOR IN WET AREAS. SEE DETAILS XXX FOR CEILING ACCESS DOORS IN GYP BOARD CEILING. CEILING ACCESS DOORS ARE NOT REQUIRED IN ROOMS WITH SUSPENDED ACOUSTICAL CEILING.
- LOCATIONS OF CEILING INSTALLED ITEMS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC. THIS DRAWING TAKES PRECEDENCE FOR LOCATIONS OF THOSE ITEMS SHOWN AND MUST BE COORDINATED WITH THOSE ITEMS NOT SHOWN. 6. ALL CEILING INSTALLED ITEMS ARE NOT NECESSARILY SHOWN ON THE ARCHITECTURAL
- DRAWINGS. THE CONTRACTOR MUST COORDINATE WITH ALL TRADES FOR EXACT QUANTITY REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURE TYPES AND DEVICES. A LIGHT FIXTURE OR A GROUPING OF LIGHT FIXTURES SHALL BE CENTERED IN THE ROOM UON. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND ITEMS NOT SHOWN ON
- ARCHITECTURAL CEILING PLANS. ALL ITEMS INSTALLED IN ACOUSTICAL CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILE. IF MORE THAN ONE ITEM FALLS WITHIN A TILE THE ITEM SHALL BE LOCATED WITHIN THE
- QUARTER POINT OF THE TILE. A TILE SHALL BE LIMITED TO THREE ITEMS. 10. WITHIN INMATE DORMS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL CEILING MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. SECURITY SEALANT SHALL ALSO BE PROVIDED AT THE GAP BETWEEN THE FACE OF HOODS AND THE
- 11. ALL LIGHT FIXTURES NOT IN A SUSPENDED CEILING SHALL BE CENTERED IN ROOM OR SPACE, 12. SEE SHEET I-641 FOR WINDOW COVERINGS LEGEND AND NOTES.

CEILING PLAN LEGEND

5/8" GYPSUM BOARD O/ MTL STUDS (NON-RATED ACCESS DOORS, MOISTURE RESISTANT GYP BD AT ALL WET AREAS)





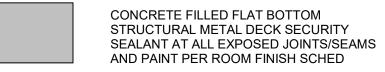
5/8" HIGH-IMPACT RESISTANT GYP BD O/ SECURITY LATH CEILING (MEDIUM-SECURITY

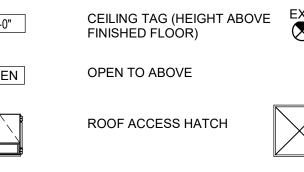




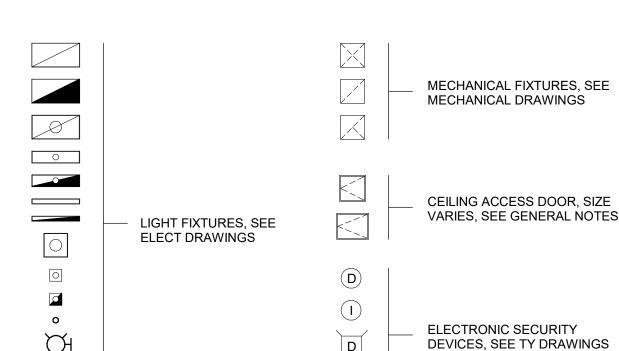
SECURITY WOVEN MESH







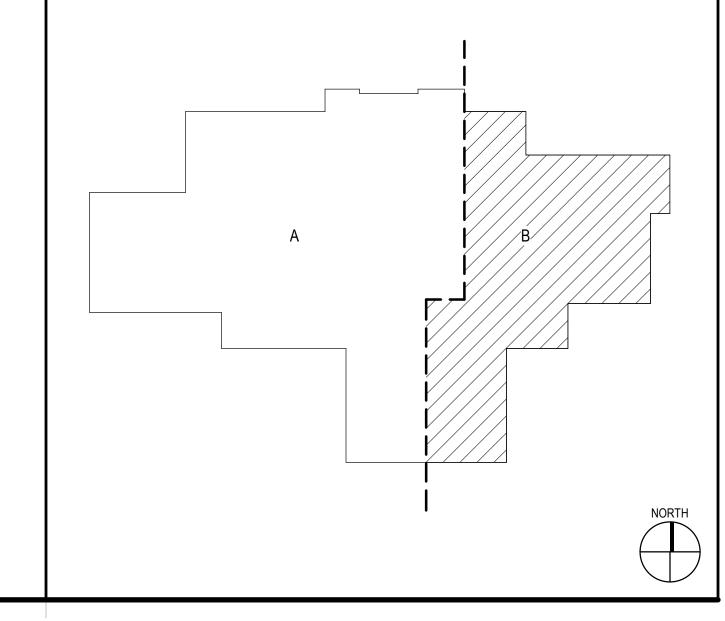
CEILING TAG (HEIGHT ABOVE FINISHED FLOOR) CEILING OR WALL MOUNTED EXIT LIGHT/SIGNS WITH DIRECTIONAL ARROWS WHERE SHOWN, SEE ELECT DRAWINGS FOR ADDITIONAL INFORMATION SKYLIGHT



CEILING ACCESS DOOR, SIZE MANAGEMENT VARIES, SEE GENERAL NOTES LIONAKIS PROJECT NO CLIENT PROJECT NO:

AGENCY

KEY PLAN



CEILING PLAN - LEVEL 1

A-121B

- AREA B

1919 Nineteenth Street

P 916.558.1900 F 916.558.1919

Sacramento CA 95811

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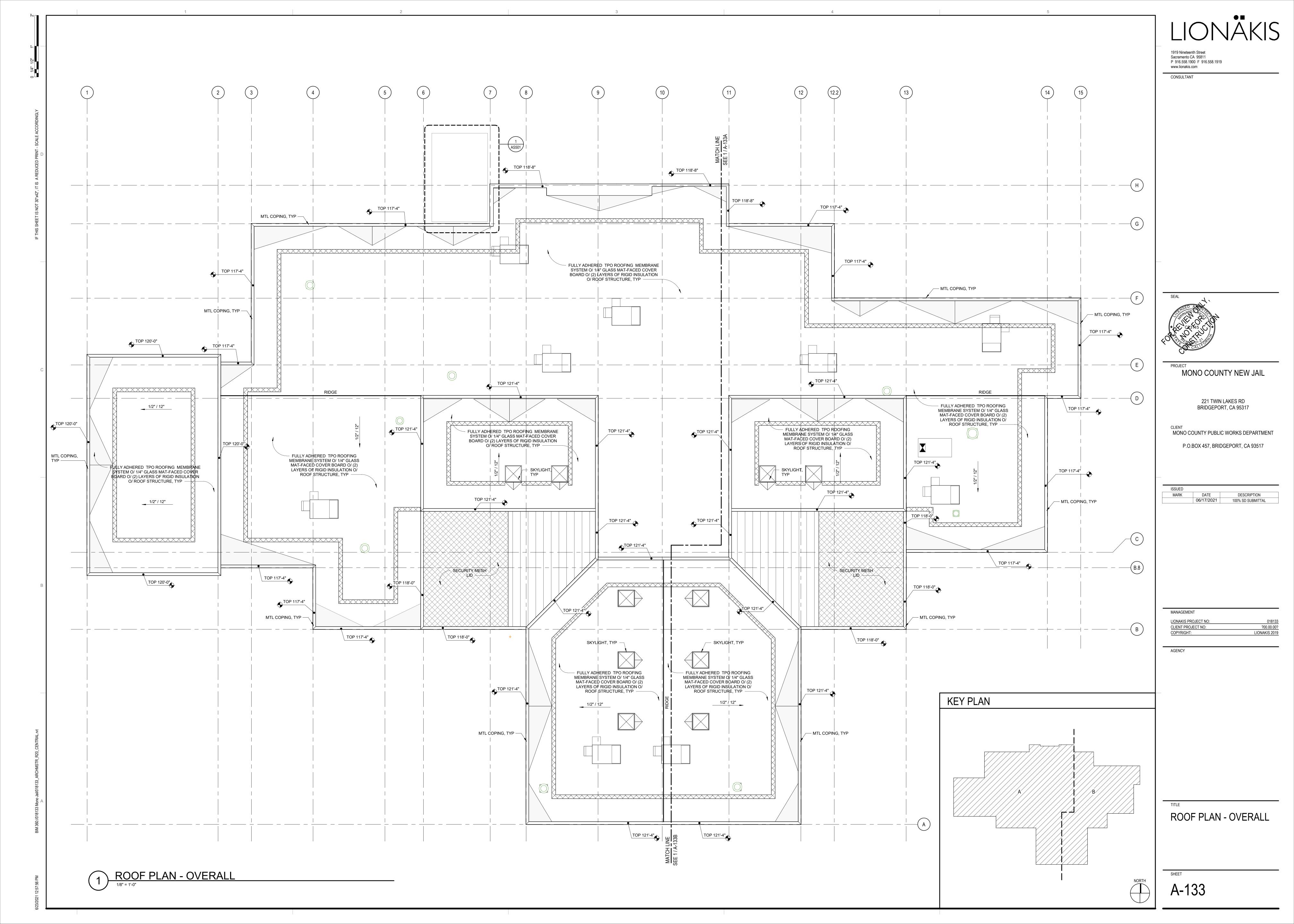
221 TWIN LAKES RD BRIDGEPORT, CA 95317

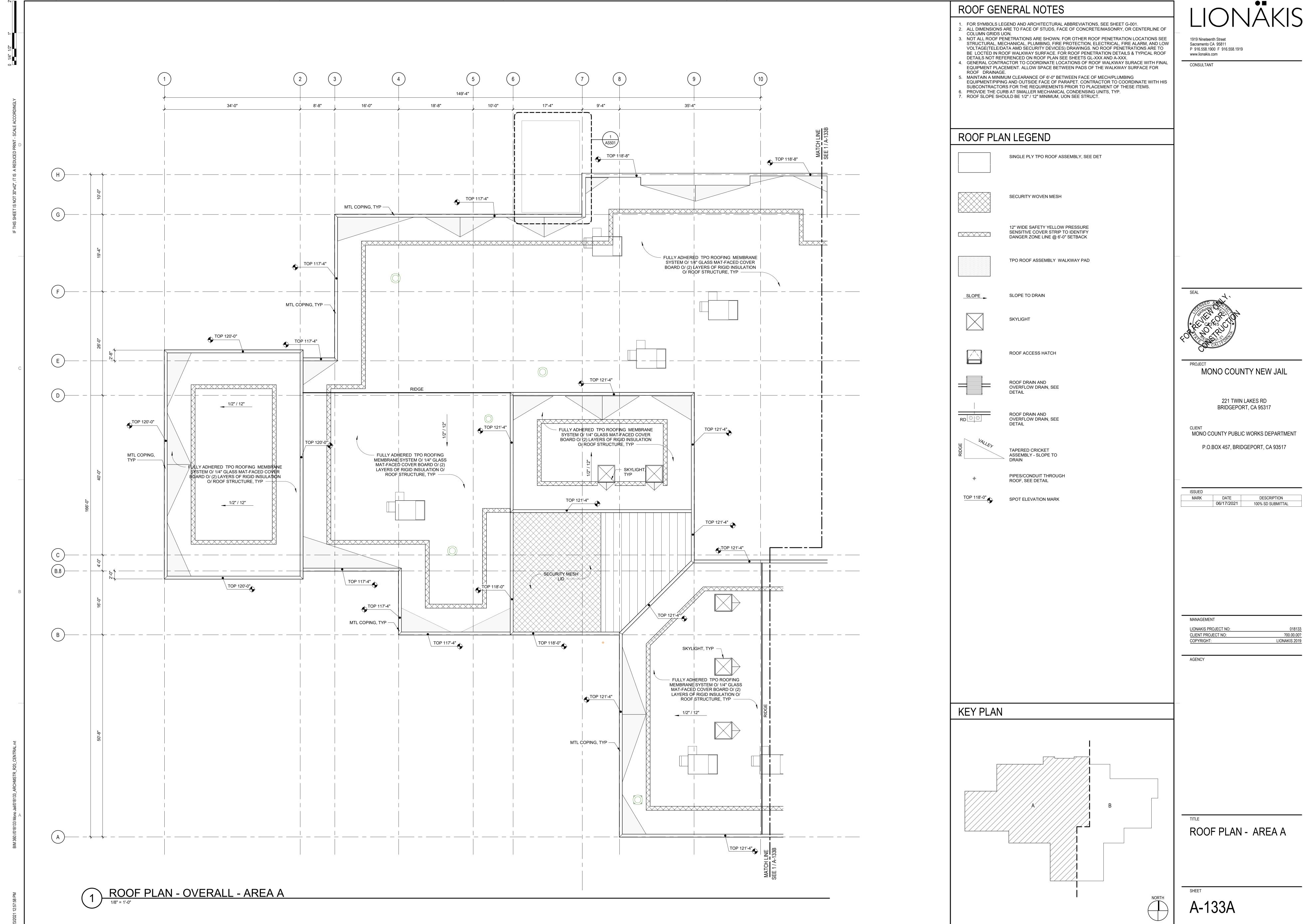
MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

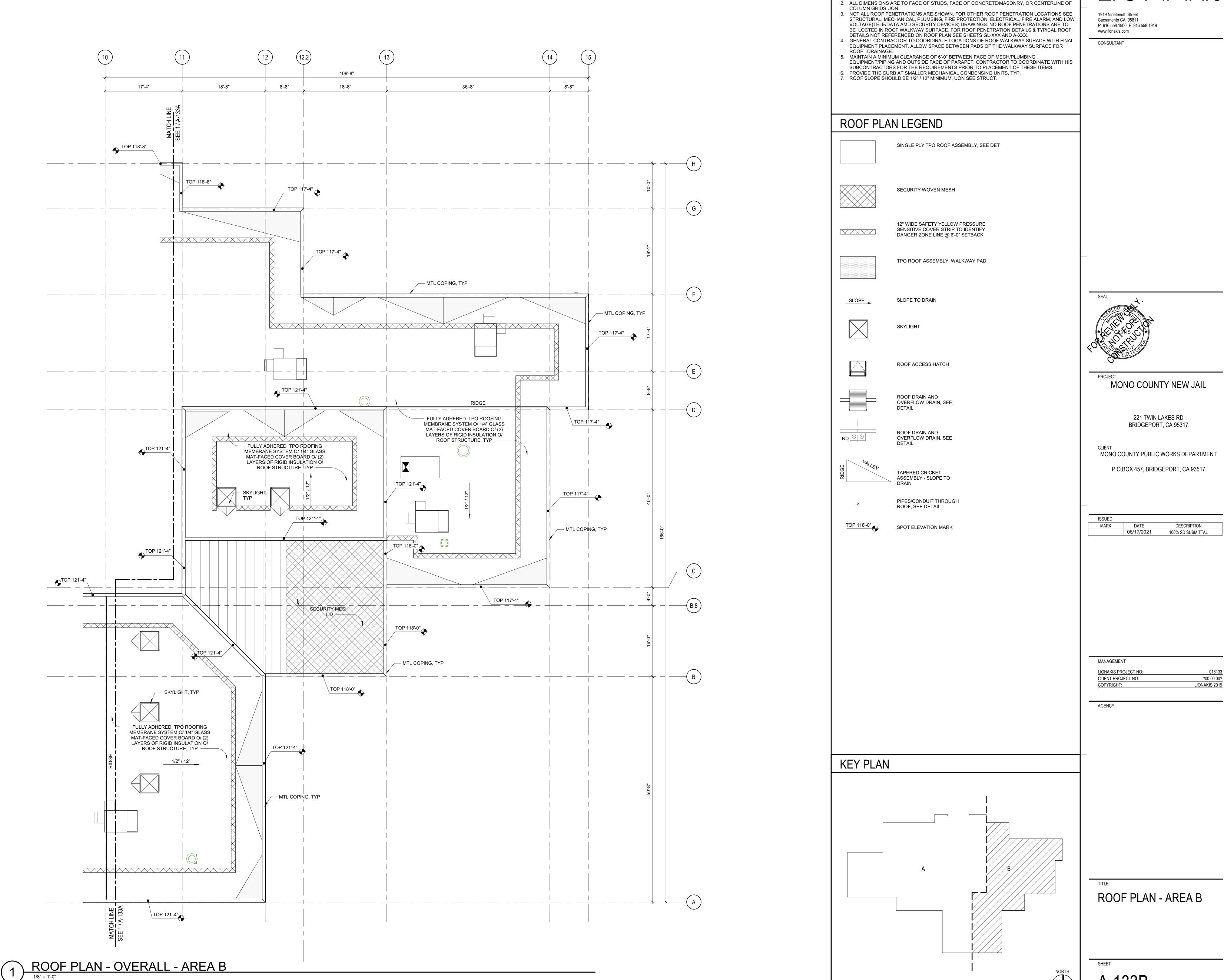
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LIONAKIS 2019







ROOF GENERAL NOTES

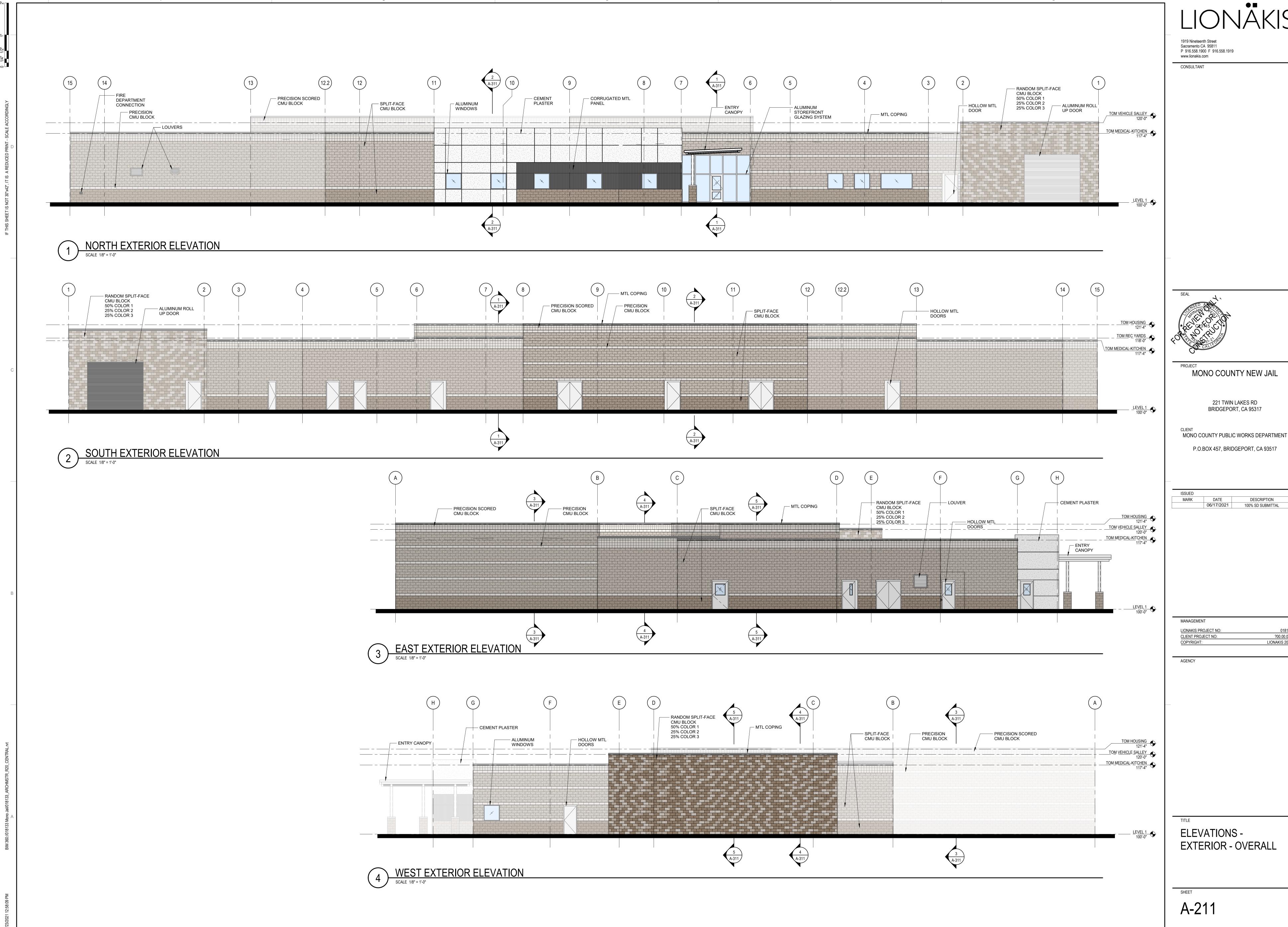
1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.

MONO COUNTY PUBLIC WORKS DEPARTMENT

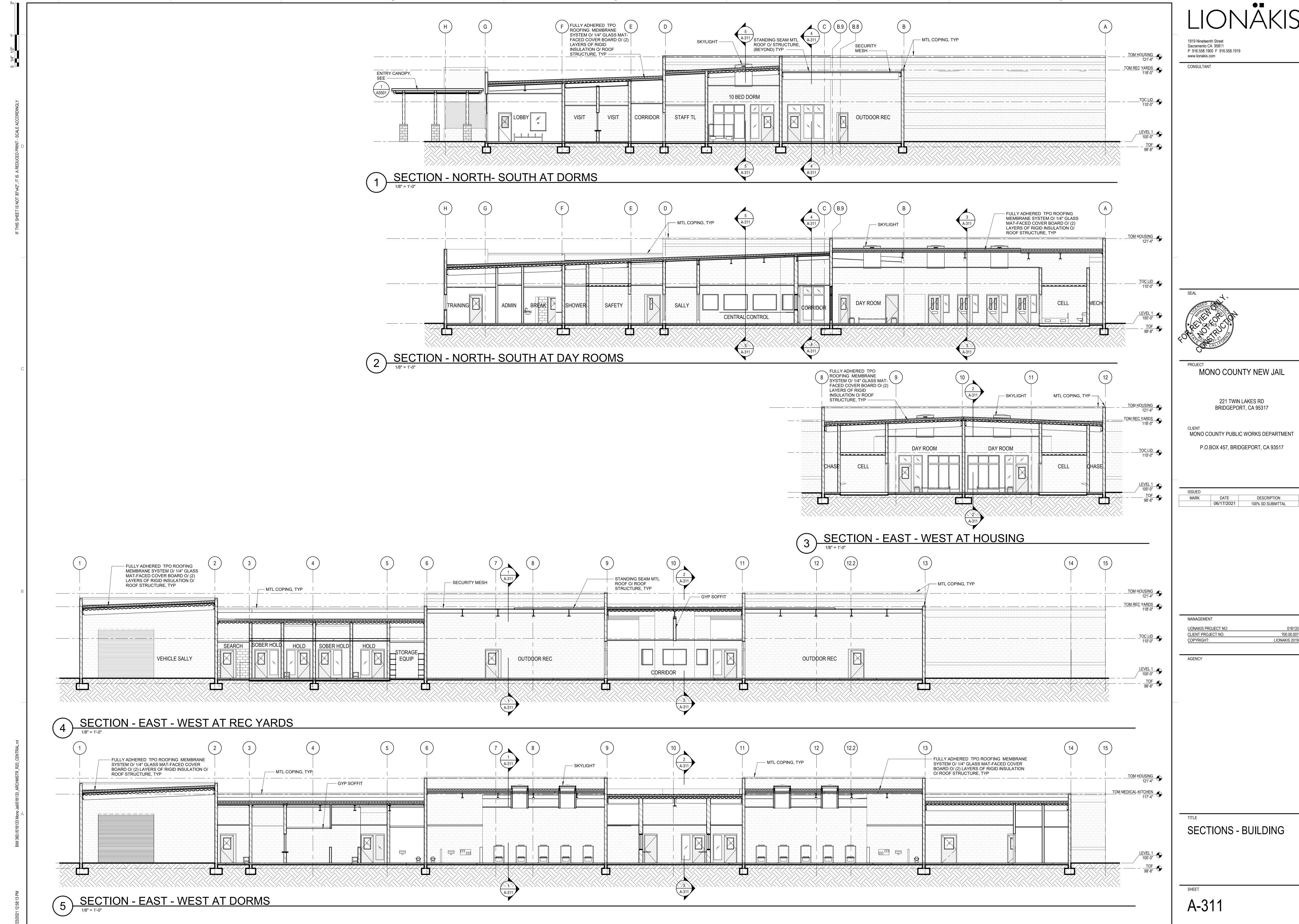
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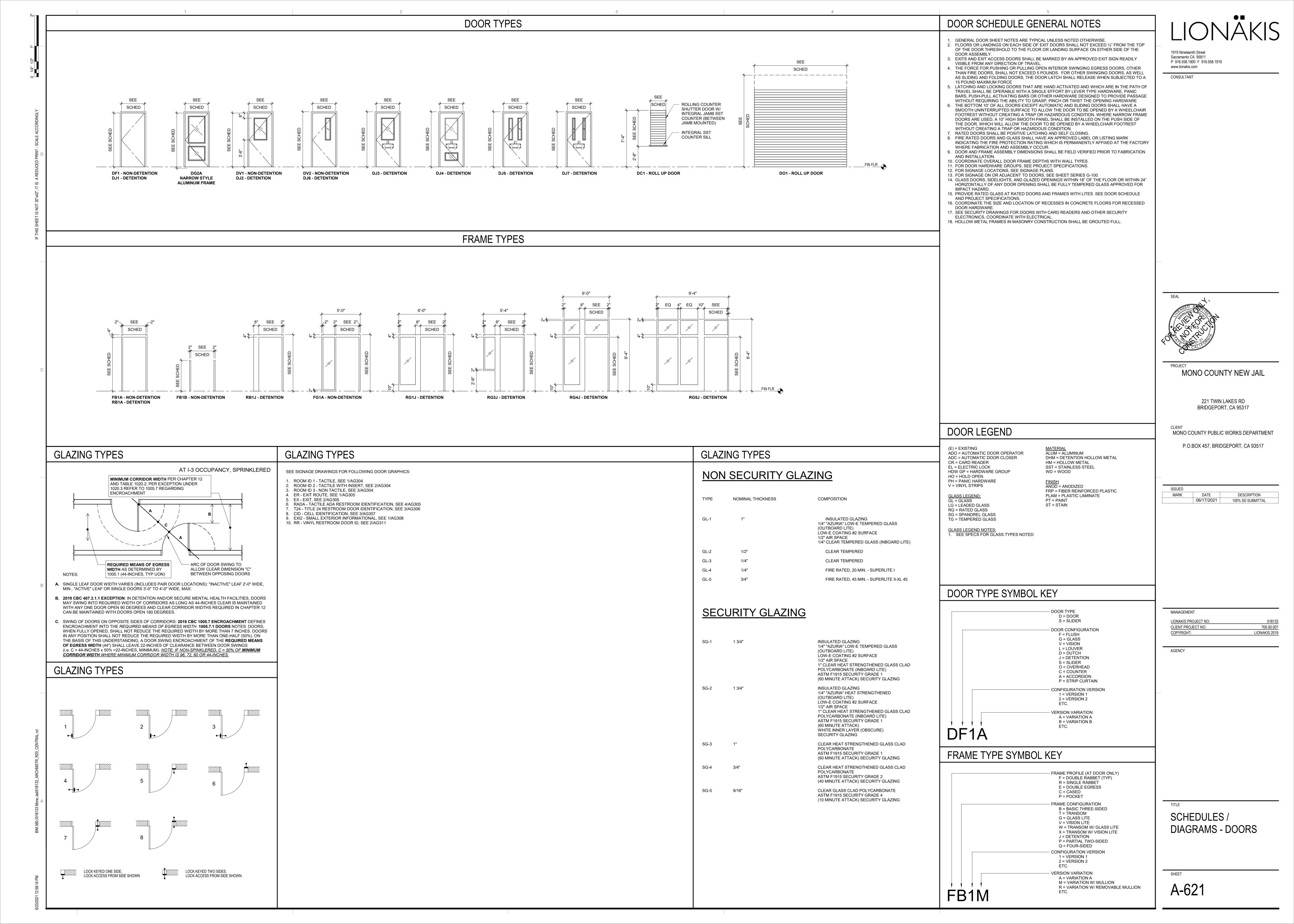
A-133B



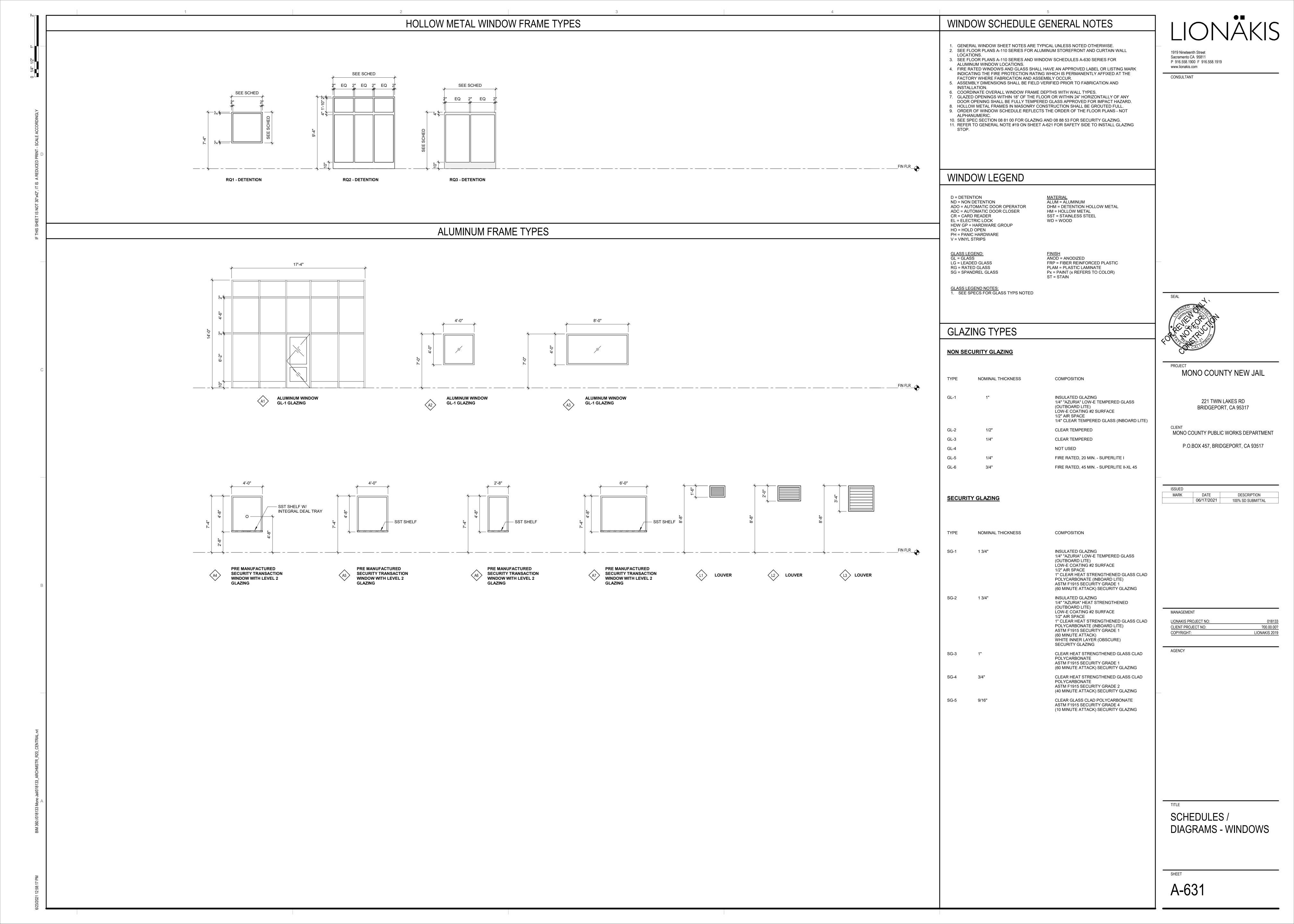
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	1					2		OOR S	CHEDULE	3		4	DOOR SCHEDULES GENERAL NOTES	LIONAKIS
DOOR NO 101 102	LOCATION LOBBY MEDICAL/ CLINIC	FIRE RATING HE (MINS) G	ine) ITY	TYPE W		DOORS AF 2 WIDTH MATL HEIGH ALUM 7'-0" DHM 7'-0"	ANOD GL-1		MATL FINISH GL HEAD ALUM ANOD DHM PT SG-4	JAMB SILL	STC KEYING ACCESS SIGNAGE	COMMENTS	 REFER TO SHEET A-621 FOR DOOR & FRAME TYPES, GENERAL NOTES AND DOOR GRAPHIC LEGEND ELECTRONICALLY CONTROLLED OR OTHER POWERED EXIT DOORS FROM CELLS AND HOLDING ROOMS SHALL BE CAPABLE OF REMOTE RELEASE FROM THE FACILITY CONTROL CENTER 	1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919
103 104 105	MDF RECORDS OFFICE	0 (no 0 (no 0 (no	one) ND one) ND one) ND	DF1 DV2	3'-0" 3'-0" 3'-0"	HM 7'-0" WD 7'-0" WD 7'-0"	PT ST GL-2 ST GL-2	FB1A FB1A FB1A	HM PT HM PT HM PT HM PT				 LEFT AND RIGHT JAMBS FOR ALL DETENTION FRAMES ARE VIEWED FROM THE PULL SIDE OF THE DOOR. SEE DETAIL X ON A-XXX FOR SECURITY GLAZING WITHIN DOOR PANELS. ORDER OF DOOR & FRAME SCHEDULE REFLECTS THE ORDER OF THE FLOOR PLANS - NOT 	www.lionakis.com CONSULTANT
106 107 108A 108B	MEDS/EQUIP JANITOR TOILET TOILET	0 (no 0 (no 0 (no 0 (no	one) ND one) ND one) ND	DF1 DF1 DC1	3'-0" 3'-0" 2'-0"	WD 7'-0" WD 7'-0" SST 4'-0"	ST ST		HM PT HM PT HM PT				ALPHANUMERIC. 5. FOR DOOR AND FRAME PAINT FINISHES SEE FINISH SCHEDULE I-641.	
109 110 111A 111B	EXAM TOILET SALLY SALLY	0 (no 0 (no 0 (no 0 (no	one) ND one) ND one) D	DV2 DF1 DV2		WD 7'-0" WD 7'-0" DHM 7'-0" DHM 7'-0"	ST PT SG-4		HM PT HM PT DHM PT DHM PT SG-4					
112 114 115	FAMILY ATTY VISIT	20 (no 0 (no 20 (no	one) D	DJ2 DV2 DJ2	3'-0"	DHM 7'-0" WD 7'-0" DHM 7'-0"	PT SG-4	RG1J FB1A RG1J	DHM PT SG-4 HM PT DHM PT SG-4					
116 117A 117B	ATTY ADMIN ADMIN CONFERENCE	20 (no 0 (no 0 (no 0 (no	one) ND	DV1 DV1	3'-2" 3'-0" 3'-0" 3'-0"	DHM 7'-0" WD 7'-0" HM 7'-0" WD 7'-0"	ST GL-3 PT GL-1	FB1A	DHM PT HM PT HM PT HM PT GL-3					
119 120 121A	LT OFFICE SGT OFFICE TRAINING	0 (no 0 (no 0 (no	one) ND one) ND one) ND	DV1 DV1 DV1	3'-0" 3'-0" 3'-0"	WD 7'-0" WD 7'-0" WD 7'-0"	ST GL-3 ST GL-3 ST GL-3	FG1A FG1A FG1A	HM PT GL-3 HM PT GL-3 HM PT GL-3				DOOR SCHEDULE TITLES	
121B 122 123 125	TRAINING TOILET LOCKERS JANITOR	0 (no 0 (no 0 (no 0 (no 0 (no 0 (no			3'-0" 3'-0" 3'-0"	HM 7'-0" WD 7'-0" WD 7'-0" WD 7'-0" VD 7'-0"	ST ST ST	FB1A FB1A FR1A	HM PT HM PT HM PT HM PT				SECURITY INDICATES DETENTION STATUS WHERE: "D"=DETENTION & "ND"=NON-DETENTION	
126 128 130	TOILET STORAGE ISOLATION ANTE	0 (no 0 (no 20 (no 20 (no	one) D	Dii	3'-0"	WD 7'-0" WD 7'-0" DHM 7'-0" DHM 7'-0"	ST ST PT SG-4	FB1A FB1A RG1J	HM PT				GL (GLAZING) INDICATES TYPE OF GLAZING TO BE INSTALLED IN DOORS OR FRAMES. REFER TO SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING	
132A 132B 133 134	ANTE ANTE CHASE CELL	0 (no 20 (no 0 (no	one) D	DJ2	3'-0" 2'-4"	DHM 7'-0" HM 7'-0" DHM 7'-0"	PT SG-5 PT PT SG-4	RB1A FB1A RG1J	DHM PT HM PT DHM PT SG-4				HDW GP INDICATES HARDWARE GROUP TO BE USED AS NOTED AND CALLED OUT IN SPECIFICATIONS. "H" INDICATES BUILDERS HARDWARE SECTION 08710 & "DH" INDICATES DETENTION HARDWARE SECTION 11192.	
135 136 138 139A	CELL AD-SEG SAFETY SALLY	0 (no 20 (no 45 (no 0 (no	one) D	DJ3 DJ2 DJ7 DJ6	3'-0" 3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4 PT SG-4	RG1J	DHM PT SG-4 DHM PT SG-4 DHM PT DHM PT				KEYING ACCESS INDICATES LOCATION OF HARDWARE KEYING OF LOCK & KEYED SIDE OF DOOR OR FRAME. SEE KEYING ACCESS LOCATION LEGEND.	
139B 139C 140	SALLY SALLY PROGRAM	20 (no 45 (no 20 (no	one) D	DJ2 DJ1 DJ2	3'-0" 2'-0" 3'-0"	DHM 7'-0" HM 7'-0" DHM 7'-0"	PT SG-4 PT	RG1J FB1A RG4J	DHM PT SG-4 HM PT DHM PT SG-4				SIGNAGE INDICATES APPLIED GRAPHICS ON DOOR AS LISTED IN COLUMN. SEE TYPICAL DOOR GRAPHIC LAYOUT ON SHEET A-621.	
141 142A 142B 143	CERT STORAGE STORAGE PROGRAM	20 (no 0 (no 0 (no 20 (no	one) ND	DF1	3'-0" 3'-0" 3'-0"	DHM 7'-0" HM 7'-0" HM 7'-0" DHM 7'-0"	PT PT	FB1A	DHM PT HM PT HM PT DHM PT SG-4					SEAL
144 146 147	4 BED DORM CHASE LAUNDRY	20 (no 20 (no 45 (no	one) D one) ND one) ND	DJ2 DJ2 DF1 DV1	3'-2" 3'-0" 3'-8"	DHM 7'-0" HM 7'-0" HM 7'-0"	PT SG-4 PT PT GL-5	RB1J FB1A FB1A	DHM PT HM PT HM PT					ELECTION OF THE PARTY OF THE PA
148 149 150A 150B	LINT MECH KITCHEN KITCHEN	0 (no 0 (no 45 (no 45 (no	one) ND	DF1 DV1 DV1	3'-0" DF1 3'-8" 3'-8"	HM 7'-0" 3'-0" HM 7'-0" HM 7'-0" HM 7'-0"	PT	FB1A FB1A FB1A	HM PT HM PT HM PT HM PT				ABBREVIATIONS IN SCHEDULE	TO THE CASINE CALLED
150C 152 153	KITCHEN OFFICE SEC STORAGE STAFF TL	0 (no 0 (no 0 (no	one) D one) ND one) ND	DJ2 DV1	3'-10" 3'-0" 3'-0"	DHM 7'-0" HM 7'-0" HM 7'-0" HM 7'-0"	PT	RB1A FB1A FB1A	DHM PT HM PT HM PT				D = DETENTION ND = NON DETENTION ADO = AUTOMATIC DOOR OPERATOR MATERIAL ALUMINUM DHM = DETENTION HOLLOW METAL	CALLEGE CALLEGE
155 156 157 160A	INMATE TL DRY STORAGE 10 BED DORM	0 (no 0 (no 0 (no 20 (no	one) ND	DF1	3'-0" 3'-0"	HM 7'-0" HM 7'-0" DHM 7'-0"	PT PT PT SG-3	FB1A FB1A	HM PT				ADC = AUTOMATIC DOOR OPERATOR ADC = AUTOMATIC DOOR CLOSER CR = CARD READER EL = ELECTRIC LOCK HDW GP = HARDWARE GROUP HDW GP = HARDWARE GROUP	PROJECT MONO COUNTY NEW JAIL
160B 163 164	10 BED DORM JANITOR SEC ELEC	0 (no 0 (no 20 (no 20 (no	one) D one) D one) ND one) D one) ND	DJ2 DF1 DJ1 DF1	3'-2" 3'-0" 3'-0"	HM 7'-0"	PT SG-3 PT PT	FR1A	DHM PT SG-3 DHM PT SG-3 HM PT DHM PT HM PT				HO = HOLD OPEN PH = PANIC HARDWARE V = VINYL STRIPS	
165 166 167 168	LOW VOLT JANITOR ELEC CHASE	20 (no 20 (no 45 (no 0 (no	one) ND	DF1 DV1 DF1	3'-0" 3'-0" 2'-4"	HM 7'-0" HM 7'-0" HM 7'-0"	PT PT	FB1A FB1A FB1A	HM PT HM PT HM PT				GLASS LEGEND: GL = GLASS GL = GLASS LG = LEADED GLASS FINISH ANOD = ANODIZED FRP = FIBER REINFORCED PLASTIC	221 TWIN LAKES RD BRIDGEPORT, CA 95317
170A 170B 170C 171A	DAY ROOM DAY ROOM DAY ROOM OUTDOOR REC	20 (no 0 (no 0 (no 0 (no	one) D	DJ2 DJ2 DJ1 DJ2		DHM 7'-0"	DT CC 2	DD41	DHM PT SG-3 DHM PT DHM PT DHM PT SG-3 DHM PT HM PT				RG = RATED GLASS PLAM = PLASTIC LAMINATE SG = SPANDREL GLASS PX = PAINT (x REFERS TO COLOR) ST = STAIN	CLIENT MONO COUNTY PUBLIC WORKS DEPARTMENT
171B 172 174	OUTDOOR REC STORAGE CELL	0 (no 0 (no 0 (no	one) D	DF1 DF1 DJ5	3'-2" 3'-0" 3'-0"	DHM 7'-0" HM 7'-0" DHM 7'-0"	PT SG-4						GLASS LEGEND NOTES: 1. SEE SPECS FOR GLASS TYPES NOTED	P.O.BOX 457, BRIDGEPORT, CA 93517
175 176 177 178	CELL CELL ADA CELL CELL	0 (no 0 (no 0 (no 0 (no	one) D	DJ5 DJ5 DJ5	3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4 PT SG-4	RG3.I	DHM PT SG-4 DHM PT SG-4					
179 180A 180B	CELL DAY ROOM DAY ROOM	0 (no 20 (no 0 (no	one) D one) D one) D	DJ5 DJ5 DJ2 DJ2	3'-0" 3'-0" 3'-2"	DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4 PT SG-3 PT SG-3	RG3J RG4J RB1.I	DHM PT SG-4 DHM PT SG-3 DHM PT					ISSUED MARK DATE DESCRIPTION
180C 181A 181B 182	DAY ROOM OUTDOOR REC OUTDOOR REC STORAGE	0 (no 0 (no 0 (no 0 (no	one) D	DF1	3'-2" 3'-2" 3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0" HM 7'-0"	PT SG-3 PT SG-3 PT	FB1A	HM PT					06/17/2021 100% SD SUBMITTAL
184 185 186	CELL CELL ADA CELL	0 (no 0 (no 0 (no 0 (no	one) D		3'-0" 3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4	RG3J RG3J	DHM PT SG-4 DHM PT SG-4 DHM PT SG-4 DHM PT SG-4					
188 189 190A	CELL CELL 10 BED DORM	0 (no 0 (no 20 (no	one) D	DJ5 DJ5 DJ2 DJ2 DF1	3'-0" 3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4 PT SG-4 PT SG-3		DHM PT SG-4 DHM PT SG-4					
190B 193 194 195	10 BED DORM JANITOR OFFICE VIDEO/ INTERVIEW	0 (no 0 (no 20 (no 20 (no	one) ND	DJ2 DF1 DV1 DJ2	3'-2" 3'-0" 3'-0"	DHM 7'-0" HM 7'-0" HM 7'-0" DHM 7'-0"	PT PT SG-3	FB1A	DHM PT SG-3 HM PT HM PT DHM PT SG-3					
196 197 198	STAFF TL STORAGE CHASE	20 (no 20 (no 20 (no	one) ND one) ND one) ND	DF1 DF1 DF1	3'-0" 3'-0" 2'-4"	HM 7'-0" HM 7'-0" HM 7'-0"	PT PT PT	FB1A FB1A FB1A	HM PT HM PT HM PT					
201 202 203 204A	STAFF TL SALLY SALLY	0 (no 0 (no 0 (no 0 (no	one) ND	DJ2 DF1 DJ2 DJ6	3'-0" 3'-2"	DHM 7'-0" DHM 7'-0"	PT PT SG-4 PT SG-4	FB1A RG1J RB1J	DHM PT SG-4 HM PT DHM PT SG-4 DHM PT SG-4					MANAGEMENT
204B 205 207	SALLY SALLY MECH	0 (no 0 (no 0 (no	one) D one) D one) ND	DJ6 DJ1 DF1	3'-2" 3'-0" DF1	DHM 7'-0" DHM 7'-0" 3'-0" HM 7'-0"	PT SG-4 PT PT	RB1J RB1J FB1A	DHM PT SG-4 DHM PT HM PT					LIONAKIS PROJECT NO: 0181 CLIENT PROJECT NO: ?00.00.0 COPYRIGHT: LIONAKIS 20
208A 208B 208C 210A	MAINT MAINT CHASE VEHICLE SALLY	0 (no 0 (no 0 (no 45 (no	one) ND	DF1	3'-0" 3'-0"	HM 7'-0" HM 7'-0"	PT PT	FB1A FB1A	HM PT HM PT DHM PT					AGENCY
210B 210C 211 212A	VEHICLE SALLY VEHICLE SALLY INTAKE SALLY	45 (no 0 (no 20 (no 0 (no	one) D	DJ2 DJ2 DJ1 DJ2 DJ1 DJ2	3'-2" 3'-0" 3'-0"	DHM 7'-0"	PT SG-4 PT PT SG-4 PT PT SG-4 PT SG-4 PT SG-4	RB1J RB1J RG1J	DHM PT DHM PT DHM PT PT					
212B 212C 214	SALLY SALLY RELEASE	0 (no 20 (no 20 (no	one) D one) D	DJ2 DJ2 DJ2 DJ2 DF1	3'-2"	DHM 7'-0"	PT	I RB1A ∣	DHM PT PT DHM PT DHM PT DHM PT DHM PT DHM PT					
215 216 217 219A	WORK ROOM BOOTH BOOKING PROPERTY	0 (no 0 (no 0 (no 0 (no	one) D	DJ2 DF1	3'-2" 3'-0"	HM 7'-0" DHM 7'-0" HM 4'-0"	PT SG-4 PT	RB1J FB1B	HM PT DHM PT HM PT HM PT				KEY PLAN	
219B 221 222	PROPERTY STAFF TL INMATE TL	0 (no 0 (no	ne) ND	DC1 DF1 DF1	2'-8" 3'-0"	SST 4'-0" HM 7'-0" HM 7'-0"	PT GL-2 SST PT PT PT	FB1A FB1A	HM PT HM PT					
223 224 225 226	STORAGE EQUIP HOLD SOBER HOLD HOLD	0 (no 0 (no 45 (no 0 (no	one) D	DJ2 DJ2 DJ2	3'-0" 3'-0"	DHM 7'-0" DHM 7'-0" DHM 7'-0"	PT SG-4 PT SG-4 PT SG-4	RG1J RG1J RG1J	DHM PT SG-4 DHM PT SG-4 DHM PT SG-4					
227 229A 230 231	SOBER HOLD ATS ELECT CHASE	45 (no 0 (no 0 (no 0 (no	one) D one) ND one) ND	DJ2 DF1 DF1	3'-0" 3'-0" 1' 8"	DHM 7'-0" HM 7'-0" HM 7'-0"	PT SG-4 PT PT	RG1J FB1A FB1A	DHM PT SG-4 HM PT HM PT					
232	CHASE	0 (no	ne) ND	DF1	1'-8"	HM 7'-0"	PT	FB1A	HM PT HM PT				A	
														TITLE COLUED III FO /
														SCHEDULES / DIAGRAMS - DOORS
														SHEET
													NORTH	A-622



WINDOW SCHEDULE GENERAL NOTES

- GENERAL WINDOW SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
 SEE FLOOR PLANS A-110 SERIES FOR ALUMINUM STOREFRONT AND CURTAIN WALL LOCATIONS.
- 3. SEE FLOOR PLANS A-110 SERIES AND WINDOW SCHEDULES A-630 SERIES FOR ALUMINUM WINDOW LOCATIONS.
- 4. FIRE RATED WINDOWS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
- FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.

 5. ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
- COORDINATE OVERALL WINDOW FRAME DEPTHS WITH WALL TYPES.
 GLAZED OPENINGS WITHIN 18" OF THE FLOOR OR WITHIN 24" HORIZONTALLY OF ANY DOOR OPENING SHALL BE FILLY TEMPERED CLASS APPROVED FOR IMPACT HAZARD.
- DOOR OPENING SHALL BE FULLY TEMPERED GLASS APPROVED FOR IMPACT HAZARD.

 8. HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION SHALL BE GROUTED FULL.

 9. ORDER OF WINDOW SCHEDULE REFLECTS THE ORDER OF THE FLOOR PLANS NOT
- ALPHANUMERIC.

 10. SEE SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING.

 11. REFER TO GENERAL NOTE #19 ON SHEET A-621 FOR SAFETY SIDE TO INSTALL GLAZING

WINDOW LEGEND

D = DETENTION ND = NON DETENTION ADO = AUTOMATIC DOOR OPERATOR ADC = AUTOMATIC DOOR CLOSER CR = CARD READER EL = ELECTRIC LOCK

CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS

FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
Px = PAINT (x REFERS TO COLOR)
ST = STAIN

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL

HM = HOLLOW METAL

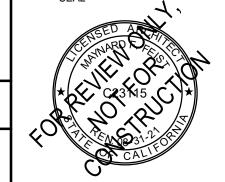
WD = WOOD

SST = STAINLESS STEEL

GLASS LEGEND NOTES:

1. SEE SPECS FOR GLASS TYPS NOTED

WINDOW SCHEDULE TITLES



1919 Nineteenth Street

Sacramento CA 95811

www.lionakis.com

CONSULTANT

P 916.558.1900 F 916.558.1919

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

MANAGEMENT

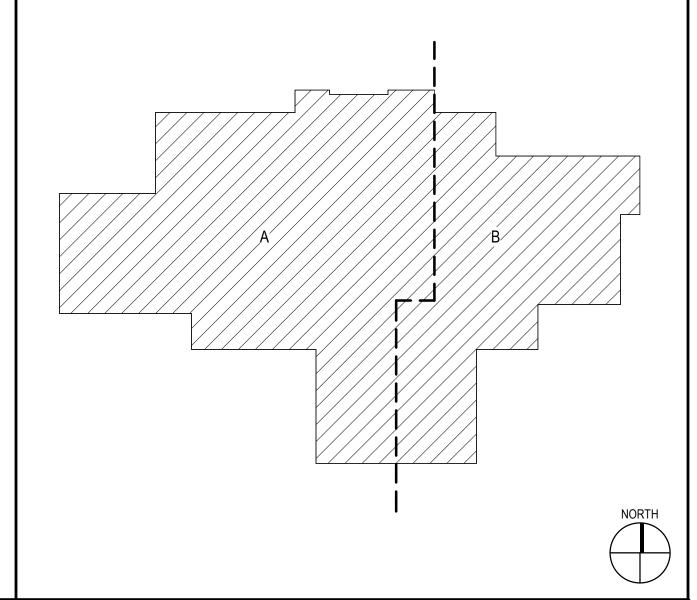
 LIONAKIS PROJECT NO:
 018133

 CLIENT PROJECT NO:
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AGENCY

KEY PLAN



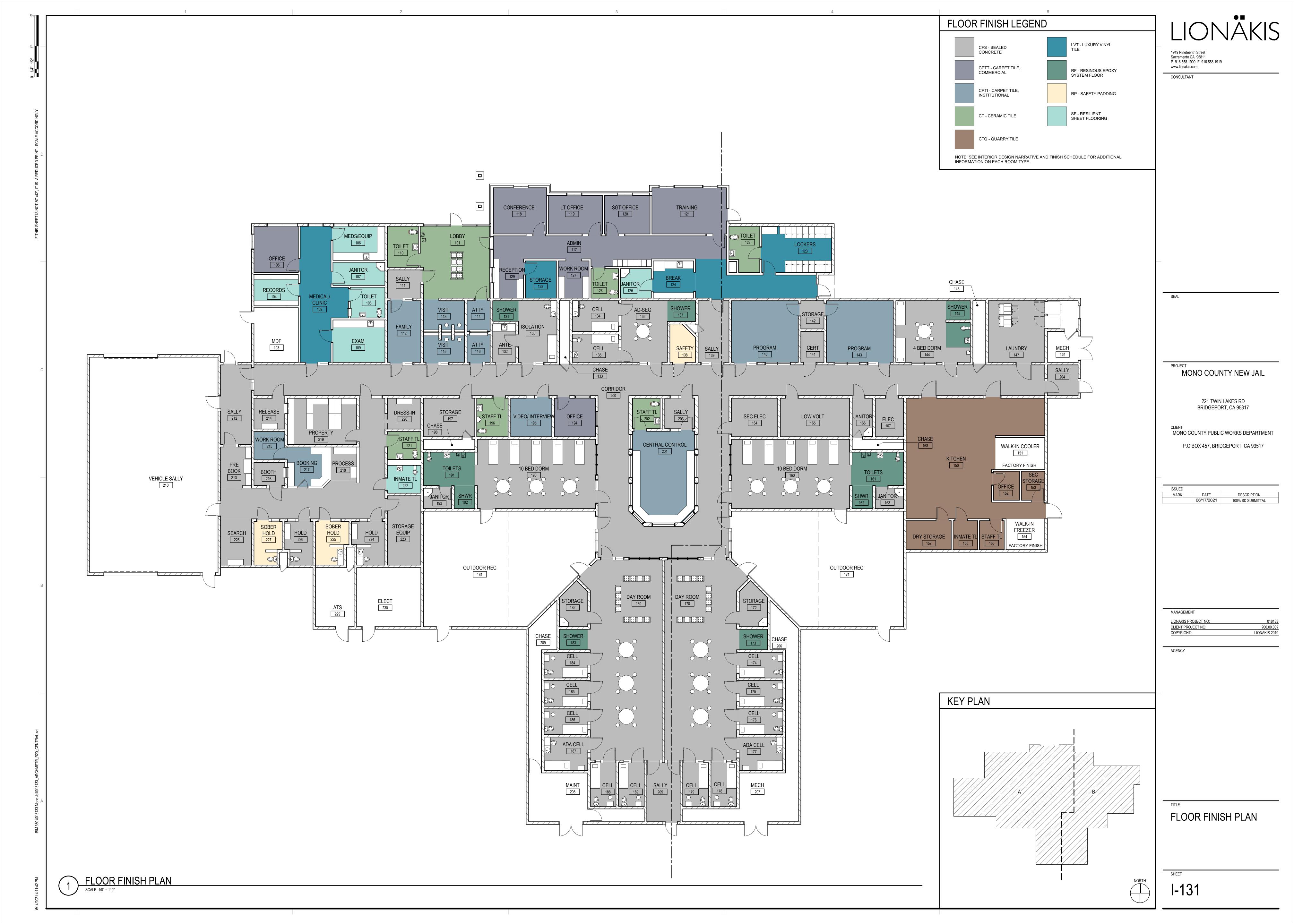
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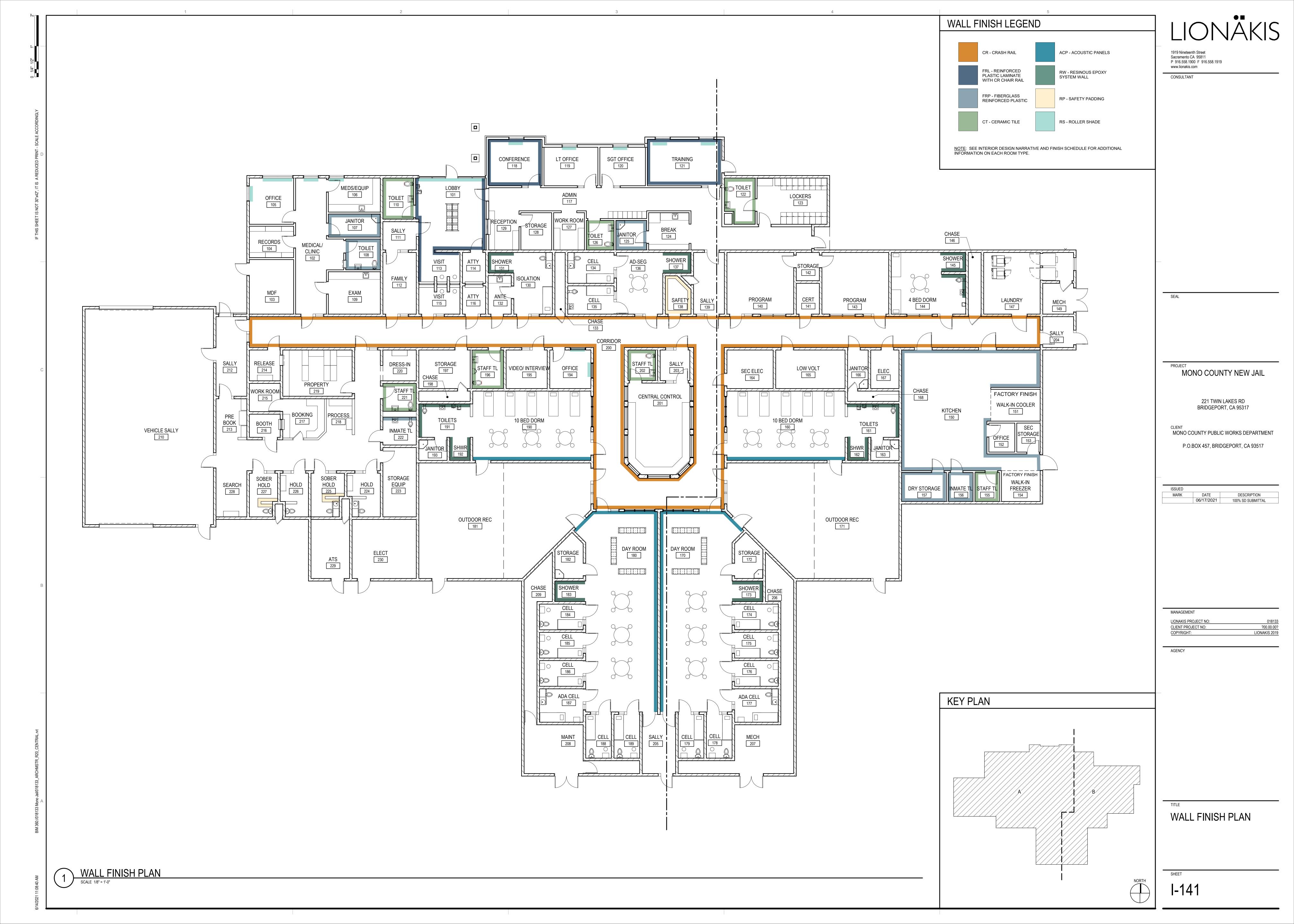
SCHEDULES / DIAGRAMS - WINDOWS

SHEET

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DEFERRED SUBMITTAL NOTES

ENTIRE AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DEFERRED-APPROVAL ITEMS.

DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS.

INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER AND FIRE ALARM SYSTEMS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE

SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL

DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGNATED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION.

DEFERRED SUBMITTAL SHALL INCLUDE COMPREHENSIVE ENGINEERING ANALYSIS BY A CALIFORNIA LICENSED FIRE PROTECTION ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND THE CONTENTS OF SECTION 21 10 00 & SECTION 28 31 00 (INCLUDING RELATED AND/OR REFERENCED REQUIREMENTS IDENTIFIED THEREIN). SUBMITTAL SHALL INCLUDE COMPLETE HYDRAULIC CALCULATIONS AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM.

REFER TO SPECIFICATIONS SECTION 21 10 00 FOR DELEGATED DESIGN REQUIREMENT DETAILS.

FROM THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.

ANCHORAGE & BRACING NOTES

1. SHOP DRAWINGS AND ENGINEERING CALCULATION FOR ANCHORAGE, SUPPORT, AND SEISMIC BRACING OF MECHANICAL EQUIPMENT, PIPING AND ETC NOT SHOWN ON DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SUBMITTALS SHALL BE SIGNED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CA.

- 2. ALL FIRE PROTECTION EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN SECTIONS 13.6.8, 13.6.7, 16.6.5.6, AND 2019 CBC SECTIONS 1617A.1.20, 1615A.1.21, AND 1615A.1.22.
- 3. THE BRACING AND ATTACHMENTS TO STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPOVALS WITH AN OPA #, SUCH AS "MASON INDUSTRIES" (OPA 349) OR "ISAT" (OPA 485) AS MODIFIED TO SATISFY THE ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D. COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE DISTRIBUTIONS SYSTEMS.
- 4. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT BRACE LOADS.

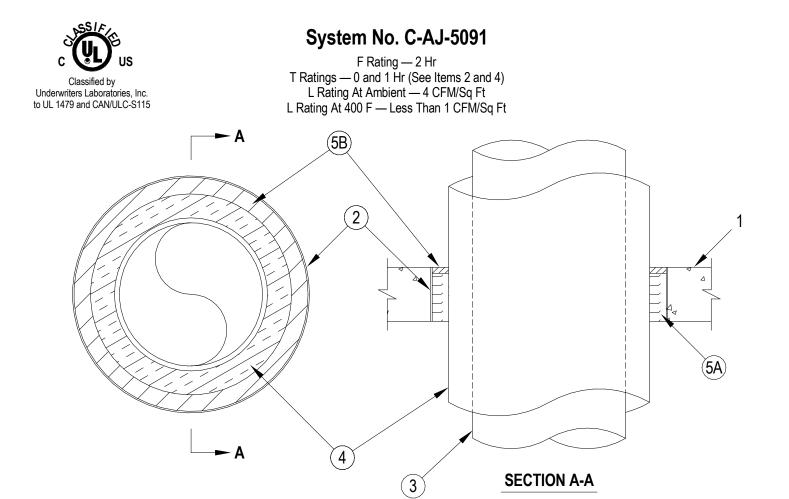
OFFICE OF THE STATE FIRE MARSHAL NOTES

I. SHOP DRAWING SUBMITTALS TO THE CSFM OFFICE FOR REVIEW SHALL INCLUDE A DETAILED SCOPE OF WORK DESCRIPTION FOR EACH BUILDING/SHEET.

- 2. SHOP DRAWINGS SHALL CLEARLY INDICATE THE POINT OF CONNECTION FOR SPRINKLER CONTRACTOR'S WORK (I.E. 6" ABOVE FINISHED FLOOR, ETC).
- 3. SPRINKLER PLANS SHALL BE APPROVED PRIOR TO THE INSTALLATION OF ANY PIPE. A STAMPED SET OF APPROVED AUTOMATIC FIRE SPRINKLER DRAWINGS SHALL BE ON THE JOB SITE & USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS, SHALL BE APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL. (OSFM).
- 4. THIS AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH 2016 NFPA 13 WITH CA AMMENDMENTS.
- 5. ANY DISCREPANCIES BETWEEN THE DRAWING AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF
- 6. A MINIMUM OF 72 HOURS NOTICE SHALL BE REQUIRED FOR ANY TESTING AND/OR INSPECTION.
- 7. ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY THE OSFM.

THE INSPECTOR OF RECORD.

- 8. UPON COMPLETION OF THE AUTOMATIC FIRE SPRINKLER SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE
- 9. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE OSFM UPON COMPLETION OF THE



1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of

opening is 29 in. (737 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.

2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in.

(76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
2A. Sheet Metal Sleeve — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve

in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following

types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.

See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers.

Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224

kg/m³) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).

5. Firestop System — The firestop system shall consist of the following:

A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as

a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top

B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill mate surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark



SCALE: NONE

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PIPE PENETRATION DETAIL (MASONRY)



FIRE SPRINKLER LEGEND SYMBOL ABBREVIATION DESCRIPTION AUTOMATIC FIRE SPRINKLER PIPING —— AFS —— AFS **—**———— BFP/WM BACKFLOW PREVENTOR/WATER METER CSP COMBINATION WET STAND PIPE AND AUTOMATIC SPRINKLER PIPING ____ CSP ____ FDC FIRE DEPARTMENT CONNECTION FH FIRE HYDRANT FIRE SPRINKLER PIPING FIRE SPRINKLER PIPING DRAIN ____ D ____ FSR FIRE SPRINKLER RISER OS & Y **OUTSIDE STEM & YOKE VALVE** PIV POST INDICATOR VALVE \leftarrow —— WSP—— WSP WET STAND PIPE UPRIGHT FIRE SPRINKLER HEAD PENDANT FIRE SPRINKLER HEAD SIDEWALL FIRE SPRINKLER HEAD (FA), (TA) FROM ABOVE, TO ABOVE

SPRINKLER SYSTEM DESIGN BASIS

FROM BELOW, TO BELOW

BASIS OF DESIGN - SUPPLY PRESSURE

STATIC PRESSURE AVAILABLE IN SITE FIRE LOOP MAIN:
RESIDUAL PRESSURE AVAILABLE IN SITE FIRE LOOP MAIN:
BFP & SERVICE PRESSURE LOSSES:
NOTE: BFP PRESSURE LOSS DOWNSTREAM OF SITE FIRE LOOP.

xx PSI (FIELD VERIFY) x PSI x PSI 20 PSI

xx PSI (FIELD VERIFY)

NOTE: CONTRACTOR SHALL OBTAIN FIRE WATER FLOW AND PRESSURE TEST DATED WITHIN 6 MONTHS OF PERMIT SUBMITTAL.

DESIGN WATER DEMAND

RESIDUAL PRESSURE AVAILABLE AT RISER:

PRESSURE REQUIRED AT REMOTE SPRINKLER HEAD:

BASIS OF DESIGN SPRINKLER FLOW BASED ON DENSITY/AREA CURVES OF NFPA 13 - FIGURE 19.3.3.1.1:

(FB), (TB)

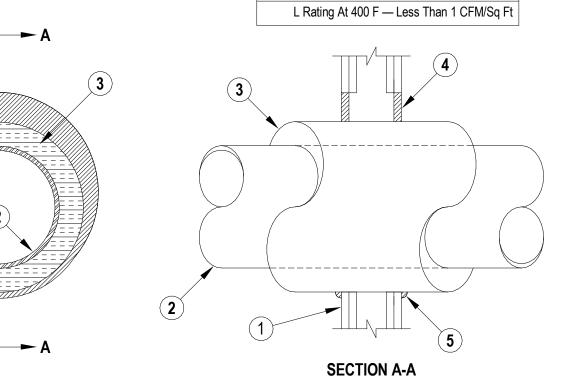
ORDINARY HZ, GR-1*, 1500SF @ 0.15 GPM/FT2 = xxx GPM HOSE STREAM ALLOWANCE** = xxx GPM TOTAL DESIGN WATER DEMAND = xxx GPM

* ORDINARY HAZARD, GROUP 1 IS DRIVING DEMAND FOR FLOW DETERMINATION ** COMBINED HOSE STREAM FOR ORDINARY HAZARD 1



System No. W-L-5029

Oyotom No. W.	- 0020
ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft



1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of

in. (610 mm) OC.

B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).

nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing

may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm)

D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less

The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).

3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above. See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less

4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark



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PIPE PENETRATION DETAIL (STUD)





DELEGATED DESIGN REQUIREMENTS

ENTIRE AUTOMATIC FIRE SPRINKLER SYSTEM IS A DEFERRED APPROVAL ITEM. DESIGN SPRINKLER SYSTEM(S), INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND IN SECTION 21 10 00.

SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY THE STATE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION PRIOR TO START OF INSTALLATION.

REFER TO SPECIFICATIONS SECTION 21 10 00 FOR DELEGATED DESIGN REQUIREMENT DETAILS.

B. DISCHARGE DENSITIES OVER THE DESIGN AREA OR AREAS

FIRE PROTECTION NOTES

THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN, SECURE WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS. SUCH SIGNS SHALL BE PLACED AT THE ALARM VALVE, DRY PIPE VALVE, PREACTION VALVE OR DELUGE VALVE SUPPLYING THE CORRESPONDING HYDRAULICALLY DESIGNED AREA. THE AREA SHALL INCLUDE THE FOLLOWING INFORMATION:

A. LOCATION OF THE DESIGN AREA OR AREAS

C. REQUIRED FLOW AND RESIDUAL PRESSURE DEMAND AT THE BASE OF THE RISER
D. HOSE STREAM DEMAND INCLUDED IN ADDITION TO THE SPRINKLER DEMAND (2019 EDITION OF NFPA 13, SECTION 28.5 & 28.6)

- A CABINET WITH A STOCK OF SPARE SPRINKLERS AND SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED. LOCATION OF THE CABINET, NUMBER AND TYPE OF SPRINKLERS SHALL CONFORM TO NFPA 13, 2019 EDITION, SECTION 16.2.7.3.
 DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE EXACT LOCATIONS.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE EXACT LOCATIONS, SIZES AND ELEVATIONS OF ALL DUCTWORK, PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO THE INSTALLATION OF ANY NEW WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.
- 5. INSTALL ALL WORK TO CLEAR ARCHITECTURAL, STRUCTURAL MEMBERS AND MECHANICAL SYSTEMS. ADJUST PIPING AS NECESSARY.
 NO ITEM SUCH AS PIPE, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT. INSTALL ALL PIPING AS HIGH AS POSSIBLE OR AS SPECIFIED
 ON DRAWINGS TO MAINTAIN MAXIMUM ACCESSIBILITY
- 6. THE ENTIRE SYSTEM IS TO BE DESIGNED IN ACCORDANCE WITH THE 2019 CALIFORNIA BUILDING CODE, LOCAL AND STATE FIRE MARSHAL REQUIREMENTS, THE LATEST EDITIONS OF THE NFPA CODES, AND ALL OTHER REGULATIONS THAT MAY APPLY.
- 7. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL AND ENGINEER OF RECORD. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL AND THE INSPECTOR OF RECORD.
- 8. ALL AREAS OUTLINED ON PLANS SHALL BE FIRE SPRINKLERED. SEE PLANS FOR LOCATIONS. REFER TO DIVISION 21 SPECIFICATION FOR
- A COMPLETE DESCRIPTION OF FIRE PROTECTION REQUIREMENTS.

 9. THE LOCATIONS OF RISERS, FEED MAINS, CROSS MAINS AND BRANCH PIPING WHERE SHOWN ON THE DRAWINGS IS APPROXIMATE. FINAL LOCATION IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS AND ALL
- 10. ALL PIPING, HEADS, AND SPRINKLER WORK SHALL BE COORDINATED TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. PIPING SHALL BE CONCEALED, EXCEPT WHERE SO INDICATED OR WHERE ABSOLUTELY NECESSARY TO BE EXPOSED. EXPOSED PIPING SHALL BE PLACED AS APPROVED BY THE STATE FIRE MARSHAL PRIOR TO INSTALLATION.
- 11. IN GENERAL, HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS AND FULLY COORDINATED WITH CEILING OR
- SOFFIT LIGHT FIXTURES AND AIR CONDITIONING INLETS AND OUTLETS.

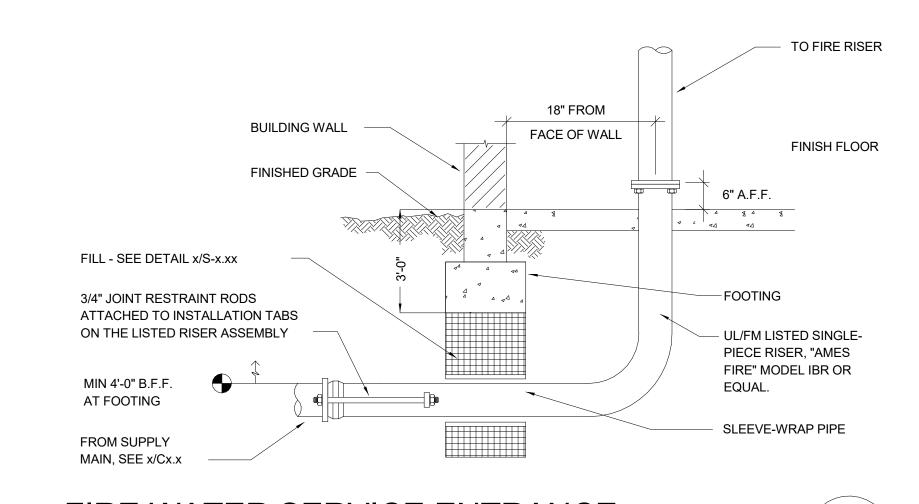
 12. PROVIDE SPRINKLER HEADS AS REQUIRED ON TOP OF SHAFTS, AT ELEVATORS, UNDER STAIRWAYS, ETC.
- 13. PROVIDE SEMI-RECESSED HEADS IN OCCUPIED SPACES, PROVIDE PENDANT HEADS AT MECHANICAL SPACES AND EXPOSED SPACES.
- 14. SLEEVE EACH PIPE THRU CONCRETE SLABS AND SEAL WATERTIGHT. PROVIDE CEILING ESCUTCHEON AS REQUIRED. COORDINATE LOCATION OF ALL PIPE PENETRATIONS THRU CONCRETE SLABS WITH GENERAL CONTRACTOR.

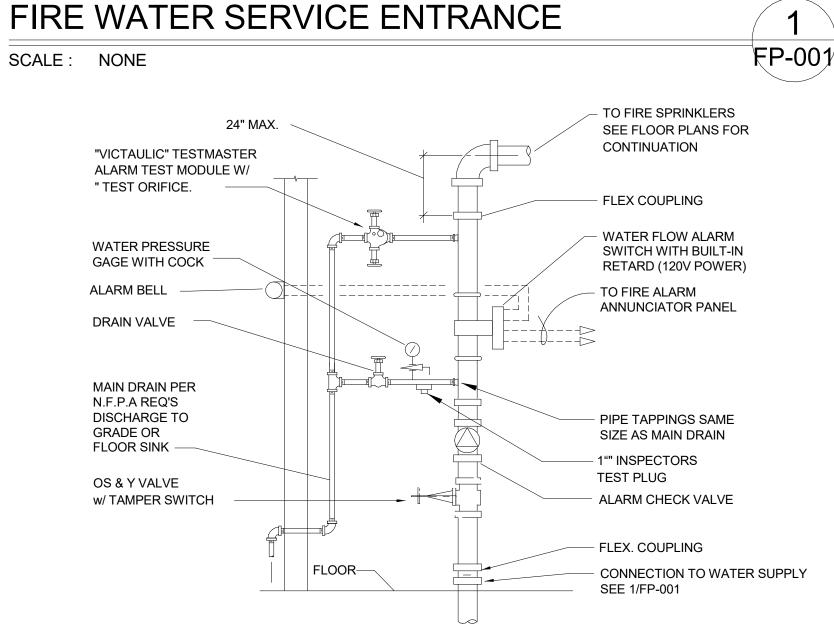
APPLICABLE CODES AND REGULATIONS.

SERVE HEADS WITHIN THE ROOM.

- 15. FIRE SPRINKLER HYDRAULIC DESIGN DENSITY SHALL BE PER NFPA 13.
 16. FOR EXPOSED AREAS PIPING SHALL RUN PARALLEL TO STRUCTURE AND BEAMS, AS HIGH AS POSSIBLE, CONCEAL ADJACENT TO BEAMS AND STRUCTURE WHEREVER POSSIBLE. PIPING SHALL BE EXPOSED, PAINTED. HEADS SHALL BE UPRIGHT AND/OR SIDEWALL, STANDARD BRONZE FINISH.
- 17. PROTECT PENETRATIONS OF RATED FIRE ASSEMBLIES IN ACCORDANCE WITH THE CBC. REFER TO DETAILS 3/FP001 AND 4/FP001 FOR
- PENETRATION DETAILS.

 18. NO PIPING SHALL BE INSTALLED IN OR OVER ANY ELECTRICAL OR DATA ROOMS OR OVER ELECTRICAL EQUIPMENT OTHER THAN TO
- 19. HILTI IS THE BASIS OF DESIGN FOR DETAILS 3/FP001 AND 4/FP001, ALTERNATE MANUFACTURERS WITH EQUAL PRODUCTS MEETING DIV 7 SPECIFICATION REQUIREMENTS ARE ACCEPTABLE. ALTERNATE MANUFACTURER'S UL DETAILS SHALL BE SUBMITTED AND





WET PIPE FIRE SPRINKLER RISER

SCALE: NONE

LIONAK

1919 Nineteenth Street

1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT





SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

MANAGEMENT

LIONAKIS PROJECT NO: 018133

CLIENT PROJECT NO: LIONAKIS 2019

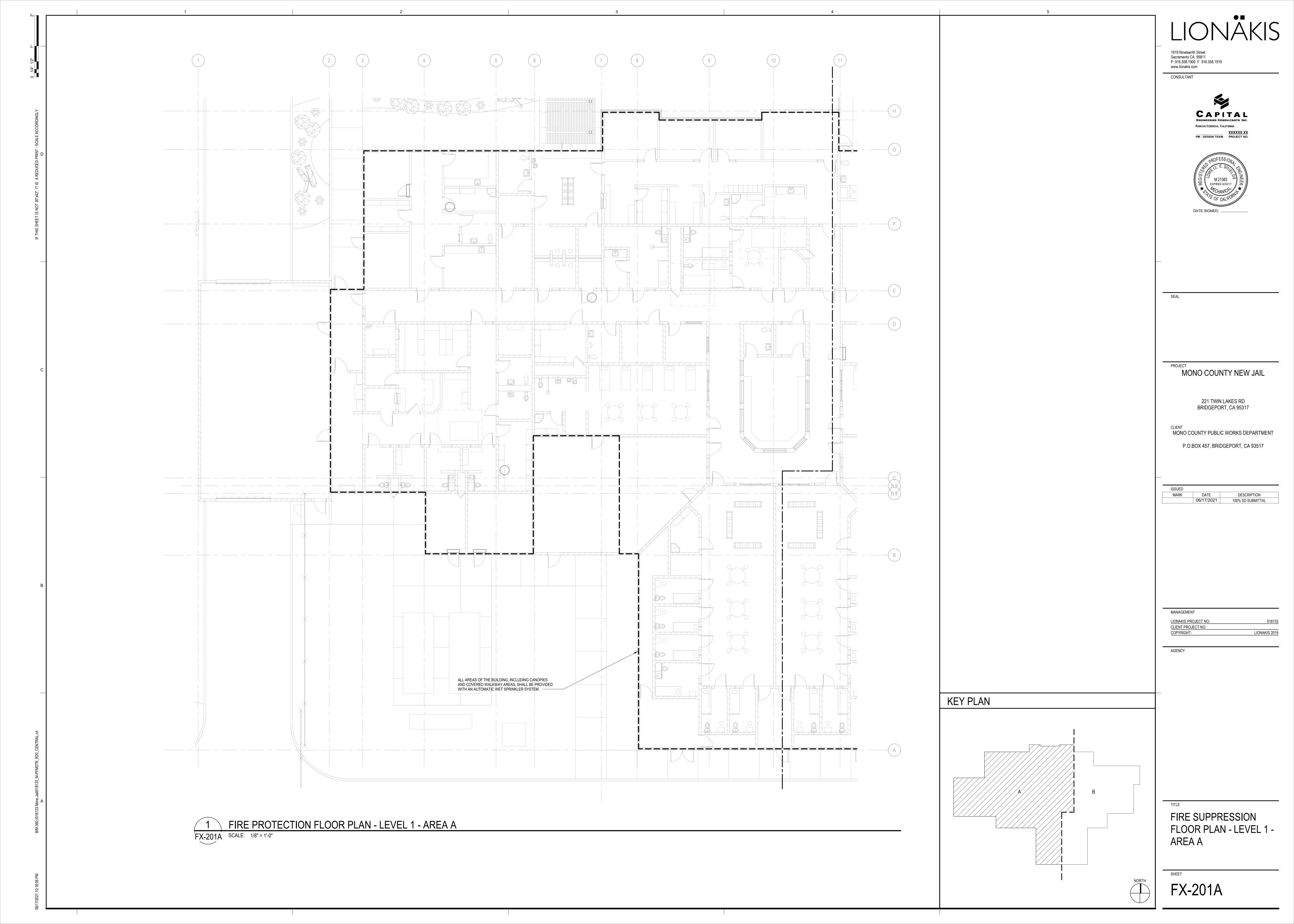
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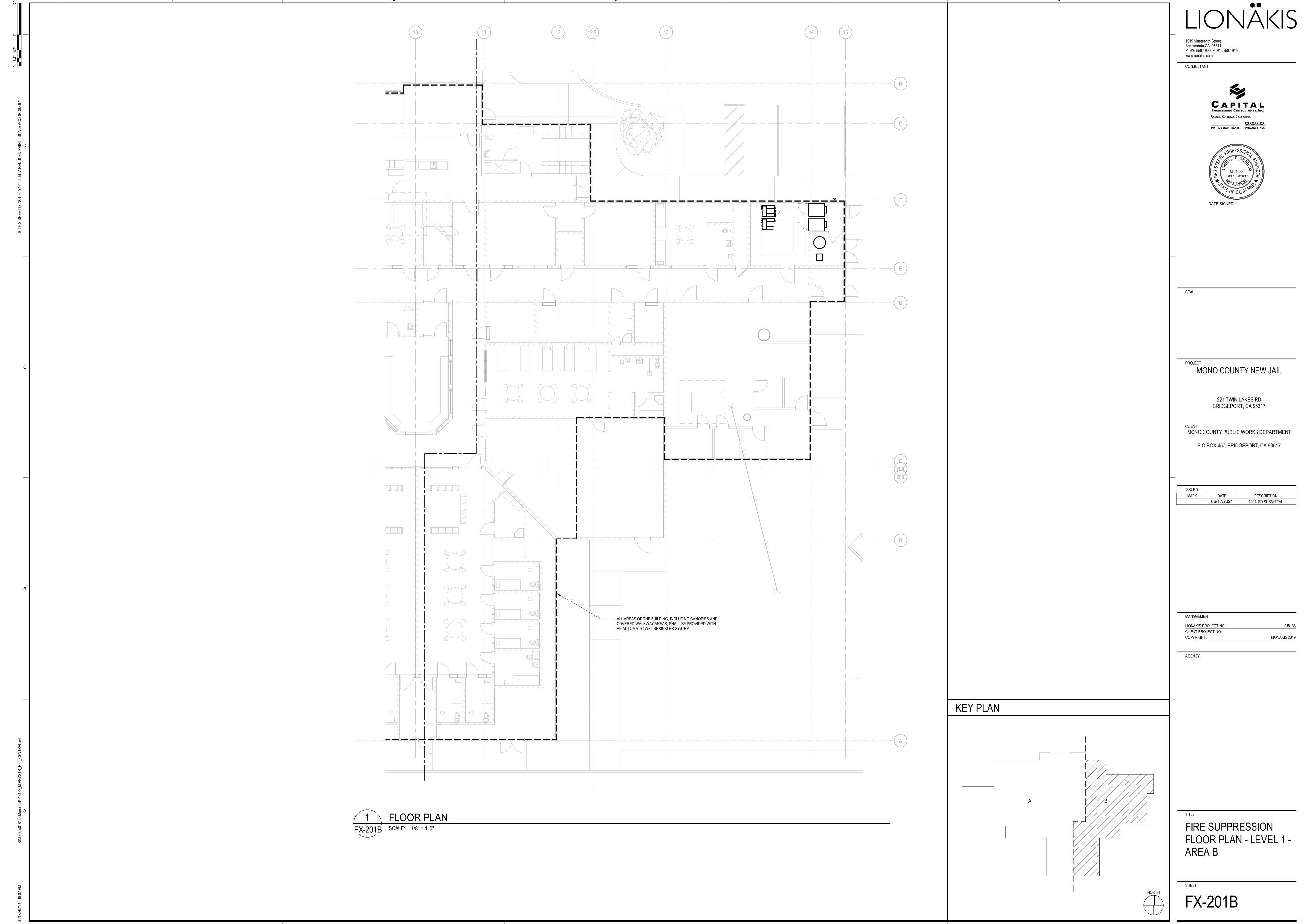
FIRE SUPPRESSION

LEGENDS & NOTES

FX-001

FP-001





	SYMBOLS LE	GEND
SYMBOL	ABBREVIATION	DESCRIPTION
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		3 WAY MODULATING CONTROL VALVE
——————————————————————————————————————		3 WAY TWO POSITION CONTROL VALVE
		3 WAY VALVE
		ANCHOR
₹		ANGLE GLOBE VALVE
<u>——</u>	AVN	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
 P		AUTOMATIC AIR VENT
		AUTOMATIC FLOW CONTROL
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE
7 7		PRESSURE, DOUBLE CHECKVALVE BALANCING VALVE
		BALL JOINT
<u>Q</u> .r.		
— O —		BALL VALVE
\		BOTTOM CONNECTION
		BUTTERFLY VALVE
ВРТ	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
0	CB, RD	CATCH BASIN, ROOF DRAIN
<u> </u>		CHECK VALVE
—		CIRCUIT SETTER VALVE
— O—	СР	CIRCULATING PUMP
Ø—	СО	CLEANOUT
DS	DS	DYNAMIC SENSOR
		ECCENTRIC REDUCER
	EJ	EXPANSION JOINT
F	FD	FIRE DAMPER
Þ	FDC	FIRE DEPARTMENT CONNECTION
0—111111	FHC	FIRE HOSE RACK AND CABINET
- ∳-⊗-	FH	FIRE HYDRANT
FS	FS	FIRE/SMOKE DAMPER
— 		FLEXIBLE CONNECTOR
		FLOAT & THERMOSTATIC TRAP
Ø	FD	FLOOR DRAIN
	FS	FLOOR SINK
—		FLOW ARROW
(FE)		FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
FS	FS	FLOW SWITCH

9	SYMBOLS LE	GEND
SYMBOL_	ABBREVIATION	DESCRIPTION
 √	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
→ >	GPR	GAS PRESSURE REGULATOR
→		GATE VALVE WITH HOSE ADAPTER
→ >>-		GATE VALVE
─ ₩		GLOBE VALVE
00	HD	HOPPER DRAIN
]-C	НВ	HOSE BIBB
<u>t</u>	НВ	HOSE BIBB
Н	Н	HUMIDISTAT
		INVERTED BUCKET TRAP
—		LIMIT OF DEMOLITION
$\sqrt{1}$		MANUAL AIR VENT
工 兌		MODULATING CONTROL VALVE
<u>—</u>		PIPE BREAK
<u>-</u>		PIPE CAP
<u> </u>		PIPE DOWN
		PIPE GUIDE
		PIPE UP
		POINT OF CONNECTION
<u> </u>	PIV	POST INDICATOR VALVE
	PRV	PRESSURE REGULATING VALVE
<u> </u>	FILV	
<u> </u>		PRESSURE RELIEF VALVE
		REDUCER
SD	SD 	SMOKE DAMPER
(SD)	SKD	SMOKE DETECTOR
— — ——————————————————————————————————		SOLENOID VALVE
		STRAINER
(TS) _X	TS	TEMPERATURE SENSOR
		TEST PLUG
<u> </u>		THERMOMETER
T _X	Т	THERMOSTAT
<u></u>	TP	TRAP PRIMER
——————		TWO POSITION CONTROL VALVE
 		UNION
0 </td <td></td> <td>VALVE IN RISER/DROP</td>		VALVE IN RISER/DROP
 ⊗	VB	VALVE IN VALVE BOX
ı 		WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
— wm —	WM	WATER METER

MECHANICAL GENERAL NOTES

- 1. FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES, SEE ARCHITECTURAL
- 2. LINE DUCTWORK FOR A MINIMUM OF 10'-0" DOWNSTREAM OF ROOF PENETRATIONS.

REFLECTED CEILING PLANS.

- 3. INSULATE AIR DUCTS EXPOSED TO THE OUTSIDE AND WITHIN BUILDINGS, SEE SPECIFICATIONS. 4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND
- INDUSTRY STANDARDS. 5. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THRU WALLS & ROOFS WITH
- ARCHITECTURAL DRAWINGS AND STRUCTURAL COMPONENTS PRIOR TO COMMENCING WORK. 6. FIRE/SMOKE DAMPERS SHALL BE PROVIDED AS REQUIRED BY 2019 CBC. FIRE/SMOKE DAMPERS SHALL
- BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE STATE INSPECTOR. COORDINATE EXACT LOCATION OF CEILING OR WALL ACCESS PANELS WITH ARCHITECT.
- 7. ALL WALL AND ROOF OPENINGS SHALL BE IDENTIFIED ON SHOP DRAWINGS AND COORDINATED WITH STRUCTURAL REQUIREMENT.
- 8. PROVIDE AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER/REGISTER OR FROM A SINGLE RETURN OR EXHAUST REGISTER/GRILLE. COORDINATE EXACT LOCATION OF CEILING ACCESS PANEL FOR EACH MANUAL AIR DAMPER LOCATED IN A NON-DEMOUNTABLE CEILING AREA. PROVIDE MANUAL AIR DAMPER AS CLOSE TO BRANCH TAKE-OFF FROM MAIN DUCT AS POSSIBLE.
- FOR ALL MANUAL AIR DAMPERS LOCATED ABOVE DORMITORY CEILINGS, PROVIDE "MAT" ELECTRO-BALANCE REMOTE BALANCE DAMPER. ROUTE LINK WIRE FROM DAMPER TO ASSOCIATED ACCESS
- 9. FOR ALL SHOWERS AND DAMPER AREAS PROVIDE STAINLESS STEEL GRILLES AND ALUMINUM DUCTS.
- 10. ALL INMATE ACCESSIBLE THERMOSTATIC SENSORS SHALL BE LOCATED IN RETURN OR EXHAUST DUCTS. WALL MOUNTED THERMOSTATS AND PRESSURE SENSORS SHALL BE PROVIDED WITH VANDAL-PROOF ENCLOSURES.

- 11. FOR ACCESS PANELS SEE REFLECTED CEILING PLANS. COORDINATE ALL ACCESS PANEL LOCATIONS
- 12. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS SHALL BE LIMITED TO 5'-0" MAXIMUM
- 13. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. SMOKE DETECTORS WHICH COMPLY WITH THE CALIFORNIA BUILDING CODE SHALL BE APPROVED AND LISTED BY THE STATE FIRE MARSHAL FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- A. COMPLIANCE WITH 2019 CMC REQUIREMENTS OF SECTION 608 SHALL BE MET FOR ALL AIR CONDITIONING UNITS (AC'S) AND AIR MOVING SYSTEMS WHERE THE AGGREGATE TOTAL OF SUPPLY AIR FOR THE COMBINED AREA SERVED EXCEEDS 2,000 CFM. SIMULTANEOUS SHUTDOWN OF ALL UNITS SUPPLY AREA SERVED SHALL OCCUR UPON ACTIVATION OF ANY SINGLE DUCT DETECTOR OR ACTIVATION METHOD (CSFM INTERPRETATIONS 02-024 AND 08-065).
- B. ALL AC/HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE CONNECTED TO BUILDING FIRE ALARM PANEL TO INITIATE A SUPERVISORY SIGNAL UPON ACTIVATION, BE INTERCONNECTED AND SHALL SHUTDOWN ALL UNITS SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR.
- C. ALL AC/HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE TESTED BY CALIBRATED MANOMETER PROVIDED BY THE INSTALLING CONTRACTOR TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCE SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURER'S DATA ON EACH DUCT-SMOKE DETECTOR INSTALLED WITHING THE UNIT/DUCTWORK.
- 14. PENETRATIONS OF PIPES, CONDUITS, DUCTS, ETC., IN BUILDING ELEMENTS REQUIRING PROTECTED OPENINGS PER CBC SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL AND COMPLY WITH ASTM E814 OR UL 1479. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL WHICH SHOW COMPLETE CONFORMANCE AND SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. THESE FINAL AND APPROVED DRAWINGS SHALL BE READILY AVAILABLE TO THE STATE INSPECTOR AT ALL TIMES AT THE PROJECT SITE. FOR THRU PENETRATIONS AT HORIZONTAL ASSEMBLIES, COMPLY WITH ASTM E119 OR UL 263.

	HVAC AE	BREVIATION	ONS
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
ABC	ABOVE CEILING	VEE	MITCHEN EVILANOT FAN
ABV	ABOVE	KEF KW	KITCHEN EXHAUST FAN KILOWATTS
ACC DR	ACCESS DOOR		
ACC P	ACCESS PANEL	LAV	LAVATORY
ACU AFF	AIR CONDITIONING UNIT ABOVE FINISHED FLOOR	LAT LBS	LEAVING AIR TEMPERATURE POUNDS
AHU	AIR HANDLING UNIT	LD	LOUVERED DOOR
APD	AIR PRESSURE DROP, INCHES WATER COLUMN	LDB	LEAVING DRY BULB
APPROX	APPROXIMATE	LPS	LOW PRESSURE STEAM
ARCH ATTEN	ARCHITECTURAL ATTENUATORS	LRA LTCP	LOCKED ROTOR AMPS LOCAL TEMPERATURE CONTROL PANEL
ATV	ACOUSTIC TURNING VANE	LVR	LOUVER
		LWB LWT	LEAVING WET BULB LEAVING WATER TEMPERATURE
BD	BALANCE DAMPER		
BDD BHP	BACK DRAFT DAMPER BRAKE HORSE POWER	MAT MAU	MIXED AIR TEMPERATURE MAKE-UP AIR UNIT
BLDG	BUILDING	MAV	MANUAL AIR VENT
BOD	BOTTOM OF DUCT	MAX	MAXIMUM
BOR	BOTTOM OF REGISTER	MBH	THOUSAND BTUS PER HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	MCA MCC	MINIMUM CIRCUIT AMPACITY MOTOR CONTROL CENTER
		MD	MOTORIZED
CAP	CAPACITY	MECH	MECHANICAL
CD	CONDENSATE DRAIN	MFR	MANUFACTURER
CEF	CEILING EXHAUST FAN	MIN	MINIMUM
CFH CEM	CUBIC FEET OF GAS PER HOUR	MOCP	MAXIMUM OVERCURRENT PROTECTION
CFM CHV	CUBIC FEET OF AIR FLOW PER MINUTE CHECK VALVE		
CLG CLR	CEILING CLEAR	OA OAD	OUTSIDE AIR DAMPER
CLR CONC	CLEAR CONCRETE	OAD OC	OUTSIDE AIR DAMPER ON CENTER
COND	CONDENSER	OD	OUTSIDE DIAMETER
CONN	CONNECT/CONNECTION	OH	OVERHEAD
CONT	CONTINUATION	OV	OUTLET VELOCITY
CONTR	CONTRACTOR	DOD	DUMBED COMPENSATE DETURN
		PCR PD	PUMPED CONDENSATE RETURN PRESSURE DROP
D	DAMPER	PRV	PRESSURE REDUCING VALVE/
DGP	DATA GATHERING PANEL		PRESSURE REGULATING VALVE
DIA	DIAMETER	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
DL	DOOR LOUVER		
DN DSP	DOWN DRY STAND PIPE	RA	RETURN AIR
DB	DRY BULB	RAD REF	RETURN AIR DAMPER ROOF EXHAUST FAN
DTR	DOWN THROUGH ROOF	RF	RETURN FAN
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
		RLA	RATED LOAD AMPS
EA	EXHAUST AIR	RV	RELIEF VENTILATOR
EAD	EXHAUST AIR DAMPER		
EC	EVAPORATIVE COOLER	S&R	SUPPLY AND RETURN
EDB EER	ENTERING DRY BULB ENERGY EFFICIENCY RATING	SA	SUPPLY AIR
EF	EXHAUST FAN	SAD	SEE ARCHITECTURAL DRAWINGS
EFF	EFFICIENCY	SB SD	SECURITY BARS SPLITTER DAMPER
EH	EXHAUST HOOD	SEER	SEASONAL ENERGY EFFICIENCY RATING
EL	ELEVATION	SF	SUPPLY FAN
ELEC ENT	ELECTRIC/ELECTRICAL ENTERING	SG	STEAM GENERATOR
EQUIP	EQUIPMENT	SK	SINK
ESP	EXTERNAL STATIC PRESSURE	SM SOV	SHEET METAL SHUT OFF VALVE
EVAP	EVAPORATOR	SP	STATIC PRESSURE
EW	ENTERING WATER	SPD	STATIC PRESSURE DROP
EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER	SQ FT	SQUARE FEET
EWT	ENTERING WATER TEMPERATURE	SQ IN	SQUARE INCHES
EXH	EXHAUST	SS STR	STAINLESS STEEL STRAINER
EXT	EXPANSION TANK	STRUC	STRUCTURAL
ř F	CUBIC FEET OF AIR FLOW PER MINUTE		
F FA	DEGREES FAHRENHEIT FROM ABOVE	TA	TO ABOVE
FB	FROM BELOW	TB	TO BELOW
FC	FLEXIBLE CONNECTION	T.C.C. TCP	TEMPERATURE CONTROL CONTRACTOR TEMPERATURE CONTROL PANEL
FCV	FLOW CONTROL VALVE	TCV	TEMPERATURE CONTROL VALVE
FD FF	FIRE DAMPER FLY FAN	TEMP	TEMPERATURE
FIN	FINISH	TFH	THERMAL FLUID HEATER
FLA	FULL LOAD AMPS	THK	THICK
FLR	FLOOR	TP TSP	TOTAL PRESSURE TOTAL STATIC PRESSURE
FPM	FEET PER MINUTE	TYP	TYPICAL
FSD FT (')	FIRE AND SMOKE DAMPER FOOT OR FEET		
2 FT	SQUARE FEET	UCD	UNDERCUT DOOR
FV	FACE VELOCITY	UF UG	UNDERFLOOR UNDERGROUND
		UON	UNLESS OTHERWISE NOTED
GA	GAUGE	UTR	UP THROUGH ROOF
GALV	GALVANIZED IRON	V (VTD)	\/ENT (\/ENT TUDOLICU DOOF)
GI GPH	GALVANIZED IRON GALLONS PER HOUR	V (VTR) VAC	VENT (VENT THROUGH ROOF) VACUUM
GPM	GALLONS PER MINUTE	VD	VOLUME DAMPER
		VF	VENTILATION FAN
НС	HEATING COIL	VFC	VARIABLE FREQUENCY CONTROLLER
HDG	HEAVY DUTY GRILLE	VLV	VALVE
HP	HORSE POWER	VRF VSD	VARIABLE REFRIGERANT FLOW
HPS	HIGH PRESSURE STEAM	VSD VV	VARIABLE SPEED DRIVE VARIABLE AIR VOLUME CONTROLLER
HTG	HEATING	VV VVRH	VARIABLE AIR VOLUME CONTROLLER WITH REHEAT COIL
HV ⊣\w	HAND VALVE		
HW HWR	HOT WATER HOT WATER RETURN	W	WATTS
HWS	HOT WATER RETURN HOT WATER SUPPLY	WALL MTD (R)	WALL MOUNTED (RECESSED)
		WB WC	WATER CLOSET
ICF	INSTANTENEOUS CURRENT FLOW	WC WMS	WATER CLOSET WIRE MESH SCREEN
IE	INVERT ELEVATION	WP	WORKING PRESSURE
	INCH	WPD	WATER PRESSURE DROP FEET OF WATER COLUMN
IN, (") IN 2			WEIGHT

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW)
26x14L	26x14L	DEPTH x WIDTH (SECTION VIEW) ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
	<u></u>	MANUAL AIR DAMPER
R or D	RorD	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
	1002	RECTANGULAR TO RECTANGULAR TRANSISTION OR ROUND TO
	OR	ROUND TRANSITION, MAX. SLOPE OF 1:3 RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	$\frac{R}{W} = 1$	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
,	W W	SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
=	- 1	CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
ROUND DUC	et -	ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
† 	— — — — — — — — — — — — — — — — — — —	3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S OF THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
\boxtimes		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
$\overline{\square}$		EXHAUST AIR, EXHAUST AIR DROP/RISE
	1111	NEW - FLEXIBLE DUCT (ROUND)
OR OR		EXISTING - FLEXIBLE DUCT (ROUND)
10"Ø	18"Ø 10"Ø	18"Ø 45° REDUCING LATERAL FITTING
18"Ø	18"Ø 10"Ø	90° REDUCING TEE FITTING
	•	

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH

1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY
- SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 3. MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE EQUIPMENT ARE TO BE ANCHORED WITH TEMPORARY

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND CBC 2019, SECTIONS 1616A.1.23, 1616A.1.24, 616A.1.25 AND 1616A.1.26. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH

ONE OF THE OSHPD PRE-APPROVALS (OPM #)

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE

1919 Nineteenth Street Sacramento CA 95811

P 916.558.1900 F 916.558.1919 www.lionakis.com





221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY NEW JAIL

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

DESCRIPTION 06/17/2021

MANAGEMENT CLIENT PROJECT NO:

LIONAKIS 2019

AGENCY

HVAC LEGENDS & NOTES

											Α	IR COI	VDITIO	NING	UNIT:	SCHE	DUL	E												
								OFNO	TOTAL	EVAP		GAS H	EATING			ELEC	TRICAL	DATA			F	OWER E	XHAUS	T						
EQUIPMENT TAG	MFR	MODEL NO	LOCATION	CFM	MIN OA (CFM)	ESP (IN WG)	NOM. TONS	SENS COOLING CAP (MBH	TOTAL COOLING CAP (MBH)	EDB EWB (F)	INPUT (MBH)	OUTPUT (MBH)	HTG EDB (F)	AFUE (%)	VOLT	PHASE	SUP FA BHP		MCA	MOCP (AMPS)	VOLT/ PH	CFM	SP H	P FLA	EER	SEER (IEER)	OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM	REMARKS
AC-1	JOHNSON CONTROLS	ZJ120N24G4	ROOF	3600	0	1.3	10	95.1	104	0 0	177.9	142.3		0	460	3	2.28	3	27.1	30	460/3	3600 (0.50	2.8	12.0	(13.65)	1800			
AC-2	JOHNSON CONTROLS	ZJ037N08D4	ROOF	900	0	0.8	3	28.1	29.8	0 0	59.3	48.2		0	460	3	0.5	1.5	14.2	15	460/3	900 (0.50	1.6	12.2	14.5	1300			
AC-3	JOHNSON CONTROLS	ZJ049N12D4	ROOF	1700	0	0.8	4	43.4	47.1	0 0	88.9	71.2		0	460	3	0.76	1.5	16.7	20	460/3	1700 ().45	1.6	12.2	15.0	1400			
AC-4	JOHNSON CONTROLS	ZJ078N18G4	ROOF	2100	0	1.0	6.5	57.2	63.9	0 0	133.4	106.7		0	460	3	1.22	2	23.5	25	460/3	2100	0.50	2.8	11.8	(13.9)	1700			
AC-5	JOHNSON CONTROLS	ZJ078N18G4	ROOF	2100	0	1.0	6.5	58.4	63.7	0 0	133.4	106.7		0	460	3	1.22	2	23.5	25	460/3	2100	0.50	2.8	11.8	(13.9)	1700			
AC-6	JOHNSON CONTROLS	ZJ037N08D4	ROOF	1300	0	0.8	3	34.2	34.2	0 0	59.3	48.2		0	460	3	0.59	1.5	14.2	15	460/3	1300	0.50	1.6	12.2	14.5	1300			
AC-7	JOHNSON CONTROLS	ZJ037N08D4	ROOF	1300	0	0.8	3	34.2	34.2	0 0	59.3	48.2		0	460	3	0.59	1.5	14.2	15	460/3	1300 (0.50	1.6	12.2	14.5	1300			
AC-8	JOHNSON CONTROLS	ZJ078N12R4	ROOF	2600	0	1.0	6.5	49.5	72.5	0 0	88.9	71.2		0	460	3	1.59	2	23.5	25	460/3	2600 (0.50	2.8	11.8	(14.6)	1700	_		
AC-9	JOHNSON CONTROLS	ZJ037N12D4	ROOF	1500	0	0.5	3	24.5	38.6	0 0	88.9	71.9		0	460	3	0.55	1.5	14.2	15	460/3	1500 ().50	1.6	12.2	14.5	1300			

								MAKE	UP	AIF	R U	NIT	-								
EQUIPMENT		MODEL		AREA	AIR FLOW	ESP		GAS HEAT	ΓING				E	LECTRICAL	DATA			OPER WT	MOUNTING	CONTROL	
TAG_NEW	MFR	NO	LOCATION	SERVED	(CFM)	(IN WG)	INPUT	OUTPUT	T.E.	EAT	LAT	HP	ВНР	VOLT/PH	MCA	MOD		(LBS)	DETAIL	DIAGRAM	REMARKS
17.0_1427		110		OLITVED	(01 101)	(114 77 0)	(MBH)	(MBH)	(%)	(F)	(F)	ПР	ВПР	VOLI/PH		IVIOP	FLA	(LDO)	DETAIL	DI/ (OI V (IVI	
MAU-1	REZNOR	RDH-400A	ROOF		0	0.00	343	278	81	-20	52	3	1.86	460/3	13.15	20	10.52	1800			

							FU	JRNAC	CE SCH	HEDUL	E.						
EQUIPMENT		MODEL		AREA	APD		GAS HE	ATING			ELECTRI	CAL DATA		OPER WT	MOUNTING	CONTROL	
TAG	MFR	NO	LOCATION	SERVED	(IN WG)	INPUT	OUTPUT	AFUE	EAT LAT	VOLT	PHASE	FLA MCA	MOCP	(LBS)	DETAIL	DIAGRAM	REMARKS
17.0				021(12)	()	(MBH)	(MBH)	(%)	(F) (F)	VOLI	ITIAGE		MOCI		5217112	B	
F-1	REZNOR	SC-150			0.35	111.25	89	80	52 75	115	1	1.9 0	0	250			

					SP	LIT SY	/STEM	INDC	OR UN	IIT SC	HEDU	LE					
EQUIPMENT	MFR	MODEL NO	NOMINAL	AIR FLOW	COOLING CAP.	HEATING CAP.	REFRIGERA SIZE		FILTER (MERV		ELECTRIC	CAL		OPER WT	MOUNTING	CONTROL	REMARKS
TAG	IVII IX	WODEL NO	TONS	(CFM)	(BTUH)	(BTUH)	RL (IN)	RS (IN)	RATING)	VOLT	PHASE	POWER (W)	FLA	(LBS)	DETAIL	DIAGRAM	NEWANNO
SHP-1	YORK	DHP36NWB21S	3	0	33,600	34,600				208	1	0	0	65			-
SHP-2	YORK	DHX24NWB21S	2	0	22,000	23,000				208	1	60	0.38	50			
SHP-3	YORK	DHX24NWB21S	2	0	22,000	23,000				208	1	60	0.38	50			
SHP-4	YORK	DHX24NWB21S	2	0	22,000	23,000				208	1	60	0.38	50			
SHP-6	YORK	DHX24NWB21S	2	0	22,000	23,000				208	1	60	0.38	50			
SHP-7	YORK	DHX24NWB21S	2	0	22,000	23,000				208	1	60	0.38	50			

					9	SPLIT	SYSTE	EM OL	JTDO	OOR L	JNI	TS	CHE	DULE					
EQUIPMENT TAG MFR	MED	MODEL	HEAT	COOLING		RANT LINE ZE		E	LECTRI	ICAL DATA				SEER	LICDE	OPER WT	MOUNTING	CONTROL	DEMARKS
TAG	IVIFK	NO	(BTUH)	(BTUH)	RL	RS	VOLT	PHASE	MCA	MOCP	F	AN	COMP	(EER)	HSPF	(LBS)	DETAIL	DIAGRAM	REMARKS
					(IN)	(IN)	VOLI	PHASE	IVICA	MOCP	W	RLA	RLA						
SCU-1	YORK	DHP36CSB21S	34600	33600			208	1	24	40	0	0.00	0	18 (8.2)	9	200			
SCU-2	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180			
SCU-3	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180			
SCU-4	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180			
SCU-5	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180	·		
SCU-6	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180			
SCU-7	YORK	DHX24CSB21S	23000	22000			208	1	20	30	92	0.65	11.5	20 (12.5)	10	180			

						FA	N S	CH	HED	ULE					
EQUIPMENT TAG	MFR	MODEL NO	CFM	SP (IN WG)	DUTY	STYLE	RPM	HP	ВНР	PHASE	VOLT	OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM	REMARKS
EF-1	GREENHECK	CUE-141HP-VG	0	0.000	EXHAUST	ROOF	0	1/4	0	1	115	100			
EF-2	GREENHECK	CUE-141HP-VG	0	0.000	EXHAUST	ROOF	0	1/4	0	1	115	100			
EF-3	GREENHECK	CUE-141HP-VG	0	0.000	EXHAUST	ROOF	0	1/4	0	1	115	100			
EF-4	GREENHECK	CUE-101HP-VG	0	0.000	EXHAUST	ROOF	0	1/4	0	1	115	75			
EF-5	GREENHECK	CUE-141HP-VG	0	0.000	EXHAUST	ROOF	0	1/4	0	1	115	100			
EF-6	GREENHECK	CUE-141-VG	0	0.000	EXHAUST	ROOF	0	1/2	0	1	115	100			
EF-7	GREENHECK	CUE-141-VG	0	0.000	EXHAUST	ROOF	0	1/2	0	1	115	100			
EF-8	GREENHECK	CUE-080-VG	0	0.000	EXHAUST	ROOF	0	1/10	0	1	115	60			
KEF-1	GREENHECK	CUE-180-VG	0	0.000	KITCHEN EX	ROOF	0	2	0	1	208	160			



1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

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CAPITAL
ENGINEERING CONSULTANTS, INC
RANCHO CORDOVA, CALIFORNIA
XXXXXXXXX



SEAL

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

MANAGEMENT

LIONAKIS PROJECT NO: 018133

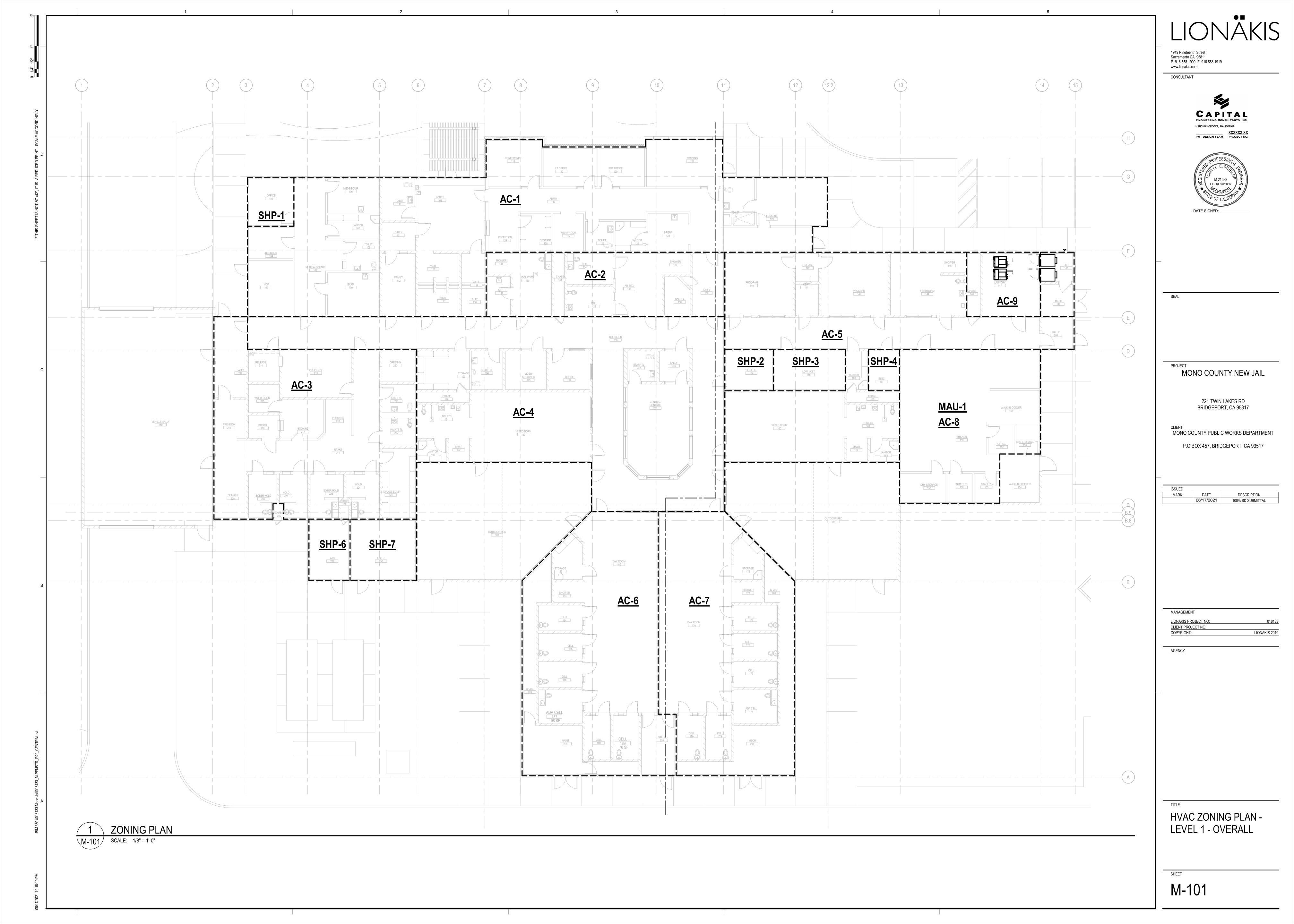
CLIENT PROJECT NO: LIONAKIS 2019

AGENCY

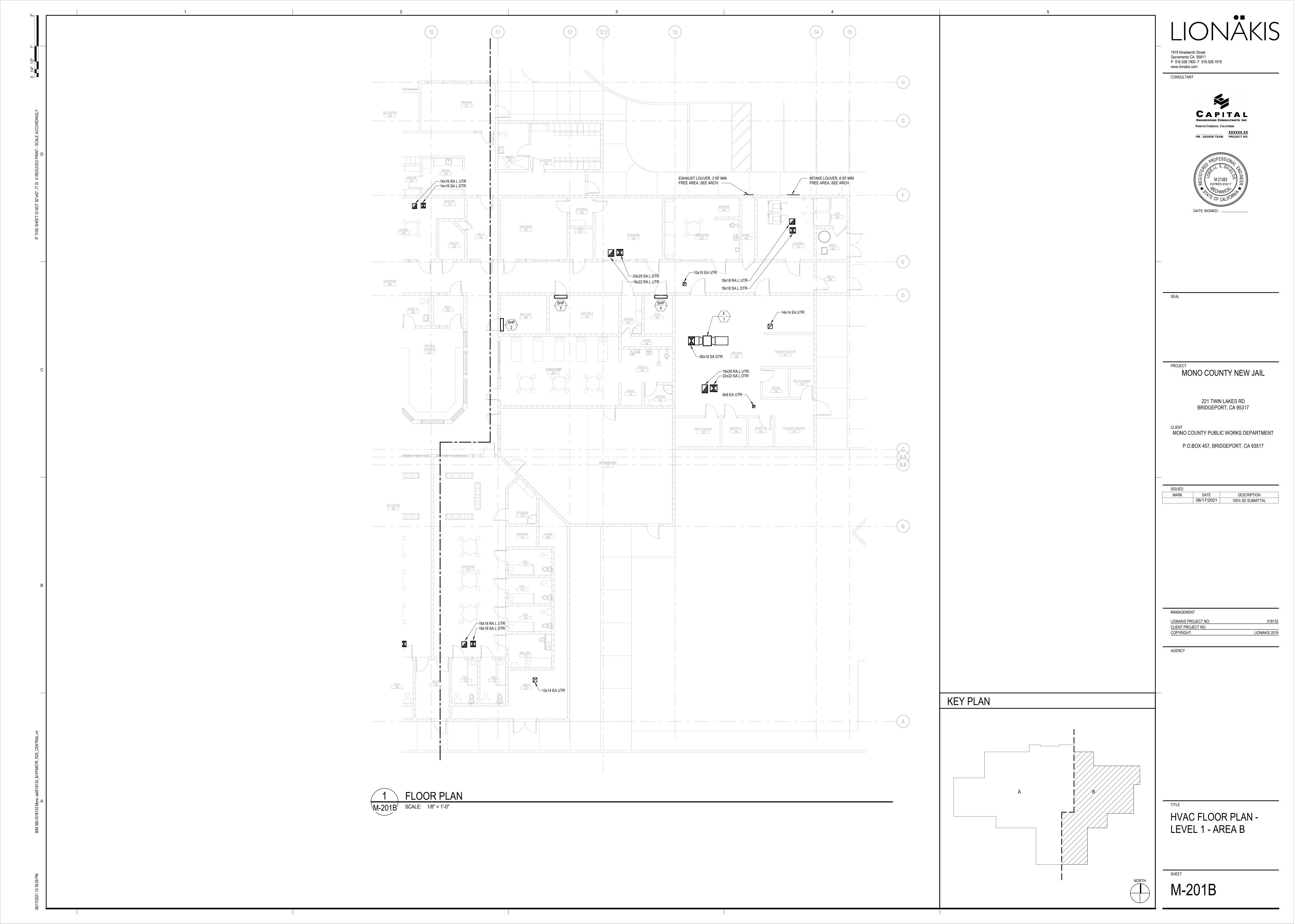
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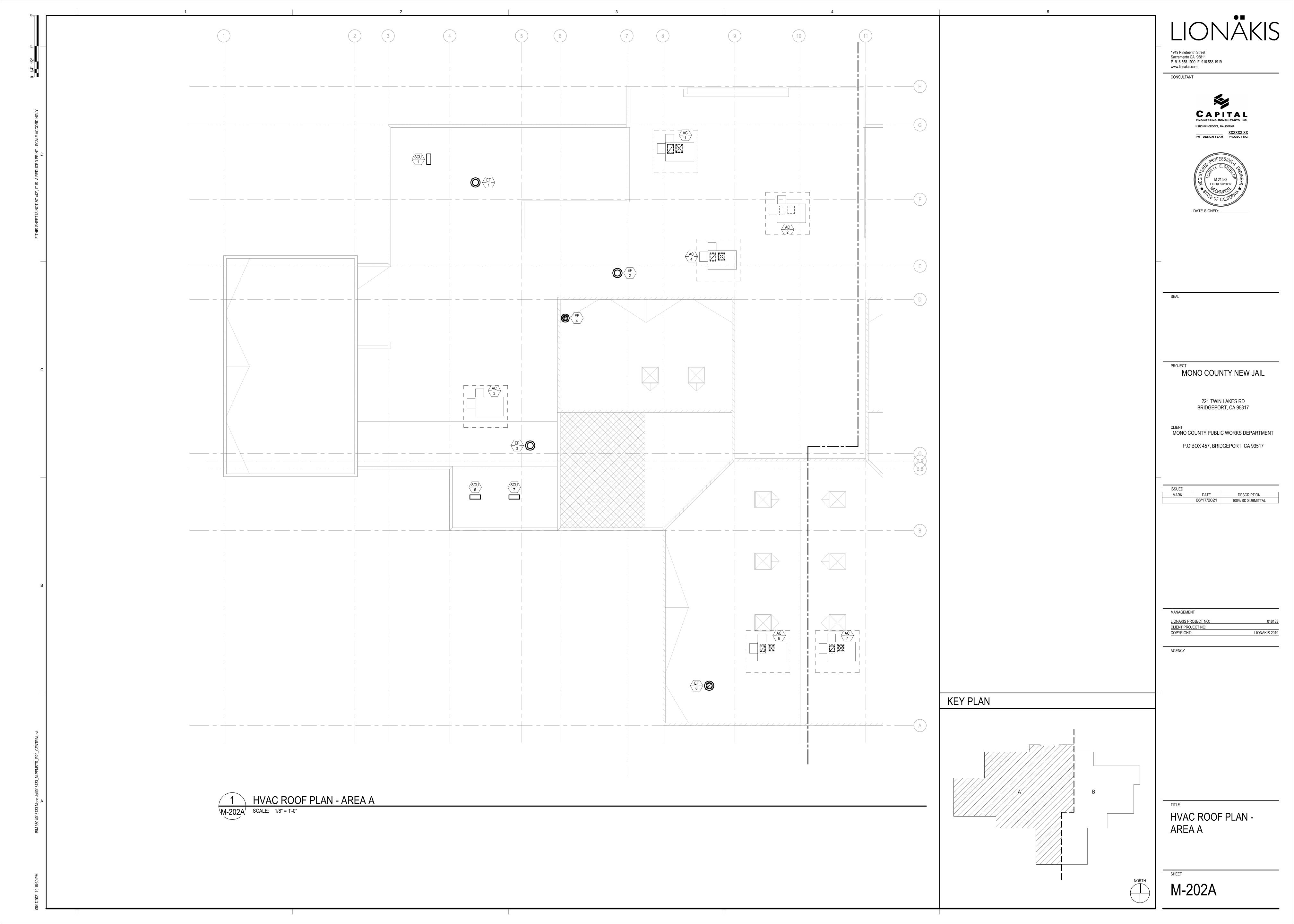
HVAC SCHEDULES

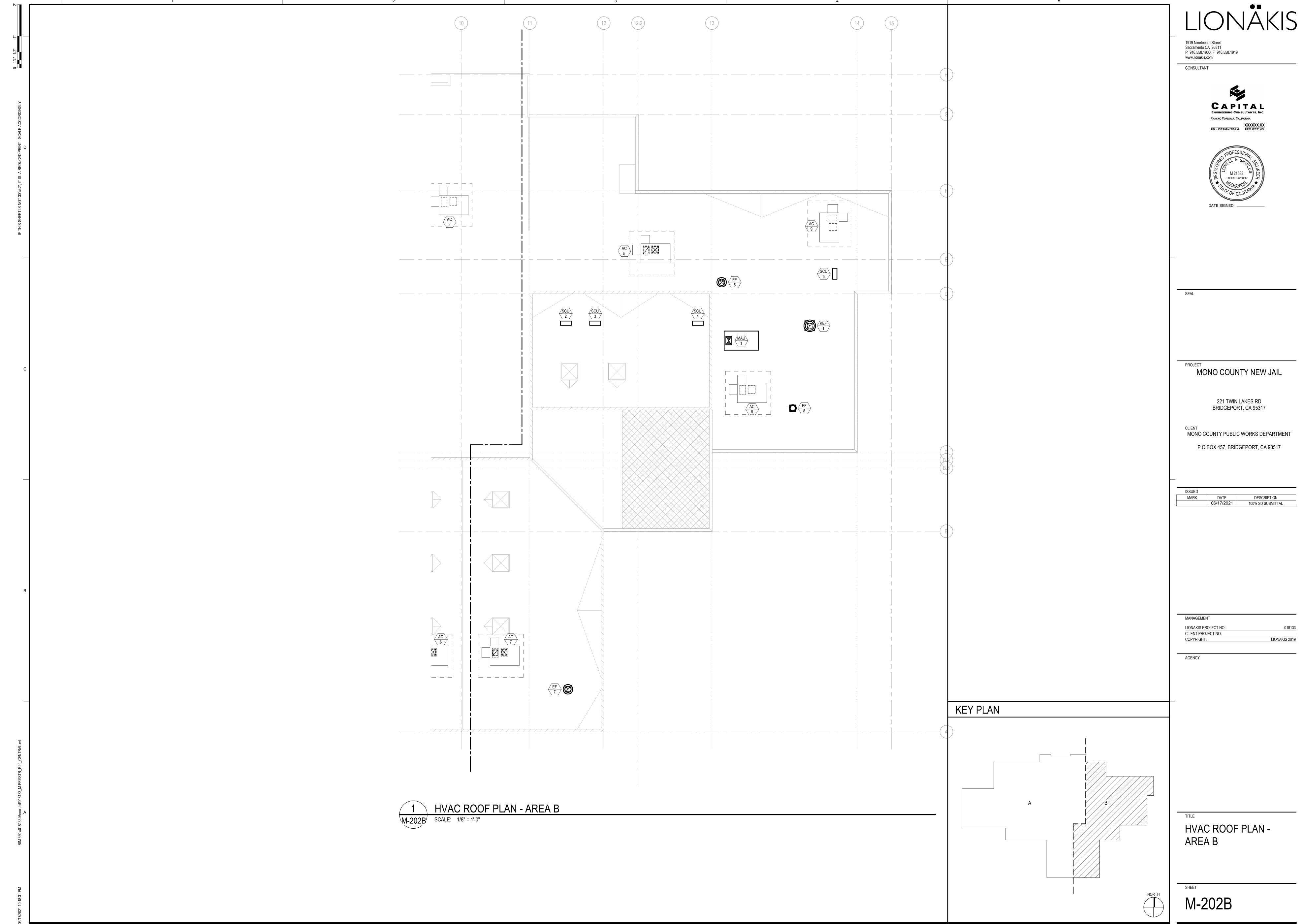
M-002











	PLUMBI	NG ABBREVIATION	BBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION			
ABC	ABOVE CEILING	NO	NORMALLY OPEN			
ACC DR	ACCESS DOOR	NTS	NOT TO SCALE			
ACC P	ACCESS PANEL	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED			
AFF	ABOVE FINISHED FLOOR	OFOI	OWNER FURNISHED, OWNER INSTALLED			
AFG	ABOVE FINISHED GRADE	ОН	OVERHEAD			
AFP	ABOVE FINISHED PAVEMENT	OS & Y	OUTSIDE SCREW AND YOKE			
AHV	AIR HOSE VALVE	PH	PHASE			
ASH	AUTOMATIC SPRINKLER HEAD	PLBG	PLUMBING			
BEL	BELOW	PLD	PLANTER DRAIN			
BFF	BELOW FINISHED FLOOR	PO	PLUGGED OUTLET			
BFG	BELOW FINISHED GRADE	PRS	PRE-RINSE SINK			
BFP	BACKFLOW PREVENTER	PS	POT SINK			
BLDG	BUILDING	РТ	PLASTER TRAP			
		(R)	RISER			
CDC	CALIFORNIA DEPARTMENT OF CORRECTIONS	REC	RECESSED			
CFF	CAPPED FOR FUTURE	REQD	REQUIRED			
CLG	CEILING	REV	REVISION			
СМР	CORRUGATED METAL PIPE	RM	ROOM			
COL	COLUMN	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER			
CONN	CONNECT/CONNECTION	RWL	RAIN WATER LEADER			
CONT	CONTINUATION	SD	STORM DRAIN			
CWH	COLD WATER HEADER	SH	SHOWER			
		SPEC	SPECIFICATION			
(D)	DROP	SS	STAINLESS STEEL/SERVICE SINK			
DF	DRINKING FOUNTAIN	STD	STANDARD			
DIA	DIAMETER	STRUC	STRUCTURAL			
DN	DOWN	(TA)	TO ABOVE			
DW	DRY WELL	(TB)	TO BELOW			
DW	DISHWASHER	T.C.C.	TEMPERATURE CONTROLS CONTRACTOR			
DWG	DRAWING	TD	TRENCH DRAIN			
		TEMP	TEMPERATURE			
(E)	EXISTING	тос	TOP OF CONCRETE			
EL	ELEVATION	TS	TAMPER SWITCH			
ELEC	ELECTRICAL	TYP	TYPICAL			
EQUIP	EQUIPMENT	lue.	UNDED ELOOD			
ES	EMERGENCY SHOWER	UF	UNDER FLOOR			
EW	EYE WASH	UG	UNDERGROUND			
EWC	ELECTRIC WATER COOLER	UL	UNDERWRITERS' LABORATORIES			
2110	ELEGINIO WILLIAGOLEN	UR	URINAL			
		US	UNDER SLAB			
FA	FROM ABOVE	V	VENT			
FB	FROM BELOW	VTR	VENT THRU ROOF			
FD	FLOOR DRAIN	VO	VALVED OUTLET VACUUM WASTE			
FFE	FINISHED FLOOR ELEVATION	W/	WITH			
FF	FINISHED FLOOR	W/O	WITHOUT			
FLR	FLOOR	W	WASTE			
FSR	FIRE SPRINKLER RISER					
FT	FLOOR TOILET	WC	WATER CLOSET			
/FT	PER FOOT	WC/L	WATER CLOSET AND LAVATORY			
FTK	FLUSH TANK	WF 70V	WASH FOUNTAIN ZONE CONTROL VALVE			
FU	FIXTURE UNIT	ZCV	ZONE CONTROL VALVE			
FV	FLUSH VALVE					
GAL	GALLONS					
нс	HANDICAPPED					
	HOUR					
HR						
HS	HAND SINK					
HT	HEIGHT					
HTR	HEATER					
HWH	HOT WATER HEATER					
ΙΕ	INVERT ELEVATION					
KEC	KITCHEN EQUIPMENT CONTRACTOR					
KS	KITCHEN SINK					
LV	LAVATORY					
MC	MOTOR CONTROLLER					
MC	MOTOR CONTROLLER					
MECH	MECHANICAL					
MTD	MOUNTED					
(N)	NEW					
NC	NORMALLY CLOSED					

SYMBOLS LEGEND						
SYMBOL	ABBREVIATION	DESCRIPTION				
——————————————————————————————————————		3 WAY MODULATING CONTROL VALVE				
		3 WAY TWO POSITION CONTROL VALVE				
		3 WAY VALVE				
\longrightarrow		ANCHOR				
<u> </u>		ANGLE GLOBE VALVE				
<u> </u>	AVN	ANGLE VALVE				
<u> </u>	AQ	AQUASTAT				
	AD	AREA DRAIN				
<u> </u>		AUTOMATIC AIR VENT				
─ \$		AUTOMATIC FLOW CONTROL				
с——э	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECKVALVE				
── >>>		BALANCING VALVE				
Q		BALL JOINT				
<u>—</u> Б—		BALL VALVE				
		BOTTOM CONNECTION				
—— <i>p</i> / ——		BUTTERFLY VALVE				
ВРТ	ВРТ	BYPASS TIMER				
	CBV	CALIBRATED BALANCE VALVE				
0	CB, RD	CATCH BASIN, ROOF DRAIN				
		CHECK VALVE				
		CIRCUIT SETTER VALVE				
—Ф—	СР	CIRCULATING PUMP				
Ø—	со	CLEANOUT				
DS	DS	DYNAMIC SENSOR				
		ECCENTRIC REDUCER				
	EJ	EXPANSION JOINT				
F	FD	FIRE DAMPER				
\$	FDC	FIRE DEPARTMENT CONNECTION				
0	FHC	FIRE HOSE RACK AND CABINET				
- ∳-⊗-	FH	FIRE HYDRANT				
FS	FS	FIRE/SMOKE DAMPER				
 ‱		FLEXIBLE CONNECTOR				
		FLOAT & THERMOSTATIC TRAP				
Ø	FD	FLOOR DRAIN				
	FS	FLOOR SINK				
		FLOW ARROW				
FE		FLOW ELEMENT				
	FLV	FLOW LIMITING VALVE				
FS	FS	FLOW SWITCH				
<u> </u>	GCK	GAGE COCK				

,	GEND			
SYMBOL	ABBREVIATION	DESCRIPTION		
—-I√T——	GSCK, PC	GAS COCK, PLUG COCK		
	GM	GAS METER		
	GPR	GAS PRESSURE REGULATOR		
→		GATE VALVE WITH HOSE ADAPTER		
		GATE VALVE		
— ₩		GLOBE VALVE		
00	HD	HOPPER DRAIN		
} -c−	НВ	HOSE BIBB		
	НВ	HOSE BIBB		
H X	н	HUMIDISTAT		
		INVERTED BUCKET TRAP		
—		LIMIT OF DEMOLITION		
$\sqrt{1}$		MANUAL AIR VENT		
——————————————————————————————————————		MODULATING CONTROL VALVE		
<u> </u>		PIPE BREAK		
E—		PIPE CAP		
 ← ← ←		PIPE DOWN		
		PIPE GUIDE		
ф— o— o—		PIPE UP		
		POINT OF CONNECTION		
ф	PIV	POST INDICATOR VALVE		
	PRV	PRESSURE REGULATING VALVE		
- **		PRESSURE RELIEF VALVE		
		REDUCER		
SD	SD	SMOKE DAMPER		
SD	SKD	SMOKE DETECTOR		
		SOLENOID VALVE		
		STRAINER		
TSX	TS	TEMPERATURE SENSOR		
		TEST PLUG		
		THERMOMETER		
T _X	Т	THERMOSTAT		
<u> Р</u>	TP	TRAP PRIMER		
——————————————————————————————————————		TWO POSITION CONTROL VALVE		
 		UNION		
0<-		VALVE IN RISER/DROP		
─ ⊗─	VB	VALVE IN VALVE BOX		
ı 		WALL CLEANOUT		
_ _	WHA	WATER HAMMER ARRESTOR		
→ WM →	WM	WATER METER		
	l	<u> </u>		

PLUMBING GENERAL NOTES

- VALVES, REFER TO SPECIFICATION SECTION 08310.

- AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
- TRAP AND PLUGGED TEE AT ALL OFFSETS.
- PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED
- 9. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW
- THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT
- 14. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
- 15. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO
- CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ 3/8" WITH EMBEDMENT AS PER STRUCTURAL PLAN, SXXX. ANCHORS SHALL BE TESTED PER IR 19-1, INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE. ANCHOR TEST SHALL BE 968 LBS. TENSION.
- PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
- PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
- 19. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
- 20. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCAITONS OF PLUMBING

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE EQUIPMENT ARE TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND

THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL. BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT

PIPING, DUCTWORK & ELECTRICAL

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND CBC 2019, SECTIONS 1616A.1.23, 1616A.1.24, 616A.1.25 AND 1616A.1.26. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR

THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #)

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

- ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING
- OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
- HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE
- THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION
- THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-
- WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
- FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
- CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE
- PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
- 11. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE.
- THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS BEFORE BEING INSTALLED.
- FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.

MEP COMPONENT ANCHORAGE NOTE

- 3. MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4

ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

DISTRIBUTION SYSTEM BRACING NOTE

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE

BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

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PM - DESIGN TEAM PROJECT NO.



MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

MARK DESCRIPTION 06/17/2021 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT NO CLIENT PROJECT NO:

LIONAKIS 2019

AGENCY

PLUMBING LEGENDS & NOTES

P-001

	CONNECTION SCHEDULE
PI I III/IBINICA ELX I I IRE	

	PLUMBING FIXTURE CONNECTION SCHEDULE												
ADA SYMBOL FIXTU		FIXTURE	FIXTURE	FAUCET OR VALVE	TRIM MANUEACTURED AND MOREL NO	REMARKS		WASTE COLD WATER			VATER	HOT WATER	
			MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.	MANUFACTURER AND MODEL No.			BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ADA	"KOHLER" HIGHCLIFF NO. K-96057-SS, FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-7/8" RIM HEIGHT, 1.28 GPF, ANTIMICROBIAL.	"SLOAN" ROYAL OPTIMA SMOOTH 111-1.28 ADA COMPLIANT, 1.28 GPF (BATTERY SIDE)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF-SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	-	-
B	WC-2	WATER CLOSET FLOOR MOUNTED, SECURITY FLUSH VALVE REAR ACCESS, ADA	"WILLOUGHBY" MODEL ETW-1490-FM-BS-HC-1.28GPF-HET-TWE-TWC4C-ET4-EFVP-FVT-TF24H-WS FLOOR MOUNTED WATER CLOSET, 1.28 GPF, TYPE 304 STAINLESS STEEL, ELONGATED BOWL, WALL SUPPLY, BLOWOUT TYPE, 18" INTEGRAL SEAT HEIGHT FOR ADA.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120v TO 24v FUSED TRANSFORMER.			2"	4"	4"	1-1/4"	1"	-	-
E	WC-3	WATER CLOSET FLOOR MOUNTED, SECURITY FLUSH VALVE FRONT ACCESS, ADA	"WILLOUGHBY" MODEL ETW-1490-FM-FA-BS-HC-1.28GPF-HET-GWC-ET4-EFVP-FVT-TF24H-AP FLOOR MOUNTED WATER CLOSET, FRONT ACCESS, 1.28 GPF, TYPE 304 STAINLESS STEEL, BACK SPUD ELONGATED BOWL, WALL SUPPLY, SIPHON JET TYPE, 18" INTEGRAL SEAT HEIGHT FOR ADA.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120v TO 24v FUSED TRANSFORMER.			2"	4"	4"	1-1/4"	1"	-	-
B	UR-1	URINAL WALL MOUNTED FLUSH VALVE ADA	"KOHLER" BARDON 1/8 GPF NO. K-4991-ET WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" ROYAL OPTIMA SMOOTH 186 HEU 0.125 GPF (BATTERY SIDE).	CARRIER: "J.R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	2"	1"	3/4"	-	-
B	WC/L-1	WATER CLOSET/LAVATORY COMBINATION UNIT, REAR ACCESS, FLOOR MOUNTED, SEC, FLUSH VALVE, ADA	"WILLOUGHBY" MODEL 4896, ELONGATED BOWL, 14 GAUGE STAINLESS STEEL, ON-FLOOR, WALL OUTLET, PAPER HOLDER, BLOWOUT JET ACTION, 18" RIM HEIGHT.	PROVIDE "SLOAN" REGAL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120v TO 24v FUSED TRANSFORMER.			2"	4"	4"	1-1/4"	1"	3/4"	1/2"
	WC/L-2	WATER CLOSET/LAVATORY COMBINATION UNIT WALL MOUNTED, SECURITY FLUSH VALVE	"WILLOUGHBY" MODEL 1546, ELONGATED BOWL, 14 GAUGE STAINLESS STEEL, ON-FLOOR, WALL OUTLET, PAPER HOLDER, BLOWOUT JET ACTION. 15" RIM HEIGHT.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120v TO 24v FUSED TRANSFORMER.			2"	4"	4"	1-1/4"	1"	3/4"	1/2"
	FT-1	FLOOR TOILET FLOOR MOUNTED FLUSH VALVE	"WILLOUGHBY" SERIES FD-1400, DETOX TOILET, BLOWOUT JET TYPE WITH FLUSH VALVE, REMOTE FLUSHING, 1.6 GPF, 14 GAUGE SS, CONCEALED WALL BOX.	FLUSH VALVE: "SLOAN" ROYAL PRISON MODEL 603-ESM-1.6, 1.6 GPF, CONCEALED, NON-HOLD OPEN PUSH BUTTON, ELECTRONIC OPERATED. 1-1/2" INLET, 24 VAC SOLENOID OPERATOR, PROVIDE FLUSH CONNECTION LENGTH SUITABLE FOR FLOOR TOILET LOCATION.	PROVIDE "SLOAN" MODEL MCR 4004 CONTROL MODULE, ONE PER FLOOR TOILET, ADJUSTABLE LOCK-OUT TIME UP TO FOUR FLUSH VALVES. MOUNT CONTROL MODULE WITHIN PIPE CHASE AT READILY AVAILABLE ACCESSIBLE LOCATION. PROVIDE "RIB" MODEL PSH500A BOX-MOUNT 120V TRANSFORMER POWERED BY DIVISION 26, 24VAC WIRING TO COMPONENTS BY DIVISION 22. PROVIDE WATER HAMMER ARRESTOR, SIZE PER PDI.	PROVIDE (1) "SLOAN" MCR 60-A REMOTE PUSHBUTTON. THE PUSHBUTTON (VARIATION-1) SHALL BE MOUNTED AT OUTSIDE OF SAFETY CELL WALL WITH WIRE RUNNING WITHIN CMU CAVITY. PROVIDE WIRE SPLITTER AND SINGLE WIRE EXTENSION AS NECESSARY TO CONTROL MODULE. SEE PLANS FOR BUTTON LOCATIONS.	2"	4"	4"	1-1/4"	1"	-	-
E	L-1	LAVATORY WALL MOUNTED ADA	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4" x 18-1/8" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL, AND PROVIDE INSULATED DRAIN PIPING. CARRIER: "J.R. SMITH" 0700 OR "ZURN" Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
B	L-2	LAVATORY WALL MOUNTED SECURITY REAR ACCESS, ADA	"WILLOUGHBY" MODEL HS-1013-46-HC-SBPH-E1L2-PZPB-EB-LW1-TF24H-WS, 18" WIDE, REAR MOUNTED, 304 STAINLESS STEEL, HANDICAP-ADA COMPLIANT LAVATORY, PROVIDE WITH SECURITY LIGATURE-RESISTANT PENAL BUBBLER/FILLER, DUAL TEMP. ELECTRONIC METERING VALVE, PIEZO ELECTRONIC PUSH BUTTONS, AND THRU WALL WASTE CONNECTION W/ P-TRAP.			PROVIDE FACTORY WALL SLEEVE AND CONCRETE WALL MOUNTING TEMPLATE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
B	S-1	SINK COUNTER MOUNTED ADA	"ELKAY" MODEL LRADQ1720-65-BP, 20" FRONT TO BACK, 17" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF-RIM. PROVIDE SINGLE HOLE, PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT PINS.	"CHICAGO" ECAST 50-E35-317ABCP FAUCET, 1.5 GPM, 4" WRISTBLADE HANDLE, GN2A 5-1/4" RIGID/SWING GOOSENECK SPOUT, POLISHED CHROME FINISH, CERAMIC MIXING CARTRIDGE, VOLUME CONTROL, INTEGRAL WATER-HAMMER ARRESTOR, 3/8" COPPY SUPPLY TUBE INLETS.	"ELKAY" MODEL LKAD35, OFFSET CRUMB CUP STRAINER WITH REMOVABLE BASKET AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	SS-1	SERVICE SINK FLOOR MOUNTED	"FLORESTONE" MODEL 87, 24" x 24" x 12" DEEP, FLOOR MOUNTED, TERRAZZO, WITH STAINLESS CAP.	"CHICAGO" MODEL 540-LD-897-WXF FAUCET 8" O.C. WITH LEVER HANDLES, CHROME FINISH, VACUUM BREAKER, TOP BRACE, PAIL HOOK AND 3/4" HOSE THREAD OUTLET AND CAST IRON TRAP.	"FIAT" MODEL 1453-BB STRAINER, PROVIDE SUITABLE BLOCKING FOR TOP BRACE AS PART OF ROUGH-IN FOR FAUCET WITH P-TRAP.	PROVIDE "FIAT" MODEL 832-AA HOSE & BRACKET AND "FIAT" MODEL 889-CC MOP RACK.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
B	SH-1	SHOWER WALL MOUNTED SECURITY, FRONT ACCESS ADA	"WILLOUGHBY" MODEL WRS-FA-ADA-EIL1-MA2-PZPB-CSH-2HD, FRONT MOUNTED WALL SHOWER WITH TWO FIXED 1.5 GPM SHOWER HEADS, FRONT ACCESS, 14 GAUGE 304 STAINLESS STEEL, ADA COMPLIANT.	PROVIDE WITH SINGLE TEMP ELECTRONIC VALVE, LIGATURE-RESISTANT ELECTRONIC PIEZO PUSH BUTTONS, AND CONNECTION TO HARD WIRED TRANSFORMER (110VAC TO 24VAC).		MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	-	-	-	3/4"	1/2"	3/4"	1/2"
G	DF-1	DRINKING FOUNTAIN WALL MOUNTED DUAL HEIGHT ADA	"ELKAY" EZH20 MODEL LZSG8WSSK, BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, REFRIGERATED. 1.5 GPM FILL RATE. STAINLESS STEEL.		WITH P-TRAP	115V AND 60HZ, 1.1 FLA, 15 WATTS.	1-1/2"	2"	2"	3/4"	1/2"	-	-
B	DF-2	DRINKING FOUNTAIN WALL MOUNTED DUAL HEIGHT SECURITY, ADA	"ELKAY" EZH20 MODEL LZSTLDDWSVRLK, BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, NON-REFRIGERATED MODEL. 1.5 GPM FILL RATE. STAINLESS STEEL.		WITH P-TRAP	115V AND 60HZ, 1.1 FLA, 15 WATTS.	1-1/2"	2"	2"	3/4"	1/2"	-	-
E	DF-3	DRINKING FOUNTAIN WALL MOUNTED SINGLE HEIGHT SECURITY, ADA	"ELKAY" EZH20 MODEL LZSTLDDWSVRLK, BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, NON-REFRIGERATED MODEL. 1.5 GPM FILL RATE. STAINLESS STEEL.		WITH P-TRAP	115V AND 60HZ, 1.1 FLA, 15 WATTS.	1-1/2"	2"	2"	3/4"	1/2"	-	-
	HB-1	HOSE BIBB	"WOODFORD" B24 WALL MOUNTED BRASS CONCEALED BOX TYPE WITH LOCKABLE COVER.				-	-	-	3/4"	3/4"	-	-
	HB-2	HOSE BIBB	"WOODFORD" MODEL 27, EXTERIOR WALL MOUNT, NON-FREEZE.		WITH INTEGRAL VACUUM BREAKER	PROVIDE RECESSED 16 GA. STAINLESS STEEL HINGED BOX WITH FULL 180° HINGED LOCKING COVER.	-	<u>-</u>	-	3/4"	3/4"	-	-
	FD-1	FLOOR DRAIN	"ZURN" MODEL Z-415	TYPE "B" STRAINER FOR EXPOSED CONCRETE TYPE "S" STRAINER FOR TILE FLOOR TYPE "SL STRAINER FOR COMPOSITION FLOOR	PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE. INSTALL VENTED P-TRAP. WHERE TRAP PRIMERS ARE INDICATED PROVIDE PROPER CONNECTION TO P-TRAP.		2"	2" 3" 4"	2" 3" 4"	-	-	-	-
	FS-2	FLOOR SINK	"ZURN" MODEL Z-1751 FOR GENERAL SPACES "ZURN" MODEL Z-1901-KC-2 FOR MECHANICAL SPACES		PROVIDE ANCHOR FLANGE, SEEPAGE PAN AND CLAMPING COLLAR. PROVIDE WHITE A.R.E. SEDIMENT BUCKET. PROVIDE 1/2 GRATE.	INSTALL FS FLUSH WITH FLOOR	2"	2" 3" 4"	2" 3" 4"	-	-	-	-
	TP-1	TRAP PRIMER	"PPP" PRIME-RITE TRAP PRIMER VALVE, MODEL FVP-1VB FOR FLUSH VALVES	PROVIDE WITH VACUUM BREAKER.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	<u>-</u>	-	1/2"	1/2"	-	-
	TP-2	ELECTRONIC TRAP PRIMER	"PPP" PRIME-RITE TRAP PRIMER VALVE, MODEL MP-500	PROVIDE BALL VALVE AT EACH TP LOCATION. PROVIDE 115V CONNECTION.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	-	-	1/2"	1/2"	-	-
	RIM	REFRIGERATOR ICE MAKER	"GUY GRAY" MODEL SSIB2AB LEAD FREE ICE MAKER HOOK-UP, WITH 1/2" FIP INLET AND 1/4" COMPRESSION OUTLET	INTEGRAL	INTEGRAL	PROVIDE STAINLESS STEEL BOX AND STAINLESS STEEL FACE PLATE.	-	<u>-</u>	-	1/2"	1/4"	-	-
	RD/OF	ROOF DRAIN OVERFLOW	COMBINATION ROOF DRAIN AND OVERFLOW 4" DIA PIPE SIZE MAX "ZURN" MODEL Z165 5" DIA AND 6" DIA - "ZURN" MODEL Z164	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLARS FOR PRIMARY AND OVERFLOW. 2-5/16" FROM DECK PLATE TO OVERFLOW INLET.		PROVIDE CLEANOUT FOR EACH FIXTURE.	-	3" 4" 5" 6"	3" 4" 5" 6"	-	-	-	-



1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT





MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

 MARK
 DATE
 DESCRIPTION

 06/17/2021
 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT NO: CLIENT PROJECT NO: LIONAKIS 2019

AGENCY

PLUMBING SCHEDULES

P-002

_M-PFMSTR_R20_CENTRAL.rvt

PLUMBING EQUIPMENT SCHEDULE

UNIT DESCRIPTION

GAS DOMESTIC HOT WATER HEATER

"LOCHINVAR" ARMOR MODEL AWLP286PM, 285 MBH INPUT, 332 GPH @ 100° RISE, MODULATING BURNER 5:1 TURNDOWN, 120V/60HZ/1PH, CONDENSATE NEUTRALIZATION KIT, 4" INLET AND FLUE.

OPER WEIGHT = 400 LBS.

DOMESTIC HOT WATER STORAGE TANK

"CEMLINE" STONESTEEL MODEL V390CST, 390 GALLON CAPACITY, 125 PSI WORKING PRESSURE, WITH SUPPORT SADDLE.

OPER WEIGHT = 4,500 LBS.

GREASE INTERCEPTOR

"JENSEN" MODEL XJZ4000EPE-G, 4,000 GALLON GREASE INTERCEPTOR, THREE (3) 24"DIA STANDARD MANHOLES, 6" INLET & OUTLET CONNECTIONS. 6"DIA INLET PIPE, 6"DIA OUTLET PIPE. PROVIDE 24"DIA CAST IRON FRAMES AND COVERS WITH GASTIGHT GASKETS AND THREE (3) RISERS AS NECESSARY, H-20 TRAFFIC RATED MANHOLES. DIMENSIONS: 16'-7" L x 7'-8" W x 6'-9" HT. "JENSEN" SAMPLE BOX MODEL EV200, 24" DIA CAST IRON FRAMES AND COVERS WITH GASTIGHT GASKETS, Z-LOC PIPE CONNECTOR, H-20 TRAFFIC RATED MANHOLES. 32" DIA. SEE DETAIL X/P-XXX.

OPER WEIGHT = 51,000 LBS.

DOMESTIC WATER SIZING CHART

GPM	MIN. PIPE SIZE	COMMENTS:		
0 - 2	1/2"	PIPE SIZES BASED ON MAX. OF 7.5 FPS		
3 - 6	3/4"	FLOW VELOCITY		
7 - 14	1"			
15 - 20	1-1/4"			
21 - 33	1-1/2"			
34 - 66	2"			
67 - 99	2-1/2"			
100 - 155	3"			
156 - 196	3-1/2"			
197 - 265	4"			
266 - 390	5"			
391 - 600	6"			



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SEAL

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

MANAGEMENT

LIONAKIS PROJECT NO: 018133

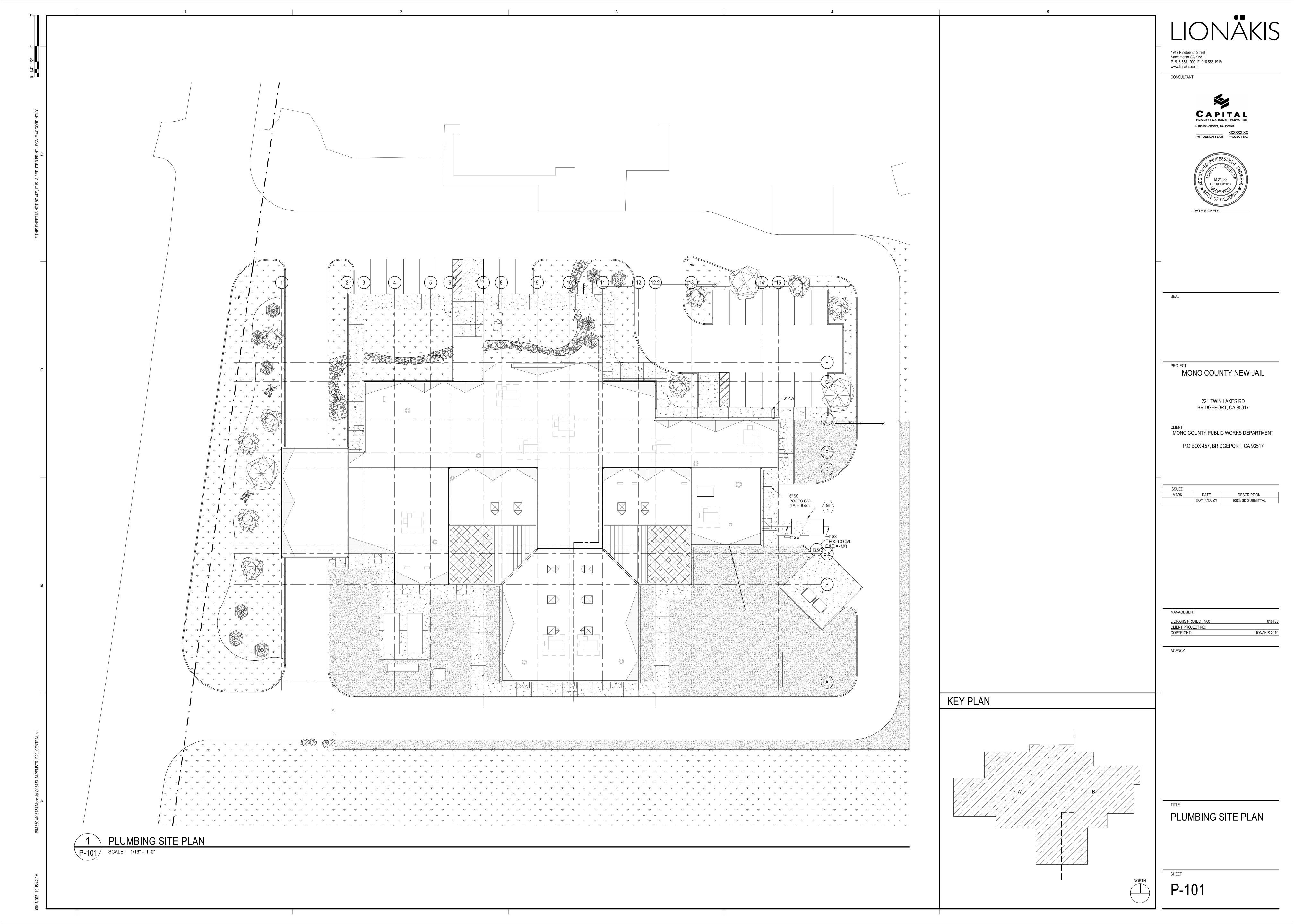
CLIENT PROJECT NO: LIONAKIS 2019

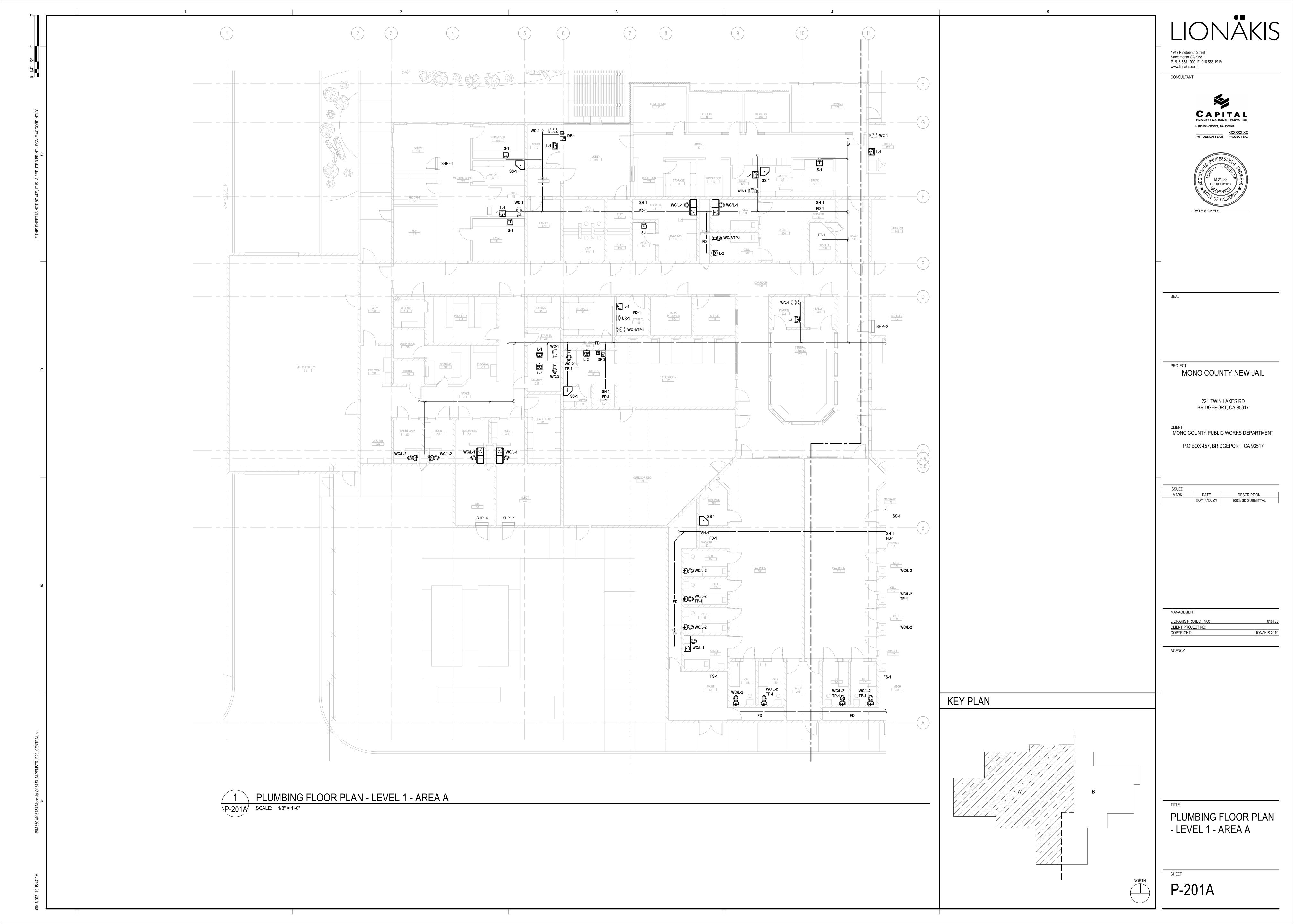
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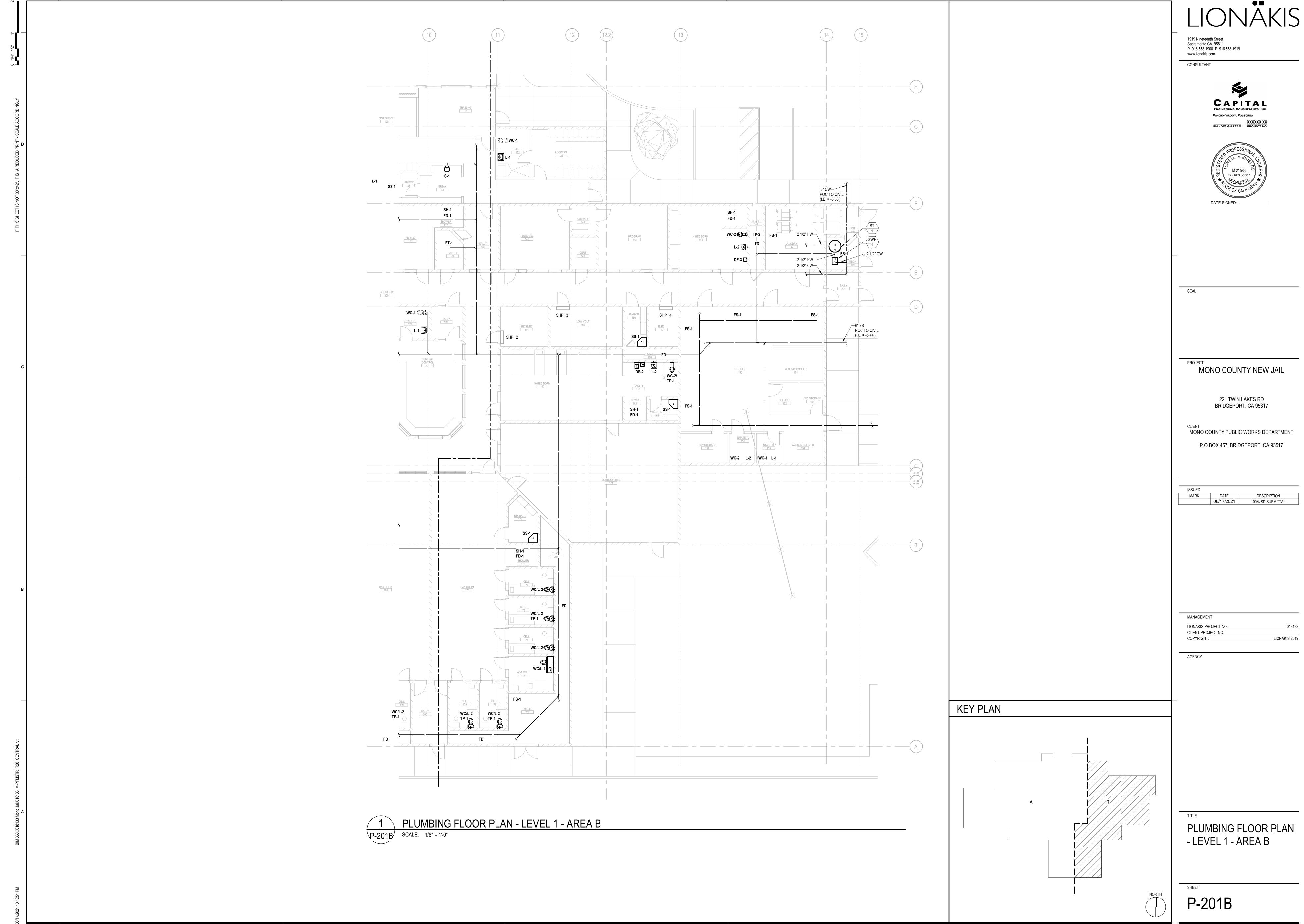
PLUMBING SCHEDULES

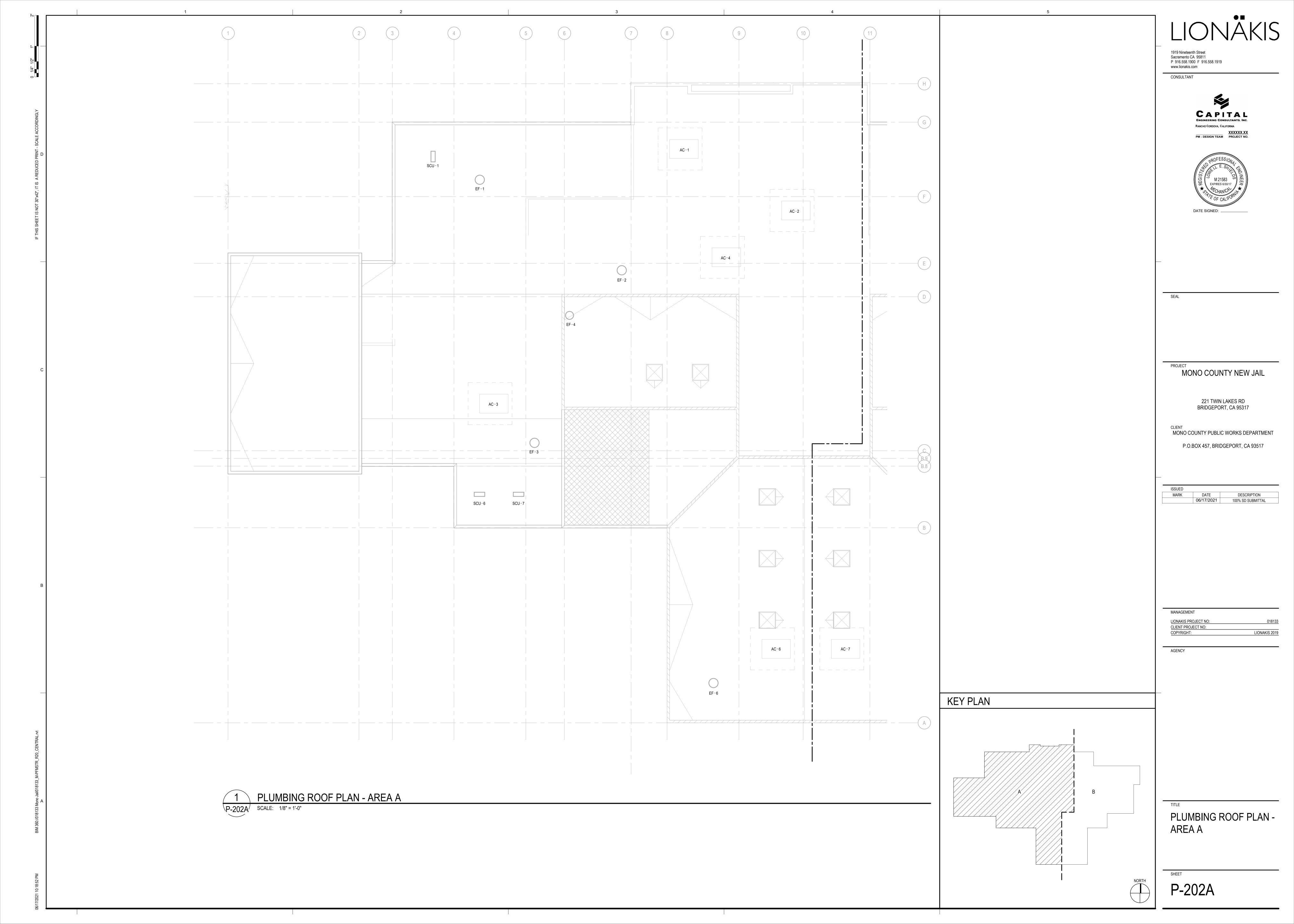
SHEET

P-003











OCCUPANCY & DAYLIGHT SENSOR NOTES

- OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION. REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR IS INCAPABLE TO MAKE ALL PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT IT WILL BE THE MANUFACTURER'S RESPONSIBILITY TO VERIFY ALL PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.
- PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY. THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.
- OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:

MAINTENANCE OF THE SENSORS.

- UPON COMPLETION OF THE INSTALLATION CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR. PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM.
- UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND

UTILITY SERVICE AND UNDERGROUND TRENCHING NOTES

- THESE PLANS HAVE BEEN PREPARED WITHOUT UTILITY COMPANIES COMMITMENTS (PENDING). LP CONSULTING ENGINEERS, INC. ACCEPTS NO RESPONSIBILITY AND SHALL NOT INCUR ANY COSTS DUE TO CHANGES IN SÉRVICE REQUIREMENTS BY THE
- CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS WITH THE UTILITY COMPANIES AS FOLLOWS:
- SOUTHERN CALIFORNIA EDISON
- CONTACT: XXX TELEPHONE COMPANY
- CONTACT: XXX
- C. CABLE TELEVISION CONTACT: XXX
- CONTRACTOR SHALL CALL THE UTILITY COMPANY'S REPRESENTATIVE TO ATTEND PRE-CONSTRUCTION MEETING
- CONTRACTOR SHALL PROTECT ANY APPLICABLE EXISTING STREET LIGHTING, UTILITY POLES, OVERHEAD LINES, UNDERGROUND WIRING. AND UTILITY PULLBOXES DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR ON-SITE AND OFF-SITE IMPROVEMENTS AND TO COORDINATE UTILITY CONNECTIONS WITH THE UTILITY COMPANIES.
- POWER SERVICE:
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH PG&E FOR ALL ASPECTS OF THIS PROJECT INCLUDING ARRANGING FOR TEMPORARY CONSTRUCTION POWER, SCHEDULING INSPECTIONS, AND OBTAINING SIGN-OFFS, SCHEDULING RELOCATION AND REMOVAL OF UTILITY EQUIPMENT, INSTALLING UTILITY EQUIPMENT AND INTRASTRUCTURE, AND SCHEDULING FINAL CONNECTION SERVICES. CONTRACTOR SHALL BE AWARE THAT POWER COMPANY REQUIRES EXTENSIVE ADVANCE NOTIFICATION AND SHOULD SCHEDULE ALL WORK ACCORDINGLY. CONTACTOR SHALL NOT MAKE ANY CLAIMS FOR TIME DELAY DUE TO ANY POWER COMPANY WORK ASSOCIATED WITH
- B. CONTRACTOR SHALL CONTACT SCE TO ARRANGE CONSTRUCTION TEMPORARY ELECTRICAL SERVICE. CONTRACTOR SHALL PAY ALL REQUIRED FEES AND INSTALLATION COSTS.
- C. PG&E POWER SERVICE LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ANY WET UTILITIES
- TELEPHONE SERVICES: A. CONTRACTOR SHALL COORDINATE WITH AT&T FOR ALL REQUIRED INSPECTIONS OF INFRASTRUCTURE WORK,
- PULLBOXES, AND TELECOM ROOM ALL AT&T COMPANY STRUCTURES MUST BE IN PLACE AND READY 30-45 DAYS PRIOR TO ANY REQUEST FOR NEW
- . UNDERGROUND TRENCHING:
- A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800-227-2600, 48 HOURS PRIOR TO DIGGING.
- B BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OF OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE), AND SITE CONDITIONS TO AVOID
- TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE, AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE
- ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNS TRANSITIONING TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40-MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.
- E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8
- F. PROVIDE 24" MINIMUM COVERAGE FOR UNDERGOUND CONDUITS, UNLESS OTHERWISE NOTED, THE EXCEPTION IS FOR SCE SERVICE CONDUITS WHICH SHALL HAVE A 36" MINIMUM BURIAL DEPTH AND BE INSTALLED WITH A RED OXIDE CONCRETE CAP, MAINTAIN 12" MINIMUM SEPARATION BETWEEN THE POWER AND THE LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHLENE WARNING RIBBON LABELED 'ELECTRICAL', LOCATED 8" BELOW GRADE IN THE TRENCH.
- G. PROVIDE UNDERGROUND TRACER WHERE NON-METAL CONDUITS ARE INSTALLED.
- H. PROVIDE PARTEX IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.
- ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPLICE-KOTE" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSEHOLDERS SHALL BE WATERTIGHT
- ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISTING PCC WALKS AC PAVING UTILITIES TREES TURE PLANTED AREAS AND OTHER FACILITIES RESULTING FROM THIS PROJECT, WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE SIDEWALKS, DRIVEWAYS, AND WALKWAYS. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCOREMARK TO SCOREMARK AFFECTED BY THE CONSTRUCTION WORK, ALL SIDEWALKS, DRIVEWAYS AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT

DEMOLITION GENERAL NOTES

ALL EXISTING EQUIPMENT, DEVICES, CONDUIT AND WIRING, ETC., WHERE SHOWN ON PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS AND ARE SHOWN FOR CLARITY. IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND BEFORE START OF ANY ELECTRICAL WORK, CONTRACTOR SHALL VERIFY ON-SITE ALL EXISTING LOCATIONS AND CONDITIONS TO ASCERTAIN ALL WORK REQUIRED.

ALL DEMOLITION GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

- EXISTING ELECTRICAL MAIN SERVICE IS BEING REPLACED WITH NEW THAT IS TO BE INCLUDED IN THE SCOPE OF WORK. CONTRACTOR SHALL VERIFY AND COORDINATE. THE SEQUENCE OF WORK WITH THE LOCAL UTILITY COMPANY. THE OWNER/DISTRICT'S REPRESENTATIVE AND OTHER TRADES AT THE EARLIEST START OF CONSTRUCTION FOR ALL REQUIREMENT AND SCHEDULE THE REQUIRED WORK FOR A SMOOTH AND TIMELY TRANSFORMATION FROM THE EXISTING SERVICE TO THE NEW SERVICE TO ENSURE THAT ALL WORK PROCEED WITH A MINIMUM OF INTERFERENCE AND DELAY. LIMIT THE ELECTRICAL SHUTDOWN TO A MINIMAL SO IT WILL NOT AFFECT THE EXISTING FACILITY'S NORMAL DAILY FUNCTIONS AND OPERATION
- CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTIILITIES AND/OR OTHER EXISTING FACILITY'S SYSTEMS AND SERVICES AS POSSIBLE. CONTRACTOR SHALL NOTIFY THE OWNER/DISTRICT'S REPRESENTATIVE AT LEAST 72 HOURS TO SCHEDULE ALL NECESSARY SHUTDOWN. SHUTDOWN WORK SHALL BE PERFORMED AFTER THE NORMAL OPERATION HOURS OF THE FACILITY, IF SO DIRECTED BY THE OWNER/DISTRICT'S REPRESENTATIVE
- ALL REMOVED AND/OR DEMOLISHED ELECTRICAL MATERIALS AND EQUIPMENT TO BE ACCOMPLISHED UNDER THIS CONTRACT, WHICH IN THE OPINION OF THE OWNER/DISTRICT'S REPRESENTATIVE ARE DEEM SALVAGEABLE. SHALL REMAIN THE PROPERTY OF THE OWNER/DISTRICT. ALL ELECTRICAL MATERIAL AND EQUIPMENT CONSIDERED NOT SALVAGEABLE SHALL BE REMOVED FROM THE SITE AND DISPOSED BY THE CONTRACTOR ACCORDINGLY WHERE REMOVAL OF AN EXISTING SYSTEM'S DEVICE WILL RESULT IN LOSS OF CIRCUIT CONTINUITY, THE ISOLATED PORTIONS OF THE

CIRCUIT SHALL BE RECONNECTED TO PROVIDE SERVICE TO ALL REMAINING DEVICES. IF SITE CONDITIONS MAKE RECONNECTION

- IMPOSSIBLE, CONNECTION SHALL BE MADE FROM AN ADJACENT AVAILABLE DEVICE AS NOTED AND/OR AS DIRECTED BY THE ARCHITECT AND/OR THE OWNER/DISTRICT'S REPRESENTATIVE WHERE EXISTING CONCEALED CONDUITS, WHETHER SHOWN OR NOT, OR SPECIFIED TO BE REUSED, WHICH BECAME EXPOSED DUE
- TO CONSTRUCTION CHANGES. IT SHALL BE REROUTED TO THE NEAREST AVAILABLE REUSED OUTLET. ALL EXISTING EXPOSED CONDUITS AND/OR WIRING THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE MAINTAINED FOR EXISTING SYSTEM FUNCTION AND CONTINUITY, WHETHER SHOWN ON PLAN OR NOT, ARE TO BE REROUTED, CONCEALED IN WALL
- AND/OR CEILING FOR A CLEAN FINISHED SURFACE WITH NO EXPOSED CONDUITS AND/OR WIRING WITHIN THE REMODELED AREA. REMOVE ALL EXISTING EXPOSED CONDUITS, WIRING, ELECTRICAL OUTLETS, DEVICES AND EQUIPMENT THAT ARE DETERMINED BY THE DISTRICT AND ARCHITECT TO BE NON FUNCTIONAL AND/OR NOT BEING USED FROM WITHIN THE REMODELED ARE FOR A CLEAN FINISHED SURFACE.
- WHERE EXISTING WIRING OR EQUIPMENT IS ABANDONED AS A RESULT OF THIS CONTRACT, IT SHALL BE REMOVED INSOFAR AS POSSIBLE. THIS INCLUDES BUT IS NOT LIMITED TO: A REMOVE ALL WIRE AND CARLE
- B REMOVE ALL DEVICES AND FOUIPMENT C. REMOVE ALL EXPOSED CONDUIT AND CONDUIT IN ACCESSIBLE CONCEALED AREA, AS FAR AS POSSIBLE. D. CUT OFF AND CAP ALL ABANDONED CONDUIT. STUBS SHALL NOT BE PROTRUDED ABOVE FLOOR AND/OR FINISHED WALLS AND
- WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, ETC., CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS AS DIRECTED BY THE ARCHITECT AND/OR OWNER/DISTRICT'S REPRESENTATIVE. WHERE SHOWN ON PLAN FOR REMOVAL OF EXISTING CONDUITS. REMOVE ALL PORTIONS OF CONDUITS WHERE IT IS ACCESSIBLE AND
- ABANDON PORTIONS OF CONDUITS WHERE IT IS INACCESSIBLE. CUT AND/OR FINISHED WALLS AND CEILINGS. 2. CONTRACTOR SHALL UPDATE WITH NEW TYPED WRITTEN PANEL DIRECTORIES TO EXISTING PANELS INVOLVED IN THIS RENOVATION
- WORK THAT SHALL REFLECT ALL CHANGES TO THE CIRCUIT DESIGNATIONS.
- 13. PROVIDE AND INSTALL PROTECTIVE COVERING OVER EXISTING EQUIPMENT IN AREA WHEN INSTALLING ANY NEW WORK. 14 COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
- 5. REFER TO MECHANICAL AND PLUMBING DRAWING FOR HEATERS. EXHAUST FANS, WATER HEATERS, PUMPS, AND ETC., WHICH REQUIRE TO BE DISCONNECTED BY THE FLECTRICAL CONTRACTOR FOR REMOVAL OR ABANDONMENT BY THE MECHANICAL AND/OR PLUMBING CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SEQUENCE FOR WORK WITH THE MECHANICAL
- AND/OR PLUMBING FOR REMOVAL OF ALL APPLICABLE STARTERS. DISCONNECT SWITCHES AND ASSOCIATED CONDUIT AND WIRING. 16. ALL LIGHT FIXTURES INDICATED AS RELOCATED SHALL BE CLEANED AND RE-LAMPED PRIOR TO THE RE-INSTALLATION.

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

- THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
- CODES, ORDINANCES, AND UTILITY COMPANIES. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS,
- WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.

PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL

- WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC. STATE, COUNTY, AND CITY)
- DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
- ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
- OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD

ALL ELECTRICAL DEVICES, EQUIPMENT, FIXTURES, CONDUITS, AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS

- PENETRATIONS, MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
- 10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.

13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR.

- 11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED. 12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM
- MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES, PER CEC 410.116) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY
- THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
- 15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
- 16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
- 7. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR
- 18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEC STANDARDS OF INSTALLATION.
- 19. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS 20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT IS REQUIRED TO BE INCLUDED IN THE BID
- 21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED. 22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL
- SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.
- SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A). 24 BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C.
- CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
- 25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III; BRANCH
- 26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL
- CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS. 27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC

314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE

- 28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE
- ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM. 29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDING ALL CONDUITS, CONTROL WIRING
- AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS. 30 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE FOLIPMENT LOCATIONS COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS
- THROUGH EQUIPMENT MOUNTING CURES WHERE POSSIBLE, VERIFY ON-SITE. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSITE, PROVIDE WEATHER-PROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERYIFY
- 32. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTION IS REQUIRED, WHETHER SHOWN ON PLANS OR
- 33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE OF SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH
- QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 15 MECHANICAL PLANS AND SPECIFICATIONS 34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRED. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND
- PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.

LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.

- 35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440-II. 36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL
- CONTRACTOR, UNLESS NOTED OTHERWISE. 37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
- 38. CONTRACTOR VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
- 39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
- 40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS. OPEN FOOD STORAGE. AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND
- SHALL BE READILY CLEANABLE 41. TELEPHONE, DATA AND POWER OUTLET ELEVATIONS FOR VIDEO VISITATION, CANTEEN AND PHONES WILL BE PROVIDED AFTER BID OPENING. OUTLETS TO BE FIELD LOCATED TO MEET ADA AND OTHER REQUIREMENTS WITH SELECTED VENDORS EQUIPMENT.
- 42. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILINGS EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT 43. PROVIDE STAINLESS STEEL COVER PLATE'S WITH SECURITY FASTENERS IN ALL AREAS WHERE INMATES MAY BE PRESENT.
- 44. ELECTRICAL CONTRACTOR SHALL:
- A. COORDINATE ALL CONDUIT INSTALLATIONS WITH TECHNOLOGY SHEETS.
- B. REFERENCE STATION LOCATIONS AND SYMBOL LEGEND FOR CHASE CONDUIT SIZES AND BACK-BOX REQUIREMENTS.
- C. INSTALL ALL CONDUITS, BACK-BOXES AND BASKET TRAY SHOWN ON TECHNOLOGY SHEETS. D. PROVIDE AND INSTALL ALL REQUIRED TECHNOLOGY PATHWAY GROUNDING/BONDING AND PLYWOOD BACKBOARDS.

SYMBOL DESCRIPTIONS ABOVE COUNTER AMPERE FRAME OR FUSE ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR AUTOMATIC FIRE SPRINKLER AMPS INTERRUPTING CAPACITY RATING AMPERES APPR APPROVED AMPERE SWITCH RATING AMPERE TRIP RATING OF BREAKER AUTO AUTOMATIC AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BELOW FINISHED CEILING **BUILDING MANAGEMENT SYSTEM** BRFAKER CONDUIT CALIFORNIA ELECTRICAL CODE COMPACT FLUORESCENT CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CIRCUIT CNTRL CONTROL C.O. CSFM CONDUIT ONLY W/PULL STRING CALIFORNIA STATE FIRE MARSHALL CURRENT TRANSFORMER COLD WATER PIPE DEFROST DISCONNECT DIST DWG DISTRIBUTION ELECTRICAL CONTRACTOR **ELECTRIC DRINKING FOUNTAIN** EVENING LIGHT ELEVATION **EMERGENCY LIGHT EMERGENCY** ELECTRICAL METALLIC TUBING END OF LINE RESISTOR EMERGENCY POWER EQPT EXH FOUIPMENT FXHAUST FXISTING EXISTING TO BE DEMOLISHED FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL FINISHED FLOOR FINISHED GRADE FULL LOAD AMPS FLEXIBLE **FLUOR** FLUORESCENT GFCI GND GROUND FAULT CURRENT INTERRUPTER GROUND HORSE POWER ISOLATED GROUND INCANDESCENT SHORT CIRCUIT CURREN ISOLATED JUNCTION BOX **KCMIL** THOUSAND CIRCULAR MILS KILOVOLTS KILOWATTS KILOVOLT AMPERES LIGHT, LIGHTS MAXIMUM MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAIN LUG ONLY MAXIMUM OVERCURRENT PROTECTION MOCP MPOE MAIN POINT OF ENTRY MOTION SENSOR MAIN SWITCHBOARD CONDUIT ONLY W/PULL STRING MOUNTED NATIONAL ELECTRIC MANUFACTURER ASSOCIATION NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS NIGHT LIGHT NOT TO SCALE ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED OVERLOAD PHASE OR POLE PULL BOX PROVIDE FOR FUTURE BREAKER POST INDICATOR VALVE POLYVINYL CHLORIDE RELOCATED REFLECTED CEILING PLAN **RECEPT** RECEPTACLE RIGID GALVANIZED STEEL CONDUIT SHIELDED SURGE PROTECTION DEVICE SPD SPECS SPECIFICATIONS SWITCH SYM TEMP SYMMETRICAL TEMPERATURE TOF TIMED OFF DELAY TAMPER SWITCH **TSTAT** THERMOSTAT TRANSIENT VOLTAGE SURGE SUPPRESSION TVSS UNIFORM BUILDING CODE UNDERGROUND PULL SECTION UNLESS NOTED OTHERWISE UNINTERRUPTABLE POWER SUPPLY VFD VARIABLE FREQUENCY DRIVE VERIFY LOCATION WATTS WEATHERPROOF WEATHERPROOF LOCKING WPU WEATHERPROOF WHILE IN USE REMOVE XÉMR TRANSFORMER

CALGREEN OUTDOOR LIGHTING REQUIREMENTS

OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4 AS

DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE. ALL OUTDOOR LUMINARIES THAT ARE RATED LESS THAN 40W ARE NOT REQUIRED TO MEET "BUG" CUT-OFF REQUIREMENTS AS DEFINED IN IESNA TM-15-11".

SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL SHEET INDEX, ABBREVIATIONS, AND NOTES
E-002	ELECTRICAL SYMBOL LEGEND
ED101	DEMOLITION ELECTRICAL SITE PLAN
ES101	ELECTRICAL SITE PLAN
ES121	SITE LIGHTING PLAN
ES161	SITE LIGHTING PHOTOMETRIC PLAN
EP111	POWER PLAN - LEVEL 1 - OVERALL
EP111A	POWER PLAN - LEVEL 1 - AREA A
EP111B	POWER PLAN - LEVEL 1 - AREA B
EP131	POWER PLAN - ROOF - OVERALL
EP131A	POWER PLAN - ROOF - AREA A
EP131B	POWER PLAN - ROOF - AREA B
EL111	LIGHTING PLAN - LEVEL 1 - OVERALL
EL111A	LIGHTING PLAN - LEVEL 1 - AREA A
EL111B	LIGHTING PLAN - LEVEL 1 - AREA B
E-411	ENLARGED POWER PLANS
E-511	ELECTRICAL DETAILS
E-611	ONE-LINE DIAGRAM

ELECTRICAL ABBREVIATIONS CONSULTING **ENGINEERS**

Sacramento CA 95811

www.lionakis.com

CONSULTANT

P 916.558.1900 F 916.558.1919

MEP & FS / Sustainability / CxA

Roseville, CA 95678

www.lpengineers.com

p 916-771-0778

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221 TWIN LAKES RD

BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

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MANAGEMENT

MARK

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ELECTRICAL SHEET INDEX, ABBREVIATIONS, AND NOTES

ELECTRICAL SYMBOL LEGEND								
ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED								
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION			
	LIGHTING FLUORESCENT / LED LUMINAIRE - T-BAR LAY-IN		<u>POWER</u>		<u>CIRCUITS</u>			
	FLUORESCENT / LED LUMINAIRE - RECESSED IN GYPBOARD		MAIN SWITCHBOARD OR DISTRIBUTION PANEL,AS NOTED		EXISTING CONDUIT TO REMAIN.			
	FLUORESCENT / LED LUMINAIRE - SURFACE	<u> </u>	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL		CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS			
• •	FLUORESCENT / LED LUMINAIRE - SUSPENDED		SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL	× ×	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.			
<u> </u>	FLUORESCENT / LED STRIP LIGHT - SURFACE OR SUSPENDED		RECESSED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.		HOMERUN TO PANELBOARD OR TERMINAL CABINET w/ CONDUCTORS AS NOTED			
	DOWNLIGHT LUMINAIRE - RECESSED		SURFACE MOUNTED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.	V	CIRCUIT CONDUTORS:			
•	WALLWASH LUMINAIRE - RECESSED	Т	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED	->> ।।। -	LONG DASH INDICATES NEUTRAL CONDUCTOR; SHORT DASHES INDICATE PHASE CONDUCTORS; CURVED DASH INDICATES EQUIPMENT GROUNDING CONDUCTOR. NUMBER BY DASHES INDICATE WIRE GAUGE OTHER THAN 12 AWG			
0	LUMINAIRE - SURFACE	ㅁ	NON-FUSED DISCONNECT SWITCH	#	CU. NO DASHES INDICATE 2#12 CU, 1#12 CU GND, IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN.			
		r	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH					
Э	LUMINAIRE - WALL	E	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL		FLEXIBLE CONDUIT, 6'-0" LONG MAX. w/ #12 CU GROUND UON.			
<u>+</u> _	LUMINAIRE - PENDANT	#1	NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE		TAGS AND LEADERS			
	TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED	⊠H ⊠	MOTOR STARTER/CONTROLLER COMPINATION CIRCUIT REPAYER DISCONNECT/MOTOR STARTER		BRACKET			
	CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT		COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER. COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS.		LEADERS			
	-HATCHED LUMINAIRE WITH "EM" ABBREVIATION INDICATES AN EMERGENCY LUMINAIRE WITH EMERGENCY POWER	X H	N.F. INDICATES NON-FUSED.	$\overline{\mathbf{x}}$	KEY NOTE SHOWN ON SAME SHEET			
EM	CONNECTIONHATCHED LUMINAIRE WITH "NL" ABBREVIATION INDICATES A NIGHT LIGHT LUMINAIREHATCHED LUMINAIRE WITH "EM/NL" ABBREVIATION INDICATES NIGHT LIGHT WITH EMERGENCY POWER CONNECTION.	•	MOTOR POWER CONNECTION	$\langle x \rangle$	LIGHT FIXTURE TAG			
NL EM /NL	SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED	#	DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	$\left\langle \begin{array}{c} x \\ \end{array} \right\rangle$	FEEDER DESIGNATION TAG			
⊗ 🏻	ON PLANS. (CEILING OR WALL)	⊕	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP	X	KITCHEN EQUIPMENT DESIGNATION TAG			
₩ ₩	DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)	= = = →	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 120V @ +16" TO BOTTOM OF BOX, UNO. DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.					
₩₩	COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.	#	GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	Ex.1	DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL, BOTTOM LETTER / NUMBER INDICATES SHEET			
	BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED	=	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH					
\square	SPOT/FLOOD LUMINAIRE - CEILING	=	ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	REF	MECHANICAL EQUIPMENT I.D. TAG - MP&S			
\bowtie	SPOT/FLOOD LUMINAIRE - ABOVE GROUND	= ⇒	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.		ONE LINE DIAGRAM			
□⊷	EXTERIOR POLE FIXTURE - SINGLE HEAD	—	FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP	(N) PANEL				
	EXTERIOR POLE FIXTURE - TWIN HEAD	- →	ISOLATED GROUNDED FOURPLEX RECEPTACLE 20A, 120V @ +16" TO BOTTOM OF BOX, UNO.	"A" 100A	PANEL IDENTIFICATION			
(a)	EXTERIOR PATHWAY POLE FIXTURE	-₩	DEDICATED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	IOOA				
×	BOLLARD FIXTURE STEP LUMINAIRE	#	GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	100A	CIRCUIT BREAKER			
_	LIGHTING CONTROLS	#	GFCI FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH	3P 9	OINGOTT BINETWELL			
	<u>LIGHTING CONTROLS</u>	"		ļ,				
\$	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.	=#	ISOLATED GROUND GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.	100A 3P	FUSED SWITCH			
\$ ³	THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.	- #	DEDICATED GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.					
\$ ^{abc}	SUBSCRIPTS "a b c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES).	=	CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX					
\$ ¹	THERMAL OVERLOAD SWITCH		CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, MOUNTED ABOVE COUNTER.		GROUND FAULT CIRCUIT INTERRUPTER			
\$ ^M	MOTOR RATED SWITCH	Ä	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO.	GFCI				
\$^	SINGLE POLE KEYED TOGGLE SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO.	•	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR	<u></u>	GROUND			
• •	PUSH BUTTON WALL MOUNTED POCKER SWITCH		FLOOR MOUNTED FOURPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR	-	UNDERGROUND TERMINATION SERVICE LUG			
<u></u> [WALL MOUNTED ROCKER SWITCH WALL MOUNTED DIMMER SWITCH		CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V	<u></u>	GREENGROUND TERMINATION GERVICE EGG			
DM	WALL MOUNTED DIGITAL DIMMER SWITCH		CEILING MOUNTED FOURPLEX RECEPTACLE, 20A, 125V	M	UTILITY METER			
<u>os</u>	WALL SWITCH OCCUPANCY SENSOR	Φ Φ	JUNCTION BOX - SIZE AS REQUIRED BY CODE. (WALL MOUNTED AND REGULAR)	M	UTILITY METER WITH C.T. COMPARTMENT METER SOCKET			
PW	PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR	□ □ □ □	JUNCTION BOX - SIZE AS REQUIRED BY CODE. (WALL MOUNTED AND REGULAR) JUNCTION BOX (FLOOR MOUNTED) - SIZE AS REQUIRED BY CODE.					
ĒΨ	DUAL TECH WALL OCCUPANCY SENSOR	① ====	PLUGMOLD		TRANSFORMER WITH GROUND			
<u>OR</u>	DIGITAL WALL CONTROL (OVERRIDE SWITCH). RUN CABLING BACK TO LIGHTING CONTROL PANEL.		POWER POLE					
M →	CORNER MOUNT MOTION SENSOR. DUAL TECHNOLOGY, PASSIVE INFRARED, OR ULTRASONIC	<u></u>	POWER AND TELEPHONE POKE THROUGH FOR PARTITION FURNITURE	<u> </u>				
	CEILING MOTION SENSOR. DUAL TECHNOLOGY, PASSIVE INFRARED, OR ULTRASONIC PASSIVE INFRARED DIGITAL CORNER SENSOR	© ⊙	FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA					
₽→	PASSIVE INFRARED DIGITAL CORNER SENSOR. DUAL TECH DIGITAL CORNER SENSOR.		FLOOR MOUNTED COMBO FOURPLEX RECEPTACLE / TELEPHONE/DATA		UFER GROUND			
<u>U</u> →	ULTRASONIC DIGITAL CEILING SENSOR.							
PC	PHOTO SENSOR	•	<u>CIRCUITS</u> ARROW	—	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL			
DS	SKYLIGHT PHOTOCONTROL SENSOR		ARROW STUB	0				
60	OPEN LOOP PHOTOCONTROL SENSOR	├	STUB AND ARROW		AUTOMATIC TRANSFER SWITCH			
		~	CONTINUATION					
DC	CLOSED LOOP PHOTOCONTROL SENSOR CEILING EXHAUST FAN		CONDUIT RISER - UP		NEUTRAL LINK			
			CONDUIT DROP - DOWN	<u> </u>				
			CONDUIT CONCEALED IN CEILING OR WALL. CONDUIT CONCEALED IN FLOOR OR UNDERGROUND	SPD	SURGE PROTECTION DEVICE			
			COMPOST CONCLASED IN FLOOR OR UNDERGROUND					

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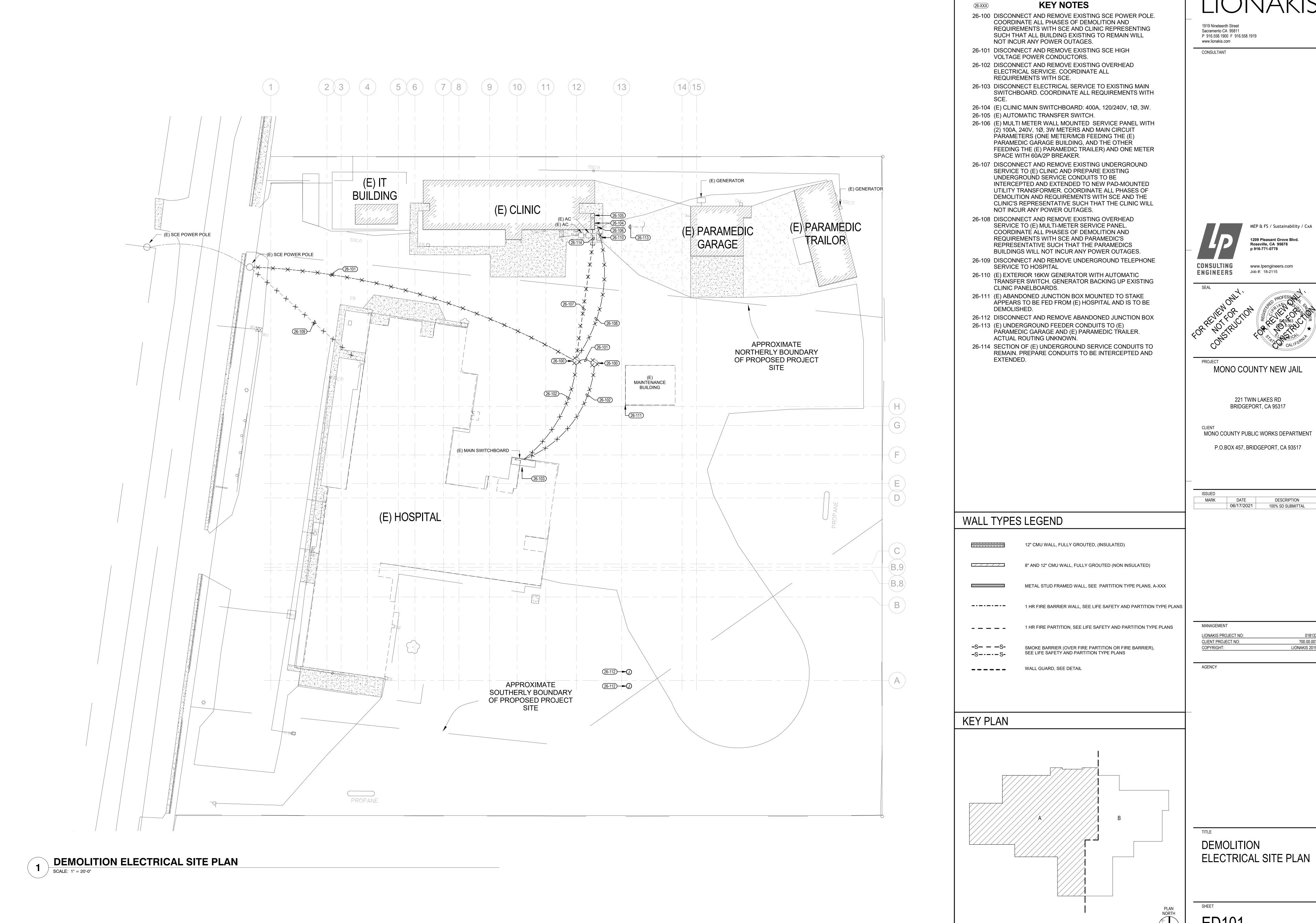
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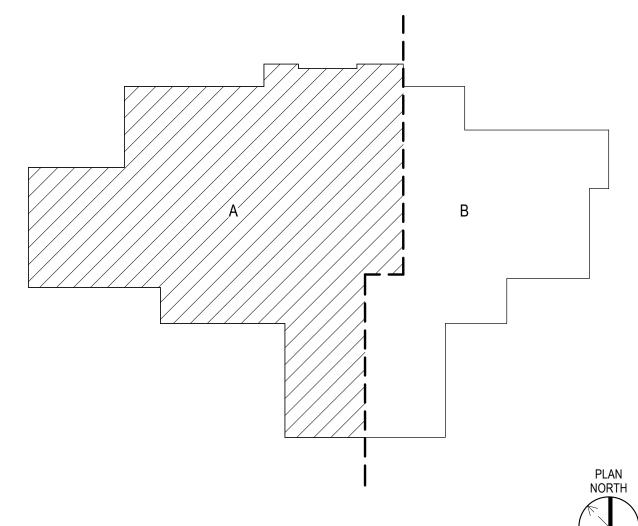
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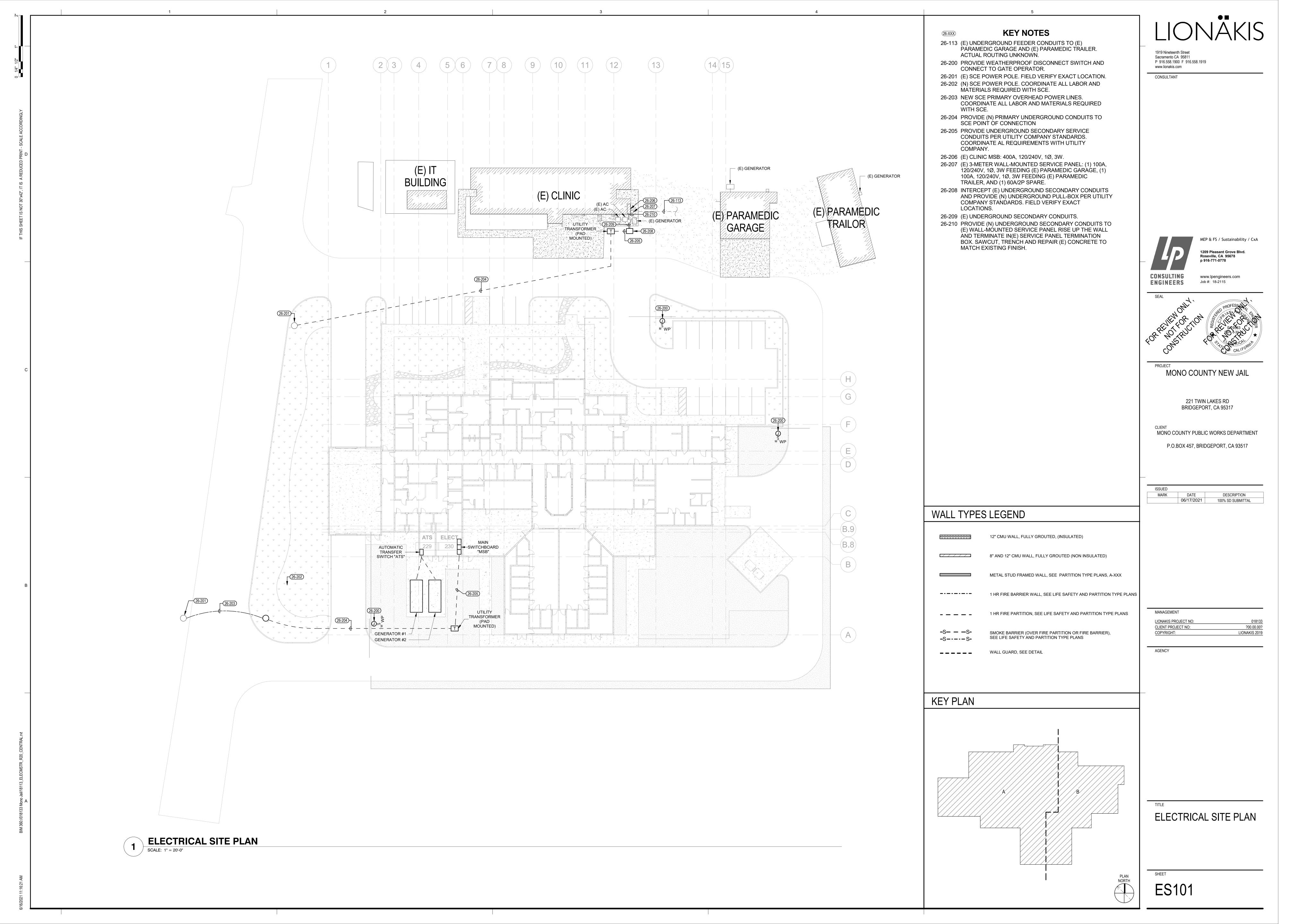
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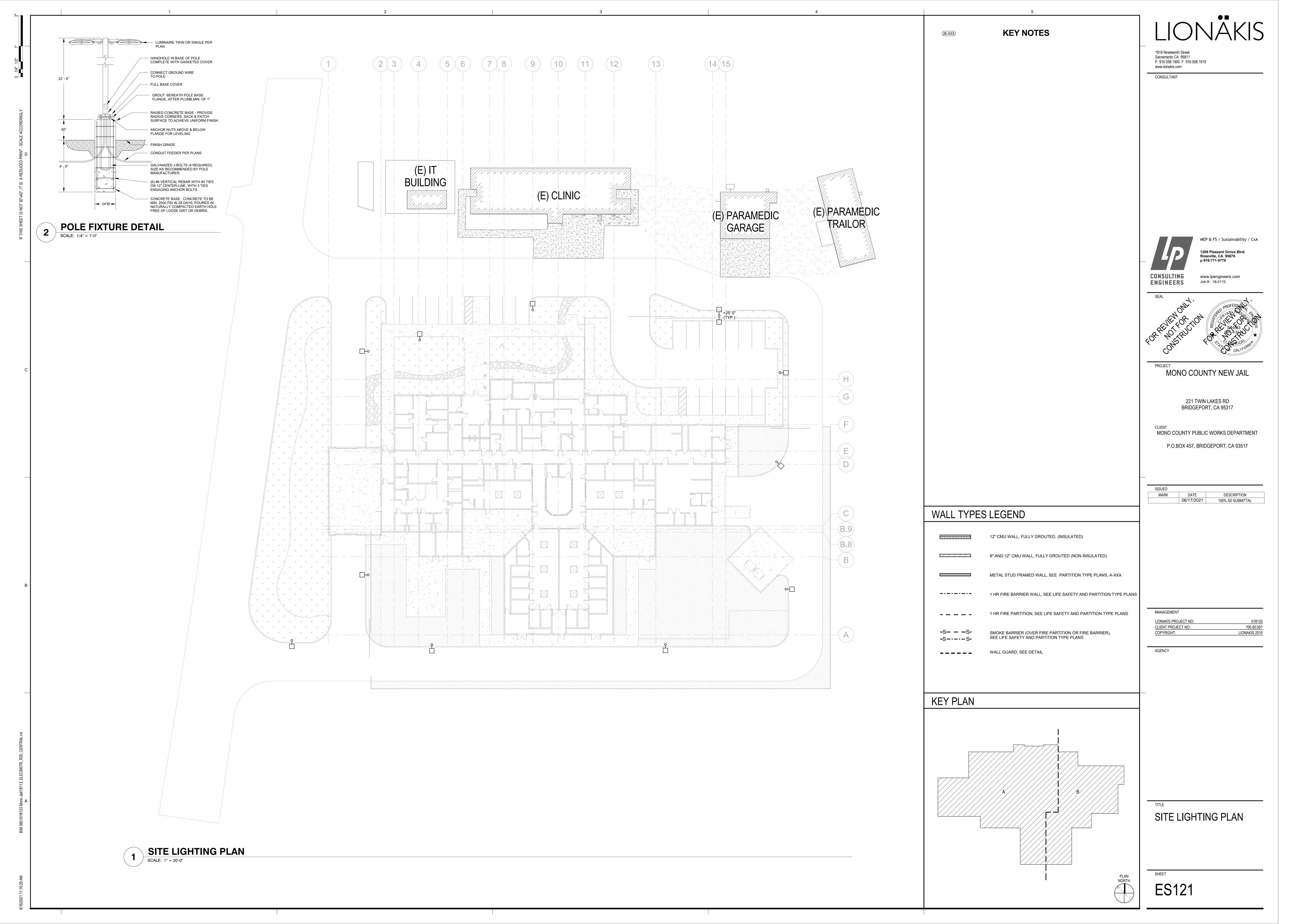


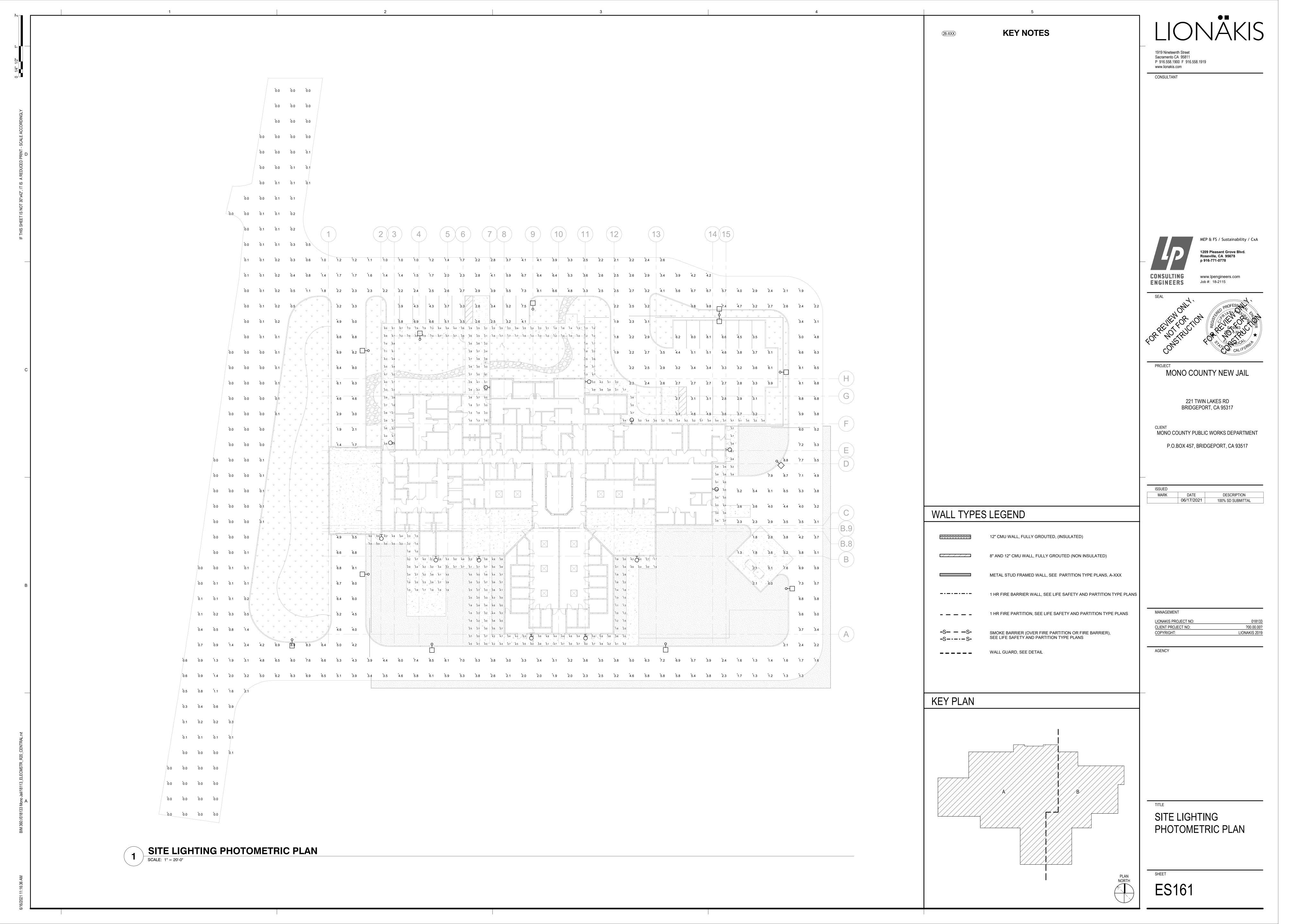
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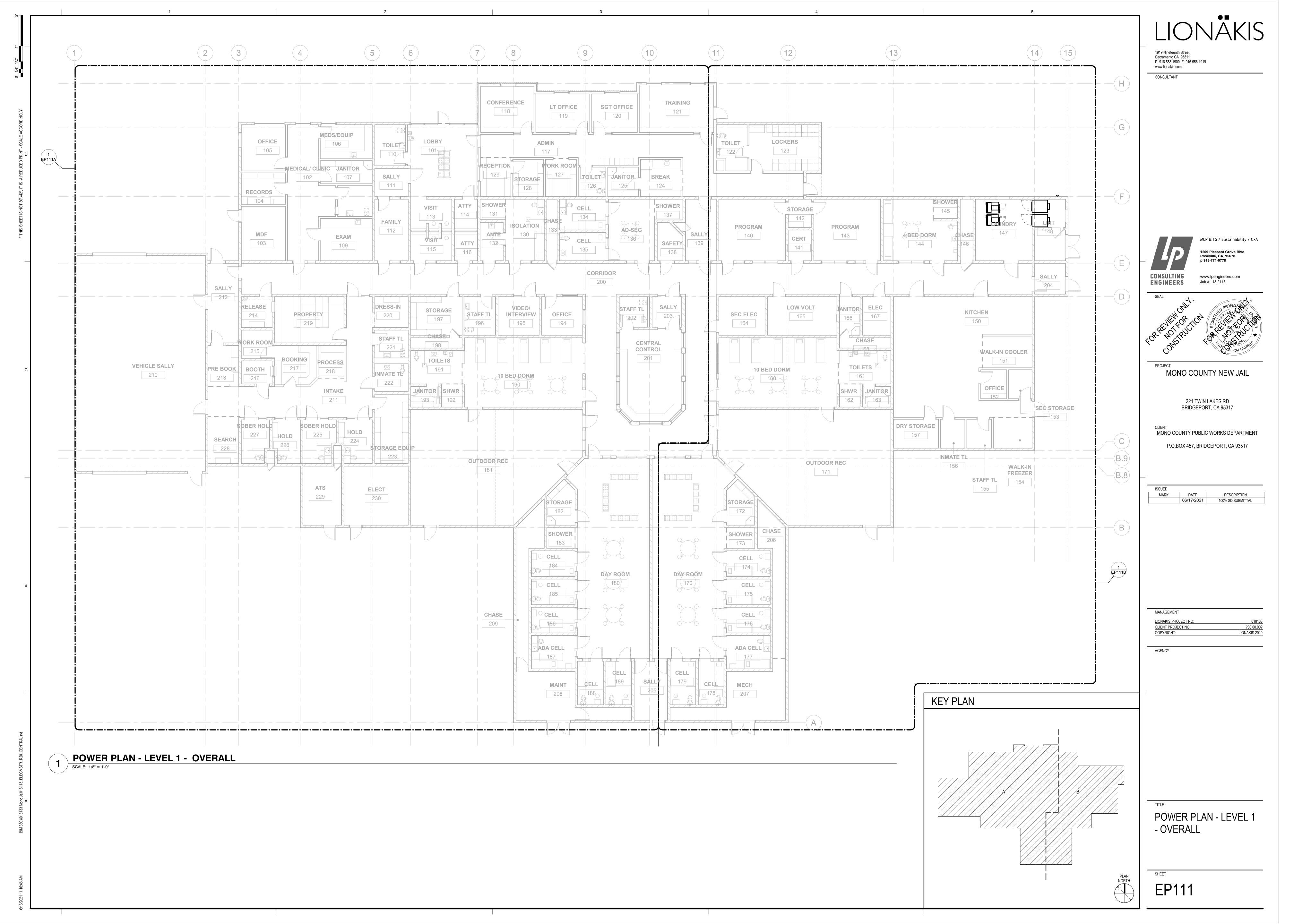


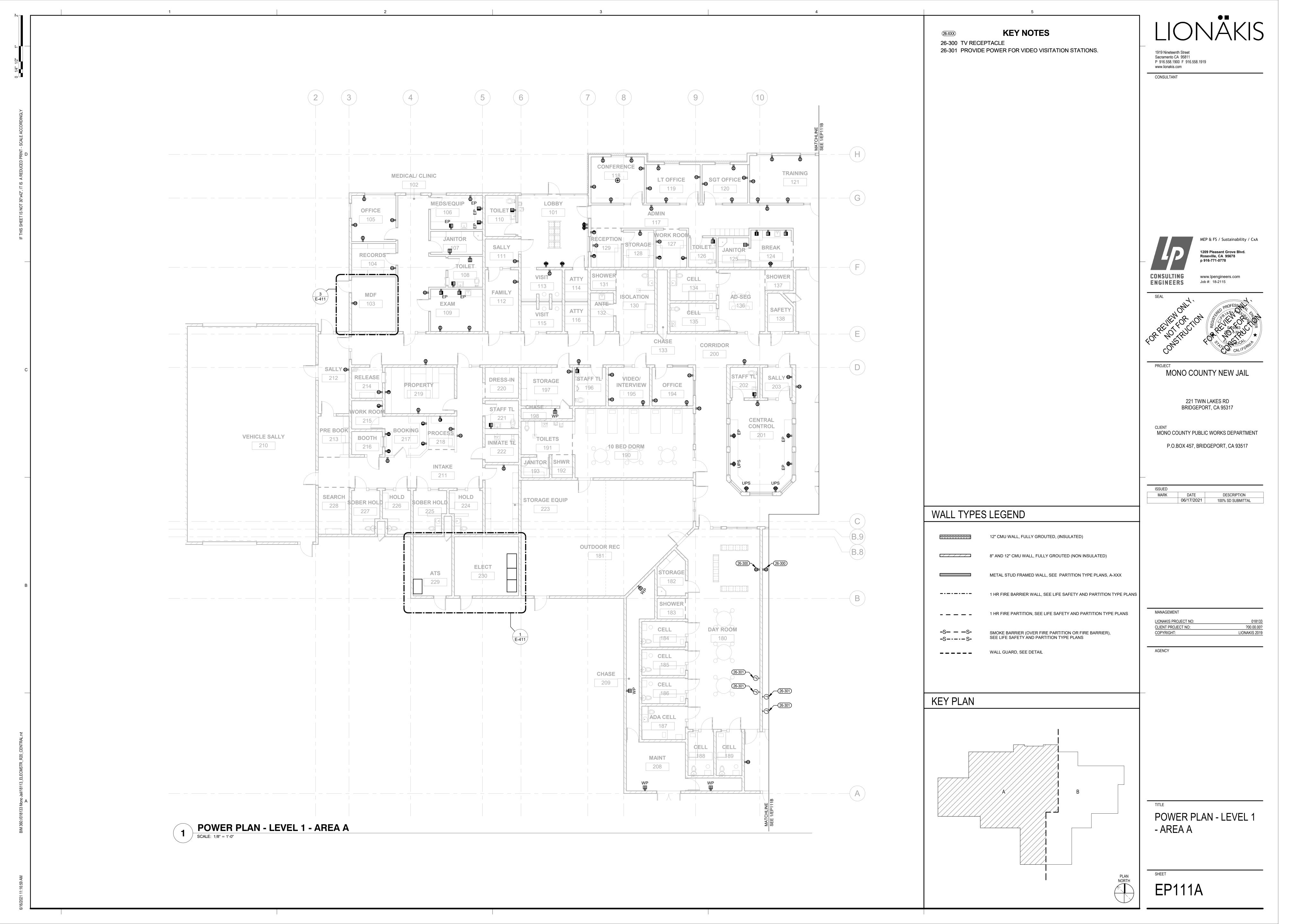
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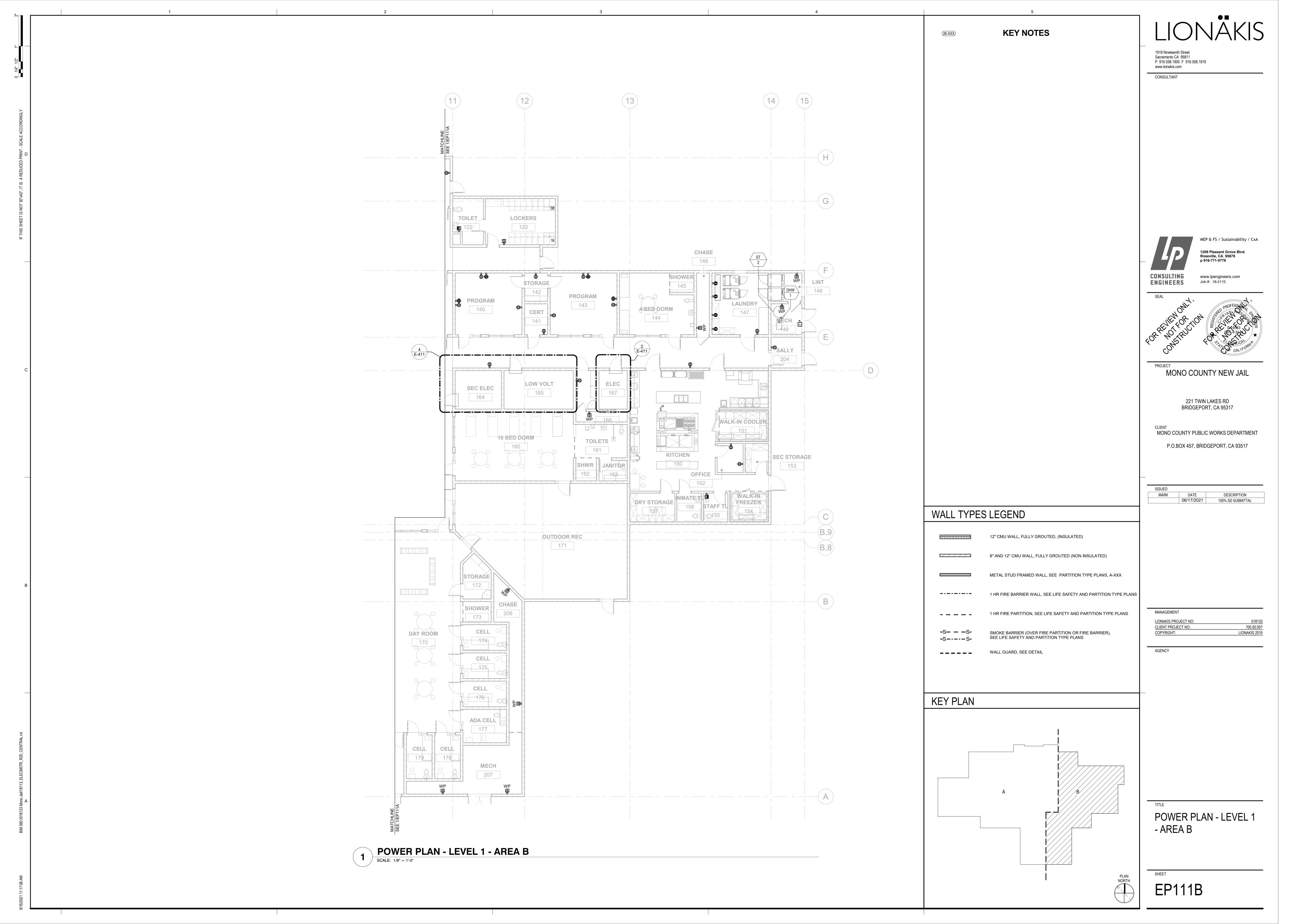


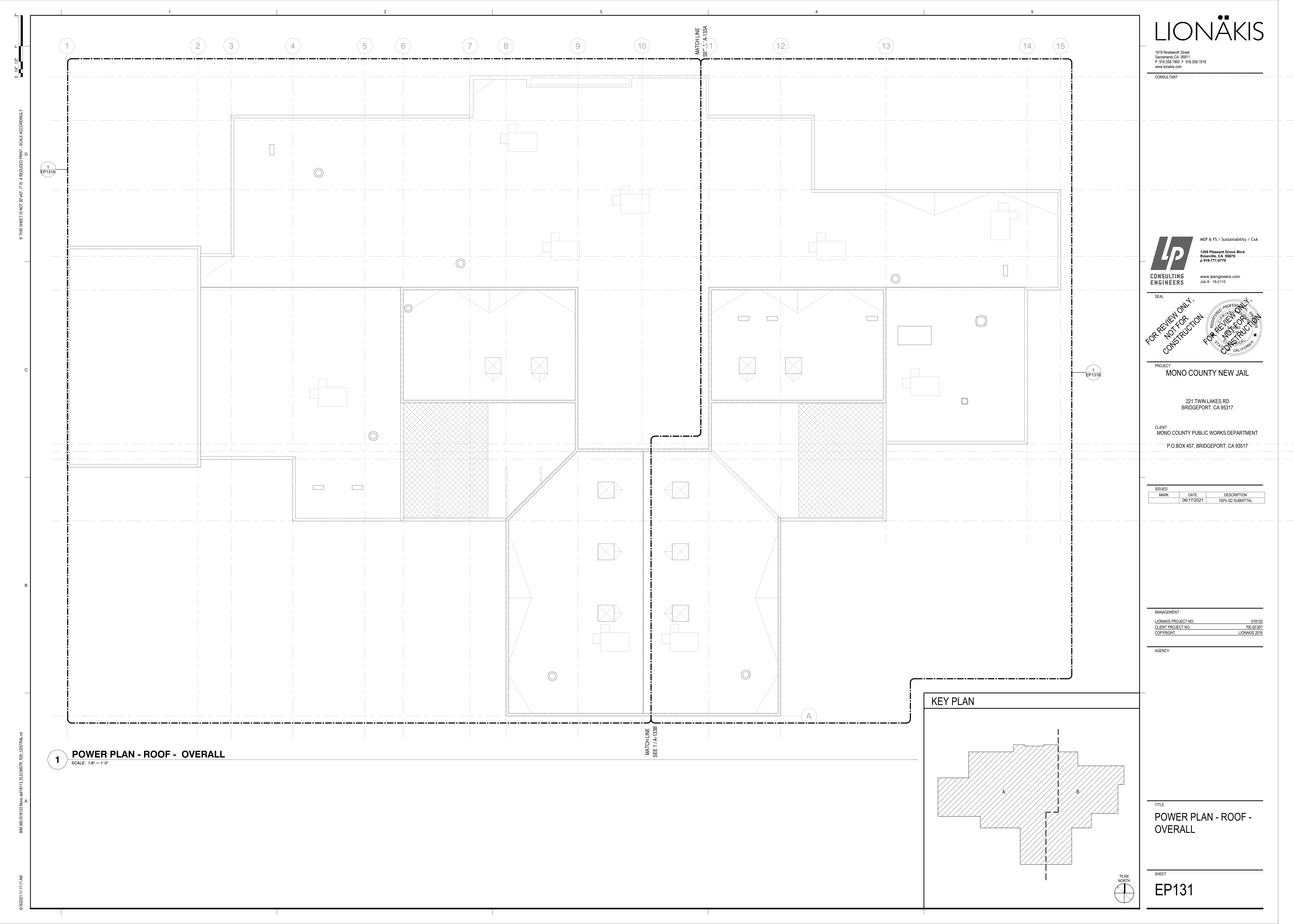


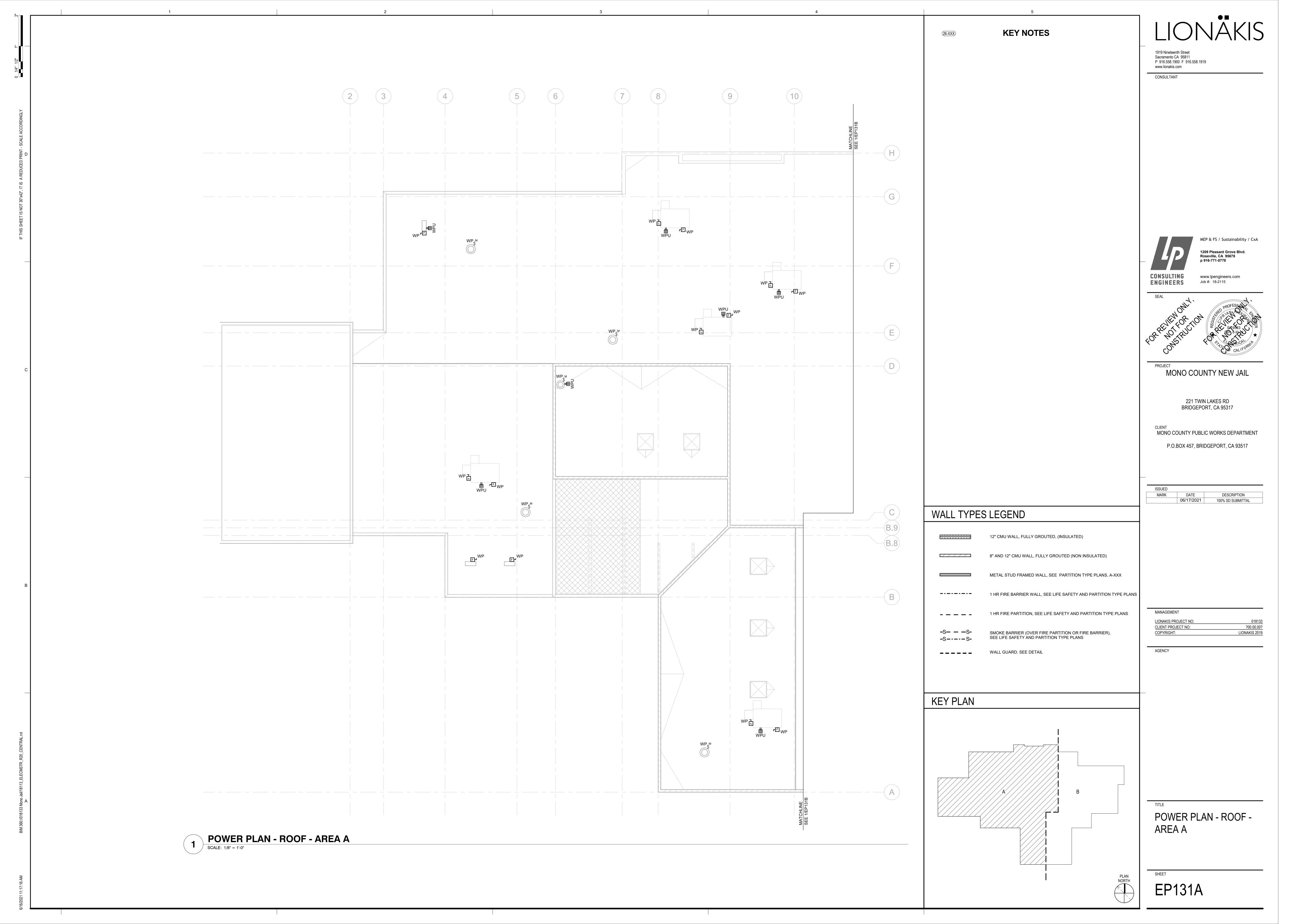


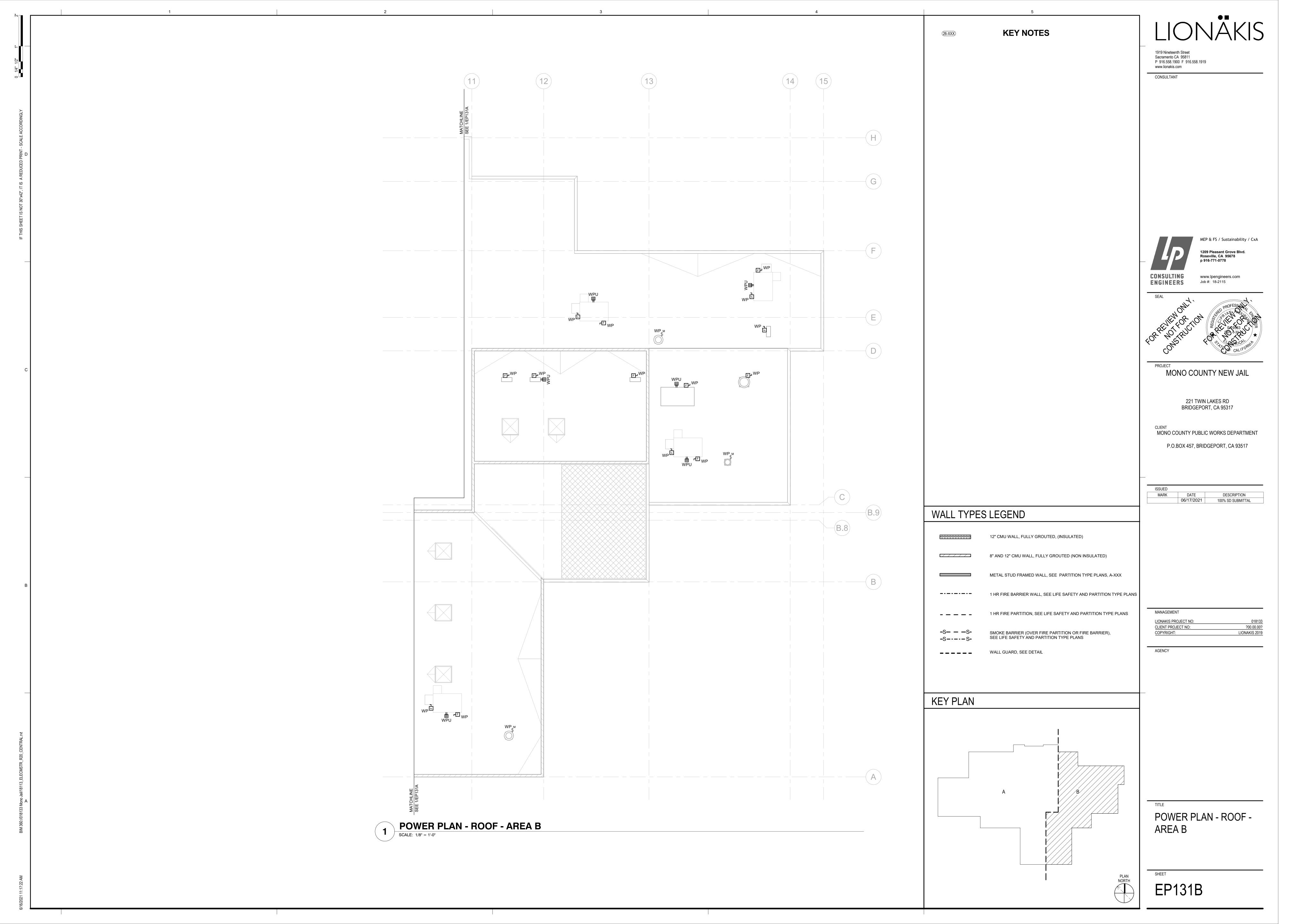


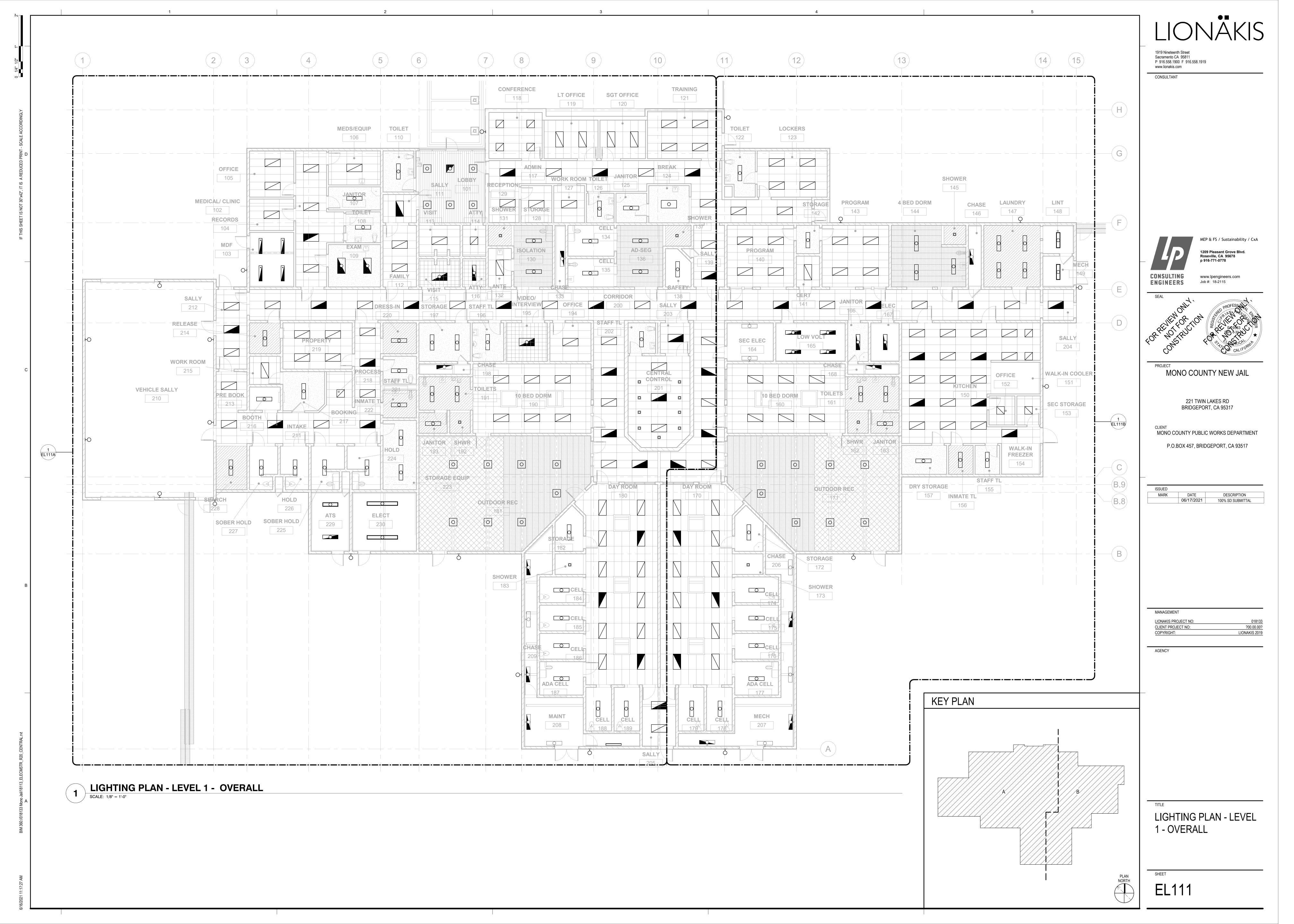


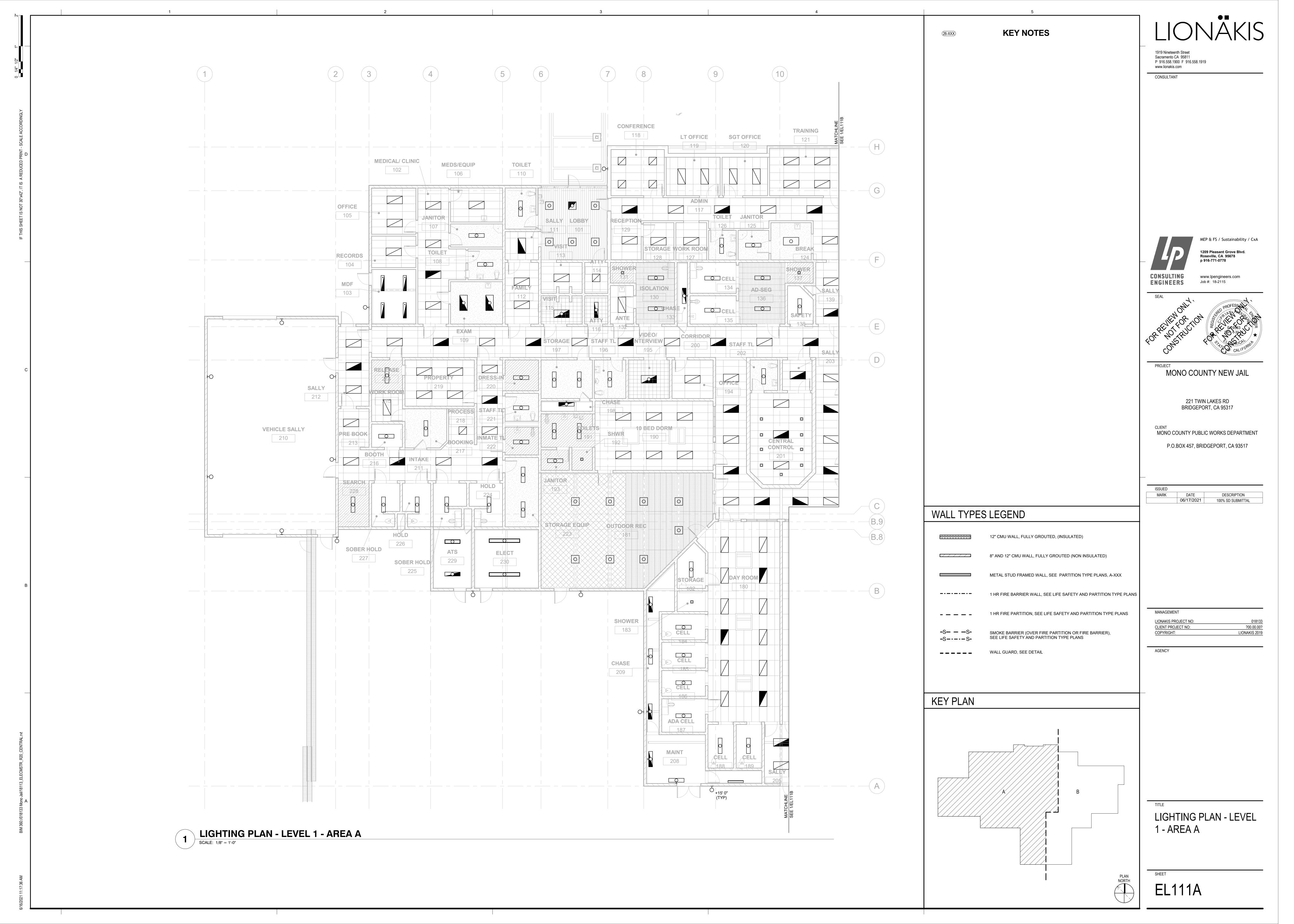




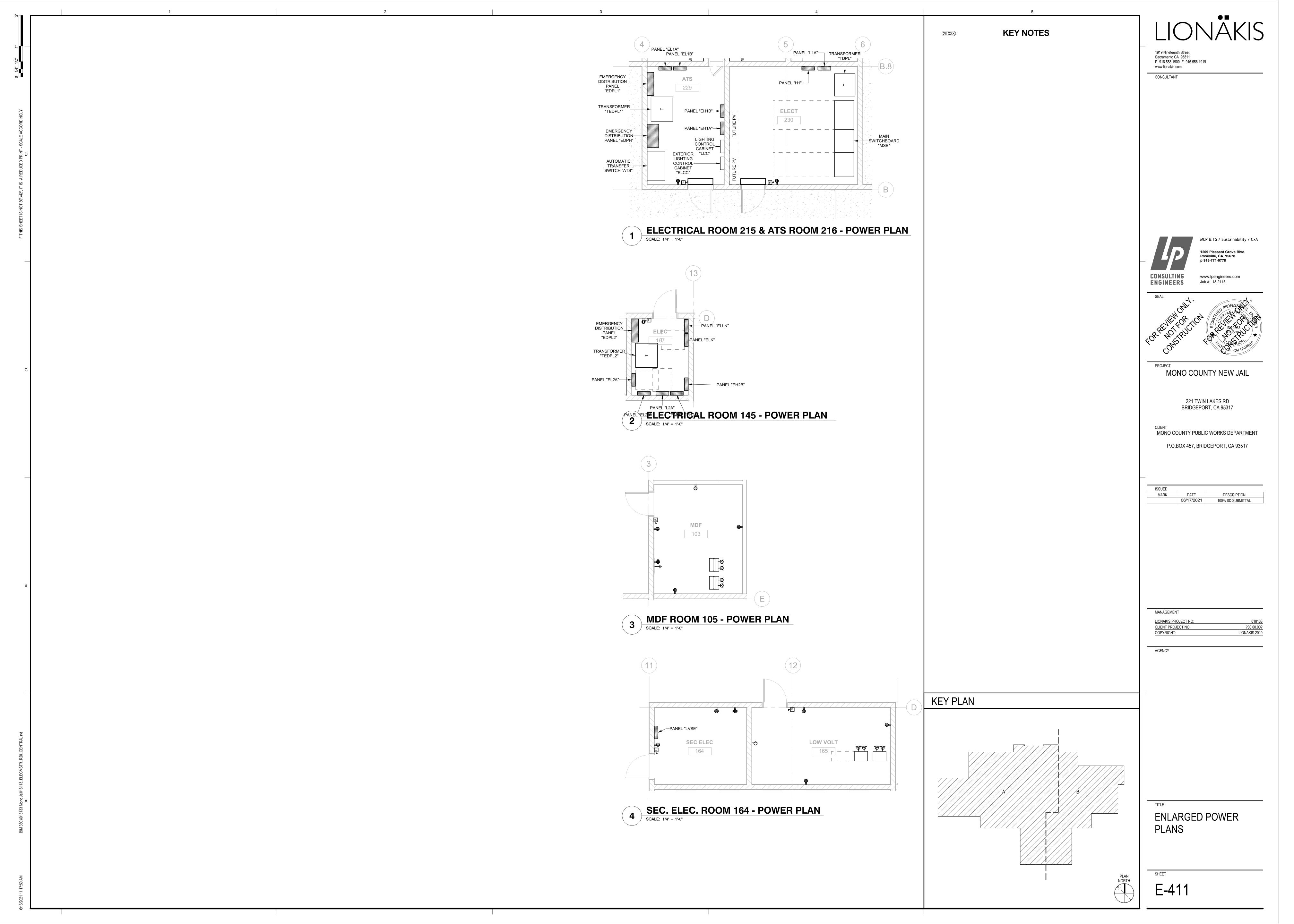


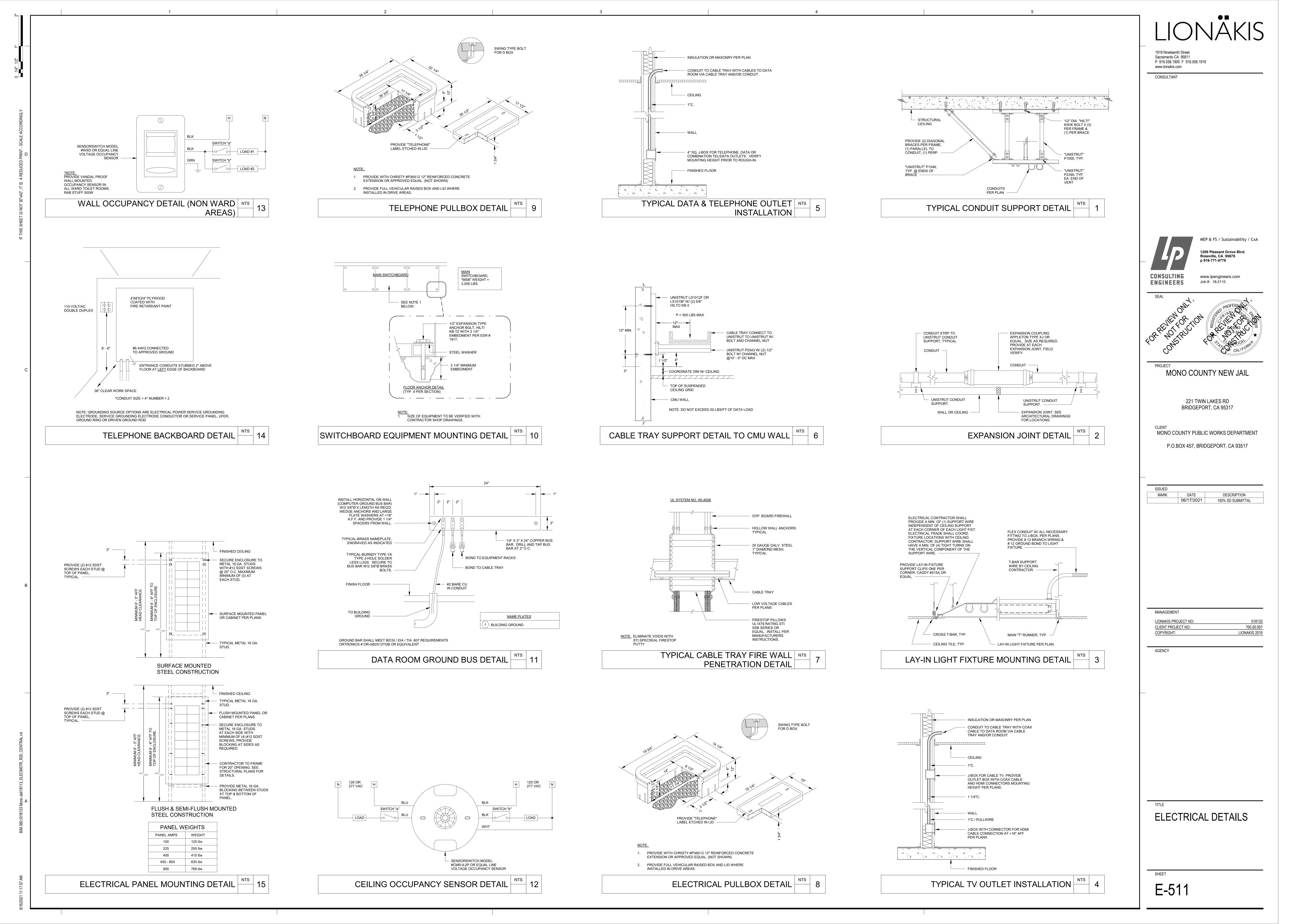










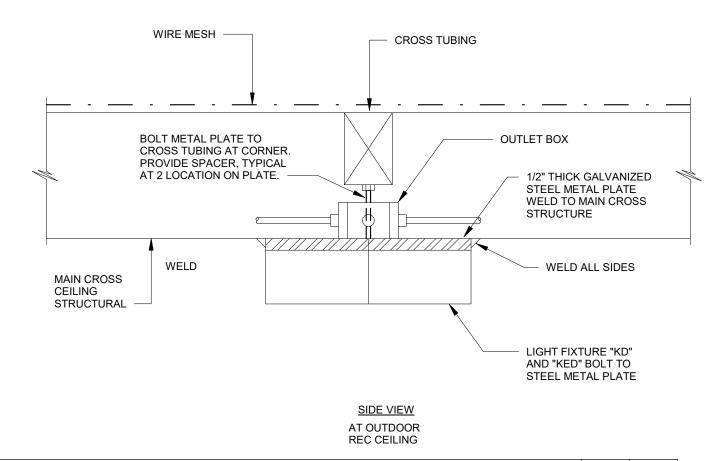




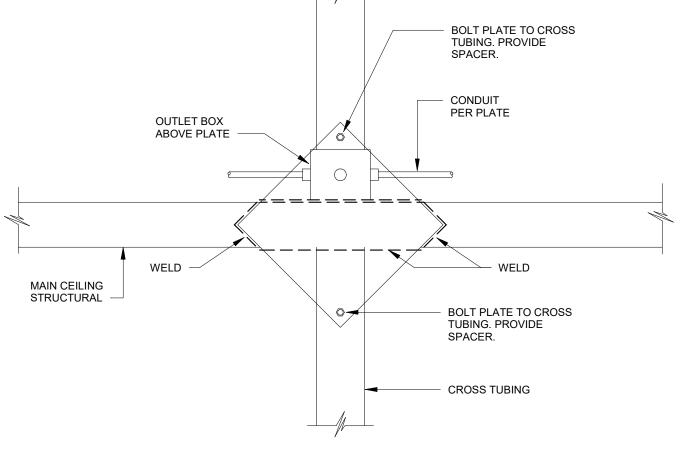


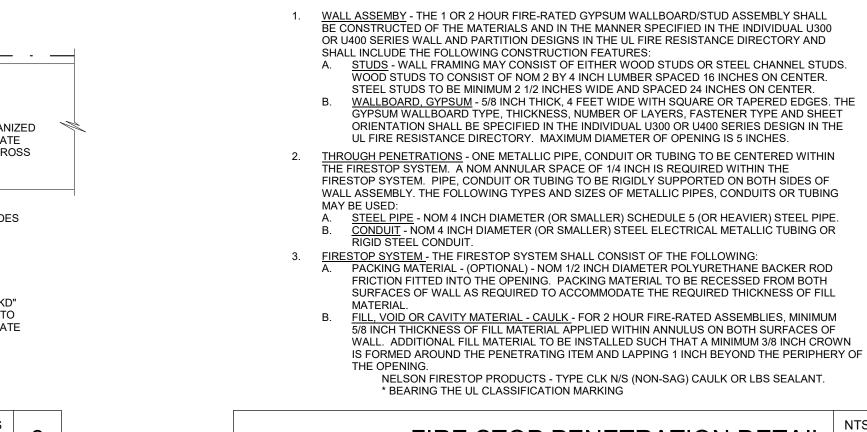


 BOLT PLATE TO CROSS TUBING. PROVIDE SPACER. PER PLATE OUTLET BOX ABOVE PLATE -----WELD -MAIN CEILING STRUCTURAL -BOLT PLATE TO CROSS TUBING. PROVIDE SPACER. - CROSS TUBING TOP VIEW

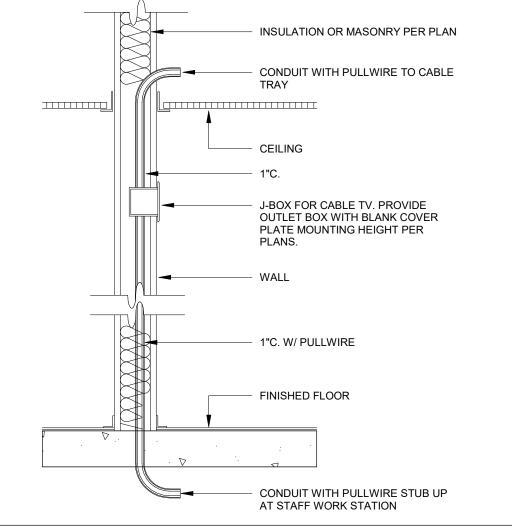


SURFACE FIXTURE MOUNTING DETAIL 3

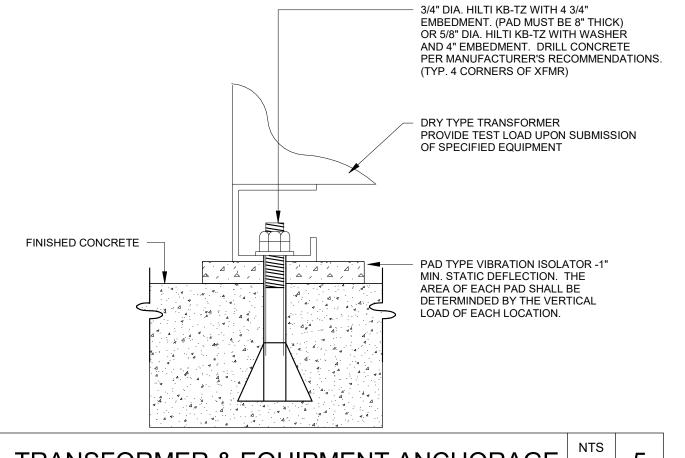




FIRE STOP PENETRATION DETAIL



TYPICAL DAYROOM TV OUTLET INSTALLATION 4



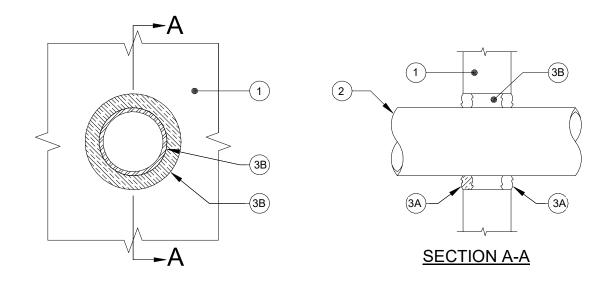
SYSTEM NO. C-AJ-1003 (FORMERLY SYSTEM NO. 83) F RATINGS - 3 HR T RATING - 0 OR 3/4 HR (SEE ITEM 3B)

NELSON FIRESTOP PRODUCTS - TYPE CLK N/S (NON-SAG) CAULK OR LBS SEALANT.
* BEARING THE UL CLASSIFICATION MARKING

SYSTEM NO. W-L-1030

(FORMERLY SYSTEM NO. 471)

F RATINGS - 1 AND 2 HR (SEE ITEM 1) T RATING - 0 HR



FLOOR OR WALL ASSEMBLY - MIN. 4 1/2 INCH THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL ASS BE CONSTRUCTED OF ANY UL CLASSIFIED SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS. CONCRETE BLOCKS*. MAX. DIAM OF OPENING IS 8 INCH. THROUGH PENETRATIONS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE CENTERED WITHIN

A. STEEL PIPE - NOM 6 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 6 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE. - NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR NOM 6 CONDUIT - NOM 4 IN. DIAM (UK SMALLER) IN. DIAM (OR SMALLER) STELL CONDUIT. FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

A. PACKING MATERIAL - MIN 6 PCF MINERAL WOOL BATT INSULATION OR LOOSE CERAMIC FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SUFACES OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. THE THICKNESS OF PACKING MATERIAL IS DEPENDENT UPON THE CONSTRUCTION DETAILS OF THE FIRESTOP SYSTEM AS TABULATED IN ITEM 3B. FILL, VOID OR CAVITY MATERIAL - PUTTY - FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP AND BOTTOM SURFACES OF FLOOR OR BOTH SURFACES OF THE WALL. THE T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON MAX DIAM OF OPENING, THICKNESS OF PACKING MATERIAL AND THICKNESS OF FILL MATERIAL AS TABULATED BELOW. MAX DIAM MIN PACKING OF OPENING MATERIAL MATERIAI THICKNESS, IN. THICKNESS, IN. 2 1/2 NELSON FIRESTOP PRODUCTS - TYPE FSP PUTTY *BEARING THE UL CLASSIFIED MARKING

FIRE STOP PENETRATION DETAIL_

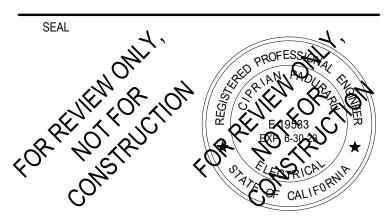
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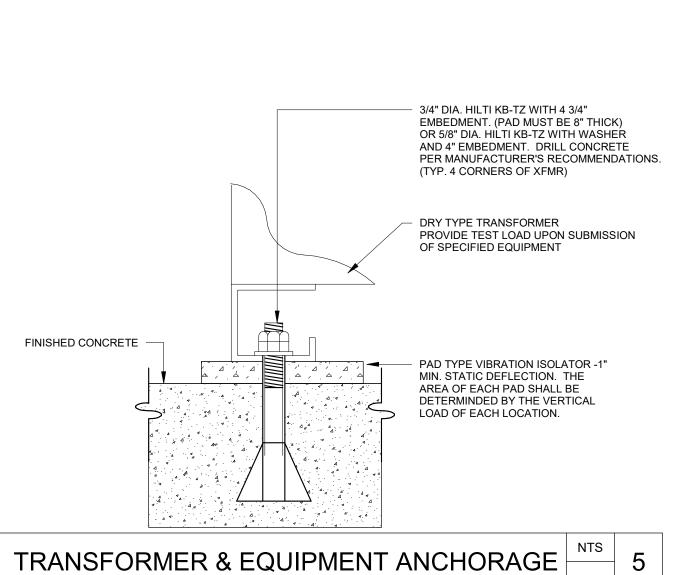
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TITLE ELECTRICAL DETAILS

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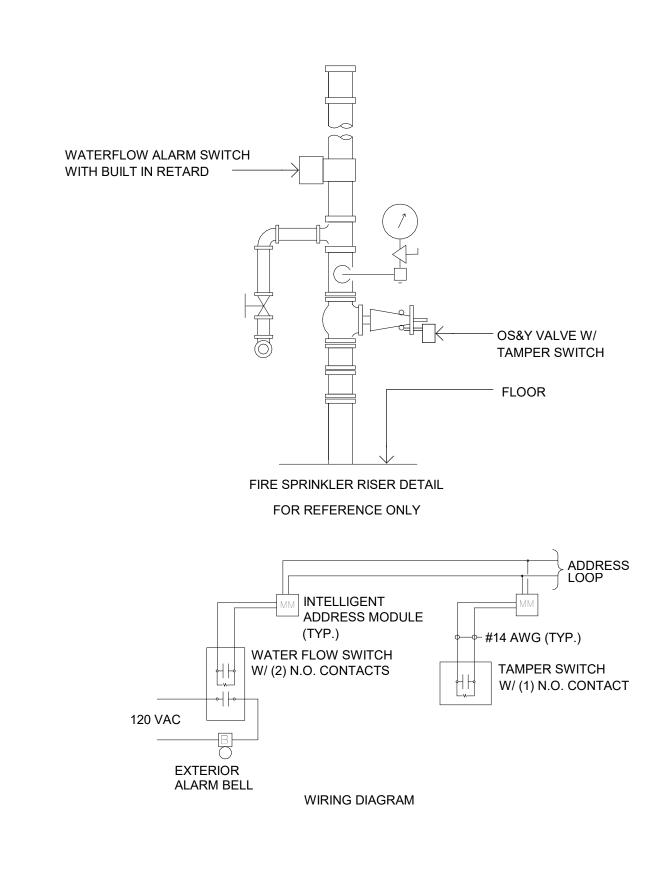
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ONE-LINE DIAGRAM

E-611





WATER FLOW AND TAMPER SWITCH

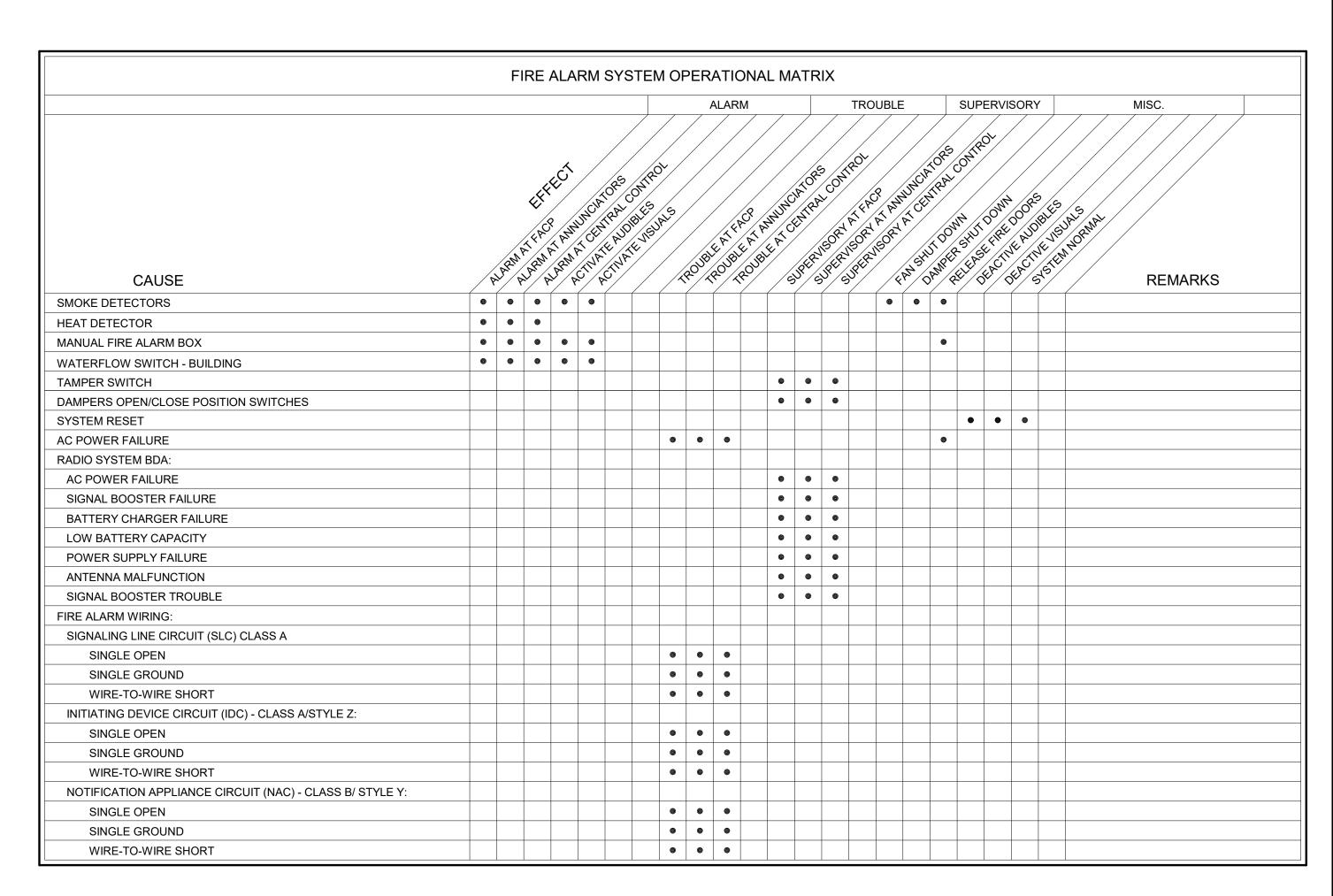
ONLY APPLIANCES. MOUNT IN CENTER OF THE ROOM. IF THE CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE IS NOT LOCATED AT THE CENTER OF THE ROOM, THE EFFECTIVE INTENSITY OR RETURN CEILING MOUNTED (CD) SHALL BE DETERMINED BY DOUBLING THE DIFFUSER SMOKE DETECTOR MEASURMENTS DISTANCE FROM THE APPLICATION OF THE SHOWN ARE TO THE FARTHEST WALL TO OBTAIN THE MAXIMUM ROOM —4". ✓ NEAREST EDGE OF THE DETECTOR 24" TO TOP OF LENS MIN. DISTANCE HANDICAP BEDROOM STROBE ACCEPTED HERE **NEVER HERE** WALL MOUNTED SMOKE/HEAT DETECTOR -_TO EXIT DOOR_ FINISHED WALL —► 5' MAX. 96" MAX. (NFPA) ABOVE FINISHED FLOOR SYNCHRONIZE MORE THAN 2 APPLIANCES IN ANY FIELD OF VIEW REF. 80" MIN MANUAL FIRE REF. 96" MAX. AFF ALARM BOX 80" (ADA) 80" MIN. (NFPA) 48" MAX.(ADA) 42" MIN./54" MAX.(NFPA) PHONE JACK FINISHED FLOOR

- 1. ALL DEVICES SHOWN MAY NOT BE USED ON THIS PROJECT.
- 2. NFPA 72 2016 EDITION, 18.4.8 LOCATION OF AUDIBLE NOTIFICATION APPLIANCES.

CEILING MOUNTED AUDIBLE/VISIBLE OR VISIBLE

- NFPA 72 2016 EDITION, 18.4.8.1 IF CEILING HEIGHTS ALLOW WALL- MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 2.30m (90in.) AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS THAN 150mm (6in.).
- NFPA 72 2016 EDITION, 18.4.8.3 IF COMBINATION AUDIBLE/VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5.
- NFPA 72 2016 EDITION, 18.5.5 WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT
- LESS THAN 2.0m (80 in.) AND NOT GREATER THAN 2.4m (96in.) ABOVE THE FINISHED FLOOR.
- INSTALL MIN 42", MAC 48" TO TOP OF ACTIVATING HANDLE OR LEVER. INSTALL FIRE ALARM PANEL/CABINETS 72", TO TOP OF PANEL/CABINET.

EQUIPMENT MOUNTING HEIGHTS



	FIRE A	LARM CABLE SCHEDULE	 E	
TYPE	DESCRIPTION	USE	MANUFACTURER CATALOG NO.	CSFM#
А	1 TWISTED 16/2 SOLID BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET	FIRE ALARM INITIATING CIRCUIT (SLC LOOP)	WEST PENN # D990	7161-0859:0101
В	1 TWISTED 12/2 SOLID BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET	FIRE ALARM NOTIFICATION CIRCUIT, INTERIOR	WEST PENN # 60995B	7161-0859:0101
С	1 TWISTED SHIELDED 18/2 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE ANNUNCIATOR DATA, INTERIOR	WEST PENN # D975	7161-0859:0101
D	1 TWISTED UNSHIELDED 14/2 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE ANNUNCIATOR POWER	WEST PENN # D994	7161-0859:0101
Е	1 TWISTED UNSHIELDED 18/4 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE TEST SWITCH	WEST PENN # D982	7161-0859:0101
F	2 FIBER MULTI-MODE FIBER OPTIC CABLE 62.5/125 MICRON WITH ST TYPE CONNECTOR	FIRE ALARM NETWORK	WEST PENN #M9B150	7161-0859:0101

FIRE ALARM GENERAL NOTES

- APPROVAL OF THE AUTOMATIC FIRE ALARM SYSTEM BY THE CALIFORNIA STATE FIRE MARSHAL IS DEFERRED. SHOP DRAWINGS FOR THIS SYSTEM MUST BE SUBMITTED TO THE CALIFORNIA STATE FIRE MARSHAL BY THE CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
- THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2013 CBC/CFC 907.2.6.3, 907.6.3(5), 907.6.5(2), 2013 NFPA72 AND CEC ARTICLE 760.
- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM COMPONENTS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF OF THE ENFORCING AGENCIES AND THE INSPECTOR OF RECORD. PROVIDE NFPA COMPLETION DOCUMENTATION.
- 4. ALL SIGNALING DEVICES SHALL HAVE THE SAME BASIC SOUND THROUGHOUT THE
- THIS IS A AUTOMATIC SYSTEM WITH AUTOMATIC INITIATION DEVICES INSTALLED (TO INCLUDE SMOKE & HEAT DETECTORS, DETECTORS FOR FIRE SMOKE DAMPER ACTIVATION, DUCT SMOKE DETECTORS FOR HVAC UNIT SHUTDOWN, SMOKE &
- FIRE ALARM SYSTEM INSTALLER SHALL PROVIDE ADDRESSES FOR ALL ADDRESSABLE DEVICES AND SCALED PLANS LOCATING ALL DEVICES AT BUILDING.
- POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A "RED" MARKING, IDENTIFIED AS " FIRE ALARM CIRCUIT CONTROL ", AND ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. THE LOCATION OF THE BRANCH CIRCUIT SHALL BE PERMANENTLY IDENTIFIED AT EACH FIRE ALARM CONTROL PANEL
- THE FIRE ALARM DEVICES, COMPONENTS AND EQUIPMENT SHOWN AND SPECIFIED THROUGHOUT THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS IS BASED ON EQUIPMENT SUPPLIED BY NOTIFIER WITH NO SUBSTITUTIONS.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY LOCATING ALL FIRE ALARM DEVICES. AUTOMATIC FIRE DETECTORS SHALL BE LAID OUT AND MEET THE REQUIREMENTS OF NFPA 72.
- 10. NO WORK ON THE FIRE ALARMS SYSTEM SHALL BEGIN WITHOUT APPROVED PLANS AND SIGNED PERMITS.
- 11. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE CALIFORNIA ELECTRICAL CODE, NFPA 70: 2016 EDITION WITH CALIFORNIA AMENDMENTS, STATE CODE(S), AND STATE FIRE MARSHAL REQUIREMENTS.
- 12. WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION.
- 13. CONDUIT KNOCKOUTS ARE PROVIDED ON ALL MANUFACTURERS PROVIDED BACK BOXES. DO NOT ENLARGE OR CHANGE LOCATION OF CONDUIT ENTRY WITHOUT PRIOR APPROVAL OF MANUFACTURER.
- 14. CONDUIT RUNS SHOWN DIAGRAMMATICALLY. EXACT LOCATION IS TO BE DETERMINED IN THE FIELD.
- 15. CONDUCTOR TERMINATIONS SHALL BE BRADY OR EQUALLY LABELED.
- 16. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. NO SPLICES OR INTERM CIRCUIT CONNECTIONS SHALL BE MADE UNLESS IN AND APPROVED JUNCTION BOX ON APPROVED TERMINAL BLOCKS.
- 17. DETECTOR AND AUDIBLE/VISUAL CIRCUIT POLARITY SHALL BE OBSERVED.
- 18. AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL BRANCHING IS PERMISSIBLE.
- 19. STANDARD CONTROL PANEL, TERMINAL BOXES ETC. MOUNTING IS 6'-0" FROM FINISHED FLOOR TO TOP OF DEVICE UNLESS OTHERWISE NOTED.
- WHERE DETECTORS ARE INSTALLED FOR SIGNAL INITIATION DURING CONSTRUCTION, THEY SHALL BE CLEANED AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM PER NFPA 72-17.7.1.11.1. AT AND ADDITIONAL
- COST TO THE OWNER. 21. WHERE DETECTORS ARE INSTALLED BUT NOT OPERATIONAL DURING CONSTRUCTION, THEY SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS, DUST. DIRT, AND DAMAGE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY,

NOT BE INSTALLED UNTIL ALL OTHER CONSTRUCTION TRADES HAVE COMPLETED

- OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM PER NFPA 72-17.7.1.11.2, AT NO ADDITIONAL COST TO THE OWNER. 22. WHERE DETECTION IS NOT REQUIRED DURING CONSTRUCTION, DETECTORS SHALL
- 23. DETECTORS ARE NOT TO BE LOCATED WITHIN 3'-0" OF ANY AIR SUPPLY DIFFUSER, IN ACCORDANCE WITH NFPA 72-A.17.7.4.1, AND SHALL NOT BE PLACED WHERE RETURN AIR MOVEMENT SHALL EXCEED THE MANUFACTURERS RECOMMENDATION AS TO AFFECT THE OPERATION OF THE SMOKE DETECTOR.
- 24. PENETRATIONS OF RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL USE AN APPROVED THROUGH PENETRATION FIRE STOP SYSTEM TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED CBC 714.
- 25. CONNECT FIRE ALARM PANELS TO AN EMERGENCY CIRCUITS.

CLEANUP PER NFPA 72-17.7.1.11.3.

- 26. ALL MANUAL FIRE ALARM BOXES SHALL BE INSTALLED SUCH THAT THE OPERABLE PART OF EACH FIRE ALARM BOX SHALL BE NOT LESS THAN 42 IN. (1.1 m) AND NOT MORE THAN 48 IN. (1.37 m) ABOVE FLOOR LEVEL. NFPA
- 27. ALL AUDIBLE/VISUAL DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" A.F.F. AS TO CONFORM TO NFPA 72-18.5.5.1 (SEE NFPA 72-18.4.8.1 FOR AUDIBLES ONLY).
- 28. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT SEPARATE FROM 120
- 29. REVIEW SEQUENCE OF SYSTEM OPERATION ON FIRE ALARM OPERATION.
- 30. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.
- 31. THE SECONDARY POWER SUPPLY SHALL CONSIST OF STORAGE BATTERIES THAT SHALL HAVE SUFFICIENT CAPACITY TO OPERATE THE SYSTEM UNDER QUIESCENT LOAD (NON-ALARM CONDITION) FOR A MINIMUM OF 24 HOURS AND AT THE END OF THAT PERIOD SHALL BE CAPABLE OF OPERATING ALL ALARM NOTIFICATION APPLIANCES FOR 5 MINUTES PER NFPA 72-10.6.7.2.1.
- 32. THESE FIRE ALARM DRAWINGS, EF-200 THRU EF-213, INCLUSIVE ARE INTENDED TO ASSIST THE CONTRACTOR IN DEVELOPING FIRE ALARM DESIGN AND SHOP DRAWINGS FOR SUBMITTAL TO THE CALIFORNIA STATE FIRE MARSHAL. THESE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT CONTAIN ALL DEVICES, COMPONENTS, WIRING, ETC. REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM DESIGN WITH ALL OTHER TRADES TO DEVELOPED A COMPLETE FIRE ALARM SYSTEM DESIGN INCLUDING DEVICES, COMPONENTS, WIRING, ETC. FOR SUBMITTAL TO THE CALIFORNIA STATE FIRE MARSHAL. OBTAIN CSFM APPROVAL PRIOR TO PROCEEDING WITH EQUIPMENT PROCUREMENT AND INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INTERCONNECTIVITY WITH OTHER SYSTEMS SUCH AS RADIO. ELEVATOR CONTROLS. ETC. AND INCLUDE THE REQUIRED INTERCONNECTIVITY INTO THE FIRE ALARM SYSTEM DESIGN.
- 33. SEE CIVIL DRAWINGS, DETAIL 1/C-440 FOR FIRE DEPARTMENT CHECK VALVE AND POST INDICATOR VALVE REQUIREMENTS. CONNECT TO FIRE ALARM SYSTEM FOR
- 34. HVAC UNIT SHUT DOWN IS TO BE PROVIDED BY THE FIRE ALARM SYSTEM VIA TOTAL COVERAGE PROTECTION PROVIDED BY TOTAL AREA SMOKE DETECTION.
- 35. PROVIDE DEDICATED BDA ANNUNCIATOR PANEL INDEPENDENT FROM FIRE ALARM SYSTEM PER NFPA-72 AND 1221. LOCATE ANNUNCIATOR PANEL AS DIRECTED BY

	FIRE ALARM SYMBOL LEGEND
SYM	AND EQUIPMENT SCHEDULE DESCRIPTION
FAWS	FIRE ALARM WORKSTATION FIRE ALARM CPU, GRAPHIC DISPLAY MONITOR AND PRINTER
FACP	FIRE ALARM CONTROL PANEL, "FACP" ADDRESSABLE SYSTEM. PROVIDE WITH ONE (1) SLC-2 MODULE FOR ADDITIONAL DEVICES. PROVIDE WITH TWO (2) 12 VDC 18.0 Ah BATTERIES. PROVIDE ALL COMPONENTS IN SURFACE WALL MOUNTED ENCLOSURE.
FAPS	FIRE ALARM REMOTE POWER SUPPLY
FAA	FIRE ALARM REMOTE ANNUNCIATOR. 160 CHARACTER LED DISPLAY FOR POINT STATUS. SURFACE OR RECESSED MOUNT PER PLAN +60" AFF.
2	PHOTOELECTRIC SMOKE DETECTOR, ADDRESSABLE. CEILING MOUNTED WITH BASE INCLUDED.
2 WG	PHOTOELECTRIC SMOKE DETECTOR, ADDRESSABLE. CEILING MOUNTED WITH GUARD AND BASE INCLUDED. STI#9601 WIRE GUARD
	HEAT DETECTOR FIXED TEMPERATURE 135° WITH RATE-OF-RISE. CEILING SURFACE MOUNTED. PROVIDE WITH RELAY BASE.
* K	MANUAL FIRE ALARM BOX, DUAL-ACTION. PROVIDE WITH MONITOR MODULE "AIM" FOR ADDRESS. NOTIFIER * K INDICATES KEY OPERATED INSTITUTIONAL DEVICE.
WF	WATER FLOW SWITCH, N.I.E.S. PROVIDE WITH "AIM" MODULE. CONNECT AS REQUIRED. FIELD VERIFY
TS	DEVICE TYPE AND CONNECTION REQUIREMENTS VALVE TAMPER SWITCH, N.I.E.S. PROVIDE WITH "AIM" MODULE. CONNECT AS REQUIRED. FIELD VERIFY DEVICE TYPE AND CONNECTION REQUIREMENTS
PIV	POST INDICATOR SWITCH, N.I.E.S. PROVIDE WITH "AIM". CONNECT AS REQUIRED
AIM	ADDRESSIBLE MONITOR MODULE. FLUSH WALL MOUNT OR AT SURFACE ABOVE ACCESSIBLE CEILING ADJACENT TO CONNECTIONS.
ARM	FIRE ALARM RELAY MODULE. FLUSH WALL MOUNT OR AT SURFACE ABOVE ACCESSIBLE CEILING ADJACENT TO CONNECTIONS.
(Z)=	DUCT SMOKE DETECTOR. WITH RELAY. COORDINATE EXACT LOCATION OF DEVICE & LENGTH OF SAMPLING TUBE REQUIRED WITH EXISTING MECHANICAL UNIT. DETECTOR RELAY SHALL ACTIVATE FIRE DAMPER. PROVIDE RELAY AND SAMPLING TUBE WITH SMOKE DETECTOR.
FSD	FIRE SMOKE DAMPER WITH DUCT SMOKE, N.I.E.S. PROVIDE 120V POWER. CONNECT DUCT SMOKE DETECTOR (BY E.C.) FOR ACTIVATION CIRCUIT PER PLANS. CONNECT DAMPER ACTUATION CIRCUIT FROM "AIM" DEVICE TO DAMPER CONTROL RELAY. COORDINATE EXACT LOCATIONS AND ALL REQUIREMENTS WITH EXISTING CONDITIONS. CONFIRM EXACT NUMBER ON ALL PLANS. CONNECT OPEN AND CLOSED END LIMIT SWITCHES TO FACP FOR POSITION MONITORING.
H	FIRE ALARM HORN. WALL MOUNTED.
15cd 30cd 75cd 110cd	AUDIO/VISUAL HORN/STROBE FIRE ALARM. WALL MOUNTED. CANDELLA PER PLAN.
15cd 30cd 75cd 110cd	VISUAL STROBE FIRE ALARM. WALL MOUNTED. CANDELLA PER PLAN.
15cd CLG 30cd 75cd 110cd	VISUAL STROBE FIRE ALARM. CEILING MOUNTED. CANDELLA PER PLAN.
EOLR	FIRE ALARM CABLE PROVIDE IN 3/4"C., UNO. SEE FIRE ALARM CABLE SCHEDULE, END OF LINE RESISTOR
Re	
ВА	RE ALARM SYSTEM EQUIPMENT AND DEVICES SHOWN ARE SED ON EQUIPMENT MANUFACTURED BY SILENT KNIGHT.
НС	OR MOUNTING HEIGHTS OF MANUAL PULL STATIONS, HORNS, DRN/STROBES AND STROBES SEE DETAIL 1/E-002.
DE	OVIDE VANDAL PROOF SECURITY COVERS FOR ALL SMOKE TECTORS INSTALLED IN INMATE AREAS NOTED BY "WG" JACENT TO SMOKE DETECTOR SYMBOL.
SHEET N	FIRE ALARM SHEET INDEX
SHEET N EFO	01 FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES

CONSULTANT

Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

> MEP & FS / Sustainability / CxA 1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

CONSULTING www.lpengineers.com **ENGINEERS** Job #: 18-2115

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

MARK DESCRIPTION 06/17/2021 100% SD SUBMITTAL

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DEFERRED SUBMITTAL NOTES

FIRE ALARM PLAN - LEVEL 1 OVERALL

FIRE ALARM PLAN - LEVEL 1 - AREA A

FIRE ALARM PLAN - LEVEL 1 - AREA B

FIRE ALARM RISER DIAGRAMS

FIRE ALARM SITE PLAN

EF111A

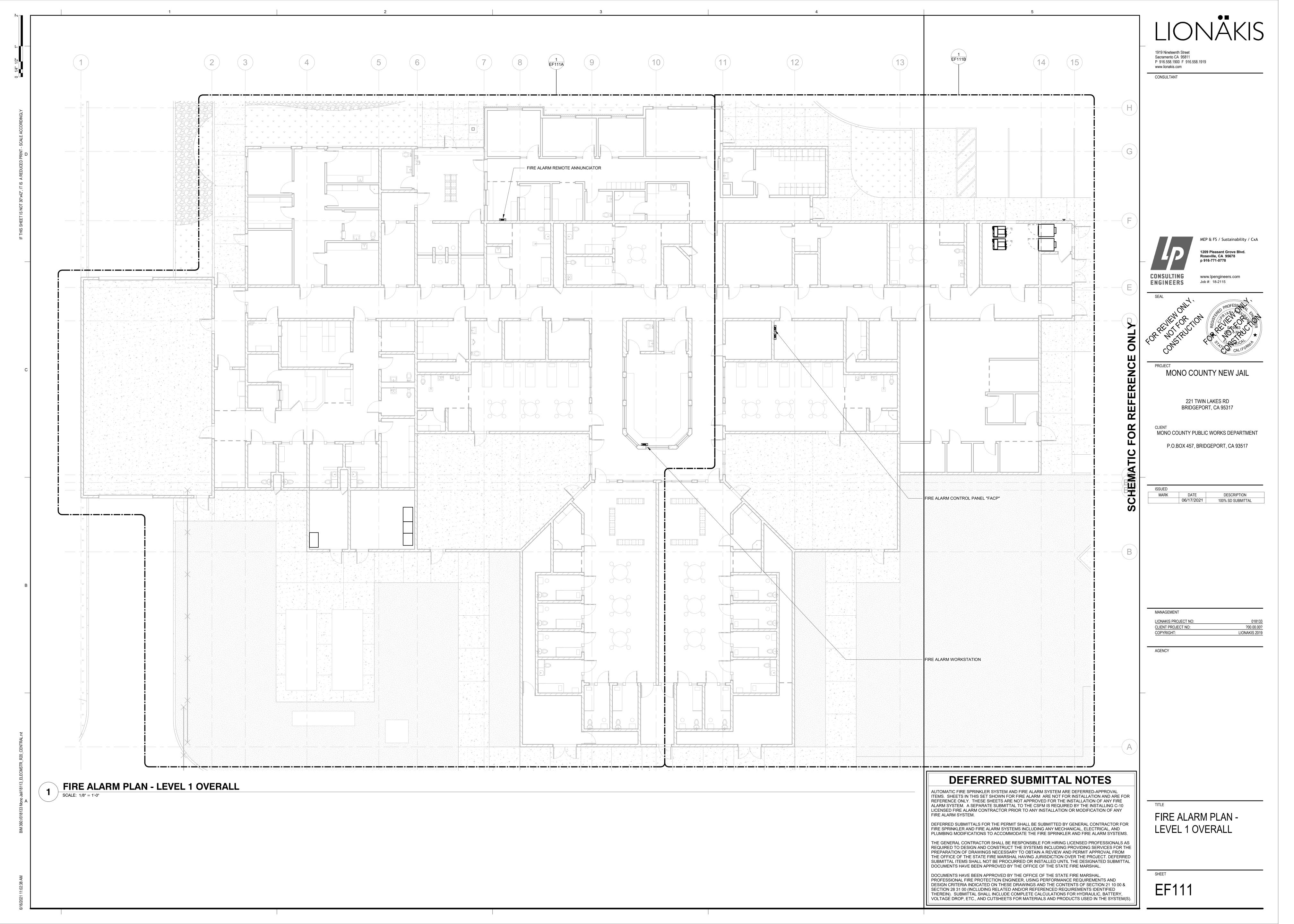
AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DEFERRED-APPROVAL ITEMS. SHEETS IN THIS SET SHOWN FOR FIRE ALARM ARE NOT FOR INSTALLATION AND ARE FOR REFERENCE ONLY. THESE SHEETS ARE NOT APPROVED FOR THE INSTALLATION OF ANY FIRE ALARM SYSTEM. A SEPARATE SUBMITTAL TO THE CSFM IS REQUIRED BY THE INSTALLING C-10 LICENSED FIRE ALARM CONTRACTOR PRIOR TO ANY INSTALLATION OR MODIFICATION OF ANY FIRE ALARM SYSTEM.

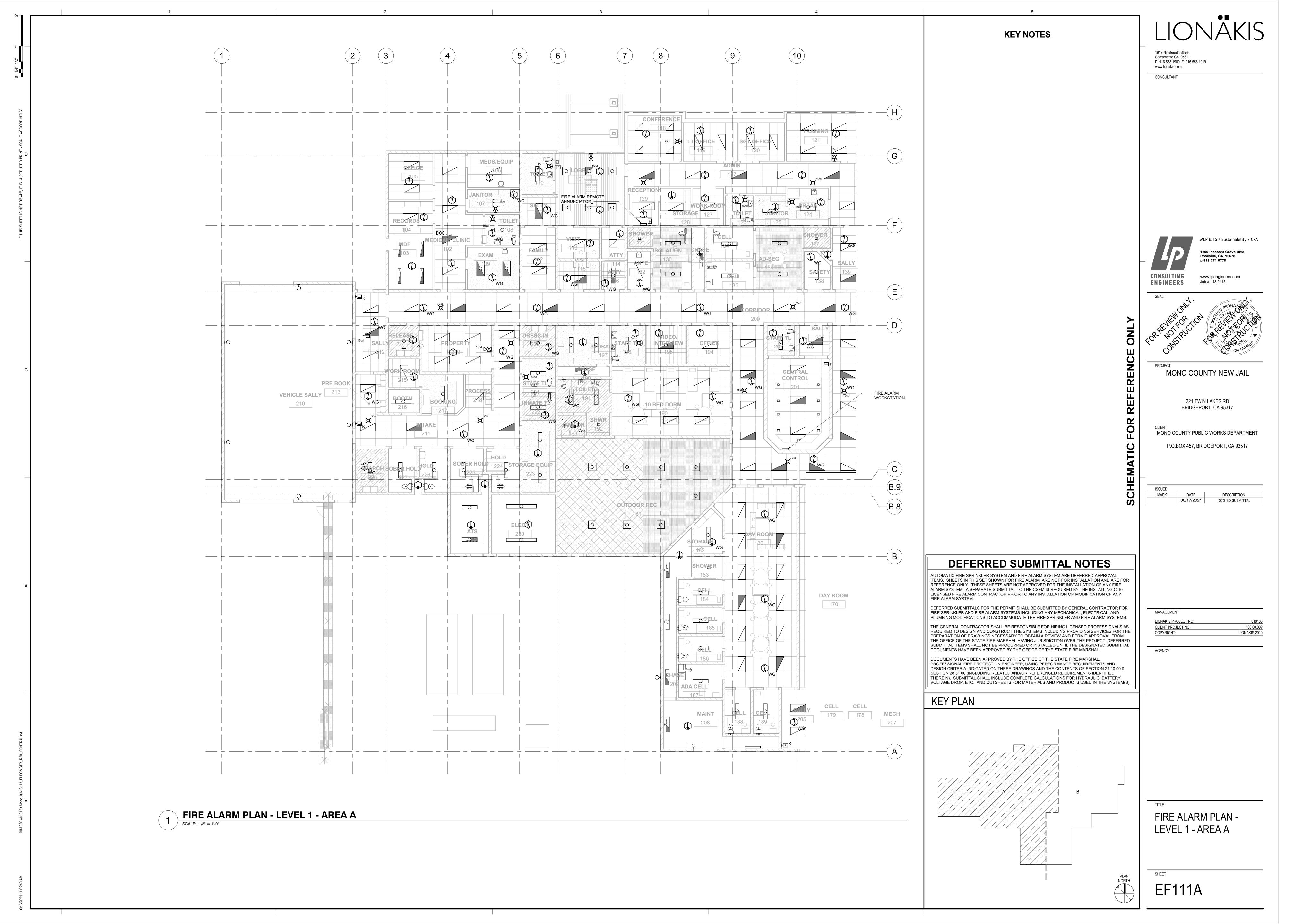
DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER AND FIRE ALARM SYSTEMS.

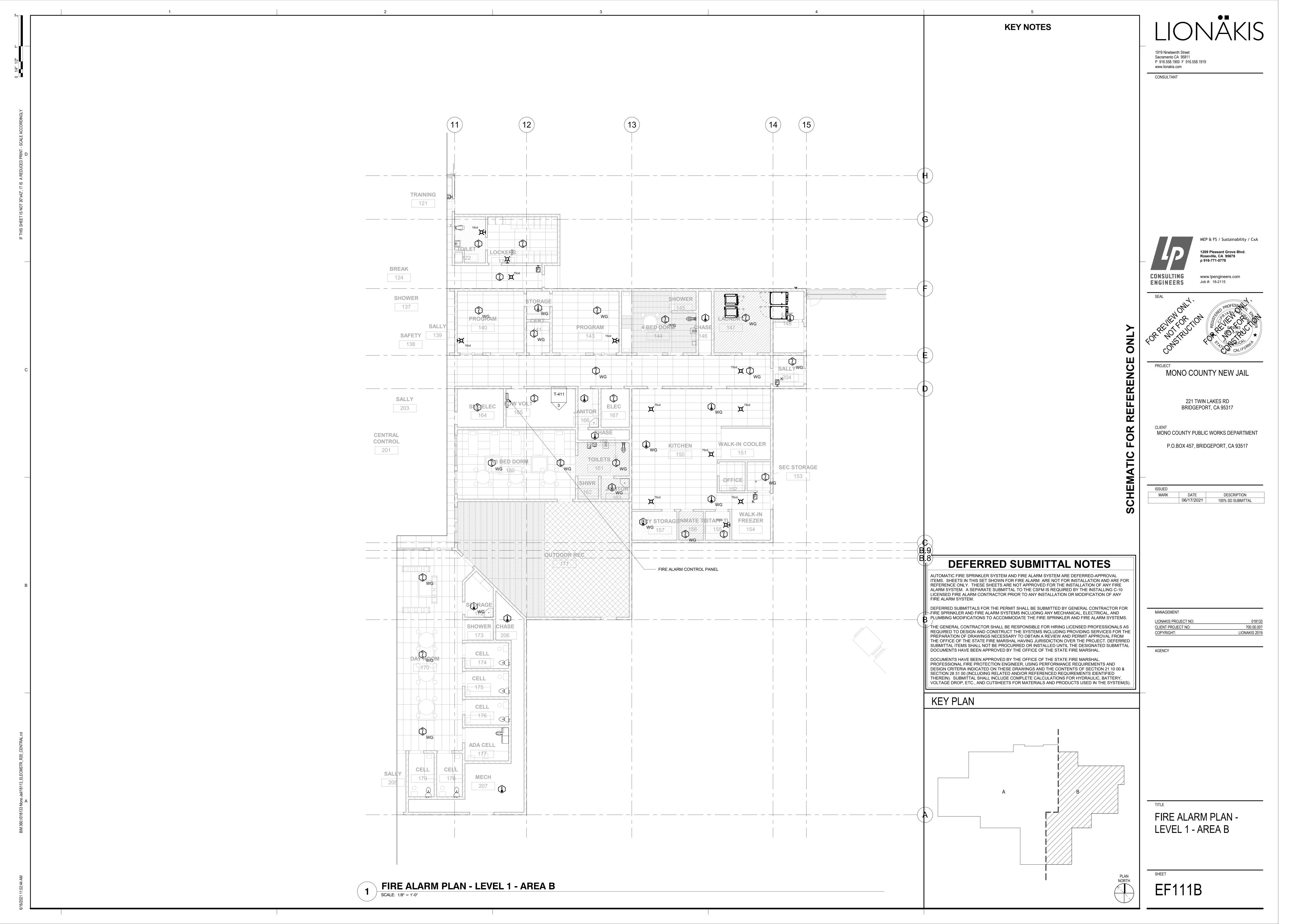
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL FROM THE OFFICE OF THE STATE FIRE MARSHAL HAVING JURISDICTION OVER THE PROJECT. DEFERRED SUBMITTAL ITEMS SHALL NOT BE PROCURRED OR INSTALLED UNTIL THE DESIGNATED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL.

DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL. PROFESSIONAL FIRE PROTECTION ENGINEER. USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND THE CONTENTS OF SECTION 21 10 00 & SECTION 28 31 00 (INCLUDING RELATED AND/OR REFERENCED REQUIREMENTS IDENTIFIED THEREIN). SUBMITTAL SHALL INCLUDE COMPLETE CALCULATIONS FOR HYDRAULIC, BATTERY, VOLTAGE DROP, ETC., AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM(S). TITLE FIRE ALARM SHEET INDEX, ABBREVIATIONS,

AND NOTES







A. TECHNOLOGY GENERAL NOTES:

- 1. ALL STRUCTURED CABLING SYSTEM (SCS) & LOW VOLTAGE (LV) CABLING USED THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED IN THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THE OLLOWING ANSI/TIA-568-C ANSI/TIA-569-D ANSI/TIA-606-B ANSI/TIA-607-B BICSLTDMM (CURRENT VERSION) CF ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 760, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830. THE SCS & TECHNOLOGY SYSTEM(S) MUST MEET ALL LOCAL AND OTHER
- 2. ALL SCS & LV CABLING SHALL BEAR UL LISTED TYPE CMP (PLENUM RATED) AND/OR CM/G (GENERAL PURPOSE) AND/OR CMR (RISER RATED) ALL FIBER OPTIC CABLING SHALL BEAR OFNP (PLENUM RATED) AND/OR OFNR (RISER RATED). AND/OR OFN/G (GENERAL PURPOSE). THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATELY RATED CABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.
- 3. ALL INSTALLATION SHALL BE DONE IN CONFORMANCE WITH ANSI/TIA-568-C STANDARDS AND MANUFACTURERS INSTALLATION GUIDELINES. THE CONTRACTOR SHALL ENSURE THAT THE CABLE'S MINIMUM BEND RADIUS AND MAXIMUM PULLING TENSIONS OF THE SPECIFIED DISTRIBUTION CABLES ARE NOT EXCEEDED. THE CABLE BENDS MUST MAINTAIN THE PROPER RADIUS DURING THE PLACEMENT OF THE FACILITIES. FAILURE TO FOLLOW THE APPROPRIATE GUIDELINES WILL REQUIRE THE CONTRACTOR TO PROVIDE, IN A TIMELY FASHION, ANY ADDITIONAL MATERIAL AND LABOR NECESSARY TO PROPERLY RECTIFY THE SITUATION TO THE SATISFACTION AND WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE. THIS SHALL ALSO APPLY TO ANY AND ALL DAMAGES SUSTAINED TO THE CABLES BY THE
- CONTRACTOR DURING THE IMPLEMENTATION. 4. ALL SCS AND/OR LV INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED TECHNICIANS FOR THAT SYSTEM. THE LABOR EMPLOYED BY THE CONTRACTOR SHALL BE REGULARLY EMPLOYED IN THE INSTALLATION AND REPAIR OF SCS AND/OR LV SYSTEMS AND SHALL BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE TO ENGAGE IN THE INSTALLATION AND SERVICE OF THIS SYSTEM.
- 5 THE MDF AND IDE SPACES ARE DESCRIBED BELOW, AND ENCOMPASS THE AREAS THE COMMUNICATIONS CABLING. EXISTS IN. THESE AREAS INCLUDE (BUT NOT LIMITED TO) THE BACKBOARDS, CABINETS, RACKS, FRAMES, LADDER RACKS, TERMINATION FIELDS, AND PATCH CORDS, (WALL AND RACK TYPES FOR COPPER AND FIBER), THE SCS CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THESE SPACES. (E.G. ANSI/TIA-568-C. ANSI/TIA-569-D. ANSI/TIA-606-B. ANSI/TIA-607-B. BICSI TDMM (CURRENT VERSION). CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 770, CEC ARTICLE 800,
- 6. THE WIRING OF THE SYSTEM SHALL BE EXECUTED IN ACCORDANCE WITH THE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS. SHOULD ANY VARIATIONS IN THESE REQUIREMENTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE BEFORE MAKING ANY CHANGES. IT SHALL BE THE RESPONSIBILITY OF
- 7. ALL MATERIALS SHALL BE NEW. NO USED OR RE-MANUFACTURED PARTS OR COMPONENTS SHALL BE ACCEPTED.

GUARANTEE THE SYSTEM TO OPERATE AS PER PLANS AND SPECIFICATIONS.

THE MANUFACTURER - AUTHORIZED INSTALLER OF THE APPROVED EQUIPMENT TO INSTALL THE EQUIPMENT AND

- 8 CABLE STORAGE: THE CONTRACTOR SHALL NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY AND THE PRIOR WRITTEN APPROVAL OF OWNERS REPRESENTATIVE.
- SPECIAL EQUIPMENT AND TOOLS: IN ORDER TO ENSURE THE LEAST AMOUNT OF CABLE UNTWISTING, IT IS REQUIRED THAT ALL CABLES SHALL BI STRIPPED USING A CABLE MANUFACTURER'S RECOGNIZED SPECIAL TOOL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH ANY SPECIAL INSTALLATION EQUIPMENT OR TOOLS NECESSARY TO PROPERLY COMPLETE THE SYSTEM. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, TOOLS FOR TERMINATING CABLES, TESTING AND SPLICING EQUIPMENT FOR COPPER/FIBER CABLES, COMMUNICATION DEVICES, JACK STANDS FOR CABLE REELS, OR CABLE
- 10. UNDER NO CIRCUMSTANCE ARE "CHANNEL LOCKS" OR OTHER PLIERS NOT DESIGNED BY THE SCS MANUFACTURE TO BE USED TO TERMINATE WAO JACKS.

B. TECHNOLOGY PATHWAY NOTES:

- 1. PATHWAYS CAN BE DIVIDED UP INTO TWO SEPARATE CATEGORIES, OUTSIDE PLANT (OSP) AND INSIDE PLANT (ISP). IT IS THE SCS AND/OR LV SYSTEM(S) CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL EXISTING PATHWAYS (CONDUIT, CABLE TRAY, ETC) THAT WILL BE UTILIZED ON THE PROJECT, AND COORDINATE WITH THE ON-SITE ELECTRICAL OR GENERAL CONTRACTOR TO PROVE ALL PATHS SUBJECT TO BE USED ON THIS PROJECT, BEFORE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION ALL UNDERGROUND (OSP) PATHWAYS, NON-ACCESSIBLE AND PEN CEILING SPACE PATHWAYS AS DESCRIBED IN SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY
- 2. ALL PULL-BOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA-569-D. PULL-BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL-BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL-BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL-BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:
- FOR FILL RATIO BASED CONDUIT SIZING REFER TO THE FILL RATIO TABLE 1A 2B BELOW AND REFERENCE TO ANSI/TIA-569-D.

PULLBOX SIZING PER ANSI/TIA 569-D

Condui t Size	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL
1"	4"	15"	3"	2"
2"	8"	36"	4"	5"
3"	61	48"	5"	6"
4"	101	60"	8"	8"

FILL RATIO TABLE 1A - Conduit

Conduit Size	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
3/4"	16	8	7	6	6	5	5	4	4	4	3	3	3	3	2	2	2	2	2	1	1
1"	26	13	12	11	9	9	8	7	7	6	6	5	5	4	4	4	4	3	3	3	2
1 1/4"	45	23	21	19	17	15	14	13	12	11	10	9	9	8	7	7	6	6	6	5	5
1 1/2"	61	32	28	25	23	21	19	18	16	15	14	13	12	11	10	10	9	8	8	7	6
2"	101	52	47	42	38	35	32	29	27	25	23	21	20	18	17	16	15	14	13	12	11
2 1/2"	176	92	82	74	67	61	56	51	47	44	40	38	35	33	31	29	27	25	24	21	19
3"	266	139	124	112	102	93	85	78	72	66	61	57	53	50	46	43	41	38	36	32	29
3 1/2"	347	181	162	146	133	121	111	102	94	86	80	74	69	65	61	57	53	50	47	42	38
4"	444	231	208	187	170	155	142	130	120	111	103	95	89	83	78	73	68	64	61	54	49

FILL RATIO TABLE 1B - Conduit

Conduit Size	.41	.45	.49	.51	.55	.59	.61	.65	.69	.71	.75	.79	.85	.98	1.00	1.32	1.58	1.79	2.18	2.63	3.00 (47%)
3/4"	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4"	4	3	3	2	2	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-
1 1/2"	6	5	4	3	3	2	2	2	2	2	1	1	1	1	1	-	-	-	-	-	-
2"	10	8	7	6	5	4	4	4	3	3	3	2	2	1	1	-	-	-	-	-	-
2 1/2"	17	14	12	11	9	8	8	7	6	5	5	4	4	3	2	1	1	-	-	-	-
3"	26	22	18	17	14	12	12	10	9	8	8	7	6	4	4	2	1	-	-	-	-
3 1/2"	34	29	24	22	19	16	15	13	12	11	10	9	8	6	5	3	2	1	1	-	-
4"	44	37	31	28	24	21	20	17	15	14	13	12	10	7	7	4	3	2	1	1	1

FILL RATIO TABLE 2A - Cable Tray / Wire Basket / Raceway per NEC 2017 Article 725

			_																		
Tray Size (WxD)	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
4x4	482	251	225	203	184	168	154	141	130	120	111	103	96	90	84	79	74	70	66	59	53
6x4	723	377	338	305	277	252	231	212	195	180	167	155	145	135	127	119	112	105	99	89	80
12x4	1447	754	677	661	554	505	462	424	391	361	335	311	290	271	254	238	224	211	199	178	160
18x4	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
24x4	2894	1509	1355	1222	1109	1010	924	849	782	732	671	623	581	543	509	477	449	423	399	357	321
6x6	1085	566	508	458	415	379	346	318	293	271	251	233	218	203	190	179	168	158	149	133	120
12x6	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
18x6	3256	1698	1524	1375	1247	1137	1040	955	880	814	754	701	654	611	572	537	505	476	449	401	361
24x6	4341	2264	2032	1834	1663	1516	1387	1273	1174	1085	1006	935	872	815	763	716	673	634	598	535	482

FILL RATIO TABLE 2B - Cable Tray / Wire Basket / Raceway

Tray Size (WxD)	.41	.45	.49	.51	.55	.59	.61	.65	.69	.71	.75	.79	.85	.98	1.00	1.32	1.58	1.79	2.18	2.63	3.00 (47%
4x4	48	40	33	31	26	23	21	19	17	16	14	13	11	8	8	4	3	2	-	-	-
6x4	72	60	50	47	40	35	32	28	25	24	21	19	16	12	12	7	4	3	2	-	-
12x4	145	120	101	94	80	70	65	57	51	48	43	39	33	25	24	14	9	7	5	3	2
18x4	218	181	152	141	121	105	98	86	77	72	65	58	50	38	36	21	14	11	7	5	4
24x4	291	241	203	188	161	140	131	115	102	97	86	78	67	50	48	28	19	15	10	7	5
6x6	109	90	76	70	60	52	49	43	38	36	32	29	25	19	18	10	7	5	-	-	-
12x6	218	181	152	141	130	105	106	86	77	72	65	58	50	38	36	21	14	11	7	5	4
18x6	327	271	229	211	181	158	147	130	115	109	97	88	76	57	55	31	22	17	11	7	6
24x6	436	362	305	282	242	210	197	173	154	145	130	117	101	76	73	42	29	22	15	10	8

PATHWAY SEPARATION FROM SOURCE OF ELECTROMAGNETIC ENEGRY:

CONDITION	<2KVA	2-5 KVA	>5KVA
Unshielded Power Lines in Proximity to open PVC Pathways	5" (ln.)	12" (ln.)	24" (In.)
Unshielded Power Lines in Proximity to Grounded Metallic Pathways	2.5" (ln.)	6" (ln.)	12" (In.)
Power Lines enclosed in Metal Grounded Pathways in proximity to Grounded Metallic	<1" (In.)	3" (ln.)	6" (In.)

B. TECHNOLOGY PATHWAY NOTES: (CONT.)

- FOR ALL FIRESTOPPING OF SCS AND LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION G, PENETRATION OF WALLS, FLOOR AND CEILINGS OF THESE TECHNOLOGY GENERAL NOTES.
- FOR ALL OTHER SCS AND/OR LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION F, CONTRACTOR
- GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.
- OUTSIDE PLANT (OSP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, MAINTENANCE HOLES, HAND HOLES, PULLBOXES, AND CONDUITS. a. WHILE ENTERING MAINTENANCE HOLES. HAND HOLES. PULLBOXES, FOLLOW ALL CODES AND SAFETY PRACTICES OF A "CONFINED SPACE". UTILIZE NECESSARY FOLIPMENT TO MAINTAIN ALL SAFE PULLING TENSIONS FOR THE CABLES TO BE INSTALLED. THIS INFORMATION CAN BE FOUND ON THE CABLE MANUFACTURER'S SPECIFICATIONS
- BEFORE EXITING THE MAINTENANCE HOLE, HAND HOLE, PULLBOX, NOTE ON PAPER OR DIGITAL MEANS THE EXISTING AND NEW CABLE(S) LOCATION(S) AND ROUTE(S). AND PROVIDE A "BUTTERFLY" PRINT TO AHJ AND OWNER'S REPRESENTATIVE. LABEL THE INSTALLED MEDIA PER SPECIFICATIONS.
- WITH DIRECTION OF OWNER OR OWNER'S REPRESENTATIVE, CHOOSE AND PROVE ALL CONDUITS BEFORE THE INSTALLATION OF THE MEDIA. MEASURE ALL PATHWAYS WITH MULE-TAPE PRIOR TO ORDERING MATERIAL. ALL LABOR AND MATERIAL COSTS ASSOCIATED WITH DISCREPANCIES BETWEEN DRAWINGS AND VERIFIABLE SITE CONDITIONS SHALL BE BORNE BY CONTRACTOR. COORDINATE WITH THE ELECTRICAL OR GENERAL CONTRACTOR (EC OR GC). IF CONDUITS ARE PLUGGED OR MISSING PULL ROPE.
- d. TRAIL ALL BACKBONE MEDIA (I.E. COPPER, FIBER OR INNERDUCT) WITH A 3/8" YELLOW POLY-NYLON ROPE, LABEL THE ROPE. AND TIE OFF EITHER END. FOR FUTURE INSTALLATIONS.
- e. PROVIDE AND INSTALL ALL HARDWARE NECESSARY TO SUPPORT THE CABLING TO THE WALLS OF THE MAINTENANCE HOLE, HAND HOLES, PULLBOX, (IF IT DOES NOT ALREADY EXIST) THIS HARDWARE IS TO BE CONSTRUCTED FOR THE AREA IT IS TO BE INSTALLED AND DESIGNED FOR THE PURPOSE INTENDED FOR ITS USE
- SCS AND/OR LV CONTRACTOR TO PROVIDE EXPANSION PLUGS IN ALL DUCTS/CONDUITS ENTERING THE BUILDING.
- SEAL ALL UNUSED DUCTS/CONDUITS WITH PLUGS THAT ALLOW THE PULL-STRING TO BE TIED OFF ON THE INSIDE INSIDE PLANT (ISP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, HOLLOW WALL PENETRATION,
- CABLE RACEWAYS AND CONDUITS SHALL NOT BE FILLED GREATER THAN THE CEC 2017, ARTICLE 725 AND BICSI RECOMMENDED FILL FOR THE PARTICULAR RACEWAY OR CONDUIT SIZE FOR CLASS 2/3 WIRE/CABLE.

MEMBRANE PENETRATION. ACCESSIBLE CEILING (I.E. "J" HOOKS). AND CONDUIT

- CONDUIT AND PATHWAY ROUTING SHOWN FOR THE SCS AND LV SYSTEMS ARE STRICTLY DIAGRAMMATICAL FOR THE PURPOSE OF THE BID TO ILLUSTRATE GENERAL METHODOLOGY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE BEST MEANS & METHODS FOR SCS & TECHNOLOGY CONDUIT AND PATHWAY INSTALLATION ADDITIONALLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION PI AN WITH THE OWNERS REPRESENTATIVE AND ALL TRADES PRIOR TO INSTALLATION. REFER TO PLANS AND GENERAL ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- b. CONDUIT PATHWAYS SHALL BE SUPPLIED BY THE ELECTRICAL OR GENERAL CONTRACTOR AS PER THE DRAWINGS, OTHER CONDUITS (IF ANY) MAY NEED TO BE COORDINATED WITH THE EC AND/OR GC OF THE PROJECT.
- NO CABLE IS TO BE PULLED THROUGH A CONDUIT L-BEND "LB" (CONDULETS). d. ALL EXPOSED CONDUIT AND HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONTRACT DISTRICT REPRESENTATIVE FOR PAINT COLORS.
- e. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
- f. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE
- g. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS. h. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
- ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
- PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
- k. REINSTALL PULL-STRINGS IN ALL SCS AND LV ISP PATHWAYS AFTER USE TO FACILITATE FUTURE ADDITION OF CABLES.
- I. IT IS THE SCS AND/OR LV CONTRACTOR'S RESPONSIBILITY TO REPORT ANY UNUSABLE OR INADEQUATE CONDUIT RUNS TO THE OWNER PRIOR TO PULLING ANY CABLE.
- m. PULL BOXES ARE NOT TO BE USED IN LIEU OF A BEND, AND THE CONDUIT SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
- n. CONDUITS SHALL;
- CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.)
- CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX SIZED PER STANDARDS & CODE.
- SPLIT CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
- CONDUIT BEND RADIUS SHALL BE;
- A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS.
- p. POWER SEPARATION:
- THE CONTRACTOR SHALL NOT PLACE ANY DISTRIBUTION CABLING ALONGSIDE POWER LINES, OR SHARE THE SAME CONDUIT, CHANNEL OR SLEEVE WITH ELECTRICAL APPARATUS. AT NO POINT SHALL THE COMMUNICATIONS CABLES BE TIED TO POWER CABLES OR OTHER BUILDING SERVICES. STATION CABLES AND TIE CABLES INSTALLED WITHIN CEILING SPACES SHALL BE ROUTED THROUGH THESE SPACES AT RIGHT ANGLES TO ELECTRICAL POWER CIRCUITS.

A MINIMUM OF 10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.

 AVOID ELECTROMAGNETIC INTEREFERENCE (EMI) BY MAINTAINING ADEQUATE PHYSICAL SEPARATION BETWEEN TECHNOLOGY CABLING AND POSSIBLE SOURCES SUCH AS BUT NOT LIMITED TO ELECTRIC MOTORS FLECTRIC PENCIL SHARPENERS TRANSFORMERS FLUORESCENT LIGHTS THAT SHARE DISTRIBUTION SPACE WITH TELECOMMUNICATIONS CABLING, COPIERS THAT SHARE WORK AREA SPACE WITH LINE CORDS AND TERMINALS, LARGE FAX MACHINES AND POWER CORDS THAT SUPPORTS SUCH FOUIPMENT

C. TECHNOLOGY CABLING NOTES:

- THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE. TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "F" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP, LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT, UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATE ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.
- ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.
- EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.
- 4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS OTHERWISE NOTED OR OBSTRUCTED. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED OUTLETS AND
- PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE. 6. ALL CABLE BUNDLES EXITING FLOOR OR WALL PENETRATIONS AND RUNNING INTO FURNITURE OR CASEWORK SHALL BE
- WRAPPED IN SPIRAL WRAP OR SPLIT-LOOM TUBING TO PROTECT THE CABLING AND PROVIDE A NEAT INSTALLATION. 7. ALL CABLE OR INNERDUCT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALL STRUCTURES.

PATCH PANELS TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO

- IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE TRAYS OR CONDUIT ARE NOT AVAILABLE, CABLE BUNDLES SHALL BE SUPPORTED VIA "J" HOOKS ATTACHED TO THE BUILDING STRUCTURE AND FRAMEWORK AT A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1" WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 60% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS/SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING
- 9. THE CONTRACTOR SHALL BUNDLE, IN BUNDLES OF 48 OR LESS, STATION OR OTHER CABLING WITH 3/4" HOOK AND LOOP "VELCRO" STRIPS TIGHT ENOUGH TO HOLD THE BUNDLE TOGETHER IN A CYLINDRICAL SHAPE. BUT NOT SO TIGHT AS TO DEFORM THE CABLE GEOMETRY. IT SHALL BE POSSIBLE TO COMPLETELY ROTATE ALL HOOK AND LOOP TIES AROUND ALL CABLE BUNDLES. PLENUM RATED HOOK AND LOOP TIES WILL BE USED IN ALL PLENUM AREAS.
- 10. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE
- 11. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIRONMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.
- 12. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONTRACTOR, THE SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC 2017, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETTED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND AIR WATER HEAT OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING, CABLES SHALL BE INDEPENDENTLY SUPPORTED ON FITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE LISED AS CARLES SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE SCS CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- 13. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING THES, SLICH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.
- 14. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC 2017, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.
- ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS.
- ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF
- SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF ALL CABLES IN EXISTING CONDUITS.
- FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULI STRINGS DURING THE COURSE OF HIS WORK SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

D. TECHNOLOGY GROUNDING SYSTEM NOTES.

- THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSSBAR (TGB) AND TELECOMMUNICATION BONDING BACKBONE (TBB) CABLE(S) AT EACH MDF ROOM AND IDF LOCATION. TERMINATE THE TBB ON GROUND BARS LOCATED AT EACH MDF ROOM AND IDF CABINET FROM BUILDING STEAL OR MAIN ELECTRICAL GROUND, OR AS OTHERWISE INDICATED ON THE
- THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC 2017, ANSI/TIA-607-B AND ALL LOCAL CODES AND PRACTICES.
- THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING ALL METALLIC SHEATH COMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPECIFICATIONS AND CEC 770-33, 800-33 AND 800-40. ALL GROUNDS SHALL CONSIST OF # 6-AWG COPPER WIRE AND SHALL BE SUPPLIED FROM AN APPROVED BUILDING GROUND AND BONDED TO THE MAIN. ELECTRICAL GROUND. ALL CABLE SHEATHS AND SPLICE CASES SHALL BE GROUNDED TO A TELECOMMUNICATIONS GROUND
- 4. THE SCS CONTRACTOR SHALL PROVIDE GROUNDING AND BONDING FROM ALL HORIZONTAL EQUIPMENT INCLUDING DISTRIBUTION AND CROSS CONNECT FRAMES, PATCH PANELS, CABLE TRAYS, EQUIPMENT RACKS, LADDER TRAYS, CONDUITS, ACTIVE TELECOMMUNICATION EQUIPMENT, SLEEVES, TEST APPARATUS. EQUIPMENT SHALL BE BONDED TO THE TBB GROUND BARS UTILIZING A #6-AWG GREEN CONDUCTOR WITH 2-HOLE LONG BARREL COMPRESSION GROUNDING LUGS.
- a. EACH EQUIPMENT CABINET AND RACK REQUIRES ITS OWN DEDICATED RACK GROUNDING BUSBAR (RGB) WITH A BONDING CONNECTION TO THE GROUNDING INFRASTRUCTURE. THE GROUNDING INFRASTRUCTURE CONSIST OF A TB, BY PROVIDING EVERY RACK/CABINET WITH ITS OWN DEDICATED #6 WAG (MIN.) GREEN CONDUCTORS BACK TO THE TOMB/TB. ALL GROUND CONDUCTOR ATTACHMENTS SHALL UTILIZE 2-HOLE LONG BARREL COMPRESSION LUGS.
- b. HORIZONTAL CABLES SHALL BE GROUNDED IN COMPLIANCE WITH ANSI/TIA-607-C, FP 70 (EEC) AND LOCAL REQUIREMENTS c. IN RAISED-FLOOR ENVIRONMENTS, THE GROUND CONDUCTOR SHALL ATTACH TO THE LOWEST HOLES ON THE FRONT
- RAIL OF EACH RACK/CABINET. d. RACK MOUNTED EQUIPMENT SHALL BE GROUNDED VIA THE CHASSIS, IN ACCORDANCE WITH MANUFACTURER'S

SCREWS ARE NOT USED, REMOVE PAINT AT EACH CONNECTION POINT AND USE AN APPROVED ANTI-OXIDANT PRIOR TO

- e. BONDING OF LADDER RACK SECTIONS: ATTACH BONDING STRAPS TO EACH LADDER RACK SECTION BY UTILIZING EITHER NO (2) TRI-LOBULAR THREAD-FORMING SCREWS (NOT SELF-TAPPING OR SHEET METAL SCREWS) OR BY USING TWO (2) TANDARD BOLTS WITH TWO (2) "TYPE B" INTERNAL / EXTERNAL TOOTH LOCK WASHERS PER BOLT. IF THREAD-FORMING
- ATTACHING THE BONDING STRAP. E. TERMINAL BACKBOARDS NOTES. WHERE INDICATED ON DRAWINGS. CONTRACTOR TO PROVIDE NEW PLYWOOD TERMINAL BACKBOARDS. USE DOUGLAS FIR PLYWOOD, INTERIOR A/C GRADE, FINISHED ONE SIDE AND PRIME COAT PAINTED ON ALL SURFACES WITH A FINISH COAT OF

FIRE RETARDANT WHITE ENAMEL. ON EACH PLYWOOD SHEET LEAVE ONE (1) FIRE MARSHAL STAMP UNPAINTED FOR

INSPECTION. UNLESS OTHERWISE INDICATED, USE 8'-0" HIGH X LENGTH AS SHOWN ON DRAWINGS X 3/4" THICK PLYWOOD.

REFERENCE BACKBOARD ELEVATIONS FOR MORE INFORMATION. F. PENETRATIONS OF WALLS, FLOORS AND CEILINGS NOTES.

SPECIFIED REQUIREMENTS.

- UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE NO PENETRATION OF FLOORS, WALLS OR CEILING WITHOUT THE PRIOR WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE.
- a. THE SCS AND/OR LV CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL COMMUNICATIONS RATED (AND IN SOME CASES NON-RATED. THAT WILL BE DESCRIBED BELOW THIS SECTION) PATHWAYS AND SPACES. THESE FIRE STOPPING DEVICES SHALL CONFORM TO (BUT NOT LIMITED TO) UL 1479. ASTM E814. BICSI TDMM. FIRE STOPPING ANSI/TIA-568-C. STANDARD FOR INSTALLING COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING. SECTION 5. CLAUSE 5.1 THROUGH 5.2.3, MANUFACTURES GUIDELINES OR OTHER PREVAILING CODE AND MUST BE AN APPROVED UL LISTED SYSTEM.
- CABLE TRAY FIRE-STOPPING SHALL UTILIZE THE MULTI GANG FIRE-STOPPING SYSTEM THAT WILL BE ABLE TO STACK THE JNITS HORIZONTALLY AND/OR VERTICALLY IF REQUIRED DUE TO CURRENT AND/OR FUTURE CABLING DESIGNS.

THE CONTRACTOR SHALL INSTALL PENETRATION FIRE-STOP SEAL MATERIALS IN ACCORDANCE WITH DESIGN

- EQUIREMENTS, AND MANUFACTURER'S INSTRUCTIONS THE CONTRACTOR'S INSTALLER SHALL BE CERTIFIED, LICENSED OR OTHERWISE QUALIFIED BY THE FIRE-STOPPING MANUFACTURER AS HAVING BEEN PROVIDED THE NECESSARY TRAINING TO INSTALL MANUFACTURER'S PRODUCTS PER
- e ALL THROUGH-PENETRATION SHALL BE A MANUFACTURED. UL CLASSIFIED, FIRE-STOP DEVICE / SYSTEM DESIGNED TO ALLOW CABLES TO PENETRATE FIRE-RATED WALLS WITH A BUILT-IN FIRE SEALING SYSTEM THAT AUTOMATICALLY ADJUSTS TO THE AMOUNT OF CABLES INSTALLED. THE FIRE-STOPPING DEVICE SHALL BE CAPABLE OF INSTALLATION IN NEW CONSTRUCTION OR RETROFIT IN EXISTING STRUCTURES.
- f. THE CONTRACTOR MUST NOT USE CONCRETE OR OTHER NON-REMOVABLE SUBSTANCE FOR FIRE STOPPING ON CABLE TRAYS, WIREWAYS OR CONDUITS. CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED AND PROVIDE THE ORIGINAL SPECIFIED ACCESS TO EACH EFFECTED AREA. THIS REQUIREMENT ALSO APPLIES TO MAINTAINING FIRE RATINGS OF ALL FLOORS PENETRATED BY CONDUITS OR DEVICES DESIGNATED FOR USE BY VOICE AND DATA CABLING.
- ANY PENETRATIONS THROUGH FIRE-RATED WALLS FOR CABLE PATHWAYS / CABLES SHALL BE SEALED BY USE OF A NON-PERMANENT FIRE BLANKET OR OTHER METHOD IN COMPLIANCE. THE CONTRACTOR MUST USE FIRE STOPPING ON CABLE RAYS, WIREWAYS AND CONDUITS EITHER VERTICAL OR HORIZONTAL. FOUR DIFFERENT METHODS OF FIRE-STOPPING HAVE BEEN IDENTIFIED FOR THE HORIZONTAL THROUGH PENETRATIONS BETWEEN WALLS, RATED, RATED WITH ACOUSTIC PROPERTIES. NON-RATED. AND NON-RATED WITH ACOUSTIC PROPERTIES. BELOW ARE METHODS TO ACCOMPLISH THESE DIFFERENT TYPES:
- SEALING OF RATED OPENINGS BETWEEN FLOORS OR THROUGH RATED WALLS. WHETHER EXISTING OR CREATED BY THE CONTRACTOR FOR PLACEMENT OF CABLE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEALING MATERIAL AND APPLICATION SHALL BE AN APPROVED UL LISTED SYSTEM AND SHALL BE ACCOMPLISHED IN SUCH A MANNER THAT IS ACCEPTABLE TO THE LOCAL FIRE AND BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS WORK. CREATION OF SUCH OPENINGS AS ARE NECESSARY FOR CABLE PASSAGE BETWEEN LOCATIONS AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY OPENINGS CREATED BY OR FOR THE CONTRACTOR AND LEFT UNUSED SHALL ALSO BE SEALED AS PART OF THIS WORK.
- RATED WALLS WITH THROUGH PENETRATIONS WITH ACOUSTIC PROPERTIES SHALL BE INSTALLED WITH FACTORY MANUFACTURED DEVICE. SUCH AS A STI "EZ PATH" OR WIREMOLD "FLAMESTOPPER" OR EQUAL. THE TYPICAL STC RATING IS TO BE EQUAL TO OR GREATER THAN THE WALL PENETRATED, (AVG IS A RATING OF 44 STC PER UBC
- NON-RATED PATHWAY, ALTHOUGH NOT REQUIRED TO BE FIRE-STOPPED, SHALL BE A MANUFACTURED DEVICE THAT WILL ALLOW FIRE-STOPPING TO BE INSTALLED IN THE FUTURE IF REQUIRED, (I.E. WIREMOLD "FLAMESTOPPER" OR
- A NON-RATED PATHWAY WITH ACOUSTIC PROPERTIES CAN BE FOUND IN AREAS SUCH AS, CONFERENCE ROOMS. HUMAN RESOURCE OFFICES. MEDICAL EXAMINATION ROOMS ETC. THESE ROOMS REQUIRE TO LIMIT THE AMOUNT OF AMBIENT NOISE THAT CAN TRAVELEROM ONE ROOM TO THE OTHER THROUGH THE CEILING GRID. IF THIS WALL IS PENETRATED, INSTALL A SYSTEM THAT WILL RE-ESTABLISH THE STC RATING OF THE WALL, THE TYPICAL STC RATING IS AN AVERAGE OF 44 STC PER UBC RATINGS.

G. CONTRACTOR(S) GUIDELINES.

- ALL TECHNOLOGY WORK SHALL COMPLY WITH DESIGN GUIDELINES AS WELL AS APPLICABLE FEDERAL. STATE, AND LOCAL CODES. WHERE THE CONSTRUCTION DOCUMENTS INDICATE MORE RESTRICTIVE REQUIREMENTS. THE DOCUMENTS SHALL GOVERN BUT THE CONSTRUCTION DOCUMENTS SHALL NOT BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODE OR
- 2. IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN ITEMS INDICATED ON THE PLANS AND/OR SPECIFICATIONS OR WITH CODE REQUIREMENTS, THE NOTE, CODE OR SPECIFICATION WHICH PRESCRIBES AND ESTABLISHES THE MORE COMPLETE JOB OR THE HIGHER STANDARD SHALL PREVAIL. OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR THE MIS-DESCRIPTION OF DETAILS FROM WORK WHICH ARE CLEAR AND NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS, SPECIFICATIONS, OR WHICH ARE CUSTOMARILY PERFORMED,
- SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK BUT THEY SHALL BE PERFORMED AS IF FULLY AND CORRECTLY SET FORTH AND DESCRIBED IN THE DRAWINGS AND
- 4. THE CONTRACTOR SHALL CHECK ALL DRAWINGS FURNISHED, IMMEDIATELY UPON THEIR RECEIPT AND SHALL PROMPTLY NOTIFY THE OWNER OF ANY DISCREPANCIES.
- 5. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND SHALL BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED
- THE CONTRACTOR SHALL NOT BORE, NOTCH OR IN ANY WAY CUT INTO ANY STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT OR STRUCTURAL ENGINEER 7. ALL CHANGES TO STRUCTURES (BUILDING, DRILLING, CORING, ETC.) NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED IN WRITING BY STRUCTURAL ENGINEER.
- 8. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE TELECOM DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DATA INFORMATION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION SECTIONS WHERE SCS AND LOW VOLTAGE WORK INTERFACES WITH OTHER TRADES.
- THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS TO REFLECT ALL CHANGES MADE DURING CONSTRUCTION AND ANY DEVIATIONS FROM THE ELECTRICAL AND TECHNOLOGY DRAWINGS. THIS INCLUDES DEVIATIONS FROM OUTLET NUMBERS AND ANY ADDITION DELETION OR RELOCATION OF OUTLETS SHOWN ON WORKING DRAWINGS PATHWAY ADDITIONS DELETIONS. OR RELOCATIONS. THE CONTRACTOR SHALL AFTER COMPLETION OF JOB, PROVIDE THE OWNER AN ELECTRONIC AND HARD COPY OF AS-BUILT WORK
- 10. ANY DEVIATIONS FROM PLANS OR SPECS MUST BE APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE.
- 11. ALL FOOTAGES ON DRAWINGS ARE ESTIMATED AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO ORDERING MATERIAL
- 12. ALL STATION CABLES SHALL BE NEATLY DRESSED AND SECURED EVERY FIVE FEET AT A MINIMUM. 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILING TILE INCLUDING REPLACEMENT OF
- 14. ALL LOCATIONS PASSING THROUGH A FIRE OR A SMOKE BARRIER MUST BE FIRE STOPPED USING APPROVED (UL CLASSIFIED) FIRE STOP SYSTEM, INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND PROPERLY LABELED.
- 15. CONDUIT SHALL BE FILLED TO MAXIMUM CAPACITY (PER CODE, STANDARDS, AND NORMS) BEFORE UTILIZING ANOTHER VACANT CONDUIT.
- 16. ALL STATION OUTLETS AND TERMINALS SHALL BE PROPERLY IDENTIFIED USING THE OWNER'S STANDARD INTERNAL DISTRIBUTION NUMBERING SCHEME. ALL LABELS SHALL BE PREPRINTED OR TYPED.
- OPTIC COUNTS, DISTANT ENDS, AND CABLE LENGTH. BOTH ENDS OF EACH CABLE AND AT EVERY MAINTENANCE HOLE, HAND 18. FIBER BACKBONE CABLE SHALL BE PLACED WITH 6 FOOT MAINTENANCE LOOP AT BOTH ENDS OF THE RUN. THE MAINTENANCE LOOP SHALL BE SECURED IN SUCH A MANNER TO PROVIDE PROTECTION DURING SUBSEQUENT CABLE PULLS.

17. EACH BACKBONE RISER AND/OR OSP CABLE SHALL BE EQUIPPED WITH A PERMANENT LABEL INDICATING CABLE TYPE, PAIR OR

STATION/JACK NUMBERING SCHEME THAT IS STANDARDIZED FOR THE OWNER. 20. ALL FIBER OPTIC STATION AND RISER CABLE SHALL BE TESTED END-TO-END AND THE RESULTS (LOSS IN dB) NOTED ON A

19. ALL STATION CABLES/OUTLETS SHALL BE TESTED AND DOCUMENTED USING A PAIR SCANNER SPECIFICALLY DESIGNED TO TEST THE TYPE OF CABLE INSTALLED (E.G. CATEGORY 6A). TEST RESULTS SHALL BE ONE PAGE PER AND NOTED WITH THE

- SEPARATE TYPED SHEET. 21. AFTER STATION CABLE IS TESTED AND DOCUMENTED, ONE PAIR FROM EACH VOICE STATION SHALL BE CROSS CONNECTED THROUGH EACH CLOSET BACK TO THE MAIN DISTRIBUTION FRAME. TELEPHONE NUMBER ASSIGNMENTS FOR EACH JACK MUST BE APPROVED BY THE TELECOM STAFF PRIOR TO IMPLEMENTATION. A WRITTEN RECORD OF ALL CROSS CONNECT ASSIGNMENTS WILL BE PROVIDED TO THE OWNER BY THE SCS CONTRACTOR.
- 22. FIBER CABLES SHALL BE SPLICED TOGETHER USING A FUSION SPLICE AND PLACED IN A FIBER SPLICE CASE THAT IS RE-ENTERABLE, FULLY DRESSED AND ENCLOSED TO FIT THE NUMBER AND TYPE OF CABLES TERMINATED.

TECHNOLOGY CONTRACTOR(S) GUIDELINES. (CONT.)

- 23. CABLE TRAY SHALL BE PLACED IN MDF AND IDF(S) AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROPERLY
- SECURE CABLES AND WIRE. 4. A BACKBONE CABLE ASSIGNMENT RECORD SHEET SHALL BE PREPARED (TYPED) PRIOR TO START OF ACCEPTANCE
- TESTING. ALL FLOOR PLANS SHALL BE NEATLY HAND NOTED WITH STATION JACK NUMBER AND CABLE LENGTH.
- 25. ALL CABLES SHALL BE CLEARLY LABELED WITH CABLE NUMBERS, PAIR ASSIGNMENTS AND DESIGNATION. 26. ALL CABLE TRAYS, LADDER RACKS, CONDUITS, EQUIPMENT RACKS, PROTECTOR PANELS, AND CABLE SHEATHS SHALL
- 27. ALL SPLICES SHALL BE CONTAINED WITHIN AN APPROVED SPLICE CASE DESIGNED FOR MULTIPLE CLOSURE.

BE BONDED & GROUNDED TO EQUIPMENT GROUND WITH #6 WIRE (MIN.)

- 28. ALL SPLICES SHALL UTILIZE 3M 710 MODULES. ALL CABLES MUST BE EQUIPPED TO PROVIDE A CONTINUOUS BOUND OF
- CABLE SHIELDS THROUGH ALL SPLICES. 29. PULL ROPES SHALL BE PLACED IN ALL VACANT CONDUITS.
- 30. ALL WORK MUST BE COMPLETED IN A NEAT AND PROFESSIONAL MANNER. THE WORK SITE SHALL BE KEPT CLEAN AND
- 32. CONTRACTOR SHALL REMOVE ALL COPPER, FIBER AND COAXIAL CABLES ABANDONED IN CONDUIT, CEILINGS AND

31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A FINAL CLEANUP OF THE WORK SITE PRIOR TO FINAL

WALLS PER CEC. CABLE SHALL INCLUDE ALL INTRABUILDING, RISER SYSTEMS AND STATION CABLES FOR ALL LOW VOLTAGE/TECHNOLOGY/STRUCTURED CABLING SYSTEMS.

3. CONTRACTOR(S) SHALL VERIFY ALL SITE CONDITIONS PRIOR TO BID. 34. IN ACCESSIBLE CEILING SPACES;

PLANS AND SPECIFICATION

ALL DAMAGE TO OWNER'S PROPERTY REPAIRED.

COME WITHIN TWELVE INCHES OF A LIGHT FIXTURE.

- THE CONTRACTOR SHALL PROVIDE THE REQUIRED STUB UP(S) / OUT(S) AND BOXES WITH MUD-RINGS TO THE NEAREST ACCESSIBLE CEILING SPACE AND / OR NEAREST TECHNOLOGY PATHWAY INFRASTRUCTURE, REFERENCE PLANS AND SPECIFICATION FOR MORE INFORMATION.
- THE DESIGNATED SCS / TECHNOLOGY CONTRACTOR(S) SHALL PROVIDE A J-HOOK PATHWAY SYSTEM AND REQUIRED SLEEVES, DO NOT USE CEILING TILE WIRE HANGERS, WATER OR ELECTRICAL PIPES, OR LIGH FIXTURES TO HANG CABLE. CABLE MUST BE A MINIMUM OF 6 INCHES ABOVE THE CEILING TILE AND MUST NOT
- THE SCS / TECHNOLOGY CONTRACTOR WILL PROVIDE THE PATHWAY REQUIRED FOR THE STRUCTURE CABLING SYSTEMS.
- THE DESIGNATED LOW VOLTAGE / TECHNOLOGY CONTRACTOR(S) FOR EACH "SUB-SYSTEM WILL PROVIDE THE PATHWAY REQUIRED FOR THE SYSTEMS, OUTSIDE WHAT IS CONSIDERED THE STRUCTURED CABLING

CABINETS, TERMINAL CABINETS, ETC. TO THE POINT OF TERMINATION AT THE STATION END LOCATION PER

13. IN INACCESSIBLE AND HARDLID CEILING SPACES; a. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT PATHWAYS, BOXES ETC. FOR A COMPLETE SYSTEM FROM THE MDF ROOM, IDF ROOM(S), IDF CABINET(S), AND ALL OTHER LOW VOLTAGE / TECHNOLOGY SYSTEMS HEADEND,

ACP	ACCESS CONTROL POINT	(N)	NEW
ACS	ACCESS CONTROL SYSTEM	NC	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AHJ	AUTHORITY HAVING JURISDICITON	NO	NORMALLY OPEN
AMP	AMPLIFIER	NTS	NOT TO SCALE
AOR	ARCHITECT OF RECORD	ос	ON CENTER
AUD	AUDIO	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
AUTO	AUTOMATIC	OFOI	OWNER FURNISHED,
AUX	AUXILIARY	0.0.	OWNER INSTALLED
AV	AUDIOVISUAL	OSP	OUTSIDE PLANT
AVC	AUDIOVISUAL CONTRACTOR	РВ	PULL BOX
AVTC	AUDIOVISUAL TERMINAL CABINET	PIR	PASSIVE INFRARED
AWG	AMERICAN WIRE GUAGE	POE	POWER OVER ETHERNET
ВСТ	BONDING CONDUCTOR FOR TELECOMMUNICATIONS CONDUIT	PR	PAIR OF CONDUCTORS
С	CONDUIT	PTZ	PAN TILT ZOOM
CATV	COMMUNITY ANTENNA TELEVISION	PVC	POLYVINYL CHLORIDE
CFCI	CONTRACTOR FURNISHED.	PWR	POWER
	CONTRACTOR INSTALLED	RCP	REFLECTED CEILING PLAN
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	REX	REQUEST TO EXIT
CL	CENTERLINE	RFI	REQUEST FOR INFORMATION
CPU	COMPUTER	RMC	RIGID METALLIC CONDUIT
DGP	DATA GATHERING PANEL	SAD	SEE ARCHITECTURAL DRAWING
DIV	DIVISION	SED	SEE ELECTRICAL DRAWINGS
DMA	DOOR MANAGEMENT ALARM	SEH	SECURITY EQUIPMENT HUB
(E)	EXISTING	SM	SINGLE MODE
EC	ELECTRICAL CONTRACTOR	SMS	SECURITY MANAGEMET SYSTEM
ECS	EMERGENCY COMMUNICATION SYSTEM	SPD	SURGE PROTECTION DEVICE
EF	ENTRANCE FACILITY FOR	STR	STRANDS (OF FIBER)
E. 4T	TELECOMMUNICATION	STP	SHIELDED TWISTED PAIR
EMT	ELECTRIC METALLIC TUBING	SY	SECURITY
ER	EQUIPMENT ROOM	TBB	TELECOMMUNICATIONS BONDING BACKBONE
EXT (F)	EXTERIOR FUTURE	TELCO	TELEPHONE COMPANY
FACP	FIRE ALARM CONTROL PANEL	TGB	TELECOMMUNICATIOIN GROUNDING BUSBAR
FATC	FIRE ALARM TERMINAL CABINET	TMGB	TELECOMMUNICATION MAIN
FB	FLOORBOX	TD	GROUNDING BUSBAR
FO	FIBER OPTIC	TR	TELECOM ROOM (IDF)
FOV	FIELD OF VIEW	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
IC	INTERCOM	UPS	UNINTERUPTABLE POWER SUPP
IDF	INTERMEDIATE DISTRIBUTION FRAME	UTP V	UNSHIELDED TWISTED PAIR VOICE
IDS	INTRUSION DETECTION SYSTEM	VSS	VIDEO SURVEILLANCE SYSTEM
INT	INTERIOR		
IP	INTERNET PROTOCOL	WB WP	WALL BOX WEATHERPROOF
IT	INFORMATION TECHNOLOGY	VVP	WEATHEINFINOUF
JB	JUNCTION BOX		
LVC	LOW VOLTAGE CONTROLLER		

MATV MASTER ANTENNA TELEVISION

MPOE | MINIMUM POINT OF ENTRY

MIC MICROPHONE

MM MULTIMODE

SHEET NUMBER SHEET NAME

T111B

MAIN DISTRIBUTION FRAME

TECHNOLOGY SHEET INDEX

TECHNOLOGY ABBREVIATIONS, NOTES, AND SCHEDULES

TECHNOLOGY SYMBOL LEGEND TECHNOLOGY SITE PLAN

TECHNOLOGY PLAN - LEVEL 1 - AREA A

TECHNOLOGY SINGLE LINE DIAGRAM

TECHNOLOGY PLAN - LEVEL 1 - AREA B ENLARGED TECHNOLOGY PLANS

TECHNOLOGY FLOOR PLAN

TECHNOLOGY DETAILS TECHNOLOGY DETAILS

www.lpengineers.com

1919 Nineteenth Street

Sacramento CA 95811

www.lionakis.com

CONSULTANT

P 916.558.1900 F 916.558.1919

MEP & FS / Sustainability / CxA 1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

ENGINEERS Job #: 18-2115

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

MARK DESCRIPTION 06/17/2021 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT N CLIENT PROJECT NO ?00.00.00?

LIONAKIS 2019

TITLE **TECHNOLOGY** ABBREVIATIONS, NOTES, AND

SCHEDULES

TECHNOLOGY SYMBOL LEGEND ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED. SYMBOL DESCRIPTION **TELECOM** TELEPHONE OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 3 ⊳ 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO TELE/DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 1/3 🖊 (2) 3/4" CONDUIT STUB UP TO ACCESSIBLE CLG SPACE, UNO TELE/DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE ABOVE COUNTER AND (2) 3/4" 1/3 🔎 CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO FLOOR MOUNTED DATA OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN FLOOR MOUNTED TELEPHONE OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN FLOOR MOUNTED TELEPHONE/DATA OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN CEILING MOUNTED DATA OUTLET, 4" SQ. BOX WITH SINGLE DEVICE RING & PLATE NUMBER BY DEVICE SYMBOL PARENTHESIS INDICATES NUMBER OF REQUIRED ACTIVE JACKS FOR VOICE/DATA OUTLETS, THE FIRST NUMBER REPRESENTS THE # OF VOICE PORTS AND THE SECOND NUMBER REPRESENTS DATA OUTLET FOR TV, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX TV1 ⊳ & 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO WIRELESS ACCESS POINT, 4" SQ. BOX W/ 1 GANG RING FOR INDOOR LOCATIONS TELEPHONE TERMINAL BACKBOARD COAXIAL CABLE OUTLET CLOCK, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMMENDATIONS INTERCOM SPEAKER AND CLOCK COMBINATION, 4" SQ. x 2-1/8" DEPTH BOX W/ 2 GANG RING 3/4" CONDUIT STUB UP TO CEILING MOUNTED AV SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS WALL MOUNTED AV SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMMENDATIONS CEILING MOUNTED INTERCOM SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMENDATIONS WALL MOUNTED INTERCOM SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMENDATIONS EMERGENCY HELP BUTTON AV CONTROLLER SURVEILLANCE CAMERAS 360 DEGREE CAMERA, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE FOR INDOOR LOCATIONS FIXED POSITION CAMERA, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE FOR INDOOR LOCATIONS WEATHERPROOF FIXED POSITION CAMERA, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE FOR INDOOR LOCATIONS ACCESS CONTROL CARD READER, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING AT READER - 1/2" CONDUIT CHASE STUB TO CEILING - TO ELECTRONIC LOCK **INTRUSION ALARM** KP KEYPAD, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING - 3/4" CONDUIT CHASE STUB TO CEILING - TO LOCAL RELAY WALL/CEILING MOUNTED FIXED POSITION INTRUSION SENSOR, 4" SQ. x 2-1/8" DEPTH BOX W/ 1 GANG RING - 3/4" CONDUIT \longrightarrow CHASE STUB TO CEILING - TO LOCAL RELAY CEILING MOUNTED 360 DEGREES INTRUSION SENSOR DOOR CONTACT GLASS BREAK POPPIT DOME LIGHT MOUNTED OVER DOOR. PROVIDE 4-11/16" BACK BOX WITH 2 GANG RING AND STUB 3/4" CONDUIT ONLY WITH PULL ROPE UP TO ACCESSIBLE CEILING SPACE. MINI MASTER STATION. PROVIDE 4" SQUARE BACK BOX WITH 1 GANG RING. EMERGENCY PULL CORD STATION WALL MOUNTED AT +48". PROVIDE 4" SQUARE BACK BOX WITH 1 GANG RING AND STUB 1/2" CONDUIT ONLY WITH PULL ROPE UP TO ACCESSIBLE CEILING SPACE. EMERGENCY PUSH BUTTON - STAFF EMERGENCY WALL MOUNTED AT +48". PROVIDE 4" SQUARE BACK BOX WITH 1 GANG RING AND STUB 1/2" CONDUIT ONLY WITH PULL ROPE UP TO ACCESSIBLE CEILING SPACE. EMERGENCY PUSH BUTTON - STAFF EMERGENCY/CODE BLUE WALL MOUNTED AT +48". PROVIDE 4" SQUARE BACK BOX WITH 1 GANG RING AND STUB 1/2" CONDUIT ONLY WITH PULL ROPE UP TO ACCESSIBLE CEILING SINGLE BED PATIENT STATION w/ CODE BLUE AND STAFF EMERGENCY WALL MOUNTED AT +48". PROVIDE 4 GANG BACK BOX (RACO #698 OR SIMILAR) AND STUB 3/4" CONDUIT ONLY WITH PULL ROPE UP TO ACCESSIBLE CEILING NURSE CALL CONTROLLER AND TERMINAL CABINET (36"x24"x6" METAL BOX WITH LOUVERED DOOR) BY NCTC OTHERS. PROVIDE 120V, 20A CIRCUIT PER ELECTRICAL PLANS. POWER SUPPLY TERMINAL CAN (18"x22"x6" METAL BOX WITH LOUVERED DOOR) BY OTHERS. PROVIDE 120V, 20A CIRCUIT PER ELECTRICAL PLANS. 1. REFERENCE AUDIO VISUAL SPECIFICATIONS AND MANUFACTURER GUIDELINES WHEN DETERMINING BACK BOX SIZE FOR AV EQUIPMENT. 2. USE EXTENSION RINGS IF NEEDED, ON ALL LOCATIONS. 3. REFERENCE EIA/TIA STANDARDS.

Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT

p 916-771-0778

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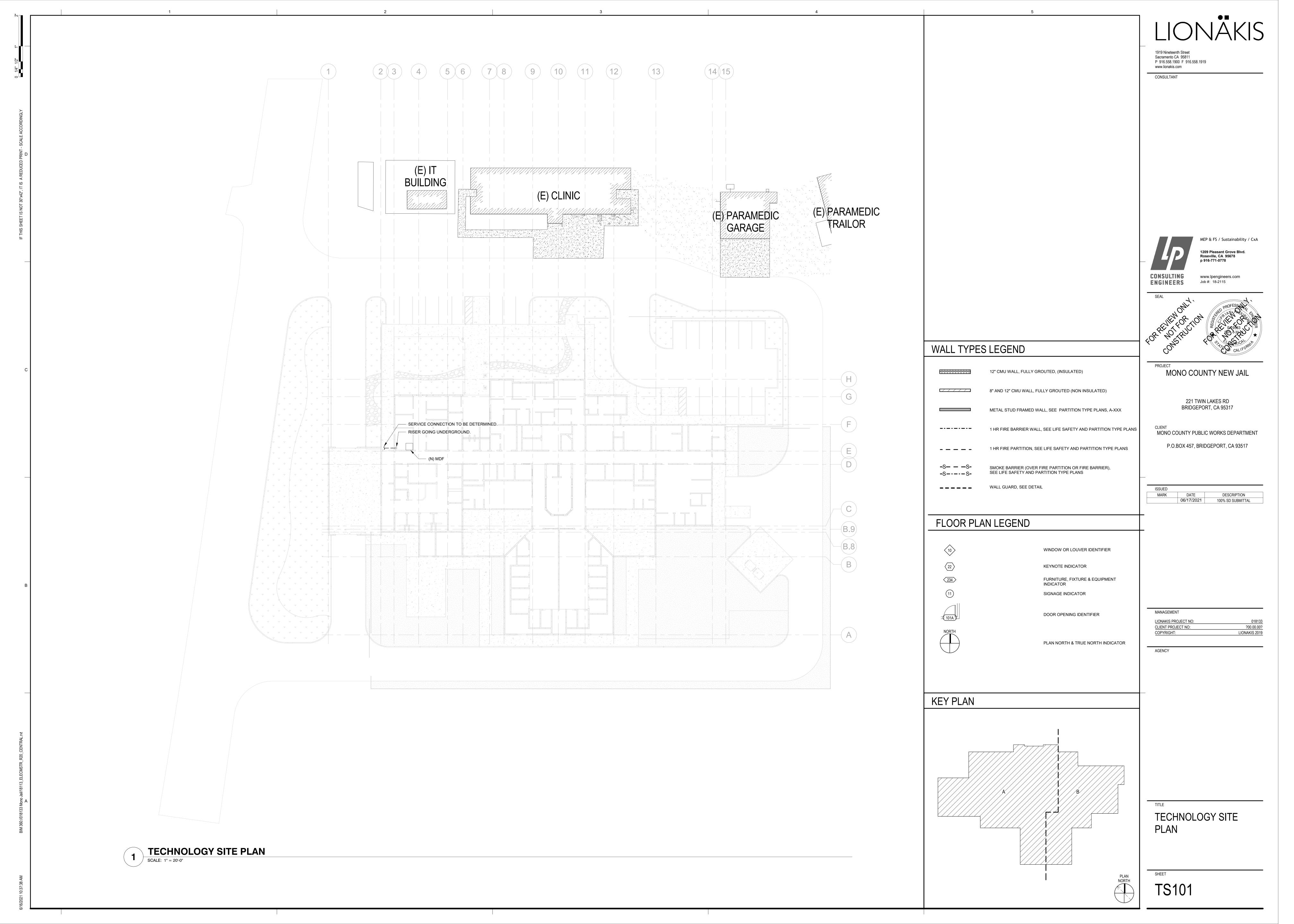
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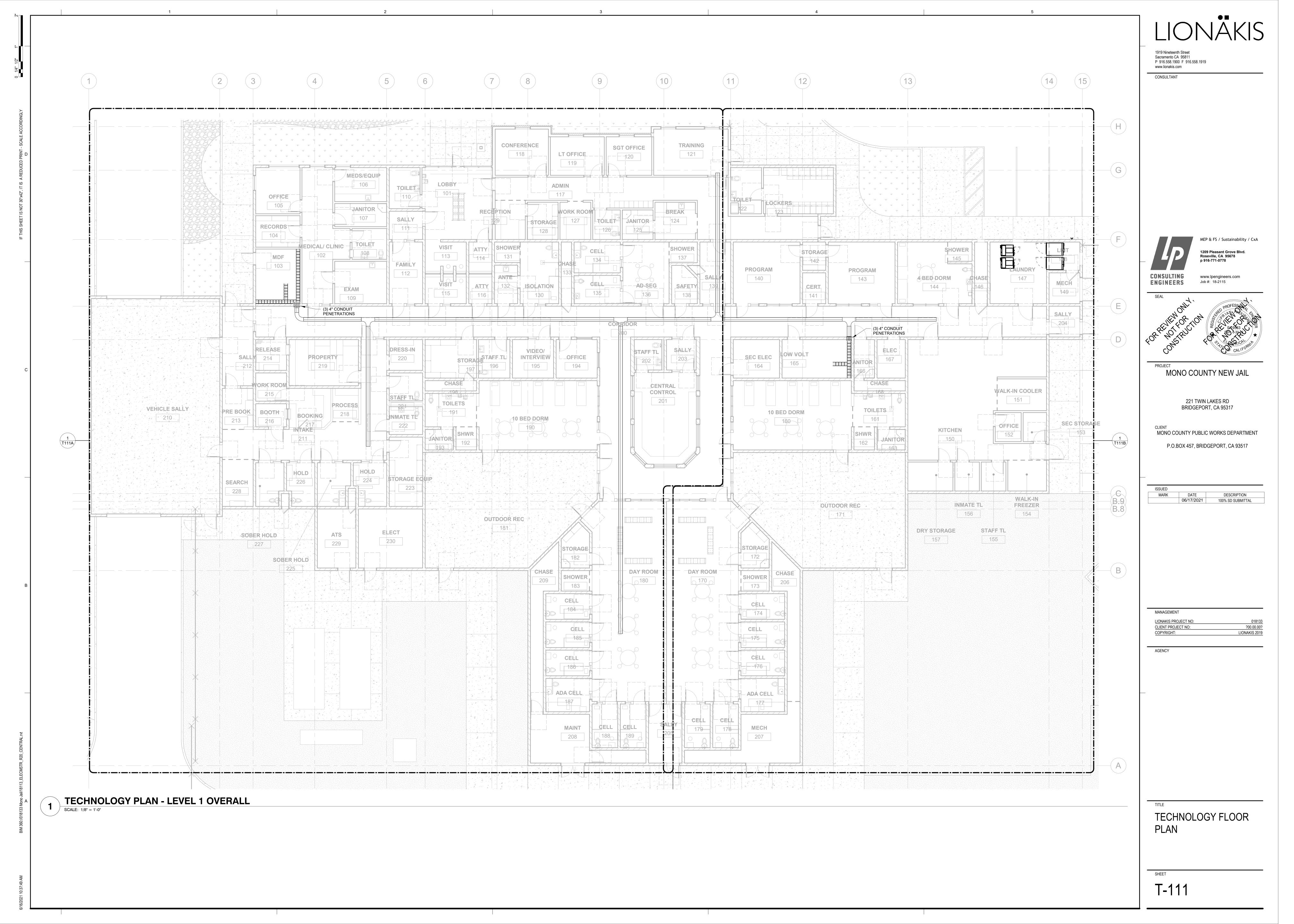
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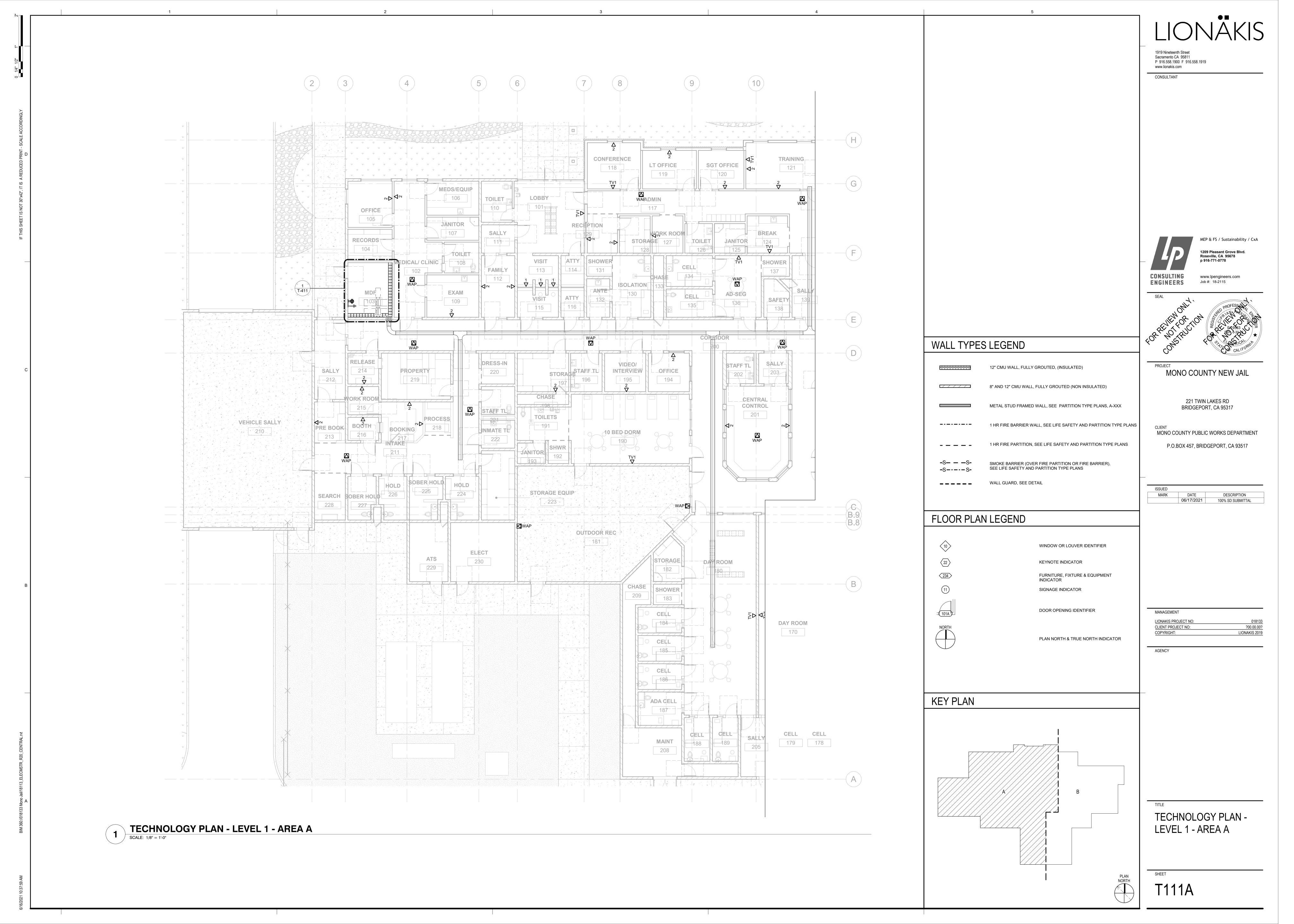
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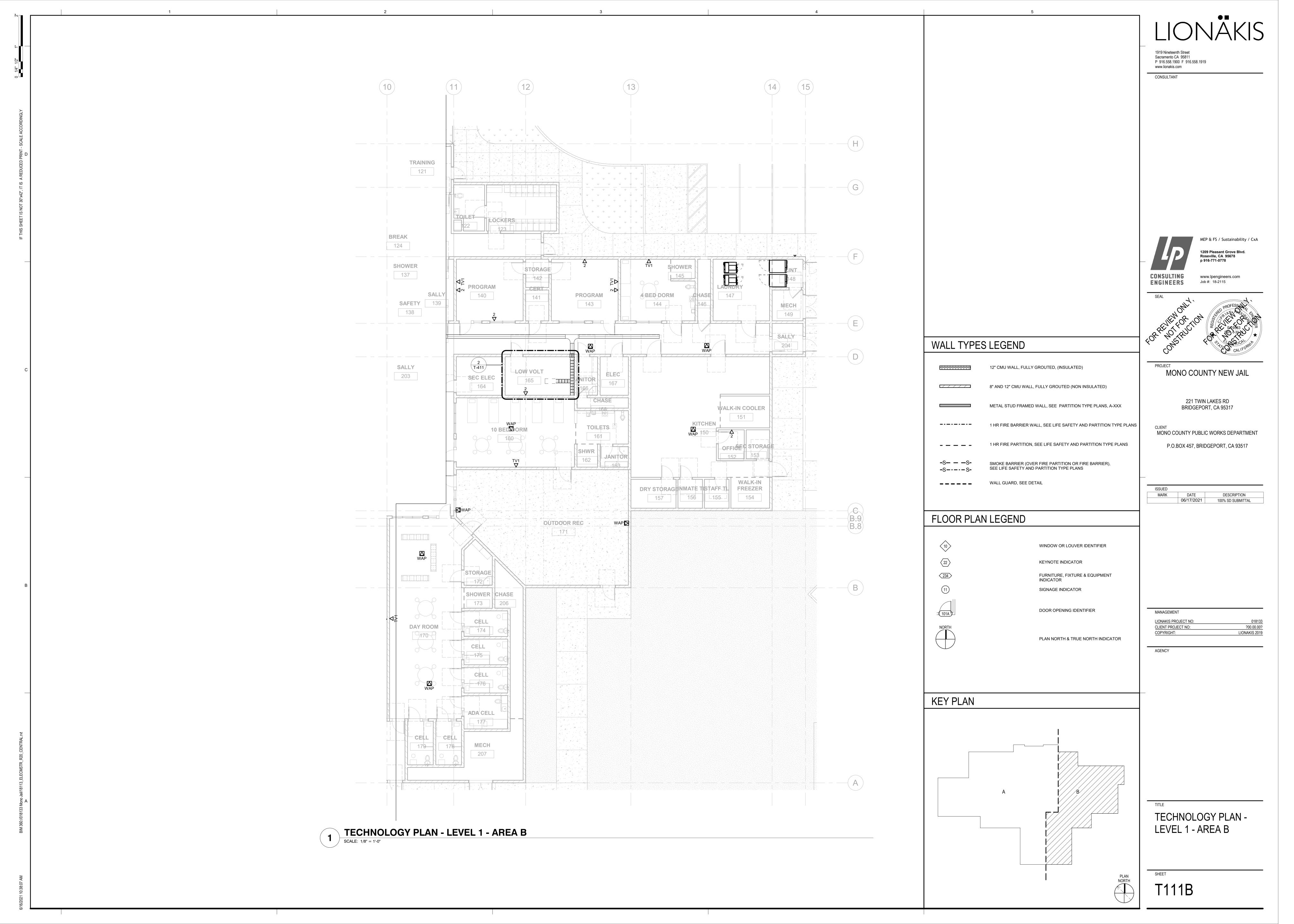
MARK

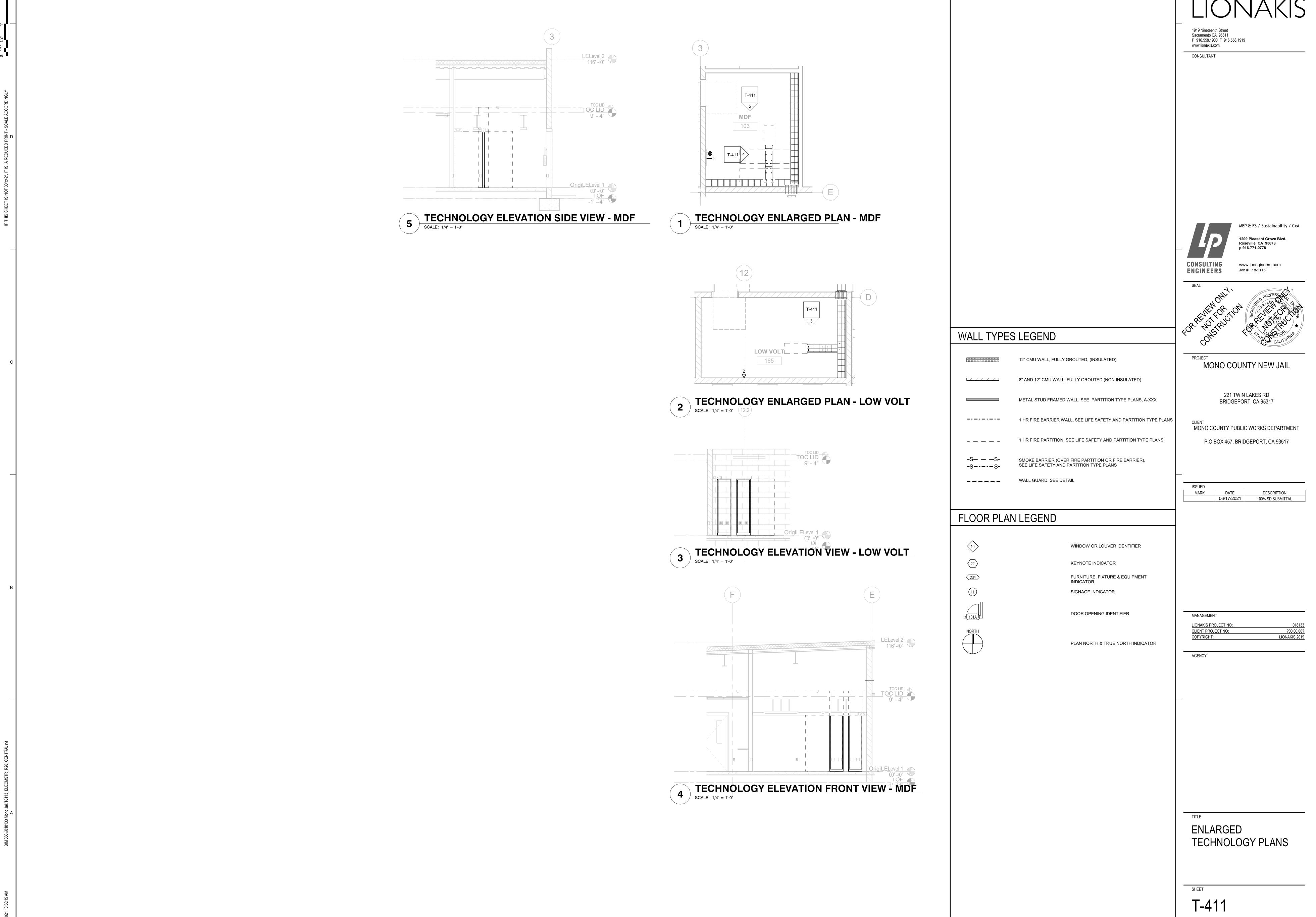
TECHNOLOGY SYMBOL LEGEND



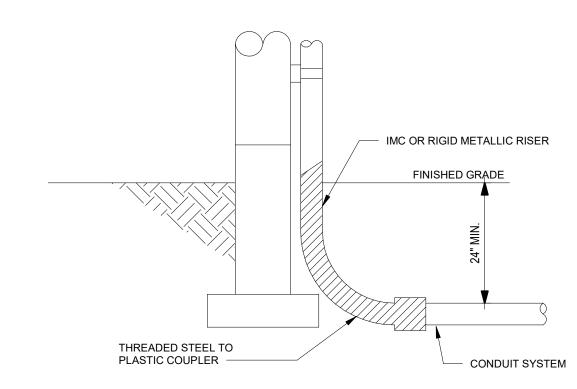






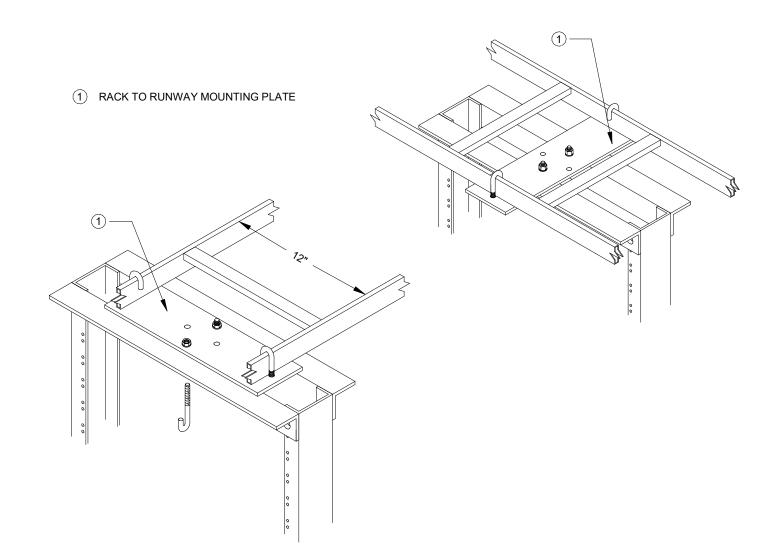


WALL MOUNTED TELECOMMUNICATION GROUND BUS BAR DETAIL

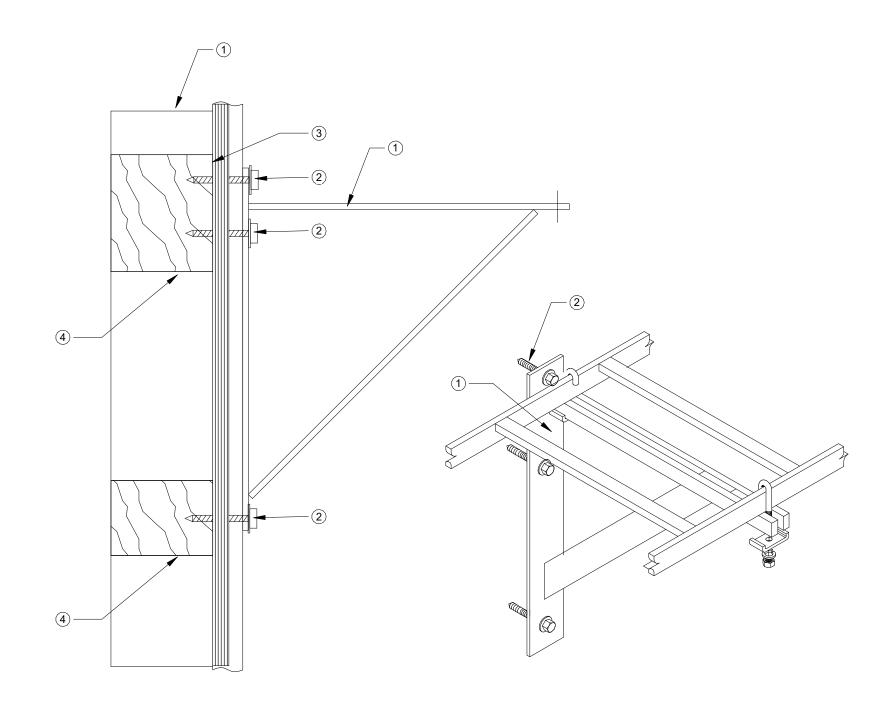


90° BEND METALLIC RISER COUPLED TO PVC

SCALE: 1/4" = 1'-0"



RACK TO RUNWAY MOUNTING PLATE DETAIL
SCALE: N.T.S.

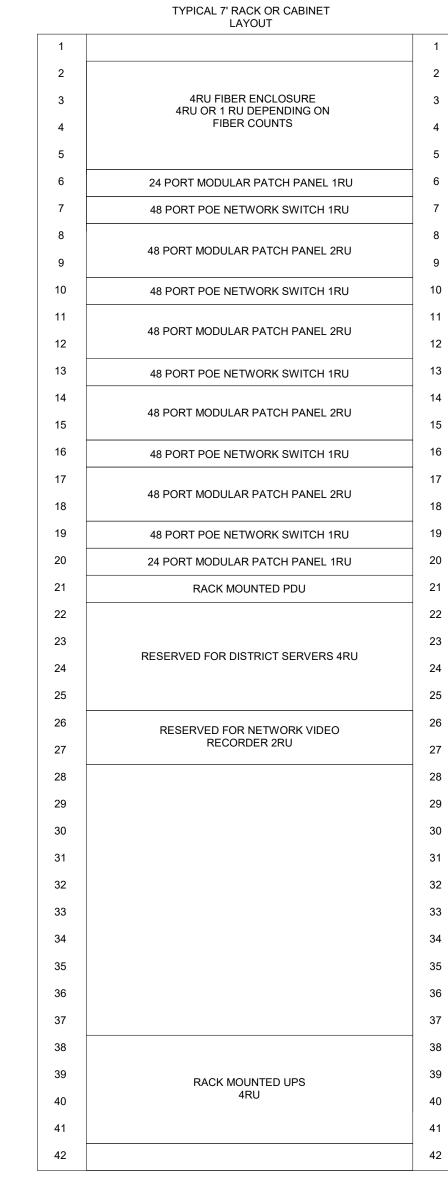


1 TRIANGULAR SUPPORT BRACKET ALIGN WITH WOOD OR METAL STUD. 2 • 3/8" LAG BOLT TO ACHIEVE 2-1/2" PENETRATION INTO SOLID. (WOOD CONTRUCTION) • # 14 x 3" HEX HEAD WITH WASHER SELF TAPPING SMS SCREW INTO METAL BACKING. (STEEL CONSTRUCTION) 3 METAL BACKING OR WOOD BLOCKING 4) 2X WOOD OR 16 GA. MIN. METAL STUDS WHERE OCCURS

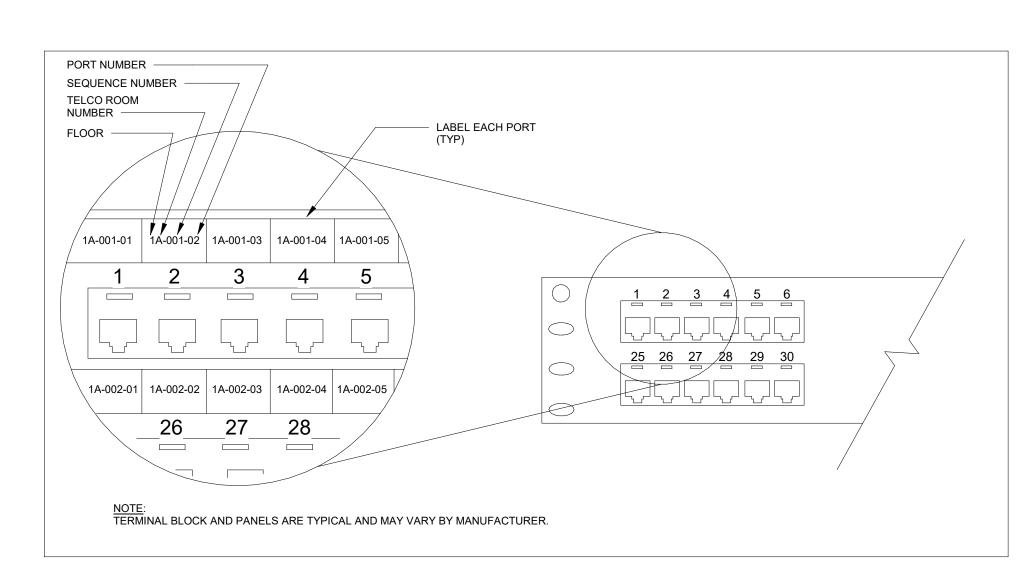
TRIANGULAR SUPPORT BRACKET DETAIL

(N) 7' RACK ASSEMBLY, 1500 LB EQUIPMENT LOAD RATING RACK FLOOR MOUNT PLATE NOTE (TYP. CONDITION):
HILTI - HKB -TZ 5/8" WITH 4" EMBEDMENT
BIT DIAMETER: 5/8 IN.
PRODUCT NAME: HILTI CONCRETE ANCHOR
METAL COMPOSITION: CARBON STEEL
THREAD DIAMETER: 5/8 IN.
MIN EMBEDMENT DEPTH: 4" IN. INTO MINIMUM 6" THICK CONCRETE ANCHOR BOLT MOUNTING ATTACHMENT TIGHTEN BOLT OR NUT TO 60 FT/LBS. SEE OPM-0261-13 CALCULATION SEE OPM-0261-13 PRE-APPROVAL NOTE (@ ELEVATED CONCRETE OVER METAL DECK CONDITION):
HILTI - HKB -TZ 1/2" WITH 2" EMBEDMENT
BIT DIAMETER: 1/2 IN.
PRODUCT NAME: HILTI CONCRETE ANCHOR
METAL COMPOSITION: CARBON STEEL
THREAD DIAMETER: 1/2 IN.
MIN EMBEDMENT DEPTH: 2" IN. INTO MINIMUM 3-1/4" CONCRETE

FLOOR MOUNTING FOR RACK



TYPICAL TELECOM IDF CABINET PLAN



TYPICAL COPPER PATCH PANEL LABELING DETAIL

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TECHNOLOGY DETAILS

2-PORT RJ45 JACK FACE PLATE END POINT 4-PORT RJ45 JACK FACE PLATE END POINT FIRST FLOOR FIRST FLOOR -**GROUP NUMBER** - GROUP NUMBER AV101 @ D101 - CABLE IDENTIFIER, TYP. - CABLE IDENTIFIER, TYP. TO DATA CAT6A CABLE
PATCH PANEL
RJ-45 JACK ■ TO DATA PATCH PANEL PATCH PANEL TO DATA CAT6A CABLE
PATCH PANEL RJ-45 JACK TO DATA PATCH PANEL TO DATA TO DATA PATCH PANEL PATCH PANEL CONTRACTOR SHALL REFERENCE CONTRACTOR SHALL REFERENCE TERMINATION SCHEDULE FOR LOW TERMINATION SCHEDULE FOR LOW **VOLTAGE ROOMS VOLTAGE ROOMS** LEAVE BLANK LEAVE BLANK

DATA 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT

DATA 2-PORT WORKSTATION FACE PLATE & JACK LAYOUT STANDARD 2-PORT & 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT AT

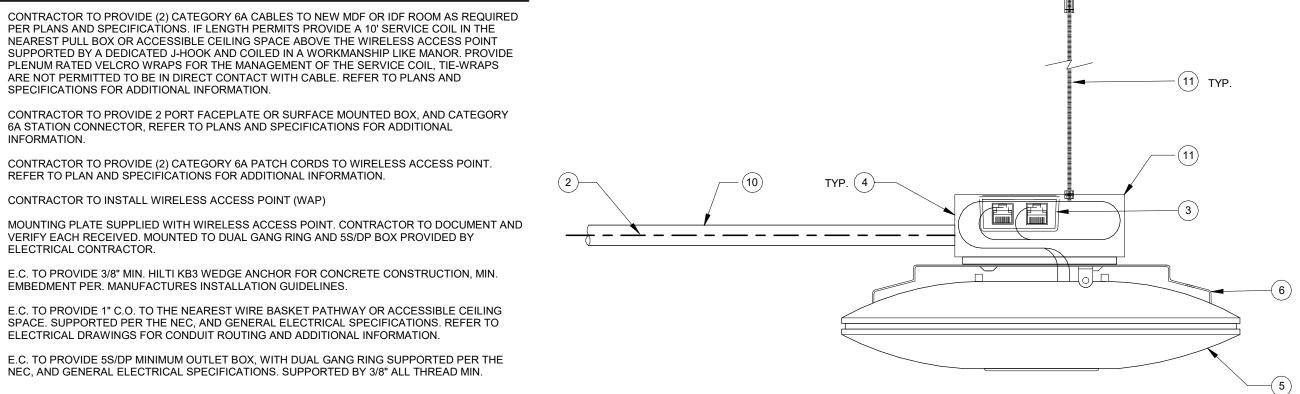
HUDDLE DISPLAY

KEYNOTES

- 1. CONTRACTOR TO PROVIDE (2) CATEGORY 6A CABLES TO NEW MDF OR IDF ROOM AS REQUIRED PER PLANS AND SPECIFICATIONS. IF LENGTH PERMITS PROVIDE A 10' SERVICE COIL IN THE NEAREST PULL BOX OR ACCESSIBLE CEILING SPACE ABOVE THE WIRELESS ACCESS POINT SUPPORTED BY A DEDICATED J-HOOK AND COILED IN A WORKMANSHIP LIKE MANOR. PROVIDE PLENUM RATED VELCRO WRAPS FOR THE MANAGEMENT OF THE SERVICE COIL, TIE-WRAPS ARE NOT PERMITTED TO BE IN DIRECT CONTACT WITH CABLE. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR TO PROVIDE 2 PORT FACEPLATE OR SURFACE MOUNTED BOX, AND CATEGORY 6A STATION CONNECTOR, REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL
- 3. CONTRACTOR TO PROVIDE (2) CATEGORY 6A PATCH CORDS TO WIRELESS ACCESS POINT. REFER TO PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4. CONTRACTOR TO INSTALL WIRELESS ACCESS POINT (WAP)
- 5. MOUNTING PLATE SUPPLIED WITH WIRELESS ACCESS POINT. CONTRACTOR TO DOCUMENT AND VERIFY EACH RECEIVED. MOUNTED TO DUAL GANG RING AND 5S/DP BOX PROVIDED BY ELECTRICAL CONTRACTOR.
- 6. E.C. TO PROVIDE 3/8" MIN. HILTI KB3 WEDGE ANCHOR FOR CONCRETE CONSTRUCTION, MIN.
- EMBEDMENT PER. MANUFACTURES INSTALLATION GUIDELINES. 7. E.C. TO PROVIDE 1" C.O. TO THE NEAREST WIRE BASKET PATHWAY OR ACCESSIBLE CEILING

NEC, AND GENERAL ELECTRICAL SPECIFICATIONS. SUPPORTED BY 3/8" ALL THREAD MIN.

ELECTRICAL DRAWINGS FOR CONDUIT ROUTING AND ADDITIONAL INFORMATION. 8. E.C. TO PROVIDE 5S/DP MINIMUM OUTLET BOX, WITH DUAL GANG RING SUPPORTED PER THE



TEL-WAP MOUNTED IN OPEN CEILING SPACE DETAIL

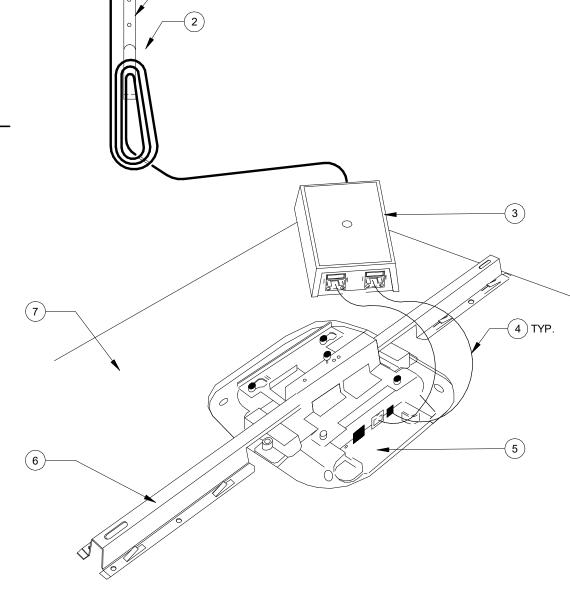
SCALE: 12" = 1'-0"

KEYNOTES

- 1. CONTRACTOR TO PROVIDE J-HOOKS FOR EVERY 48"-60" FOR ACCESSIBLE CEILING CEILING SPACES. VERIFY PATHWAY INSTALLATION PLAN WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION, AND REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- 2. CONTRACTOR TO PROVIDE (2) CATEGORY 6A CABLES TO NEW MDF OR IDF ROOM AS REQUIRED PER PLANS AND SPECIFICATIONS. IF LENGTH PERMITS PROVIDE A 10' SERVICE COIL IN THE NEAREST PULL BOX OR ACCESSIBLE CEILING SPACE ABOVE THE WIRELESS ACCESS POINT SUPPORTED BY A DEDICATED J-HOOK AND COILED IN A WORKMANSHIP LIKE MANOR. PROVIDE PLENUM RATED VELCRO WRAPS FOR THE MANAGEMENT OF THE SERVICE COIL, TIE-WRAPS ARE NOT PERMITTED TO BE IN DIRECT CONTACT WITH CABLE. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 3. CONTRACTOR TO PROVIDE 2 PORT FACEPLATE OR SURFACE MOUNTED BOX, AND CATEGORY 6A STATION CONNECTOR, REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL
- 4. CONTRACTOR TO PROVIDE (2) CATEGORY 6A PATCH CORDS TO WIRELESS ACCESS POINT. REFER TO PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. CONTRACTOR TO INSTALL WIRELESS ACCESS POINT (WAP)

7. CEILING TILE / CEILING GRID SYSTEM (ACCESSIBLE CEILING SPACE).

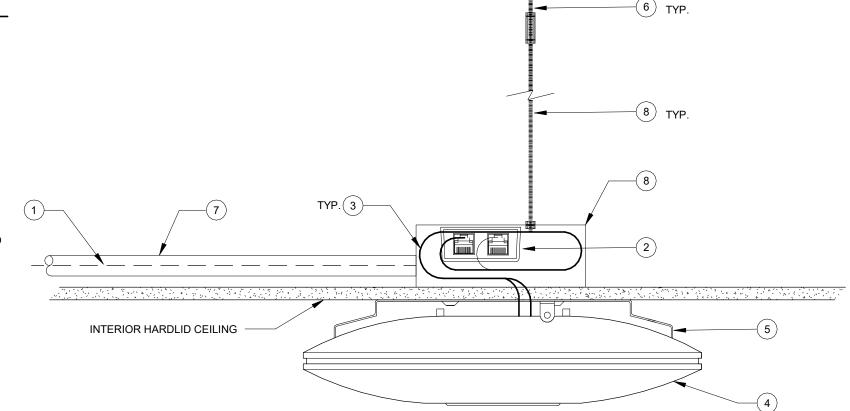
6. CONTRACTOR TO PROVIDE A MOUNT BRACKET FOR ALL ACCESSIBLE CEILING MOUNTED WIRELESS ACCESS POINTS. MOUNT PER MANUFACTURES INSTALLATION GUIDELINES.



3 WAP MOUNTED TO CEILING TILE DETAIL
SCALE: 12" = 1'-0"

KEYNOTES

- 1. CONTRACTOR TO PROVIDE (2) CATEGORY 6A CABLES TO NEW MDF OR IDF ROOM AS REQUIRED PER PLANS AND SPECIFICATIONS. IF LENGTH PERMITS PROVIDE A 10' SERVICE COIL IN THE NEAREST PULL BOX OR ACCESSIBLE CEILING SPACE ABOVE THE WIRELESS ACCESS POINT SUPPORTED BY A DEDICATED J-HOOK AND COILED IN A WORKMANSHIP LIKE MANOR. PROVIDE PLENUM RATED VELCRO WRAPS FOR THE MANAGEMENT OF THE SERVICE COIL, TIE-WRAPS ARE NOT PERMITTED TO BE IN DIRECT CONTACT WITH CABLE. REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE 2 PORT FACEPLATE OR SURFACE MOUNTED BOX, AND CATEGORY 6A STATION CONNECTOR, REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL 3. CONTRACTOR TO PROVIDE (2) CATEGORY 6A PATCH CORDS TO WIRELESS ACCESS POINT.
- REFER TO PLAN AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. 4. CONTRACTOR TO INSTALL WIRELESS ACCESS POINT (WAP)
- 5. MOUNTING PLATE SUPPLIED WITH WIRELESS ACCESS POINT. CONTRACTOR TO DOCUMENT AND VERIFY EACH RECEIVED. MOUNTED TO DUAL GANG RING AND 5S/DP BOX PROVIDED BY ELECTRICAL CONTRACTOR.
- EMBEDMENT PER. MANUFACTURES INSTALLATION GUIDELINES. 7. E.C. TO PROVIDE 1" C.O. TO THE NEAREST WIRE BASKET PATHWAY OR ACCESSIBLE CEILING SPACE. SUPPORTED PER THE NEC, AND GENERAL ELECTRICAL SPECIFICATIONS. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT ROUTING AND ADDITIONAL INFORMATION.
- 6. E.C. TO PROVIDE 3/8" MIN. HILTI KB3 WEDGE ANCHOR FOR CONCRETE CONSTRUCTION, MIN. 8. E.C. TO PROVIDE 5S/DP MINIMUM OUTLET BOX, WITH DUAL GANG RING SUPPORTED PER THE NEC, AND GENERAL ELECTRICAL SPECIFICATIONS. SUPPORTED BY 3/8" ALL THREAD MIN.



4 WAP MOUNTED TO HARDLID - INACCESSIBLE CEILING DETAIL

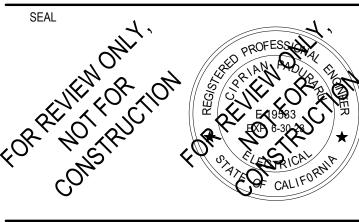
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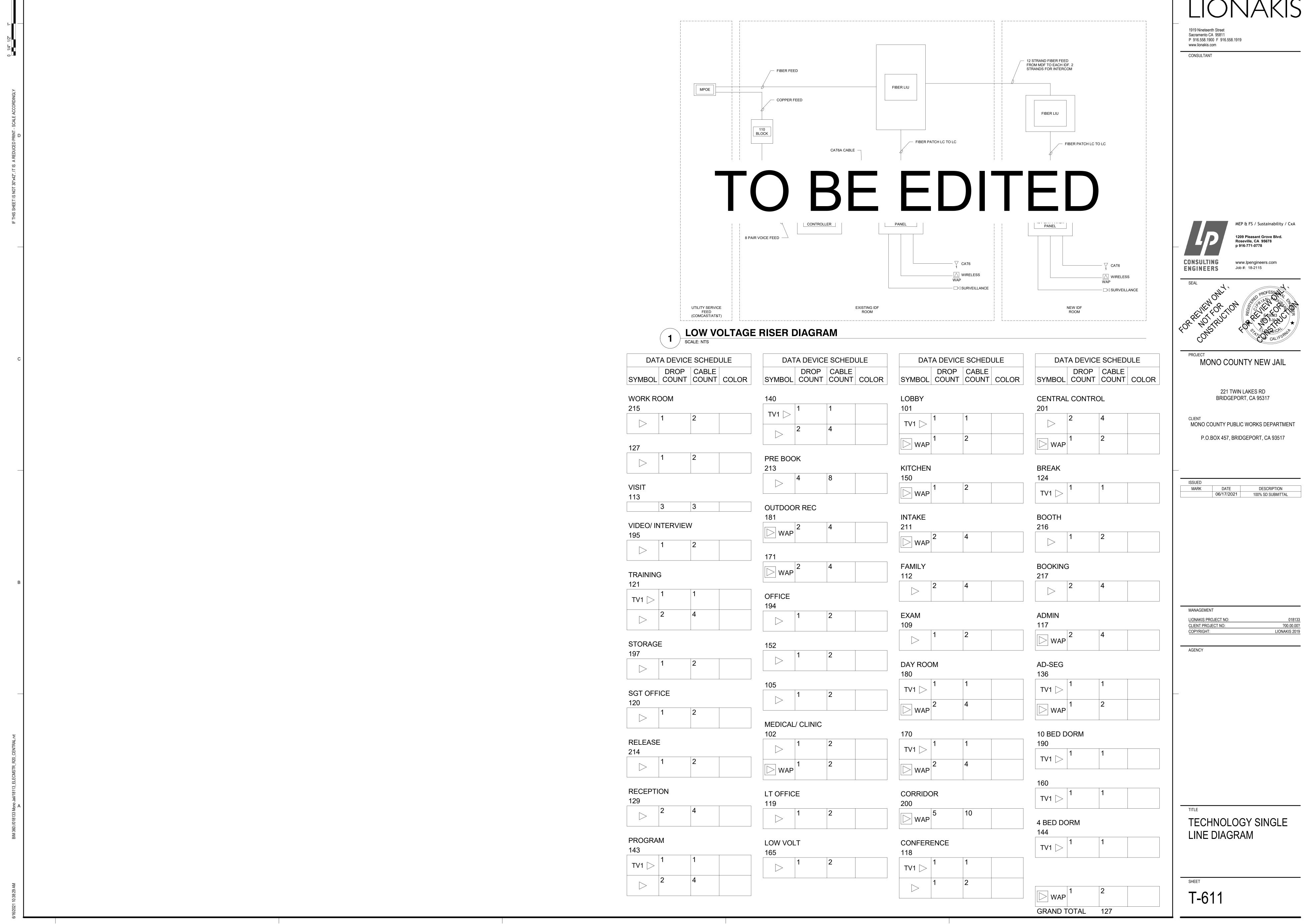
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TECHNOLOGY DETAILS



SYMBOLS LEGEND - ELECTRONIC SECURITY SYSTEMS

NOT ALL SYMBOLS WILL BE USED ON THIS PROJECT

VIDEO	SURVEIL	LANCE	SYST	<u> EMS</u>

NEW IP FIXED CAMERA NEW IP CAMERA WITH PAN-TILT ZOOM DRIVE UNIT NEW 180° FISHEYE IP CAMERA, 12MP NEW 360° FISHEYE IP CAMERA, 12MP NEW 180° MULTISENSOR CAMERA, HEIGHT AS INDICATED NEW 180° MULTISENSOR CAMERA, HEIGHT AS INDICATED NEW 270° MULTISENSOR CAMERA, HEIGHT AS INDICATED NEW 360° MULTISENSOR CAMERA WALL BRACKET SYMBOL INDICATES SECURITY DEVICE SHALL BE WALL MOUNTED, HEIGHT AS INDICATED

ELECTRONIC/DOOR/ACCESS CONTROL SYSTEMS

	ELECTRUNIC/DOOR/ACCESS CONTROL STSTEWS
	ELECTRIC DOOR STATUS INDICATOR DEVICE. SEE HARDWARE AND DOOR SCHEDULE FOR FUNCTIONAL DESCRIPTION
	ELECTRIC CONTROLLED DOOR. SEE HARDWARE AND DOOR SCHEDULES FOR FUNCTIONAL DESCRIPTION
	ELECTRIC CONTROLLED AND MONITORED DOOR. SEE HARDWARE AND DOOR SCHEDULES FOR FUNCTIONAL DESCRIPTION
■ K	ELECTRIC CONTROLLED AND MONITORED DOOR K — ELECTRICALLY OPERATED BY KEY
	INTERLOCK GROUP
X	EXIT CALL LIGHT
TS	TOUCHSCREEN STATION
ECS	ELECTRONIC CONTROL SYSTEM EQUIPMENT
<u> </u>	CARD READER FOR ACCESS CONTROL
P ^G	CARD READER FOR ACCESS CONTROL GLASS MOUNTED
₽P	CARD READER FOR ACCESS CONTROL PEDESTAL MOUNTED
, L/D	OLDS DELDES FOR LOSESS CONTROL

CARD READER FOR ACCESS CONTROL

DURESS ALARM PUSHBUTTON LIGHT (WALL MOUNTED)

KEYPAD COMBINATION

COMMUNICATION SYSTEMS

$\vdash \! \! \bigotimes$	INTERCOM STATION, WALL MOUNTED, WITH CALL-IN PUSH-BUTTON
⊢⊗ _F	INTERCOM STATION, FRAME MOUNTED
• •	INTERCOM STATION, POLE MOUNTED
\otimes	INTERCOM SPEAKER, CEILING MOUNTED, RECESSED, SECURITY TYPE
S	INTERCOM SPEAKER, CEILING MOUNTED, SURFACE
$\bigotimes_{\iota_{m{v}}}^{D}$	STAFF INTERCOM STATION, DESK MOUNTED
⊢⊙	CALL PUSH-BUTTON
⊢⊕F	CALL PUSH-BUTTON FRAME MOUNTED
▼	PAGING SPEAKER, CEILING MOUNTED, RECESSED, SECURITY TYPE INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING. CORRIDORS AND GENERAL CIRCULATION: ONE-WAY PAGING.
∞ ^W	PAGING SPEAKER, WALL MOUNTED, RECESSED, SECURITY TYPE, HEIGHT AS INDICATED • INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING.

• CORRIDORS AND GENERAL CIRCULATION: ONE—WAY PAGING.

PAGING HORN, WALL MOUNTED, RECESSED WITH VANDAL

WIRE TYPE LEGEND

DATA CABLE/CAT 6 FIBER OPTIC CABLE

ECHIDMENT ARRDEVIATIONS

	EQUIPMENT ABBREVIATIONS	KP	HIRSCH KEYPAD FOR ACCESS CONTROL WALL MOUNTED
VMS	VIDEO MANAGEMENT SERVER	•	REQUEST TO EXIT SWITCH (MICRO-SWITCH) TO BE BUILT IN THE LOCK AND PROVIDED BY THE DOOR
VW#	VIDEO WORK STATION (NUMBER REPRESENTS INSTANCE)	_	HARDWARE CONTRACTOR
"		S	REQUEST TO EXIT SWITCH DESK/SURFACE MOUNTED
TS#	TOUCHSCREEN WORK STATION (NUMBER REPRESENTS INSTANCE)	W	REQUEST TO EXIT PUSHBUTTON WALL MOUNTED
VVS	VIDEO VISITATION STATION		
ICS	INTERCOM CONTROL SYSTEM	H(P)	KEY SWITCH, WALL MOUNTED WITH OPEN STOP CLOSE FUNCTION TO BE PROVIDED BY DOOR MANUFACTURER
ECS	ELECTRONIC CONTROL SYSTEM	Ds	DURESS ALARM PUSHBUTTON STATION (DESK/SURFACE MOUNTED)
LUJ	ELLCTRONIC CONTROL STSTEM	⊢D	DURESS ALARM PUSHBUTTON STATION (WALL MOUNTED)
ACS	ACCESS CONTROL SYSTEM	: _F	` ,
ACP	ACCESS CONTROL PANEL	H_D	DURESS ALARM PUSHBUTTON STATION (FRAME MOUNTED)
AUI	ACCESS CONTROL FAMEL	D	DURESS ALARM PUSHBUTTON LIGHT (CEILING MOUNTED)
UPS	UNINTERRUPTIBLE POWER SUPPLY		DUDESS ALADM DUSUDUTION LIGHT (WALL MOUNTED)

MISCELLANIECLIS

MICROPHONE, CEILING MOUNTED

MICROPHONE, WALL MOUNTED

RESISTANT GRILL, HEIGHT AS INDICATED

	MISCELLANEOUS
TSP	TRANSIENT SURGE PROTECTOR
	120VAC DUPLEX RECEPTACLE BY DIVISION 26. NORMAL POWER CIRCUIT
E	120VAC DUPLEX RECEPTACLE BY DIVISION 26. EMERGENCY POWER CIRCUIT
	120VAC DUPLEX RECEPTACLE BY DIVISION 26. UPS POWER CIRCUIT
(J) E	ELECTRICAL CONNECTION BY DIVISION 26. EMERGENCY POWER CIRCUIT. CHARACTERISTICS AS NOTED
\bigcirc U	ELECTRICAL CONNECTION BY DIVISION 26. UPS POWER CIRCUIT. CHARACTERISTICS AS NOTED
P	PULL BOX. (NO TERMINATION'S PERMITTED PULL POINT ONLY.)

EQUIPMENT CABINET

CALL INITIATION

EQUIPMENT ENCLOSURE

GROUNDING ELECTRODE & CONDUCTOR

VEHICLE DETECTION FOR INTERCOM

NOTES:

- 1. PROVIDE CONDUIT, WIREWAYS, BOXES, FITTINGS AND SUPPORTS FOR A COMPLETE RACEWAY SYSTEMS FOR THE ELECTRONIC SECURITY SYSTEM. WHERE PULLBOXES ARE PROVIDED IN NON-ACCESSIBLE AREAS, PROVIDE ACCESS
- 2. ALL ELECTRONIC SECURITY EQUIPMENT TO BE LOCATED ON WALLS SHALL BE RECESSED MOUNTED (EXCEPT IN EQUIPMENT ROOMS). BRANCH WIRING/HOMERUN CONDUITS TO SUCH EQUIPMENT SHALL BE CONCEALED IN CEILINGS, FLOOR SLABS AND WALLS. SURFACE MOUNTED CONDUITS NOT PERMITTED.
- 3. ALL CONDUITS SHALL BE SIZED FOR MAXIMUM 40 PERCENT FILL. ALL CONDUCTORS SHALL BE INCLUDED IN FILL CALCULATIONS. MINIMUM CONDUIT SIZE SHALL BE 3/4". USE PLENUM CABLE WHERE REQUIRED BY CODE. USE WATERBLOCKED OR DIRECT BURIAL CABLE WHERE CONDUIT RUNS UNDERGROUND OUTSIDE OF THE BUILDING.
- 4. SEPARATE CONDUITS SHALL BE PROVIDED FOR EACH SYSTEM TYPE AND FOR NEC CLASS SEPARATION. USE CL2 POWER SUPPLIES FOR LOCK MODELS WHERE RECOMMENDED BY LOCK MANUFACTURER. SOURCE PLC I/O POWER FROM MANUFACTURER RECOMMENDED NEC CLASS # SUPPLY. IF DPS AND LOCK CABLING IS RUN IN THE SAME CONDUIT, THEY MUST BE THE SAME NEC CLASS. USE INTERPOSING RELAYS AT HEAD END FOR STATUS/ALARM INPUTS IF PLC I/O POWER IS A DIFFERENT NEC CLASS THAN LOCK/STATUS POWER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH NEC CLASS SEPARATION AND MFR RECOMMENDATIONS AND TO COORDINATE ACCORDINGLY.
- 5. COORDINATE INSTALLATION AND SUPPORT SYSTEMS WITH WORK OF OTHER TRADES. PROVIDE IDENTIFICATION OF RACEWAY SYSTEMS FOR ELECTRONIC SECURITY PER SPECIFICATIONS.

SUBSCRIPTS FOR ALL SYMBOLS:

- CONDUIT
- SURFACE MOUNTED
- ABOVE FINISHED FLOOR
- ABOVE FINISHED GRADE
- EXISTING TO REMAIN/MAINTAINED
- EXISTING TO BE ABANDONED IN PLACE
- EXISTING TO BE REMOVED AND TURNED OVER TO OWNER
- EXISTING TO BE REMOVED, RELOCATED AND RECONNECTED
- RELOCATED EXISTING
- FRAME MOUNTED SECURITY DEVICE

CONDUIT FILL SCHEDULE (EMT)

SIZE	40% AREA	LONG RANGE OUTDOOR READER (WEST PENN AQC3186 & AQC225)	INDOOR READER (WEST PENN 3270)	PAGING SPEAKERS / ALARMS (WEST PENN 224)	2-WAY PAGING SPEAKERS (WEST PENN 293)	COMMERCIAL DOOR STRIKE + DPS (CL2) (WEST PENN #244)	ELECTRO MECHANICAL SLIDER (CL1) (5-#14 THHN + 2-#18 TFFN BUNDLE)	ELECTRO MECHANICAL HALF CYCLE (CL1 OR CL2) (5-#14 THHN + 2-#18 TFFN BUNDLE)	CAT 6 (WEST PENN 4246)	FIBER OPTIC CABLE (OM3) FOR MEDIA CONVERTERS INDOOR/OUTDOOR 4 STRAND (OCC # DX004DALT9QR)
3/4"	0.213	1	9	11	10	8	2	2	5	5
1"	0.346	2	15	19	18	13	4	4	9	10
1 1/4"	0.598	4	28	31	30	22	7	7	15	18
1 1/2"	0.814	6	37	42	40	30	10	10	22	25
2"	1.342	_	61	70	66	51	16	16	35	40
2 1/2"	2.343	_	_	122	116	89	29	29	61	_
3"	3.538	-	_	185	175	134	44	44	93	_
3 1/2"	4.618	-	_	241	230	175	58	58	121	_
4"	5.901	-	_	308	293	224	74	74	155	_

(MFR PART NUMBERS USED FOR MINIMUM SPECS REFERENCE ONLY)

Sacramento CA 95811

P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT

LATTA TECHNICAL SERVICES INC. 1255 West 15th Street, Suite 300 Plano, TX 75075 T: (972) 633-5850 F: (469)467-0300

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MICHAEL J. SMITH, P.E. CALIFORNIA REGISTRATION #38164 DATE: 10, JUNE 2021

MONO COUNTY NEW JAIL

221 TWIN LAKES RD BRIDGEPORT, CA 95317

MONO COUNTY PUBLIC WORKS DEPARTMENT P.O.BOX 457, BRIDGEPORT, CA 93517

DESCRIPTION 06/17/2021 100% SD SUBMITTAL

MANAGEMENT LIONAKIS PROJECT NO CLIENT PROJECT NO: ?00.00.00? LIONAKIS 2019

ELECTRONIC SECURITY SYMBOLS LEGEND

TY-001

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NOTES BY SYMBOL (\bigcirc)

1 DUAL LEVEL PEDESTAL WITH INTERCOM/CARD READER AND CAMERA. 2 PEDESTAL WITH CARD READER.

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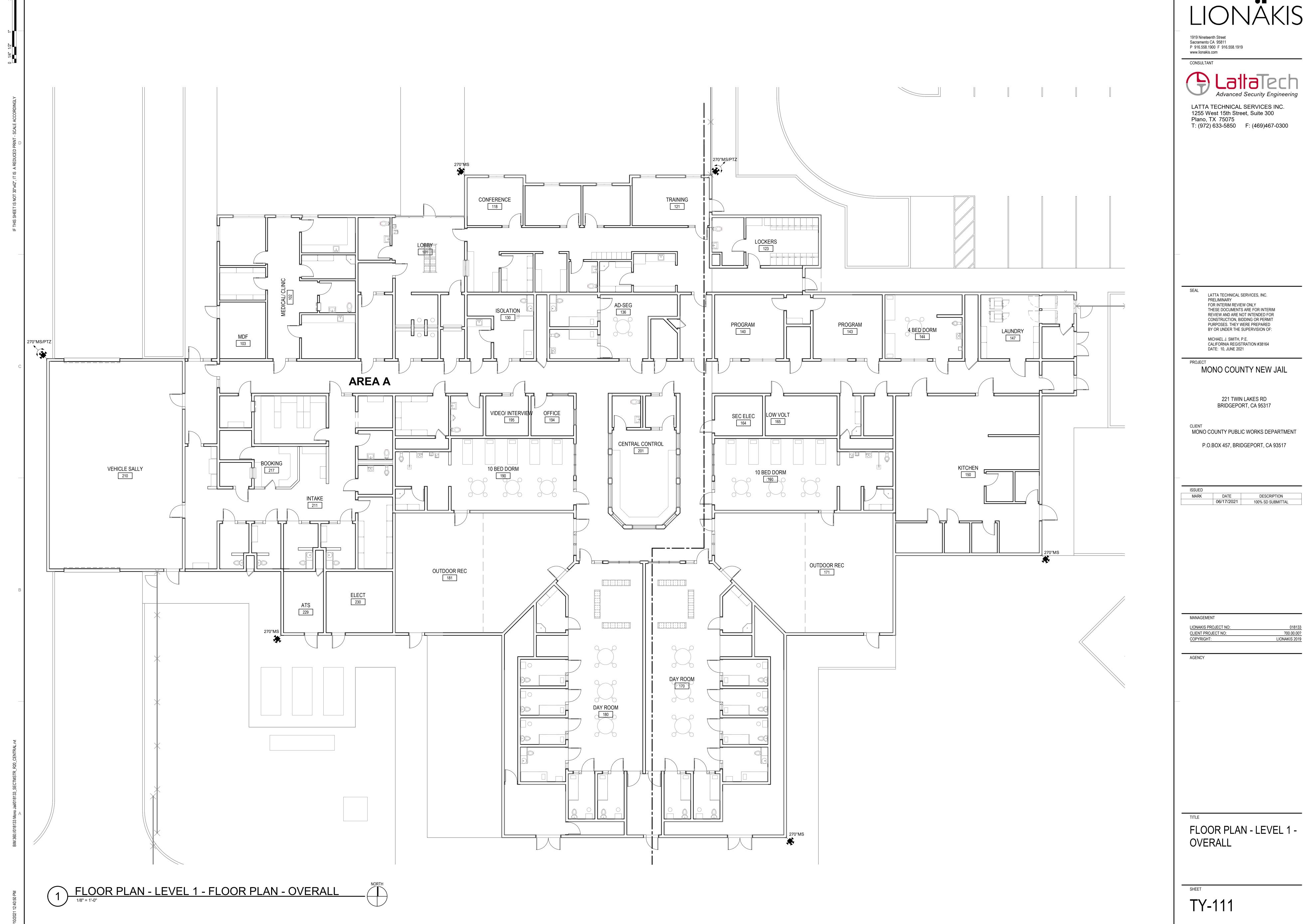
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MANAGEMENT

018133 ?00.00.00? LIONAKIS 2019 **CLIENT PROJECT NO:**

SITE PLAN

TYS101



LIONAKIS

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MARK DATE DESCRIPTION

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MANAGEMENT

LIONAKIS PROJECT NO: 018133

CLIENT PROJECT NO: ?00.00.00?

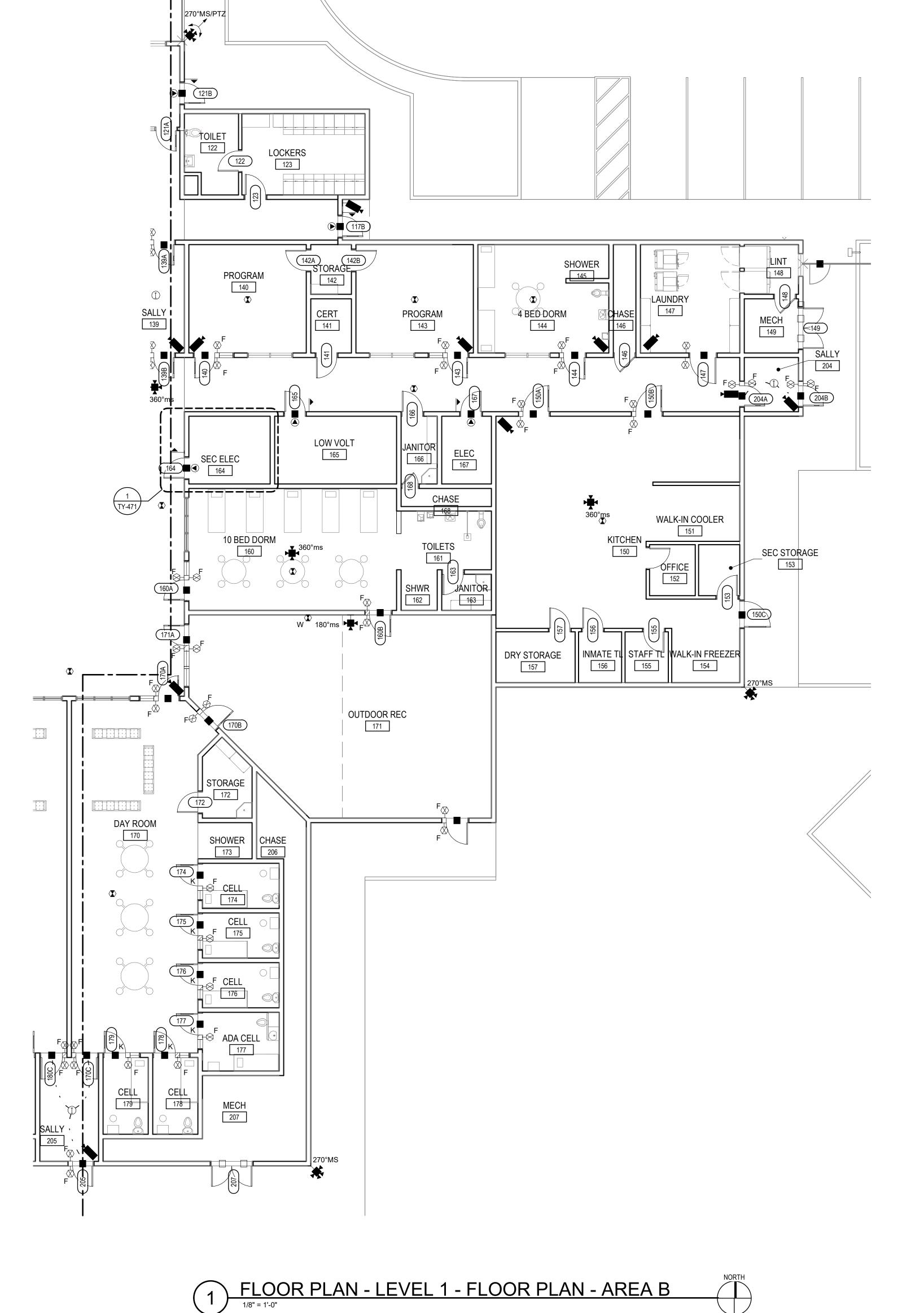
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AGENCY

FLOOR PLAN - LEVEL 1-AREA A

TY-111A





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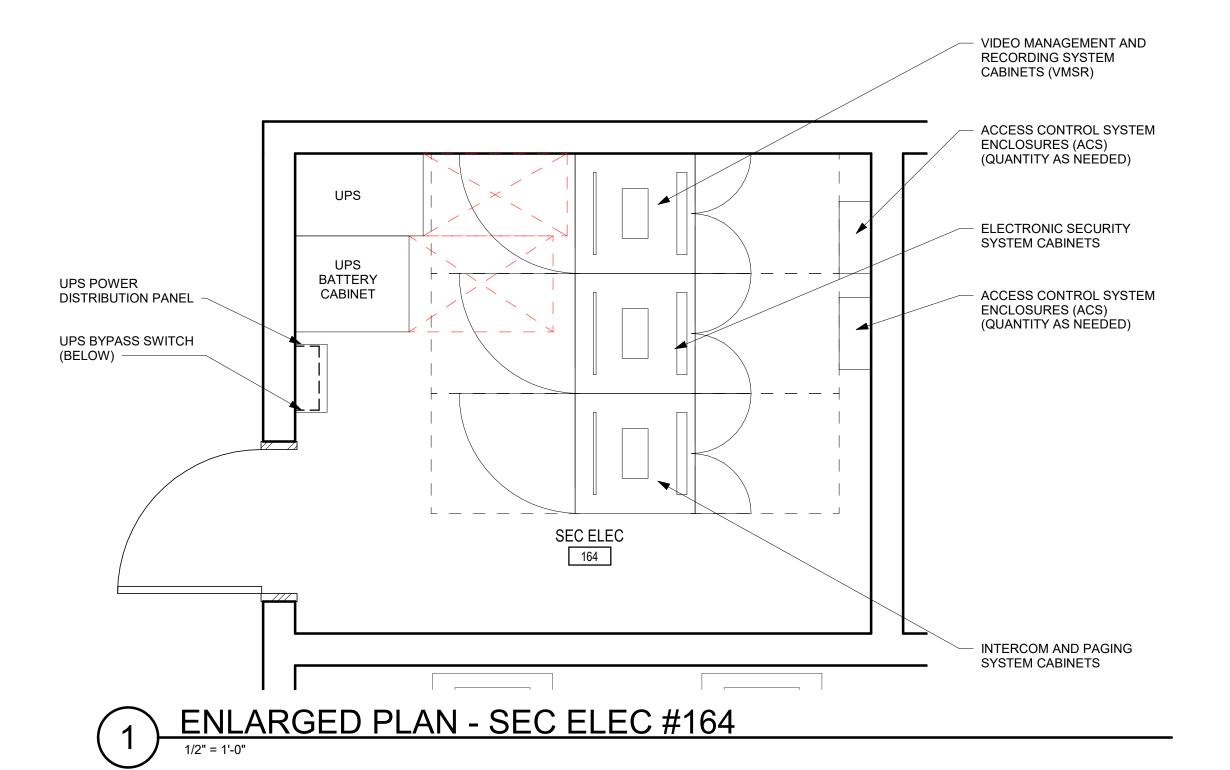
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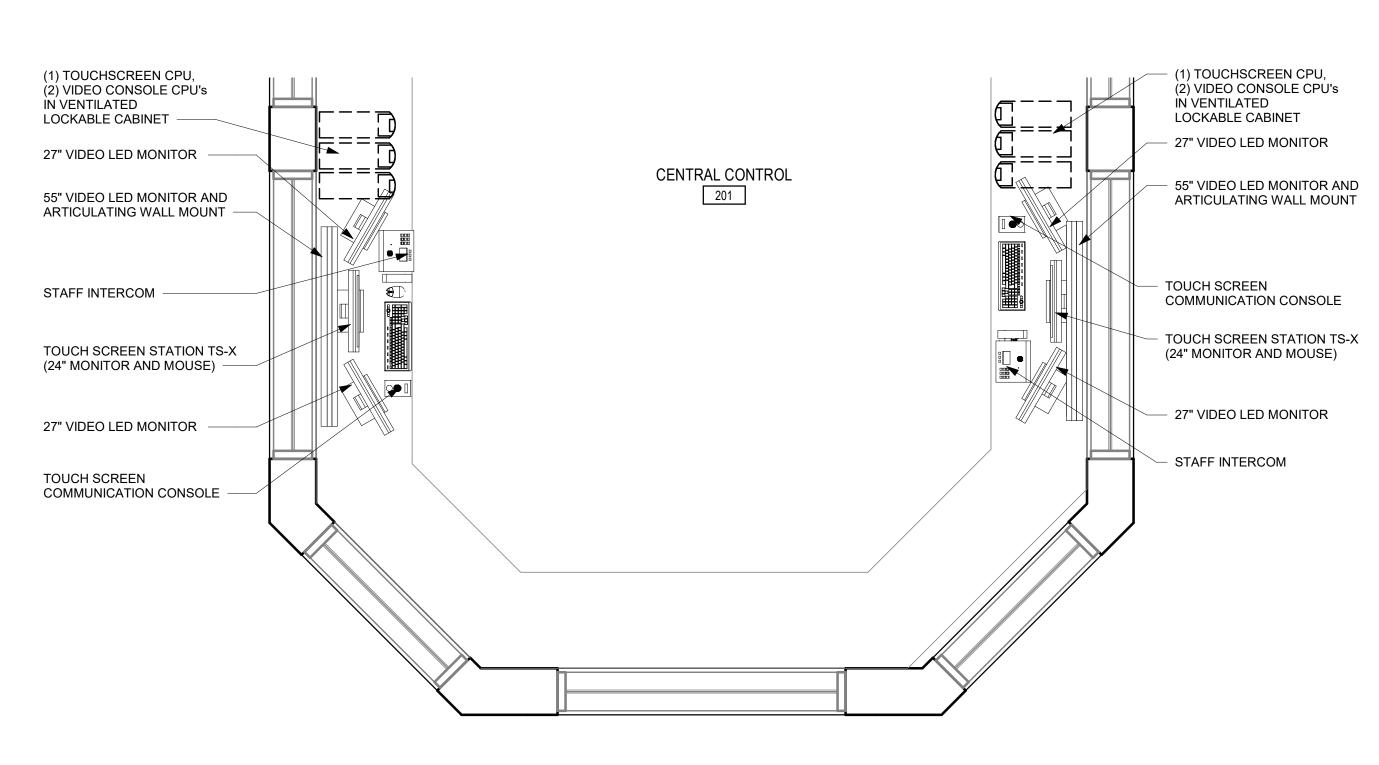
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MANAGEMENT 018133 ?00.00.00? LIONAKIS 2019 CLIENT PROJECT NO:

FLOOR PLAN - LEVEL 1 -AREA B

TY-111B





2 ENLARGED PLAN - CENTRAL CONTROL #201

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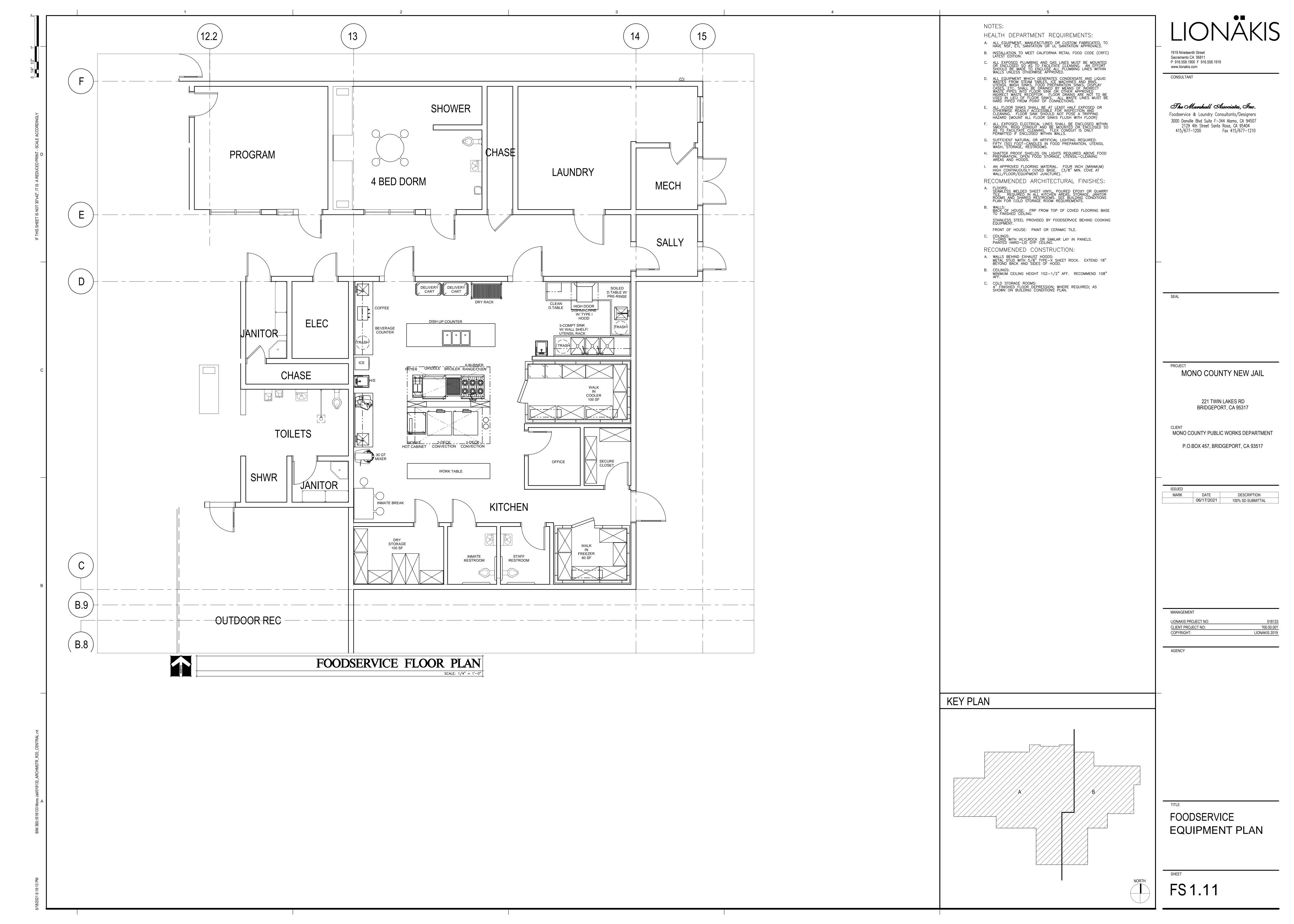
DATE 06/17/2021 DESCRIPTION 100% SD SUBMITTAL

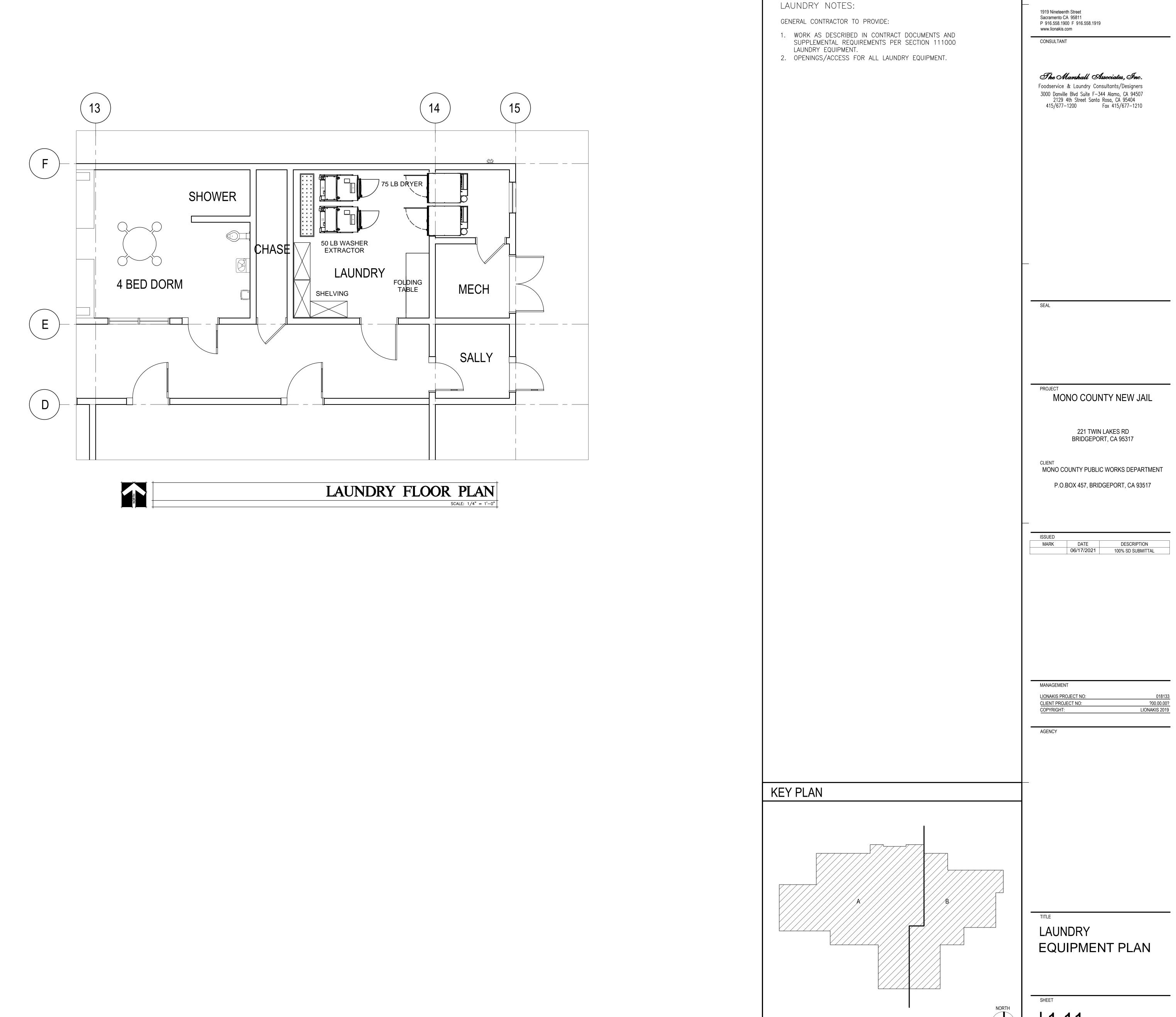
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AGENCY

ENLARGED PLANS

TY-471





 DATE
 DESCRIPTION

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