

SUSANVILLE, CA 96130 LASSEN COUNTY HISTORIC COURTHOUSE LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION SEISMIC UPGRADE, ELEVATOR, AND ACCESSIBILITY IMPROVEMENTS 100% CD OCTOBER 16, 2020

TURA		REVIATIONS					SHE	ET INDEX			
TURA TIONAL STED	LABBE DHM DIA DIM DS DSP DWG DWR EA EGSB EIFS EJ ELEC ELEV EMER EQ EQUIP EW EWC EXH EXP EXT FA FD FD FD FD FD FD FD FD FD FD FD FD FD	REVIATION S DETENTION HOLLOW METAL DIAMETER DIMENSION DOWNSPOUT DRY STANDPIPE DRAWING DRAWER EACH EXTERIOR GYPSUM SHEATHING BOARD EXTERIOR GYPSUM SHEATHING BOARD EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELEVATION ELECTRIC / ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE ELECTRICAL PANEL BOARD EQUAL EQUIPMENT EACH WAY ELECTRIC WATER COOLER EXISTING EXPANSION EXTERIOR FIRE ALARM FLAT BAR FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE EXTINGUISHER FIRE CAG F CONCRETE/CURB FACE OF CONCRETE/CURB FACE OF FINISH FLOORING FLOW LINE FLOOR FACE OF STUD FACE OF STUD FACE OF MASONRY FACE OF STUD FACE OF WALL FIREPROOF FIBERGLASS REINFORCED PLASTIC FEET / FOOT FOOTING FUTURE GROUND; NATURAL GAS GAGE GALVANIZED IRON GLUED LAMINATED WOOD HOSE BIB HOLLOW CORE HARDBOARD HARDWARE HA	MATL MAX MECH MEMB MFR MH MIN MISC MO MR MTD MTL MULL NIC NO NOM NTS O/ OC OD OF/CI OFF OGL OPH OPNG OPP PAF PL AM PLB PLBG PLYWD PNL PROP PSF PSI PT NN PV QT R RD REBAR REF REINF REINF REINF REINF REINF REINF RESIL RM RO RWD RWL SAD SATC SB SCHED SD ST SHT SHT SHT SINT SM SPEC SQ	MATERIAL MAXIMUM MECHANICAL MEMBRANE MANFACTURER MANFACTURER MANHOLE MINIMUM MISCELLANEOUS MASONRY OPENING MOISTURE RESISTANT MOUNTED METAL MULLION NOT IN CONTRACT NUMBER NOMINAL NOT TO SCALE OVER ON CENTER OUTSIDE DIAMETER OWNER FURNISHED / CONTRACTOR INSTALLED OFFICE OBSCURE GLASS OPPOSITE HAND OPENING OPPOSITE POWER ACTUATED FASTENER PROPERTY LINE; PLATE PLASTIC LAMINATE PLUMB PLUMBING PLYWOOD PANEL PROPERTY POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PAINT; PAINT PARTITION PHOTOVOLTAIC QUARRY TILE RADIUS; RISER ROOF DRAIN REINFORCING STEEL BAR REFEIGERATOR REFIGERATOR RESILIENT ROOM ROUGH OPENING RESILIENT ROOM ROUGH OPENING RESILIENT ROOM ROUGH OPENING RESILIENT ROOM ROUGH OPENING SUSPENDED ACOUSTICAL TILE CELING SUSPENDED ACOUSTICAL TILE CELING SPLASH BLOCK SOLID CORE SCHEDULE STORM DRAIN SELF DRIVING, SELF TAPPING SHELT METAL SPECIFICATION SQUARE	STD STL STOR STRUCT SUSP CLG SV SYMM SYS T T&G TEL THK TMH TMPD TO TOC TOF TOJ TOF TOJ TOM TOP TOPO TOS TOW TV TYP UC UNO UON UR VCT VEST VIF VWC VWF W/ W/O WC WD WH WO WP WPM WSCT WT WTR WWR	STANDARD STEEL STORAGE STRUCTURAL SUSPENDED CEILING SHEET VINYL SYMMETRICAL SYSTEM TREAD TONGUE & GROOVE TELEPHONE THICKNESS TOP OF MANHOLE TEMPERED TOP OF CURB TOP OF FRAME TOP OF FRAME TOP OF FRAME TOP OF STEEL TOP OF MASONRY TOP OF STEEL TOP OF STEEL TOP OF WALL TELEVISION TYPICAL UNDER COUNTER/CABINET UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED URINAL VINYL COMPOSITION TILE VERTICAL VESTIBULE VERIFY IN FIELD VINYL WALL FABRIC WITH WITHOUT WATER CLOSET WOOD WATER HEATER WHERE OCCURS WORKING POINT WATERR WEIGHT WATER WEIGHT WATER	GENERAL G-001 ARCHITEC AS-100 AS-101 AS-102 AS-103 AS-501 CIVIL C1 C2 C3 STRUCTUE S-01 S-011 S-012 S-013 S-014 S-111 S-112 S-113 S-114 S-211 S-212 S-213 S-214 S-215 S-216 S-311 S-312 S-313 S-314 S-421 S-422 S-451 S-452 S-531 S-532 S-533 APPLICAB THE FOLL CALIFORN PUBLIC SA CALIFORN PUBLIC SA CALIFORN PART 1 PART 2 PART 3 PART 4 PART 5 PART 6 PART 8 PART 9 PART 10 PART 10 PART 10 PART 112 UNIFORM UNIFORM UNIFORM	COVER SHEET TURAL SITE LAYDOWN PLAN SITE PLAN ENLARGED PARKING AND RAMP PLAN SECTIONS - EXTERIOR RAMP & STAIRS DETAILS - SITE TITLE SHEET SITE GRADING & DRAINAGE PLAN SITE DETAILS & CONSTRUCTION NOTES RAL GENERAL NOTES TYPICAL NOTES TYPICAL NOTES STATEMENT OF SPECIAL INSPECTIONS RETROFIT FOUNDATION PLAN - LEVEL 1 RETROFIT FLOOR PLAN - LEVEL 1 RETROFIT FLOOR PLAN - LEVEL 2 RETROFIT FLOOR PLAN - LEVEL 2 RETROFIT ROOF/FLOOR PLAN - LOW RO RETROFIT ROOF PLAN - HIGH ROOF ELEVATIONS ELEVATIONS ELEVATIONS ELEVATIONS ELEVATIONS SECTI	S S S S S S S S S S S S S S S S S S S	S-534 S-535 S-537 S-537 S-541 S-552 S-571 ARCHITEC A-111-B A-111 A-112 A-134 A-211 A-422 A-423 A-513 A-514 A-531 A-532 A-533 A-534 A-661 ELEVATOF VT.01 ELECTRIC E0.0 E0.2 E1.1 E3.1 E5.2 E6.1 E9.2 ET24.1 ET24.2 ET24.3	FLOOR PLAN - BASEMENT FLOOR PLAN - LEVEL 1 FLOOR PLAN - LEVEL 2 ROOF PLAN EXTERIOR ELEVATIONS VERTICAL CIRCULATION - PLANS VERTICAL CIRCULATION - ELEVATIONS VERTICAL CIRCULATION - ELEVATIONS VERTICAL CIRCULATION - SECTIONS DETAILS DETAILS PARTITION TYPES & SCHEDULE DETAILS - INTERIOR DETAILS - INTERIOR DETAILS - INTERIOR COLD FORMED FRAMING DETAILS - INTERIOR COLD FORMED FRAMING SCHEDULES / DIAGRAMS - DOORS UL ASSEMBLIES R
<u>די</u>	L LAB LAV	ANGLE LABORATORY LAVATORY	ss sst DEEE	SANITARY SEWER; SERVICE SINK STAINLESS STEEL	<u>ح</u>						
וי				RRED SUBMITTAL	3			JECT DIRECTORY			SHEET IDENTIFICATION LEGEND
TS TO THE ET IN SUSA	EXISTING LASSE	ADDITION OF AN ELEVATOR, EN COUNTY COURTHOUSE RNIA WHICH IS COMPOSED OF SSF.	NONE					DF LASSEN ENT OF PUBLIC WORKS	ELECTRICAL ENGINEER GLUMAC 910 GLENN DRIVE		DISCIPLINE DESIGNATORS - LEVEL 1 SHEET TYPE DESIGNATORS G GENERAL 0 - GENERAL H HAZARDOUS MATERIALS 1 - PLANS

IIC UPGRADES, THE ADDITION OF AN ELEVATOR, THE EXISTING LASSEN COUNTY COURTHOUSE USANVILLE, CALIFORNIA WHICH IS COMPOSED OF , TOTALING 21,842 GSF.	NONE	OWNER COUNTY OF LASSEN DEPARTMENT OF PU
ED THE COUNTY AND ITS RESIDENTS FOR E. IN 2012 THE SUPERIOR COURT OF LASSEN HISTORIC COURTHOUSE IS NOW SLATED FOR A PRIC COURTHOUSE IS ON THE NATIONAL ED APPROACH IS PLANNED.		707 NEVADA STREET SUSANVILLE, CA 9613 CONTACT: PETE HEIN PHONE: 530.251.8299 EMAIL: PHEIMBIGNER
AL WAS COMPLETED IN A PREVIOUS PHASE AND OMPLETED AFTER THE PLANNED SEISMIC, DES IN THIS SUBMITTAL. THE WORK FOLLOWING PLETED OVER THE COMING 24 MONTHS		HISTORICAL PRE PAGE & TURNBULL 2401 C STREET, SUIT SACRAMENTO, CA 95 CONTACT: MELISSA (
<u>TED)</u> HAVE BEEN PROTECTED AND HAZARDOUS E DEMOLITON WILL TAKE PLACE. EXTERIOR WALL	SPECIAL INSPECTIONS	PHONE: 916.912.4476 EMAIL: GAUDREAU@
URAL ENGINEERS CAN PREPARE A RETROFIT NUNOCCUPIED WHILE FUTURE IMPROVEMENTS	NONE	
BILITY IMPROVEMENTS (PART OF THIS SCOPE) ND AN EXTERIOR ELEVATOR WILL BE PROVIDED SUPPORT THE FUTURE USE OF THE HISTORIC IE CHAMBER FOR THE COUNTY BOARD OF ROVEMENTS WILL ALSO BE PERFORMED. A NEW HE BASEMENT OF THE BUILDING, BUT SATELLITE		1919 19TH STREET SACRAMENTO, CA 95 CONTACT: NICK DOC PHONE: 916.558.1900 EMAIL: NICK.DOCOUS
WILL BE PROVIDED IN THE NEXT PHASE OF <u>SCOPE)</u> ENTS WILL BE MADE AS WELL AS MECHANICAL, DES FOR THE BUILDING. ACCESSIBILITY		STRUCTURAL EI LIONAKIS 1919 19TH STREET SACRAMENTO, CA 95 CONTACT: DARRON F PHONE: 916.558.1900
N THE BUILDING TO SUPPORT FUTURE COUNTY		EMAIL: DARRON.HUN

COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 220 S LASSEN ST

JBLIC WORKS 910 GLENN DRIVE H HAZARDOUS MATERIALS 1 - PLANS , SUITE 4 FOLSOM, CA 95630 2 - ELEVATIONS V SURVEY/MAPPING CONTACT: PAUL JOHNSON GEOTECHNICAL 3 - SECTIONS MBIGNER PHONE: 916.934.5103 C CIVIL 4 - LARGE SCALE VIEWS EMAIL: PJOHNSON@GLUMAC.COM L LANDSCAPE 5 - DETAILS R@CO.LASSEN.CA.US S STRUCTURAL 6 - SCHEDULES & DIAGRAMS A ARCHITECTURAL 7 - USER DEFINED I INTERIORS 8 - USER DEFINED ESERVATION CIVIL ENGINEER Q EQUIPMENT 9 - 3D REPRESENTATIONS NST ENGINEERING F FIRE PROTECTION 1495 RIVERSIDE DRIVE TE B P PLUMBING SUSANVILLE CA 96130 5816 D PROCESS CONTACT: JEFF MOORISH GAUDREAU M MECHANICAL PHONE: 530.257.5173 E ELECTRICAL PAGE-TURNBULL.COM EMAIL: nst@frontiernet.net W DISTRIBUTED ENERGY TELECOMMUNICATIONS R RESOURCE ELEVATOR X OTHER DISCIPLINES SYSKA HENNESSY CONTRACTOR/SHOP DRAWINGS 425 CALIFORNIA STREET O OPERATIONS SAN FRANCISCO CA 94101 5811 - BUILDING IDENTIFIER - WHERE OCCURS CONTACT: JOHN MORAN COUS DISCIPLINE DESIGNATOR - LEVEL 1 PHONE: 415.228.9061 JS@LIONAKIS.COM MOBILE: 415.385.6755 **DISCIPLINE DESIGNATOR - LEVEL 2** EMAIL: jmoran@syska.com REPLACE DASH WHERE OCCURS SHEET TYPE DESIGNATOR NGINEER - SHEET TYPE SUBSET DESIGNATOR - LEVEL/SEQUENCE DESIGNATOR 5811 HUNTINGDALE - AREA IDENTIFIER - WHERE OCCURS - UNIQUE PORTION IDENTIFIER - WHERE OCCURS NTINGDALE@LIONAKIS.COM * * * * * C.A-123AB



919 Nineteenth Stree Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

CONSULTANT

LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION

220 S LASSEN ST SUSANVILLE, CA 96130 COUNTY OF LASSEN CLIENT DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130

ISSUED

AGENCY

MARK DATE DESCRIPTION 10/16/2020 100% CD SUBMITTAL

3:30 pm, Oct 27, 2020

APPROVED BY: Willdan Engineering

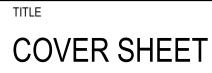
Approval of these plans shall not be construed

to be a permit for, or an approval of any

violation of any of the provisions of the state

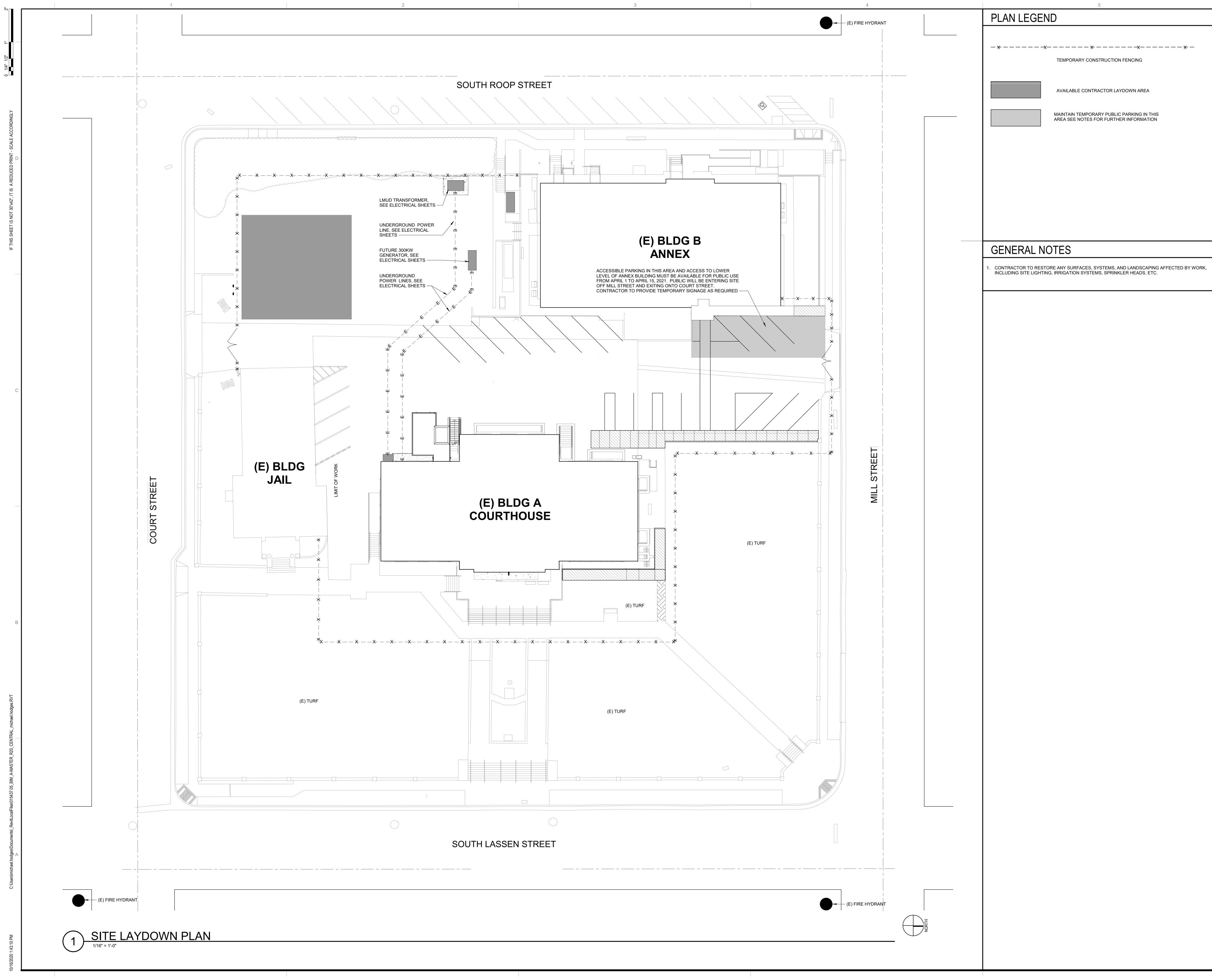
or local laws. One set of approved plans must

be kept on the job until completion.



SHEET

G-001







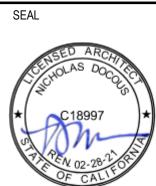
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MANAGEMENT	
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	10/10/2020	



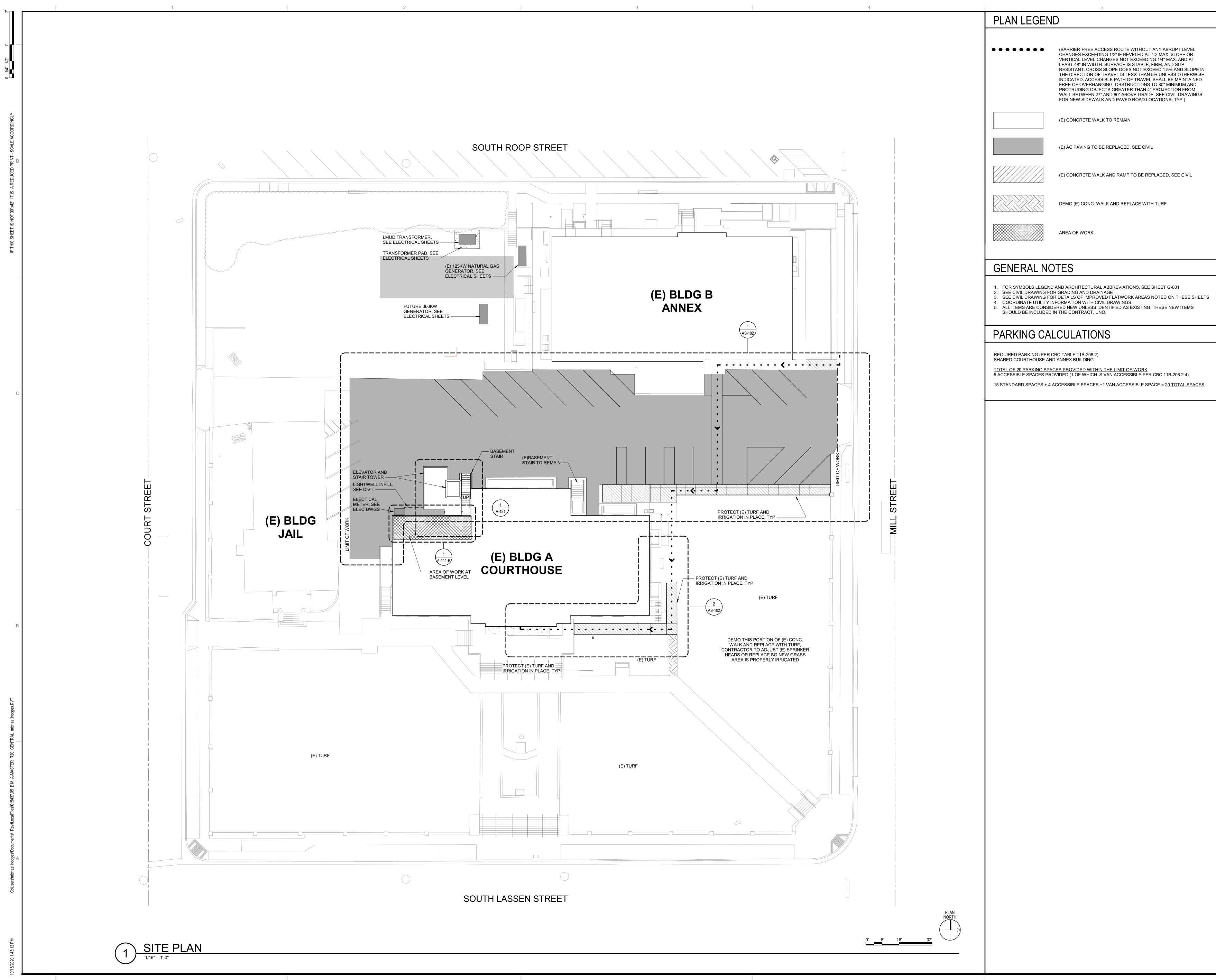






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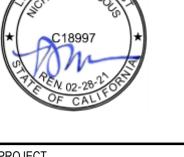


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CLIENT PROJECT NO:	
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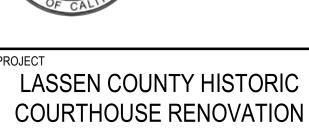
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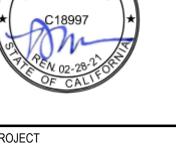
220 S LASSEN ST SUSANVILLE, CA 96130

COUNTY OF LASSEN

DEPARTMENT OF PUBLIC WORKS

707 NEVADA STREET SUITE 4

SUSANVILLE, CA 96130



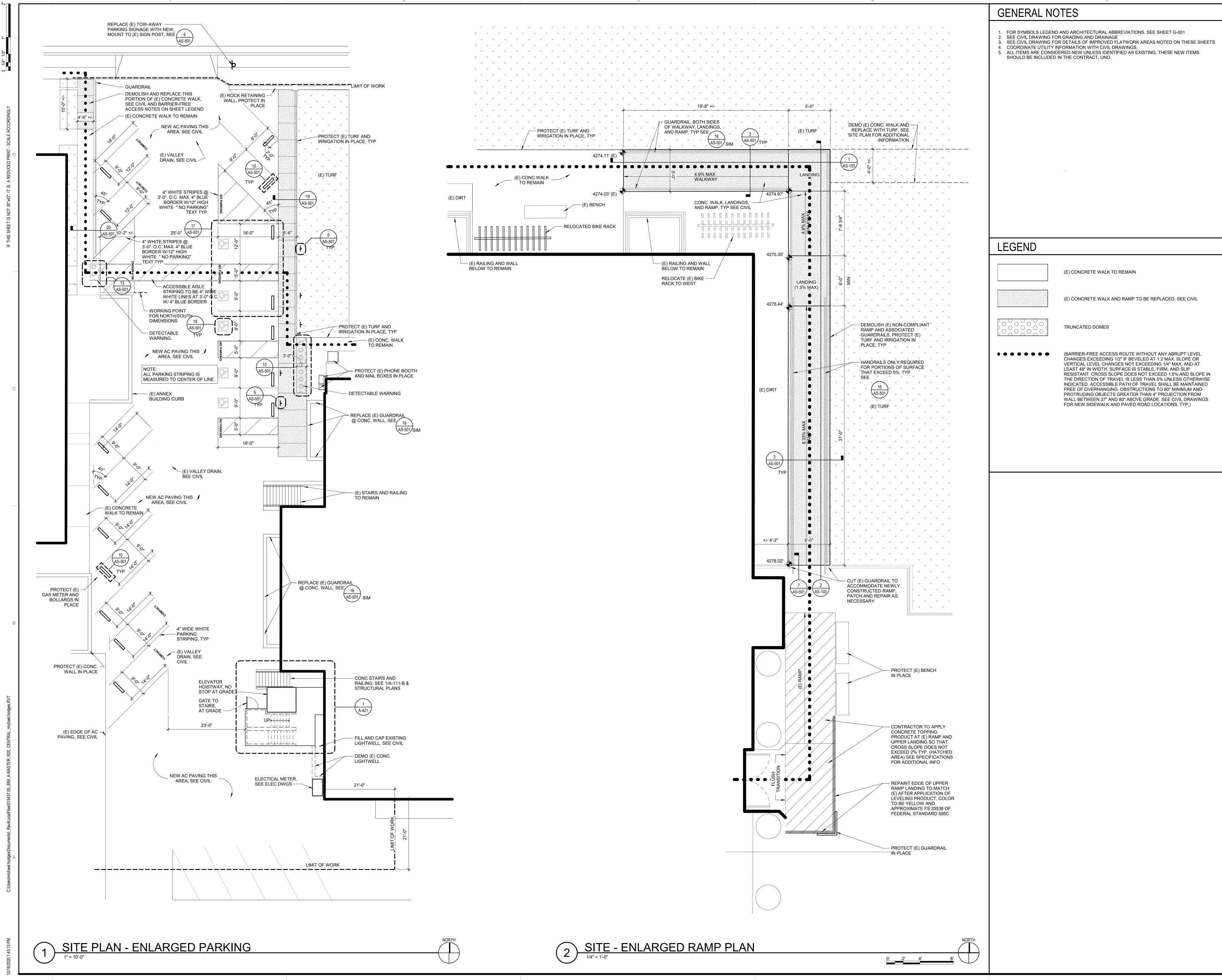


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CLIENT

LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION

220 S LASSEN ST

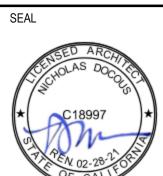
SUSANVILLE, CA 96130

COUNTY OF LASSEN

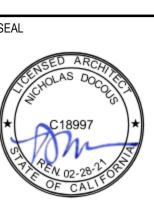
DEPARTMENT OF PUBLIC WORKS

707 NEVADA STREET SUITE 4

SUSANVILLE, CA 96130





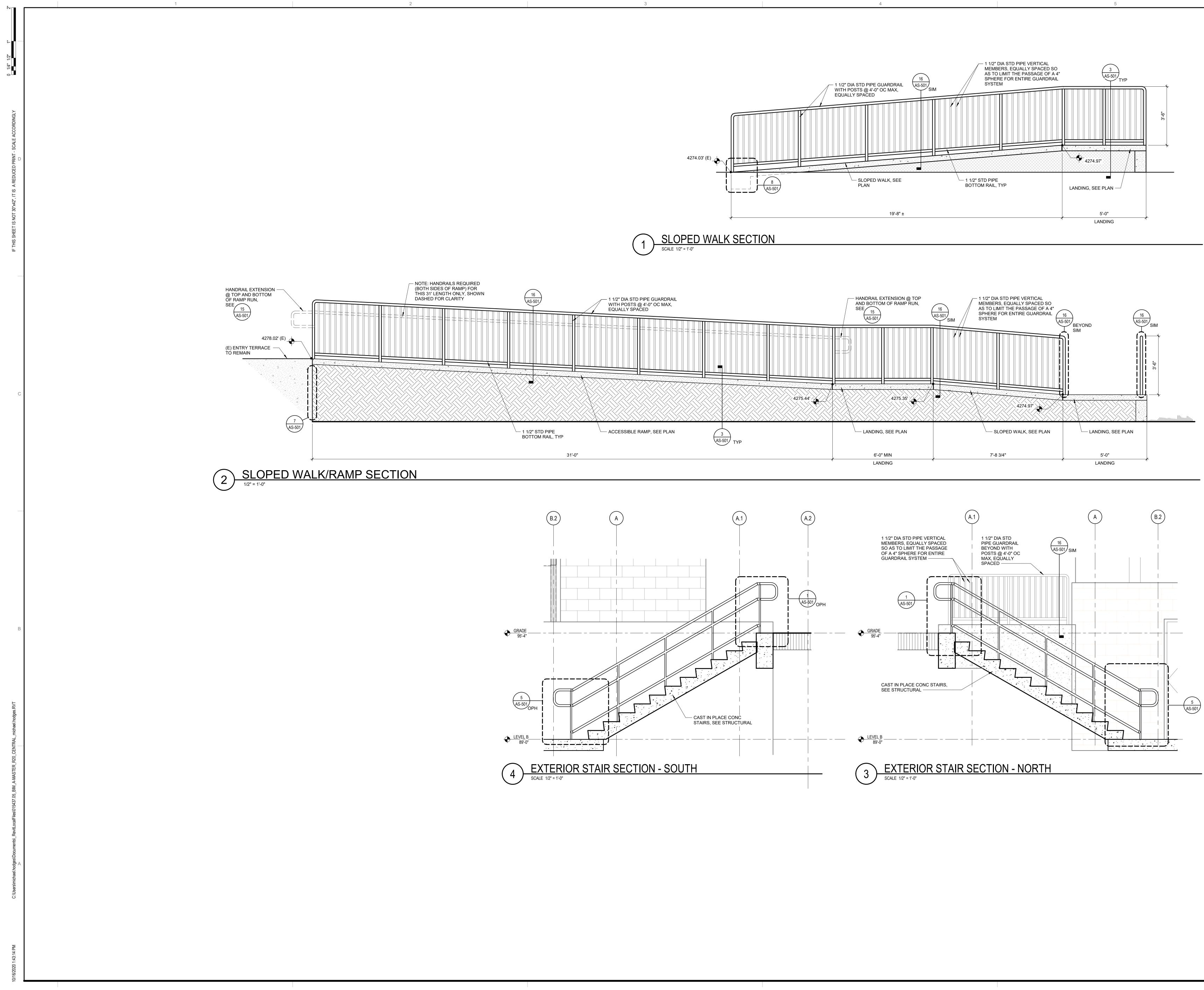




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MANAGEMENT	
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MARK DATE DESCRIPTION			ISSUED
	 DESCRIPTION	DATE	MARK
10/16/2020 100% CD SUBMITTAL	100% CD SUBMITTAL	10/16/2020	

SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130

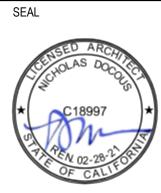
LASSEN COUNTY HISTORIC

COURTHOUSE RENOVATION

220 S LASSEN ST

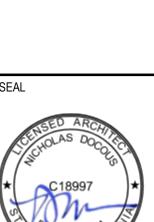


PROJECT





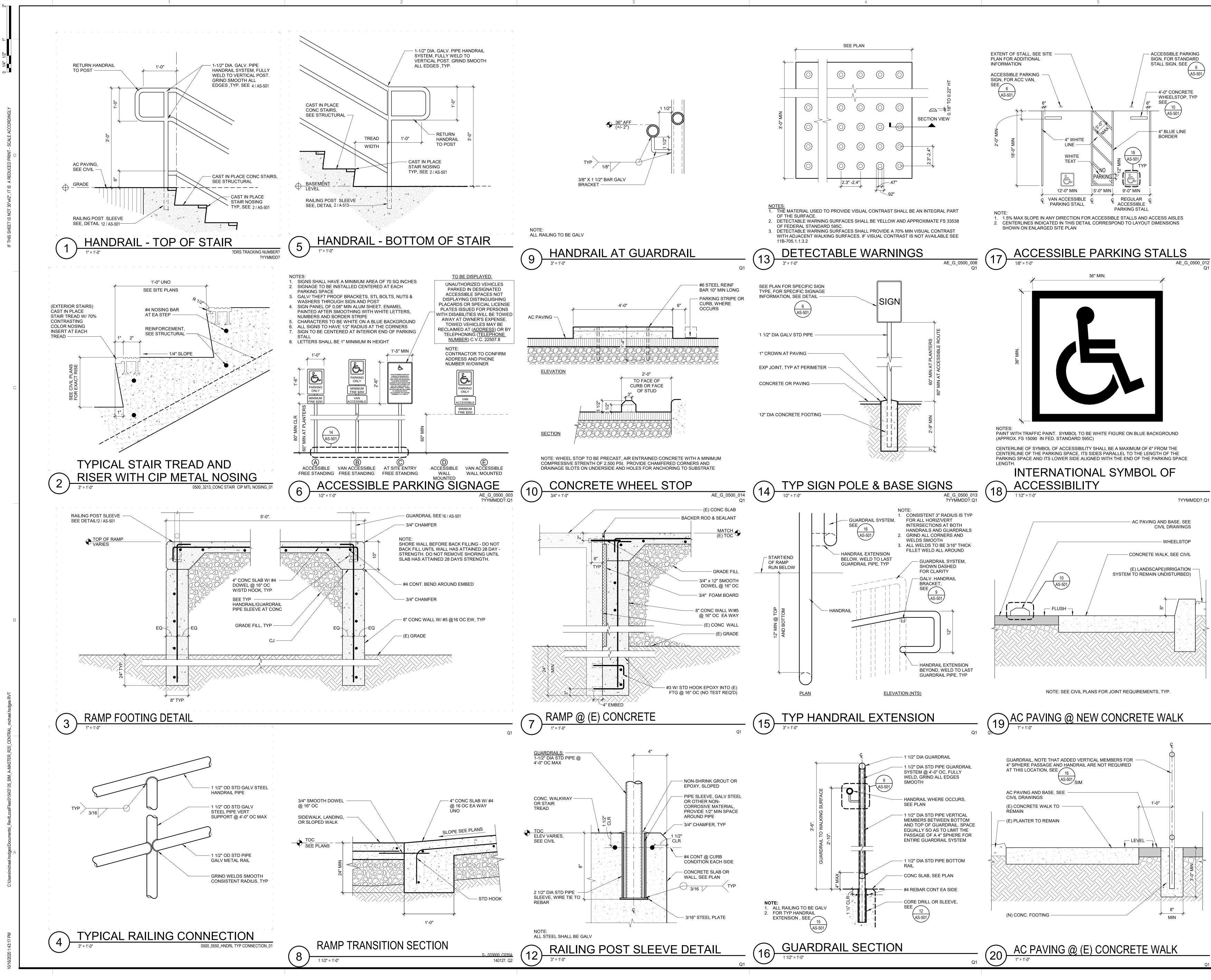


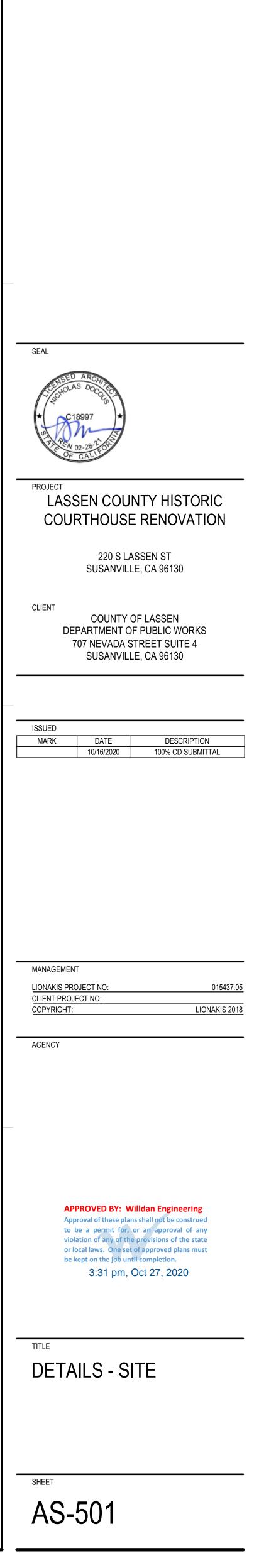


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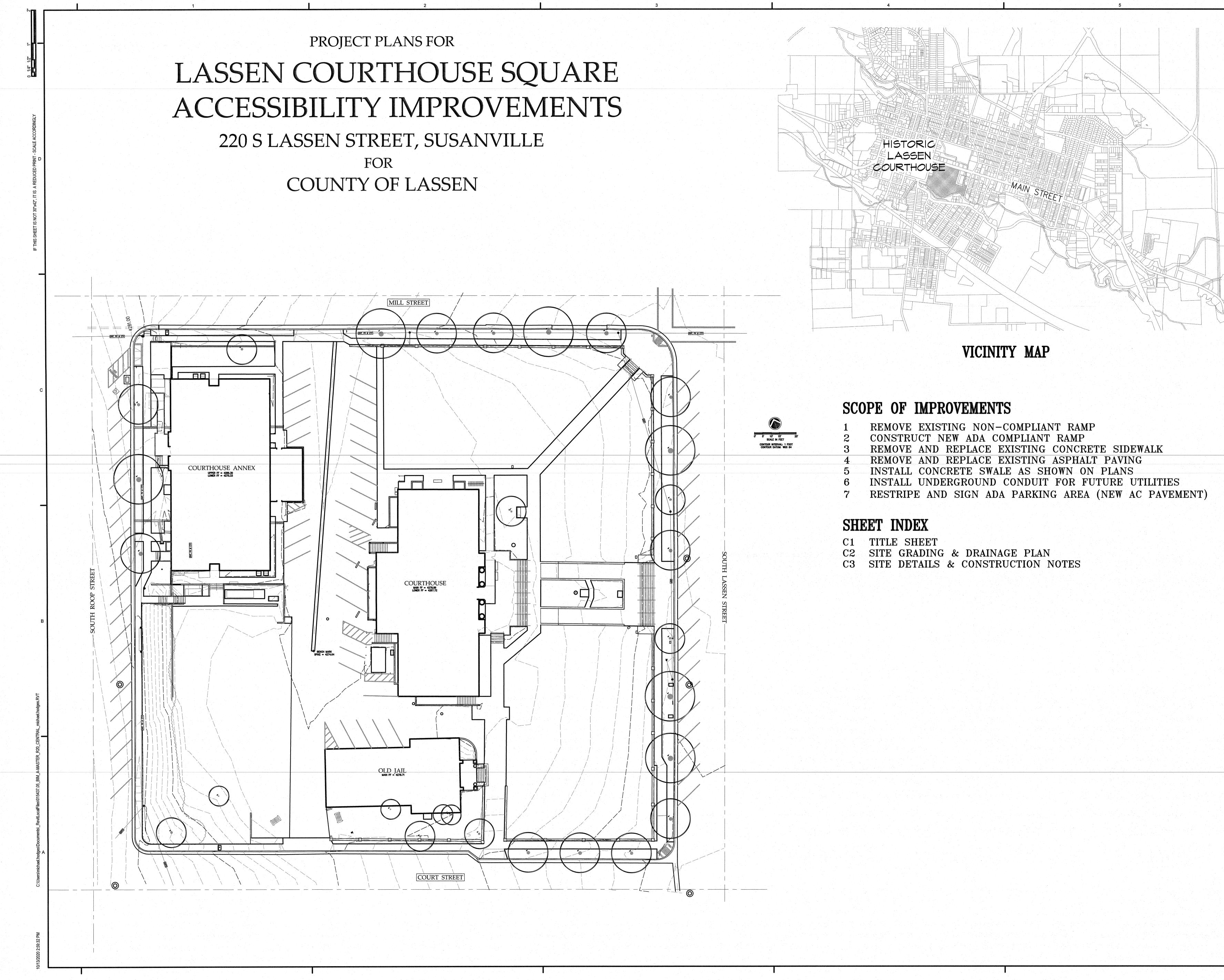


1919 Nineteenth Street Sacramento CA 95811

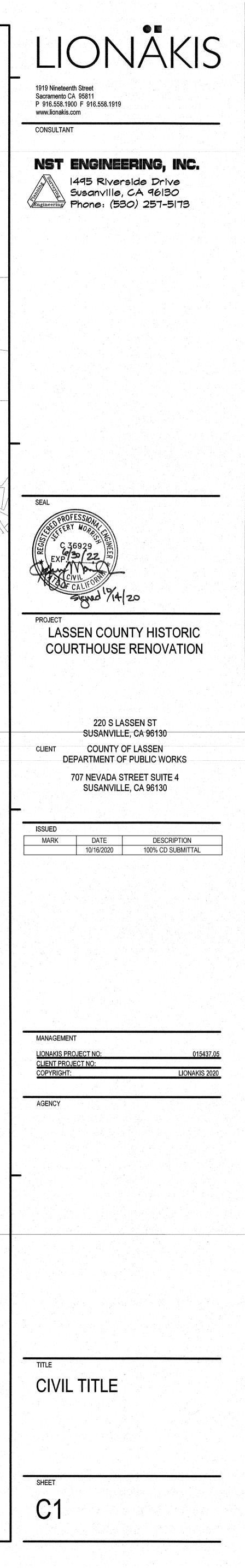
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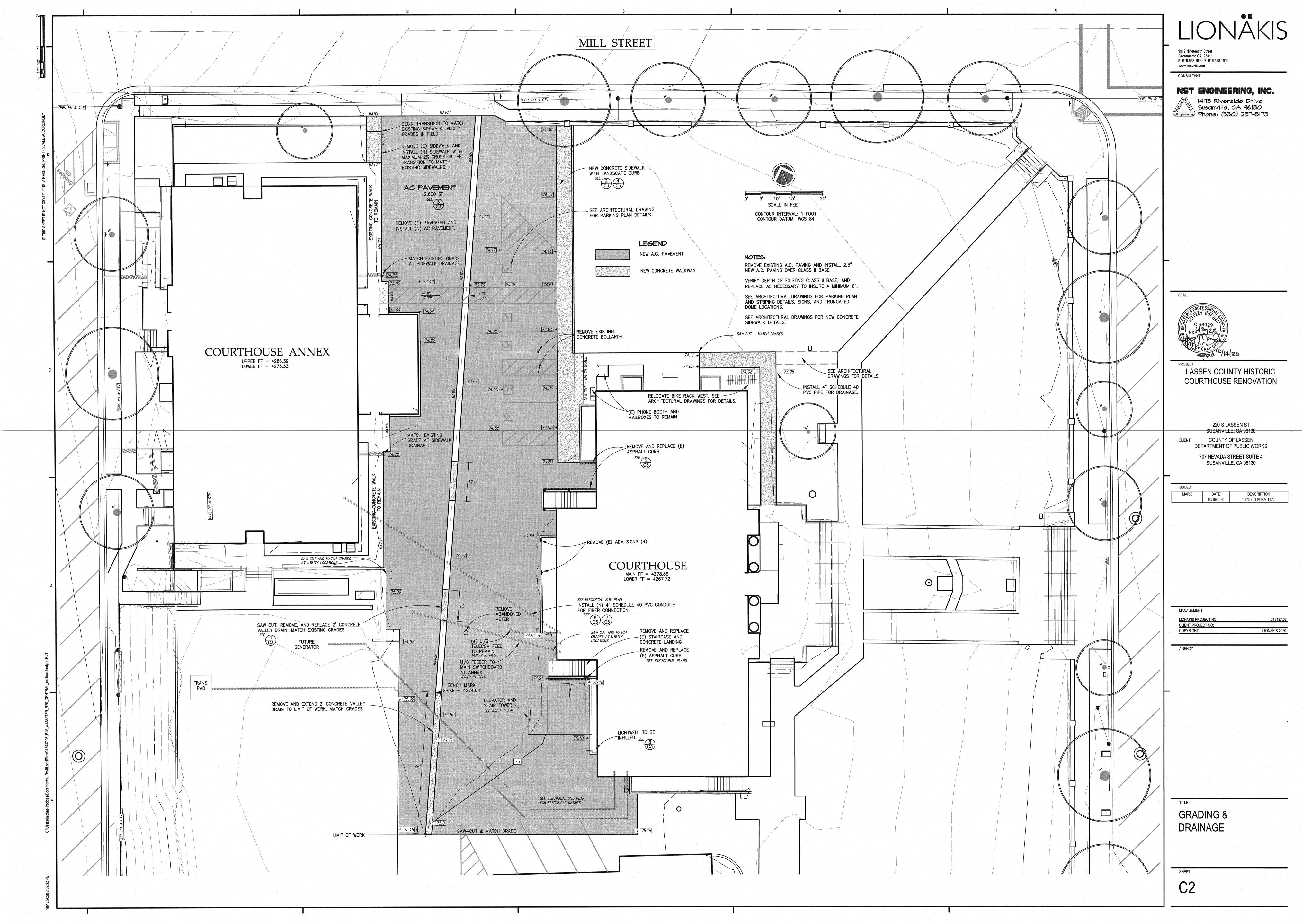
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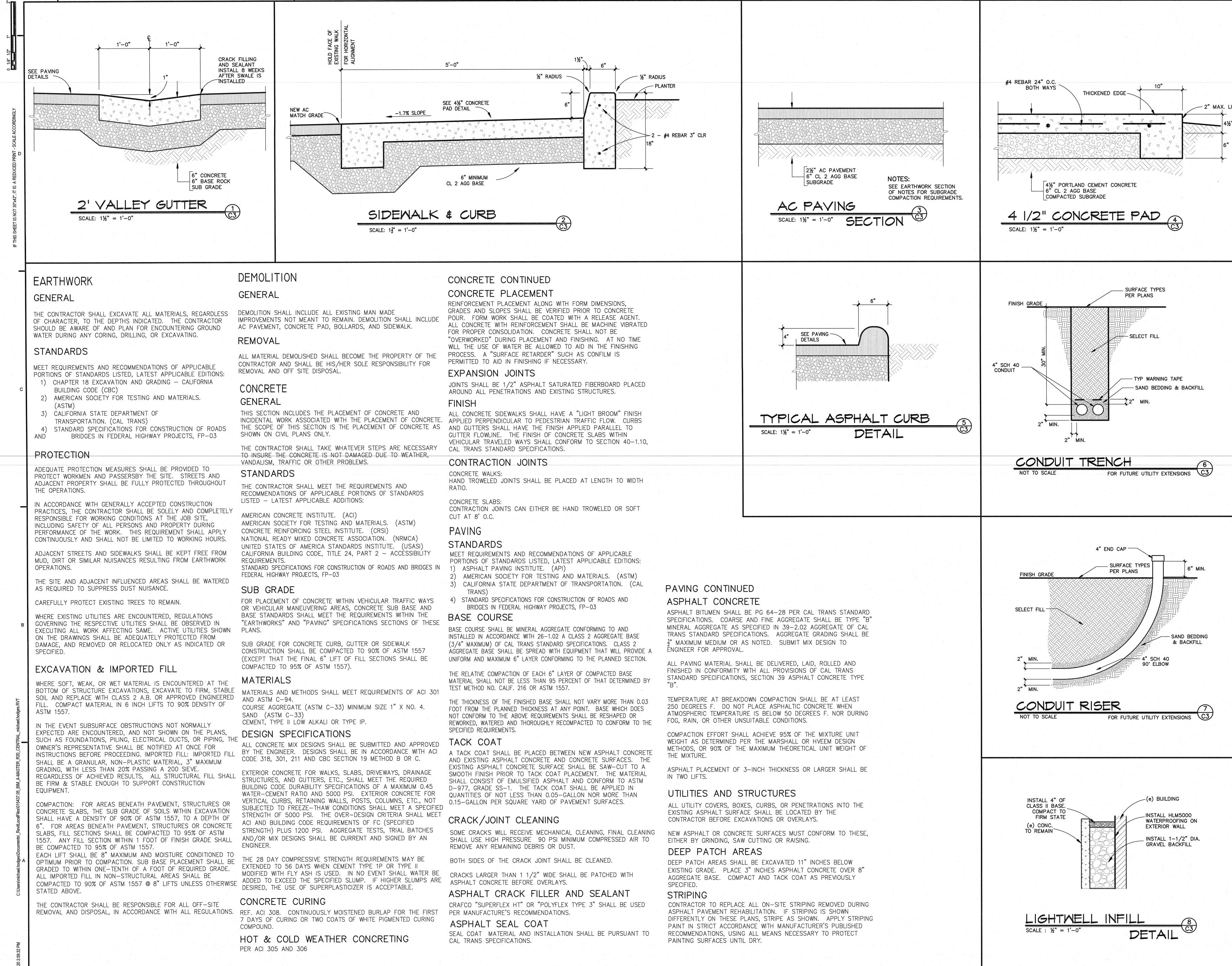
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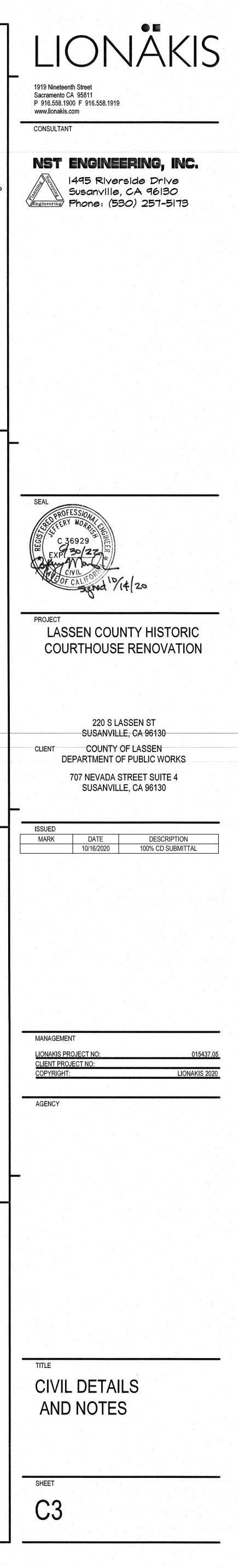


1	REMOVE EXISTING NON	-COMPLIANT R	AMP
2	CONSTRUCT NEW ADA	COMPLIANT RAM	[P
3	REMOVE AND REPLACE	EXISTING CON	CRETE SIDEW
4	REMOVE AND REPLACE	EXISTING ASPI	IALT PAVING

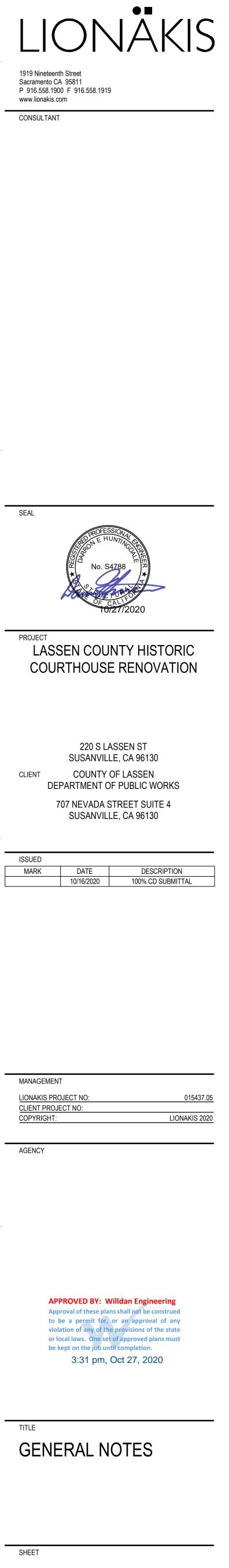






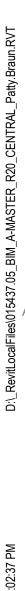


STRUCTURAL ABBREVIA	S- 014213 N001A	STRUCTURAL SYM	BOLS LEGEND	OTTO STRUCTURAL GENERAL NOTES 5- 014100 N004A 190526 02	STRUCTURAL DESIGN CRITERIA	
SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABB REFERENCED DESIGN AND MATERIALS SYMBOLS, ACRONYMS	IS & NOTATIONS.		DETAIL INDICATOR - REFERENCE	190526. Q2 1. THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL	BUILDING CODE: 2019 CBC	OWNER ELECTRICAL ENGIN
& AND @ AT	IR INSIDE RADIUS JH JOIST HANGER	S-512 S-512	& DETAIL INDICATOR - ITEM	STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE FINISHED PROJECT AS INDICATED IN OTHER CONSTRUCTION	ENFORCEMENT AGENCY: LASSEN COUNTY BUILDING DEPARTMENT	COUNTY OF LASSENGLUMACDEPARTMENT OF PUBLIC WORKS910 GLENN DRIVE707 NEVADA STREET, SUITE 4FOLSOM, CA 95630
(E) EXISTING ' FOOT, FEET " INCH, INCHES	JT JOINT L ANGLE, LONG, LENGTH LL LIVE LOAD	B3 B3	DETAIL INDICATOR - SECTION &	DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR	A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED) ROOF LIVE LOADS:	SUSANVILLE, CA 96130CONTACT: PAUL JOHNSOCONTACT: PETE HEIMBIGNERPHONE: 916.934.5103PHONE: 530.251.8299EMAIL: PJOHNSON@GLUI
# NUMBER, POUND A/E ARCHITECT / ENGINEER	LL LIVE LOAD LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL	S-501 S-501	DETAIL INDICATOR - SECTION ITEM	COMPLETE PROJECT REQUIREMENTS. 2. REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY	- TYP ROOF AREA 20 PSF (REDUCIBLE) FLOOR LIVE LOADS:	EMAIL: PHEIMBIGNER@CO.LASSEN.CA.US
AB ANCHOR BOLT ABV ABOVE	LONG LONGITUDINAL LS LAG SCREW		SECTION INDICATOR -	APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND	- CORRIDORS ABOVE FIRST FLOOR 80 PSF (REDUCIBLE)	HISTORICAL PRESERVATION CIVIL ENGINEER PAGE & TURNBULL NST ENGINEERING
ADDL ADDITIONAL AFF ABOVE FINISHED FLOOR	LWC LIGHT WEIGHT CONCRETE MAX MAXIMUM	S-301 S-512	PARTIAL BUILDING/WALL DETAIL INDICATOR - AREA	MODIFICATIONS PRODUCED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.	GROUND SNOW LOAD:86 PSFB. LATERAL DESIGN CRITERIA	2401 C STREET, SUITE B1495 RIVERSIDE DRIVESACRAMENTO, CA 95816SUSANVILLE CA 96130CONTACT: MELISSA GAUDREAUCONTACT: JEFF MOORISH
AFGABOVE FINISHED GRADEAFSABOVE FINISHED SLAB	MB MACHINE BOLT MC MISCELLANEOUS CHANNEL	A2 A2		3. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A	SEISMIC SITE CRITERIA: SS=0.96, S1=0.33, SDS=0.76, SD1=0.44, SITE CLASS: D	PHONE: 916.912.4476 PHONE: 530.257.5173 EMAIL: GAUDREAU@PAGE-TURNBULL.COM EMAIL: nst@frontiernet.net
ALT ALTERNATE ALUM ALUMINUM APPROX APPROXIMATE	MCJ MASONRY CONTROL JOINT MDJ MASONRY DOWEL JOINT MECH MECHANICAL	S-303 S-303	SECTION INDICATOR - BUILDING	REASONABLE TIME PERIOD FOR REVIEW, DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE.	BUILDING CRITERIA: SEISMIC RETROFIT OF EXISTING BUILDING SEISMIC:	ARCHITECT ELEVATOR
AFFROM AFFROMMATE ARCH ARCHITECT ATR ALL THREAD ROD	MECH MECHANICAL MEJ MASONRY EXPANSION JOINT MFR MANUFACTURER			OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK. 4. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL	 RISK CATEGORY= II IMPORTANCE FACTOR, I=1.00 SEISMIC DESIGN CATEGORY = D 	LIONAKIS 1919 19TH STREET 425 CALIFORNIA STREET
BFF BELOW FINISH FLOOR BKG BACKING	MIN MINIMUM MISC MISCELLANEOUS	A4 S-201	ELEVATION INDICATOR - EXTERIOR	ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT	 SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED CONCRETE WALLS RESPONSE MODIFICATION FACTOR, R = 6 	SACRAMENTO, CA 95811 SAN FRANCISCO CA 94101 CONTACT: NICK DOCOUS CONTACT: JOHN MORAN
BLDG BUILDING BLKG BLOCKING	MKJ MASONRY KEY JOINT MRJ MASONRY RAKE JOINT	A1		BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.	 DESIGN BASE SHEAR: V = 0.13W SEISMIC RESPONSE COEFFICIENT, Cs=0.13 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE 	PHONE: 916.558.1900 PHONE: 415.228.9061 EMAIL: NICK.DOCOUS@LIONAKIS.COM MOBILE: 415.385.6755 EMAIL: jmoran@syska.com
BLW BELOW BM BEAM	NA NOT APPLICABLE NF NEAR FACE	S-202 A2 A4 S-202 A2	ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW	 PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND 	 HORIZONTAL IRREGULARITIES: N/A VERTICAL IRREGULARITIES: N/A 	STRUCTURAL ENGINEER
BMUBRICK MASONRY UNITBNBOUNDARY NAILBOOBOUNDARY SAIL	NIC NOT IN CONTRACT NTS NOT TO SCALE	A3		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.	BUILDING DISPLACEMENT (AMPLIFIED): LEVEL STORY DRIFT TOTAL DISPLACEMENT	LIONAKIS 1919 19TH STREET
BOS BOTTOM OF STEEL BOT BOTTOM BTWN BETWEEN	NWCNORMAL WEIGHT CONCRETEO/OVEROCON CENTER		MATCH LINE INDICATOR	6. DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE	GROUND 0.00 IN 0.00 IN 1ST FLOOR 0.05 IN 0.05 IN 2ND FLOOR 0.07 IN 0.12 IN	SACRAMENTO, CA 95811 CONTACT: DARRON HUNTINGDALE PHONE: 916.558.1900
BTWN BETWEEN C CAMBER, CHANNEL CB CARRIAGE BOLT	OD OUTSIDE DIAMETER OPH OPPOSITE HAND			ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL	ATTIC FLOOR 0.10IN 0.22 N MAIN ROOF 0.10IN 0.22IN	EMAIL: DARRON.HUNTINGDALE@LIONAKIS.COM
CBC CALIFORNIA BUILDING CODE CFSF COLD-FORMED STEEL FRAMING	OPNG OPENING OPP OPPOSITE			CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.	ATTIC ROOF 0.30IN 0.47IN BUILDING CRITERIA: STAIR / ELEVATOR	
CG CENTER OF GRAVITY CJ CONSTRUCTION JOINT	OR OUTSIDE RADIUS PAF POWER ACTUATED FASTENER		REFERENCE GRID WITH REFERENCE GRID	7. 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,	SEISMIC: • RISK CATEGORY= II	
CJP COMPLETE JOINT PENETRATION CL CENTER LINE	PCC PRECAST CONCRETE PCF POUNDS PER CUBIC FOOT		LINES	CODES AND REGULATIONS. 8. REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO.	 IMPORTANCE FACTOR, I=1.00 SEISMIC DESIGN CATEGORY = D SEISMIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALL 	STRUCTURAL SHEET INDEX
CLR CLEAR CMU CONCRETE MASONRY UNIT	PJPPARTIAL JOINT PENETRATIONPLPLATE, PROPERTY LINE			 REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AITC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY. 	 RESPONSE MODIFICATION FACTOR, R = 5 DESIGN BASE SHEAR: V = 0.16W 	SHEET NUMBER SHEET NAME S-001 GENERAL NOTES S-011 TYPICAL NOTES
COL COLUMN CONC CONCRETE	PLF POUNDS PER LINEAR FOOT PREFAB PREFABRICATE		REVISION INDICATOR & REVISION CLOUD	 FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL 	 SEISMIC RESPONSE COEFFICIENT, Cs=0.16 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE HORIZONTAL IRREGULARITIES: N/A 	S-011 TYPICAL NOTES S-012 TYPICAL NOTES S-013 TYPICAL NOTES
CONN CONNECT, CONNECTION CONT CONTINUE, CONTINUOUS	PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH	<u>/22</u>		BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED	VERTICAL IRREGULARITIES: N/A	S-014 STATEMENT OF SPECIAL INSPECTIONS S-111B RETROFIT FOUNDATION PLAN - LEVEL B
CRS COLD ROLLED STEEL CSK COUNTER SUNK	PTW PRESERVATIVE TREATED WOOD QTY QUANTITY P PADILIS PISEP	LEVEL 1		ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. 10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE	WIND: ULTIMATE DESIGN WIND SPEED, V(ULT) = 95 MPH NOMINAL DESIGN WIND SPEED, V(ASD) = 85 MPH	S-111RETROFIT FLOOR PLAN - LEVEL 1S-112RETROFIT FLOOR PLAN - LEVEL 2
CTR CENTER D PENNY (NAIL), DEEP, DEPTH DBL DOUBLE	R RADIUS, RISER REBAR REINFORCING STEEL BAR REINF REINFORCE, REINFORCING	$\underbrace{LEVEL 1}_{100'-0"} \bigoplus \underbrace{TOC 98'-8"}_{TOC 98'-8"}$	ELEVATION INDICATOR - LEVEL & SPOT	STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL	RISK CATEGORY = II WIND EXPOSURE = C	S-113 RETROFIT ROOF/FLOOR PLAN - LOW ROOF/LEVEL 3 S-114 RETROFIT ROOF PLAN - HIGH ROOF
DBL DOUBLE DCW DEMAND CRITICAL WELD DEG DEGREE	REINF REINFORCE, REINFORCING REQ REQUIRE, REQUIRED RND ROUND			ENGINEER. 11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN	GCPI = +/- 0.18 COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16	S-211 ELEVATIONS S-212 ELEVATIONS
DEG DEGREE DEMO DEMOLITION DET DETAIL	RO ROUGH OPENING RS ROUGH SAWN	< <u>22</u> >	KEYNOTE INDICATOR	INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.	C. SOIL DESIGN CRITERIA	S-213 ELEVATIONS S-214 ELEVATIONS S-215 ELEVATIONS
DIA DIAMETER DIAG DIAGONAL	RWD REDWOOD S SPACED, SPACING, SPLICE, STEP	PLAN NORTH		12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETED CONFIGURATION. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE	SOIL INFO IS BASED ON GEOTECHNICAL REPORT BY: NOVA GEOTECHNICAL & INSPECTION SERVICES / RG-20-050, BLAKE CARTER, PE DATED: AUGUST 28, 2020	S-215 ELEVATIONS S-216 ELEVATIONS S-311 SECTIONS
DIM DIMENSION DJ DOWEL JOINT	SAD SEE ARCHITECTURAL DRAWINGS SCHED SCHEDULE		PLAN NORTH & TRUE NORTH INDICATOR	MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF	SPREAD FOUNDATIONS:	S-311 SECTIONS S-312 SECTIONS S-313 SECTIONS
DL DEAD LOAD DO DITTO, DO OVER	SDST SELF-DRILLING SELF-TAPPING SE STRUCTURAL ENGINEER			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 PLACE	- ALLOWABLE BEARING PRESSURE: DL + LL = 3000 PSF DL + LL + LATERAL = 4000 PSF	S-313 SECTIONS S-314 SECTIONS S-421 PLANS - STAIRS
DOUG FIR DOUGLAS FIR DWG DRAWING	SECT SECTION SFRS SEISMIC FORCE RESISTING SYSTEM			UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.	 COEFFICIENT OF FRICTION = 0.42 ALLOWABLE PASSIVE PRESSURE = 406 PCF IF FRICTIONAL RESISTANCE AND PASSIVE PRESSURE ARE COMBINED. FRICTION IS 	S-422 SECTIONS - STAIRS S-451 DETAILS - EXTERIOR STAIR
DWL DOWEL EA EACH EE EACH END	SHTHG SHEATHING SIM SIMILAR SJ SHRINKAGE JOINT			13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO,	REDUCED BY 0%	S-452DETAILS - EXTERIOR STAIRS-531DETAILS - TYPICAL CONCRETE
EE EACH END EF EACH FACE EJ EXPANSION JOINT	SJ SHRINKAGE JOINT SL SNOW LOAD SP STRUCTURAL PANEL	MATERIAL SYMBO	<u>LEGEND</u> 5- 011000 NOI 170125.	PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO	RETAINING WALLS: - AT-REST EARTH PRESSURE = 59 PCF - ACTIVE EARTH PRESSURE = 38 PCF	S-532 DETAILS - TYPICAL CONCRETE S-533 DETAILS - TYPICAL CONCRETE
EL ELEVATION ELEC ELECTRIC, ELECTRICAL	SP STRUCTORAL PANEL SPEC SPECIFICATION SQ SQUARE		170125.	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	 ACTIVE EARTH PRESSURE = 38 PCF INCREMENTAL SEISMIC ACTIVE EARTH PRESSURE = 14 PCF ACTING AT 0.60 TIMES THE RETAINING WALL HEIGHT 	S-534 DETAILS - CONCRETE S-535 DETAILS - CONCRETE
ELEV ELEVATOR EMBED EMBEDMENT	SST STAINLESS STEEL STAG STAGGERED		EARTH	DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.		S-536DETAILS - CONCRETES-537DETAILS - CONCRETES-541DETAILS - TYPICAL MASONRY
EN EDGE NAIL EOS EDGE OF SLAB	STD STANDARD STIF STIFFENER			14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY		S-541 DETAILS - TYPICAL MASONRY S-551 DETAILS - STRUCTURAL STEEL S-552 DETAILS - STRUCTURAL STEEL
EQ EQUAL, EQUALLY ES EACH SIDE	STIR STIRRUP STL STEEL		EARTH, COMPACT FILL	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		S-552 DETAILS - STRUCTURAL STEEL S-571 DETAILS - TYPICAL STEEL DECKING SHEET COUNT: 35
EW EACH WAY EXT EXTERIOR	STRUCT STRUCTURAL SYMM SYMMETRICAL			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		
F/F FACE TO FACE FA FRAMING ANGLE FB FLAT BAR	T TREAD, THICKNESS T&B TOP & BOTTOM T&G TONGUE & GROOVE		EARTH, ROCK	TO ANY PART OR PARTS OF THE STRUCTURE. 15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE		
FB FLAT BAR FDTN FOUNDATION FIN FINISH	THK THICKNESS THRU THROUGH			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		
FLG FLANGE FLR FLOOR	TJ TOOL JOINT TN TOE NAIL			ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR		-
FNFIELD NAILFOCFACE OF CONCRETE/CURB	TOBTOP OF BEAMTOCTOP OF CURB/CONCRETE		GRAVEL, ROCK FILL	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	STRUCTURAL DEFERRED SUBMITTALS 5- 013300 N001/ 171002. Q	A 2
FOFFACE OF FINISHFOMFACE OF MASONRYFOSFACE OF STUD	TOFTOP OF FRAMING/FOOTING/FLOORTOJTOP OF JOISTTOMTOP OF MASONIDY			SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE	 THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR DEFERRED APPROVAL BY THE ENFORCEMENT AGENCY PRIOR TO FABRICATION OR INSTALLATION. 	T
FOS FACE OF STUD FOW FACE OF WALL	TOMTOP OF MASONRYTOPTOP OF PARAPETTOSTOP OF STEEL		SAND, MORTAR, GROUT	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	2. SEE THE SPECIFICATIONS AND STRUCTURAL DESIGN CRITERIA FOR REQUIRED PERFORMANCE	
FRMG FRAMING FRTW FIRE RETARDANT TREATED WOOD FS FAR SIDE	TOSTOP OF STEELTOSPTOP OF STRUCTURAL PANELTOTTOP OF TRUSS			VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION	AND LOADING CRITERIA. 3. DEFERRED SUBMITTALS ARE SUBJECT TO ALL THE REQUIREMENTS OF OTHER SUBMITTALS.	
FS FAR SIDE FT FEET, FOOT FTG FOOTING	TOT TOP OF TRUSS TOW TOP OF WALL TS TUBE STEEL		CONCRETE, CAST IN PLACE	DOCUMENTS. 16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE	 SUBMITTAL DOCUMENTS AND SUPPORTING DESIGN CALCULATIONS SHALL BE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER. 	
FURG FURRING GA GAGE	TYP TYPICAL UC UNDERCUT			STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE	5. DOCUMENTS AND CALCULATIONS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO	
GALV GALVANIZED GLB GLUED LAMINATED BEAM	UNO UNLESS NOTED OTHERWISE UON UNLESS OTHERWISE NOTED		CONCRETE, PRE-CAST OR TILT UP	CONSTRUCTION DOCUMENTS. 17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR	THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE PROJECT PRIOR TO SUBMITTAL TO THE ENFORCEMENT AGENCY.	
GR GRADE H HIGH, HEIGHT	VERT VERTICAL VIF VERIFY IN FIELD		JUNCIEL, FILLOAUT OK HELUM	CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.	6. DEFERRED SUBMITTAL ITEMS SHALL NOT BE FABRICATED OR INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE ENFORCEMENT AGENCY.	
HCT HOLLOW CLAY TILE HDR HEADER	VR VAPOR RETARDER W WIDE, WIDTH, WELD, W-SHAPE				LIST OF DEFERRED SUBMITTALS: 1. ELEVATOR GUIDE RAILS AND SUPPORTS	
HGR HANGER HLDN HOLDDOWN HORIZ HORIZONTAL	W/ WITH W/O WITHOUT WE WIDE ELANGE		MASONRY, TERRACOTTA	EXISTING CONSTRUCTION 5- 020000 N001A 170125 02		
HORIZ HORIZONTAL HS HIGH STRENGTH HSB HIGH STRENGTH BOLT	WF WIDE FLANGE WHS WELDED HEADED STUD WL WIND LOAD			170125. Q2 1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENCINEER OF ANY CONFLICTS OF DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION		
HSB HIGH STRENGTH BOLT HSS HOLLOW STRUCTURAL SECTION HT HEIGHT	WL WIND LOAD WO WHERE OCCURS WP WORKING POINT		MASONRY, GRANITE	ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.		
ICC INTERNATIONAL CODE COUNCIL ID INSIDE DIAMETER	WF WORKING FOINT WT WEIGHT, W TEE-SHAPE WTS WELDED THREADED STUD			2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON		
IJ ISOLATION JOINT INFO INFORMATION	WWRWELDED WIRE REINFORCEMENTXSEXTRA STRONG		STEEL	INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE		
INT INTERIOR	XXS DOUBLE EXTRA STRONG			THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.		
				 VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS. 		
			ALUMINUM	4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.		
				5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS		
			WOOD BLOCKING OR SHIM	INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.		
				6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO,		
			WOOD FRAMING CONTINUOUS	PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR		
				TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.		
			WOOD	7. EXISTING FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATIONS REQUIRED FOR THIS PROJECT SHALL BE UNDERPINNED, SHORED OR SUPPORTED ADEQUATELY TO PREVENT		
			WOOD	SETTLEMENT AND LATERAL MOVEMENT.		
				8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER, SUCH DAMAGE OR DIFFERENCE SHALL		
				INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING,		
				AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL. 9. WHEN DRILLING/CORING HOLES AT EXISTING CONCRETE OR MASONRY. DO NOT DAMAGE		
				EXISTING REINFORCING (REBAR OR PRE/POST- TENSIONED STRANDS) UNLESS SPECIFICALLY NOTED OTHERWISE. LOCATE ALL EXISTING REINFORCING AT AFFECTED AREAS USING NON-		
				DESTRUCTIVE MEANS PRIOR TO DRILLING/CORING HOLES. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE HOLE.		
				10. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER		
				CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.		
				11. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.		
					J	



S-001

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STRUCTURAL SUBMITTALS	STRUCTURAL OBSERVATION	FOUNDATION AND EARTHWORK	REINFORCED MASONRY
170125. Q2 1. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS. 2. SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.	170125. Q2 1. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.	170125. Q2 1. ALL FOUNDATION AND EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, GRADING, FILLING, SUB-GRADE PREPARATION, SOIL TREATMENT, ASSOCIATED SITE WORK, TRENCHING AND BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.	 MASONRY WORK, MATERIALS, CONSTRUCTION, AND QUALITY SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6. COMPLETED MASONRY ASSEMBLIES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH (F'M) OF 2,000 PSI MINIMUM. COMPRESSIVE STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH
3. SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.	 STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION. 	2. THE GEOTECHNICAL INFORMATION PROVIDED IS BASED UPON A GEOTECHNICAL REPORT PROVIDED BY THE OWNER FOR THIS PROJECT. THE GEOTECHNICAL REPORT WAS USED FOR THE DESIGN INDICATED IN THESE CONSTRUCTION DOCUMENTS. THE GEOTECHNICAL REPORT AND THE RECOMMENDATIONS CONTAINED THEREIN SHALL BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS. COMPLY WITH THE REQUIREMENTS AND RECOMMENDATIONS	 HOLLOW AND SOLID CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MAXIMUM OVEN DRY DENSITY OF 135 PCF. UNITS SHALL HAVE A NET AREA COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM.
 EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER. 	3. STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.	CONTAINED IN THE GEOTECHNICAL REPORT. 3. THE GEOTECHNICAL INFORMATION PROVIDED IS NOT A WARRANTY OF THE SITE OR SUBSUBEACE CONDITIONS, PRIOR TO BIDDING AND AT NO COST TO THE OWNER, SITE VISITS TO	 MORTAR SHALL CONFORM TO ASTM C270-TYPE S. MASONRY UNITS AND MORTAR SHALL CONFORM TO THE COLOR AND STYLE SPECIFIED BY THE
 PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCLUMENT THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO THE INTERNO THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCLUMENT THE STRUCTURAL ENGINEER SHALL DE RETURNED WITHOUT TO REVEW PHETAL SUBMISSION TO THE STRUCTURAL ENGINEER SHALL STATE DIFFERSION TO REVEW PHETAL SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER THE OWNER'S TESTING LABORATORY SHALL STAMP THE FOLLOWING MARKED SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. CONCRETE MIXDESIGNS AND SUBSTANTIATING TEST DATA MELDING PROCEDURE SPECIFICATIONS SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, INTEL STRUCTURAL ENGINEER SUBMITTALS. SUBMITTALS. SUBMITTALS. SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER VIEW PORTO ON ACCOUNT ON CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS. SUBMITTALS. SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER TO ALL PROVIDE ON CONSTRUCTION ACCORDINGLY. REVIEW DEPORDOD OF. TEN (10) WORK DAYS FOR PROLOT ON ACCOUNTER SO AN IOT TO RASON PROTION THERE OF FOR ACCOUNT AND ADD REVEND FOR EACH 100 SHEETS, OTHER SUBMITTAL REVEW PERIOD OCCOUNTER SO AND ADD REVENDED AND ACCOUNTER SO AND ADD ADD REVENDER OF AND ADD REVENDED AND ACCOUNTER SO AND ADD REVENDED	 THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER: FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT IF CONWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT CONCRETE TRACEAST ELEMENT PANEL INSTALLATION MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO GOUT PLACEMENT STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT STEEL DECK INSTALLATION ON FRAMING WOOD STRUCTURAL PANEL INSTALLATION ON STRUCTURAL FRAMING WOOD STRUCTURAL PANEL INSTALLATION ON STRUCTURAL FRAMING WOOD STRUCTURAL PANEL INSTALLATION ON STRUCTURAL FRAMING WOOD STRUCTURAL OSSERVER 48 HOURS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER COORDINATE WITH THE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER COORDINATE WITH THE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER TO ODESIGN TO ALLOW STRUCTURAL OBSERVATIONS. DEVIATIONS FROM THE CONSTRUCTION DACLOMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST SINCURRED TO CORRECT DEVIATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST SINCURRED TO CORRECT DEVIATIONS SHALL DOWNER TO ALLOW STRUCTURAL OBSERVATION. DEVATIONS SHALL COMPLY WITH THE REQUI	 SUBSURFACE CONDITIONS PRICE TO BIDDING AND AT NO COST TO THE OWNER, SITE VISITS TO INVESTIGATE OR TO DERFORM ADDITIONAL SUBURFACE, INVESTIGATIONS MAY BE MADE TO DETERMINE THE EXISTING CONDITIONS. SUCH INVESTIGATIONS MAY BE PREFORMED ONLY UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED BY THE OWNER IN ADVANCE. AN OWNER-RETAINED SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER SHALL PROVIDE TESTING REQUESTION AS ERVICES DURING ALL FOUNDATION AND EARTHWORK. PRIOR TO REQUESTION AS ENFORCEMENT A GENCY FOUNDATION AND EARTHWORK. PRIOR TO REQUESTION AN ENFORCEMENT AGENCY FOUNDATION AND EARTHWORK. PRIOR TO DOUMENTATION FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER THAT THE FOUNDATION AND EARTHWORK IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. NOTIFY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER 48 HOURS IN ADVANCE OF THE TIME WHEN THE FOUNDATION EXCAVATIONS AND EARTHWORK WILL BE COMPLETE AND READY FOR FORMS OR REINFORCING PLACEMENT. NO FORMS OR REINFORCINGS SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER. FOUNDATIONS SHALL EXTEND INTO FIRM BEARING IN UNDISTURBED SOIL, OR WHERE REQUIRED, IN COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS, FOUNDATION DETHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATION IS REQUIRED TO BE OVER EXCAVATED TO TRACH SUPLACED WITH COMPACTED FILM ATERIAL OR CONTROLLED LOW-STRENOTH MATERIAL PER THE CONSTRUCTION ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATION IS REQUIRED TO BE OVER EXCAVATED TO REACH SUPLACED WITH COMPACTED FILM ATERIAL OR CONTROLLED LOW-STRENOTH MATERIAL PER THE CONSTRUCTION ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATION IS REQUIRED THE REMOVED MATERIAL MAY BE REPRUEDED FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER, FORWARD WITTEN DOCUMENTATION TO THE REMOVED MATERIAL MAY BE REPRUEDED TO THE STATO TO NEXCAVATIO	 MASONRY UNITS AND MORTAR SHALL CONFORM TO THE COLOR AND STYLE SPECIFIED BY THE ARCHITECT. GROUT SHALL CONFORM TO ASTM C476 OR BE PROPORTIONED TO ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2 000 PSI MINIMUM AS TESTED PER ASTM C1019. THOROUGHLY MIX GROUT MATERIALS AND WATER TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT WITHOUT SEGREGATION OR SEPARATION. MIX GROUT TO A CONSISTENCY THAT HAS A SLUMP BETWEEN 8 AND 11 INCHES. GROUT PROVIDE DOR POURS DEQUATE 5'LUIDITY FOR PLACEMENT WITHOUT SEGREGATION OR SEPARATION. MIX GROUT TO A CONSISTENCY THAT HAS A SLUMP BETWEEN 8 AND TINCHES. GROUT PROVIDED FOR POURS OVER 5'4' IN HEIGHT SHALL CONTAIN AN ADMIXTURE OF THE TYPE THAT REDUCES EARLY WATER LOSS TO THE MASONRY UNITS. AND PRODUCES AN EXPANSIVE ACTION IN THE PLASTIC GROUT SUFFICIENT TO OFFSET INITIAL SHRINKAGE AND PROMOTE BONDING OF THE GROUT TO ALL INTERIOR SURFACES OF THE MASONRY UNITS. ADDITIVES AND ADMIXTURES SHALL NOT BE USED FOR MORTAR OR GROUT UNLESS ACCEPTABLE TO THE ENFORCEMENT AGENCY. ADDITVES AND ADMIXTURES SHALL BUSED IN ACCEPTABLE TO THE ENFORCEMENT AGENCY. ADDITVES AND ADMIXTURES SHALL BUSED IN ACCEPTABLE TO THE ENFORCEMENT AND VALID LISTING ISSUED BY AN ACCEPTABLE EVALUATION REPORTS SHALL HAVE A CURRENT AND VALID LISTING ISSUED BY AN ACCEPTABLE EVALUATION AGENCY. ANTI-FREEZE OR AIR ENTRAINMENT SUBSTANCES SHALL NOT BE USED. REINFORCING BARS SHALL CONFORM TO ASTM A615-GRADE 60 OR ASTM A706-GRADE 60. THE ACTUAL YIELD STRENGTH. JOINT REINFORCEMENT SHALL CONFORM TO ASTM A615. JOINT REINFORCEMENT SHALL CONFORM TO ASTM MAD. SHEET METAL ANCHORS SHALL CONFORM TO ASTM MAD. SHEET METAL ANCHORS SHALL CONFORM TO ASTM A62. SHEET METAL ANCHORS SHALL CONFORM TO ASTM A30. ANCHOR BOLTS SHALL HAVE HEX HEADS AND CONFORM TO ASTM A30. GRADE A OR ASTM PI654-GRADE 38. ANDLO OUBLE NUTS AT THE ANCHORED END. NUTS FOR BOLTS OR AOSTM A33 WITH THREADED INDIS AND AGAING AND CONFORM TO ASTM A30. GRADE A OR ASTM A35 WA
CONCRETE PRODUCT CERTIFICATION AND DATA SHEETS CONCRETE SLAB JOINT LAYOUT MASONRY REINFORCING PLACEMENT DRAWINGS MASONRY GROUT MIX DESIGNS AND SUBSTANTIATING TEST DATA MASONRY PRODUCT CERTIFICATION AND DATA SHEETS STRUCTURAL STEEL SHOP DRAWINGS STEL DECK PLACEMENT DRAWINGS AND DATA SHEETS WELDING PROCEDURE SPECIFICATIONS METAL-PLATE-CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS WOOD I-JOIST PLACEMENT DRAWINGS AND CALCULATIONS METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS METAL WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS COLD-FORMED STEEL STAIR SHOP DRAWINGS AND CALCULATIONS COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS		 FOUNDATIONS, SEE ALL OTHER CONSTRUCTION DOCUMENTS. 12. FOUNDATION ELEMENTS SHOWN ARE INDICATED IN THEIR COMPLETED LOCATION AND CONDITION. FILL AROUND FOUNDATION ELEMENTS SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE OR MOVE THE FOUNDATION, WATER-PROOFING OR DAMP-PROOFING. SHORE AND ADEQUATELY SUPPORT FOUNDATION WATER-PROOFING OR DIL UNTIL THE FOUNDATION ELEMENTS AND THEIR SUPPORTING STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND ATTAINED THEIR REQUIRED DESIGN STRENGTHS. 13. FOUNDATION EXCAVATIONS SHALL BE CLEANED OF DEBRIS, LOOSE SOIL AND STANDING WATER DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PROVIDE FOR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATIONS DUE TO ANY SOURCE. 14. FOUNDATION EXCAVATIONS SHALL BE MADE TO THE SIZES AND SHAPES REQUIRED BY THE CONSTRUCTION DOCUMENTS. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY. 15. EXTERIOR FINISHED GRADES OR SURFACES SHALL HAVE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. GROUND SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2%. PLANTERS SHALL HAVE ADEQUATE SURFACE DRAINAGE TO PREVENT STANDING WATER ADJACENT TO THE FOUNDATIONS. 16. WHERE EXCAVATIONS OCCUR ADJACENT TO EXISTING STRUCTURES, PROVIDE ADEQUATE UNDERPINNING, SHORING OR SUPPORT TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF THE EXISTING FOUNDATIONS. FOUNDATIONS ADJACENT TO EXISTING STRUCTURES, PROVIDE ADEQUATE UNDERPINNING, SHORING OR SUPPORT TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF THE EXISTING FOUNDATIONS. FOUNDATIONS ADJACENT TO EXISTING SOUNDATIONS SHALL PENETRATE A MINIMUM OF THE SAME DEPTH AS EXISTING, UNLESS OTHERWISE NOTED. 17. FOUNDATION SIZES SHALL BE AS REQUIRED ON THE CONSTRUCTION DOCUMENTS. THE 	 PLACE UNITS AND MORTAR TO PROVIDE CONSISTENT THICKNESS BED AND HEAD JOINTS UNO. TOOL MORTAR JOINTS CONCAVE UNO. REMOVE MORTAR PROTRUSIONS EXTENDING MORE THAN 1/2" INTO GROUTED SPACES. DURING PLACEMENT, REMOVE MORTAR DROPPINGS FROM HORIZONTAL CONSTRUCTION JOINTS, INTERIOR MASONRY SURFACES AND REINFORCING STEEL. PLACE MORTAR AND MASONRY UNITS TO SOLIDLY FILL JOINTS AS FOLLOWS: BED JOINTS AT HOLLOW-UNIT FACE SHELLS, END WEBS, AND FULL HEIGHT CROSS WEBS; HEAD AND END JOINTS AT OPEN ENDS OF HOLLOW-UNITS FOR A MINIMUM DISTANCE FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS OF THE UNIT; HEAD AND END JOINTS AT CLOSED ENDS OF HOLLOW- UNITS; JOINT LOCATIONS NECESSARY TO CONFINE GROUT; BED, HEAD AND 3/4" OR LESS COLLAR JOINTS AT SOLID UNITS. PLACE JOINT REINFORCEMENT SO THAT LONGITUDINAL WIRES ARE EMBEDDED IN MORTAR JOINTS WITH MINIMUM 6" LAP SPLICES. STAGGER ADJACENT LAP SPLICES WITH NO OVERLAP. PROVIDE MINIMUM MORTAR COVER OF 1/2" FROM INTERIOR SURFACES AND 5/8" FROM EXTERNAL SURFACES. MINIMUM REBAR COVER FROM EXTERNAL MASONRY SURFACES EXPOSED TO EARTH OR WEATHER SHALL BE 2" FOR #6 REBAR AND LARGER, AND 1 1/2" FOR #5 REBAR AND SMALLER, UNO. MINIMUM REBAR COVER FROM EXTERNAL MASONRY SURFACES NOT EXPOSED TO EARTH OR WEATHER SHALL BE 1 1/2", UNO.
		MINIMUM DEPTH NOTED SHALL BE BELOW THE ADJACENT UNDISTURBED GROUND SURFACE. THE MINIMUM DEPTH SHALL ALSO EXTEND BELOW THE FROST LINE OF THE LOCALITY. FOOTINGS SHALL NOT BEAR ON FROZEN SOIL. CONTROLLED LOW STRENGTH MATERIAL (CLSM) S- 033000 N004A 200203. Q2 1. CLSM SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI AS TESTED PER ASTM D4832.	 CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318. SEE CONCRETE MIX DESIGN TABLE FOR REQUIRED CONCRETE PROPERTIES. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II AND TYPE V AT EXTERIOR EXPOSED CONDITIONS. AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR



- CLSM SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI AS TESTED PER ASTM D4832.
- 2. CLSM MATERIALS SHALL MEET THE RECOMMENDATIONS OF ACI 229R.
- 3. CLSM SHALL HAVE A MINIMUM SLUMP OF 10".
- 4. TESTING LAB SHALL FIELD VERIFY STRENGTH OF CLSM, WITH A MINIMUM FREQUENCY OF ONE TEST PER DAY.

WELDED WIRE ASTM A1064. DIMENSIONS LO DENOTE CLEAP A. CONCRETE - SLAB ON G B. CONCRETE - #6 THRU # - #5 BAR, W3

- C. CONCRETE - BEAMS & (- SLABS & W 9. SPLICES IN CON
- UNO. SPLICES SPLICES OF #14 FOR THE FULL LAP SPLICE LEN 1.33. INDIVIDUA NOT BE LAP SPL

HAVE THE TOP CENTERLINE OI FOOTINGS SHAL THE BOTTOM BA TERMINATED W BEAM.

- 11. PROVIDE FOUN WALL/COLUMN STANDARD HOC TO EACH WALL
- 12. HOOKS SHALL 13. ITEMS TO BE EM
- SLEEVES, ETC ? 14. THE LOCATION
- ON GRADE JOIN LOCATION PLAN 15. SURFACE OF CO IMMEDIATELY B
- STANDING WAT 1/4" MINIMUM AN 16. FORM 3/4" CHAN
- 17. EXTERIOR SLAB WWR IN CENTER
- 18. NO CONDUIT, F CONCRETE BEA STRUCTURAL E POSITIONED SU

RCED MASONRY

22. MINIMUM REBAR CLEARANCE TO INTERNAL MASONRY SURFACES SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1/2". HORIZONTAL REBAR CAN BEAR ON THE CROSS WEBS OF BOND BEAM UNITS. REBAR WITH HOOKS OR BENDS SHALL BE SKEWED WITHIN CELLS TO MAINTAIN REQUIRED CLEARANCE. CONSTRUCT MASONRY AND CUT UNITS TO MAINTAIN REQUIRED CLEARANCE.

23. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL REBAR SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1". IN COLUMNS AND PILASTERS THE MINIMUM CLEAR DISTANCE BETWEEN VERTICAL REBAR SHALL BE THE GREATER OF ONE AND ONE-HALF REBAR DIAMETERS OR 1 1/2". THE SAME LIMITATIONS SHALL APPLY TO THE CLEAR DISTANCE BETWEEN A REBAR SPLICE AND ADJACENT SPLICES OR REBAR. 24. HOLD REINFORCING IN PLACE USING WIRE TIES OR SPACING/POSITIONER DEVICES. VERTICAL

REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM OF EACH GROUT POUR AND AT INTERVALS NOT TO EXCEED 192 REBAR DIAMETERS. HORIZONTAL REINFORCING SHALL BE HELD IN POSITION AT EACH END AND AT INTERVALS NOT TO EXCEED 192 REBAR DIAMETERS. /E STRENGTH OF 2,000 PSI MINIMUM AS TESTED PER ASTM C1019. THOROUGHLY MIX 25. SPLICE VERTICAL REBAR WITH FOUNDATION DOWELS THAT MATCH GRADE, QUANTITY, SIZE AND SPACING. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3" ABOVE

BOTTOM OF FOOTING UNO. DOWELS SHALL BE STRAIGHT AND PLUMB. 26. PLACE VERTICAL REBAR IN CONTINUOUS VERTICAL CELLS. PLACE HORIZONTAL REBAR IN CONTINUOUS HORIZONTAL BOND BEAM UNITS. CONSTRUCT MASONRY AND CUT UNITS TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE REINFORCED VERTICAL AND HORIZONTAL CELLS.

27. REBAR BENDS AND HOOKS SHALL COMPLY WITH TYPICAL DETAILS UNO. HAIR PINS AND 180 DEGREE HOOKS SHALL COMPLY WITH TYPICAL DETAIL FOR STIRRUPS, HOOPS AND TIES. DO NOT BEND REBAR AFTER IT IS EMBEDDED IN GROUT OR MORTAR.

28. REBAR SPLICES SHALL BE MADE BY FULL CONTACT LAP SPLICES. SPLICES FOR DIFFERENT REBAR SIZES SHALL BE THE LENGTH REQUIRED FOR THE LARGER REBAR. AT LOCATIONS OTHER THAN FOUNDATION DOWELS, STAGGER ADJACENT LAP SPLICES WITH NO OVERLAP. REBAR SHALL BE LAP SPLICED AS FOLLOWS UNO: #3 REBAR - 40 DIA = 15" #4 REBAR - 48 DIA = 24" #5 REBAR - 56 DIA = 35" #6 REBAR - 72 DIA = 54"

#8 REBAR - 72 DIA = 72" 29. REINFORCEMENT AND EMBEDDED ITEMS SHALL BE PLACED AND ANCHORED TO PREVENT MOVEMENT PRIOR TO GROUTING. BOLTS SHALL BE SET WITH TEMPLATES OR EQUIVALENT MEANS. WHERE EMBEDDED ITEMS PASS THROUGH MASONRY SURFACES CUT A CLEAN HOLE T PROVIDE A MINIMUM OF 1/2" GROUT ALL AROUND EMBEDDED ITEM.

#7 REBAR - 72 DIA = 63"

30. LOW-LIFT AND HIGH-LIFT GROUTED CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS AND THE METHODS USED SHALL BE ACCEPTABLE TO THE ENFORCEMENT AGENCY. HIGH-LIFT GROUTING FOR GROUT POURS OVER 5'-4" IN HEIGHT MAY BE USED WHERE GROUT SPACE DIMENSIONS. OPENINGS, UNIT PATTERN ARRANGEMENTS, REINFORCING, AND EMBEDDED ITEMS DO NOT PREVENT THE FREE FLOW OF GROUT OR INHIBIT THE MECHANICAL CONSOLIDATION OF THE GROUT.

31. BEFORE GROUTING CLEAN SPACES TO BE GROUTED. REMOVE OVERHANGING MORTAR, MORTAR DROPPINGS, OBSTRUCTIONS AND DEBRIS FROM INSIDE OF SPACES TO BE GROUTED.

32. PROVIDE CLEANOUT OPENINGS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR OVER 5'-4" IN HEIGHT, CONSTRUCT OPENINGS OF SUFFICIENT SIZE AND SPACING TO PERMIT CLEANING OF GROUT SPACES, REMOVAL OF DEBRIS AND INSPECTION. AFTER CLEANING AND INSPECTION, CLOSE CLEANOUTS WITH MORTARED MASONRY BRACED TO RESIST GROUTING PRESSURES.

33. GROUT SHALL BE PLACED SUCH THAT SPACES TO BE GROUTED DO NOT CONTAIN VOIDS. SPACES TO BE GROUTED INCLUDE ALL CELLS, BOND BEAMS, VOIDS AND SPACES CREATED BY THE MASONRY CONSTRUCTION. SPACES TO BE GROUTED SHALL BE FILLED SOLIDLY WITH GROUT UNO. PARTIAL GROUTING IS NOT PERMITTED UNLESS SPECIFICALLY NOTED. GROUTING SHALL BE PERFORMED UNDER THE CONTINUOUS OBSERVATION OF A QUALIFIED INSPECTOR.

34. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER PROVIDE HORIZONTAL GROUT CONSTRUCTION JOINTS. DO NOT FORM HORIZONTAL GROUT CONSTRUCTION JOINTS IN BEAMS OR LINTELS.

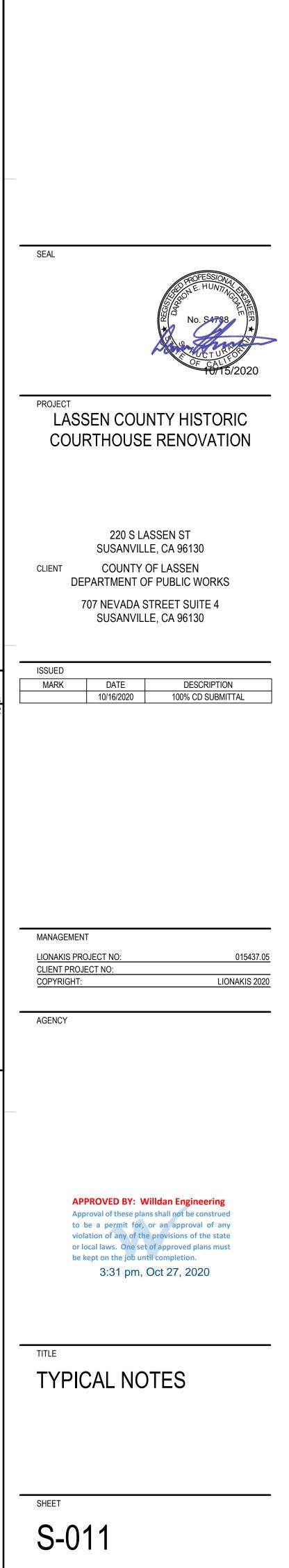
35. THE SECTION OF WALL TO BE GROUTED IN ANY ONE POUR IS LIMITED TO A LENGTH IN WHICH SUCCESSIVE LIFTS CAN BE PLACED WITHIN ONE HOUR OF THE PRECEDING LIFTS. CONSTRU FULL-HEIGHT VERTICAL GROUT BARRIERS BETWEEN POUR SECTIONS TO CONTROL THE HORIZONTAL FLOW OF GROUT.

36. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12" IN HEIGHT SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO MINIMIZE VOIDS DUE TO WATER LOSS. GROUT RECONSOLIDATION SHALL OCCUR AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY HAS BEEN LOST.

37. PREPARE, CONSTRUCT AND PROTECT MASONRY WORK FROM THE WEATHER UNTIL GROUTED AND CURED. IMPLEMENT COLD WEATHER CONSTRUCTION PROCEDURES WHEN THE AIR TEMPERATURE FALLS BELOW 40 DEG F. IMPLEMENT HOT WEATHER CONSTRUCTION PROCEDURES WHEN THE AIR TEMPERATURE EXCEEDS 90 DEG F.

38. CLEAN EXPOSED MASONRY SURFACES TO REMOVE STAINS, EFFLORESCENCE, MORTAR OR GROUT DROPPINGS, AND DEBRIS.

R	EINFORCED CONCRETE										
4	180809. Q2										
1.	CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318.				ESIGN TABL			B # 4 \ -			
2.	SEE CONCRETE MIX DESIGN TABLE FOR REQUIRED CONCRETE PROPERTIES.	LOCATION	REQ SCM (% BY WEIGHT			AIR CONTENT			ACI EXPOSURE		
3.	PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II AND TYPE V AT EXTERIOR EXPOSED CONDITIONS.		OF TOTAL CEMENTITIOUS MATERIALS)	STRENGH (PSI)	STRENGH (PSI)		RATIO	WEIGHT (LBS/FT ³)	CLASS		
	AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR LIGHTWEIGHT CONCRETE. MAXIMUM AGGREGATE SIZE USED IN MIXES SHALL BE APPROPRIATE FOR FORM AND REBAR CLEARANCES TO BE ENCOUNTERED.	INT BELOW GRADE CONCRETE AND SLAB	15	2500 PRIOR TO LOADING	3000	NONE	0.50	145	F0, S0, W0, C1		
5.	REINFORCING STEEL SHALL CONFORM TO ASTM A706, GRADE 60. REINFORCING STEEL CONFORMING TO ASTM A615 MAY BE USED IF THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI AND THE RATIO OF THE ACTUAL TENSILE STRENGTH TO THE ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25.	(FTGS, GRADE BEAMS) INTERIOR WALLS, ELEVATED	15	-	5000	NONE	0.45	145	F0, S0, W0, C1		
6.	REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. WELD FILLER METAL FOR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4, Fu=80 KSI. WELDING SHALL CONFORM WITH AWS D1.4.	BEAMS AND COLUMNS EXTERIOR		2000 00100			0.40	A 4 F			
7.	WELDED WIRE REINFORCEMENT SHALL BE COMPOSED OF FLAT SHEETS AND CONFORM TO ASTM A1064.	EXPOSED SITE CONC (PAVEMENTS, CURBS,	15	3000 PRIOR TO BACKFILL AT WALLS	5000	6.0	0.40	145	F3, S2, W2, C2		
8.	 DIMENSIONS LOCATING REINFORCING STEEL ARE TO THE FACE OF REINFORCING STEEL AND DENOTE CLEAR COVERAGE. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNO: A. CONCRETE CAST AGAINST EARTH (EXCEPT SLAB ON GRADE) - 3" SLAB ON GRADE CENTER REINF IN SLAB, UNO B. CONCRETE FORMED & EXPOSED TO EARTH OR WEATHER: #6 THRU #18 BARS - 2" #5 BAR, W31 OR D31 WIRE, & SMALLER - 1 1/2" 	GUTTERS, FTGS, AND WALLS) UNLESS OTHERWISE SPECIFIED * 3 PERCENT	MAX AIR AT STE								
	 C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: BEAMS & COLUMNS - 1 1/2" SLABS & WALLS: #14 & #18 BARS - 1 1/2", #11 BAR & SMALLER - 3/4" 		NATION WILL NO DIF AIR CONTEN				EZE-THA	W UNTIL S	SPACE IS		
9.	SPLICES IN CONTINUOUS REINFORCING SHALL BE LAPPED AS NOTED IN THE TYPICAL DETAIL, UNO. SPLICES IN ADJACENT BARS SHALL BE STAGGERED SO THERE IS NO OVERLAP. LAP SPLICES OF #14 & #18 REBAR IS NOT PERMITTED AND BARS SHALL BE CONTINUOUS ONE PIECE FOR THE FULL LENGTH SHOWN. LAP SPLICES OF REBAR IN A BUNDLE SHALL BE EQUAL TO THE LAP SPLICE LENGTH REQUIRED FOR THE INDIVIDUAL BARS WITHIN THE BUNDLE MULTIPLIED BY 1.33. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.										
10	. UNLESS DETAILED OTHERWISE: REINFORCING IN CONTINUOUS BEAMS AND SPANDRELS SHALL HAVE THE TOP BARS SPLICED AT MID-SPAN AND THE BOTTOM BARS SPLICED AT THE CENTERLINE OF SUPPORTS. REINFORCING IN CONTINUOUS SOIL-BEARING GRADE BEAMS OR FOOTINGS SHALL HAVE THE TOP BARS SPLICED AT CENTERLINE OF COLUMN SUPPORTS AND THE BOTTOM BARS SPLICED AT MID-SPAN. AT DISCONTINUOUS ENDS, THE BARS SHALL BE TERMINATED WITH A STANDARD HOOK EXTENDED TO THE FAR FACE OF THE SUPPORT OR BEAM.										
11	. PROVIDE FOUNDATION DOWELS TO MATCH GRADE, QUANTITY, SIZE & SPACING OF WALL/COLUMN REINFORCEMENT. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING, UNO. PROVIDE STANDARD LAP AT DOWELS TO EACH WALL/COLUMN REBAR.										
12	. HOOKS SHALL BE STANDARD HOOKS, UNO.										
13	. ITEMS TO BE EMBEDDED IN CONCRETE, SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC SHALL BE SECURELY TIED AND SUPPORTED PRIOR TO PLACING CONCRETE.										
14	. THE LOCATION OF SLAB ON GRADE JOINTS SHALL BE AS INDICATED ON THE DRAWINGS. SLAB ON GRADE JOINT SPACINGS ARE NOT TO EXCEED 12'-0" IN EITHER DIRECTION, UNO. SUBMIT LOCATION PLAN FOR ALL PROPOSED JOINTS FOR REVIEW.										
15	. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED. IMMEDIATELY BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED. CONSTRUCTION JOINT SURFACES SHALL BE ROUGHENED TO A 1/4" MINIMUM AMPLITUDE, UNO.										
16	. FORM 3/4" CHAMFER AT ALL EXPOSED WALL AND COLUMN EDGES AND CORNERS, UNO.										
17	. EXTERIOR SLABS INCLUDING SIDEWALKS SHALL BE 4" MIN THICKNESS AND HAVE 6x6-W1.4xW1.4 WWR IN CENTER OF SLAB, UNO.										
18	NO CONDUIT, PIPE, OR SLEEVES LARGER THAN 1" OD SHALL BE PLACED IN OR THROUGH CONCRETE BEAMS OR SLABS UNLESS SPECIFICALLY DETAILED AND APPROVED BY THE STRUCTURAL ENGINEER. CONDUIT OR PIPES 1" OD AND SMALLER SHALL BE SPACED & POSITIONED SUCH THAT THE EFFECTIVENESS OF THE REBAR IS NOT REDUCED.										



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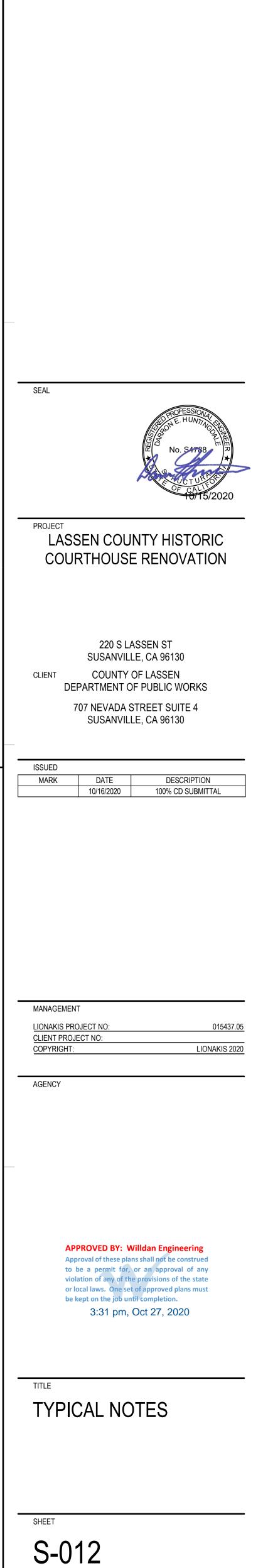
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COLD-FORMED STEEL FRAMING	STEEL DE
S- 054000 N 170828	
THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED STEEL FRAMING SHALL B ACCORDANCE WITH THE FOLLOWING AISI NORTH AMERICAN STANDARDS: S100 - SPECIFICATION FOR THE DESIGN OF STRUCTURAL MEMBERS	IN 1. STEEL DECKING WITH THE BUILD
S200 - GENERAL PROVISIONS S210 - FLOOR AND ROOF SYSTEM DESIGN S211 - WALL STUD DESIGN S212 - HEADER DESIGN	2. PRODUCTS SHA DIMENSIONS, P SEE CONSTRUC
S213 - LATERAL DESIGN S214 - TRUSS DESIGN	3. WELDING MATE STRUCTURAL S SHALL HAVE A
ALL PRODUCTS SHALL POSSESS DIMENSIONS, SECTION PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE AISI D100 MANUAL OF COLD-FORMED STEEL DESIGN AND BE MANUFACTURED BY A CURRENT MEMBER OF THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) OR "STEEL FRAMING INDUSTRY ASSOCIATION" (SFIA).	4. BARE STEEL DE
PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENE ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR	
COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FO THE STEEL MEMBERS USED.	
STEEL MEMBERS AND COMPONENTS SHALL BE GALVANIZED ZINC-COATED PER ASTM A653 WI COATING WEIGHTS AS FOLLOWS UNO: NON-STRUCTURAL MEMBERS G40, STRUCTURAL MEMBERS G60, ALL MEMBERS PERMANENTLY EXPOSED TO UN-CONDITIONED AIR G90, ALL MEMBERS USED IN MARINE ENVIRONMENTS G185.	
STEEL MEMBERS 18 GA OR LIGHTER SHALL BE MANUFACTURED PER A1003 STRUCTURAL GRA 33 TYPE H (ST33H), AND 16 GA OR HEAVIER PER A1003 STRUCTURAL GRADE 50, TYPE H (ST50H	Ε
THE MINIMUM UNCOATED STEEL THICKNESS AS DELIVERED TO THE JOBSITE SHALL BE: 25 GA 0.018", 22 GA = 0.027", 20 GA = 0.033", 18 GA = 0.043", 16 GA = 0.054". 14 GA = 0.068", 12 GA = 0.097"	POSSIBLE. SINC
STUDS/JOISTS SHALL HAVE 1 5/8" WIDE FLANGES, TYP UNO.	9. STEEL DECK SH OVER STRUCTU
STUDS/JOISTS SHALL HAVE WEB PUNCH-OUTS AT 24" OC AT MID-DEPTH. PUNCH-OUTS SHALL NOT EXCEED 1 1/2" IN WIDTH, AND 4" IN LENGTH. NO OTHER OPENINGS IN STUDS/JOISTS ARE PERMITTED UNLESS SPECIFICALLY DETAILED.	UNO. BARE STE ENDS ARE DIE S
TRACK SHALL MATCH STUD/JOIST DEPTH & GAGE, AND FLANGE WIDTH SHALL BE 1 1/4", TYP, U ALL TRACKS TO BE UNPUNCHED WITH SOLID WEBS.	11. ARC SPOT WEL
D. FASTENING OF FRAMING COMPONENTS SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREW OR WELDING. WHERE DETAILS CALL FOR SCREWS, THE MINIMUM SIZES SHALL BE AS FOLLOW #6 FOR 22 GA OR LIGHTER MATERIAL, #8 FOR 20 GA MATERIAL, #10 FOR 18 & 16 GA MATERIAL, # 12 FOR 14 GA OR HEAVIER MATERIAL, TYP UNO. SCREW SIZE IS DETERMINED BY THE GA OF T THICKEST PART BEING JOINED UNO. INSTALL SCREWS WITH THE HEAD IN CONTACT WITH THE THINNEST PART BEING JOINED UNO. AS AN ALTERNATE, STEEL MEMBERS 18 GA OR HEAVIER MAY BE WELDED WITH A 1/2" LONG WELD (FILLET OR FLARE GROOVE) INSTEAD OF EACH SCRE TYP UNO.	S: # 12. ARC SEAM WEL E A MINIMUM 3/8" DISTANCE SHAL LONGITUDINAL
 SCREW SPACING SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER. SCREW EDGE DISTANCE SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL SCREW DIAMETER. PENETRATION OF SCREWS THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN 3 EXPOSI THREADS. SCREW HEADS SHALL BE LOW-PROFILE TYPE. 	14. FILLET WELDS S D SHEET STEEL B
2. SCREWS SHALL CONFORM WITH ASTM C1513 AND HAVE A CORROSION-RESISTANT COATING.	15. FLARE GROOV OF THE THINNE MINIMUM LENG
 BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES, UNO. STANDARD SIZE HOLES SHALL E BOLT DIA + 1/32" FOR BOLTS SMALLER THAN 1/2" DIA, AND BOLT DIA + 1/16" AT 1/2" DIA AND LARGER BOLTS. 	
4. WELDING SHALL CONFORM WITH AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM WITH AWS D1.1. THE ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM YIE STRENGTH OF 60 KSI. WELDS OF GALVANIZED STEEL SHALL BE COATED WITH A ZINC-RICH PARTY	CONNECTIONS
5. FASTENING OF SHEATHING SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS. #6 MIN FO GYPSUM BOARD & #8 MIN FOR STRUCTURAL PANELS. SCREW HEADS SHALL BE COUNTER SUN FLAT-PROFILE TYPE.	र
6. NON-STRUCTURAL INTERIOR WALLS SUPPORTED AT THE BASE AND EXTENDING TO THE BOTT OF STRUCTURE ABOVE SHALL HAVE SLIP TRACKS AT THE TOP, UNO.	STEEL DECK, E
7. FRAME INDIVIDUAL MEMBERS AND EACH ELEMENT OF BUILT-UP MEMBERS, CONTINUOUS ONE PIECE BETWEEN SUPPORTS. SPLICE ONLY WHERE SPECIFICALLY NOTED.	SUSPENDED A WEIGHT OF 4 P DEVICES. COO

4	5
STEEL DECKING S- 053100 N001A	STRUCTURAL STEEL S- 051200 N001A
200401. Q2	190805. Q2
1. STEEL DECKING WORK, MATERIALS, CONSTRUCTION AND QUALITY SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.	 THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
 PRODUCTS SHALL POSSESS CURRENT EVALUATION AGENCY APPROVALS WITH SECTION DIMENSIONS, PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE THE TYPICAL DETAILS. SEE CONSTRUCTION DOCUMENTS FOR STEEL DECK TYPE AND GAGE. 	2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO: <u>STEEL PRODUCT</u> W & WT SHAPES <u>A992, GRADE 50</u> <u>STEEL PRODUCT</u> <u>A992, GRADE 50</u> <u>STEEL PRODUCT</u> <u>A992, GRADE 50</u> <u>A992, FRADE 50 <u>A992, FRADE 50 <u>A992, FRADE 50 <u>A992, FRADE 50 <u>A992, FRADE 50 <u>A992, FRADE 50 <u>A992, FRADE 50</u></u></u></u></u></u></u>
3. WELDING MATERIALS AND PROCEDURES SHALL CONFORM TO AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM TO AWS D1.1. ELECTRODES USED FOR WELDING	HP SHAPES A572, GRADE 50 Fy = 50ksi M, MT, S & ST SHAPES A36 Fy = 36ksi CHANNELS (C & MC) A36 Fy = 36ksi
SHALL HAVE A MINIMUM 60KSI FILLER METAL YIELD STRENGTH.4. BARE STEEL DECK SHALL BE MANUFACTURED BY:	ANGLES A36 Fy = 36ksi PLATES & BARS A36,TYP, UNO Fy = 36ksi A572, GRADE 50 Fy = 50ksi
- "ASC STEEL DECK" PER IAPMO ER 0161 5. SHEET STEEL ACCESSORIES SHALL BE FABRICATED FROM THE SAME GAUGE AND MATERIALS AS	RODS, PLAIN & ALL-THREADEDA36Fy = 36ksiRAISED-PATTERN FLOOR PLATEA786, MEETING ASTM A36Fy = 36ksi
ADJACENT STEEL DECK, UNO.	PIPES A53, GRADE B Fy = 35ksi ROUND HSS A500, GRADE C Fy = 46ksi RECTANGULAR & SQUARE HSS A500, GRADE C Fy = 50ksi
 STEEL DECK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) DESIGNATION, MINIMUM GRADE AS INDICATED IN EVALUATION AGENCY REPORT. 	BOLTSA307, GRADE A, HEXFy = 60ksiWASHERSF844PLATE WASHERSA36NUTS FOR BOLTS & RODSA563, HEAVY HEX, GRADE A TYP, UNO
7. STEEL DECK AND ACCESSORIES SHALL BE GALVANIZED ZINC-COATED IN CONFORMANCE WITH ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO: STANDARD DECK COATING WEIGHTS G60, DECK COATING AT EXTERIOR PERMANENTLY STANDARD DECK COATING SHALL BE G60, DECK COATING AT EXTERIOR PERMANENTLY	GRADE DH IF GALVANIZED GRADE DH W/ F1554 GRADE 105 BOLTS ANCHOR BOLTS & RODS F1554, CLASS 2A, S3
EXPOSED LOCATIONS SHALL BE G90, DECK COATING IN MARINE ENVIRONMENTS SHALL BE G185.8. STEEL DECK SHALL BE CONTINUOUS OVER MULTIPLE SPANS WHERE FRAMING PERMITS. LAYOUT	(HEADED OR THREADED & NUTTED) GRADE 36 TYP, UNO Fy = 36ksi WELDED HEADED STUDS, SHEAR STUDS, A108, GRADES 1010 - 1020 & WELDED THREADED STUDS
STEEL DECK TO PROVIDE TWO SPANS MINIMUM AND THREE SPANS OR GREATER WHERE POSSIBLE. SINGLE SPANS SHALL OCCUR ONLY WHERE CONTINUITY CANNOT BE MADE ONTO ADJACENT SPANS.	DEFORMED BAR ANCHORSA496Fy = 75ksiWELD FILLER METALAWS D1.1Fy = 70ksi
 STEEL DECK SHALL BE INSTALLED WITH A MINIMUM INTERMEDIATE AND END BEARING OF 2" OVER STRUCTURAL SUPPORTS. STEEL DECK SPLICES SHALL BE BUTTED WITH RIBS ALIGNED, UNO. BARE STEEL DECK MAY BE LAP SPLICED WITH A MINIMUM LAP OF 2" PROVIDED THE DECK ENDS ARE DIE SET, UNO. 	 EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE OR MASONRY, WHERE FIELD WELDING IS REQUIRED, WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL, AND DECK-TO-STEEL CONNECTIONS. CONCEALED STEEL DOES NOT REQUIRE PAINT, UNO.
10. STEEL DECK SPLICES SHALL BE CENTERED OVER A COMMON MEMBER.	4. EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UNO. PROVIDE FILL AND VENT HOLES AT ENCLOSED SPACES OF HOLLOW PIECES. SEAL HOLES WATER-TIGHT AFTER GALVANIZING. PROVIDE DRAIN HOLES AS REQUIRED AT SOLID PIECES. HOLE SIZES AND
11. ARC SPOT WELDS SHALL HAVE A MINIMUM 1/2" DIAMETER EFFECTIVE SIZE. ARC SPOT WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE CENTER OF THE WELD.	LOCATIONS SHALL NOT DETRIMENTALLY AFFECT THE PIECES STRUCTURAL CAPACITY AND ARE SUBJECT TO THE STRUCTURAL ENGINEERS REVIEW.
12. ARC SEAM WELDS MAY BE SUBSTITUTED FOR ARC SPOT WELDS. ARC SEAM WELDS SHALL HAVE A MINIMUM 3/8" WIDE BY 1" LONG EFFECTIVE SIZE. ARC SEAM WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE LONGITUDINAL AXIS OR FROM THE CENTER OF THE END RADIUS OF THE WELD.	 5. EXPOSED STRUCTURAL STEEL MEMBERS AND CONNECTIONS VISIBLE TO THE PUBLIC AND BUILDING OCCUPANTS (OTHER THAN MAINTENANCE AREAS) SHALL MEET THE FOLLOWING CRITERIA: A. FABRICATION, HANDLING, AND SHIPPING SHALL EMPLOY SPECIAL CARE TO ENSURE
13. THE MINIMUM CLEAR DISTANCE BETWEEN ADJACENT WELDS AND BETWEEN A WELD AND THE DECK EDGE SHALL BE NO LESS THAN THE VISIBLE WELD DIAMETER.	ACCEPTABLE FINISHED APPEARANCE. B. WELDS SHALL BE GROUND SMOOTH. GROOVE WELDS SHALL BE MADE FLUSH (+ 1/16", -0"). OVERSIZE WELDS AS REQUIRED.
14. FILLET WELDS SHALL HAVE A MINIMUM LEG SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FILLET WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4".	 C. FIELD-WELDING AIDS AND ERECTION AIDS SHALL BE REMOVED AND STEEL SHALL BE REPAIRED AND GROUND SMOOTH. D. SHOP PIECE MARKS AND MILL MARKS SHALL BE LOCATED SUCH THAT THEY ARE FULLY HIDDEN IN THE FINAL STRUCTURE OR ARE MADE WITH SUCH MEDIA TO PERMIT FULL
15. FLARE GROOVE WELDS SHALL HAVE A MINIMUM WELD THROAT SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FLARE GROOVE WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4".	REMOVAL AFTER ERECTION. E. GRIND EDGES OF SHEARED, PUNCHED OR FLAME CUT STEEL IN AREAS WITHIN REACH TO TOUCH BY THE PUBLIC AND BUILDING OCCUPANTS. F. ALIGN AND ORIENT BOLTED CONNECTIONS TO BE UNIFORM AND CONSISTENT.
16. STEEL DECK PANELS AT CANTILEVERED CONDITIONS AND AT PARTIAL WIDTH PANELS SHALL HAVE CONNECTIONS FOR THE ENTIRE LENGTH OF THE DECK PANEL AS FOLLOWS: CONNECTIONS TO EACH STRUCTURAL SUPPORT AT EACH LOW FLUTE AND SIDE SEAM CONNECTIONS AT ENDS AND 12" ON CENTER MAXIMUM.	 PROVIDE CONCRETE / MASONRY COVER AT STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE CAST AGAINST EARTH SHALL HAVE 3" MIN COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MIN COVER.
17. ACCESSORIES SHALL BE FASTENED TO SUPPORTING STEEL DECK AND STRUCTURAL MEMBERS BY CONNECTIONS SPACED AT 12" MAXIMUM ON CENTER AND AT EACH END.	 WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1. AND AWS D1.8 WHERE APPLICABLE.
18. PROVIDE EDGE FORMS, FLASHING, CLOSURE PLATES, AND SUPPLEMENTARY SUPPORTS FOR DECK EDGES AT BUILDING PERIMETER, AT OPENINGS AND AT PENETRATIONS THROUGH DECK.	8. MINIMUM SIZE OF FILLET WELDS: 1/8" FOR MATERIAL 1/8" TO 1/4" THICK, 3/16" FOR MATERIAL OVER 1/4" TO 1/2" THICK, 1/4" FOR MATERIAL OVER 1/2" TO 3/4" THICK, AND 5/16" FOR MATERIAL OVER 3/4" THICK. MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS
19. DO NOT SUSPEND OR ATTACH SUPPORTS FOR NONSTRUCTURAL COMPONENTS FROM BARE STEEL DECK, EXCEPT FOR COMPONENTS WEIGHING LESS THAN 100 LBS OR HANGER WIRE SUSPENDED ACOUSTIC OR SINGLE-LAYER GYPSUM BOARD CEILINGS (MAXIMUM CEILING SYSTEM WEIGHT OF 4 PSF) INCLUDING THEIR INTEGRALLY SUPPORTED LIGHT FIXTURES, TERMINALS AND	MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 1 1/2".
 20. SUPPORTS OR ANCHORS FOR ITEMS NOT PERMITTED TO BE ATTACHED TO STEEL DECK SHALL BE SUPPORTED BY STRUCTURAL FRAMING. PROVIDE ADDITIONAL TRAPEZE HANGERS OR SUPPLEMENTARY FRAMING AS NECESSARY. 	9. GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS, UNO. GROOVE WELDS SHALL BE TERMINATED AT THE END OF JOINTS IN A MANNER THAT WILL ENSURE SOUND WELDS. USE WELD TABS AND BACKING BARS ALIGNED TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION. REMOVE EXTENSIONS UPON COMPLETION & COOLING OF THE WELD. GRIND ENDS OF THE WELD SMOOTH AND FLUSH WITH THE EDGES OF THE ABUTTING PARTS.
	10. WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSED SQUARE OR RECTANGULAR HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIUSED CORNERS , UNO.
	11. BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES, TYP UNO. BOLTS FOR STEEL-TO-CONCRETE/MASONRY CONNECTIONS SHALL BE PLACED IN ANCHOR ROD HOLES, TYP UNO. USE STANDARD AISC PITCH & GAGE FOR BOLTED CONNECTIONS, UNO.

- 12. BOLTS AND RODS SHALL BE CUT-THREAD TYPE WITH FULL DIAMETER BODY STYLE MEETING REQUIREMENTS OF ASME B18.2.1. THE BODY DIAMETER SHALL NOT BE LESS THAN THE MINIMUM MAJOR DIAMETER WHEN THREADS ARE CUT. REDUCED DIAMETER BODY STYLE ROLLED THREAD BOLTS OR RODS ARE NOT PERMITTED.
- 13. BOLT HEADS, NUTS OR "DTI"S OF BOLTED STEEL-TO-STEEL AND STEEL-TO-CONCRETE/ MASONRY CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER IN THE BOLT ASSEMBLY AT THAT SURFACE.



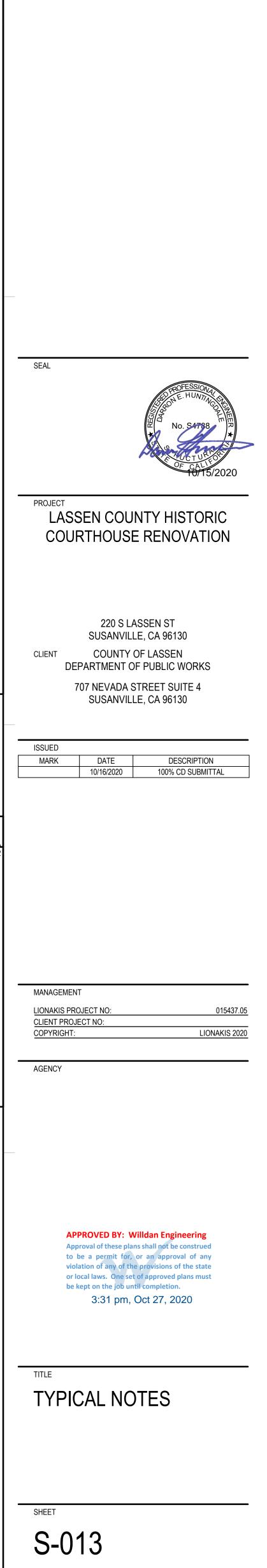
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-	1 2	3	4	5
	ADHESIVE ANCHORS IN CONCRETE		EXPANSION ANCHORS IN CONCRETE	POST INSTALLED ANCHORS
	19080 1. REFERENCES TO "EPOXY" OR "CHEMICAL" ANCHORS EMBEDDED IN CONCRETE SHALL REFER TO THESE NOTES.	5. Q2 1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS REQUIRED.	 EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS. REFER TO EVALUATION AGENCY REPORT FOR EFFECTIVE EMBEDMENTS. 	2 THESE NOTES SHALL APPLY TO THE INSTALLATION, INSPECTION, AND TESTING OF EXPANSION, ADHESIVE, AND SCREW ANCHORS. USE SPECIFIC PRODUCTS WHERE INDICATED. IF A SPECIFIC PRODUCT / MANUFACTURER IS NOT NOTED, SELECT ANCHOR FROM THE PROVIDED TABLES
1/4" 1/2"	 2. ACCEPTABLE ADHESIVE PRODUCTS ARE: "HILTI" HIT-RE 500 V3 (ICC ESR-3814) "HILTI" HIT-HY-200 (ICC ESR-3187) "SIMPSON" SET-XP (ICC ESR-2508) 	"HILTI" KWIK HUS-EZ (KH-EZ) / KWIK HUS-EZ1 (KH-EZ1) INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN) (ICC REPORT ESR 3027)	"HILTI" KWIK BOLT-TZ INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)	BASED ON ANCHOR TYPE, DIAMETER AND BASE MATERIAL. POST-INSTALLED ANCHORS / REINFORCING ARE NOT PERMITTED TO REPLACE CAST-IN ANCHORS/REINFORCING UNLESS SPECIFICALLY NOTED.
₀□	 "SIMPSON" SET-3G (ICC ESR-4057) "SIMPSON" AT-XP (IAPMO ER-263) "DEWALT" PURE 110+ (ICC ESR-3298) "DEWALT" AC200+ GOLD (ICC ER-4027) 	GENERAL CONCRETE & UNDERSIDE OF CONC OVER STEEL DECK TOPSIDE OF CONC O/ STL DECK LOWER FLUTE UPPER FLUTE	(ICC REPORT ESR 1917) GENERAL CONCRETE & UNDERSIDE OF CONC TOPSIDE OF CONC O/ STEEL DECK	 INSTALLATION 1. INSTALL PER REQUIREMENTS OF THE EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS FOR THE SPECIFIC ANCHOR.
	3. THREADED ROD AND REBAR USED W/ ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS OF THE EVALUATION AGENCY REPORT.	ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/4" 3/8" 1/2" 1/2" 3/8" 1/2" 1/4" 3/8" 1/2" 1/2" 3/8" 1/2" 1/2" 3/8" 1/2" 1/2" 1/4" 3/8" 1/2" 1/2" 3/8" 1/2"	ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 3/8" 1/2" 5/8" STD EMBED, Hnom TYP UNO 2 5/16" ** 3 5/8" 4 1/2" 5 5/8" 2 3/8" 3 5/8"	2. INSTALLATION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE A WRITTEN TEST AND
CORDINGLΥ	 EMBEDMENT DEPTHS SHALL BE 8 TIMES THE NOMINAL DIAMETER OF ANCHOR, UNO. CONCRETE SHALL MEET THE SPECIFIED DESIGN STRENGTH PRIOR TO INSTALLATION, AND SHALL HAVE A MINIMUM AGE OF 21 DAYS, UNO. 	THICKNESS, T 3 1/4 3 1/4 4 3/4 7 0 1/4 T = 3 1/4" MIN, C = 1 1/4" MIN MAX INSTALLATION 18 40 45 85 115 18 40 45 TORQUE (LB-FT) 18 40 45 85 115 18 40 45	MIN CONC THICKNESS, T $*4"$ $*6"$ $6"$ $8"$ SEE DIAGRAM BELOW T = 1 1/2" MIN, C = 5/8" MINTORQUE TEST2540601102540	PERFORMANCE TEST IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT. CERTIFICATION PROGRAM SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
SCALE ACC	6. TEST LOADS SHALL BE AS INDICATED IN DRAWINGS. IF NO TEST LOAD IS SPECIFIED, TEST LOA SHALL BE 1000 LBS.		LOAD (LB-FT) 23 40 60 110 23 40 60 * T = 3 1/4" MIN AT TOPSIDE OF CONC O/ STEEL DECK ** STD EMBED = 2 3/8" AT TOPSIDE OF CONC O/ STEEL DECK	3. ANCHOR INSTALLATION SHALL MEET THE MINIMUM EMBEDMENT, EDGE DISTANCE, SPACING, AND BASE MATERIAL THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
jed print -		"SIMPSON" TITEN HD INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN) (ICC REPORT ESR 2713)	"SIMPSON" STRONG-BOLT 2 INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN) (ICC REPORT ESR 3037)	 ANCHOR INSTALLATION & CURE TEMPERATURES SHALL FOLLOW EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. WHEN INSTALLING ANCHORS IN CONCRETE OR MASONRY, DO NOT DAMAGE REINFORCING (DEPART AND LOD PRE/DOOT TENDIONED OT DAMAGE REINFORCING)
S A REDUC		GENERAL CONCRETE & UNDERSIDE OF CONC OVER STEEL DECK TOPSIDE OF CONC O/ STL DECK UNDERSIDE OF CONC OVER STEEL DECK ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/4" 3/8" 1/2" 3/8" 1/2"	GENERAL CONCRETE & UNDERSIDE OF CONC TOPSIDE OF CONC O/ STEEL DECK O/ STEEL DECK ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 3/8" 1/2" 5/8"	(REBAR AND/OR PRE/POST TENSIONED STRANDS). LOCATE ALL REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE ANCHOR.
30"x42", IT I		STD EMBED, Hnom TYP UNO 1 5/8" 2 1/2" 3 1/4" 4" 5 1/2" 1 5/8" 2 1/2" 3 1/2" 1 5/8" 1 7/8" 2" MIN CONC 3 1/4" 5" 6" 8 3/4" SEE DIAGRAM BELOW	STD EMBED, Hnom TYP UNO 1 3/4" 1 7/8" **3 7/8" 3 3/8" 4 1/8" 2" 2 3/4" 3 3/8" MIN CONC 2 4/4" 2 4/4" 5 4/6" 5 4/6" 5 2 2 3/4" 3 3/8"	 INSPECTION PROVIDE SPECIAL INSPECTION AS REQUIRED BY THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY. WHERE EVALUATION AGENCY REPORT PERMITS EITHER PERIODIC OR CONTINUOUS INSPECTION, USE PERIODIC.
EET IS NOT		Indexness, T $I = 1 1/2"$ MIN IN LOWER FLUTE $T = 3 1/4"$ MIN IN UPPER FLUTE $C = 3/4"$ MINMAX INSTALLATION245065400450652465	THICKNESS, T $3 \frac{1}{4}$ $3 \frac{1}{4}$ $3 \frac{1}{4}$ $6 \frac{5}{5} \frac{1}{2}$ $6 \frac{3}{4}$ $T = 1 \frac{1}{2}$ MIN, C = 1/2" MIN, TORQUE TEST LOAD (LB-FT) 4 30 60 90 150 30 60 90 * T = 3 \frac{1}{4} MIN AT TOPSIDE OF CONC O/ STEEL DECK	 ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE CONTINUOUSLY INSPECTED BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE ENFORCEMENT AGENCY.
IF THIS SH		TORQUE (LB-FT) 24 50 65 100 130 24 50 65 24 50 65 TORQUE TEST LOAD (LB-FT) 12 25 33 50 75 12 25 33 12 25 33 * T= 3 1/4" AT TOPSIDE OF CONC O/ STEEL DECK 50 50 50 50 50 65 50 65	<pre>** STD EMBED = 2 3/4" AT TOPSIDE OF CONC O/ STEEL DECK</pre>	TESTING 1. TEST ANCHORS IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY REQUIREMENTS FOR THE SPECIFIC ANCHOR AND IN ACCORDANCE
		"DEWALT" SCREWBOLT+ INSTALLED IN NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)	NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN) (ICC REPORT ESR 2502) GENERAL CONCRETE &	 WITH THE FREQUENCIES AND TEST METHODS LISTED BELOW. 2. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY AND
		(ICC REPORT ESR 3889) GENERAL CONCRETE & UNDERSIDE OF CONC OVER STEEL DECK TOPSIDE OF CONC O/ STL DECK LOWER FLUTE UPPER FLUTE	TOPSIDE OF CONC O/ STEEL DECK O/ STEEL DECK ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 3/8" 1/2" 5/8" 3/4" STD EMBED, ***2 2/8" 4 7/9" 5 2/4" 2 2/8" 2 1/2" 2 5/8" 4 1/2"	 STRUCTURAL ENGINEER. 3. REACTION LOADS FROM TEST FIXTURE(S) MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED BY THE FIXTURE(S) FROM
		ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 3/8" 1/2" 5/8" 3/8" 1/2" STD EMBED, Hnom TYP UNO 1 5/8" 2" 3" 4" 4 1/4" 2" 3" 4" 2" 2 1/2"	Hnom TYP UNO* 4"* 5 $3/4$ "6 $1/2$ "10"SEE DIAGRAM BELOWMIN CONC THICKNESS, T* 4"* 5 $3/4$ "6 $1/2$ "10"T = 3 $1/4$ " MIN, C = $3/4$ " MINTORQUE TEST204060110254060110	 WITHDRAWING. 4. TEST METHOD SHALL BE AS NOTED FOR SPECIFIC ANCHOR TYPES AND THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
		MIN CONC THICKNESS, T3 1/4"*3 1/2"*5 1/4"6"6"SEE DIAGRAM BELOW T = 2 1/2" MIN IN LOWER FLUTE T = 3 1/4" MIN IN UPPER FLUTE C = $3/4$ " MIN	LOAD (LB-FT) 20 40 60 110 23 40 60 110 * T = 2 1/2" MIN AT TOPSIDE OF CONC O/ STEEL DECK ** STD EMBED = 2 1/2" AT TOPSIDE OF CONC O/ STEEL DECK	 HYDRAULIC RAM METHOD (TENSION TESTING): THE ANCHOR SHALL MAINTAIN THE TEST LOAD FOR 15 SECONDS AND SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES
		MAX INSTALLATION TORQUE (LB-FT) 19 25 45 60 70 25 45 60 25 45 TORQUE TEST LOAD (LB-FT) 9 12 25 30 35 12 25 30 12 25		 LOOSE. TORQUE WRENCH METHOD (TORQUE TESTING): THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS: ONE-HALF (1/2) TURN OF THE NUT, TYP UNO.
		* T= 2 1/2" AT TOPSIDE OF CONC O/ STEEL DECK		 ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8" SLEEVE ANCHOR ONLY. ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD FOR SCREW ANCHORS.
С			DECK * UNLESS LARGER OFFSET PERMITTED BY EVALUATION AGENCY	 TESTING FREQUENCIES SHALL BE AS INDICATED IN THE TABLE BELOW. WHEN MULTIPLE ANCHORS ARE USED IN A SINGLE GROUP OR CONNECTION, THE PERCENT OF ANCHORS TESTED AT EACH LOCATION SHALL BE AS INDICATED BELOW. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY
		S MIN MIN MIN MIN MIN MIN MIN MIN	GENERAL CONCTOPSIDE OF CONCUNDERSIDE OF CONCO/ STEEL DECKO/ STEEL DECK	6. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 10 CONSECUTIVE ANCHORS PASS, THEN THE INITIAL TESTING FREQUENCY SHALL BE RESUMED.
		* UNLESS LARGER OFFSET PERMITTED BY EVALUATION AGENCY REPORT		TESTING FREQUENCY APPLICATION PERCENT OF ALL ANCHORS
		GENERAL CONC TOPSIDE OF CONC UNDERSIDE OF CONC O/ STEEL DECK O/ STEEL DECK		SILL PLATE BOLTING AND REBAR AT SLAB ON GRADE, UNO 5 PERCENT STRUCTURAL EXCLUDING SILL PLATE BOLTING 20 PERCENT
				BOLTING 20 PERCENT NON-STRUCTURAL INCLUDING EQUIPMENT ANCHORAGE 10 PERCENT
	ADHESIVE ANCHORS IN MASONRY	Q2	EXPANSION ANCHORS IN MASONRY S- 056000 N006/ 170127. Q2	POWER ACTUATED FASTENERS 2 S- 056000 N001A 190225. Q2
	 REFERENCES TO "EPOXY" OR "CHEMICAL" ANCHORS EMBEDDED IN MASONRY SHALL REFER TO THESE NOTES. THREADED ROD AND REBAR_USED W/ ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS 	1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. "HILTI" HUS-EZ (KH-EZ) INSTALLED IN	1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. "HILTI" KWIK BOLT-3 INSTALLED IN	 POWER ACTUATED FASTENERS SHALL BE "HILTI" X-U (ICC ESR 2269), "SIMPSON" PDPA (ICC ESR 2138), OR "DEWALT" POWER DRIVEN FASTENERS (ICC ESR 2024), TYP UNO. INSTALLATION OF FASTENERS SHALL BE IN ACCORDANCE WITH THE EVALUATION AGENCY DEPORT. INSTALL FASTENERS SHALL BE IN ACCORDANCE WITH THE EVALUATION AGENCY
В	OF THE EVALUATION AGENCY REPORT. 3. WHEN REBAR IS EMBEDDED USING AN ADHESIVE, ANCHOR DIA SHALL BE THE NOMINAL BAR DIAMETER.	GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN) (ICC REPORT ESR 3056) IN FACE OF WALL (E = 1 1/4") IN TOP OF WALL	GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI_MIN) (ICC REPORT ESR 1385) IN FACE OF WALL (E = 1 3/8") IN TOP OF WALL	 REPORT. INSTALL FASTENERS WITH SUFFICIENT EDGE DISTANCE AND SPACING TO ACHIEVE FULL CAPACITY, UNO. 3. FASTENERS TO CONCRETE OR MASONRY SHALL HAVE 1" MIN EMBEDMENT (1 1/4" MIN FOR "SIMPSON" PDPA IN MASONRY), TYP UNO.
	4. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ATR & REBAR WITH "HILTI" HIT HY-270 INSTALLED IN	ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" STD EMBED 1 5/9" 2 1/4" 2 1/4" 4" 4 1/4" 5"	ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" STD EMBED 2" 2.1/2" 3.1/2" 4" 4.2/8" 2" 3.1/2"	 4. FASTENERS TO STRUCTURAL STEEL SHALL HAVE MIN EMBEDMENT TO STEEL PER MANUFACTURER, TYP UNO.
	GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN) (ICC REPORT ESR 4143)	TYP UNO 1 5/6 2 1/4 3 1/4 4 4 1/4 3 "SIMPSON" TITEN HD INSTALLED IN	TYP UNO 2 2 1/2 3 1/2 4 4 3/6 3 3 3 1/2 TORQUE TEST LOAD (LB-FT) 4 15 25 65 120 25 65	 5. FASTENERS MAY NOT BE USED FOR TENSION LOADS EXCEPT FOR THE FOLLOW CONDITIONS: VERTICAL SUSPENSION WIRES FOR ACOUSTICAL TILE OR LAY-IN CEILINGS VERTICAL SUPPORTS OF MECH DUCTS, CONDUITS, ETC WHERE THE SERVICE LOAD ON
	INSTALLED IN VERTICAL MORTAR JOINTS) (INSTALL IN GROUT ONLY) ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" STD EMBED, Hnom 3 3/8" 4 1/2" 5 5/8" 6 3/4" 4 1/2" 5 5/8"	GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN) (ICC REPORT ESR 1056)	"SIMPSON" STRONG-BOLT 2 INSTALLED IN GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN) (IAPMO REPORT ER 240)	 EACH ANCHOR DOES NOT EXCEED 90 LBS FOR FASTENERS IN CONCRETE OR 250 LBS FOR FASTENERS IN STRUCTURAL STEEL. FASTENERS ARE NOT PERMITTED AT SEISMIC BRACING ATTACHMENTS.
	$(Hef = Hnom)$ $3 3/8^{\circ}$ $4 1/2^{\circ}$ $5 5/8^{\circ}$ $6 3/4^{\circ}$ $4 1/2^{\circ}$ $5 5/8^{\circ}$ TENSION TEST LOAD (LBS)248040705680762032503180	IN FACE OF WALL (E = 1 1/4") IN TOP OF WALL ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" STD EMBED 2 3/4" 3 1/2" 4 1/2" 5 1/2" 4 1/2" 4 1/2"	IN FACE OF WALL (E = 1 1/4") IN TOP OF WALL	6. WHEN INSTALLING FASTENERS IN PRE/POST-TENSIONED CONCRETE DO NOT DAMAGE STRANDS. LOCATE STRANDS AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING FASTENERS. MAINTAIN A MINIMUM CLEARANCE OF 2" BETWEEN THE STRANDS AND THE FASTENERS.
	ATR & REBAR WITH "SIMPSON" SET-XP INSTALLED IN GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN) (IAPMO REPORT ER 265)	STD EMBED 2 3/4" 3 1/2" 4 1/2" 4 1/2" 4 1/2" TYP UNO "DEWALT" SCREWBOLT+ INSTALLED IN	ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" STD EMBED TYP UNO 1 3/4" 2 5/8" 3 1/2" 4 3/8" 5 1/4" 3 1/2" 4 3/8" TORQUE TEST 4 20 35 55 100 35 55	
	IN FACE OF WALL (E = 1 1/2") IN TOP OF WALL (INSTALL IN GROUT ONLY)	GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN) (ICC REPORT ESR 4042)	LOAD (LB-FT) 4 20 35 55 100 35 55 "DEWALT" POWER-STUD+ SD1 INSTALLED IN	
raun.RVT	ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" 7/8" STD EMBED, Hnom (Hef = Hnom) 3 3/8" 4 1/2" 5 5/8" 6 3/4" 4 1/2" 5 5/8" 7 7/8" TENSION TEST LOAD (LBS) 2980 3650 3790 3790 2970 3400 3220	IN FACE OF WALL (E = 1 1/4") IN TOP OF WALL ANCHOR DIA 1/4" 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" 3/4" STD EMBED 1.5/8" 2" 2.1/2" 2.1/4" 4" 4.1/4" 5" 6.1/4"	GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI_MIN) (ICC REPORT ESR 2966)	
'RAL_Patty.B	ATR & REBAR WITH "DEWALT" AC100+ GOLD INSTALLED IN		IN FACE OF WALL (E = 1 3/8") IN TOP OF WALL ANCHOR DIA 3/8" 1/2" 5/8" 3/8" 1/2" 5/8" STD EMBED 2 3/8" 2 1/2" 3 3/8" 2 3/8" 2 1/2" 3 3/8"	
R_R20_CENT	GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN) (ICC REPORT ESR 3200)	CONCRETE MASONRY H UNIT (GROUTED)	STD EMBED TYP UNO2 3/8"2 1/2"3 3/8"2 3/8"2 1/2"3 3/8"TORQUE TEST LOAD (LB-FT)204050204050	
M_A-MASTE	ANCHOR DIA 3/8" 1/2" 5/8" 3/4" 1/2" 5/8" 3/4" STD EMBED, Hnom 3" 4" 5" 6" 4" 5" 6"		CONCRETE MASONRY	
)15437.05_BI	(Hef = Hnom) 0 4 0 4 0 0 TENSION TEST LOAD (LBS) 1230 1920 2190 2320 1040 1490 2520	SHADED AREAS		
vitLocalFiles\(CONCRETE MASONRY UNIT (GROUTED)	HORIZONTAL MORTAR JOINT ANCHOR PLACEMENT NOTES:	SHADED AREAS INDICATE	
D:_Re		1. ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN.	HORIZONTAL MORTAR JOINT E, TYP VERT MORTAR ANCHOR PLACEMENT JOINT	
	SHADED AREAS		ANCHOR PLACEMENT NOTES: 1. ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN.	
M	HORIZONTAL / VERT MORTAR ANCHOR PLACEMENT MORTAR JOINT JOINT ANCHOR PLACEMENT NOTES:		 ANCHOR LOCATIONS ARE LIMITED TO ONE PER MASONRY CELL WITH A MINIMUM SPACING OF 8" ON CENTER. 	
2020 4:02:42	 ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN. ANCHOR LOCATIONS ARE LIMITED TO ONE PER MASONRY CELL WITH A MINIMUM SPACING OF 8" ON CENTER. 			
10/15/.				

IN	MAS	SONF	RY	ç	S- 056000 N008A	SCREW	ANCH	IORS	S IN M	IASO	NRY					EXPAN	SIC
L" AN	CHORS EN	MBEDDED	IN MASON	IRY SHALL	181001. Q2 . REFER	1. EMBEDMENT	SHALL BE	AS INDICA	TED IN THE	E TABLE B	ELOW, TYF	P UNO.			Q1	1. EMBEDME	INT SH
						"HILTI" HUS-EZ (KH-EZ) INSTALLED IN GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN) (ICC REPORT ESR 3056)										GRC	
DHES	IVE, ANG	IOR DIA S	HALL BE T		NAL BAR			IN FACE C)F WALL (E	= 1 1/4")	,	IN .	TOP OF W	ΆΠ			
THE	TABLE BEI	LOW, TYP	UNO.			ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"		1/2"	5/8"		ANCHOR DIA	+
TE N		Y (f'm =	STALLEI 1500 PS			STD EMBED TYP UNO	1 5/8"	1 5/8"	2 1/4"	3 1/4"	4"		4 1/4"	5"		STD EMBED TYP UNO TORQUE TEST LOAD (LB-FT)	T
	NCHORS M			TOP OF W L IN GROL		G	י: ROUT-FI		N" TITEN ASONRY				MIN)				
/2" 5/8" 3/4" 1/2" 5/8"									C REPOR				,				GRC
1/2"	5 5/8"	6 3/4"	4 1/2"	5 5/8"				IN FACE C)F WALL (E	= 1 1/4")		IN [·]	TOP OF W	ALL			
070	5680	7620	3250	3180		ANCHOR DIA		3/8"	1/2"	5/8"	3/4"		1/2"	5/8"			
						STD EMBED TYP UNO		2 3/4"	3 1/2"	4 1/2"	5 1/2"		4 1/2"	4 1/2"		ANCHOR DIA	
TE N		Y (f'm =	STALLE 1500 PS						SCREWI							STD EMBED TYP UNO TORQUE TEST LOAD (LB-FT)	т
ALL (E	= 1 1/2")			TOP OF W. L IN GROU			ROUT-FI		C REPOR			JUU F 31	iviiin)				
/2"	5/8"	3/4"	1/2"	5/8"	7/8"			IN FACE C)F WALL (E	= 1 1/4")		IN [·]	TOP OF W	'ALL			GRO
1/2"	5 5/8"	6 3/4"	4 1/2"	5 5/8"	7 7/8"	ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"			Onc
650	3790	3790	2970	3400	3220	STD EMBED TYP UNO	1 5/8"	2"	2 1/2"	3 1/4"	4"	4 1/4"	5"	6 1/4"			
TE N		Y (f'm =	INSTAL 1500 PS					· \				ONCRETE NIT (GROU		Ê, TYP		ANCHOR DIA STD EMBED TYP UNO TORQUE TEST LOAD (LB-FT)	
``	= 1 1/2")	1	(INSTAL	TOP OF W L IN GROU	JT ONLY)						-						
/2"	5/8"	3/4"	1/2"	5/8"	3/4"				$\overline{\mathbb{A}}$						-		
4" 920	5" 2190	6" 2320	4" 1040	5" 1490	6" 2520				N		IN			TYP			
\frown			NCRETE I IIT (GROU		E, TYP	HORIZONTAL		≠ √ √Е, Т		VERT MO JOINT	LC	NACCEPTA OCATIONS NCHOR PL	FOR	Ш			
						ANCHOR PLACEN 1. ANCHORS MU AS SHOWN.			MINIMUM E	DISTANCE	E, FROM /	ANY VERTI	CAL MOR	TAR JOINT		HORIZONTAL MORTAR JOIN	
			IADED ARE DICATE IACCEPTA ICATIONS	BLE	E, TYP											ANCHOR PLAC 1. ANCHORS AS SHOWN	
	/ERT MOR OINT		ICHOR PLA													2. ANCHOR L 8" ON CEN	
JM DI	STANCE, E	E, FROM A	NY VERTIC	CAL MORT	AR JOINT										_		



LIONÄKIS

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CONSULTANT

5"		WIND				WS- 000000 N000A	
"		 WIND REQUIREMENTS (SECTION 1704.3.3) DESCRIPTION OF MAIN WIND-FORCE-RESISTI COMPONENTS SUBJECT TO SPECIAL INSPEC A. (E) BUILDING RETROFIT- BUILDING FRAME 	TIONS	S IN /	ACCORDANCE WITH S	SECTION 1705.11:	REQUIRED VERIFICA
0 1/4" 1/2"		SHEAR WALL B. STAIR AND ELEVATOR - BEARING WALL S SHEAR WALLS 2. THE EXTENT OF THE MAIN WIND-FORCE-RES COMPONENTS IS DEFINED IN MORE DETAIL IN	ISTING	G SY	STEM AND WIND RES	ISTING	 VERIFY MATERIALS BELOW FOOTIL ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY. VERIFY EXCAVATIONS ARE EXTEN PROPER DEPTH AND HAVE REACH
NGLY		SPECIAL INSPECTION FO VERIFICATION AND INSPECTION 1. STRUCTURAL WOOD	DR W		D REQUIREMENT REFERENCED STANDARD	S CBC REFERENCE	 PROPER MATERIAL. 3. PERFORM CLASSIFICATION AND TH OF COMPACTED FILL MATERIALS. 4. VERIFY USE OF PROPER MATERIAL DENSITIES AND LIFT THICKNESSES
A REDUCED PRINT - SCALE ACCORDINGLY		 INSPECT FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WIND-FORCE- RESISTING SYSTEM. INSPECT NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WIND-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, COLLECTORS (DRAG STRUTS), BRACES AND HOLD-DOWNS. 	×	 x		1705.11.1	DURING PLACEMENT AND COMPAC OF COMPACTED FILL. 5. PRIOR TO PLACEMENT OF COMPAC FILL, OBSERVE SUBGRADE AND VE THAT SITE HAS BEEN PREPARED PROPERLY.
F THIS SHEET IS NOT 30"x42", IT IS A REDI		 2. COLD-FORMED STEEL FRAMING DELDING OF ELEMENTS OF THE MAIN WIND-FORCE-RESISTING SYSTEM. INSPECTION OF SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WIND-FORCE-RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS. 				1705.11.2	
IF THIS		 3. WIND-RESISTING COMPONENTS ROOF CLADDING. WALL CLADDING. 				1705.11.3	
		SEISMIC				WS- 000000 N000A	
		 SEISMIC REQUIREMENTS (SECTION 1704.3.2) DESCRIPTION OF SEISMIC-FORCE-RESISTING SUBJECT TO SPECIAL INSPECTIONS AS PER S A. (E) BUILDING RETROFIT- BUILDING FRAM SHEAR WALL STAIR AND ELEVATOR - BEARING WALL S SHEAR WALLS THE EXTENT OF THE SEISMIC-FORCE-RESIST CONSTRUCTION DOCUMENTS. 	SECTI E SYS SYSTE	ON 1 STEN M - S	1705.12 AND 1705.13: 1 - SPECIAL REINFORC SPECIAL REINFORCEI	180625. Q2 ISMIC SYSTEMS CED CONCRETE D MASONRY	
			DR S		MIC RESISTANC	E CBC	
С		VERIFICATION AND INSPECTION 1. SPECIAL INSPECTION FOR WELDING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341.	x		STANDARD	REFERENCE 1705.12.1	
		 2. STRUCTURAL WOOD INSPECT FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE- RESISTING SYSTEM. INSPECT NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, COLLECTORS (DRAG STRUTS), BRACES, SHEAR PANELS AND HOLD-DOWNS. 	X			1705.12.2	
		3. COLD-FORMED STEEL LIGHT-FRAME CONSTI WELDING OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM	- 1				
		FORCE-RESISTING SYSTEM. INSPECTION OF SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	1			1705.12.3	
		 4. STORAGE RACKS AND ACCESS FLOORS ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT AND ACCESS FLOORS. 		x		1705.12.7	
		 ACCESS FLOORS. 5. ARCHITECTURAL COMPONENTS INSPECT ERECTION AND FASTENING OF EXTERIOR CLADDING WEIGHING MORE THAN 5 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE. 		×			
		 INSPECT ERECTION AND FASTENING OF VENEER WEIGHING MORE THAN 5 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE. INSPECT ERECTION AND FASTENING OF ALL EXTERIOR NON-BEARING WALLS 				1705.12.5	
В		 HIGHER THAN 30 FEET ABOVE GRADE OF WALKING SURFACE. INSPECT ERECTION AND FASTENING OF ALL INTERIOR NON-BEARING WALLS WEIGHING MORE THAN 15 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OF WALKING SURFACE. 					
		 MECHANICAL AND ELECTRICAL COMPONENT INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STAND-BY POWER SYSTEMS. INSPECT ANCHORAGE OF NON- EMERGENCY ELECTRICAL EQUIPMENT. INSPECT INSTALLATION OF PIPING SYSTEMS AND ASSOCIATED MECHANICA UNITS CARRYING FLAMMABLE, 		x		1705.12.6	
		 COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS. INSPECT INSTALLATION OF HVAC DUCTWORK THAT CONTAINS HAZARDOUS MATERIALS. INSPECT INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE REQUIRED BY SECTION 1707.7. 		x x			
M_A-MASTER_R20_CENTRAL_Patty.Braun.RVT		 7. URIFY THAT THE EQUIPMENT LABEL AN ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE WHEN MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE SEISMICALLY QUALIFIED. 				1705.12.4	
20_CENTR		8. SEISMIC ISOLATION SYSTEM: INSPECTION OF ISOLATION SYSTEM PER ASCE 7 - SECTION 17.8.	N	x		1705.12.8	
B		9. ■ OBTAIN MILL CERTIFICATES FOR REINFORCING STEEL, VERIFY COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS, AND VERIFY STEEL SUPPLIED CORRESPONDS TO CERTIFICATE.	3			1704.5	
		10. DISTRUCTURAL STEEL: INVOKE THE QAP QUALITY ASSURANCE REQUIREMENTS IN AISC 341.				1705.13.1	
D:_RevitLocalFiles\015437.05_ ≫		 11. OBTAIN CERTIFICATE THAT EQUIPMENT HAS BEEN SEISMICALLY QUALIFIED. 12. OBTAIN SYSTEM TESTS AS REQUIRED BY ADDE 7 OF OTION 47.0 	 (1704.5	
D:_Rei	l l	ASCE 7 SECTION 17.8.			1]

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WS- 000000 N000/										
180625. C										
ICATION AND INSPECTION OF SOIL										
CTION	С	Ρ	REFERENCED STANDARD	CBC REFERENCE						
OOTINGS THE		x								
XTENDED TO EACHED		×								
ND TESTING ALS.		х		TABLE 1705.6						
ERIALS, ESSES MPACTION	x									
OMPACTED ND VERIFY RED		х								

CONCRETE					WS- 000000	N000A STEEL
INSPECTION O	FC	ON	CRETE		1806	625. Q2
VERIFICATION AND INSPECTION	С		REFEREN		CBC REFERENCE	VERIFICATION A
1. ■ INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS		x	ACI 318-14, 0 25.2, 25.	CH 20,	1908.4	1. MATERIAL VERIFICA
AND PLACEMENT. 2. INSPECTION OF REINFORCING STEEL			26.6.6.1-26 AWS D1	5.6.3		 IDENTIFICATION TO ASTM STANK APPROVED COL
WELDING IN ACCORDANCE WITH TABLE 1704.3 ITEM 5B. 3. INSPECTION OF BOLTS TO BE		x	ACI 318 -14 :			■ INSPECT FABRI
INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE		x	ACI 318-14 ⁻	17.8.2		2. INSPECTION OF HIG
						SNUG-TIGHT JC PRETENSIONEE
4. ■ INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	x		ACI 318- 17.8.2.4, 17		4004.4.4004.0	JOINTS USING T MATCHMARKIN DIRECT TENSIO
 5. VERIFYING USE OF REQUIRED DESIGN MIX. 6. AT TIME FRESH CONCRETE IS SAMPLED 		X	ACI 318-14 26.4.3, 26.		1904.1, 1904.2, 1908.2, 1908.3	
TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND	x		ASTM C 1 ASTM C		1908.10	JOINTS USING T MATCHMARKIN WRENCH METH
DETERMINE THE TEMPERATURE OF THE CONCRETE.			ACI 318-14 26.12	26.4,		3. MATERIAL VERIFICA
 INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. 	x		ACI 318-14	26.5	1908.6, 1908.7, 1908.8	□ FOR OTHER ST
8. ■ INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND		x	ACI 318-		1908.9	MARKINGS TO (STANDARDS SF CONSTRUCTION
TECHNIQUES. 9. INSPECTION OF PRESTRESSED CONCRETE:			26.5.3-26.	5.5		 MANUFACTURE REPORTS.
 APPLICATION OF PRESTRESSING FORCES GROUTING OF BONDED PRESTRESSING 			ACI 318-14 3			4. MATERIAL VERIFICA ■ IDENTIFICATION
TENDONS IN THE SEISMIC FORCE- RESISTING SYSTEM.	X		ACI 318-14 :	26.10		TO AWS SPECIF APPROVED COI
10. □ ERECTION OF PRECAST CONCRETE MEMBERS. 11 □ VERIFICATION OF IN-SITU CONCRETE		X	ACI 318-14	26.8		MANUFACTURE COMPLIANCE R
STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND		x	ACI 318-14 2	6.11.2		5. INSPECTION OF WE A. STRUCTURAL S
FORMS FROM BEAMS AND STRUCTURAL SLABS.						COMPLETE AND PENETRATION
12. ■ INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		x	ACI 318- 26.11.1.2			 MULTIPASS FILI SINGLE-PASS F
			20.11.1.2	(5)		■ PLUG AND SLO
MASONRY					WS- 000000	
INSPECTION OF LE	VE	L 1	MASONRY		1806	625. Q2 B. REINFORCING \$ ■ VERIFICATION (
			CBC	TMS 4	102/ TMS 402	
VERIFICATION AND INSPECTION	C	P	SECTION	ACI 5 ASC		FLEXURAL AND
1. ■ COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE		x	1705.4		ART. 1.5	FRAMES, AND E SPECIAL STRUC CONCRETE ANI
APPROVED SUBMITTALS SHALL BE VERIFIED.						SHEAR REINFO OTHER REINFO
2. ■ VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.		x			ART. 1.4B	6. INSPECTION OF ST
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF	x				ART. 1.5B.1.B.3	DETAILS SUCH STIFFENING. MEMBER LOCA
CONSOLIDATING GROUT. 4. AS MASONRY CONSTRUCTION BEGINS, THE FO COMPLIANCE:			 NG SHALL BE \	 /ERIFIED		APPLICATION O CONNECTION.
 PROPORTIONS OF SITE-PREPARED MORTAR. 		x			ART 2.1, 2.6A	
 CONSTRUCTION OF MORTAR JOINTS. GRADE AND SIZE OF PRESTRESSING 		Х			ART 3.3B ART. 2.4B,	
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. LOCATION OF REINFORCEMENT,		X		 SEC 6	2.4H	
CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	X			6.2.1, 6 6.2.	7 3.0A	VERIFICATION
PRESTRESSING TECHNIQUE.5. PRIOR TO GROUTING THE FOLLOWING SHALL	 BE \	X /ERI	 FIED TO ENSU	RE COM	ART 3.6B	1. UWELDED STUD
■ GROUT SPACE.		X			ART 3.2D, 3.2F	2. D WELDING OF CO FRAMING MEM
 GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND 		x		SEC 6	6.1 ART 2.4, 3.4	4 3. ■ WELDING OF S SYSTEMS.
ANCHORAGES. PLACEMENT OF REINFORCEMENT AND				SEC 6	1	
CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES.		х		6.2.1, 6 6.2.	.2.6, ART 3.2E,	
 PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. 		x			ART. 2.6B, 2.4G.1.b	
CONSTRUCTION OF MORTAR JOINTS.		X			ART 3.3B	
 6. DURING CONSTRUCTION THE INSPECTION PRO SIZE AND LOCATION OF STRUCTURAL ELEMENTS. 	JGR	АМ : Х	SHALL VERIFY		ART 3.3F	5. SEISMIC RESISTAN
 TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF 				050	<u> </u>	THEIR ANCHOR 6. WIND RESISTANCE
ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.		X		SEC 1.2.2 1.16.	(e)	ROOF CLADDIN CONNECTIONS
 WELDING OF REINFORCING BARS. 	X			SEC 8.1.6.7	7.2,	WALL CONNEC FLOOR DIAPHR
PREPARATION, CONSTRUCTION AND				9.3.3.4 11.3.3.4		ROOF AND FLO INCLUDING COL AND BOUNDAR
PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40		x			ART. 1.8C, 1.8D	, UERTICAL WINE SYSTEMS, INCL
DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F).						MOMENT FRAM
PRESTRESSING FORCE. PLACEMENT OF GROUT AND	X				ART 3.6B ART 3.5,	CONNECTIONS
PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	X				3.6C	TO MEET THE IN REQUIREMENT
7. OBSERVE PREPARATION OF GROUT					ART 1.4B.2.a.3,	-
SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.		X			1.4B.2.a.3, 1.4B.2.b.3 1.4B.2.c.3 1.4B.3, 1.4B	
8. REQUIREMENTS FOR RISK CATEGORY IV	ı	I	I	ı 1	נ.ט י ין 1.48	
 VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR AND GROUT AS 		x	1705.4		ART. 1.5	
DELIVERED TO THE SITE. PROPORTIONS OF SITE-PREPARED					ART 2.1,	
GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS	X	 X			2.6B, 2.6C, 2.4G.1.b ART 3.3B	
CONSTRUCTION OF MORTAR JOINTS.						-
□ GROUT SPACE PRIOR TO GROUTING	X				ART 3.2D, 3.2F]
 PLACEMENT OF GROUT AND PLACEMENT OF PRESTRESSING FOR BONDED TENDONS 	X				ART 3.5, 3.6C	
BONDED TENDONS						

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			DEEEDENCED	СВС
ICATION AND INSPECTION			STANDARD	REFERENCE
NTIFICATION MARKING TO CONFORM ASTM STANDARDS SPECIFIED IN THE PROVED CONSTRUCTION DOCUMENTS.		X	AISC 360: A3.3 AND APPLICABLE ASTM	1705.2.1
SPECT FABRICATOR'S FABRICATION D QUALITY CONTROL PROCEDURES.		x	AISC 360: N5	
TION OF HIGH-STRENGTH BOLTING:		x		
RETENSIONED AND SLIP-CRITICAL DINTS USING TURN-OF-NUT WITH ATCHMARKING, TWIST-OFF BOLT OR RECT TENSION INDICATOR METHODS F INSTALLATION. RETENSIONED AND SLIP-CRITICAL			-	1705.2.1
DINTS USING TURN-OF-NUT WITHOUT ATCHMARKING OR CALIBRATED RENCH METHODS OF INSTALLATION.		x		
RIAL VERIFICATION OF STRUCTURAL STE	. – –			L DECK.
OR STRUCTURAL STEEL, IDENTIFICATION ARKINGS TO CONFORM TO AISC 360.		x	AISC 360: A3.1	
OR OTHER STEEL, IDENTIFICATION ARKINGS TO CONFORM TO ASTM FANDARDS SPECIFIED IN THE APPROVED ONSTRUCTION DOCUMENTS.		x	APPLICABLE ASTM MATERIAL STANDARDS	1705.2.2
ANUFACTURER'S CERTIFIED TEST EPORTS.				
RIAL VERIFICATION OF WELD FILLER MAT	ברו. 		AISC 360: A3.5 AND	
O AWS SPECIFICATION IN THE PPROVED CONSTRUCTION DOCUMENTS.			APPLICABLE AWS A5 DOCUMENTS	
ANUFACTURER'S CERTIFICATE OF OMPLIANCE REQUIRED. ECTION OF WELDING:		x		
TRUCTURAL STEEL AND COLD-FORMED S	TEE	EL D	ECK:	
OMPLETE AND PARTIAL JOINT ENETRATION GROOVE WELDS.	x			
IULTIPASS FILLET WELDS. INGLE-PASS FILLET WELDS > 5/16"	X X	-	AWS D1.1	
LUG AND SLOT WELDS.	х		AWS D1.8	
INGLE-PASS FILLET WELDS <= 5/16" LOOR AND ROOF DECK WELDS. EINFORCING STEEL		X X		
ERIFICATION OF WELDABILITY OF EINFORCING STEEL OTHER THAN STM A 706		x		
EINFORCING STEEL RESISTING			-	
LEXURAL AND AXIAL FORCES IN ITERMEDIATE AND SPECIAL MOMENT RAMES, AND BOUNDARY ELEMENTS OF PECIAL STRUCTURAL WALLS OF	x		AWS D1.4 AND ACI 318-14:26.6.4.1. 18.2.5.25.5.7.4	1705.3.1
ONCRETE AND SHEAR REINFORCEMENT. HEAR REINFORCEMENT.	x		-	
THER REINFORCING STEEL.		X		
ECTION OF STEEL FRAME JOINT DETAILS F ETAILS SUCH AS BRACING AND	-OR			
TIFFENING. IEMBER LOCATIONS.			AISC 360: 16.2	1705.2.1
PPLICATION OF JOINT DETAILS AT EACH ONNECTION.		x		
DING				
				WS- 000000 N00 180625.
				CBC
FICATION AND INSPECTION	С	_	STANDARD	REFERENCE
TRUCTURAL DIAPHRAGMS. /ELDING OF COLD-FORMED STEEL			AWS D1.4	
RAMING MEMBERS. /ELDING OF STAIRS AND RAILING YSTEMS.			-	
ELLANEOUS				WS- 000000 N00
MISCELLA	NE	OL	JS	
FICATION AND INSPECTION	С	Ρ	REFERENCED STANDARD	CBC REFERENCE
USPENDED CEILING SYSTEMS AND HEIR ANCHORAGE.				1705.13.2
OOF CLADDING AND ROOF FRAMING ONNECTIONS.				
ALL CONNECTIONS TO ROOF AND				<u> </u>
OOF AND FLOOR DIAPHRAGM SYSTEMS,		+		
NCLUDING COLLECTORS, DRAG STRUTS ND BOUNDARY ELEMENTS.				
ERTICAL WIND-FORCE-RESISTING YSTEMS, INCLUDING BRACED FRAMES, IOMENT FRAMES, AND SHEAR WALLS.				
/IND-FORCE-RESISTING SYSTEM ONNECTIONS TO THE FOUNDATION.				
ABRICATION AND INSTALLATION OF YSTEMS OR COMPONENTS REQUIRED O MEET THE IMPACT RESISTANCE EQUIREMENTS OF SECTION 1609.1.2.				



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TITLE STATEMENT OF SPECIAL INSPECTIONS

3:31 pm, Oct 27, 2020

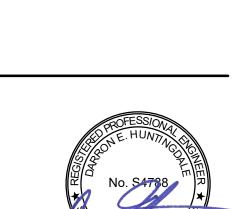
to be a permit for, or an approval of any violation of any of the provisions of the state or local laws. One set of approved plans must be kept on the job until completion.

APPROVED BY: Willdan Engineering Approval of these plans shall not be construed

220 S LASSEN ST SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130						
ISSUED						
MARK	DATE	DESCRIPTION				
	10/16/2020	100% CD SUBMITTAL				
MANAGEMEN	Г					
LIONAKIS PRO CLIENT PROJE		015437.05				
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AGENCY						

LASSEN COUNTY HISTORIC

COURTHOUSE RENOVATION

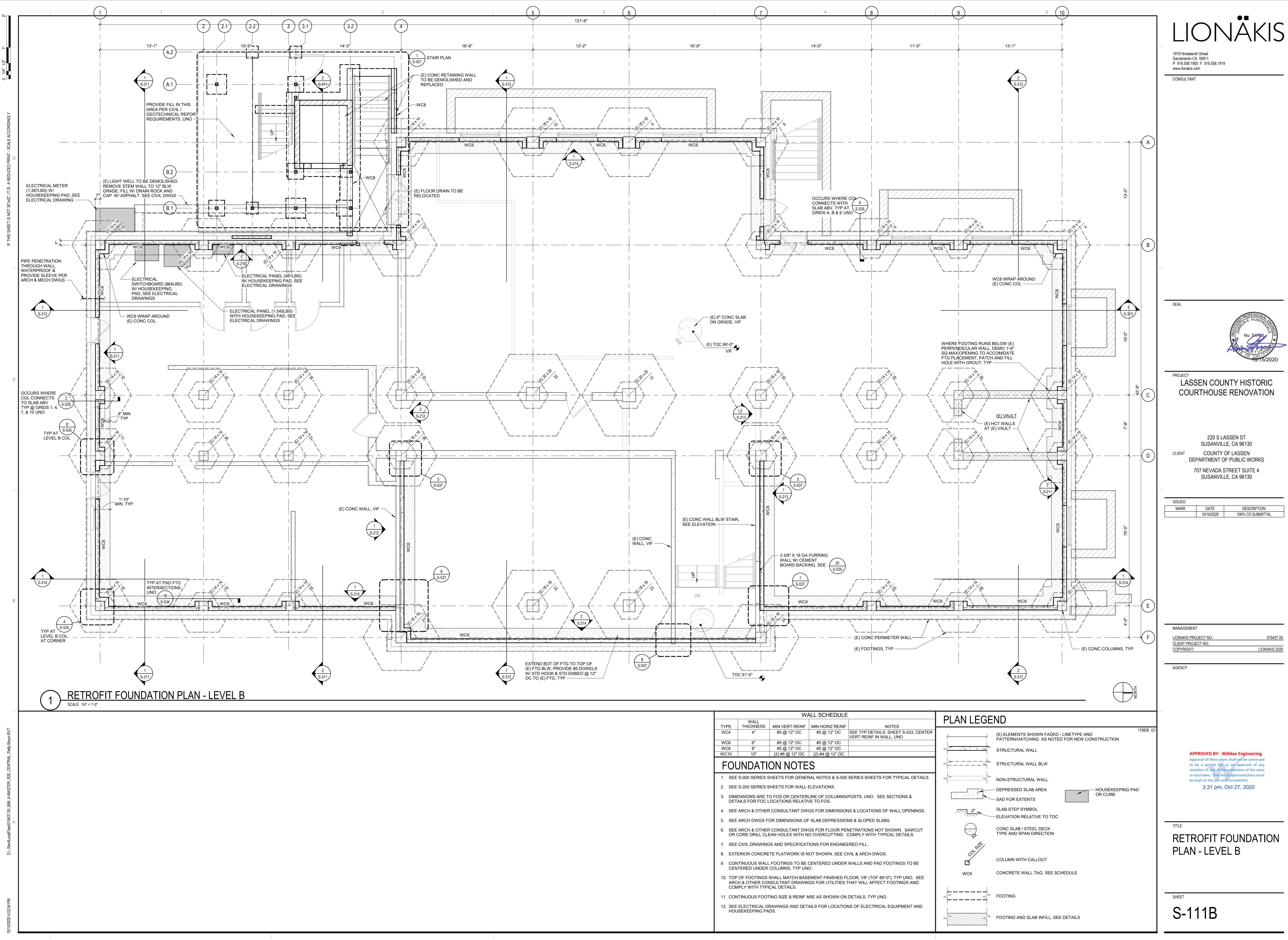


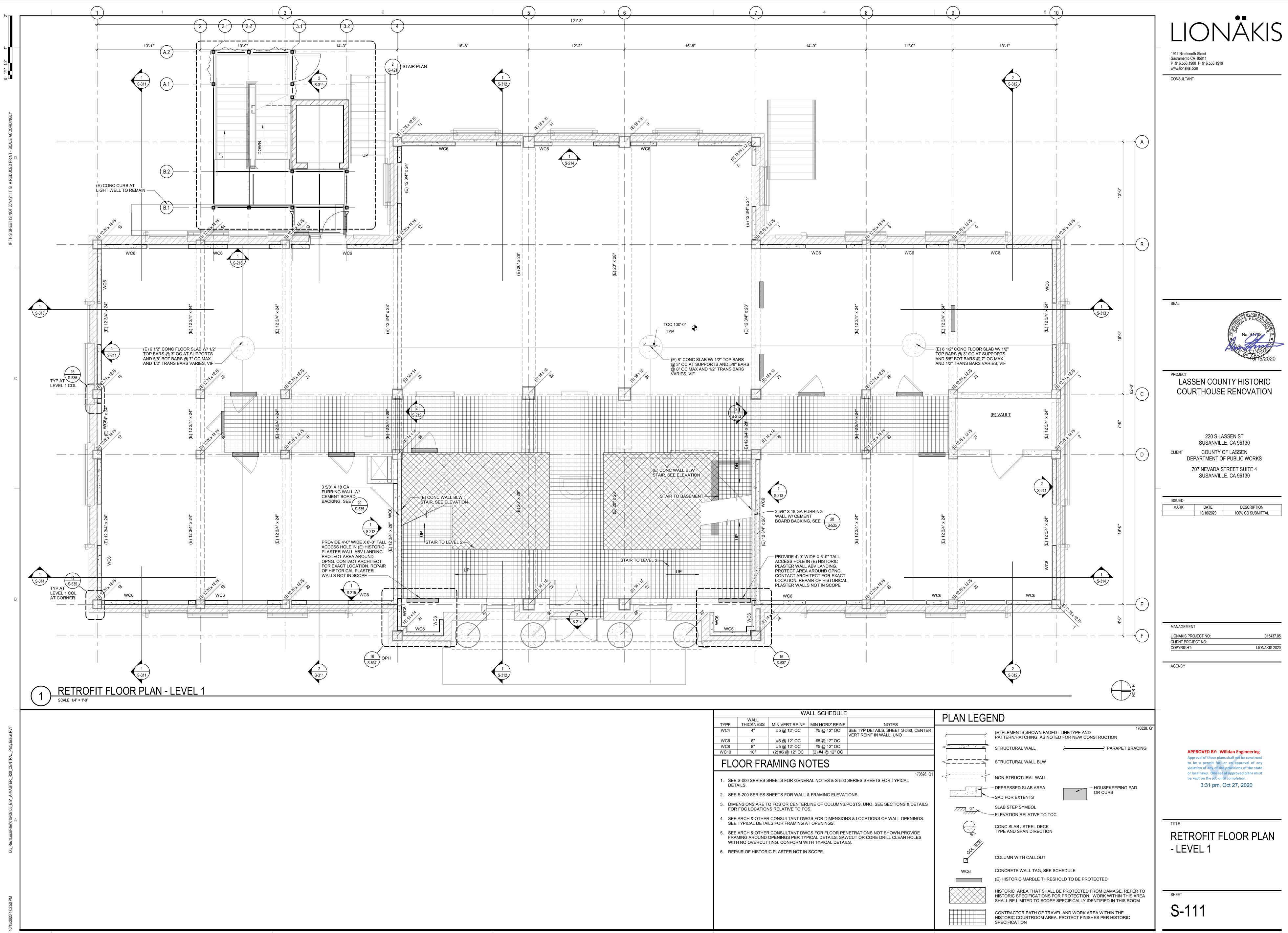
1919 Nineteenth Street Sacramento CA 95811 P 916.558.1900 F 916.558.1919 www.lionakis.com

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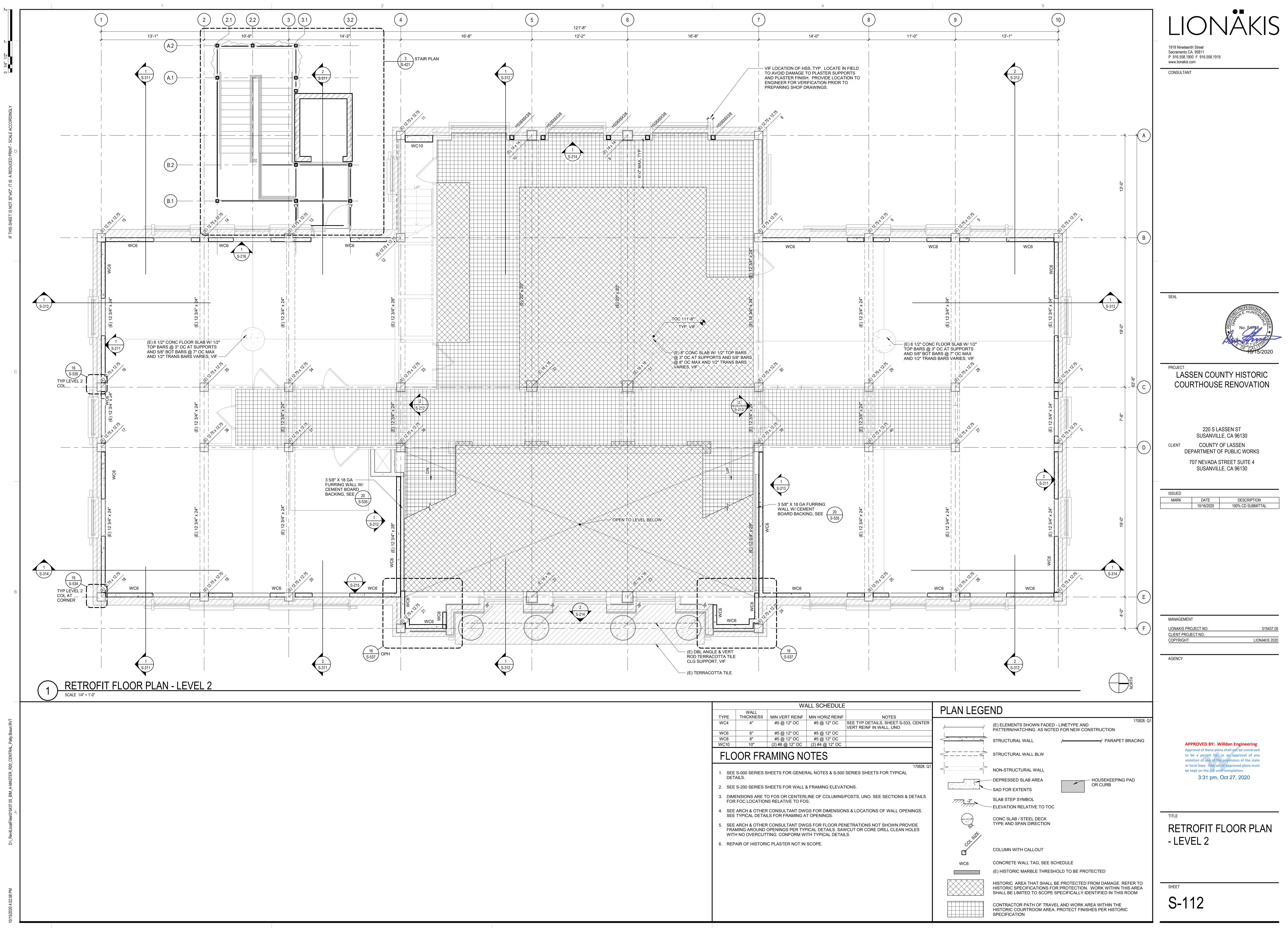
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PROJECT

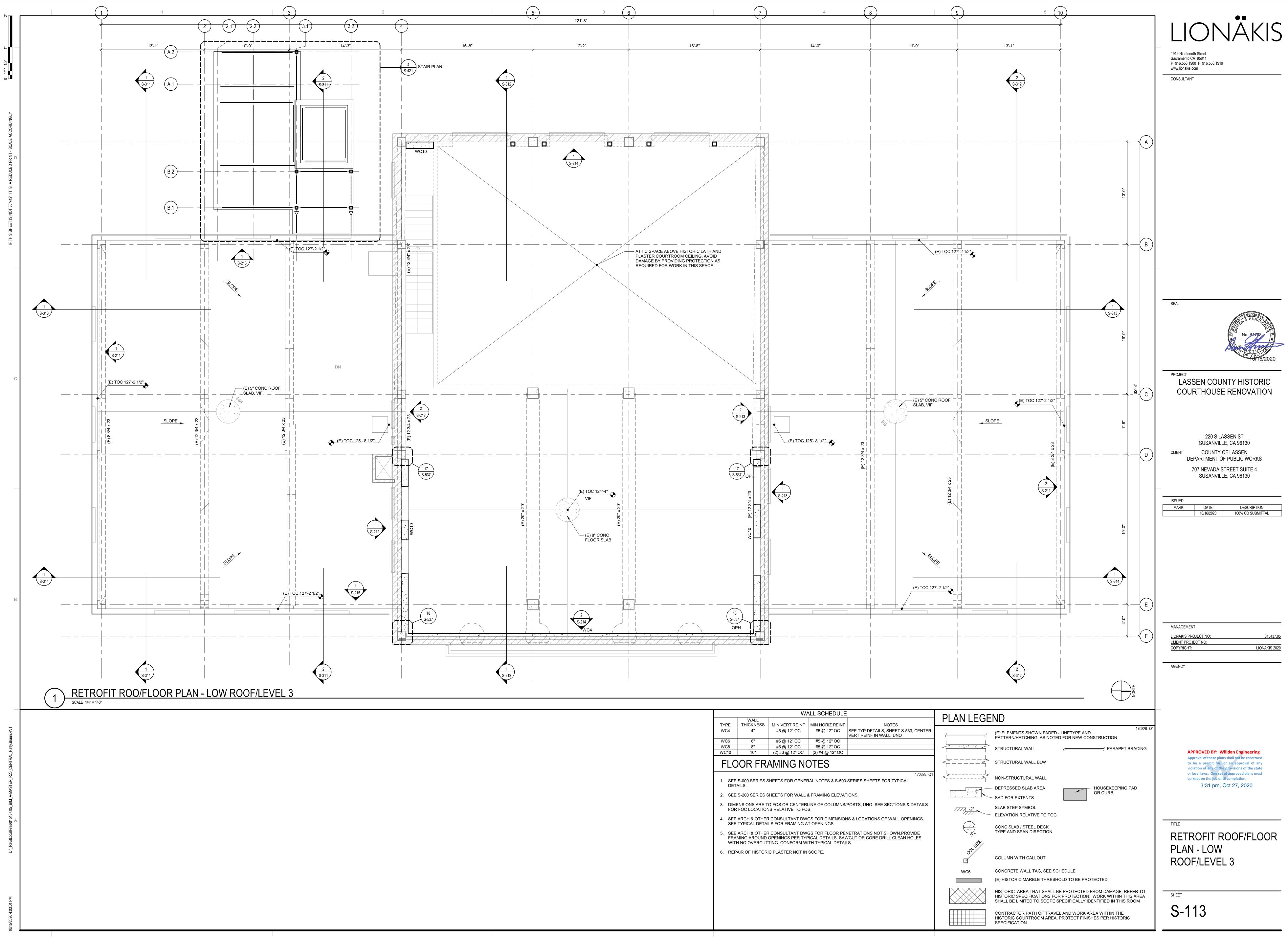




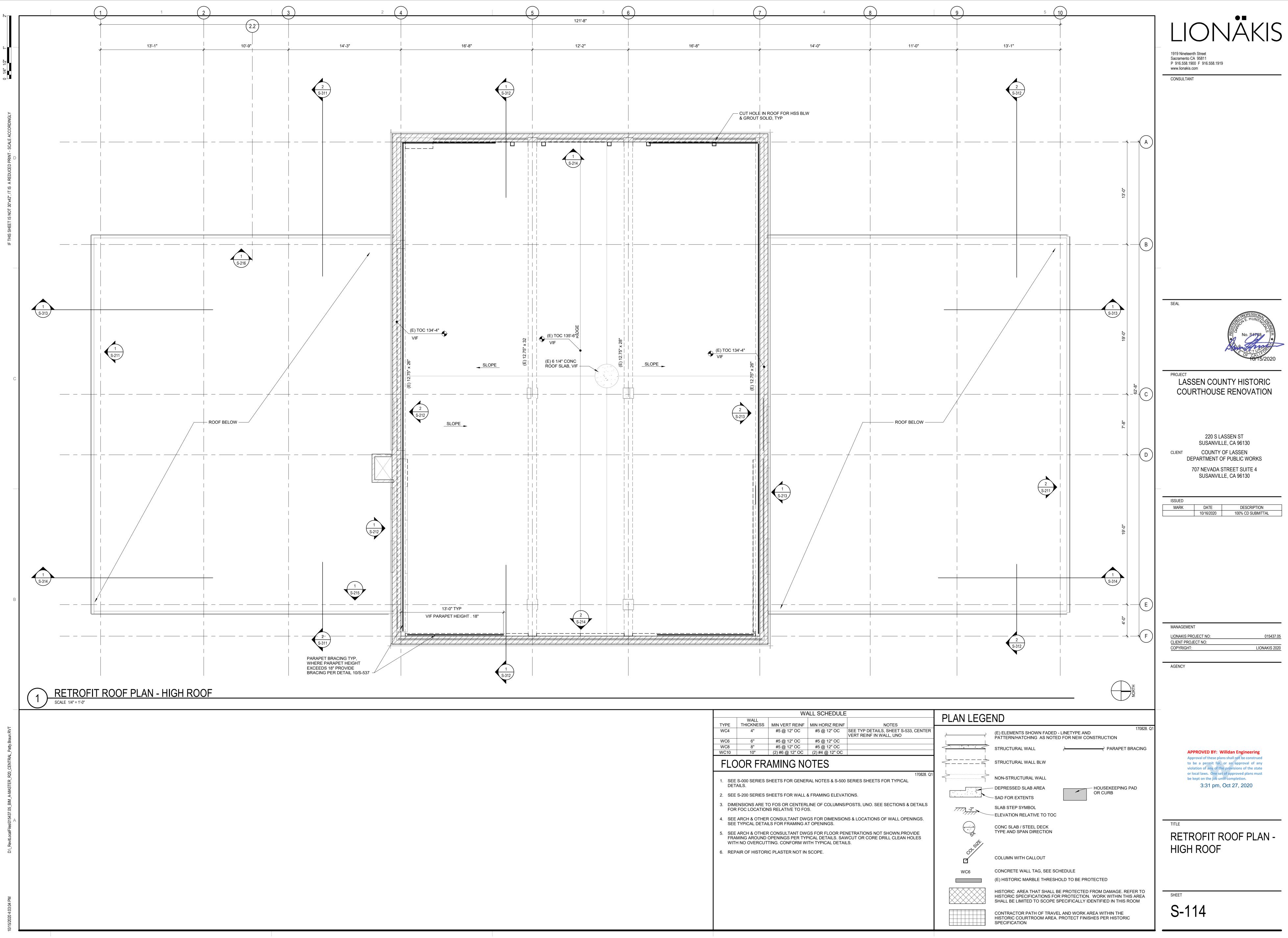
WALL THICKNESWC44"WC66"WC88"WC1010"
 FLOOR F SEE S-000 SERI DETAILS. SEE S-200 SERI DIMENSIONS AF FOR FOC LOCA SEE ARCH & OT SEE TYPICAL DI SEE ARCH & OT FRAMING AROU WITH NO OVER REPAIR OF HIST

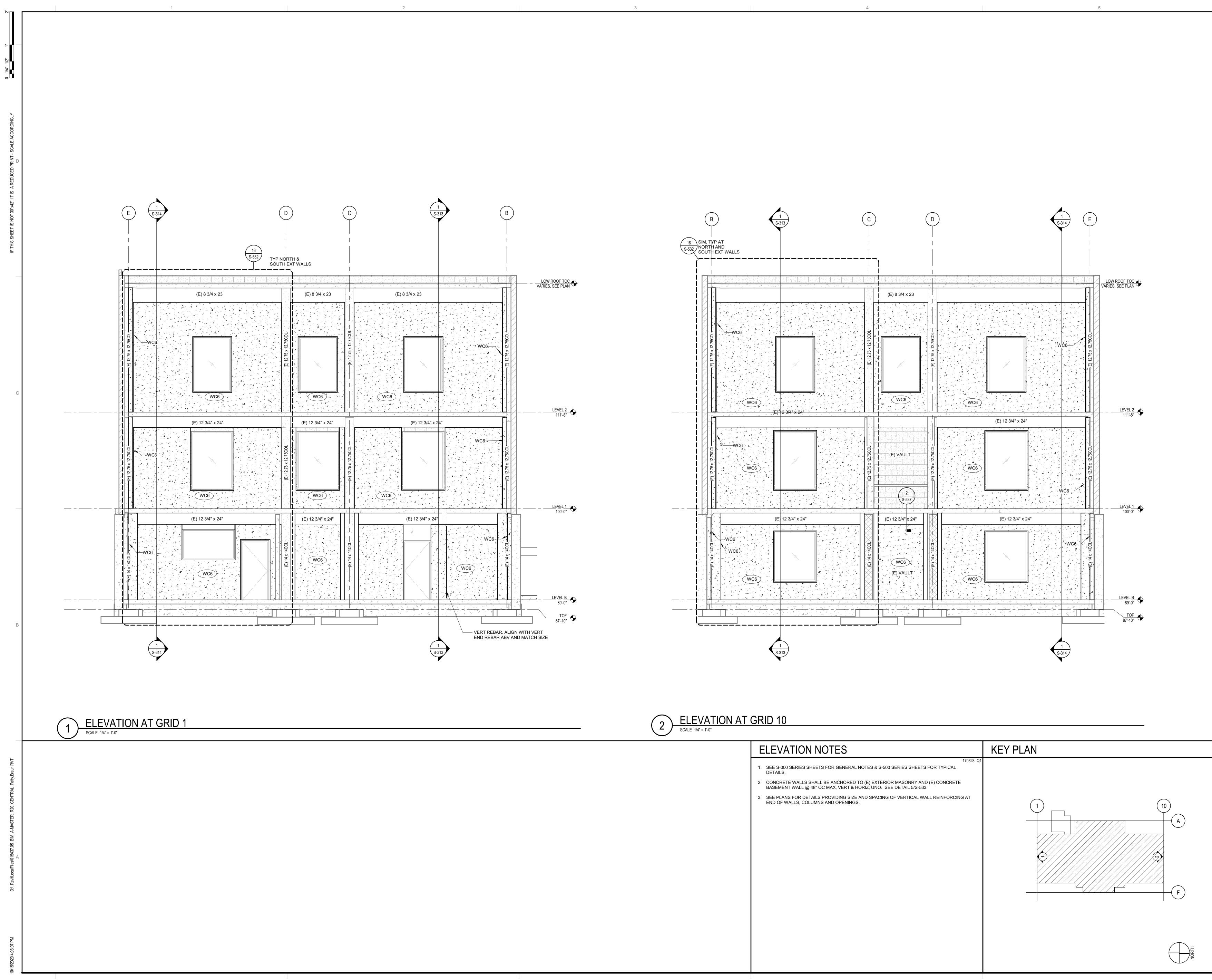


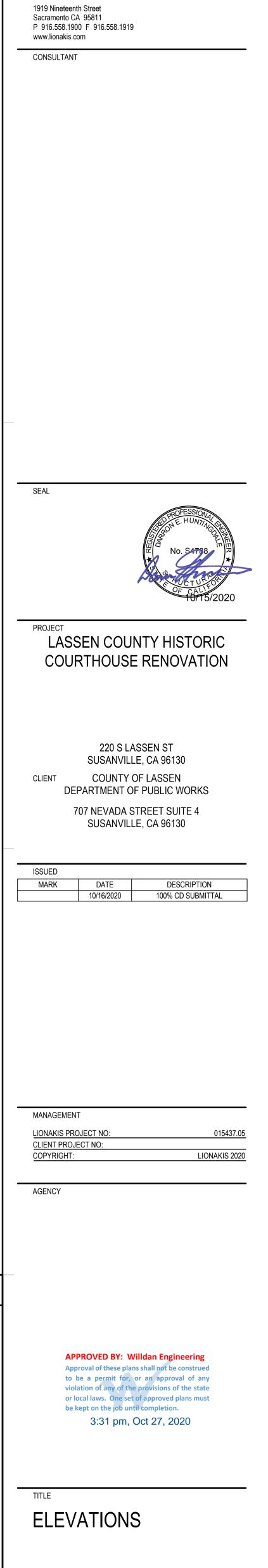
WALL SCHEDULE				PLAN LEGEND			
- ESS	MIN VERT REINF	MIN HORIZ REINF	NOTES				
	#5 @ 12" OC	#5 @ 12" OC	SEE TYP DETAILS, SHEET S-533, CENTER VERT REINF IN WALL, UNO	2	170828. Q1 (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION		
	#5 @ 12" OC	#5 @ 12" OC					
	#5 @ 12" OC (2) #6 @ 12" OC	#5 @ 12" OC (2) #4 @ 12" OC			STRUCTURAL WALL		
FR/	AMING NO				STRUCTURAL WALL BLW		
RIES S	HEETS FOR GENER	RAL NOTES & S-500	170828. Q1 SERIES SHEETS FOR TYPICAL		NON-STRUCTURAL WALL		
					- DEPRESSED SLAB AREA HOUSEKEEPING PAD		
		& FRAMING ELEVAT			- SAD FOR EXTENTS OR CURB		
	S RELATIVE TO FO		POSTS, UNO. SEE SECTIONS & DETAILS	7777 -2"	SLAB STEP SYMBOL		
					- ELEVATION RELATIVE TO TOC		
THER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS. DETAILS FOR FRAMING AT OPENINGS.			IS & LOCATIONS OF WALL OPENINGS.		CONC SLAB / STEEL DECK		
THER	CONSULTANT DW	GS FOR FLOOR PE	NETRATIONS NOT SHOWN.PROVIDE		TYPE AND SPAN DIRECTION		
UND (OPENINGS PER TYP		VCUT OR CORE DRILL CLEAN HOLES	SUL			
STORI	C PLASTER NOT IN	SCOPE.		^{col-st} ^t	COLUMN WITH CALLOUT		
				WC6	CONCRETE WALL TAG, SEE SCHEDULE		
					(E) HISTORIC MARBLE THRESHOLD TO BE PROTECTED		
					HISTORIC AREA THAT SHALL BE PROTECTED FROM DAMAGE. REFER TO HISTORIC SPECIFICATIONS FOR PROTECTION. WORK WITHIN THIS AREA SHALL BE LIMITED TO SCOPE SPECIFICALLY IDENTIFIED IN THIS ROOM		
					CONTRACTOR PATH OF TRAVEL AND WORK AREA WITHIN THE HISTORIC COURTROOM AREA. PROTECT FINISHES PER HISTORIC SPECIFICATION		



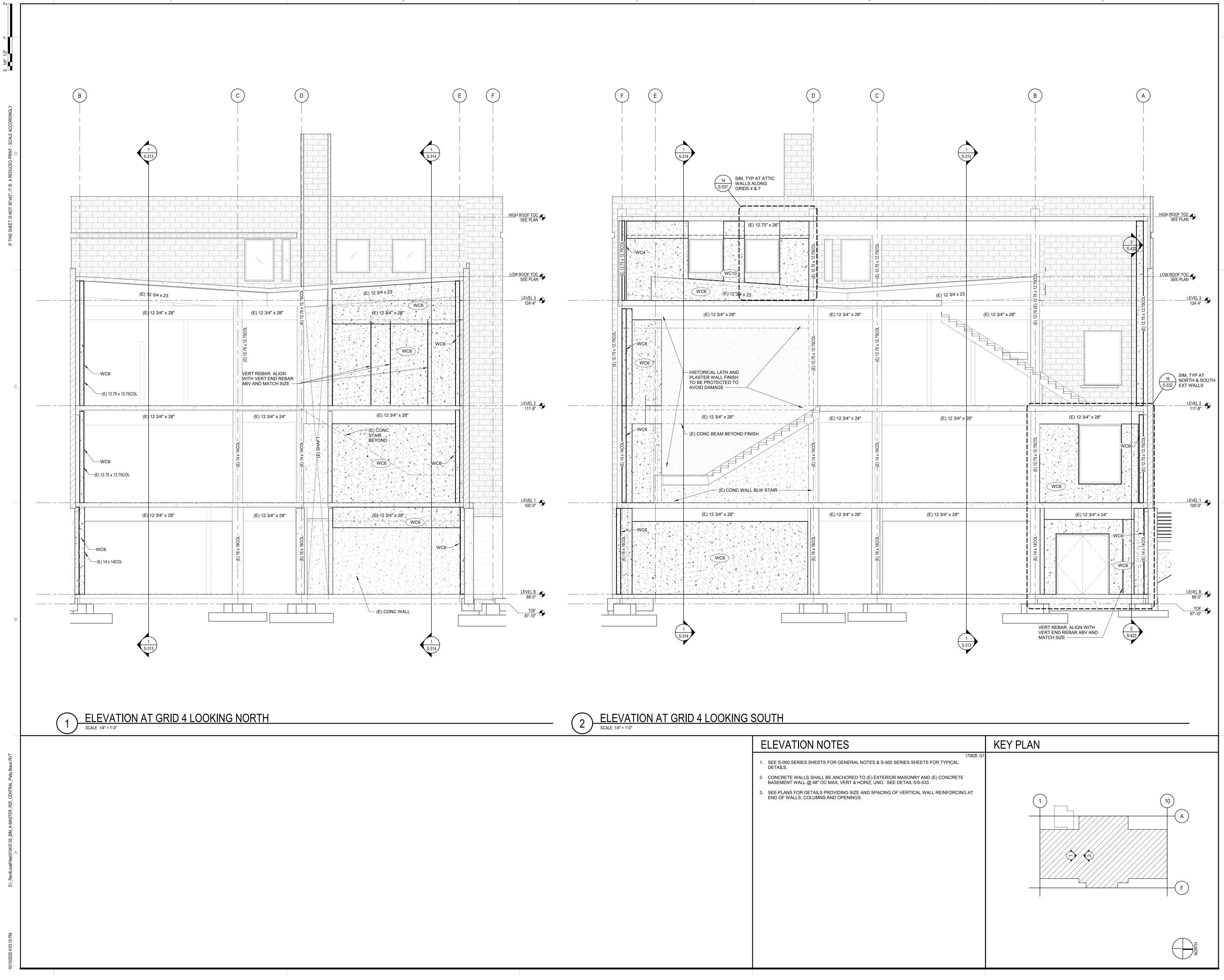
		WALL
		TYPE THICKNE
		WC4 4"
		WC6 6"
		WC8 8"
		WC10 10"
		FLOOR F
		L LOOK F
		1. SEE S-000 SER
		DETAILS.
		2. SEE S-200 SER
		3. DIMENSIONS A
		FOR FOC LOCA
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		FRAMING AROU
		WITH NO OVER
		6. REPAIR OF HIS

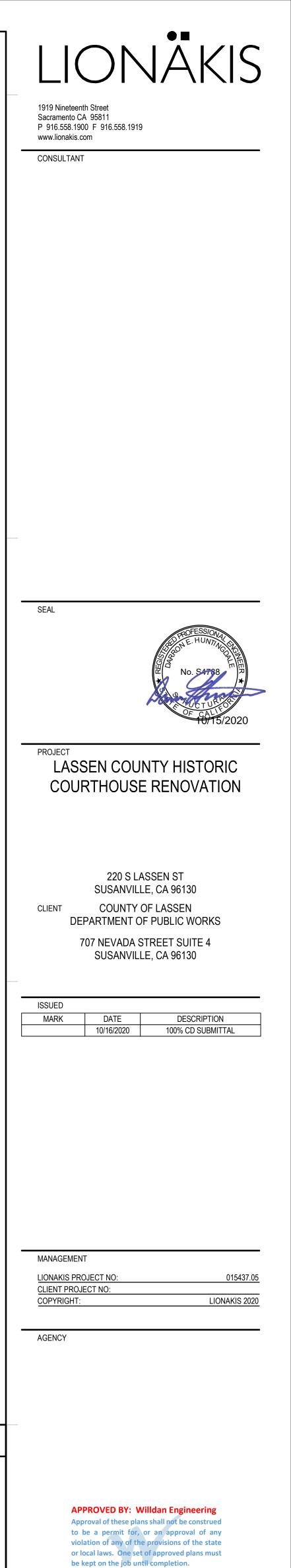






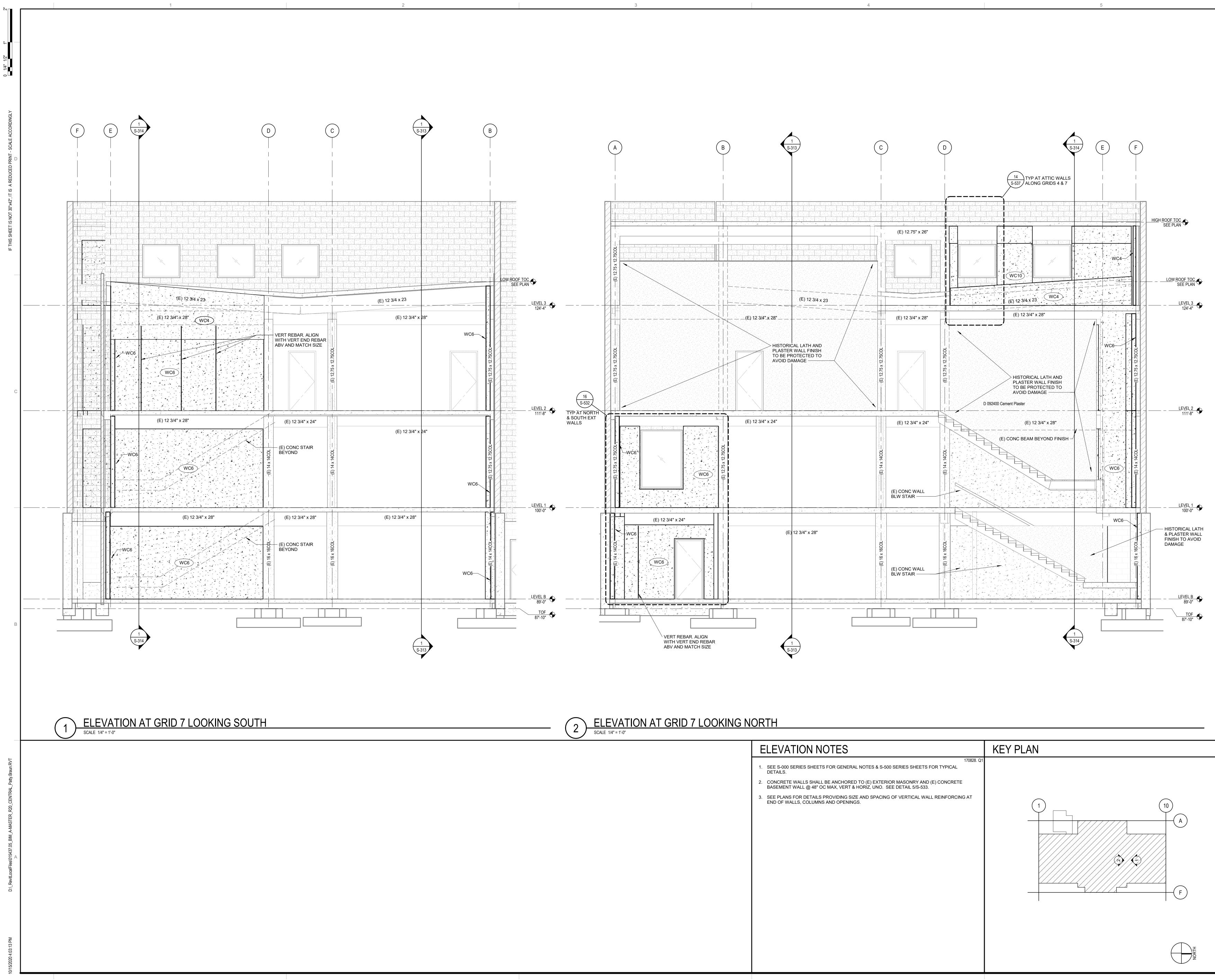
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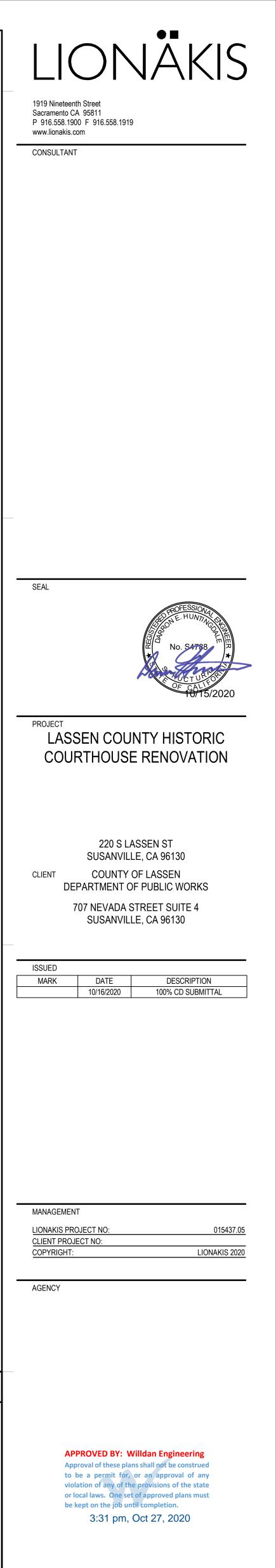




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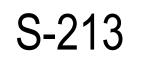


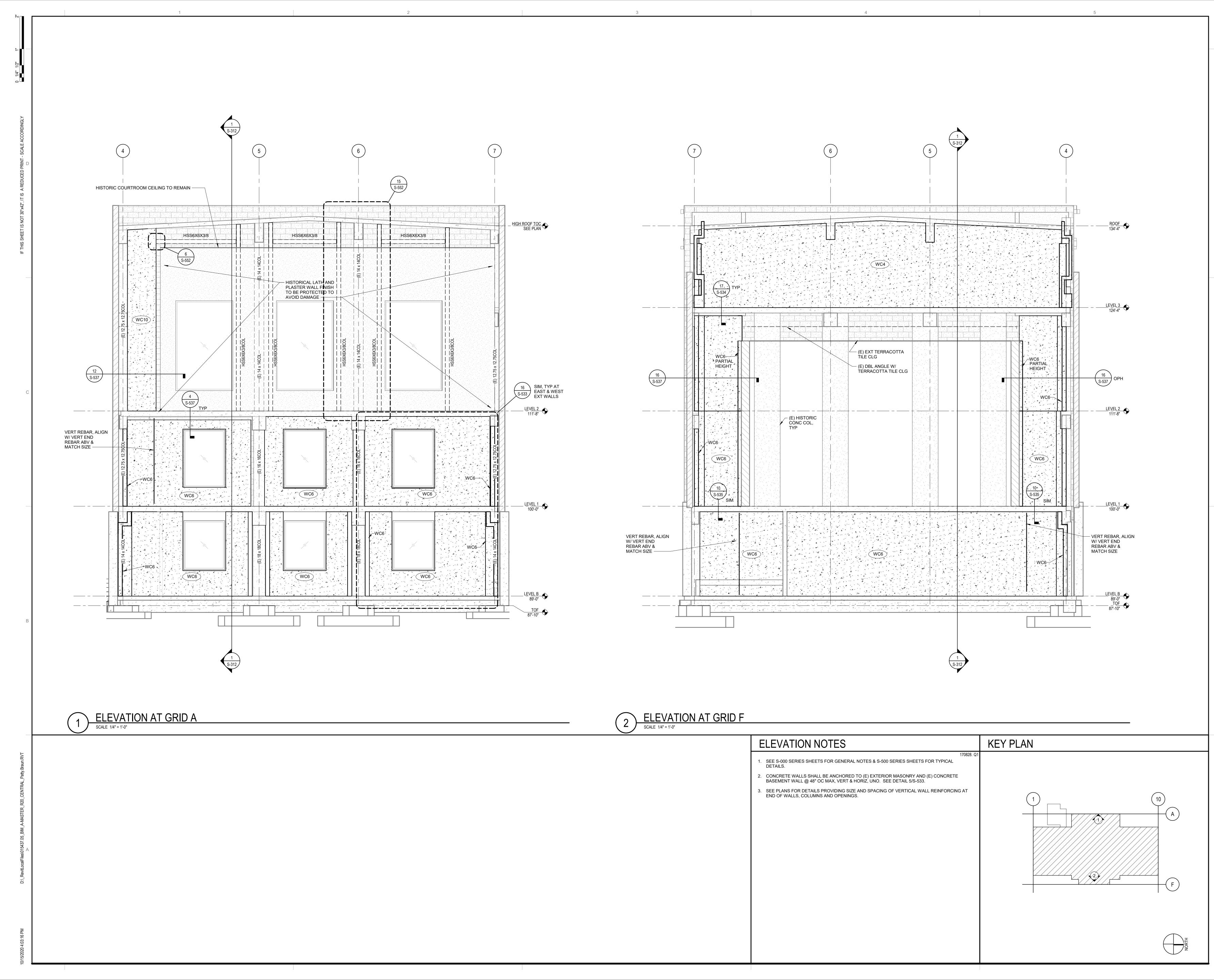


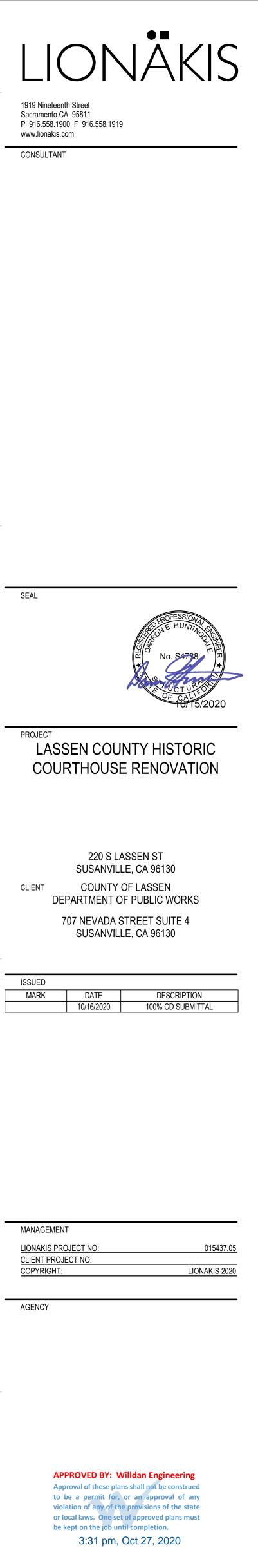




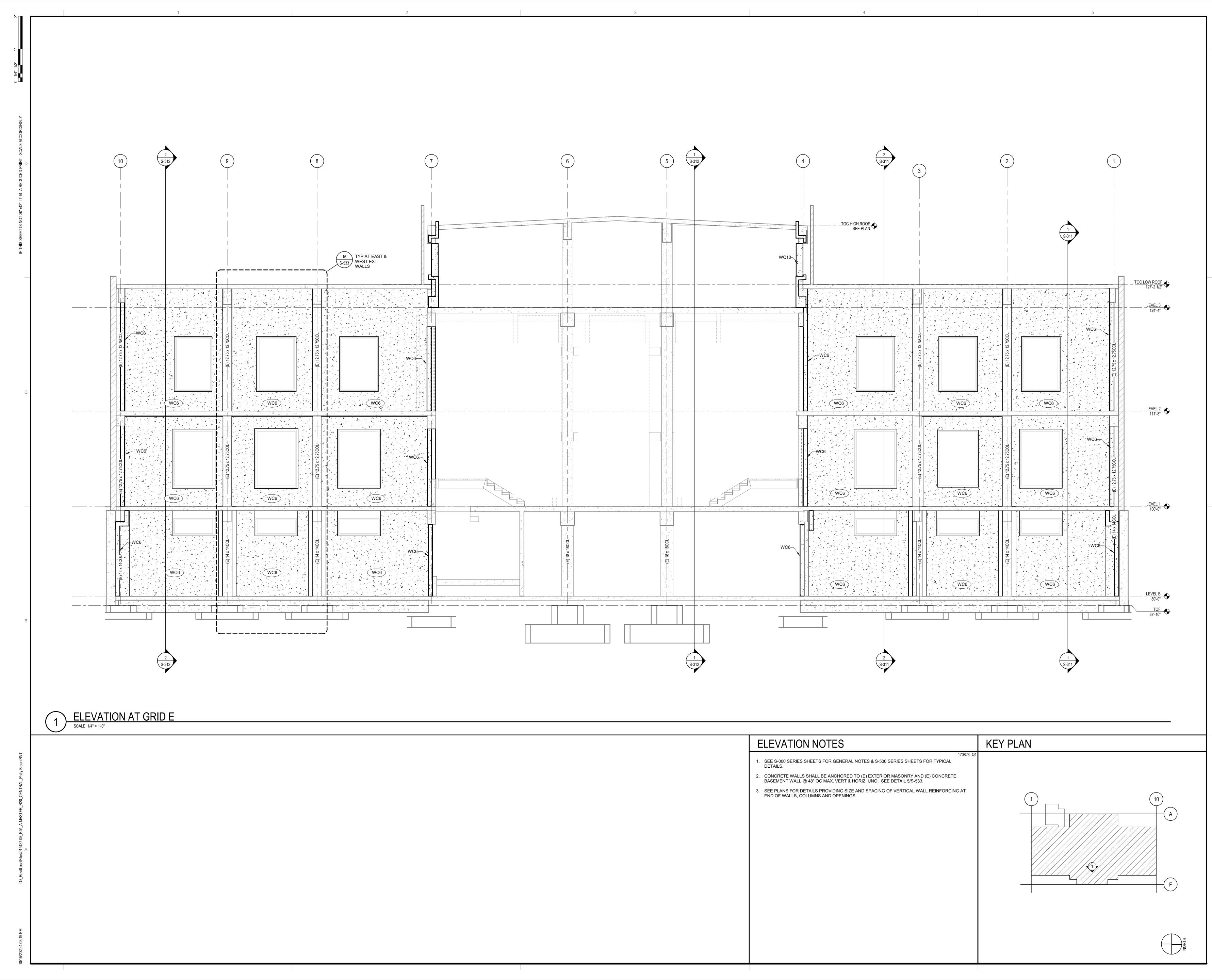
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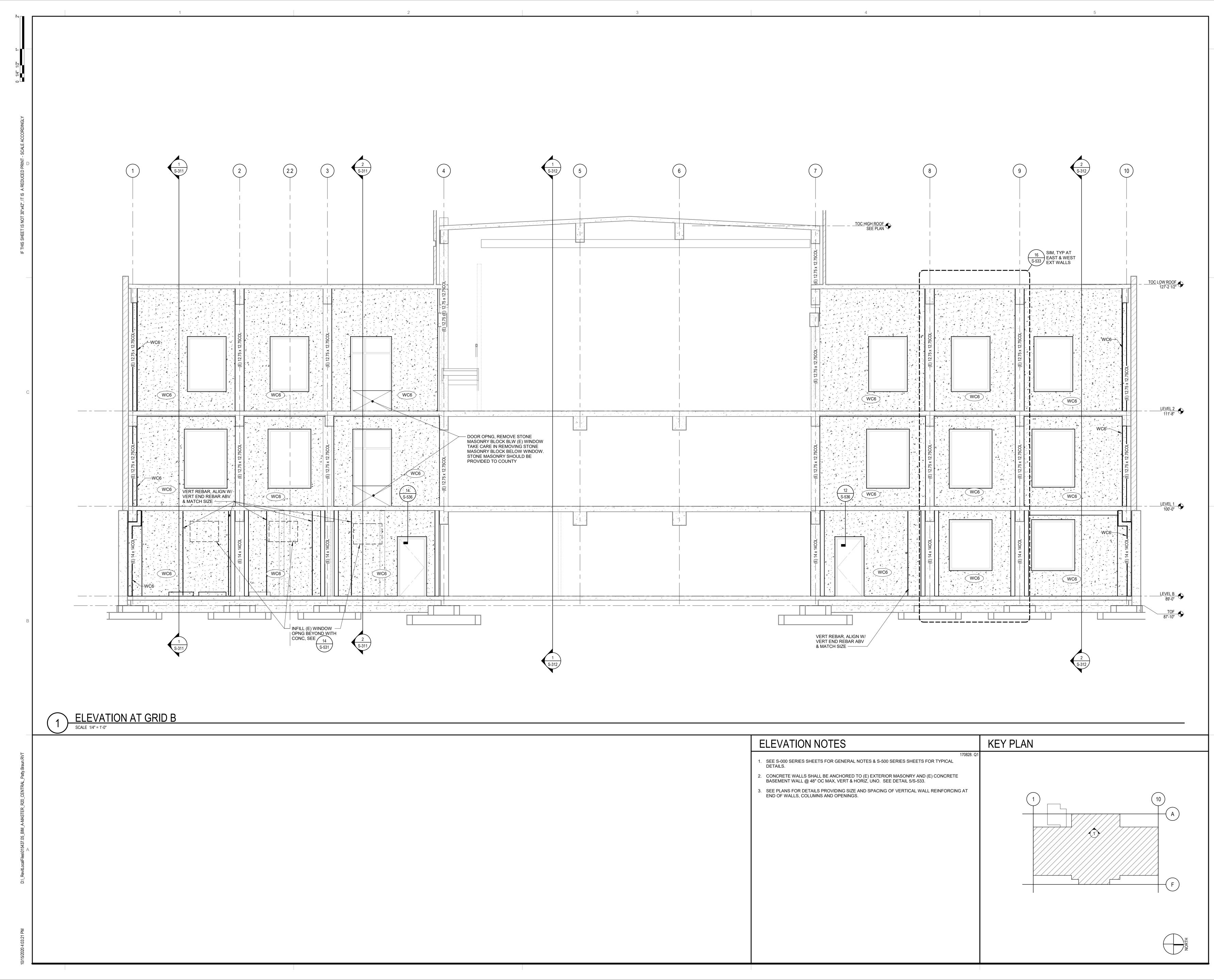


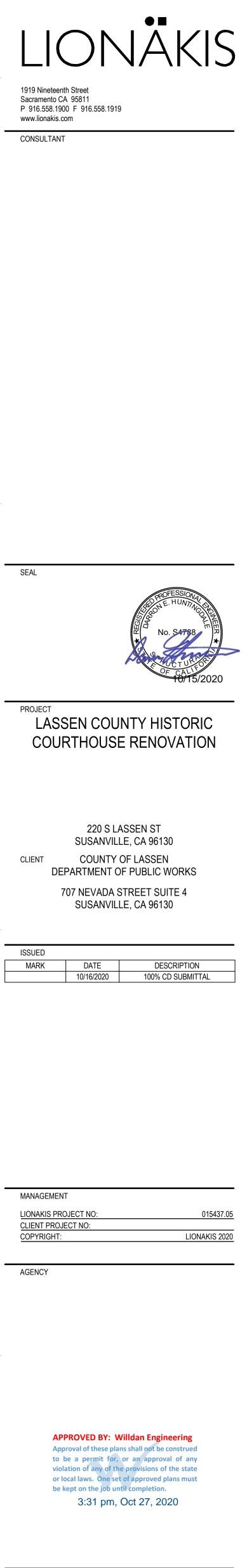




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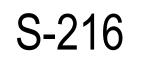
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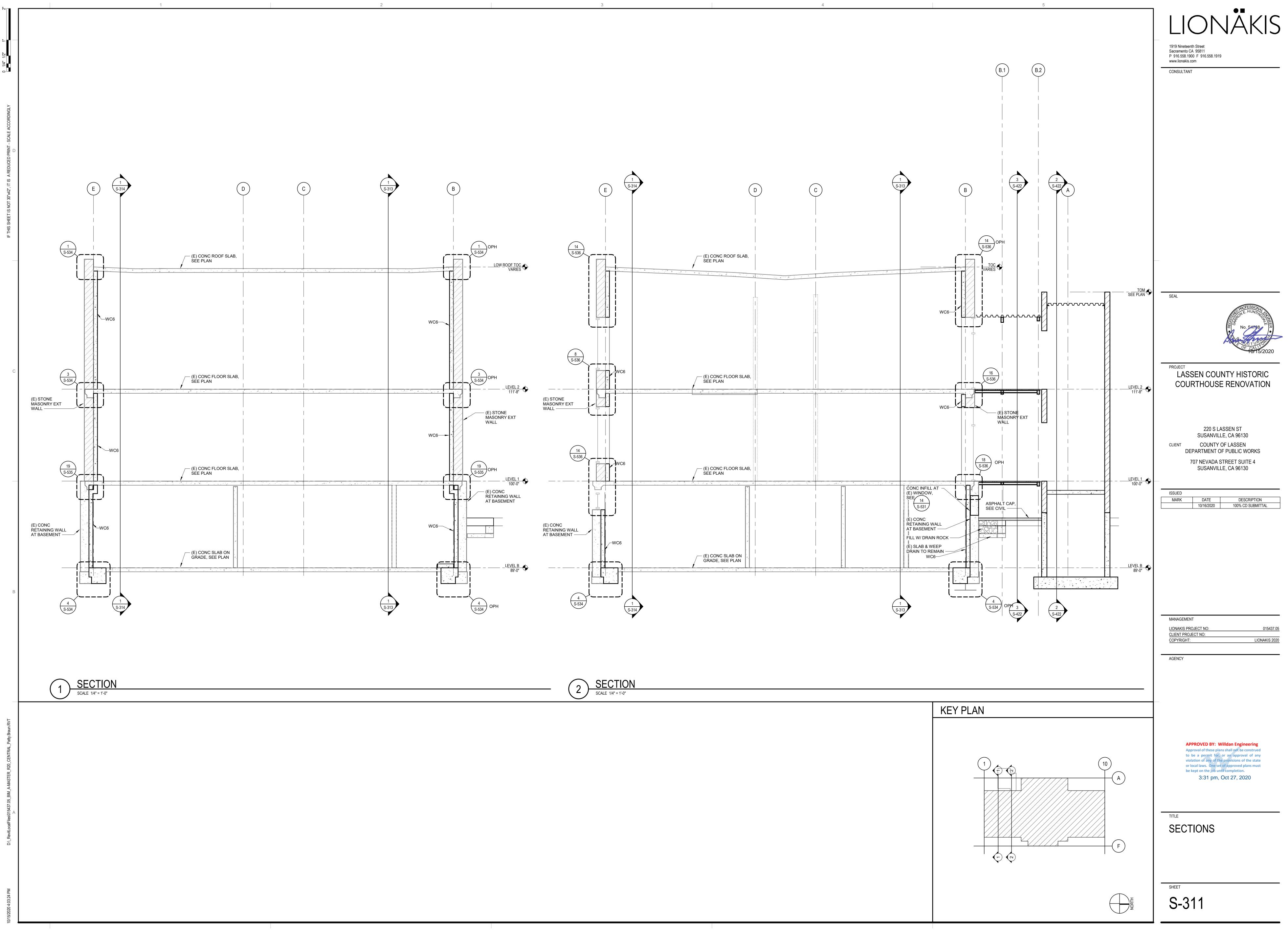


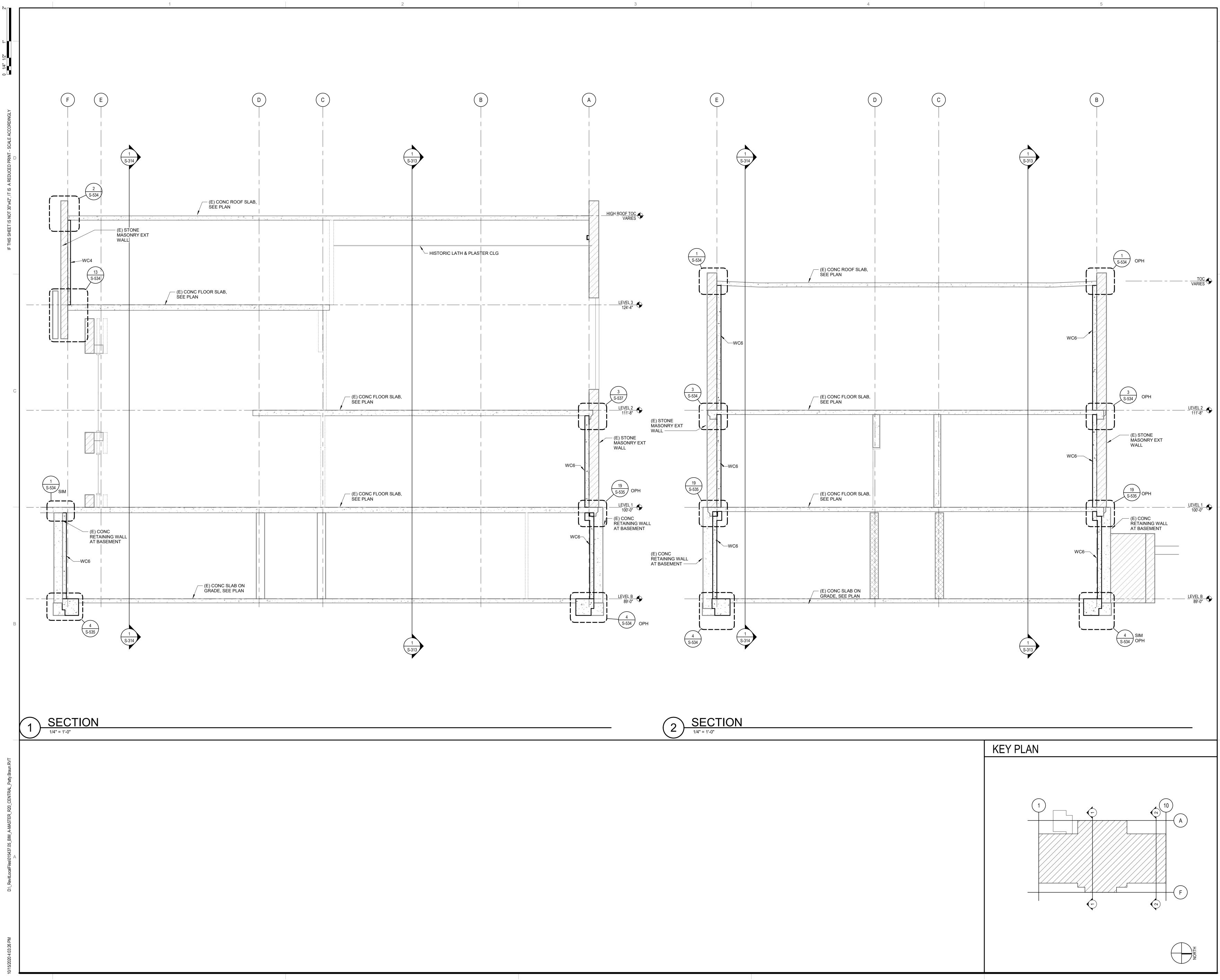




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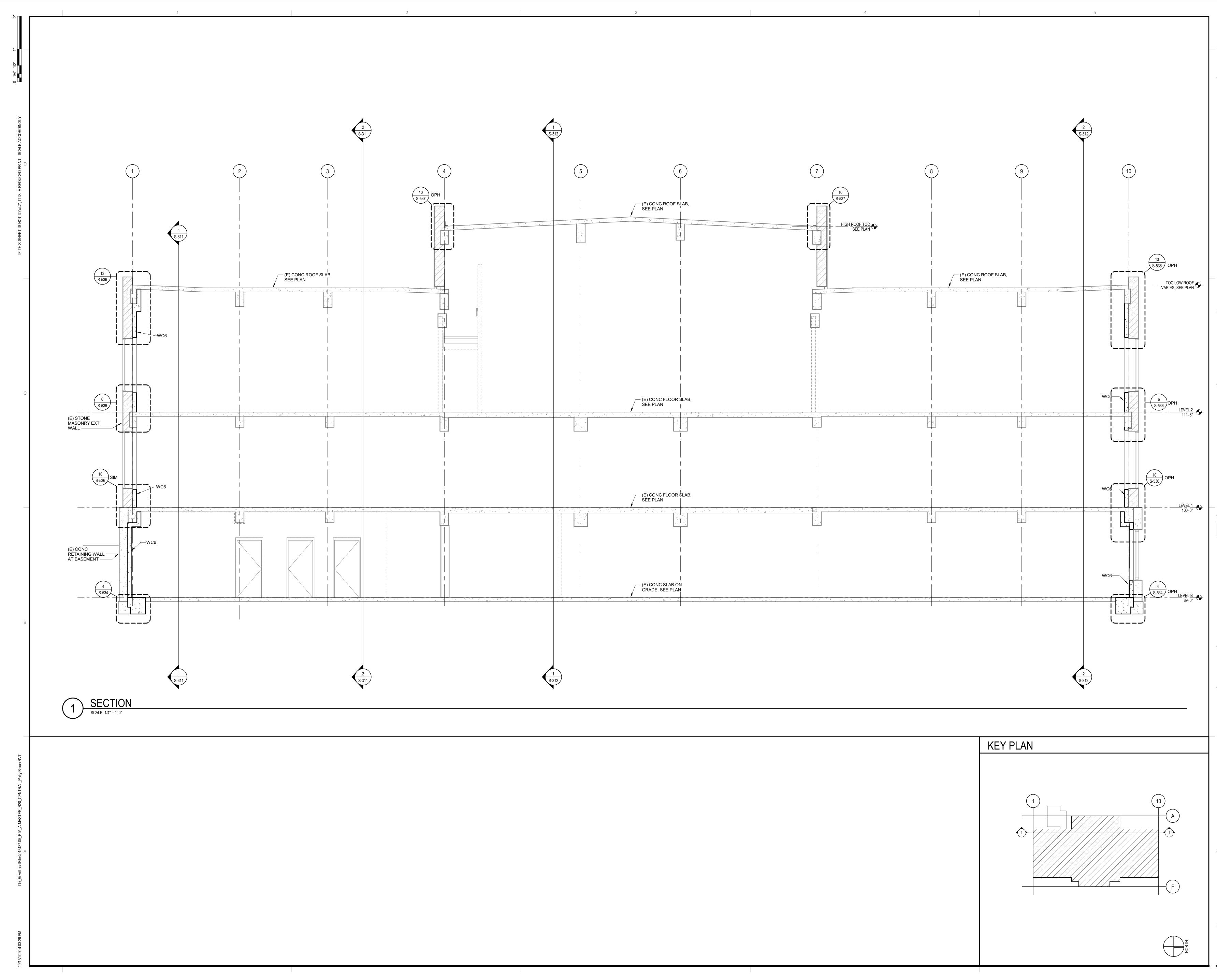










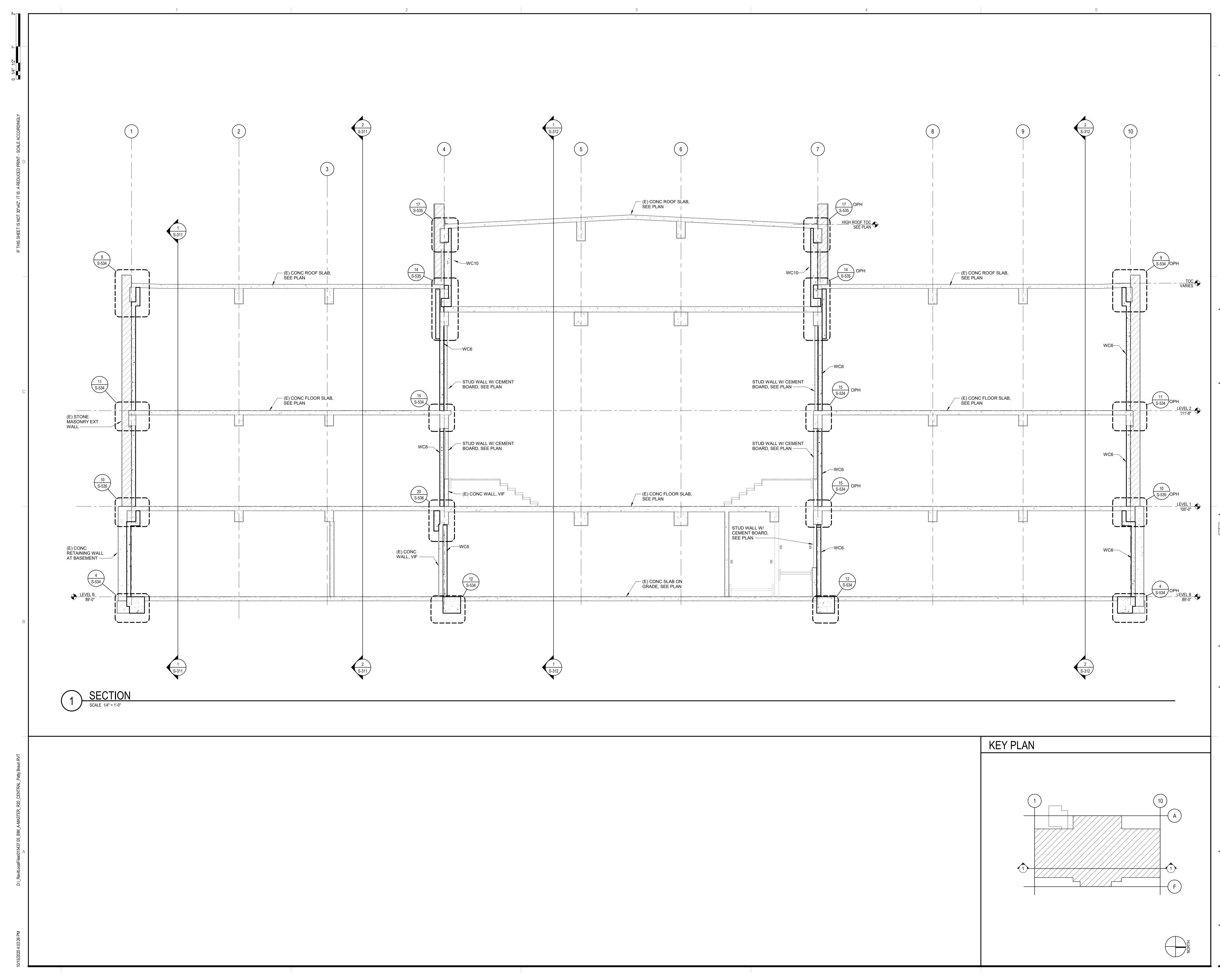


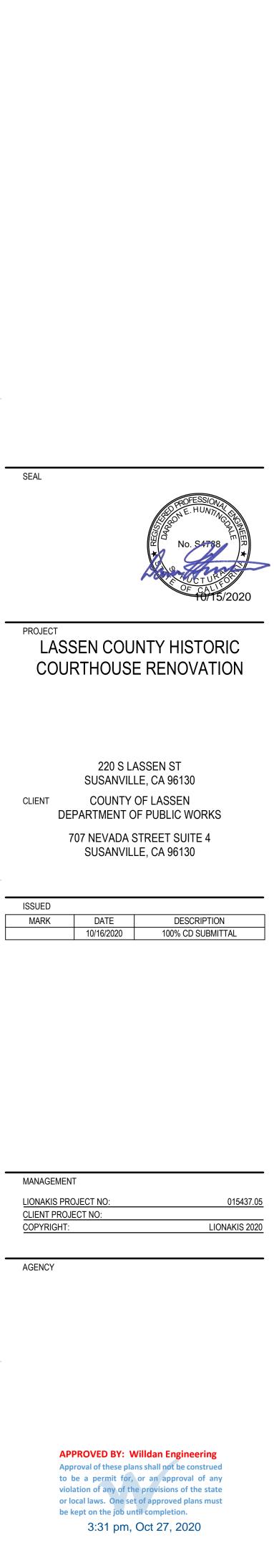


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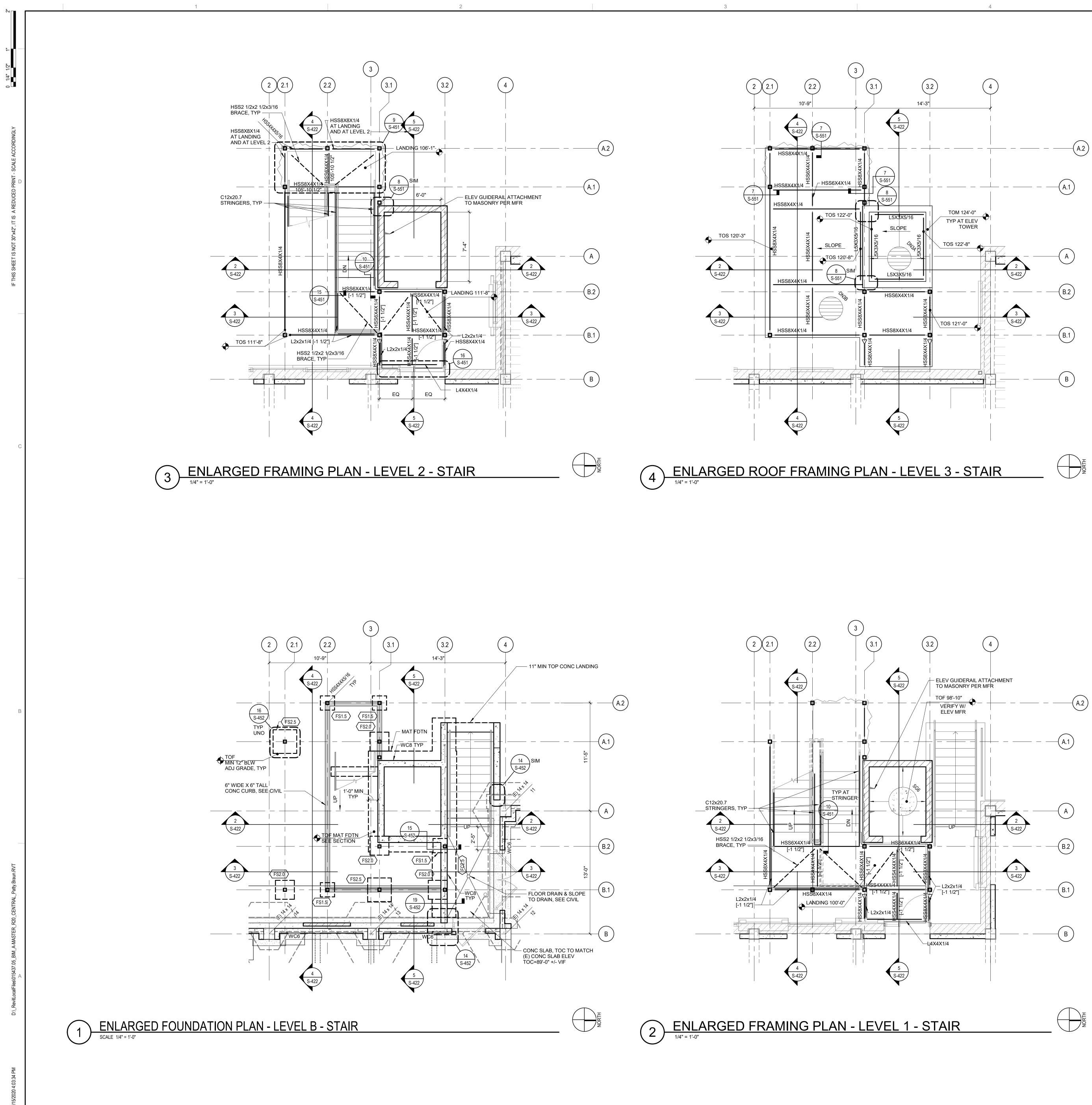
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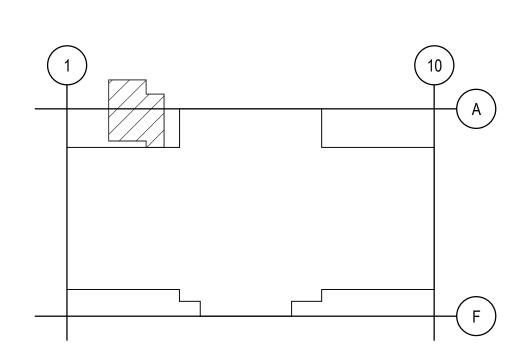


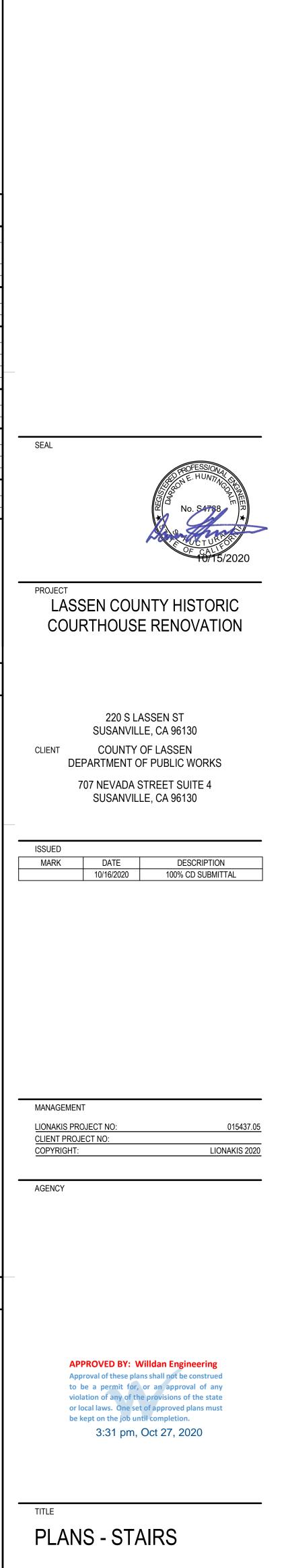
SC⊦	IEDU	LES	5					
				WA	ALL SCHEDULE			
TYPE	WALL THICKNE	SS M		ERT REINF	MIN HORIZ REINF	NOTES		
WC8	8"		#5 @) 12" OC	#5 @ 12" OC			
WM8						SEE DETAIL 19/S-541		
			CO	NTINUOL	JS FOOTING SC	CHEDULE		
TYPE	WIDTH	NIDTH DEPTH		REINFORCEMENT				
FC2.5	2'-6" 1'-6" (4) #5 CONT AT BOT & (2) #5 AT TOP W/ #4 TRANS BARS @ 12" OC							
	SPREAD FOOTING SCHEDULE							
TYPE	SIZE	DEP	этн		RE	INFORCEMENT		
FS1.5	1'-6"x1'-6'			(3) #5 EW A	Т ВОТ			
FS2.0	2'-0"x2'-0'	0"x2'-0" 1'-6" (4) #5 EW AT BOT						
FS2.5	2'-6"x2'-6'	' 1'-6	-6"	(5) #5 EW A	Т ВОТ			
				MAT	SLAB SCHEDU	LE		
DEPTH					DESCRIPTI	ON		
1'-6"	1'-6" #7 BARS W/ STD HOOK AT ENDS, EA WAY, TOP & BOT @10" OC							
				DE	CK SCHEDULE			
TYPE		DESCRIPTION						
DN3A	3" x 18	3" x 18 GA TYPE "N" STEEL DECK						
DN3B	EXPO	SED 3" T	YPE '	'N" STEEL D	ECK,NVERTED W/ N	ESTED SIDE LAP, 18 GA MIN W/ G90 FINISH		
	SLAB SCHEDULE							
TYPE		DESCRIPTION						
SG6	6" THI	" THICK CONC SLAB ON GRADE W/ #4 @ 12" OC EW O/ CLSM						

PLAN LEGEND (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION STRUCTURAL WALL STRUCTURAL WALL BLW NON-STRUCTURAL WALL — DEPRESSED SLAB AREA - SAD FOR EXTENTS SLAB STEP SYMBOL 7777 -2" ELEVATION RELATIVE TO TOC CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION

COLUMN WITH CALLOUT CONCRETE WALL TAG, SEE SCHEDULE WC6 (FCX.X) CONTINUOUS FOOTING TAG FSX.X SPREAD FOOTING TAG FOOTING -----FOOTING AND SLAB INFILL, SEE DETAILS — BEAM SIZE W12x40 [-2"] BEAM ELEVATION RELATIVE TO TOS NON-FRAME MOMENT CONNECTION, SEE $\begin{pmatrix} 6 \\ S-551 \end{pmatrix}$ TYP EXPOSED BEAM TO COL CONNECTION, SEE $\begin{pmatrix} 2\\ S-551 \end{pmatrix}$

TYP EXPOSED BEAM TO BEAM CONNECTION, SEE $\begin{pmatrix} 1 \\ S-551 \end{pmatrix}$ KEY PLAN





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HOUSEKEEPING PAD OR CURB

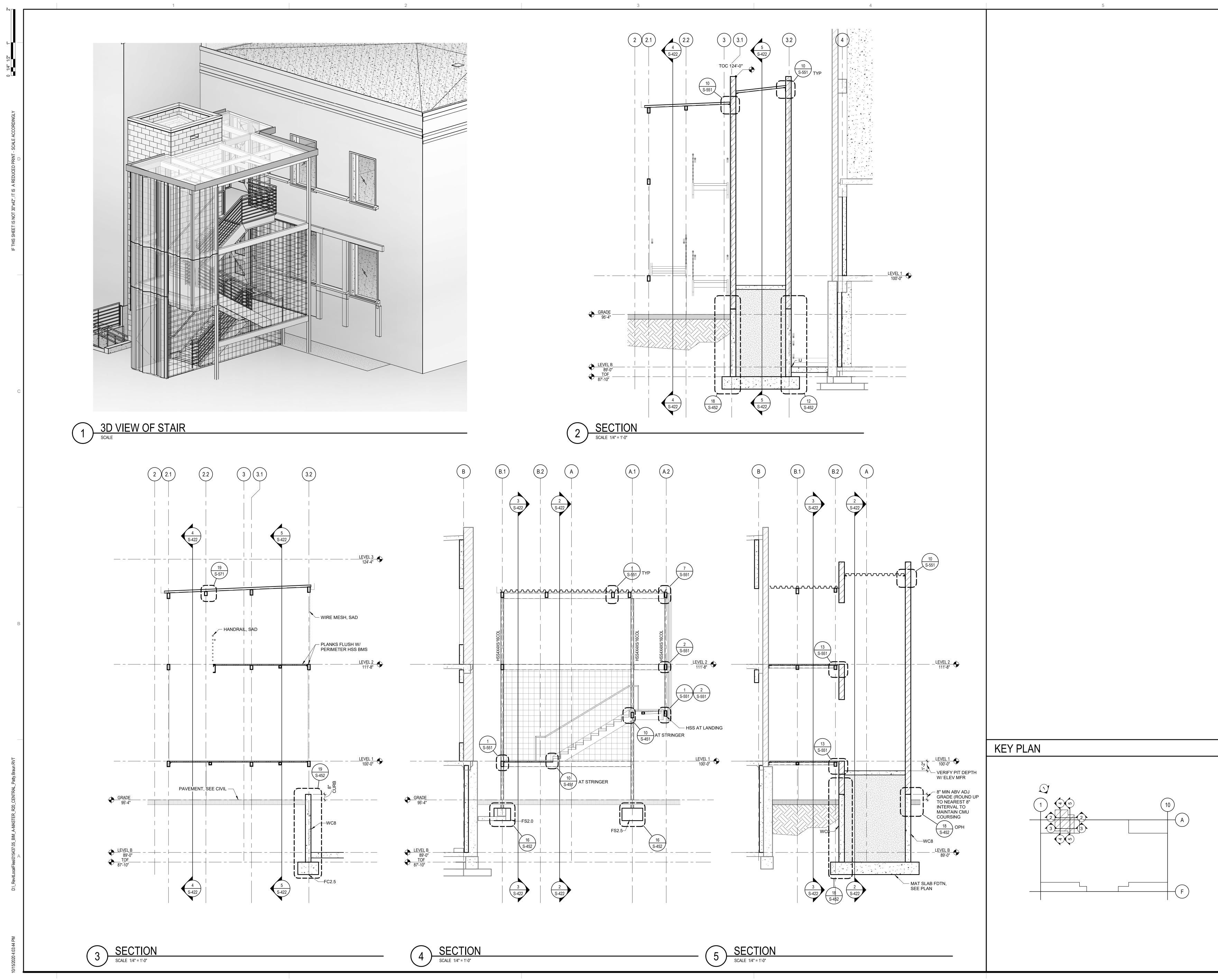
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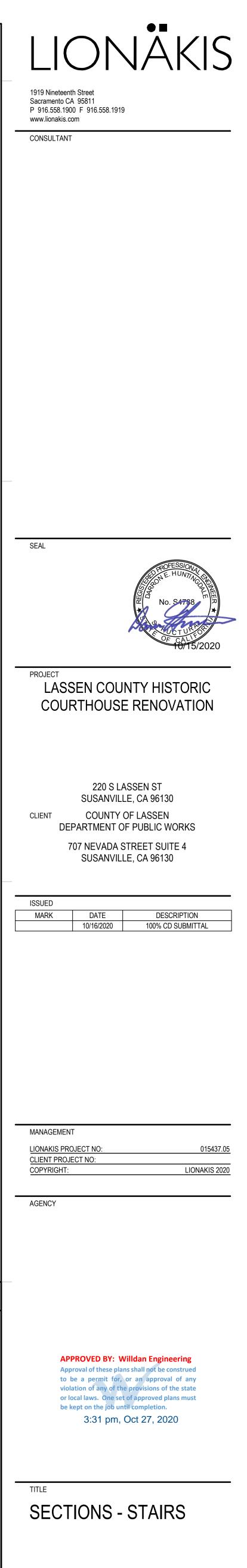
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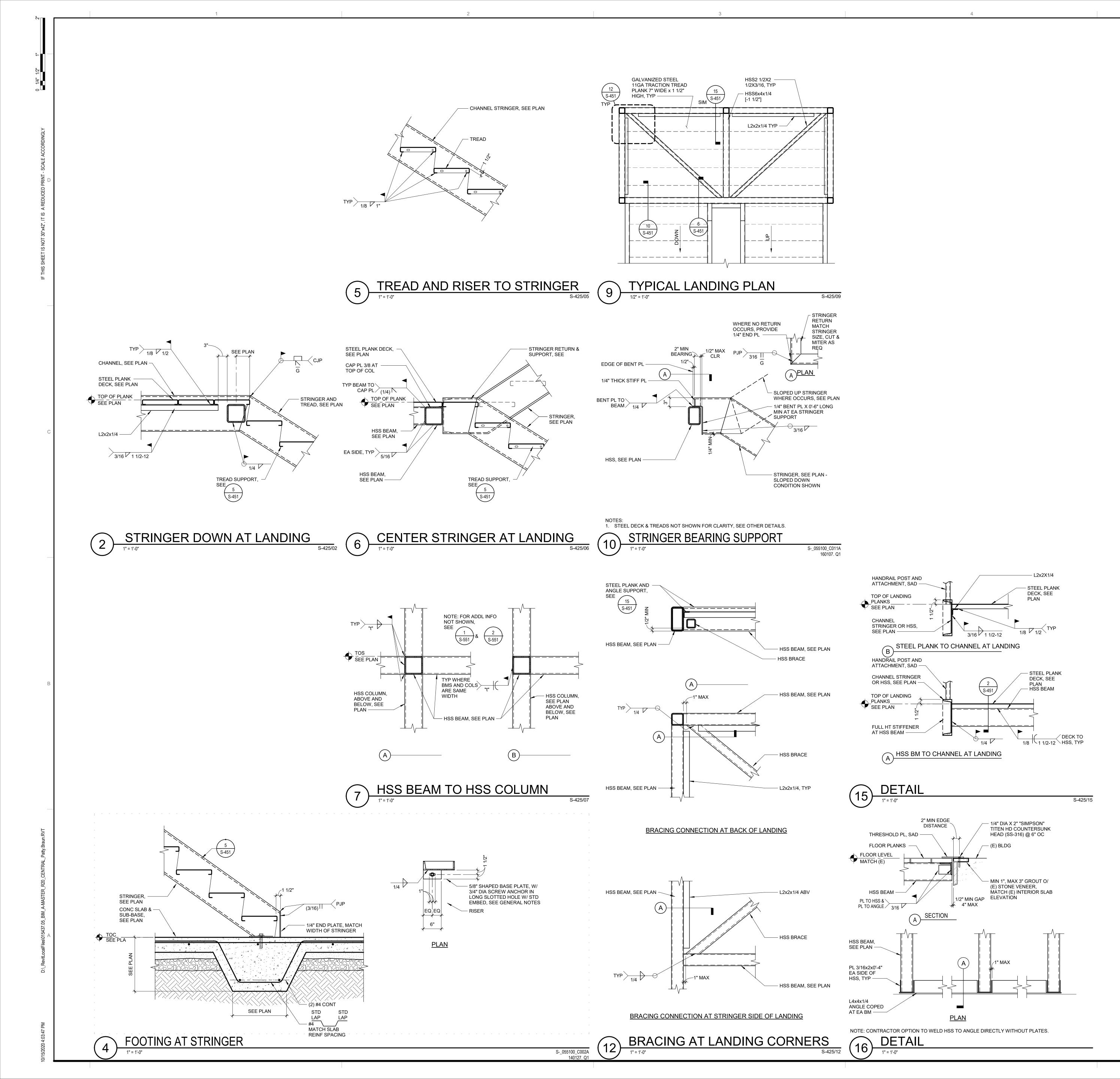
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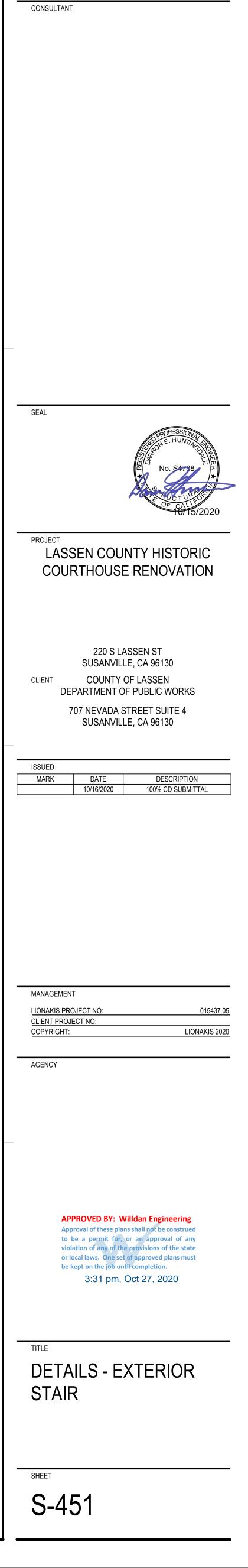
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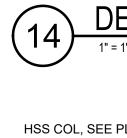
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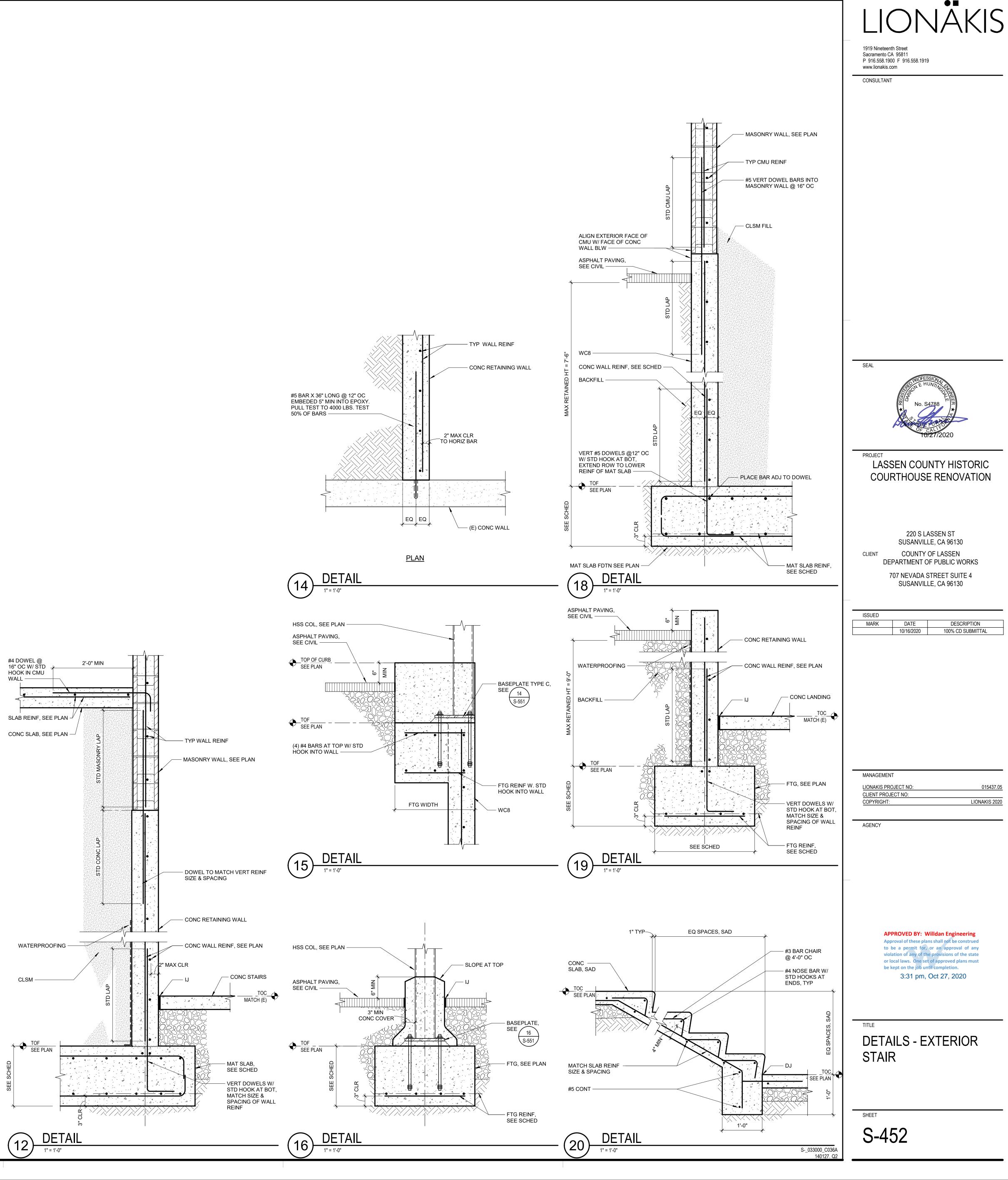
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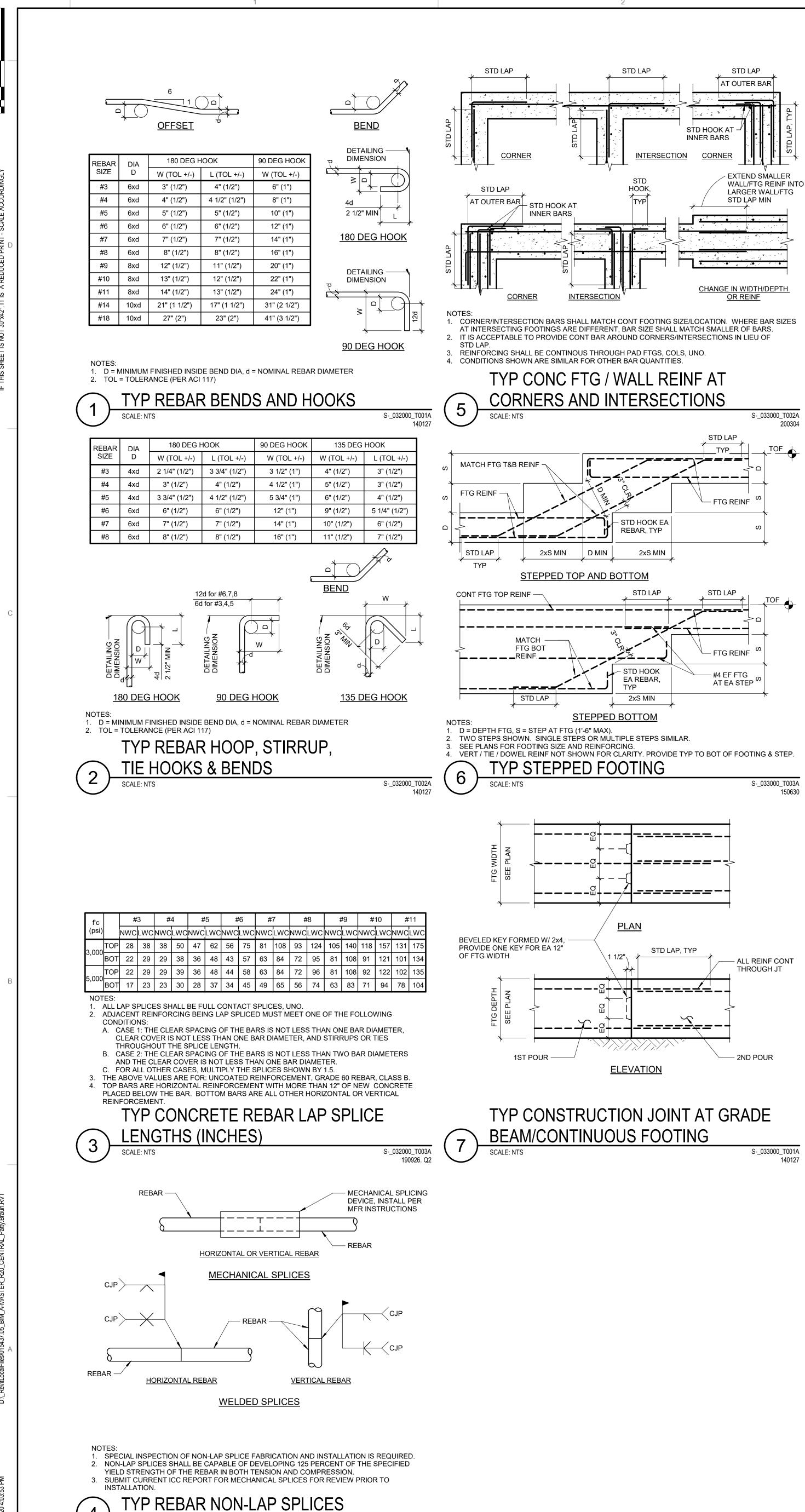
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10/15/2020 4:03:49 PM D:_RevitLocalFiles\015437.05_BIM_A-MASTER_R20_CENTRAL_Patty.Braun.RVT BLUEBEAM CORRECTIONS MADE 10/27/2020 >>			
10/15/ BLUI			







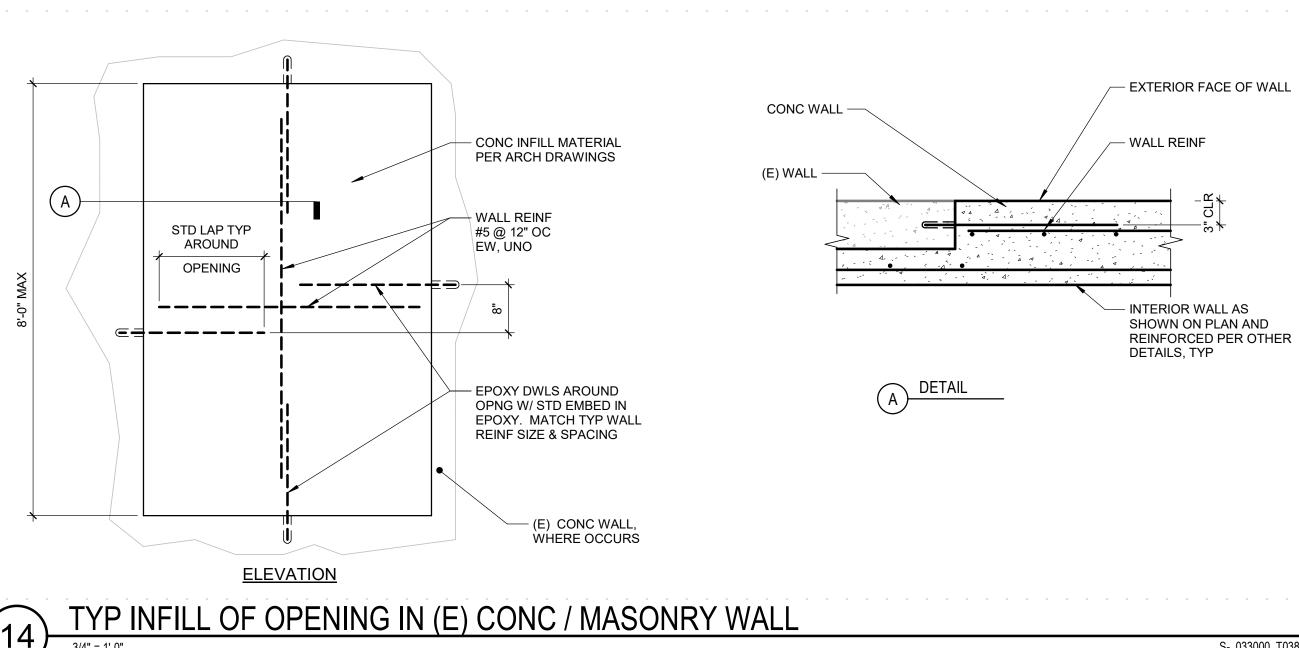


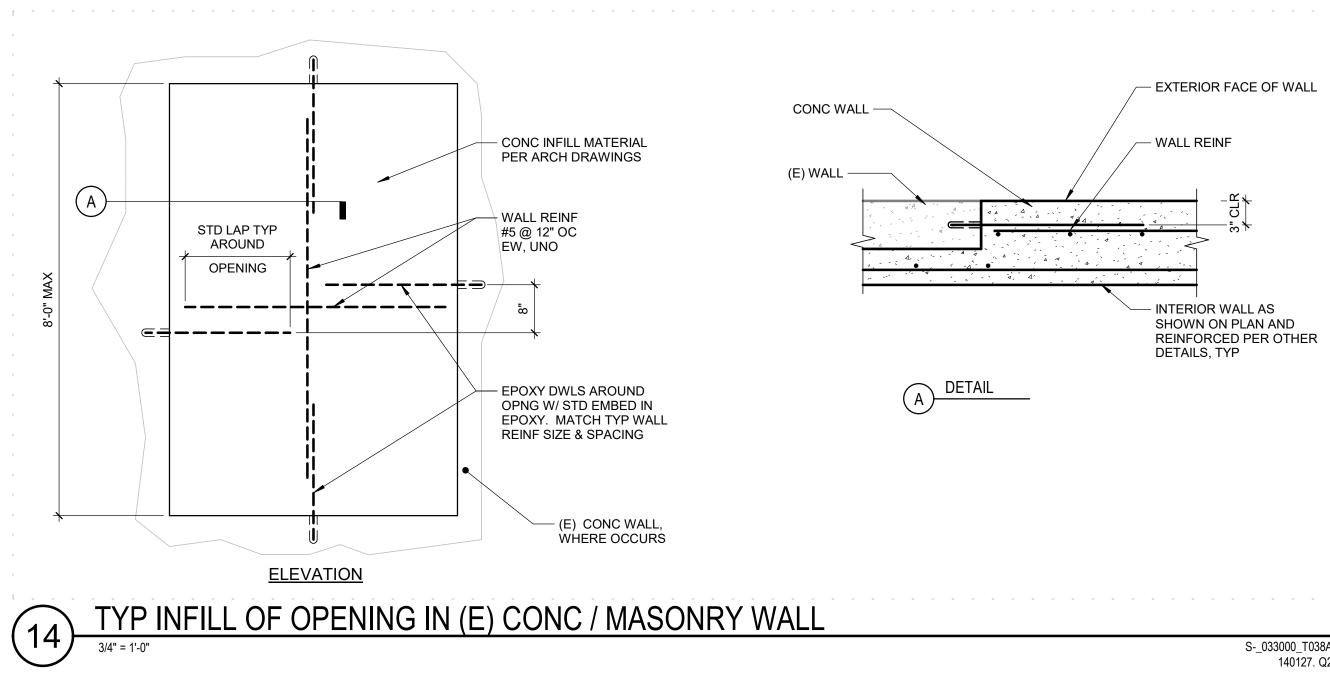
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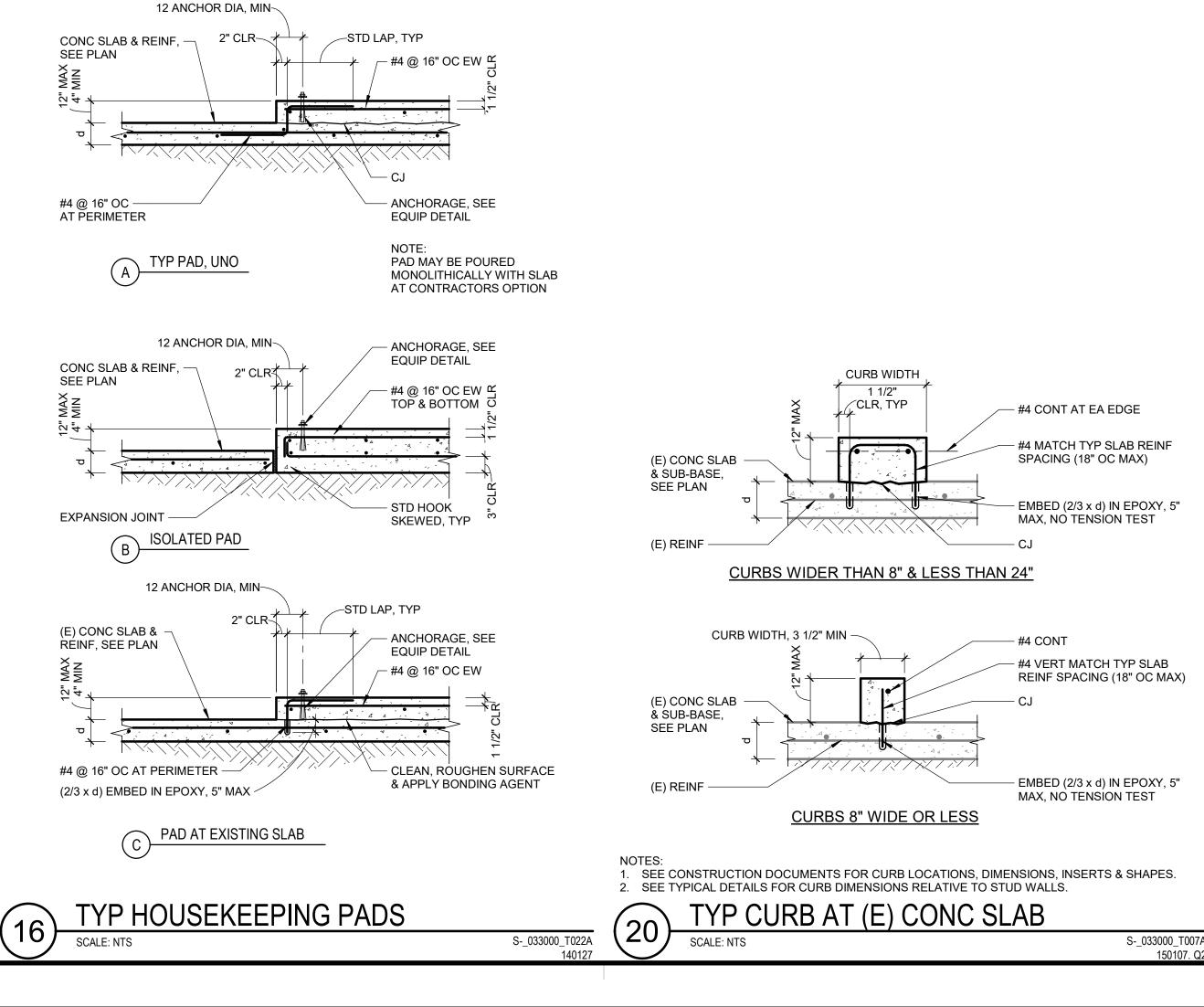
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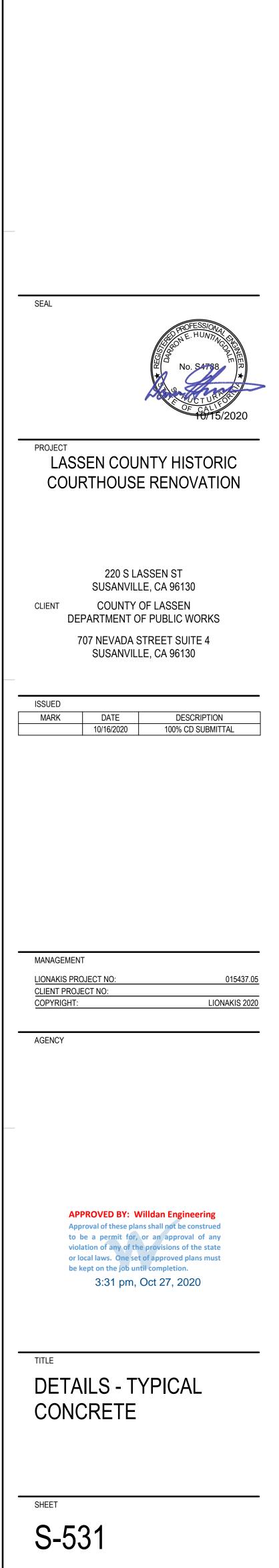




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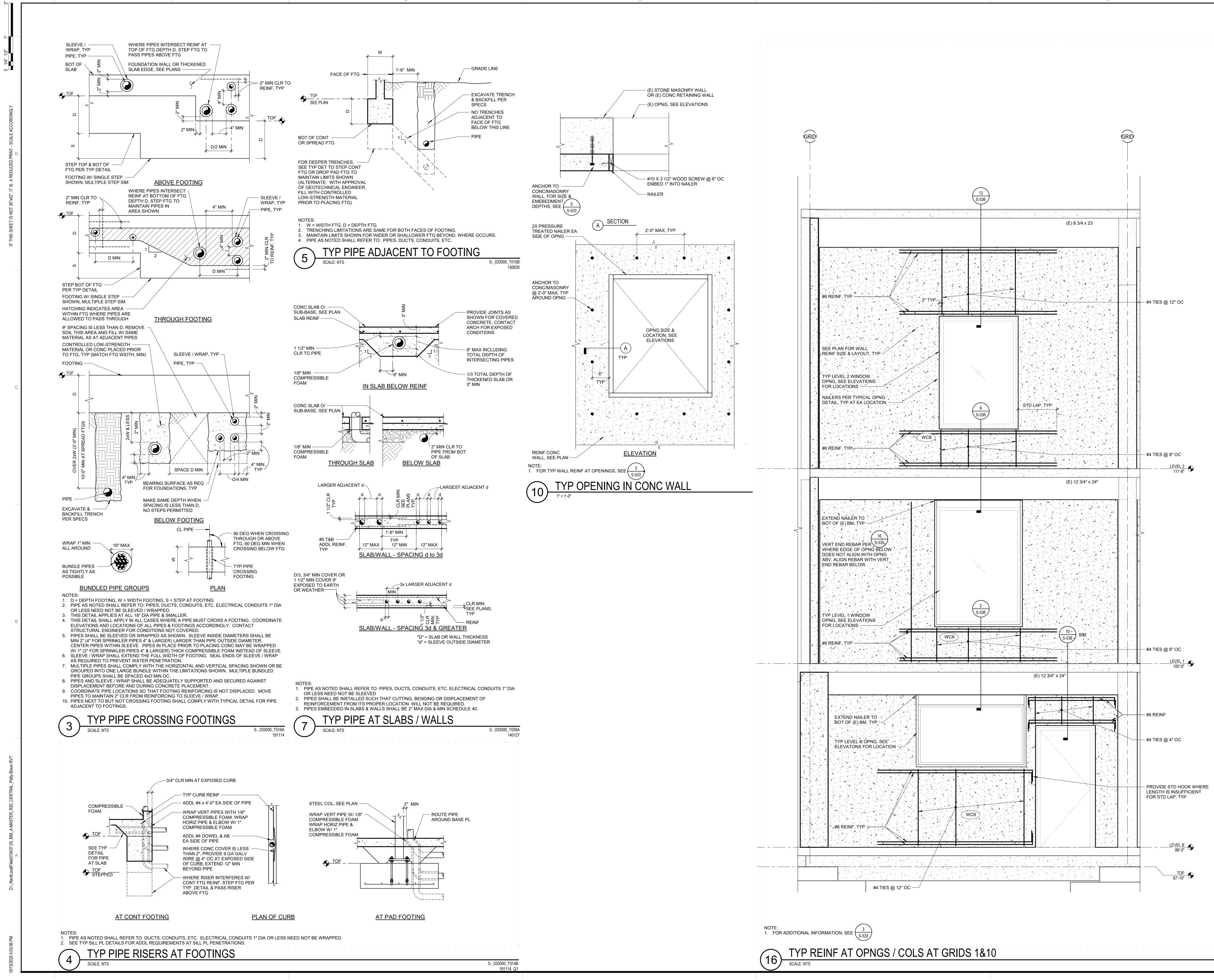


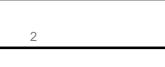
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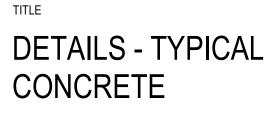
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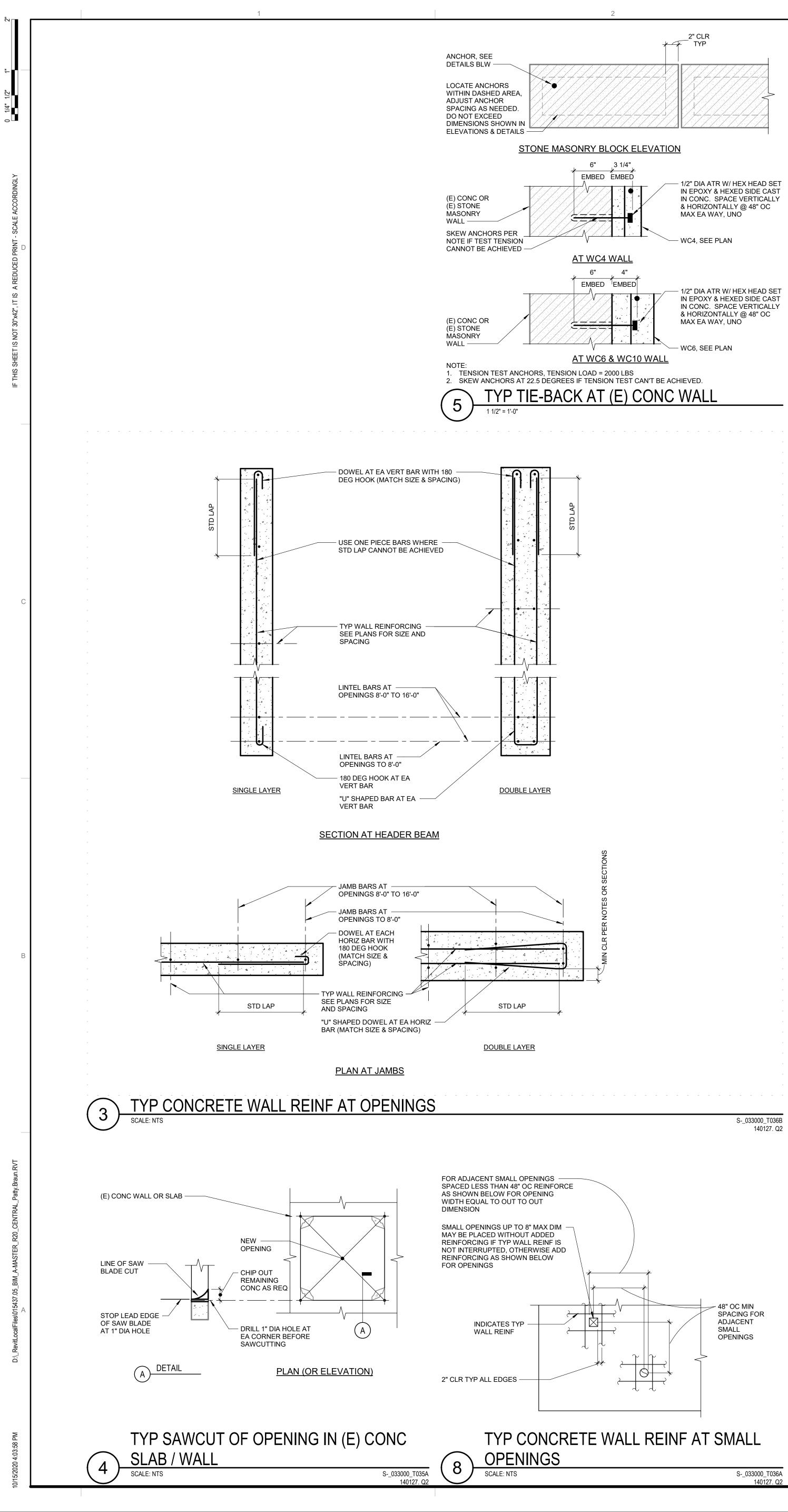
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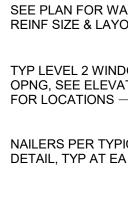




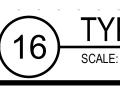


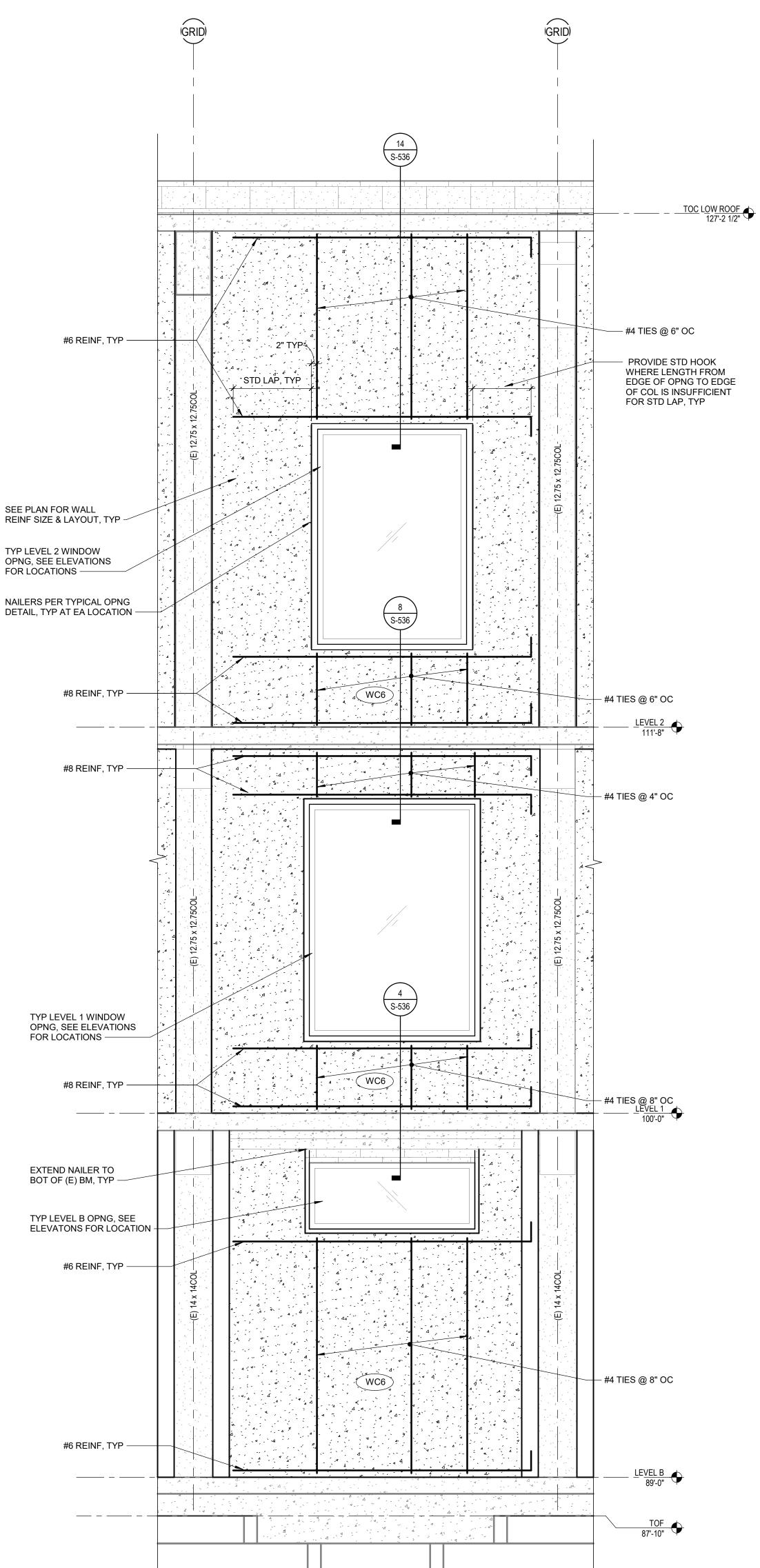




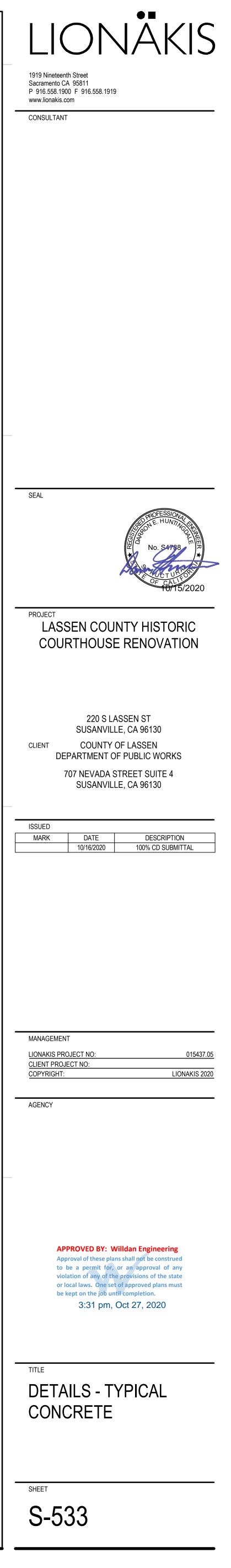


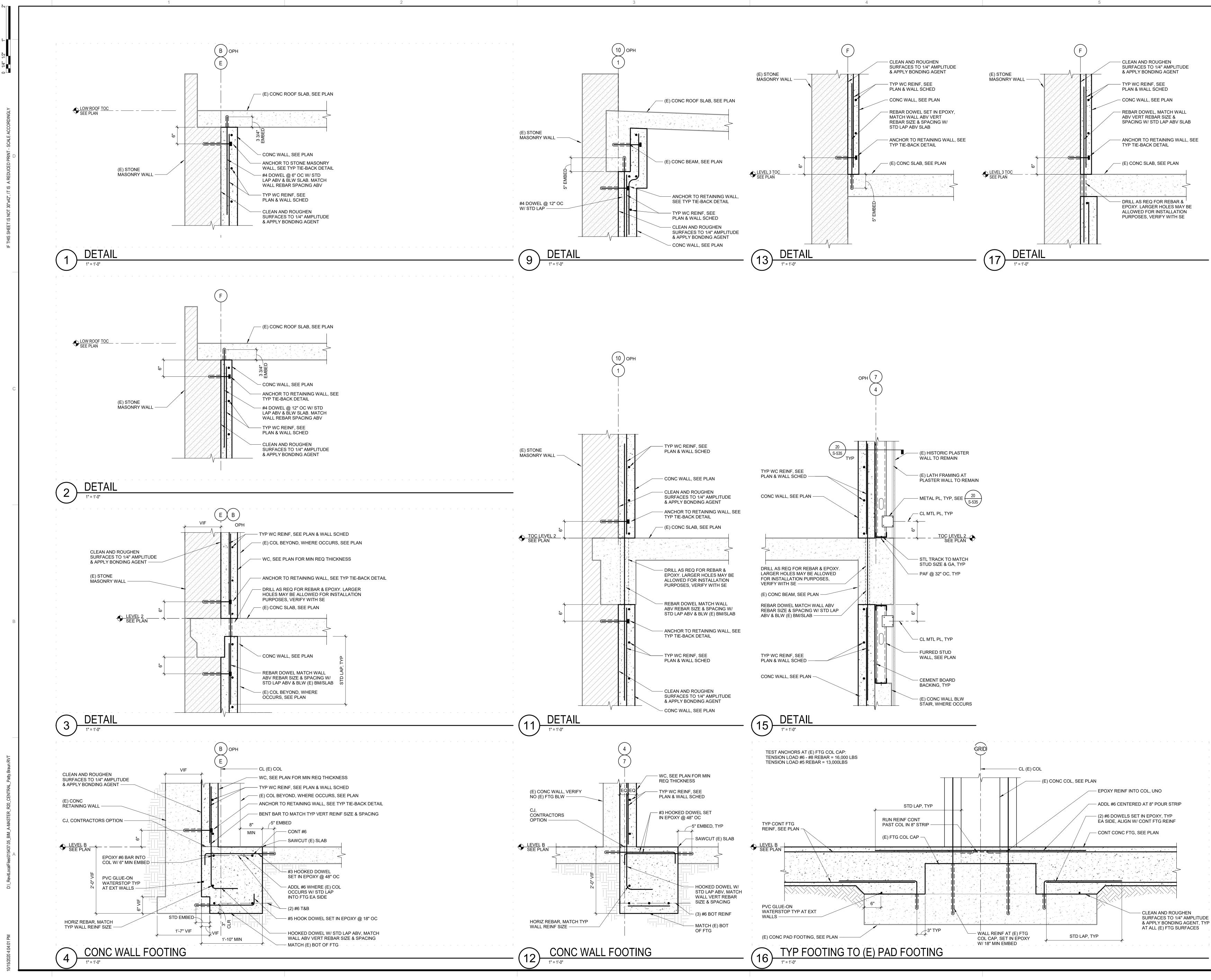
NOTE: 1. FOR ADDITIONAL INFORMATION, SEE 3





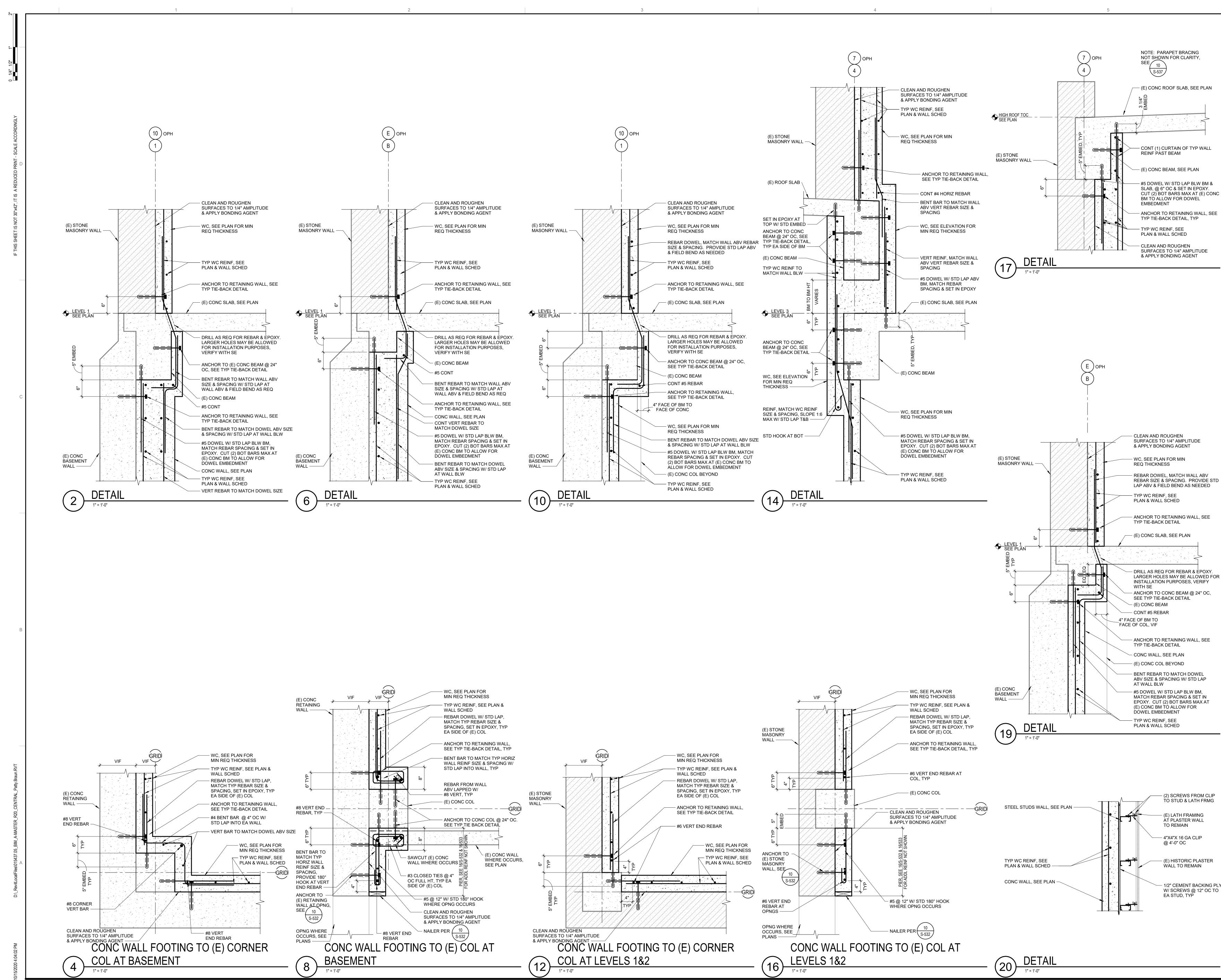
∖S-533 16 TYP REINF AT OPNGS / COLS AT GRIDS B&E

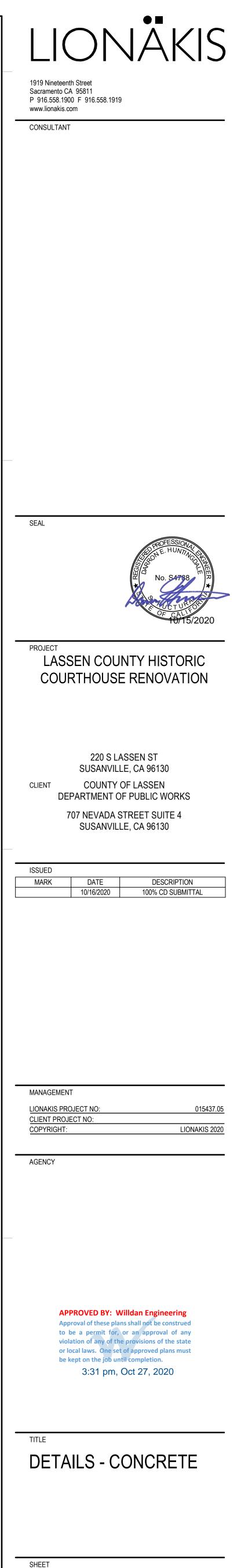




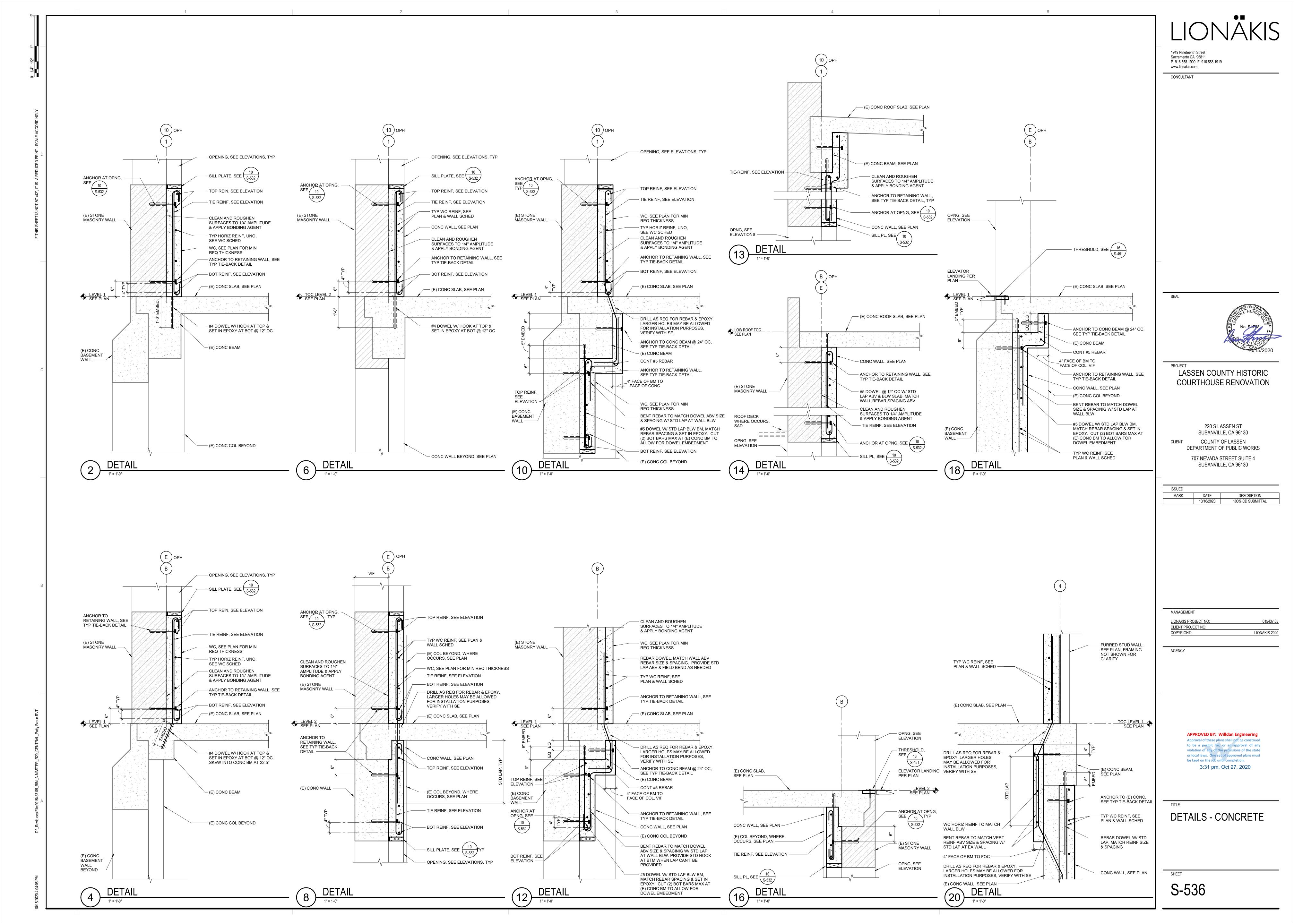


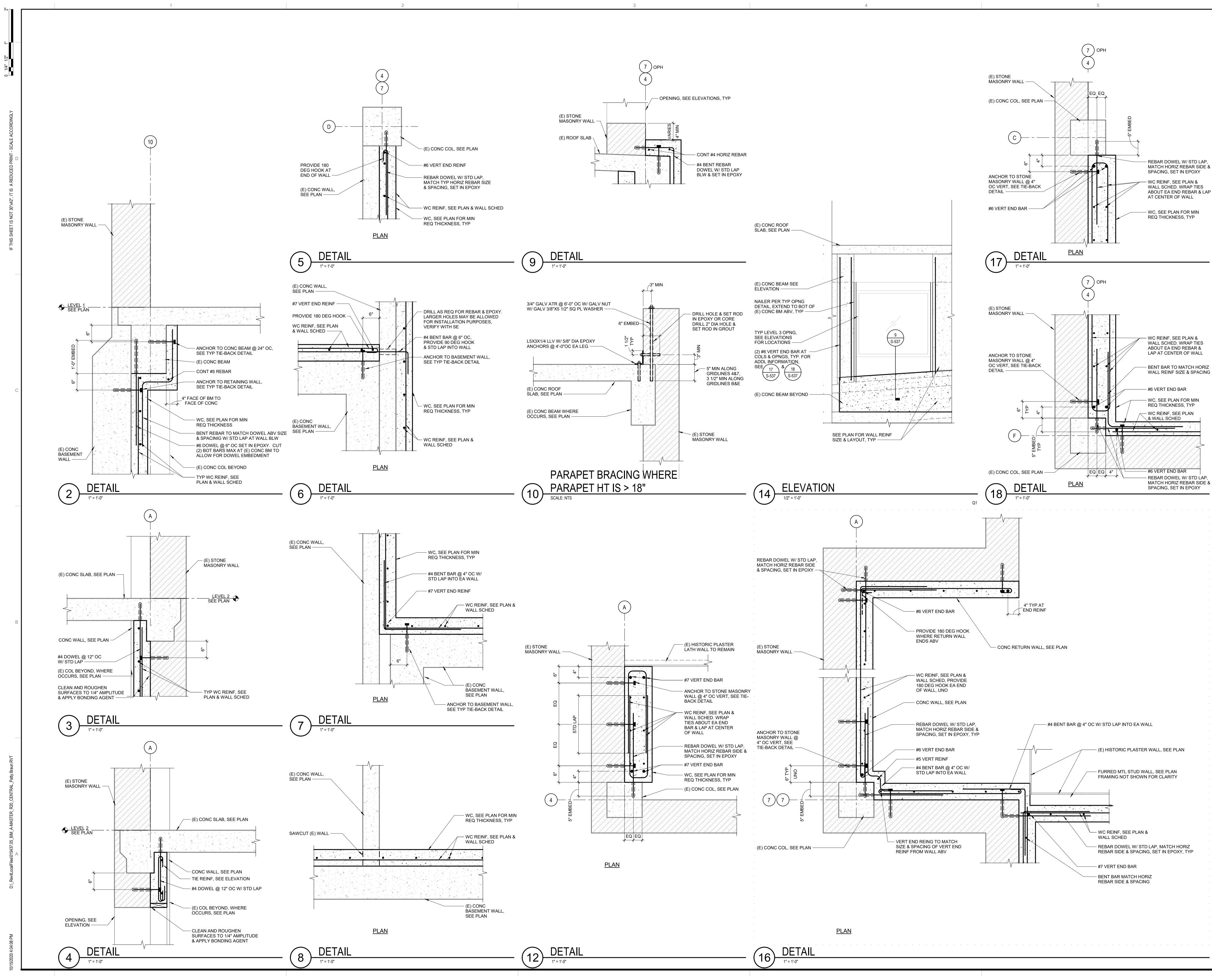
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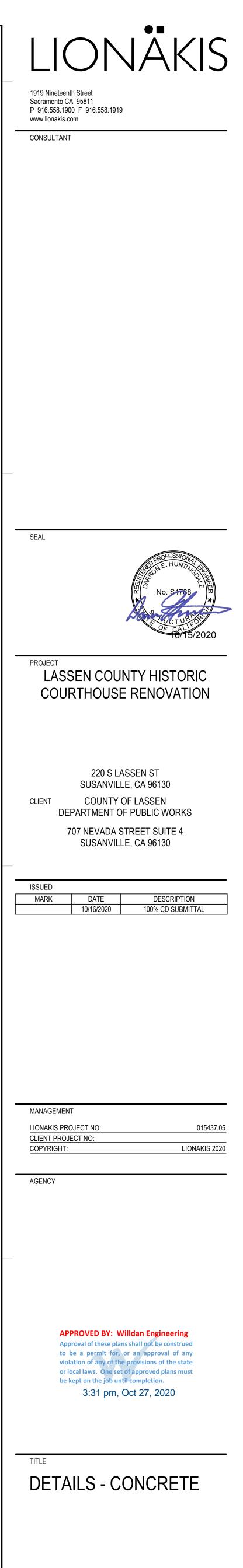




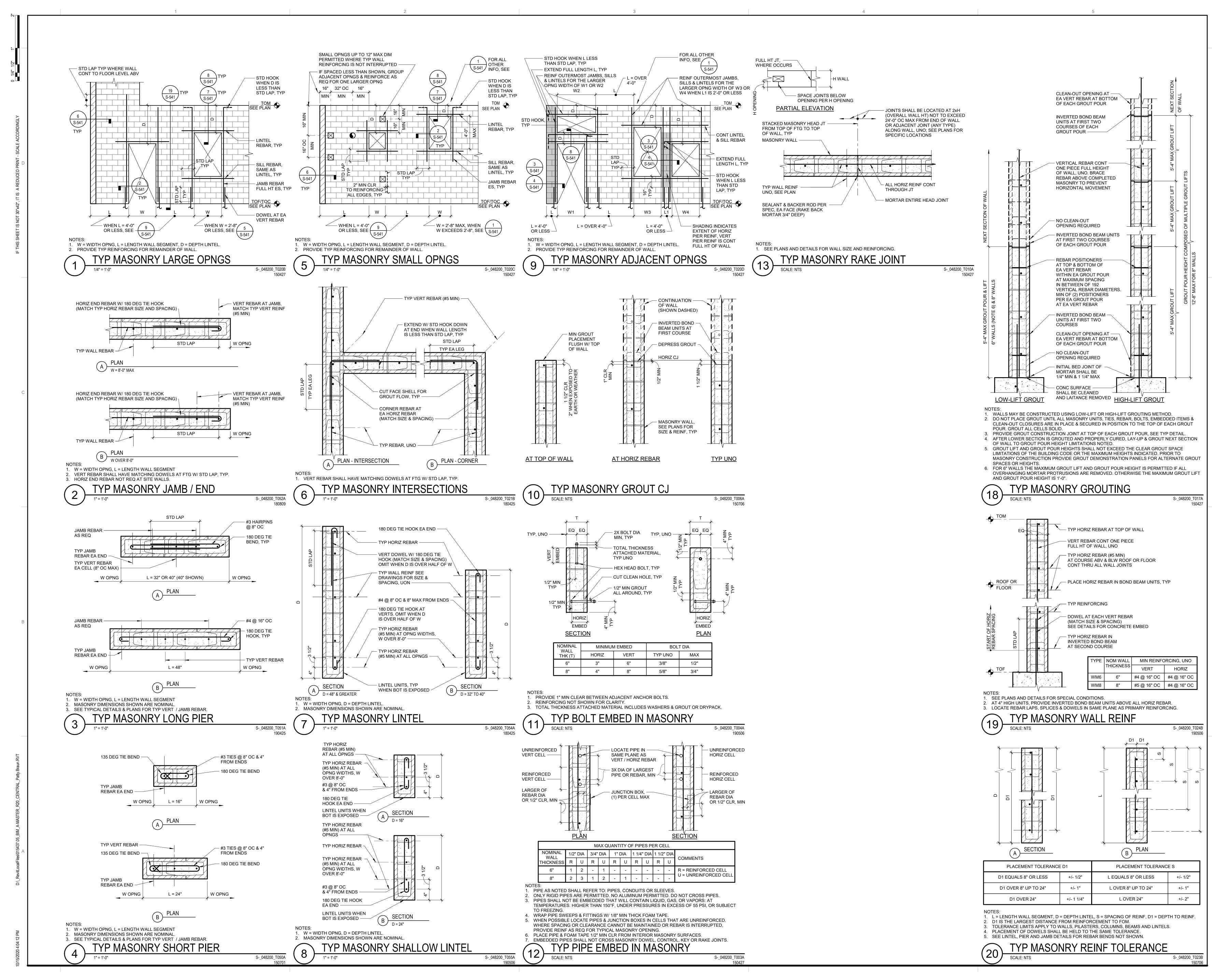
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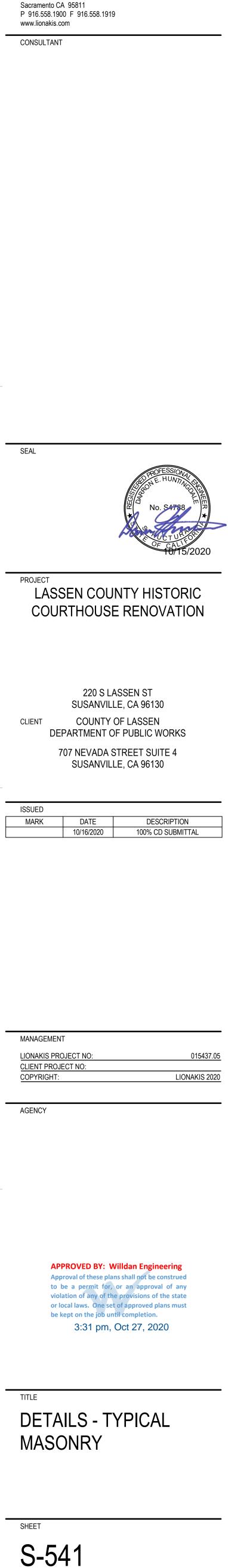




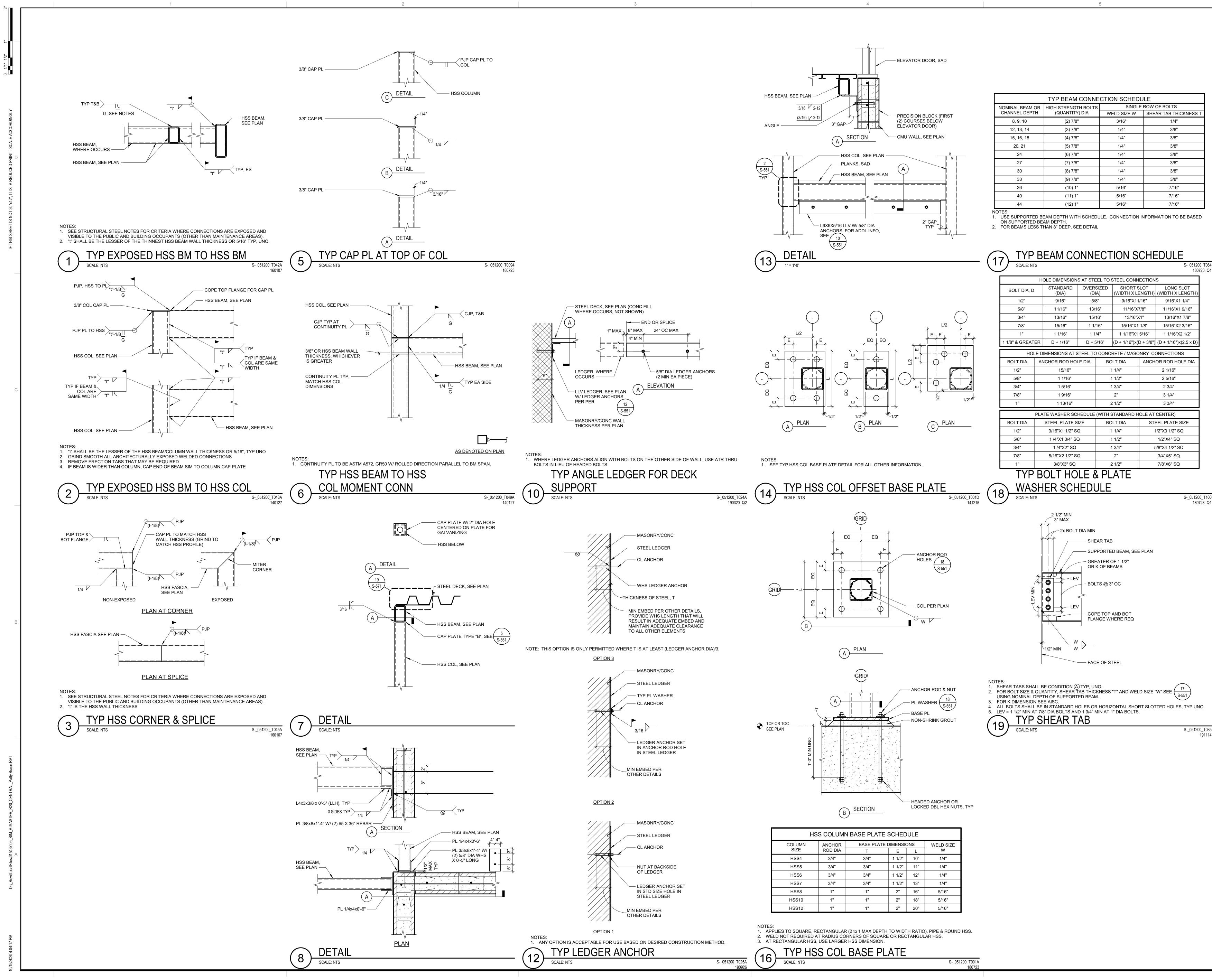


SHEET S-537





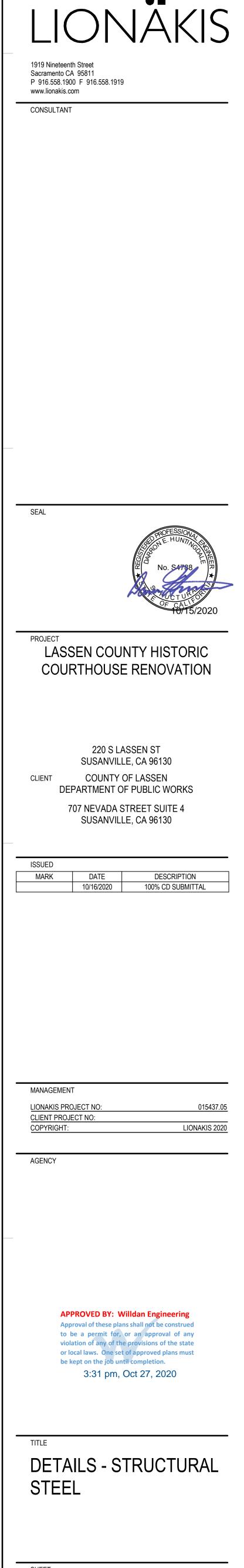
1919 Nineteenth Street



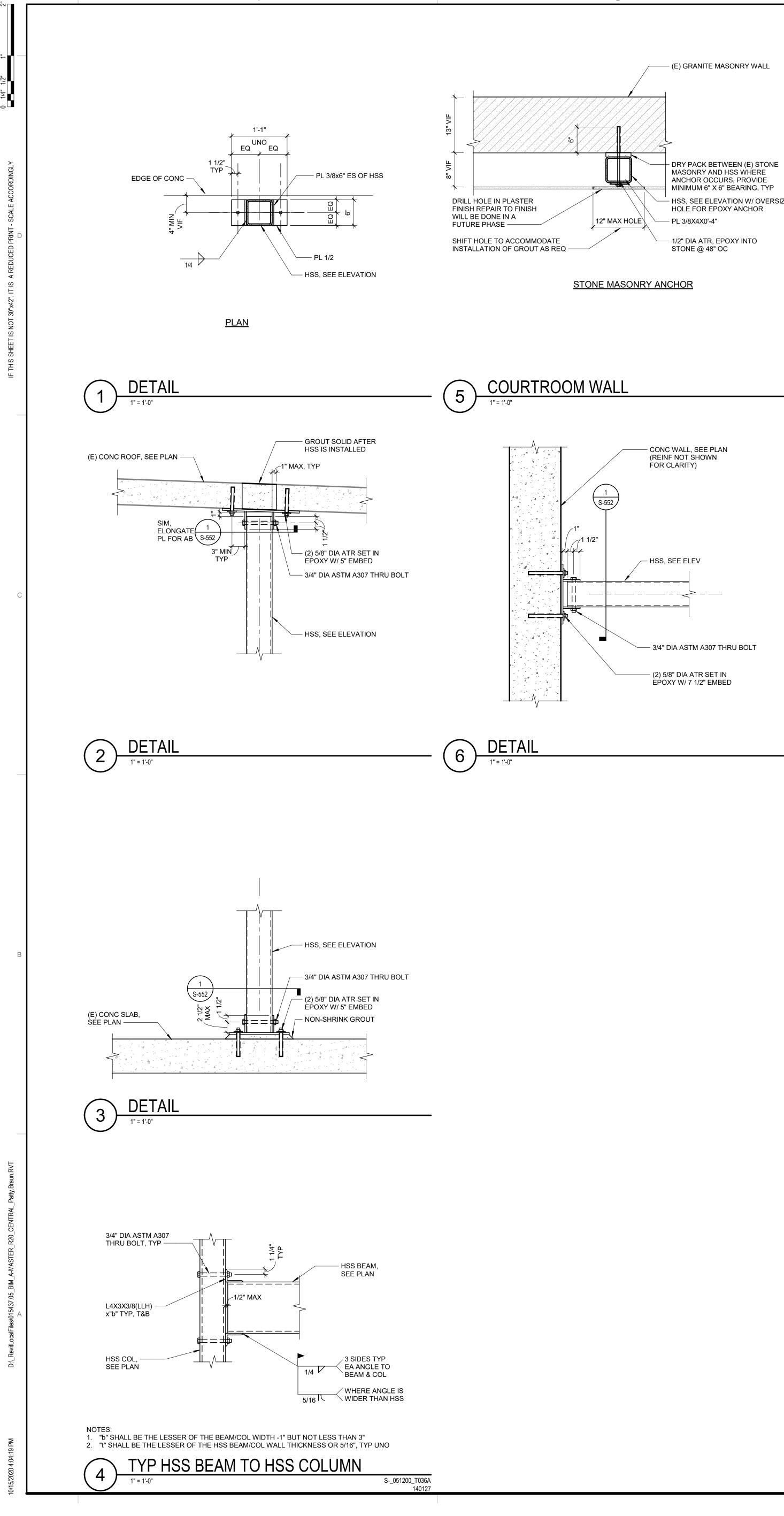
	TYP BEAM CONNEG	CTION SCHED	JLE
NOMINAL BEAM OR	HIGH STRENGTH BOLTS	SINGLE	ROW OF BOLTS
CHANNEL DEPTH	(QUANTITY) DIA	WELD SIZE W	SHEAR TAB THICKNESS T
8, 9, 10	(2) 7/8"	3/16"	1/4"
12, 13, 14	(3) 7/8"	1/4"	3/8"
15, 16, 18	(4) 7/8"	1/4"	3/8"
20, 21	(5) 7/8"	1/4"	3/8"
24	(6) 7/8"	1/4"	3/8"
27	(7) 7/8"	1/4"	3/8"
30	(8) 7/8"	1/4"	3/8"
33	(9) 7/8"	1/4"	3/8"
36	(10) 1"	5/16"	7/16"
40	(11) 1"	5/16"	7/16"
44	(12) 1"	5/16"	7/16"

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	HOLE DIMENSION	IS AT STE	EEL TO	STEEL CONN	ECTION	S
BOLT DIA, D	STANDARD (DIA)	OVER (DI		SHORT S (WIDTH X LE		LONG SLOT (WIDTH X LENGTH)
1/2"	9/16"	5/3	8"	9/16"X11	/16"	9/16"X1 1/4"
5/8"	11/16"	13/	16"	11/16"X	7/8"	11/16"X1 9/16"
3/4"	13/16"	15/	16"	13/16"X1" 13/16"X		13/16"X1 7/8"
7/8"	15/16"	1 1/	16"	15/16"X1 1/8"		15/16"X2 3/16"
1"	1 1/16"	11	/4"	1 1/16"X1 5/16"		1 1/16"X2 1/2"
1 1/8" & GREATE	ER D + 1/16"	D + 5	5/16"	(D + 1/16")x(D + 3/8") (D + 1/1		(D + 1/16")x(2.5 x D)
HOLI	E DIMENSIONS AT S	STEEL TO	CONC	RETE / MASC	NRY CO	ONNECTIONS
BOLT DIA	ANCHOR ROD HOLE DIA		BC	DLT DIA	ANCH	OR ROD HOLE DIA
1/2"	15/16"	15/16"		1 1/4"		2 1/16"
5/8"	1 1/16"	1 1/16"		1 1/2"		2 5/16"
3/4"	1 5/16"	1 5/16"		1 3/4"		2 3/4"
7/8"	1 9/16"			2"		3 1/4"
1"	1 13/16"		2	2 1/2"		3 3/4"
F	PLATE WASHER SC	HEDULE	(WITH S	STANDARD H	OLE AT	CENTER)
BOLT DIA	STEEL PLATE S	SIZE	BC	DLT DIA	STE	EEL PLATE SIZE
1/2"	3/16"X1 1/2" S	Q		1 1/4"	1	I/2"X3 1/2" SQ
5/8"	1 /4"X1 3/4" S	Q	-	1 1/2"		1/2"X4" SQ
3/4"	1 /4"X2" SQ			1 3/4"	5	5/8"X4 1/2" SQ
7/8"	5/16"X2 1/2" S	Q		2"		3/4"X5" SQ
1"	3/8"X3" SQ		2	2 1/2"		7/8"X6" SQ

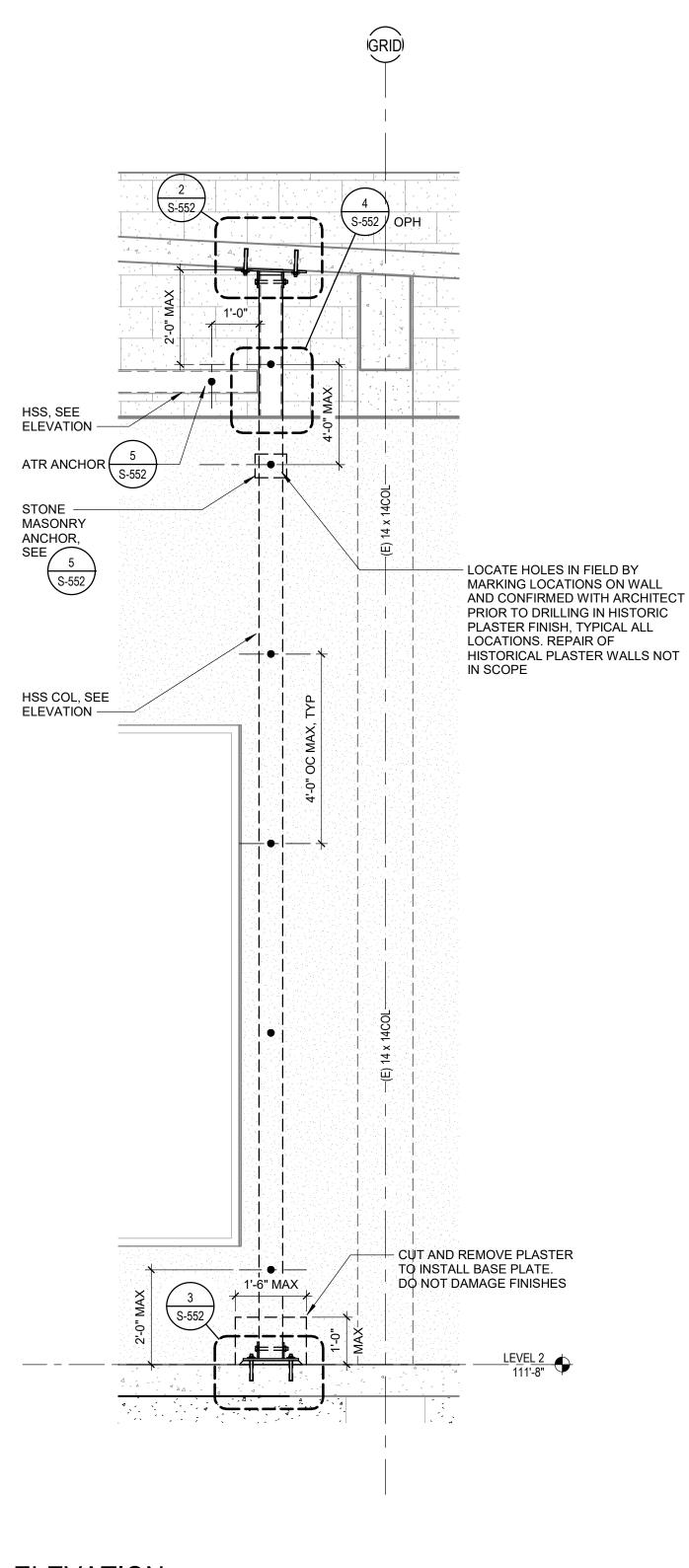
HSS COLUMN BASE PLATE SCHEDULE					
MN	ANCHOR	BASE PLATE DIMENSIONS			WELD SIZE
E	ROD DIA	Т	E	L	W
64	3/4"	3/4"	1 1/2"	10"	1/4"
\$5	3/4"	3/4"	1 1/2"	11"	1/4"
6	3/4"	3/4"	1 1/2"	12"	1/4"
67	3/4"	3/4"	1 1/2"	13"	1/4"
88	1"	1"	2"	16"	5/16"
10	1"	1"	2"	18"	5/16"
12	1"	1"	2"	20"	5/16"



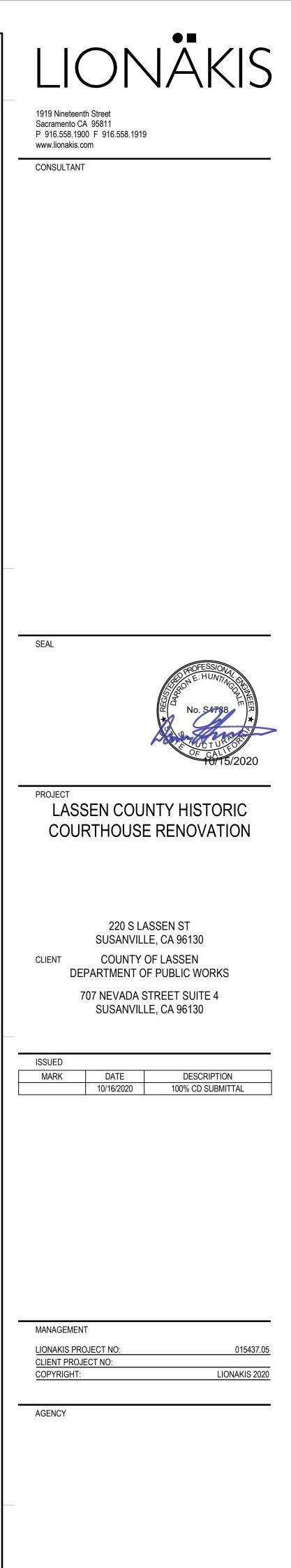
SHEET S-551



- HSS, SEE ELEVATION W/ OVERSIZED

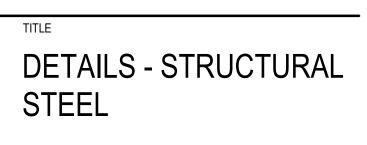






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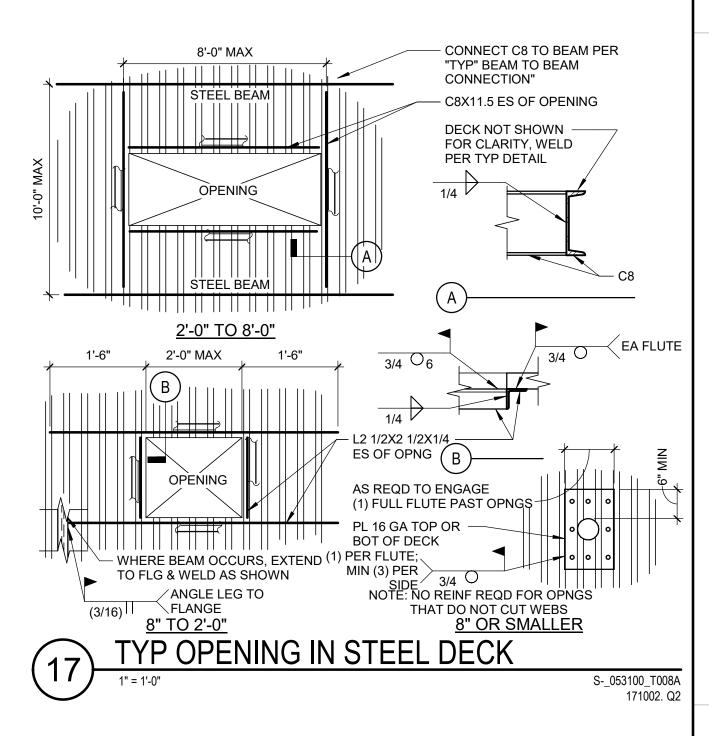


SHEET S-552

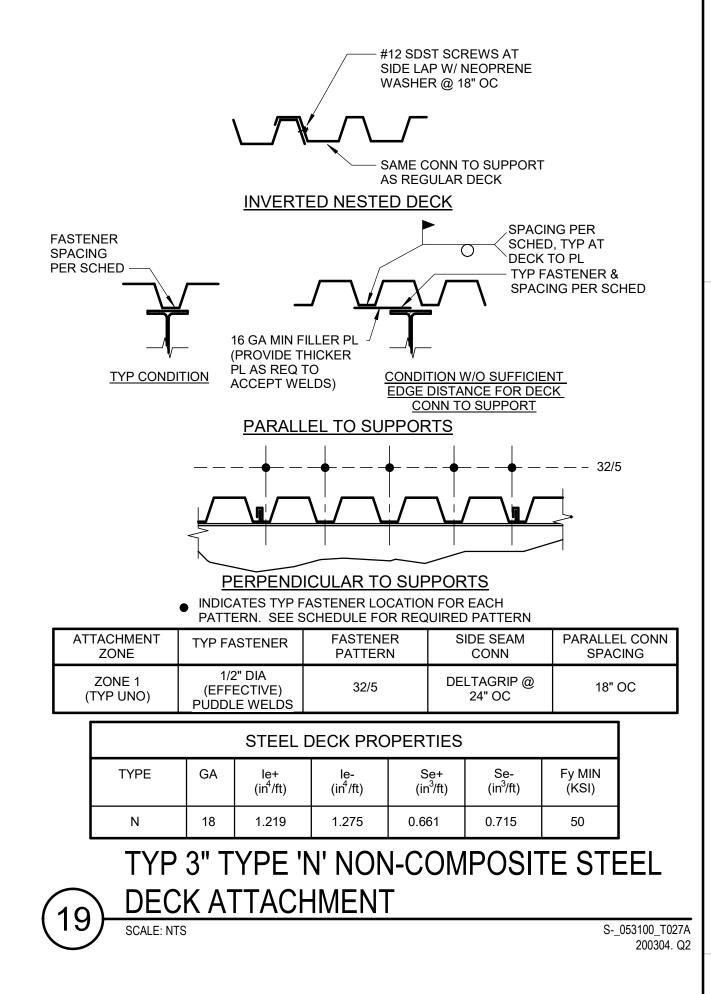
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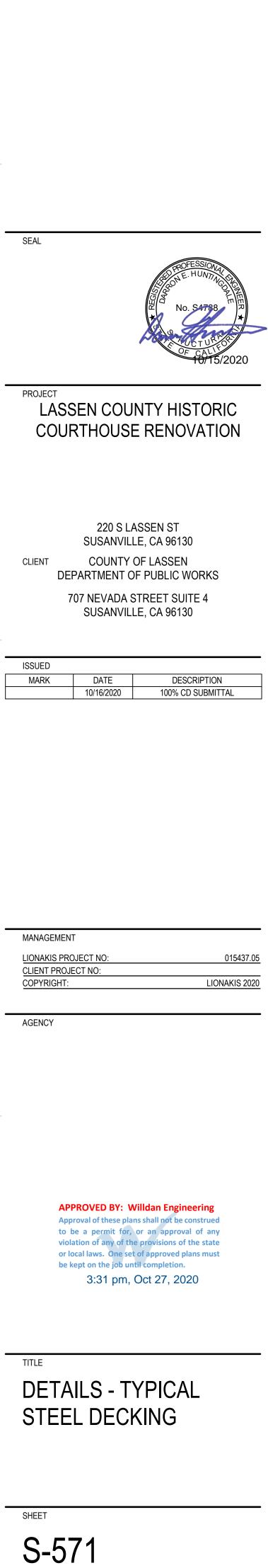
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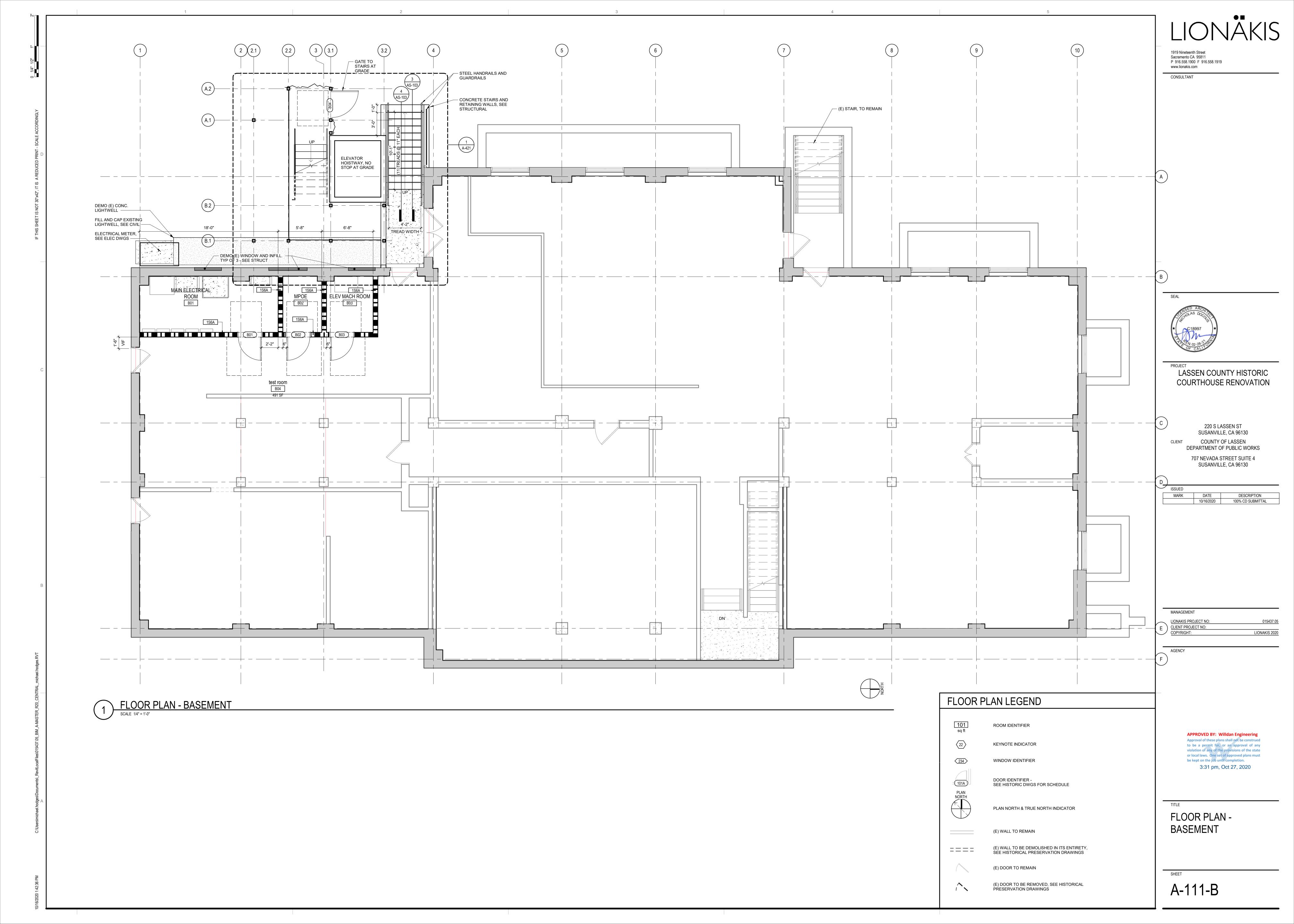
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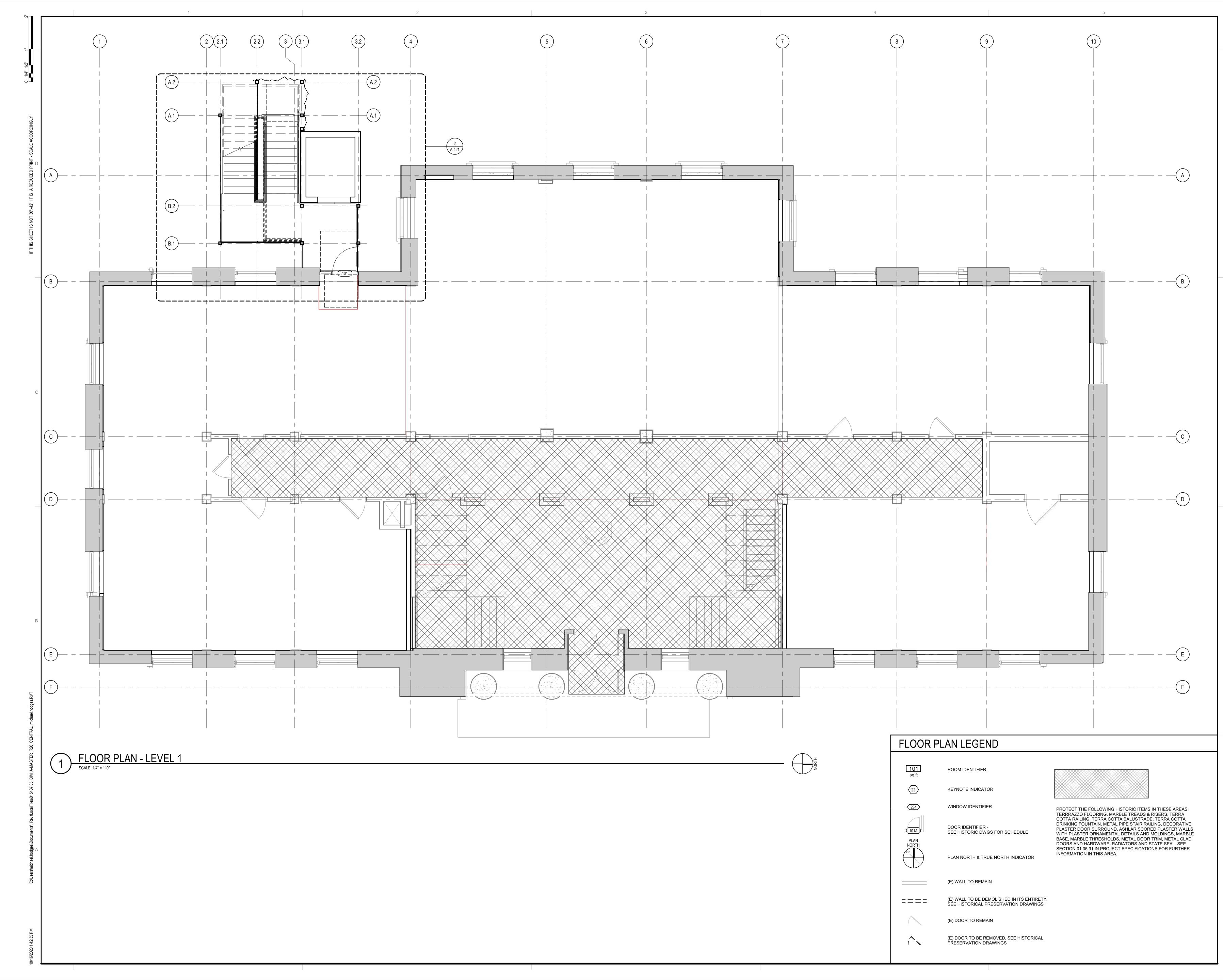


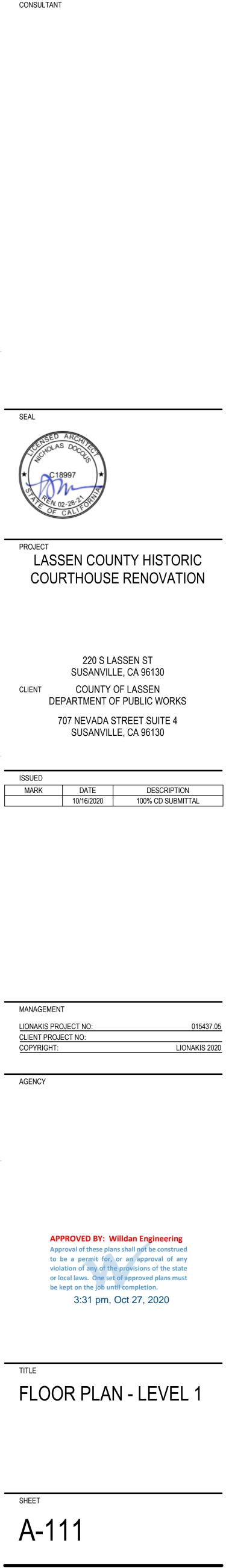


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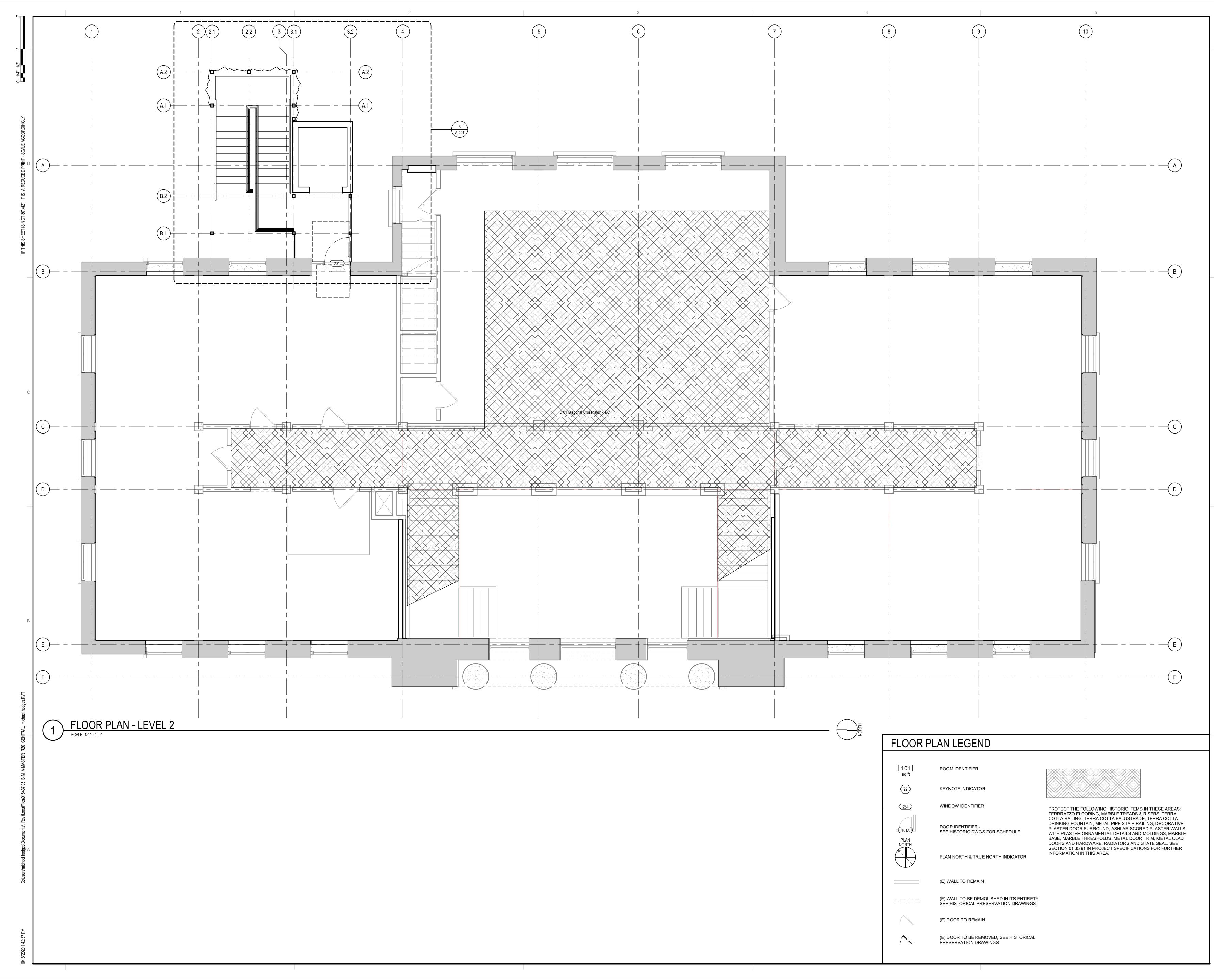




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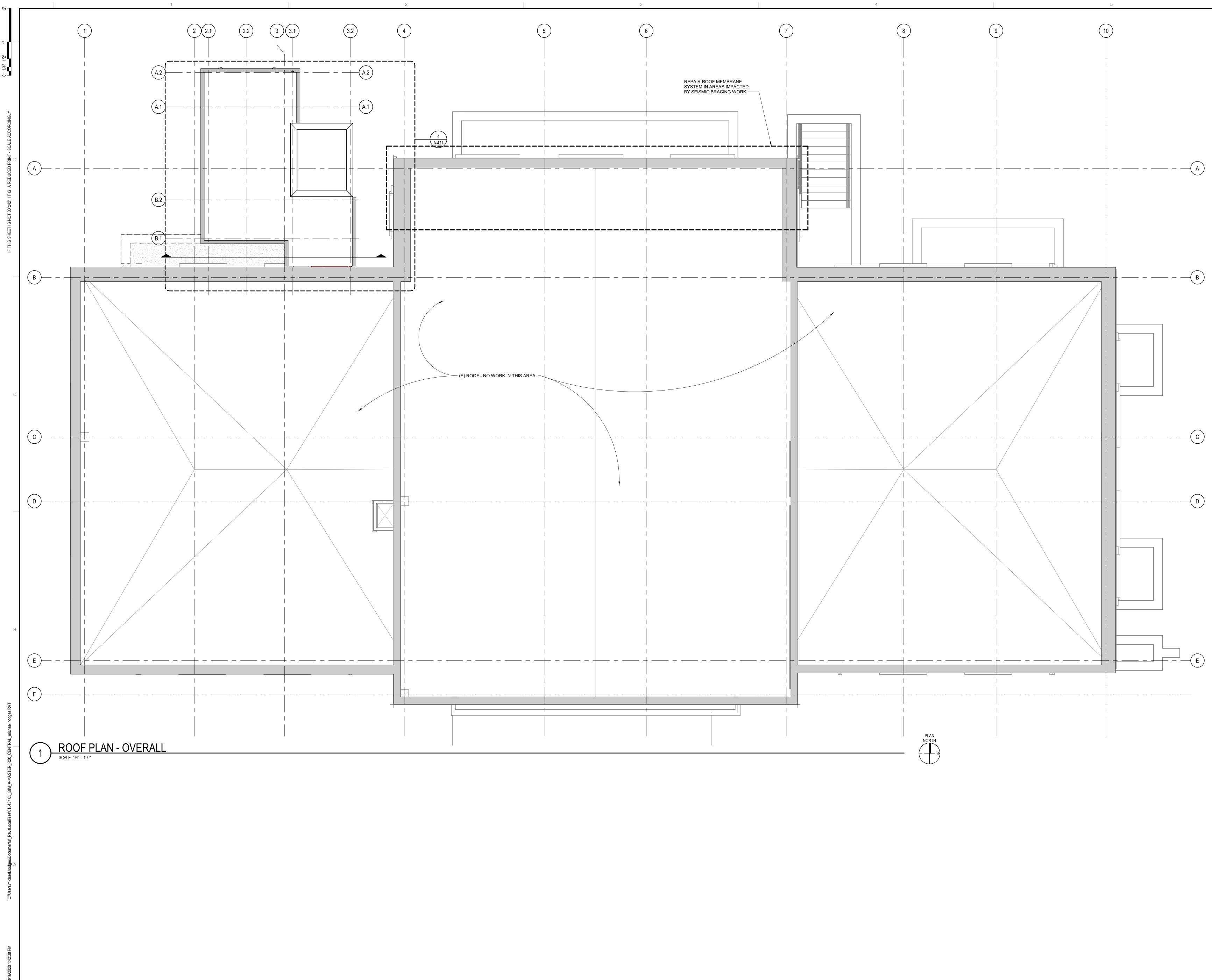
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<mark>А</mark> Г Ар	proval of these plans	Ildan Engineering			
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LASSEN COUNTY HISTORIC
COURTHOUSE RENOVATION
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SUSANVILLE, CA 96130
CLIENT COUNTY OF LASSEN
DEPARTMENT OF PUBLIC WORKS
707 NEVADA STREET SUITE 4
SUSANVILLE, CA 96130
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MANAGEMENT
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CLIENT PROJECT NO: COPYRIGHT: LIONAKIS 2020
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violation of any of the provisions of the state or local laws. One set of approved plans must
be kept on the job until completion.
3:31 pm, Oct 27, 2020
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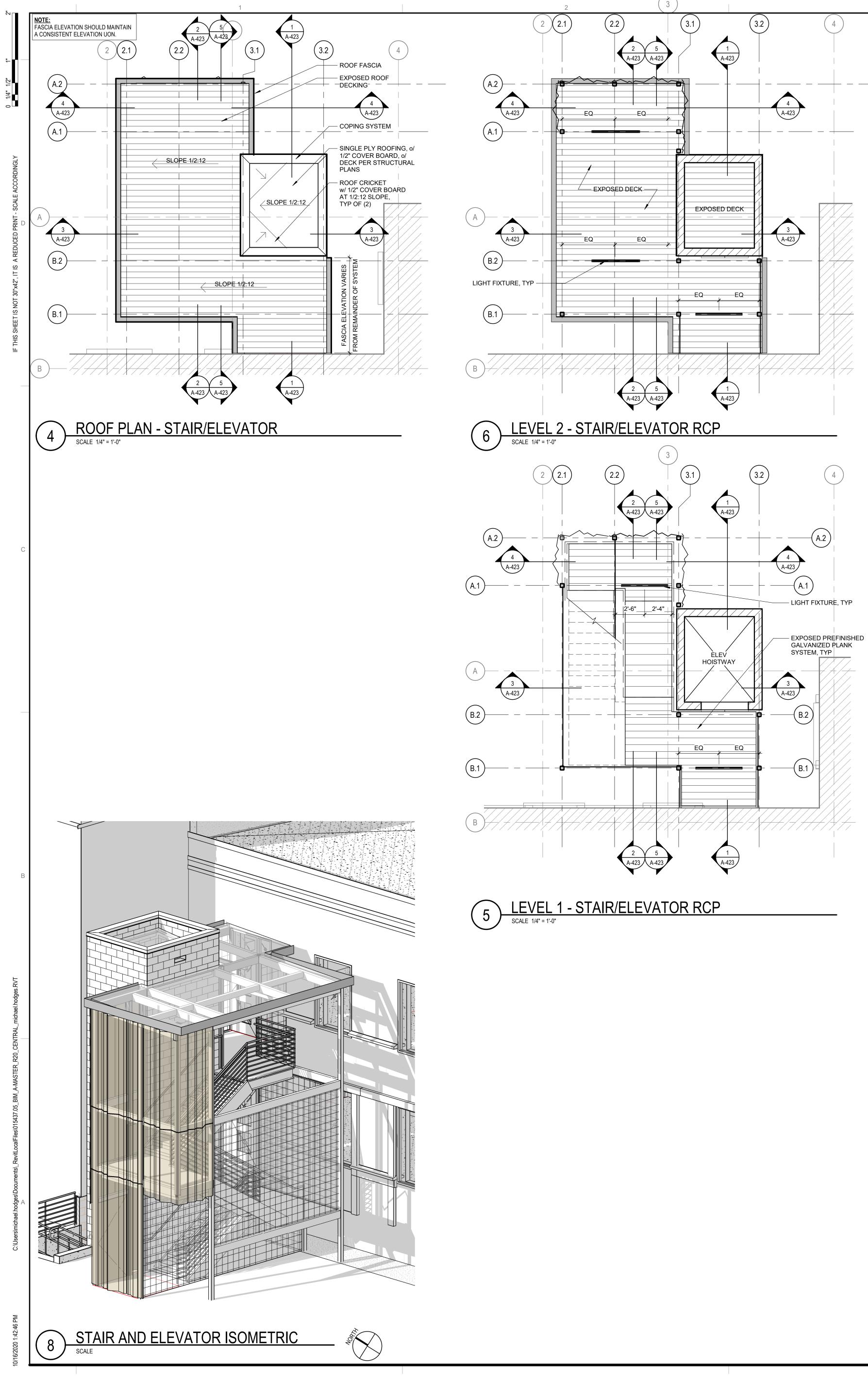
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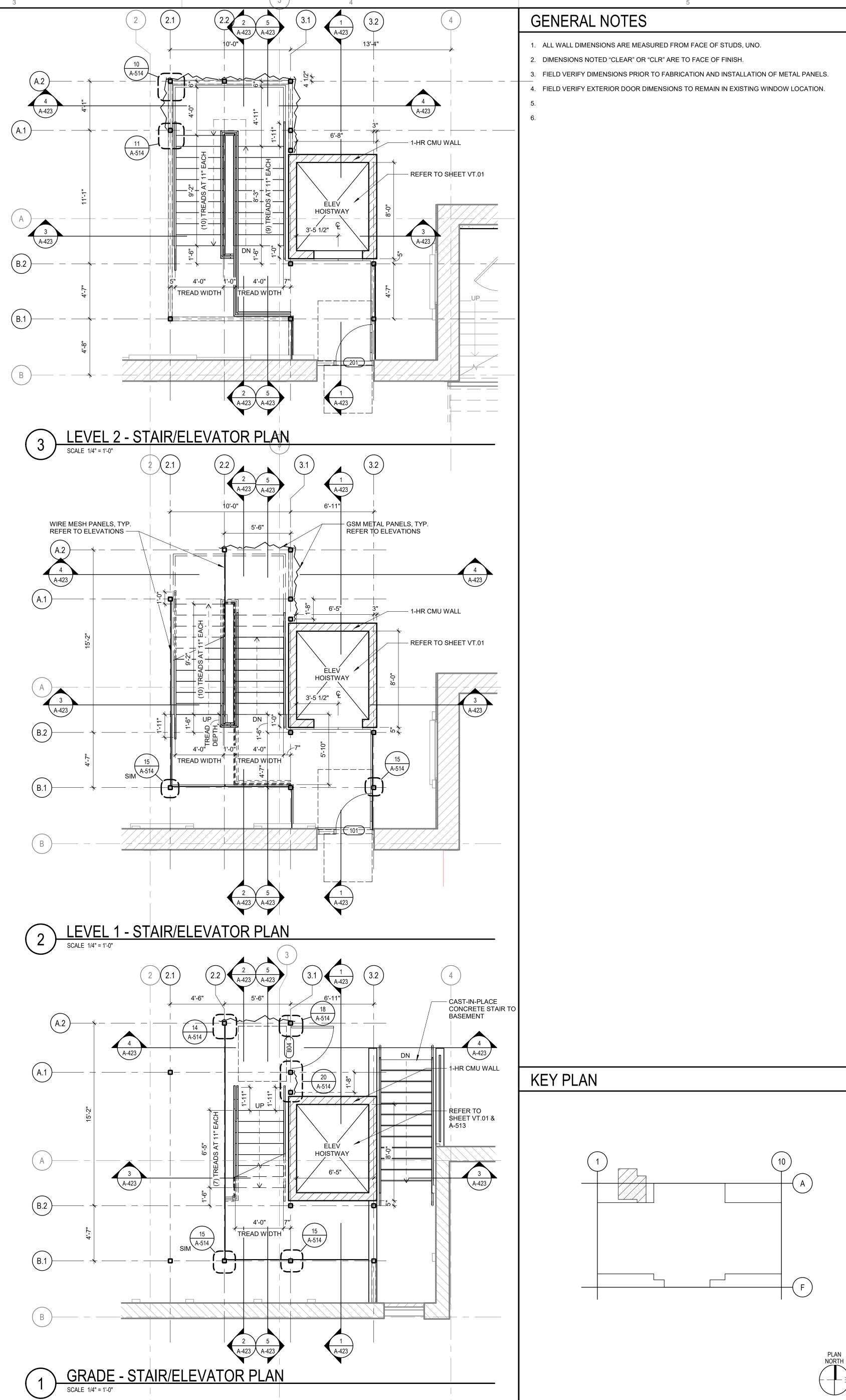
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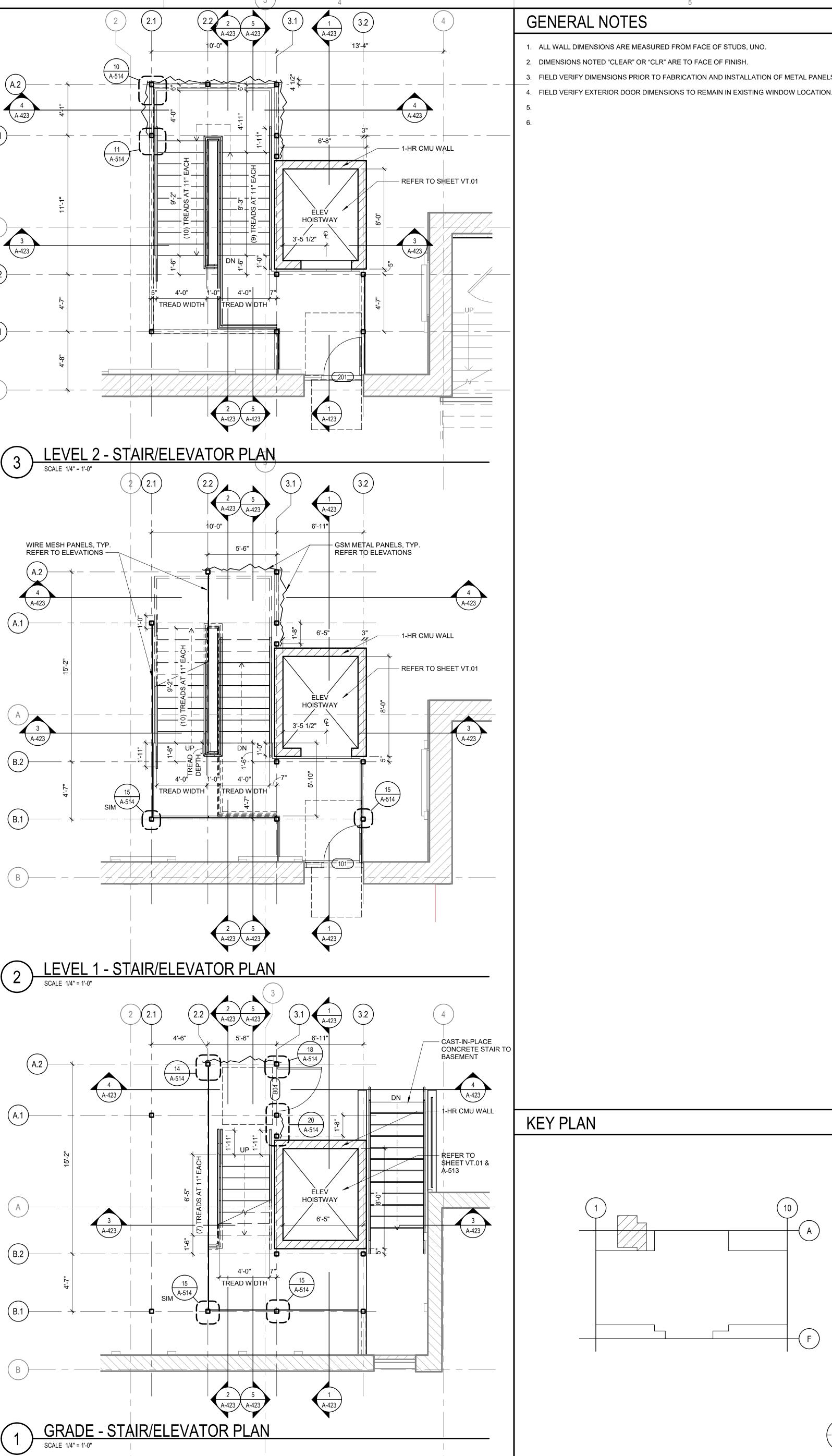
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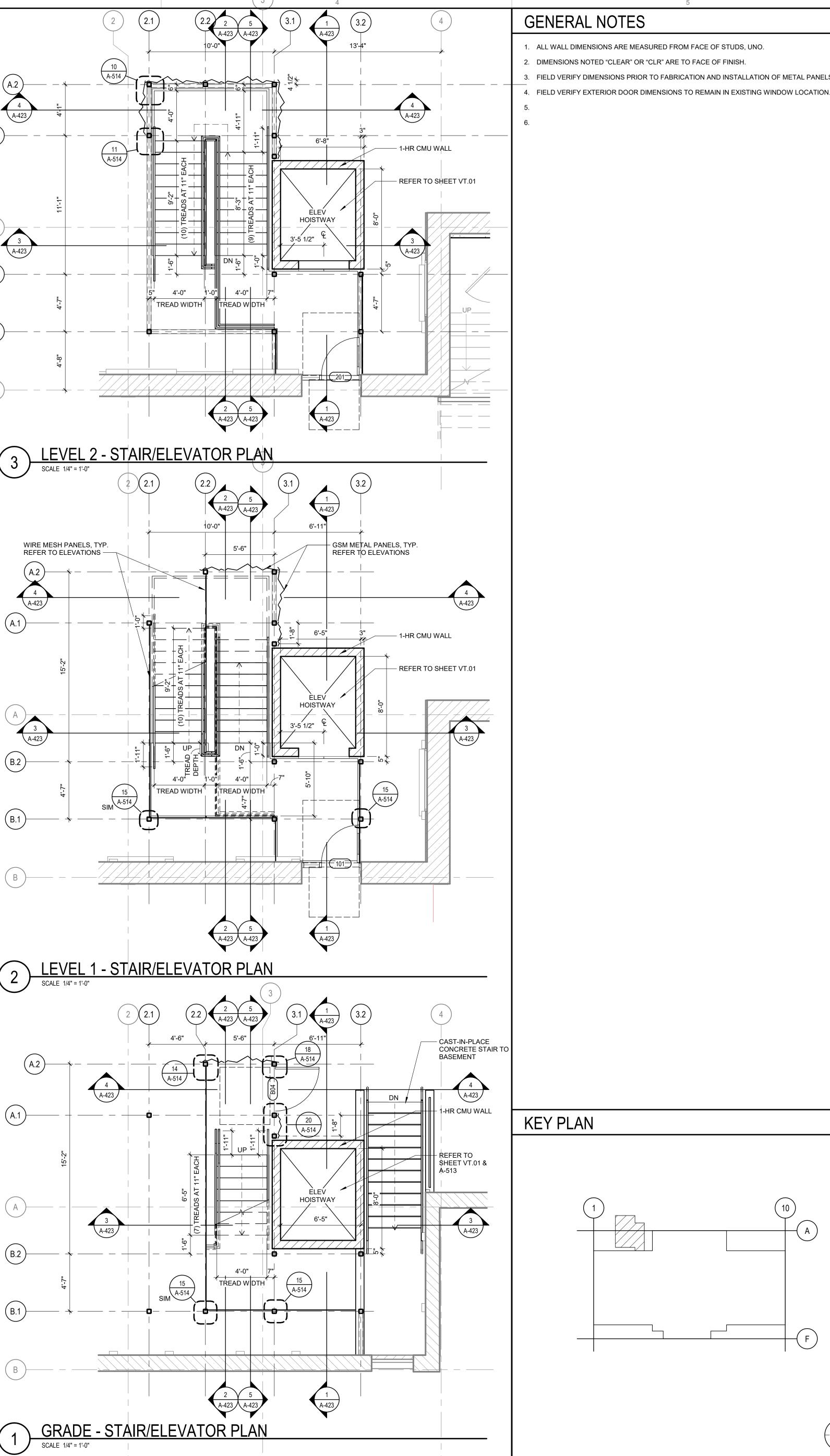
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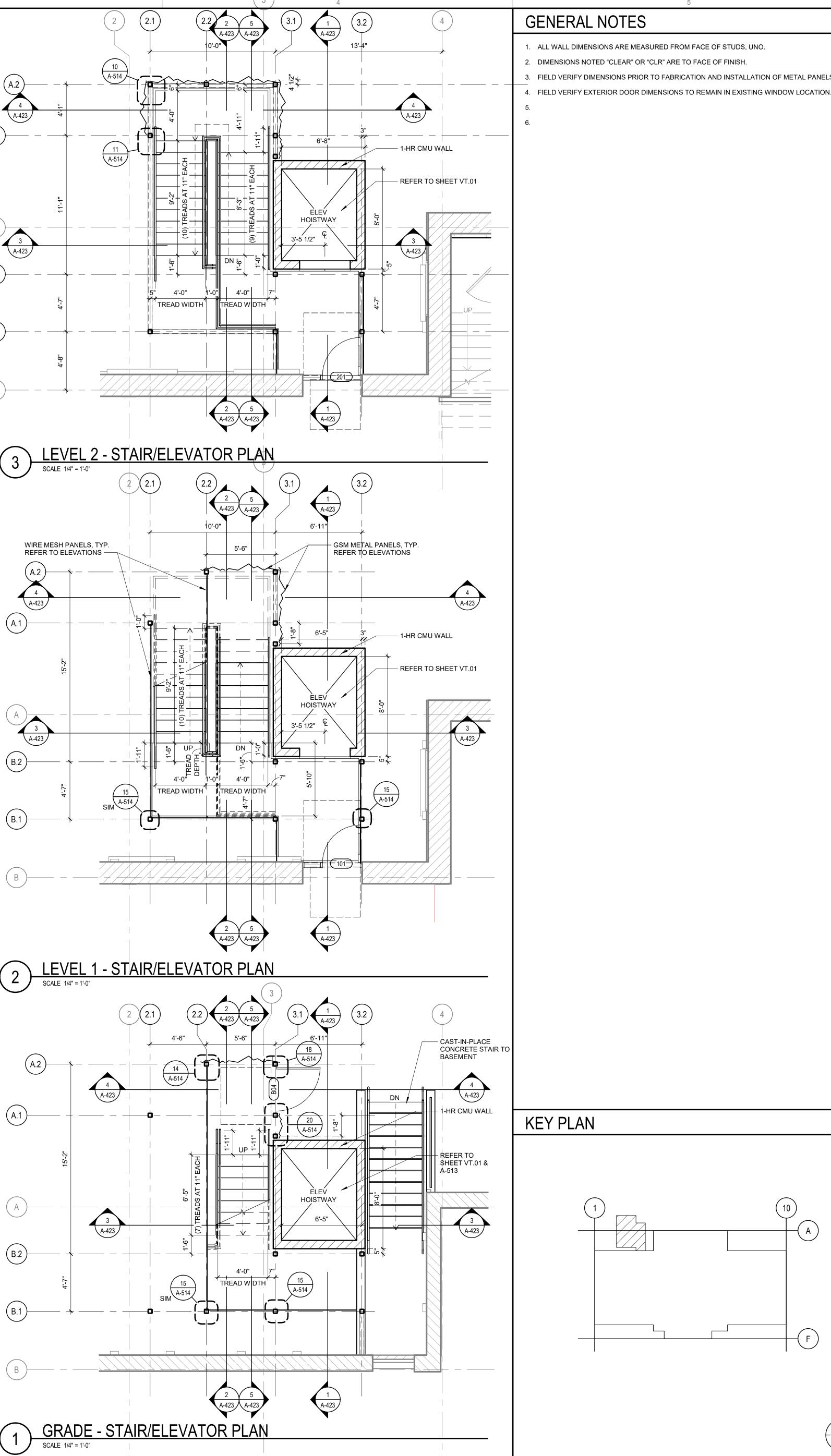
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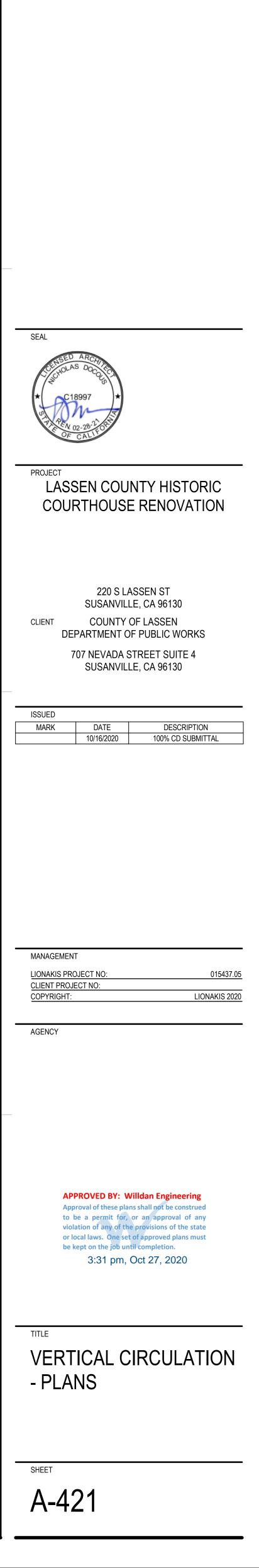








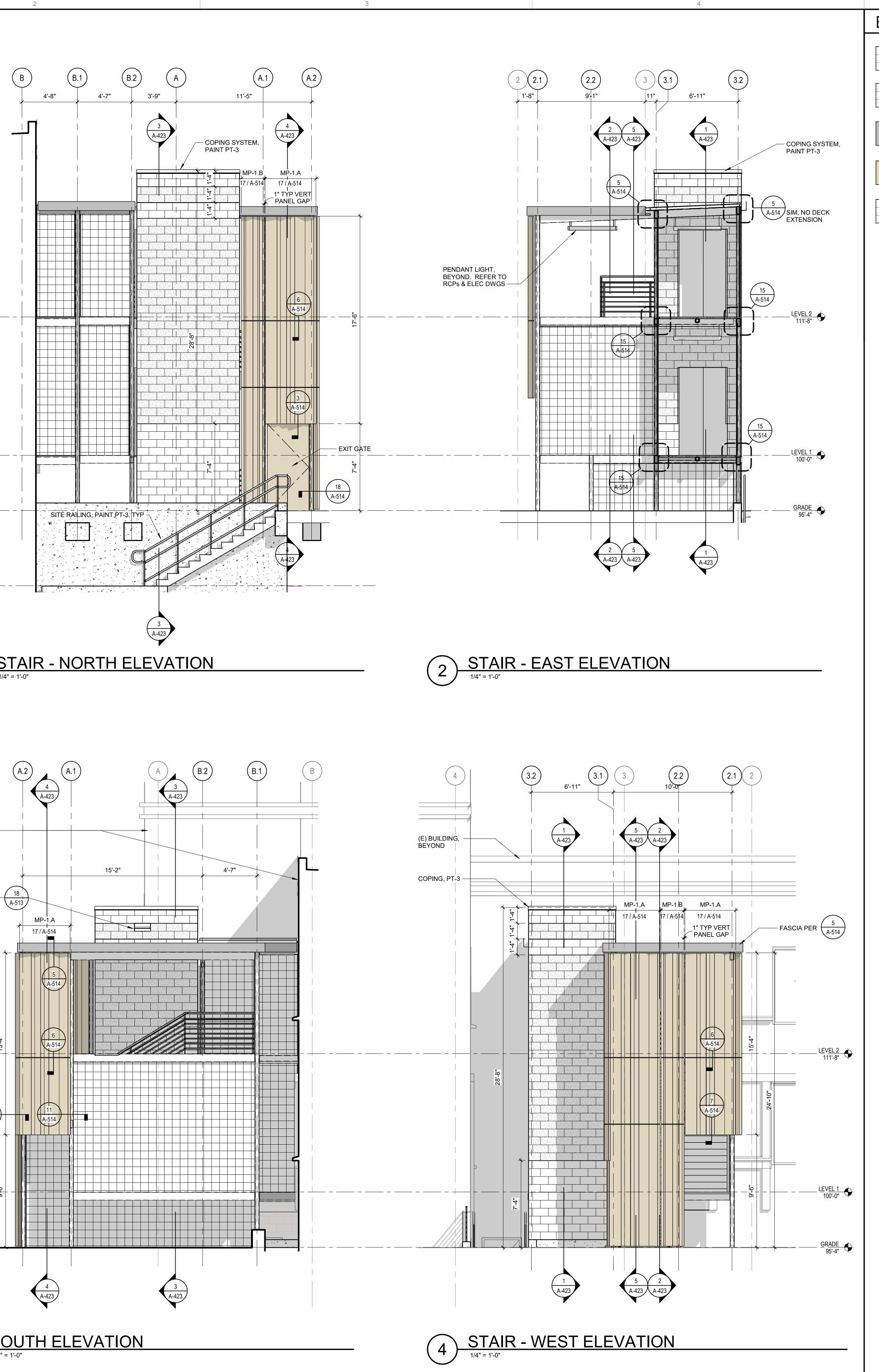




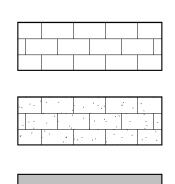
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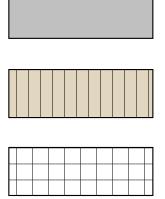
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ELEVATION LEGEND



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CMU, BASALITE NATURAL PRECISION OR APPROVED EQUAL

CMU, BASALITE NATURAL SPLIT-FACE OR APPROVED EQUAL

GALVANIZED STRUCTURAL STEEL, PAINTED PT-1

GALVANIZED SHEET METAL, PAINTED PT-2

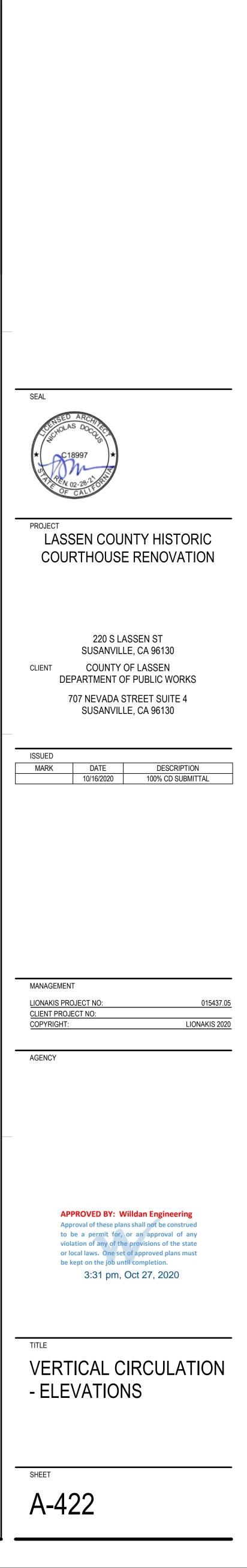
WIRE MESH, PAINTED PT-1

<u>GLASS</u>

GL-1 - SOLARBAN 70XL - CLEAR

PAINT COLORS PT-1 - SW 7066 PT-2 - SW 9508 PT-3 - SW 7662

PT-4 - SW 7007

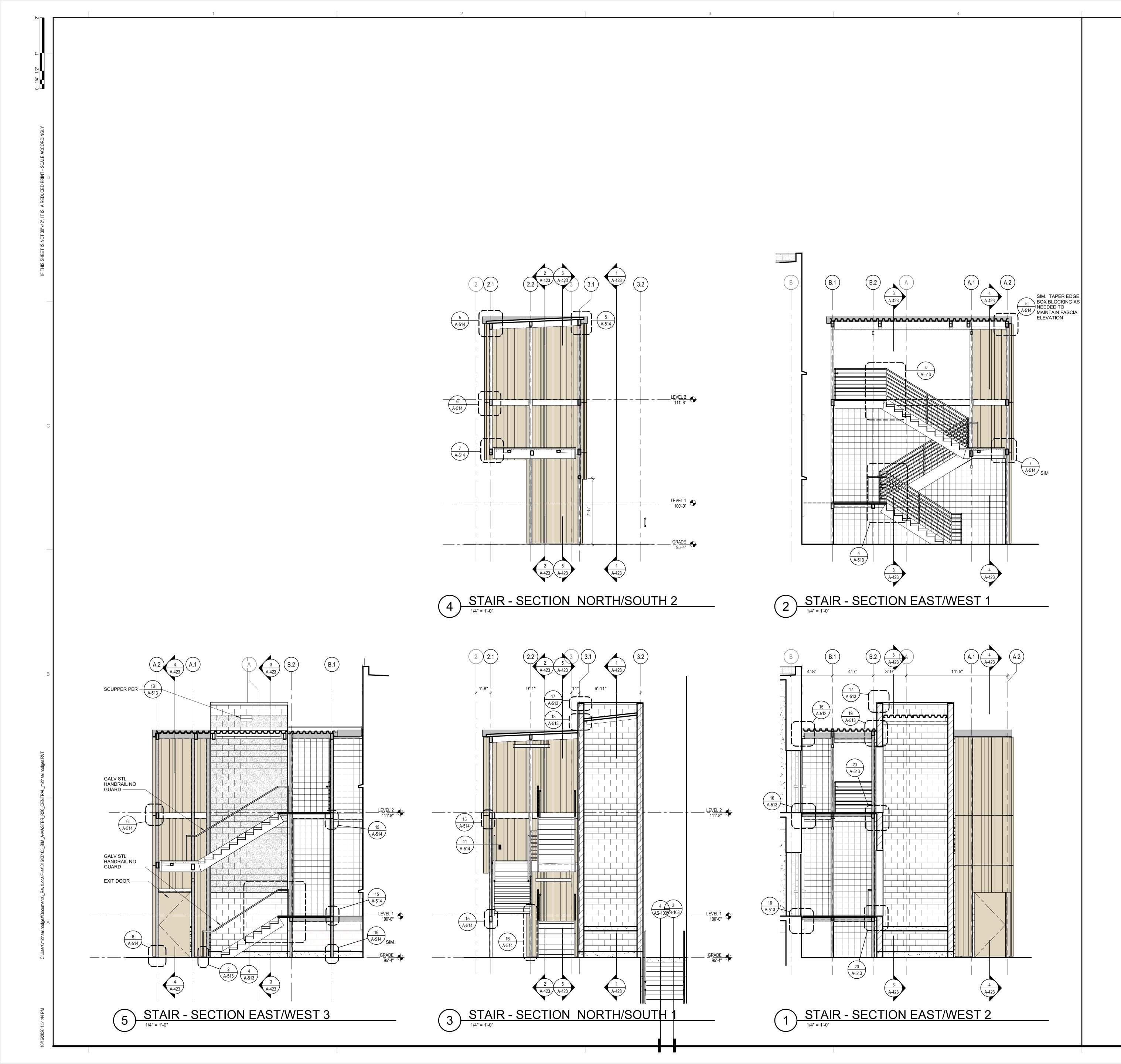


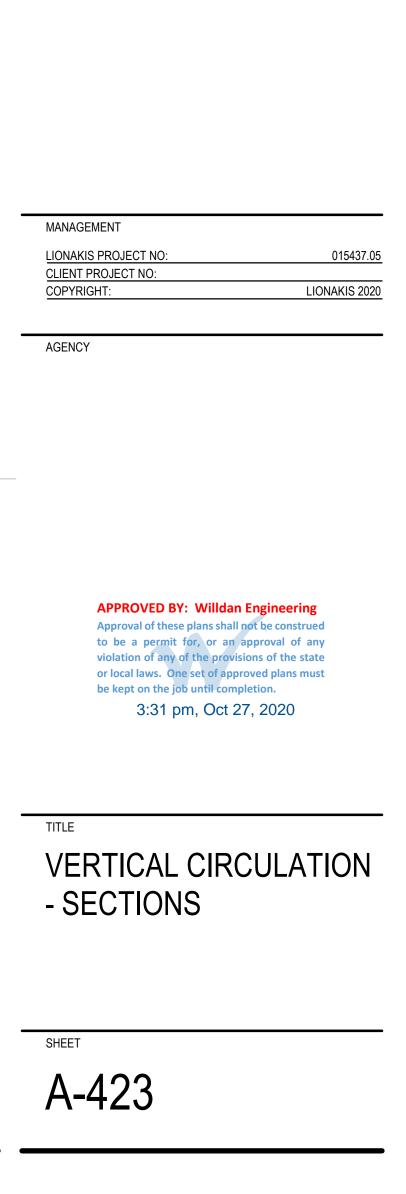
AKIS

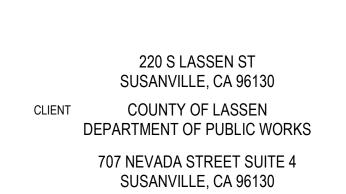
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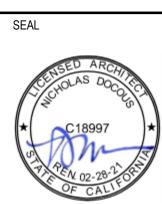
COURTHOUSE RENOVATION

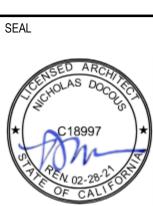


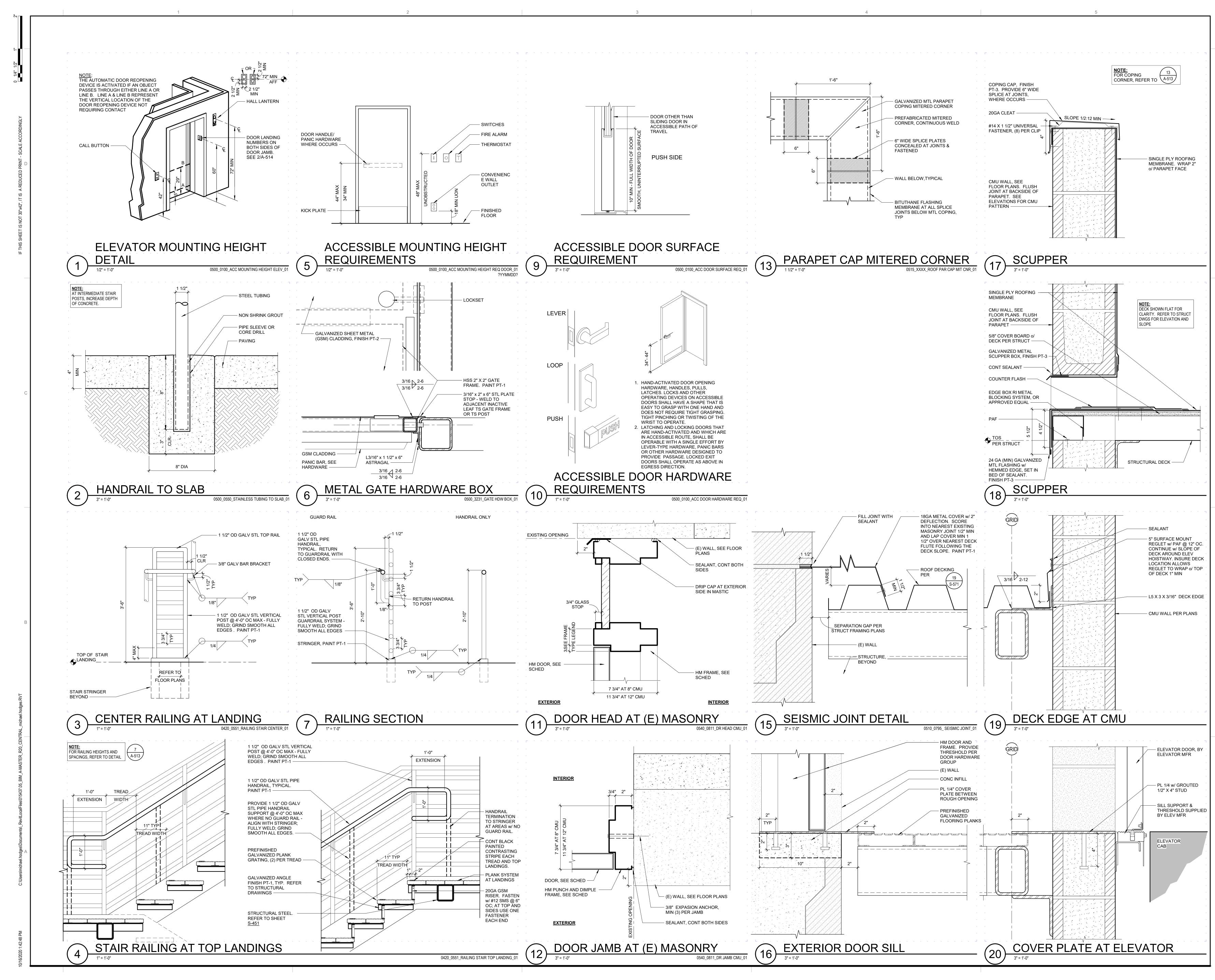
PROJECT

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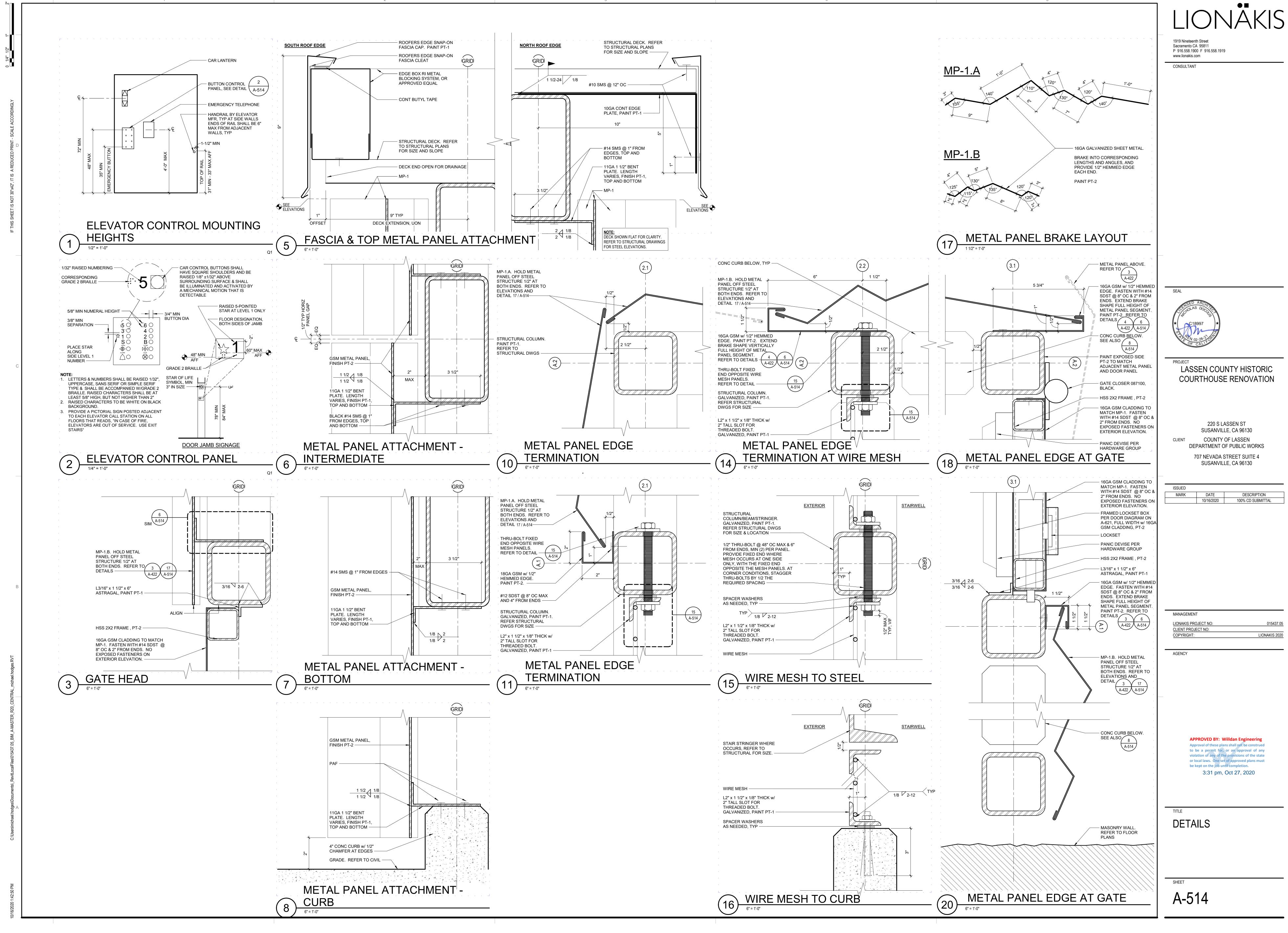
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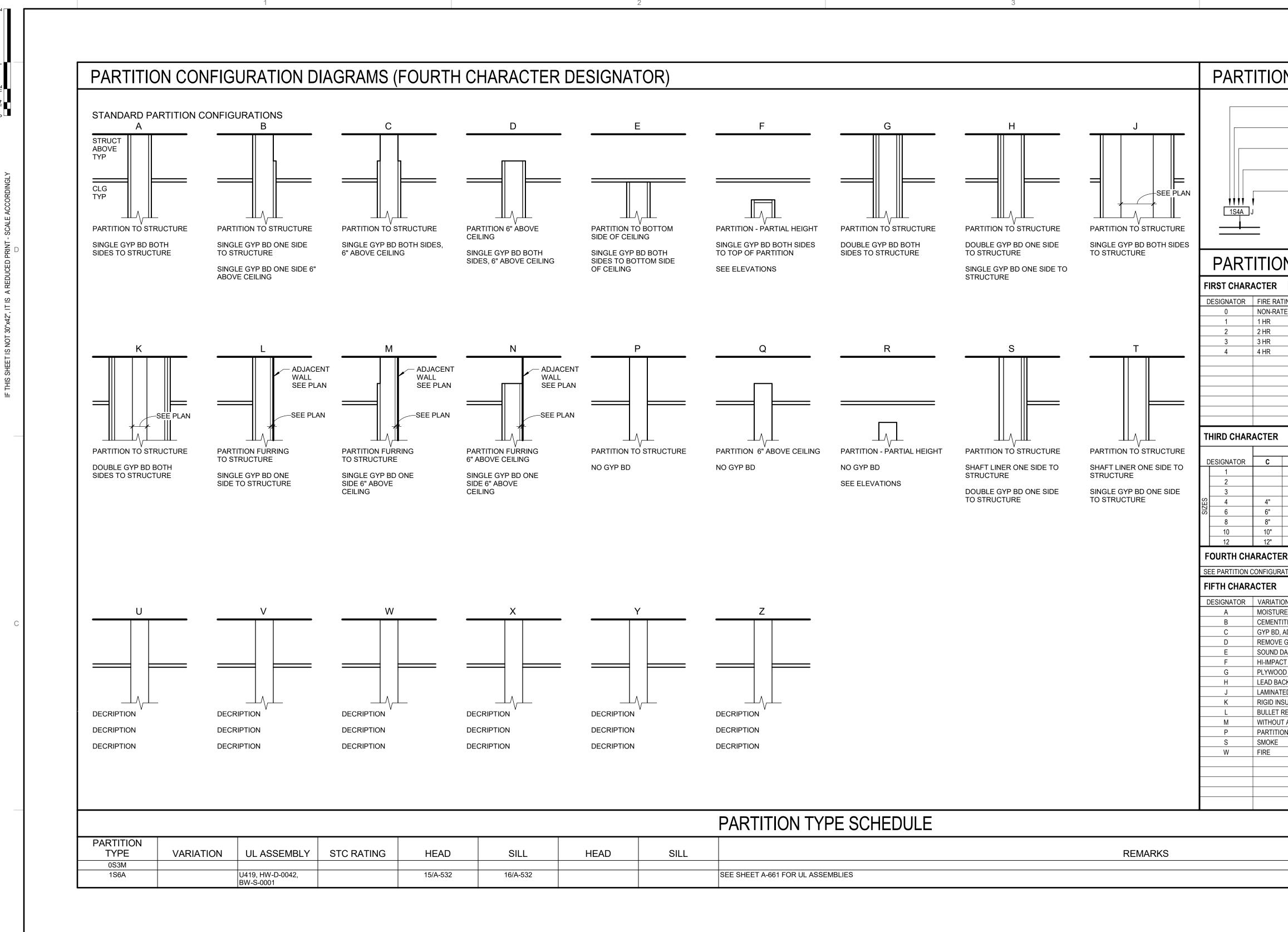
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PROJECT LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION
220 S LASSEN ST SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130
ISSUED
MARK DATE DESCRIPTION 10/16/2020 100% CD SUBMITTAL
MANAGEMENT
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TITLE



SHEET A-513









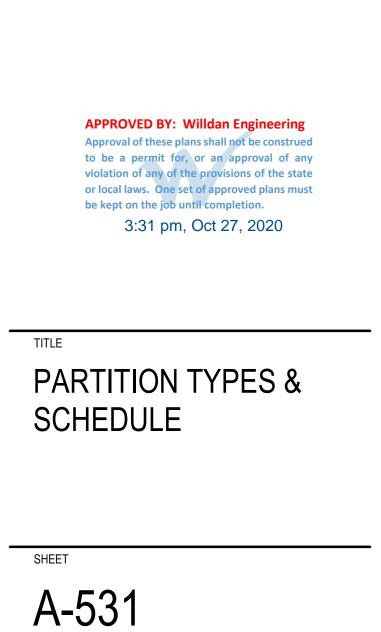






		PARTITION TYPE SCHEDULE	
٩D	SILL	REMARKS	
		SEE SHEET A-661 FOR UL ASSEMBLIES	

N TYPE SYMBOL KEY	PARTITION TYPE GENERAL NOTES
N TYPE SYMBOL KEY	 PARTITION TYPE GENERAL NOTES 1. REFER TO THE FLOOR PLANS FOR PARTITION TYPE SYMBOLS. A PARTITION TYPE IS INDICATED BY A SYMBOL CONTAINING THE PARTITION IDENTIFICATION WHICH REFERS TO A SPECIFIC ASSEMBLY INDICATED ON THIS SHEET. 2. THE CONSTRUCTION OF EXTERIOR WALLS ARE SHOWN ON WALL SECTIONS & CORESPONDING DETAILS. PARTITION SYMBOLS ARE ONLY USED TO SHOW INTERIOR CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS. 3. PARTITION TYPES AND TED BY THE SYMBOL CONTINUE BETWEEN ROOM/SPACE CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS. 4. SEE PLANS FOR STRUCTURE ABOVE NOTED IN PARTITION CONFIGURATION DIAGRAMS. 5. SEE PLANS FOR STRUCTURE ABOVE NOTED IN PARTITION CONFIGURATION DIAGRAMS. 6. JEFFERING PARTITION TYPE SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES. 6. DIFFERING PARTITION TYPES SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES. 6. DIFFERING PARTITION TYPES SHALL ALIGN SO THAT PARTITIONS, THE PARTITION SHALL BE CONSTRUCTED PER CBC, TABLE 720.1(2). 6. OFFSUM BOARD SHALL BE FIRE RESISTANT, TYPE 'X UNO. FIRE RATED PARTITIONS SHALL BE CONSTRUCTED PER CBC, TABLE 720.1(2). 7. PROVIDE MOISTURE RESISTANT GYP BOARD AT PARTITIONS IN WET AREAS (FLOOR TO FINISH CELLING) INCLUDING BUT NOT LIMITED TO THE FOLLOWING ROOMS 8. JANTOR CLOSETS 8. JANTOR CLOSETS 8. JANTOR CLOSETS 8. JANTOR CLOSETS 9. DENKING FOUNTAIN ALCOVES 9. DENKING FOUNTAIN ALCOVES AT WET AREAS SCHEDULED WITH THE FINISH. 1. PROVIDE CEMENTITIOUS BACKER BOARD AT WET AREAS SCHEDULED WITH THE FINISH. 1. PROVIDE ACOUSTICAL TREATMENT AT PARTITIONS WITH ACOUSTIC INSULATION. 1. DENKING TO FORM A CONTINUOUS AROUND COLUMNS & OTHER OBSTRUCTIONS TO FOR
D 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< th=""></th1<></th1<></th1<></th1<>	 INSTALL ACOUSTICAL SEALANT AT PARTITION HEAD, SILL & JAMB TRANSITIONS, AS WELL AS AT PENETRATIONS THROUGH THE GYPSUM BOARD MEMBRANE INCLUDING PENETRATIONS AT MOUNTING FASTENERS. FIRE STOPPING REQUIREMENTS SHALL SUPERCEDE ACOUSTIC TREATMENT. GYPSUM BOARD SILL & JAMB EDGES TERMINATING AT DISSIMILAR MATERIAL (CMU, CONCRETE, METAL PANEL, ETC) SHALL ALLOW 1/4" CONTINUOUS GAP AND BE SEALED AIRTIGHT WITH AN ACOUSTIC SEALANT. THE BACK AND SIDES OF DUPLEX ELECTRICAL OUTLETS, TELEPHONE OUTLETS, CABLE TV OUTLETS, FIRE ALARM DEVICES, THERMOSTATS, ETC, SHALL BE SEALED WITH FIRE STOP PUTTY PADS AS SPECIFIED FOR FIRE RATED ASSEMBLIES. ELSEWHERE, BACK-TO-BACK OUTLET BOXES TO BE SEPARATED BY ONE EMPTY STUD SPACE AND A MINIMUM OF 16 INCHES. 11. PARTITIONS INDICATED AS FIRE OR SMOKE RATED FORM A SEPARATION THAT SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT CONCEALED SPACES, COLUMNS, TRANSITIONS OR OTHER OBSTRUCTIONS. 12. PENETRATIONS THROUGH RATED PARTITIONS SHALL BE SEALED WITH UL LISTED FIRE/SMOKE STOP ASSEMBLY. 13. SEE PARTITION PRIORITY LEGEND FOR PRIORITIZATION OF INTERSECTING PARTITIONS.
	PARTITION TYPE SHEET NOTES
	PARTITION PRIORITY PARTITION PRIORITY 1 (HIGHEST) THREE HOUR FIRE AND/OR SMOKE PARTITION PRIORITY 2 TWO HOUR FIRE AND/OR SMOKE PARTITION PRIORITY 2 TWO HOUR FIRE PRADI/OR SMOKE PARTITION PRIORITY 3 TWO HOUR FIRE PARTITION PRIORITY 6 ONE HOUR FIRE PARTITION PRIORITY 6 ONE HOUR FIRE PARTITION PRIORITY 7 (LOWEST) ONE HOUR FIRE PARTITION



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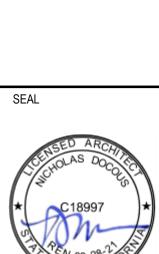
ISSUED		
MARK	DATE	DESCRIPTION
	10/16/2020	100% CD SUBMITTAL

220 S LASSEN ST SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130

COURTHOUSE RENOVATION



PROJECT LASSEN COUNTY HISTORIC



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-			1			
0 1/4" 1/2" 1" 2"						
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY						
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CONC WHERE OCCURS, SEE STRUCT DWGS — MTL DECKING, SEE STRUC DWGS -

AND ATTACHMENT -

ATTACHEMENT -ACOUSTIC INSULATION W/O, PER WALL TYPE —

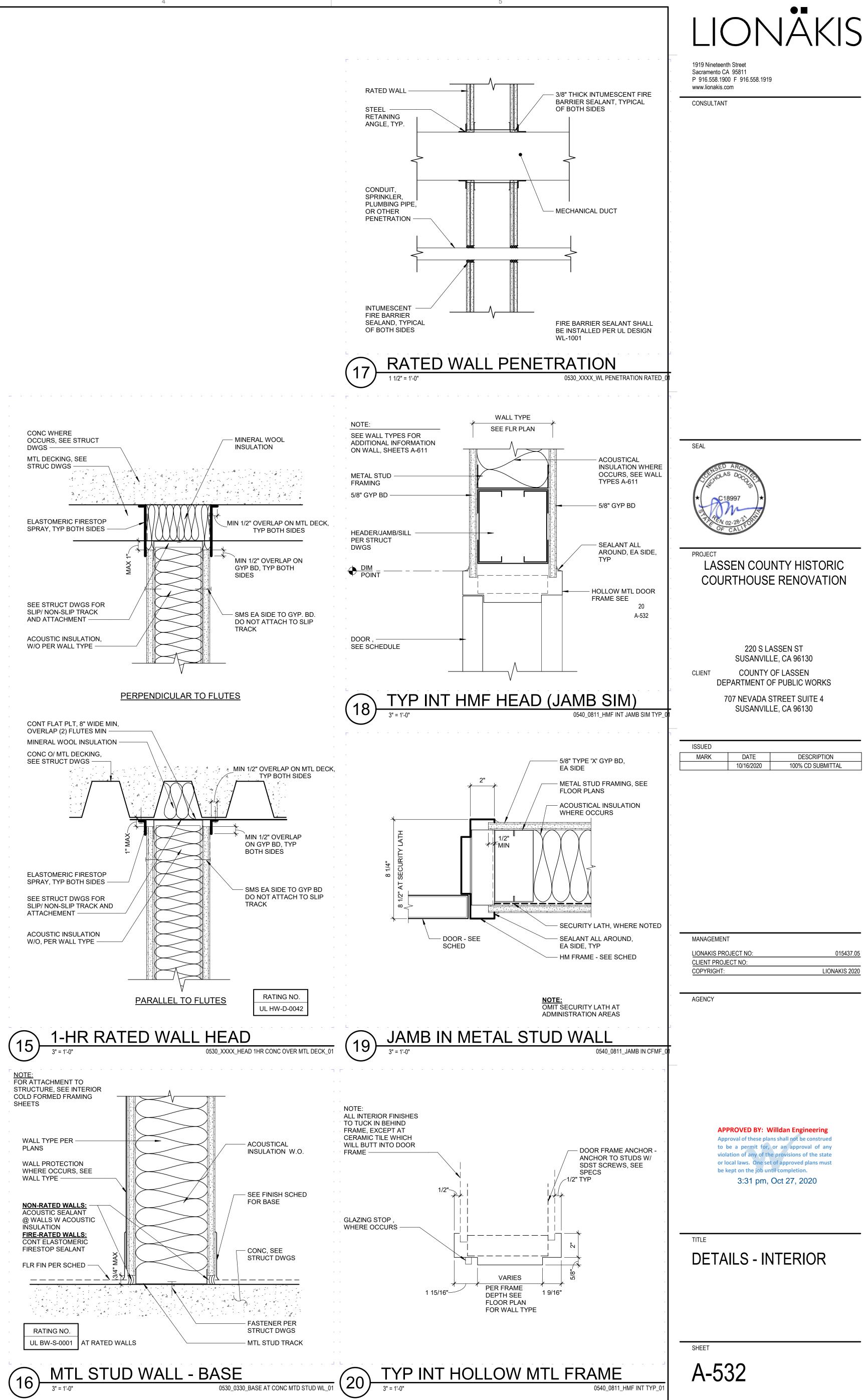
(15)3" = 1'-0"

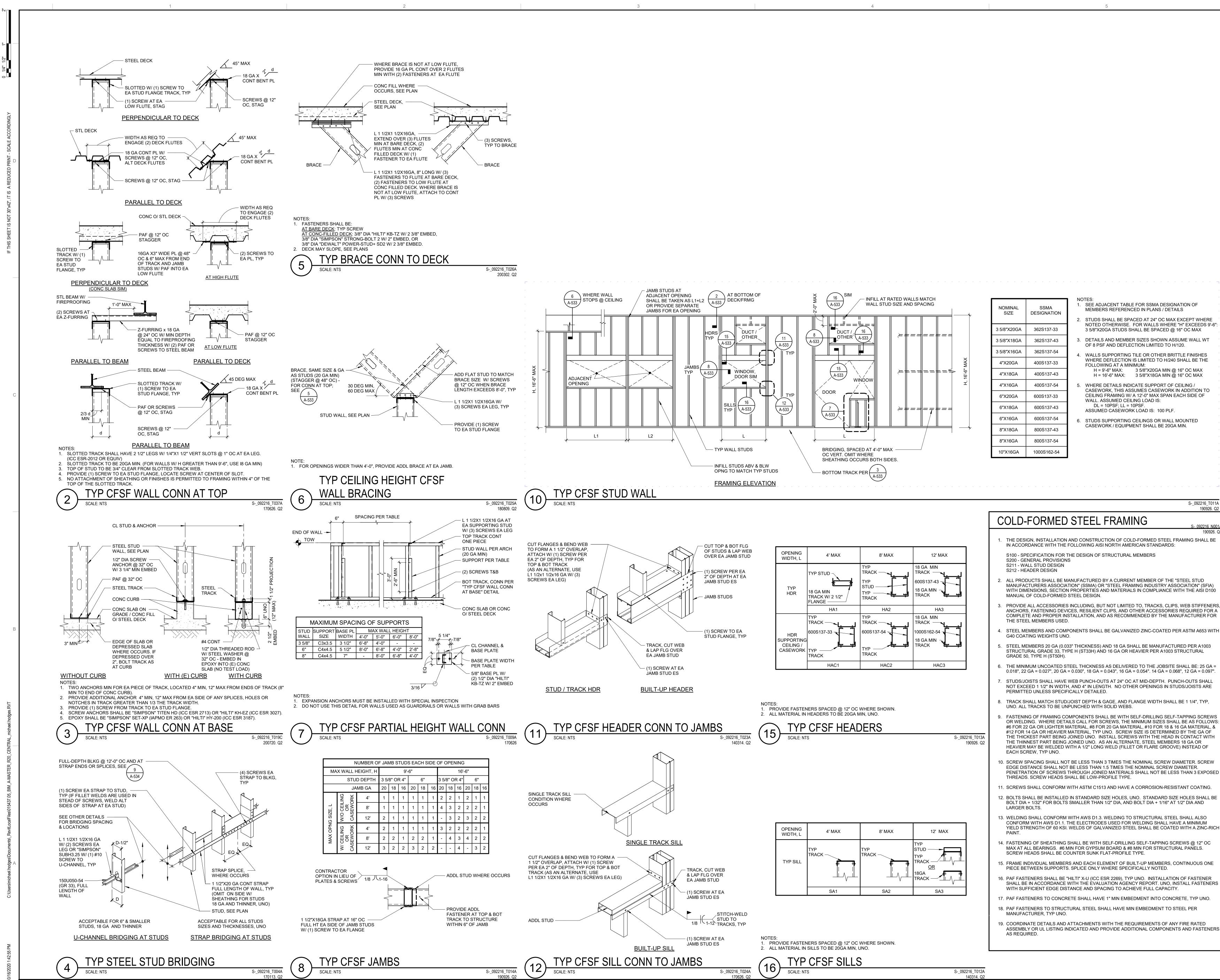
<u>NOTE:</u> FOR ATTACHMENT TO STRUCTURE, SEE INTERIOR COLD FORMED FRAMING SHEETS

> WALL TYPE PER PLANS WALL PROTECTION WHERE OCCURS, SEE WALL TYPE —

NON-RATED WALLS: ACOUSTIC SEALANT @ WALLS W ACOUSTIC INSULATION FIRE-RATED WALLS: CONT ELASTOMERIC FIRESTOP SEALANT FLR FIN PER SCHED —

RATING NO.









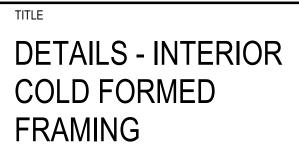
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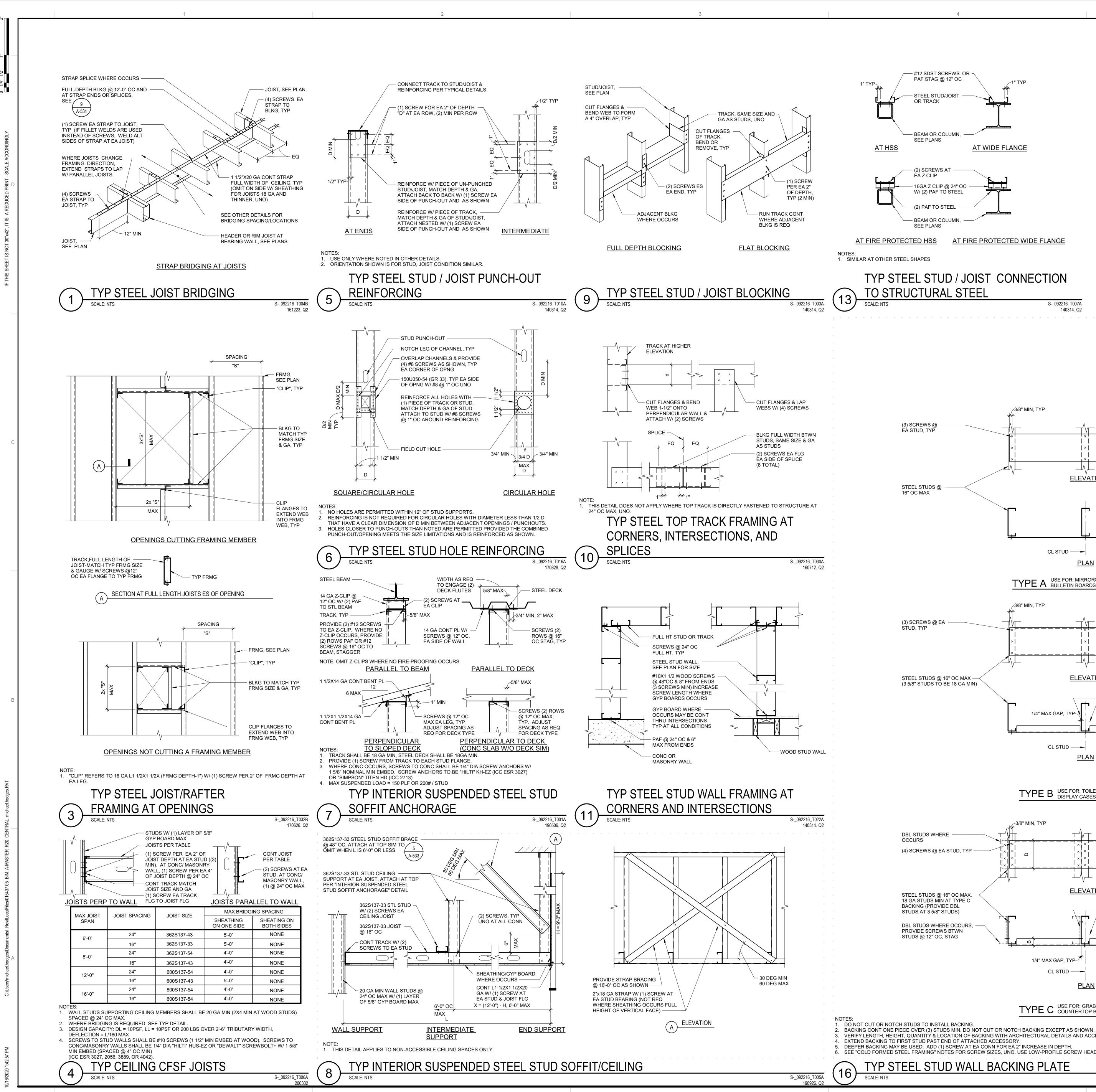
PROJECT LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION 220 S LASSEN ST SUSANVILLE, CA 96130 COUNTY OF LASSEN CLIENT DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130 ISSUED MARK DATE DESCRIPTION 10/16/2020 100% CD SUBMITTAL MANAGEMENT ONAKIS PROJECT NO 015437.05 CLIENT PROJECT NO: LIONAKIS 2020 COPYRIGHT: AGENCY

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SHEET

A-533



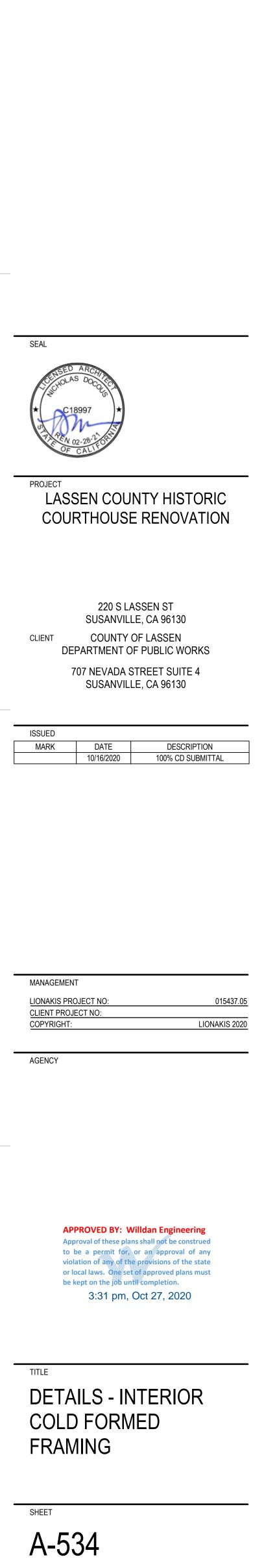
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140314. Q2

× _ <u>ELEVATION</u> 6"x16 GA FLAT STRAP (A) SECTION CL STUD ------- IF NEEDED, SPLICE PL AT CL STUD AND PROVIDE (3) SCREWS EA END OF BACKING TO STUD <u>PLAN</u> ATTACH ACCESSORIES TO BACKING WITH #10 SCREWS, MIN TYPE A USE FOR: MIRRORS, FLAT SIGNS, TACK BOARDS, CHALKBOARDS BULLETIN BOARDS, MARKER BOARDS, FRAMED ARTWORK | × | └┝╺╸╸╸╸╸╸╸┥╳┝╸╸╸╸╸╸╸╘╶╣╚┽╾╺┾╮╼ **ELEVATION** (B) SECTION - CUT BACKING FLANGE AT - 600T150-54 OR 600S050-54 STUD, TYP (UNPUNCHED) 1/4" MAX GAP, TY -----CL STUD ------IF NEEDED, SPLICE TRACK AT FACE OF STUD & CONNECT W/ L1 1/2 X1 1/2 X16 GA W/ (3) SCREWS EA LEG PLAN ATTACH ACCESSORIES TO BACKING WITH #12 SCREWS, MIN TYPE B USE FOR: TOILET & BATH ACCESSORIES UNO, DOOR STOPS, DOOR HOLDERS, CABINETS, DISPLAY CASES AND TOILET PARTITIONS AND ELECTRICAL PANELS LESS THAN 75LBS. ╶╓┷┑══╪ ╵┝──┪────┤┤┝─╴ ━━━━━━━━━ **ELEVATION** C SECTION - CUT BACKING FLANGE AT ╶╲┐┏┿┓ 600S162-54 OR 600S100-68 STUD, TYP (UNPUNCHED) _____ _____ 1/4" MAX GAP, TYP-- IF NEEDED, SPLICE STUD BACKING AT FACE OF STUD & CONNECT W/ L1 1/2X1 1/2X16 GA W/ (4) SCREWS EA LEG ATTACH ACCESSORIES TO BACKING WITH #14 OR 1/4" DIA SCREWS, MIN <u>PLAN</u> TYPE C USE FOR: GRAB BARS, SHOWER SEATS, SHELF BRACKETS, COUNTERTOP BRACKETS, URINAL SCREENS, AND SINK BRACKETS

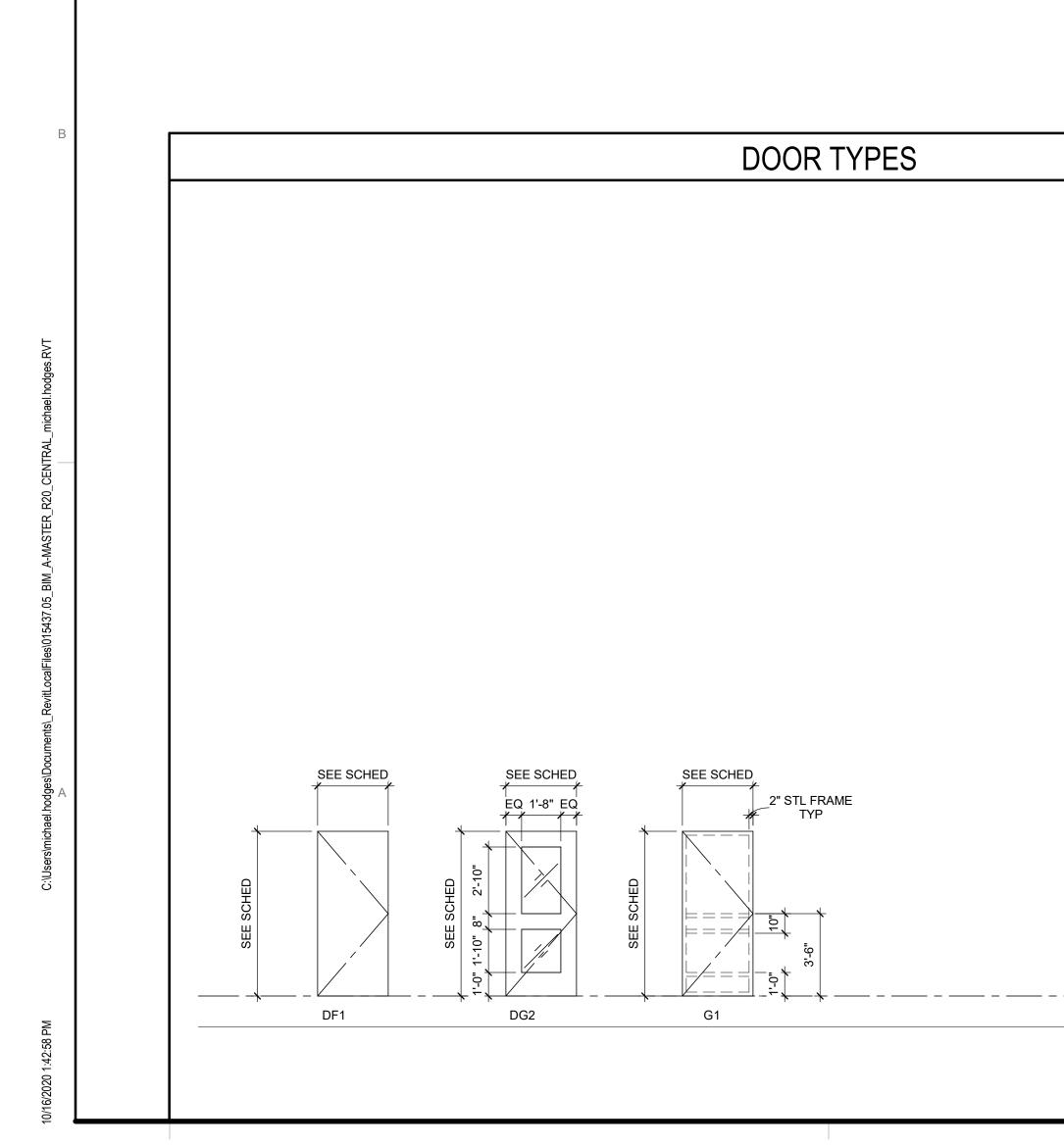
VERIFY LENGTH, HEIGHT, QUANTITY & LOCATION OF BACKING WITH ARCHITECTURAL DETAILS AND ACCESSORY MANUFACTURER.

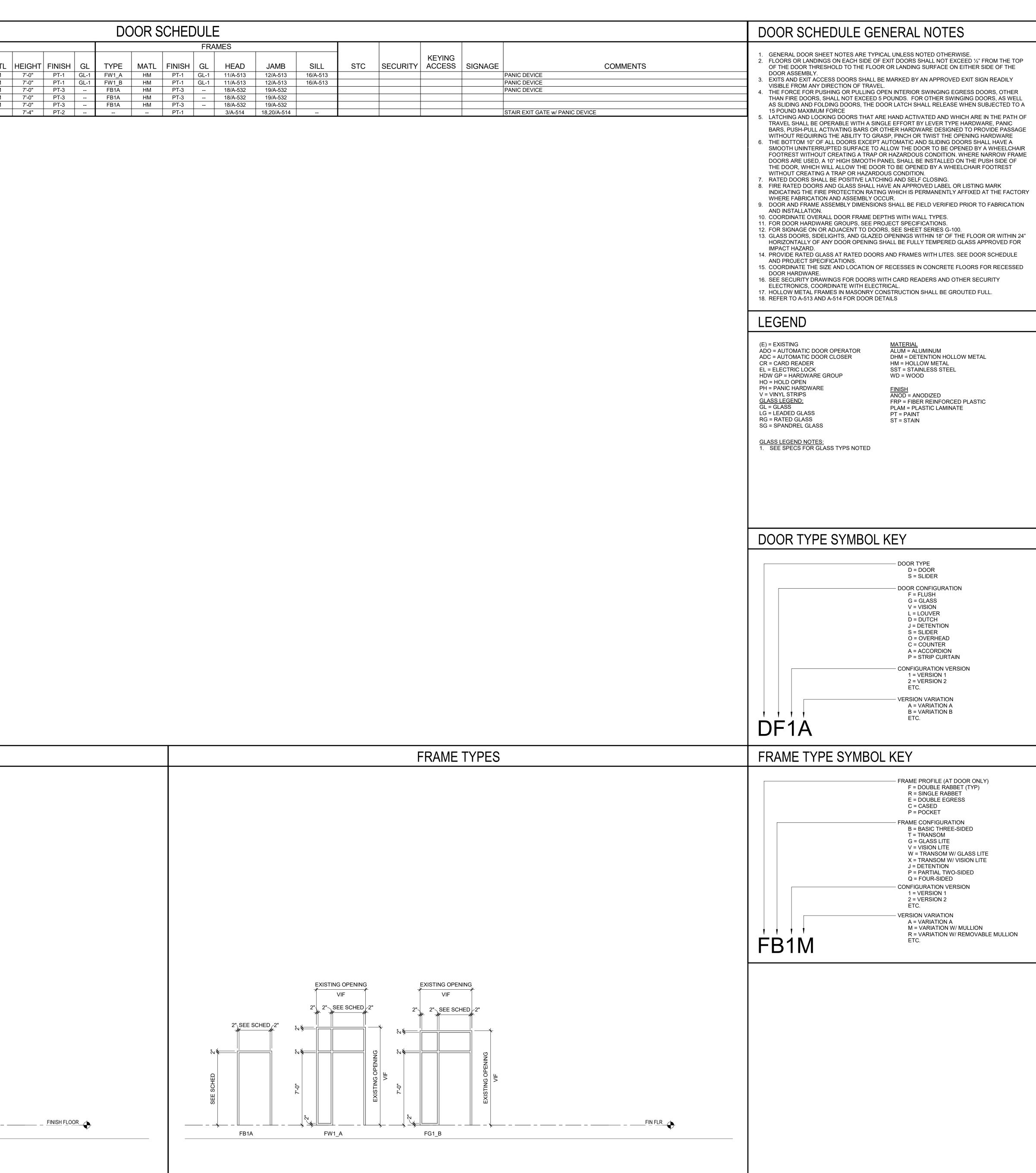
6. SEE "COLD FORMED STEEL FRAMING" NOTES FOR SCREW SIZES, UNO. USE LOW-PROFILE SCREW HEADS FOR BACKING TO STUD CONNECTION.

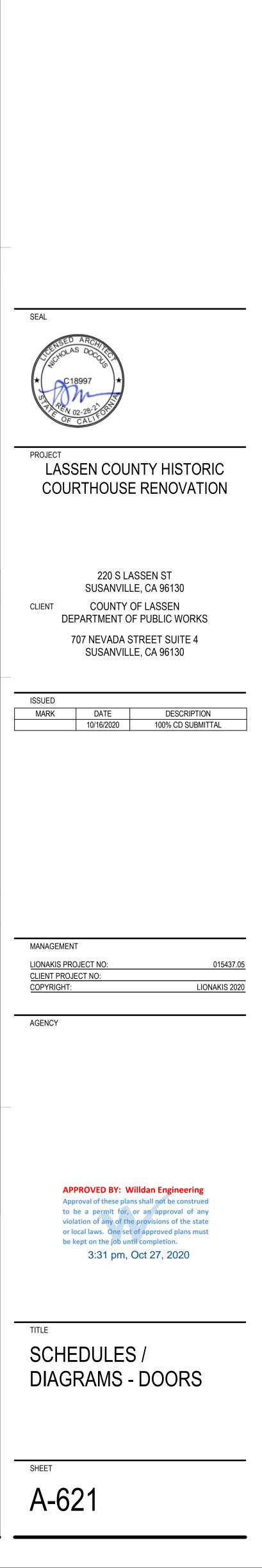


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	DOOR SCHEDULE																						
		FIRE			DOORS									FRA	MES								
		RATING	HDW			LEA	AF 2														KEYING		
DOOR NO	LOCATION	(MINS)	GP	TYPE	WIDTH	TYPE	WIDTH	MATL	HEIGHT	FINISH	GL	TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL	STC	SECURITY	ACCESS	SIGNAGE	
101	LEVEL 1 INFILL / TO ELEVATOR/STAIR LANDING	0	102	DG2	3'-0"			НМ	7'-0"	PT-1	GL-1	FW1_A	HM	PT-1	GL-1	11/A-513	12/A-513	16/A-513					PANIC D
201	LEVEL 2 INFILL / TO ELEVATOR/STAIR LANDING	0	102	DG2	3'-0"			HM	7'-0"	PT-1	GL-1	FW1_B	HM	PT-1	GL-1	11/A-513	12/A-513	16/A-513					PANIC [
B01	BASEMENT / MAIN ELECTRICAL ROOM	20	103	DF1	3'-0"			HM	7'-0"	PT-3		FB1A	HM	PT-3		18/A-532	19/A-532						PANIC D
B02	BASEMENT / MPOE	20	104	DF1	3'-0"			НМ	7'-0"	PT-3		FB1A	HM	PT-3		18/A-532	19/A-532						
B03	BASEMENT / ELEVATOR MACHINE ROOM	20	104	DF1	3'-0"			HM	7'-0"	PT-3		FB1A	HM	PT-3		18/A-532	19/A-532						
B04	ONE WAY STAIR DISCHARGE GATE	0	101	G1	3'-6"				7'-4"	PT-2				PT-1		3/A-514	18,20/A-514						STAIR E





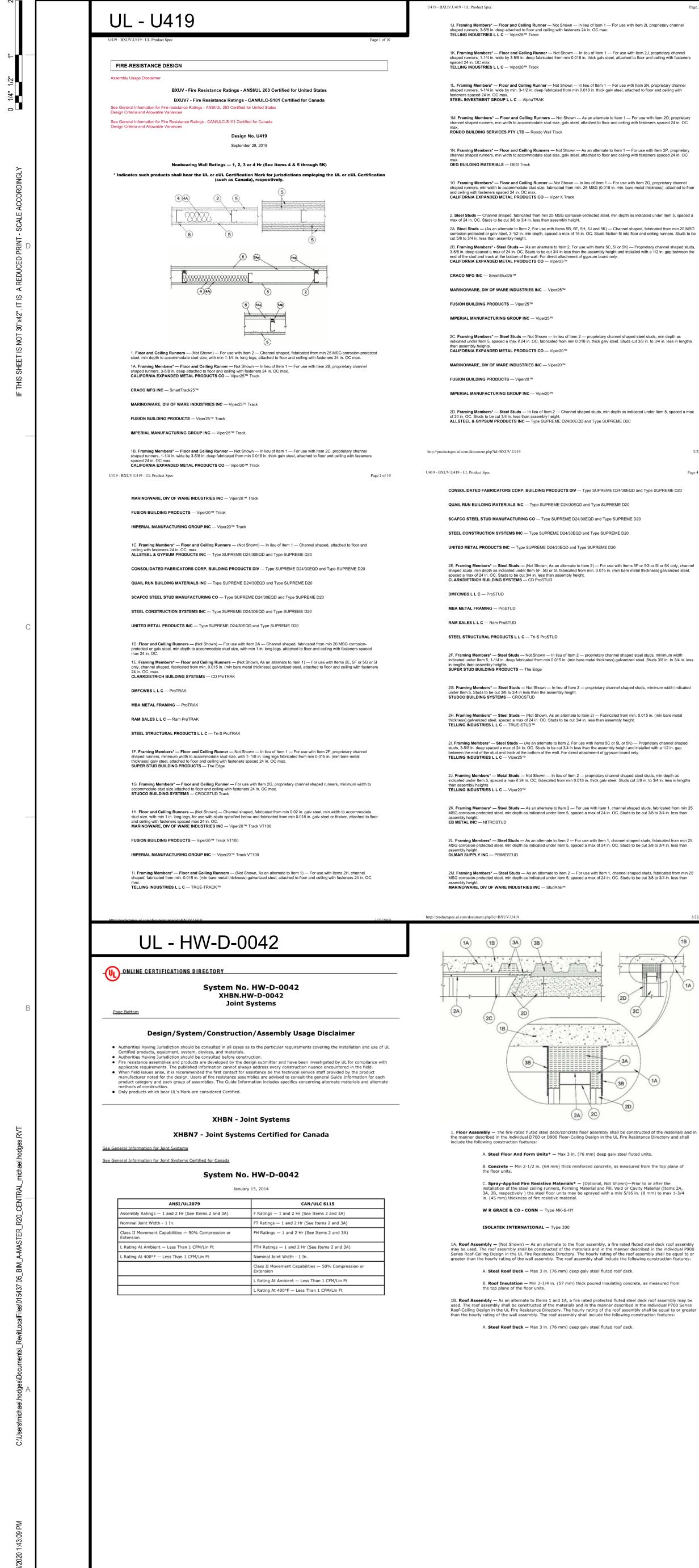


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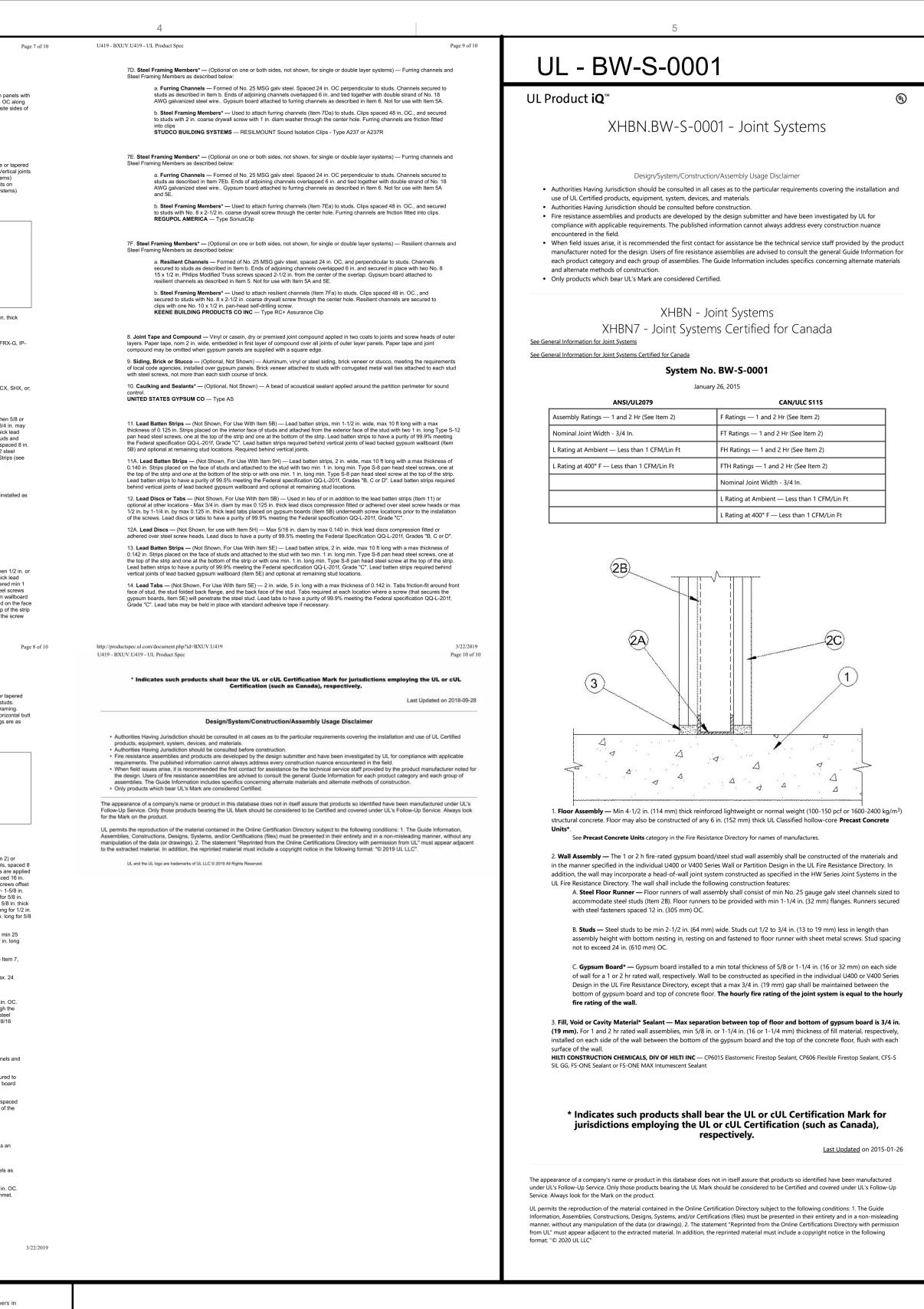
2 Page 3 of 10	U419 - BXUV.U419 - UL Product Spec Page 5 of 10	U419 - BXUV.U419 - UL Product Spec
ltem 21, proprietary channel	2N. Framing Members*— Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length	NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco
h Item 2J, proprietary channel to floor and ceiling with fasteners	than assembly height. STEEL INVESTMENT GROUP L L C — AlphaSTUD 20. Framing Members* — Steel Studs — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.	5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum pane beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite si studs. Steel stud depth shall be a minimum 3-5/8 in. UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX
Item 2N, proprietary channel	RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud	USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX
hed to floor and ceiling with For use with Item 2O, proprietary vith fasteners spaced 24 in. OC	under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max. OEG BUILDING MATERIALS — OEG Stud 2Q. Framing Members* — Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 10, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.	5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled, square or ta edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertic: centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:
	CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X 3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand	Gypsum Board Protection on Each Side of Wall Min Stud No. of Layers Min Thkns of Insulation Rating, Depth, in. & Thickness Insulation
For use with Item 2P, proprietary vith fasteners spaced 24 in. OC h Item 2Q, proprietary channel	 board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in. 4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under tem 5. 	HrItem 2Eof Panel(Item 4)21-5/82 layers, 1/2 in. thickOptional21-5/82 layers, 5/8 in. thickOptional31-5/83 layers, 1/2 in. thickOptional31-5/83 layers, 5/8 in. thickOptional
metal thickness), attached to floor	See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.	4 1-5/8 4 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 1/2 in. thick Optional
s indicated under Item 5, spaced a	See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies. 4B. Batts and Blankets* — For use with Item 5K. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL	CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thir Types IP-X3 or ULTRACODE
aped, fabricated from min 20 MSG oor and ceiling runners. Studs to be	Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.	UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-4 AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE
Proprietary channel shaped studs, alled with a 1/2 in. gap between the	4C. Fiber, Sprayed* — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus	USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, S 3/4 in. thick Types IP-X3 or ULTRACODE
	5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs. Vertical joints end not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs. Need not be backed by istel framing. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows: Gypsum Board Protection on Each Side of Wall	5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick le backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs a staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips Item 11A) or Lead Discs (see Item 12A).
d steel studs, min depth as ut 3/8 in. to 3/4 in. less in lengths	Min No. of Min Stud Layers Thkns of Depth, in. & Thkns Insulation Rating, Hr Items 2, 2C, 2D, 2F, 2G, 2D of Panel (Item 4)	MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum 51. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges instal
	1 3-1/2 1 layer, 5/8 in. thick Optional 1 2-1/2 1 layer, 1/2 in. thick 1-1/2 in. 1 1-5/8 1 layer, 3/4 in. thick Optional	described in Item 5. Steel stud minimum depth shall be as indicated in Item 5. CGC INC — Type ULX
	2 1-5/8 2 layers, 1/2 in. thick Optional 2 1-5/8 2 layers, 5/8 in. thick Optional	UNITED STATES GYPSUM CO — Type ULX USG MEXICO S A DE C V — Type ULX
	2 3-1/2 1 layer, 3/4 in. thick 3 in. 3 1-5/8 3 layers, 1/2 in. thick Optional 3 1-5/8 2 layers, 3/4 in. thick Optional	5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/
icated under Item 5, spaced a max	3 1-5/8 3 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 1/2 in. thick Optional 4 2-1/2 2 layers, 3/4 in. thick 2 in.	5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick le backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered r stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel sc spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wal and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on 1 of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of ti and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the s
3/22/2019	http://productspec.ul.com/document.php?id=BXUV.U419 3/22/2019	heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
Page 4 of 10	U419 - BXUV.U419 - UL Product Spec Page 6 of 10	RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall
D and Type SUPREME D20	CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE	5K. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tap edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framin
D20	UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE	Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizor joints in adjacent layers (multilayer systems) need not be staggered. The number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are follows:
	USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE	Gypsum Board Protection on Each Side of Wall Min No. of Min Stud Layers Thkns of
	USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE	Depth, in. Rating, HrDepth, in. Items 2 through 20& Thkns of PanelInsulation (Item 4B)13-5/81 layer, 5/8 in. thick3-1/2 in.
5F or 5G or 5I or 5K only, channel thickness) galvanized steel,	When Item 7B, Steel Framing Members [*] , is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.	2 1-5/8 2 layers, 5/8 in. thick Optional 3 1-5/8 3 layers, 5/8 in. thick Optional 4 1-5/8 4 layers, 5/8 in. thick Optional
	5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6. CGC INC — Type SHX.	UNITED STATES GYPSUM CO — 5/8 in. thick Type ULIX
	UNITED STATES GYPSUM CO — Type FRX-G, SHX.	6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) o furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, sp in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are
	USG MEXICO S A DE C V — Type SHX.	vertically. Two layer systems: First layer - 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 1 OC. Second layer-1-5/8 in. long for 1/2 in, 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in, 5/8 in. thick panels, spaced 14 in. OC. Second layer-1-5/8 in. thick panels are systems: First layer-1 in. long for 1/2 in, 5/8 in. thick panels, spaced 16 in. OC with screws 8 in. from first layer. Three-layer systems: First layer-1 in. long for 1/2 in, 5/8 in. thick panels, spaced 16 in. OC with screws 9 in 1/2 in, 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for 1/2 in, 5/8 in. thick panels or 2-5/8 in. long for 5/7
l steel studs, minimum width d steel. Studs 3/8 in. to 3/4 in. less	5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs	thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer-1 in. long for 1/2 in., 5/8 in panels, spaced 24 in. OC. Second layer-1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer-2-1/4 in. long for thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer-2-5/8 in. long for 1/2 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. 7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 2/8 in. OC. Fourth 1/2 in. DC.
d studs, minimum width indicated	or Tabs (see Item 12). RAY-BAR ENGINEERING CORP — Type RB-LBG	Type S-12 steel screws. Not for use with Item 5A. 7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item furring channels and Steel Framing Members as described below:
	5C. Gypsum Board* — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with	a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.
in. 0.015 in. (min bare metal t.	screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards	b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. Of RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V is for use with 2-9/16
— Proprietary channel shaped d installed with a 1/2 in. gap	are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory. CGC INC — Type SCX.	in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).
nıy.	UNITED STATES GYPSUM CO — Type SCX, SGX.	7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels a Steel Framing Members on only one side of studs as described below: a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured t
I steel studs, min depth as ut 3/8 in. to 3/4 in. less in lengths	USG BORAL DRYWALL SFZ LLC — Type SCX USG MEXICO S A DE C V — Type SCX	studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum boan attached to furring channels as described in Item 5. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips space
iped studs, fabricated from min 25 o be cut 3/8 to 3/4 in. less than	5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only. CGC INC — Type USGX	48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips. KINETICS NOISE CONTROL INC — Type Isomax
ped studs, fabricated from min 25	UNITED STATES GYPSUM CO - Type USGX	7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below: a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as
o be cut 3/8 to 3/4 in. less than	USG BORAL DRYWALL SFZ LLC — Type USGX USG MEXICO S A DE C V — Type USGX	described in Item 6. Not for use with Item 5A. b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. Of GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. PLITEQ INC — Type GENIECLIP
aped studs, fabricated from min 25 o be cut 3/8 to 3/4 in. less than	5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine	
3/22/2019	driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. http://productspec.ul.com/document.php?id=BXUV.U419 3/22/2019	http://productspec.ul.com/document.php?id=BXUV.U419
	B. Spray—Applied Fire Resistive Materials* — (Not Shown)—Prior to or after the installation of	A3. Light Gauge Framing*- Notched Ceiling Runner — As an alternate to the ceiling runners i
(18)	the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.	Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-
	W R GRACE & CO - CONN — Type MK-6-HY	applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. OLMAR SUPPLY INC – Type SCR
TA TA	ISOLATEK INTERNATIONAL — Type 300 2. Wall Assembly — The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials	B. Steel Attachment Clips — (Optional - Not Shown) - When spray applied fireproofing is used
20	and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:	ceiling runner may be secured to deck with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clip:
	A. Steel Floor And Ceiling Runners — Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire	fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel masonry anchors, steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.
	resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. A1. Light Gauge Framing*-Slotted Ceiling Runner — As an alternate to the ceiling runner in	C. Studs — Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with to nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, stee studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used
× (A)	Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC before optional spray-applied fire resistive material is used. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors,	steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC. D. Gypsum Board* – Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (1
	steel fasteners or welds spaced max 24 line. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.	and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsu board and the bottom of the steel deck units and the top row of screws shall be installed into the chief 1 (2 to 2 in. (23 to 51 mm) below the between the colling wines. The between the top row of screws shall be installed into the chief 1 (2 to 2 in. (23 to 51 mm) below the between the colling wines. The between the top row of screws shall be installed into the chief 1 (2 to 2 in. (23 to 51 mm) below the between of the colling wines. The between the top row of screws the steeled with the colling wines.
A.	BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS - SLP-TRK	studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner. The hourly rating of the joint system is dependent on the hourly rating of the wall. 3. Joint System — Max separation between bottom of floor or roof and top of wall at time of installation
structed of the materials and in sistance Directory and shall	CALIFORNIA EXPANDED METAL PRODUCTS CO — CST CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H	system is 1 in. (13 mm). The joint system is designed to accommodate a max 50 percent compression or exten its installed width. The joint system consists of forming material and a fill material, as follows: A. Forming Material* — Nom 4 pcf (64 kg/m3) density mineral wool batt insulation cut with a
ited units.	CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - SDT250, SDT300	A. Forming Material* — Nom 4 pct (64 kg/m3) density mineral wool batt insulation cut with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 25 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyon each side of the ceiling runner flush with wall surfaces. Alternately, nom 4 pc (64 kg/m3) forming
red from the top plane of Prior to or after the	MARINO/WARE, DIV OF WARE INDUSTRIES INC - Type SLT	each side of the ceiling runner, flush with wall surfaces. Alternately, nom 4 pcf (64 kg/m3) forming material cut to shape of flute and nom 1 in. (25 mm) longer than thickness of wall; mineral wool compressed from ends and firmly packed into each flute to attain a min compression rate of 14.3 percent in the length (wall thickness) direction to be flush with both wall surfaces. Additional 5/8 i and 1-1/4 in. (16 and 32 mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4
avity Material (Items 2A, in. (8 mm) to max 1-3/4	METAL-LITE INC — The System	pcf (64 kg/m ³) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck.
	OLMAR SUPPLY INC - STT250, STT300	ROCK WOOL MANUFACTURING CO — Delta- Board
luted steel deck roof assembly	R & P SUPPLY — SCT250, SCT300	ROXUL INC - SAFE
acces secribed in the individual P900 f assembly shall be equal to or lowing construction features:	SCAFCO STEEL STUD MANUFACTURING CO TELLING INDUSTRIES L L C — True-Action Deflection Track	THERMAFIBER INC - Type SAF
rete, as measured from	A2. Light Gauge Framing*-Vertical Deflection Ceiling Runner — When the nom joint width is less than or equal to 3/4 in. (19 mm), vertical deflection ceiling runner may be used as an alternate	IIG MINWOOL L L C — MinWool-1200 Safing
el deck roof assembly may be	to the ceiling runners in Items 2A and 2A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed perpendicular to direction of fluted	A1. Forming Material*—Plugs — (Optional, Not Shown) Preformed mineral wool plugs, formed t the shape of the fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of grossim dand and bottom of steel floor units.
l in the individual P700 Series nbly shall be equal to or greater construction features:	steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray- applied material.	between the top of gypsum board and bottom of steel floor units. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material. THE STEEL NETWORK INC — VertiTrack VTD250, VTD362, VTD400, VTD600 and VTD800

> 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel floor units on both sides of the wall. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CP 767 Speed Strips B. Fill, Void or Cavity Material* — Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (1.3 mm) onto gypsum board and steel deck on both sides of wall. When Spray-Applied Fire Resistive Material* is applied to the Steel floor and form the the summary board and steel how and the second board and steel of the second board and steel for and second board and steel and the second board and steel floor and form the second board and secon Form Units*, the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the firestop joint spray shall overlap the wall a min 1/2 i (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

*Bearing the UL Classification Mark Last Updated on 2014-01-15



ation of joint ctension from cent ned to

A2. Forming Material* - Strips - (Optional) - Nom 5/8 in. and 1-1/4 in. (16 and 32 mm) wide by



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

SEAL

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LASSEN COUNTY HISTORIC COURTHOUSE RENOVATION
220 S LASSEN ST SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4 SUSANVILLE, CA 96130
MARK DATE DESCRIPTION 10/16/2020 100% CD SUBMITTAL
MANAGEMENT LIONAKIS PROJECT NO: 015437.05
CLIENT PROJECT NO: COPYRIGHT: LIONAKIS 2020
AGENCY
APPROVED BY: Willdan Engineering Approval of these plans shall not be construed to be a permit for, or an approval of any violation of any of the provisions of the state or local laws. One set of approved plans must

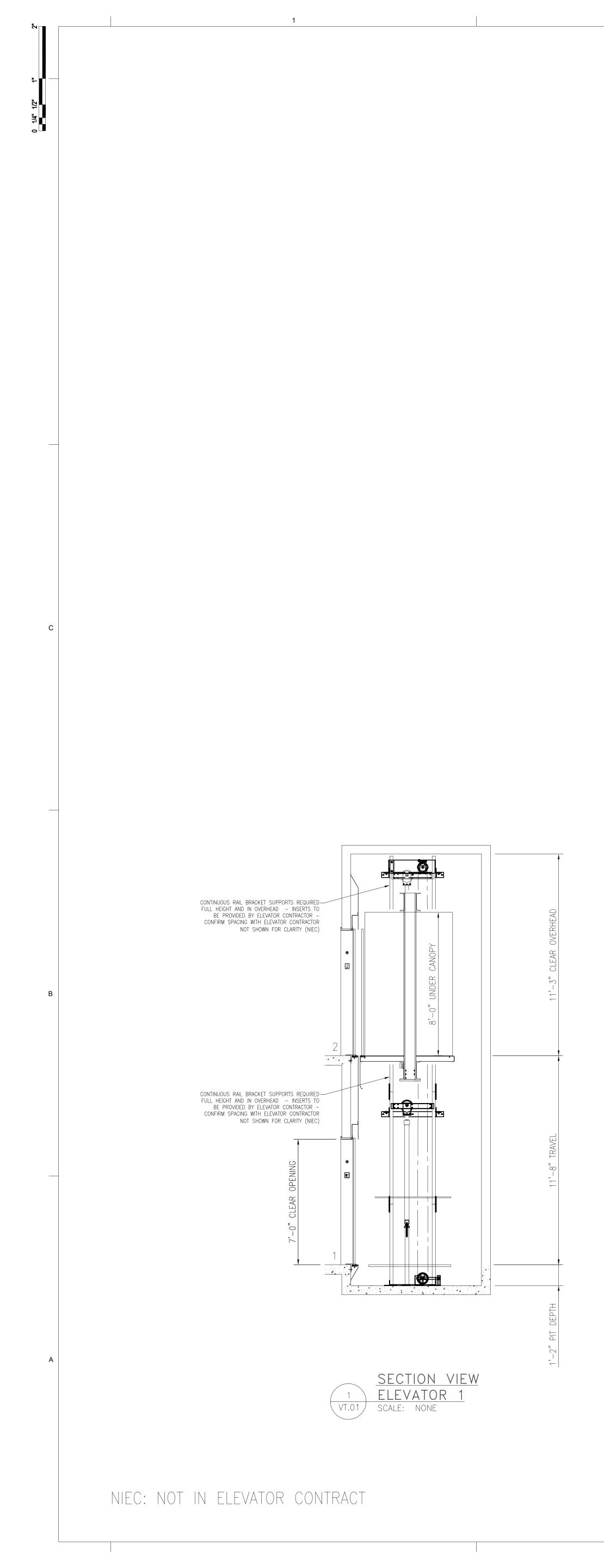
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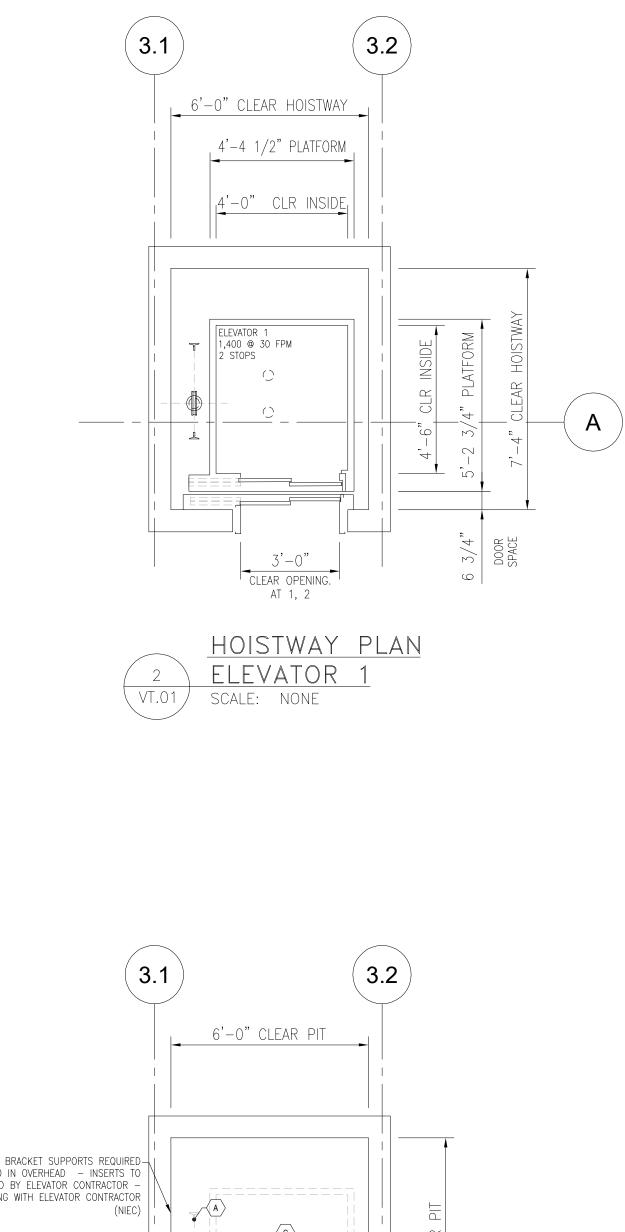
be kept on the job until completion.

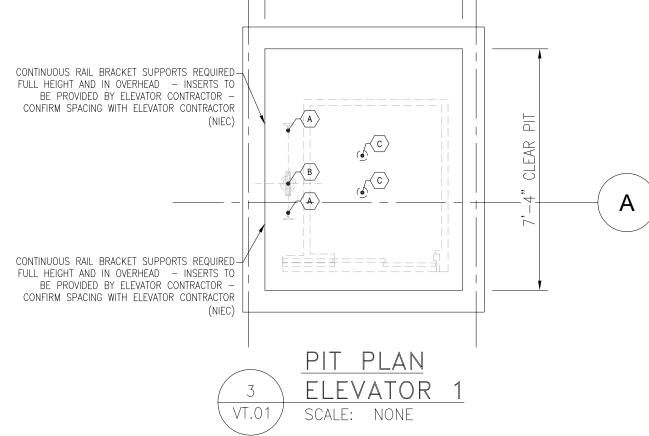


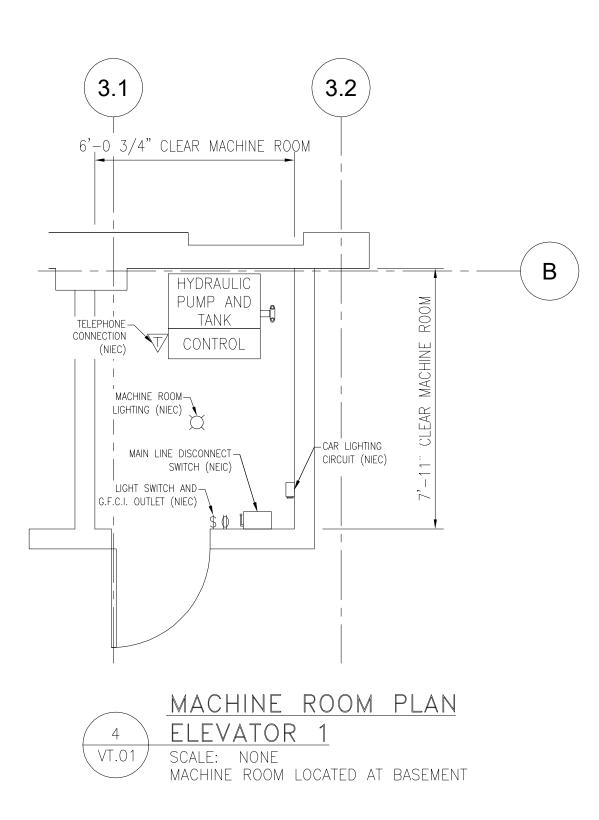
SHEET

A-66²











CODE, SECTION 620–51, ARTICLE 430–52 (EXCEPTIONS A, B, C) 8. PROVIDE LOCAL TELEPHONE SERVICE LINE TO EACH CAR CONTROLLER (IF APPLICABLE) 9. PROVIDE G.F.C.I.–PROTECTED PIT, CONTROL ROOM, AND OVERHEAD OUTLETS										
ADDITIONAL POWER AND DISCONNECT REQUIREMENTS IN MACHINE ROOM										
AUXILIARY SYSTEM	SUPPLY TERMINAL	SUPPLY VOLTAGE	CIRCUIT CAPACITY							
CAR LIGHT AND FAN W/ LOCKABLE DISCONNECT	EACH CONTROLLER	120V / 1 PH / 60hZ	20 AMP PER CAR							
SEISMIC SWITCH	EACH GROUP	120V / 1 PH / 60hZ	20 AMP PER CAR							

NOT	ES:								
1.	ELECTRIC POV	WER AND CL	JRRENT ARE	BASED ON T	HREE (3) PH	HASE A.C. POWER	SUPPLY		
2.	MAIN POWER	TO BE PRO	VIDED AT EAG	CH CONTROL	LER THROUG	H FUSED DISCONI	NECTING MEANS C	R CIRCUIT BREAKER	KS
3.	MAIN POWER	SUPPLY DIS	CONNECTING	MEANS TO	BE SIZED TO	LIMIT VOLTAGE D	ROP TO LESS TH	AN 5%	
4.	A FOURTH WI	RE IS REQU	IIRED FOR GF	ROUNDING PU	JRPOSES. T	HE CONDUIT CON	TAINING THE POW	ER CABLE CANNOT I	BE USED AS
	A GROUND F	OR THE SYS	STEM						
	PROVIDE ALL								
6.	MACHINE ROC	M TEMPERA	TURE TO BE	MINIMUM 50	DEGREES F	, MAX. 90 DEGRE	ES F, TO BE MEA	ASURED 6'—O" ABOV	/E FINISH
	FLOOR AT AP	PROXIMATE	CENTER OF I	ROOM – REL	ATIVE HUMID	ITY MAXIMUM 85%	6 NON CONDENSIN	IG	
7.	THE SELECTIO	ON OF MAIN	POWER SUP	PLY DISCON	VECTING MEA	NS TO BE SIZED	IN ACCORDANCE	WITH THE NATIONAL	ELECTRIC
	CODE, SECTIC	N 620-51,	ARTICLE 430)-52 (EXCEF	PTIONS A, B,	C)			
8.	PROVIDE LOC	AL TELEPHO	NE SERVICE	LINE TO EAC	H CAR CONT	ROLLER (IF APPL	ICABLE)		
							,		

POWER REQUIREMENTS FOR REFERENCE ONLY

UNIT NUMBER CAPACITY SPEED MOTOR DRIVE DRIVE FULL LOAD AMPERAGE MACHINE / CONTROL ROOM HP HP STARTING RUNNING HEAT LOADING (BTU'S / HR)

MAIN SUPPLY: 480V / 3 PH / 60hZ

6,000

15.6



POWER FEEDER REQUIREMENTS

ELEVATOR 1 1,400 30 15 N/A 30

PI ⁻	T REACTION TABLE
KEY	REACTION
A	3,000 LBS EACH
B	9,000 LBS
C	8,000 LBS EACH
REACTION	IS HAVE BEEN DOUBLED FOR IMPACT



4

		· · · · · · · · · · · · · · · · · · ·	R۸	IL FORCI	ES MAXIN	UM ON	EACH	GUIDE R	AIL
		ELEVATOR NUMBER	ELEVATOR 1						OCCURING ON
ES		R1	792 LBS						FACE OF MAIN GUIDE
FORCES		R2	286 LBS						SIDE OF MAIN GUIDE
NORMAL		CAR SAFETY	N/A						FORCE TRANSMITTED TO PIT CAR SAFETY APPLICATION *
NOF		CWT SAFETY	N/A						FORCE TRANSMITTED TO PIT CWT SAFETY APPLICATION *
ES	e R	R1	1584 LBS						FACE OF MAIN GUIDE **
FORCES	CA	R2	572 LBS						SIDE OF MAIN GUIDE – LOADING OR RUNNING **
SEISMIC	Ľ	R1	N/A						FACE OF COUNTERWEIGHT GUIDE **
SEIS	CW	R2	N/A						SIDE OF COUNTERWEIGHT GUIDE **
*	OF THE BUI A	LDING SUPPOF SUPPORT NO ESE REACTIONS LDING SUPPOF TOTAL DEFLEC SMIC CONDITIC	T IN EXCESS S DO NOT OC RTS FOR GUID FION NOT IN E	OF 1/8" DUR CUR SIMULTAN E RAIL ATTACH	ING NORMAL (IEOUSLY WITH HMENT SHALL	CONDITIONS PIT BUFFER RESIST HORIZ	REACTIONS ONTAL FOF	CES WITH	R2 - R2

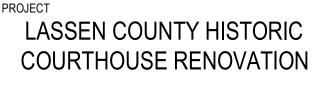


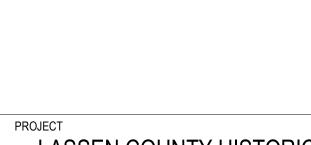
TITLE LU/LA ELEVATOR BASIS OF DESIGN

MARK	DATE	DESCRIPTION
	10/16/2020	100% CD SUBMITTAL
MANAGEMENT		
		015427.00
LIONAKIS PRO	JECT NO:	015437.05
LIONAKIS PRO CLIENT PROJE	JECT NO:	
LIONAKIS PRO	JECT NO:	015437.05 LIONAKIS 2020
LIONAKIS PRO CLIENT PROJE	JECT NO:	
LIONAKIS PRO CLIENT PROJE COPYRIGHT:	JECT NO:	
LIONAKIS PRO CLIENT PROJE COPYRIGHT:	JECT NO:	
MANAGEMENT LIONAKIS PRO CLIENT PROJE COPYRIGHT: AGENCY	JECT NO:	
LIONAKIS PRO CLIENT PROJE COPYRIGHT:	JECT NO:	
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LIONAKIS PRO CLIENT PROJE COPYRIGHT:	JECT NO:	

_	7	-	STREET SUITE 4 LE, CA 96130				
	ISSUED						
MARK DATE DESCRIPTION							
		10/16/2020	100% CD SUBMITTAL				

220 S LASSEN ST SUSANVILLE, CA 96130 CLIENT COUNTY OF LASSEN DEPARTMENT OF PUBLIC WORKS 707 NEVADA STREET SUITE 4





SEAL



		LIGHTING
	SYMBOL	DESCRIPTION
	<u> </u>	RECESSED 2X4 LUMINAIRE
	°	SURFACE MOUNTED 2X4 LUMINAIRE
	<u> </u>	RECESSED 1X4 LUMINAIRE SURFACE MOUNTED 1X4 LUMINAIRE
		RECESSED 2X2 LUMINAIRE
	•	SURFACE MOUNTED 2X2 LUMINAIRE
	•	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
		SUSPENDED LINEAR LUMINAIRE (SIZE VARIES)
		WALL MOUNTED LINEAR LUMINAIRE (SIZE VARIES)
	Ø	SUSPENDED PENDANT LUMINAIRE (SIZE VARIES)
		RECESSED DOWNLIGHT, CEILING MOUNTED
	0	SURFACE DOWNLIGHT, CEILING MOUNTED
	₩ DIRECTION→	RECESSED WALLWASH SURFACE WALLWASH
W	/W DIRECTION→	SURFACE WALLWASH RECESSED LINEAR WALLWASH
		SURFACE LINEAR WALLWASH
		RECESSED WALL MOUNTED LUMINAIRE
		TRACK LIGHTING WITH HEADS AS INDICATED.
		RECESSED CEILING ADJUSTABLE POINT SOURCE
	Ø	SURFACE CEILING ADJUSTABLE POINT SOURCE
	Ŷ	WALL MOUNTED LUMINAIRE
		WALL MOUNTED DIRECTIONAL (SIZE VARIES)
		FLUORESCENT STRIPLIGHT - POWER FEED SECTION, FEED
		THROUGH SECTION. LENGTH AS SHOWN. WALL MOUNTED FLUORESCENT STRIPLIGHT
		WALL MOUNTED FLUORESCENT STRIPLIGHT
	, — <u> </u>	CONTINUOUS LINEAR SOURCE (LED, COLD CATHODE, NEON, FIBER OPTIC, ETC)
	4_*	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE
	₩ ₩ ፼⊗	SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED. ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	Ø	BOLLARD
		POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD
	•	INDICATES ROTATED OPTICS
	 ₽	POST TOP MOUNTED LUMINAIRE
	G→	IN-GRADE POINT SOURCE
	\bowtie	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
	HA	LUMINAIRE MARKING CONVENTION LEGEND:
	 3c	HA = LUMINAIRE TYPE IDENTIFICATION. SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE
	HA o	LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION
	3A	INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE
	SW SYMBOL	ITCHING CONTROLS
	Sª	SINGLE POLE SWITCH (SUPERSCRIPT DENOTES SIMILARLY
	S ₂	MARKED LUMINAIRES CONTROLLED TOGETHER) TWO POLE SWITCH
	S_2 S_3	THREE WAY SWITCH
	S ₃	FOUR WAY SWITCH
	1	
	S _K	KEY OPERATED SWITCH
	S _K D	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT
	D	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD.
	D	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE
	D D S _P	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON").
	D	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE
	D D S _P S _{PL}	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE
	D D S _P S _{PL} S _{TS}	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH
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	D D S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE
	D D S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _T S _{OR1}	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED
	D D S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _T S _{OR1} PC	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE
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	D S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _T S _{OR1} PC • • • • •	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS.
	D D S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _T S _{OR1} PC C TC	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK
	D SP SPL STS STS SWP SV ST SOR1 PC PC TC OS	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED
	D D S _P S _{PL} S _{TS} S ^{5A} S _{WP} S _V S _T S _{OR1} PC Q TC QS OS	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED 360 DEGREE OCCUPANCY SENSOR - CEILING MTD.
	D □ S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _V S _T S _{OR1} PC □ 1 ↓ ↓ 1 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED 360 DEGREE OCCUPANCY SENSOR - CEILING MTD. CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED
	D D S _P S _{PL} S _{TS} S ^{5A} S _{WP} S _V S _T S _{OR1} PC Q TC QS OS	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED 360 DEGREE OCCUPANCY SENSOR - CEILING MTD. CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED
	D □ S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _V S _T S _{OR1} PC □ 1 ↓ ↓ 1 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF"). TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES. WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED 360 DEGREE OCCUPANCY SENSOR - CEILING MTD. CORRIDOR/AISLE OCCUPANCY SENSOR - CEILING MOUNTED
	D □ S _P S _{PL} S _{TS} \$ ^{5A} S _{WP} S _V S _T S _{OR1} PC ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	DIMMER SWITCH. NUMBER INDICATES WATTAGE RATING. IF NOT SHOWN THEN EQUAL TO LOAD. DIMMER SWITCH UNDER SEPARATE COVERPLATE SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "ON"). SWITCH WITH PILOT LIGHT (PILOT IS "ON WHEN SWITCH IS "OFF") TIMER SWITCH LOW VOLTAGE MOMENTARY CONTACT SWITCH, UPPER CASE LETTER SUPERSCRIPT INDICATES CONNECTION TO LOW VOLTAGE RELAY CONTROLLING SIMILARLY MARKED LUMINAIRES WEATHERPROOF SWITCH LINE VOLTAGE, VARIABLE SPEED FAN CONTROL SWITCH. LOCATE ADJACENT TO ADJACENT TO LIGHT SWITCHES. MOTOR-RATED THERMAL OVERLOAD SWITCH LIGHTING CONTROL OVERRIDE SWITCH. NUMBER = ZONE CONTROLLED PHOTOCELL EQUIPMENT OPERATOR PUSH BUTTON STATION. PROVIDED WITH EQUIPMENT, INSTALLED AND CONNECTED BY ELECTRICAL, UON. PUSHBUTTON OR PUSHBUTTONS. TIME CLOCK OCCUPANCY SENSOR - WALL MOUNTED 360 DEGREE OCCUPANCY SENSOR - CEILING MOUNTED THERMOSTAT - WALL, CEILING.

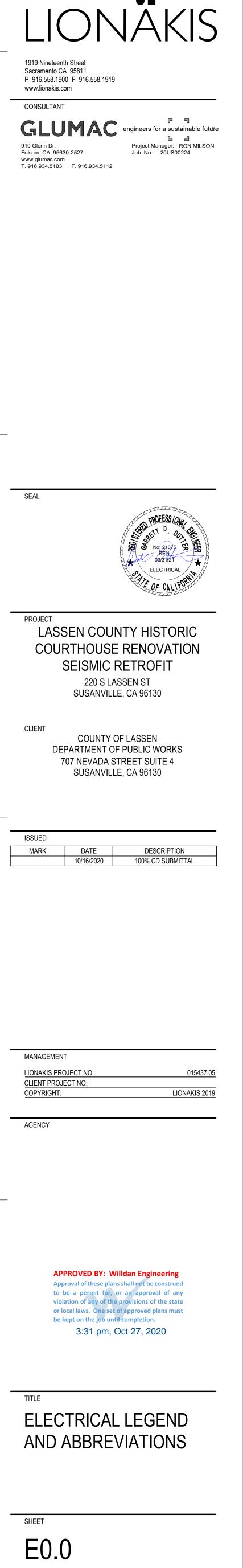
		ELECTRIC			NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.			ABBREVIATIONS			
	DIST	RIBUTION & EQUIPMENT		POWER DEVICES		EFERENCE SYN		(E) EXISTING			L CONDUIT
			SYMBOL		SYMBOL			(F) FUTURE (R) EXISTING	TO BE REMOVED	KCMIL THOUSAND CIRCULAF KN KEYED NOTE	
		BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED		SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.		KEYED NOTE REFERENCE		ÀB ABOVE CO	TO BE RELOCATED DUNTER BACKSPLASH DITIONING UNIT	KO KNOCK OUT KW KILOWATTS KVA KILOVOLT-AMPERES	
		MOUNTED MOTOR CONTROL CENTER WITH CODE CLEARANCES SHOWN,	⊨₽₫₽₽₫	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.	125.4	BRANCH CIRCUIT OR FEEDER TAG; RE AND FEEDER SCHEDULE FOR WIRE AN			TING CURRENT	LTG LIGHTING LCP LIGHTING CONTROL P	PANEL
	······································	DASHED EQUIP. = FUTURE		DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.		QUANTITY.			RATED) FUSE OR CB FRAME	MAX MAXIMUM MCA MINIMUM CIRCUIT AMI	PERES
		TRANSFORMER WITH CODE CLEARANCES SHOWN SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE		SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED	<u>1</u> E4.1	REFER TO DETAIL ON DRAWING INDIC	ATED	AFG ABOVE FI	NISHED FLOOR NISHED GRADE TY HAVING JURISDICTION	MCB MAIN CIRCUIT BREAKE MFR MANUFACTURER MIN MINIMUM	ĒR
	L	CLEARANCES SHOWN	H → AB	RECEPTACLE TYPE SHOWN -WALL -ABOVE COUNTER BACKSPLASH. SEE ARCHITECTURAL DRAWINGS.		ELEVATION TAG: REFER TO ELEVATIO	DN NUMBER ON DRAWING	AIC EQUIPME	NT SHORT CIRCUIT INTERRUPT IG (RMS SYM. AMPS)	MISC MISCELLANEOUS MLO MAIN LUGS ONLY	
	Ò	CONNECTION TO MOTOR PROVIDED BY OTHERS	"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE	E4.1	INDICATED			IC LIGHTÍNG CONTROL	MO MANUAL OPERATOR MTD MOUNTED	
C.)	VFD	CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT		CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED		SECTION TAG: REFER TO SECTION NU	JMBER ON DRAWING	AT CIRCUIT E	RATED) SWITCH BRKR TRIP SETTING (AMPS) TIC TRANSFER SWITCH	MTR MOTOR N NEUTRAL (GROUNDEE NC NORMALLY CLOSED) CONDUCTOR)
		DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT	-	DUPLEX RECEPTACLE - WALL - HALF SWITCHED	(K112)	KITCHEN EQUIPMENT TAG, REFER TO	KITCHEN EQUIPMENT	AUTO AUTOMAT AUX AUXILIAR	TC Y	NEC NATIONAL ELECTRICA -,NEG NEGATIVE	
		SCHEDULE FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER	state	CONTROLLED DUPLEX / DOUBLE DUPLEX RECEPTACLE COMBINATION SWITCH/DUPLEX RECEPTACLE		SCHEDULE MECHANICAL EQUIPMENT IDENTIFICA		AWG AMERICAI BATT BATTERY BC BARE COF	N WIRE GAUGE	NEMA NATIONAL ELECTRICA NL NIGHT LIGHT (UNSWIT NO NORMALLY OPEN	
	F	MANUFACTURER'S RECOMMENDATIONS	⊨ [⊕] s ⊨● _{GFI}	DUPLEX RECEPTACLE - WALL - WITH INTEGRAL GROUND FAULT	CH 1	MECHANICAL EQUIPMENT IDENTIFICA	TION TAG	BG BELOW G BRKR CIRCUIT E	RADE	NTS NOT TO SCALE NP NAMEPLATE	
	C	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.		CIRCUIT INTERRUPTER	EQUIP NAME	EQUIPMENT BY OTHERS IDENTIFICATI	ON TAG	CAB CABINET	(CIRCULAR RACEWAY)	OC ON CENTER OD OUTSIDE DIAMETER	
		DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.	WP WP	RECEPTACLE TYPE SHOWN W/ WEATHERPROOF COVER AND INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER		WIRING		CB CIRCUIT E CFM CUBIC FE CKT CIRCU	ET PER MINUTE	OFCI OWNER FURNISHED C ODOI OWNER FURNISHED, (OS OCCUPANCY SENSOR	OWNER INSTALLED
		MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR.	l	RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT	SYMBOL	DESCRIPT	ION	CLG CEILING CO CONDUIT		P POLE PB PUSHBUTTON	
	\square	SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.		WALL MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1		NEW WORK		CT CURRENT	ROL POWER TRANSFORMER	PH,Ø PHASE PNL PANEL	
	•	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED		COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE LIQUID- TIGHT FLEX.		WIRING CONCEALED IN FLOOR OR UN OR ROUTED IN CEILING SPACE OF FLO		CU COPPER DC DIRECT C DISC DISCONNI		+,POS POSITIVE PRI PRIMARY REQD REQUIRED	
		CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER		CLOCK HANGER RECEPTACLE	(E	EXISTING WORK TO REMAIN		DIA DIAMETER DIV DIVISION		RNC RIGID NON-METALLIC RS RAPID START	CONDUIT (PVC)
		SOURCE NOTED		FLUSH FLOOR BOX DEVICE - DEVICE TYPE PER SYMBOLS ABOVE		R) EXISTING RELOCATED		DPDT DOUBLE F	TION PANEL POLE DOUBLE THROW	RST REMOTE STATION TR/ SAD SEE ARCHITECTURAL	
		EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED		PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE POKE THRU UNIT WITH DUPLEX RECEPTACLE - FLUSH, PEDESTAL) EXISTING WORK TO BE REMOVED		DPST DOUBLE F DWG DRAWING E,EMER EMERGEN		SEC SECONDARY SN SHEET NOTE SOL SOLENOID	
		DAMPER MOTOR		MOUNTED.	П — — — (F,	TELEPHONE SYSTEM CONDUIT		EF EXHAUST		SPD SURGE PROTECTION SPDT SINGLE POLE DOUBLE	
		BUSWAY RISER		POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.	MV	MEDIUM VOLTAGE CONDUIT		ENCL ENCLOSU	RE CALLY OPERATED	SPST SINGLE POLE SINGLE SUB SUBSTATION	
	«C «F	BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED.		COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND	G	BARE GROUNDING GRID OR CONDUC	TORS, UON.	EWC ELECTRIC	DF LINE CWATER COOLER	SWBD SWITCHBOARD SWGR SWITCHGEAR	
				TELEPHONE OUTLET - FLUSH, PEDESTAL MOUNTED. MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR -	GC	GROUNDING CONDUCTOR(S) ROUTED	D IN CODE SIZED CONDUIT,	FA FIRE ALAF	C WATER HEATER RM RM ANNUNCIATOR	TB TERMINAL BOARD TDC TIME DELAY CLOSING TDO TIME DELAY OPENING	
		DIAGRAMS		SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.	 	STROKES INDICATE QUANTITY OF #12	2 AWG. CONDUCTORS, UON.	FACP FIRE ALAF	RM CONTROL PANEL ED BY OTHERS	TEL TELEPHONE TYP TYPICAL	
	SYMBOL	DESCRIPTION		POKE THRU UNIT WITH JUNCTION BOX. RACEWAY COMPONENTS	ΨΓ	NOTE: WIRING STROKES FOR 20A BRA SHOWN ON DRAWINGS. CONTRACTOR	R SHALL USE INFORMATION		OOR MOUNTED	UF UNDERFLOOR UG UNDERGROUND	
RE		AUTOMATIC TRANSFER SWITCH (ATS)		RC-700 SERIES. TELE/POWER POLE, POWER POLE		IN PANEL AND BRANCH CIRCUIT SCHE REQUIRED CIRCUITING.	EDULES TO PROVIDE	FLA FULL LOA FLEX FLEXIBLE FPB FAN POW		UL UNDERWRITERS LAB UON UNLESS OTHERWISE I UPS UNINTERRUPTIBLE PC	NOTED
S,	~~~~	AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE		TELE/POWER POLE WITH WHIP CONNECTION TO ELECTRIFIED	│	GROUND		FSD FIRE/S	SMOKE DAMPER ALL MOUNTED	UTX UTILITY TRANSFORME V VOLTS	
	-~~-	BYPASS(BIATS) OVERLOADS		FURNITURE				FU FUSE GEN GENERAT		VA VOLT-AMPERES VFD VARIABLE FREQUENC	Y DRIVE
	``	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS	(J ====	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, BACK LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.		NEUTRAL HOME RUN WIRING TO INDICATED DE	STINATION 2/4"C MINL OD AS	G,GND GROUND	FAULT CIRCUIT INTERRUPTER	W WATT W/ WITH W/O WITHOUT	
		NORMALLY OPEN CONTACTOR OR RELAY CONTACTS		TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH	L1A-1,3	OTHERWISE NOTED. CONTRACTOR SI NOTED IN RESPECTIVE SCHEDULES A	HALL USE CIRCUIT SIZES		ZED RIGID STEEL CONDUIT	WP WEATHERPROOF XFR TRANSFORMER	
		BUS DUCT		RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS		FEEDER AND BRANCH CIRCUIT SCHEI		HP HORSEPC HPF HIGH		XP EXPLOSION PROOF Z ZONE	
		BUS BAR		REQUIRED.	HD1AO	CONDUIT RUN TURNED UP THROUGH FIREPROOF AS REQUIRED.	FLOOR OR CEILING. CORE &		YCLES PER SECOND)	",IN INCHES ',FT FEET Ø PHASE	
		BATTERY GENERAL	TX	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER. CONCEAL FROM VIEW.	o	CONDUIT RUN TURNED DOWN THROU CORE & FIREPROOF AS REQUIRED.	JGH FLOOR OR CEILING.		TING ENGINEERING SOCIETY AL BRANCH CIRCUIT AMETER	Ø PHASE > GREATER THAN < LESS THAN	
	—-\\\\- >>	RESISTOR CONNECTOR, FEMALE AND MALE RESPECTIVELY]	CONDUIT STUBBED OUT AT LOCATION		IG ISOLATED		> GREATER THAN OR E	QUAL TO
		PIPE GROUND		SIGNAL DEVICES		PROVIDE INSULATED BUSHING & PULI			ELECTRICAL	DRAWING LIS	эт
	C	CONTACTOR COIL		DESCRIPTION TERMINAL/MOUNTING BOARD, 8' HIGH, 3/4"x4'x WIDTH AS SHOWN,		EXTEND TO ACCESSIBLE TILE CLG. BO BUSHINGS. (1) 1.25" CO UON. COORDI	OTH SIDES. TERMINATE WITH	SHEET			
	R	RELAY COIL		FIRE RETARDANT TREATED PLYWOOD. SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED- SURFACE,		CABLE INSTALLER(S) PRIOR TO ROUG		NUMBER	-	SHEET NAME	
	 D	LIGHTNING SURGE ARRESTOR D = DISTRIBUTION CLASS I = INTERMEDIATE CLASS		RECESSED MOUNTED		BASKET TYPE CABLE TRAY WITH 90 D		E0.0 E0.2	ELECTRICAL LEGEND AND ABBREV BASIS OF DESIGN AND LIGHTING S		
	SPD	SURGE PROTECTION DEVICE		COMBO TELEPHONE/DATA OUTLET - WALL		JUNCTION BOXES, WALL, CEILING AND	D FLUSH FLOOR MOUNTED.	E1.1 E3.1	ELECTRICAL SITE PLAN BASEMENT ELECTRICAL PLAN		
	U	CURRENT TRANSFORMER	■ ● ● W	TELEPHONE OUTLET - WALL, W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HEIGHT DETAIL		4" SQ. BOX MIN., LARGER IF REQUIRED WIRING EXTENSION POINT - CONDUIT		E5.1 E5.2	SINGLE LINE DIAGRAM PANELBOARD SCHEDULES		
	$\rightarrow \vdash$			DATA OUTLET - WALL		MANUFACTURED WIRING SYSTEM J-B CEILINGS AREAS, OR EXTEND CONDU	OX ABOVE ACCESSIBLE	E6.1 E9.1	ENLARGED ELECTRICAL PLANS ELECTRICAL DETAILS		
		NORMALLY OPEN PUSH BUTTON		SPEAKER - WALL, CEILING		"HARD" CEILING AREAS. SHADED= ON (EMERG,UPS,ETC.)		E9.2 ET24.1	ELECTRICAL DETAILS ELECTRICAL TITLE 24 DOCUMENTA	TION - INDOOR	
	<u>-</u> []-•	FUSED VOLTAGE SENSE LEADS		VOLUME CONTROL - WALL BELL	РВ	PULL BOX, MIN. SIZE PER NEC., UON.		ET24.2 ET24.3	ELECTRICAL TITLE 24 DOCUMENTA ELECTRICAL TITLE 24 DOCUMENTA		
	PF	METER: POWER FACTOR		BUZZER	<u>₩Ţ₩₽</u> ₽Ţ₩	UNDERFLOOR RACEWAY					
рт	KWH	METER: KILOWATT HOUR		CHIME		FLEXIBLE CONDUIT CONNECTION					
	Ŭ	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED.	-© ©	SYSTEM CLOCK - WALL , CEILING	EZZ	POWER CONNECTION TO DIV 15 FIRE/ FSD CONNECTION DETAIL IF NOT SHO					
).		SQUARE = REMOTE MOUNTED		INTERCOM STATION - WALL, DESK. M = MASTER STATION			STEM				
").	DMU	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.		MICROPHONE JACK - WALL, FLOOR	SYMBOL						
		TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR		PUSHBUTTON OR PUSHBUTTONS RF COAX CABLE OUTLET (TV, VCR, ETC.)	G	BARE GROUNDING GRID OR CONDUC					
:S.		CONDUCTOR INSTALLED.		COMBINATION RF COAX CABLE AND DATA OUTLET	GC	GROUNDING CONDUCTOR(S) ROUTED	D IN CODE SIZED CONDUIT,				
	X	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G= GREEN, B= BLUE, Y= YELLOW, W= WHITE		RF COAX CABLE SIGNAL SPLITTER	0	GROUND GRID BOND POINT					
TE	\bigtriangleup	DELTA CONNECTION	S⊲ PA	PAGING SYSTEM HORN (OUTDOOR)	-	GROUND GRID BOND POINT - MECHAN					
	Y <u> </u>	GROUNDED WYE CONNECTION	-AV	AV INPUT OUTLET, 1"C WITH 3-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.	•	GROUND GRID BOND POINT - EXOTHE	ERMIC WELD CONNECTION				
	⊥_ 100AT	CONNECTION TO GROUND CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING		ASSISTIVE LISTENING INFRARED TRANSMITTER PANEL, 1"C WITH		GROUND BAR, SEE PLANS AND SPECI AND REQUIREMENTS	FICATIONS FOR DIMENSIONS				
	225AF ,			2-GANG BOX. CONDUIT STUBBED ABOVE ACCESSIBLE TILE CEILING.	•	GROUND ROD LOCATION					
тн	225AF 400AS 	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING		RF COAX CABLE DISTRIBUTION AMPLIFIER. PROVIDE 120V POWER AS REQUIRED OR AS INDICATED. SEE RISER DIAGRAM.		GROUND ROD IN TEST WELL					
N.		INDIVIDUALLY MOUNTED CIRCUIT BREAKER	•	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE		LIGHTNING PROTECTION PARAPET M					
		CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT		PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE		LIGHTNING PROTECTION MID ROOF N					
			S _D S _D	DUAL COIL SPEAKER - SURFACE CEILING, RECESSED CEILING.		LIGHTNING PROTECTION AIR TERMIN					
	GF BA	GROUND FAULT TRIP UNIT BELL ALARM TRIP MODULE CONTACTS									
	BA]	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED		ELEC	TRICAL	EQUIPMENT N	AMING CON	VENTIC	ON LEGEND		
	AM	INTEGRAL AMMETER DISPLAY	EXAM		QUIPMENT TY	PE	VOLTAGE		ADDITIONAL DESIGNATION	FLOOR	
	(K)	KEY INTERLOCK	DP- L	M 1 ATS - AUTOMATIC TRANSFER SWI D 1 XFR - TRANSFORMER	DF	VBD - SWITCHBOARD P - DISTRIBUTION PANEL	H - 480/277 VOLT L - 208/120 VOLT	BLA	letter) (2nd letter) NK - PANEL P - PLUGLOAD	1 - BASEMENT	
		CAPACITOR, POWER FACTOR CORRECTION, SIZE IN KVAR	XFR- H SWBD- H PNL- H	I L 1 UTX - UTILITY MAIN TRANSFORME I SN 1 CB - ENCLOSED CIRCUIT BREAKE I K 2		NL - BRANCH PANEL		D - [DISTRIBUTION PNL L - LIGHTING M - MECHANICAL		
	Ē	GENERATOR		ADDN'L DESIG.							
	-[]-	FUSE, HOLDER & PULLER	EQUIP. SYS TYPE VOLT								

3

4

5

Т ТҮРЕ	VOLTAGE		DESIGNATION	FLOOR	
SWBD - SWITCHBOARD DP - DISTRIBUTION PANEL PNL - BRANCH PANEL	H - 480/277 VOLT L - 208/120 VOLT	(1st letter) BLANK - PANEL D - DISTRIBUTION PNL	(2nd letter) P - PLUGLOAD L - LIGHTING M - MECHANICAL	1 - BASEMENT	



-		1	
0 1/4" 1/2" 1" 2"			
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY			
С			
В			
C:\Users\bali.sanghera\Documents\015437.04_BIM_MEP-MASTER_R20_CENTRAL_bsangheraMUTSS.RVT >		JUNCTION BOX WITH VOICE DEMAND RESPONSE CONNE	120V 24VD POW IN 1°C TO NETWORK ROOM. PROVIDE ZDATA OUTLET AND LABEL AS "FOR ECTION TO UTILITY". FINAL UTILITY ED UNDER THIS SCOPE OF WORK.
10/15/2020 10:18:35 AM		1 SCALE: NONE	SHOWN FOR REFERENCE: WILL BE UTILIZED IN PHASE 3.

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	LAMP	COLOR TEMP	MANUFACTURER	MODEL	VOLTAGE	LOAD	MOUNTING	
C1	4' LINEAR SURFACE	LED	3500K	HE WILLIAMS	LLM-4-L10/935-S-SQ-D-EM/10WLP-UNV	120 V	28.8 W	WALL	10\
H1	LINEAR STRIPLIGHT	LED	3500K	HE WILLIAMS	LLM-4-L10/935-S-SQ-D-UNV	277 V	28.8 W	SURFACE	
H1E	4' LINEAR STRIPLIGHT	LED	3500K	HE WILLIAMS	LLM-4-L10/935-S-SQ-EM/10WLP-UNV	277 V	28.8 W	SURFACE	10\
H2E	4' SUSPENDED STRIP	LED	3500K	AXIS LIGHTING	WBLED-900-90-35-S-4-BLK-UNV-DP-1-SA(18)-B#- F-OS#	277 V	39.6 W	SUSPENDED	10\ HIC
S1	HALF ROUND	LED	3000K	LITHONIA	ARC2 LED-P4-30K-MVOLT-E8WC-PE-DBLXD-	277 V	30.0 W	WALL	EМ

GENERAL NOTES:

A. CONTRACTOR TO SUBMIT CUTSHEETS OF ALTERNATE AND APPROVED MANUFACTURERS PRODUCT ALONG WITH CUTSHEETS OF SPECIFIED FIXTURE FOR REVIEW AND APPROVAL BY ENGINEER. B. SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO EMERGENCY BATTERY PACK.

C. CONTRACTOR IS RESPONSIBLE TO VERIFY CEILING TYPE AND THICKNESS, AND PROVIDE REQUIRED LUMINAIRE MOUNTING TRIMS AND BRACKETS FOR ALL FIXTURE TYPES. D. CONTRACTOR IS RESPONSIBLE TO VERIFY SINGLE OR DOUBLE FACE AND MOUNTING OF EXIT SIGNS WITH LIGHTING PLANS AND RACHITECTURAL CEILING PLANS AND PROVIDE WALL MOUNTING BRACKETS, CEILING

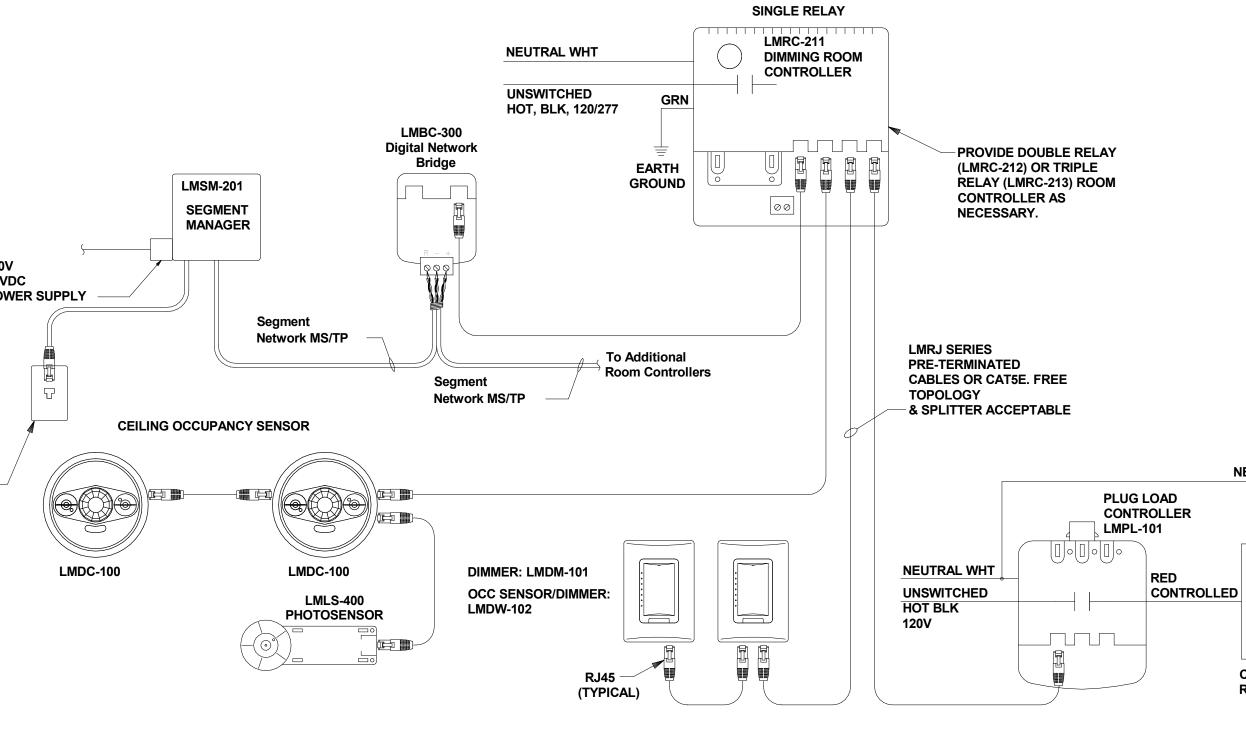
MOUNTING BRACKETS AND/OR PENDANTS AS REQUIRED. E. IN LOCATIONS WHERE DUCT WORK RUNS OVER THE TOP OF RECESSED LUMINAIRES, THE LUMINAIRES AT THESE LOCATIONS WILL BE HORIZONTALLY SUPPORTED TO AVOID UNNECCESSARY DUCT PENETRATIONS. LUMINAIRES ARE TO BE SUPPORTED BY THE CEILING SYSTEM OR BUILDING STRUCTURE ONLY.

F. VERIFY MOUNTING HEIGHTS AND CEILING TYPES WITH ARCHITECT.

	LCP SCHE	DU	LE		
			CIRC	UITING	
LIGHTING ZONE	DESCRIPTION	VOLTS	PANEL	CIRCUIT	CONTROL
A	STAIRWELL	277	HL1	3	TCO, TCF
В	SPARE	277			
С	SPARE	277			
D	SPARE	277			
F	SPARE	277			
G	SPARE	277			
Н	SPARE	277			
J	SPARE	277			
K	SPARE	277			
L	SPARE	277			
М	SPARE	277			
N	SPARE	277			
0	SPARE	277			
Р	SPARE	277			
Q	SPARE	277			
R	SPARE	277			

NOTES: 1. TCO (TIME CLOCK ON), TCF (TIME CLOCK OFF)

2. PCO (PHOTOCELL ON), PCF (PHOTOCELL OFF) 3. SPARE RELAY CIRCUITS WILL BE UTILIZED IN PHASE 3 OF PROJECT.



GRAM, OR APPROVED EQUAL

COMMENTS
0W EMERGENCY BATTERY PACK
0W EMERGENCY BATTERY PACK
0W EMERGENCY BATTERY PACK, WET LOCATION RATED, INTEGRAL IIGH/LOW OCCUPANCY SENSOR

4

EMERGENCY BATTERY PACK, WET LOCATION RATED, INTEGRAL PHOTOCELL DUSK-TO-DAWN OPERATION

ELECTRICAL - BASIS OF DESIGN

A. CODES AND STANDARDS

- AMERICANS WITH DISABILITIES ACT, (ADA) 2. NFPA 70E: STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE 3. NFPA 101, LIFE SAFETY CODE: 2012 EDITION
- 4. NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS: 2016 EDITION
- 5. CALIFORNIA BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
 - A. 2019 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (BASED ON THE 2018 INTERNATIONAL BUILDING CODE WITH STATE AMENDMENTS). B. 2019 CALIFORNIA FIRE CODE (CFC), CALIFORNIA CODE OF REGULATIONS,
 - TITLE-24, PART 9 (BASED ON THE 2018 UNIFORM FIRE CODE WITH STATE AMENDMENTS). C. 2019 CALIFORNIA ELECTRICAL CODE (CEC), BASED ON THE 2017 NATIONAL
 - ELECTRICAL CODE (NEC) WITH STATE AMENDMENTS. D. 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR
- NONRESIDENTIAL COMPLIANCE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6. 6. LASSEN MUNICIPAL UTILITY DISTRICT (LMUD) STANDARDS
- B. POWER DESIGN
- 1. DESIGN VOLTAGES: A. 480VAC, 3-PHASE, 3-WIRE MOTOR LOADS RATED 3 HP AND LARGER.
- B. 277VAC: INTERIOR AND EXTERIOR LIGHTING.
- C. 208VAC: 1 AND 3-PHASE EQUIPMENT AND MOTORS FROM ³/₄ HP TO 2 HP. D. 120V: RECEPTACLES, EQUIPMENT, AND MOTORS ¹/₂ HP AND SMALLER.

ELECTRICAL SYSTEMS

- A. NORMAL POWER 1. A 600A ELECTRICAL SERVICE AT 480V, 3PH, 4W SHALL BE PROVIDED BY A PAD MOUNTED LMUD TRANSFORMER LOCATED ON SITE. SECONDARY CONDUCTORS SHALL DELIVER POWER FROM THE TRANSFORMER TO A 600A RATED SERVICE ENTRANCE AUTOMATIC TRANSFER SWITCH THAT INCLUDES A 600A MAIN CIRCUIT BREAKER. THE TRANSFER SWITCH SHALL FEED THE MAIN SWITCHBOARD.
- 2. FEEDER BREAKERS SHALL DISTRIBUTE POWER TO MAJOR LOADS WITHIN THE BUILDING, INCLUDING:
- A. POWER TO EQUIPMENT IN THE MAIN ELECTRICAL ROOM. BREAKERS WILL BE PROVIDED FOR THE ENTIRETY OF THE REMODELED COURTHOUSE TO BE COMPLETED IN PHASE 3.
- B. CODE MINIMUM PROVISIONS FOR FUTURE PHOTOVOLTAIC SYSTEM C. ELEVATOR
- 3. FEEDERS WITHIN BUILDINGS SHALL BE INDIVIDUAL CONDUCTORS INSTALLED IN METAL CONDUIT.
- 4. PHOTOVOLTAIC SYSTEM A. THE MAIN SWITCHBOARD SHALL HAVE A SPACE FOR A CIRCUIT BREAKER TO SUPPORT THE FUTURE PHOTOVOLTAIC SYSTEM. A PHOTOVOLTAIC SYSTEM IS NOT PLANNED TO BE INSTALLED AS PART OF THIS PROJECT.
- 5. PANEL BOARDS A. PANELBOARD CONSTRUCTION SHALL INCLUDE DOOR-IN-DOOR FEATURES TO FACILITATE MAINTENANCE AND INCLUDE 20% SPARE CAPACITY AND BREAKER SPACE.
- 6. TRANSFORMERS

A. TYPICAL STEPDOWN TRANSFORMERS (480V – 208/120V) FOR NORMAL POWER SERVICE SHALL BE SIZED APPROPRIATELY TO MATCH THE RATINGS OF PANELBOARDS. INDOOR TRANSFORMERS SHALL HAVE NEMA 1 ENCLOSURES AND BE LOCATED IN ELECTRICAL ROOMS. TEMPERATURE RISE ABOVE AMBIENT SHALL NOT EXCEED 115 DEGREES.

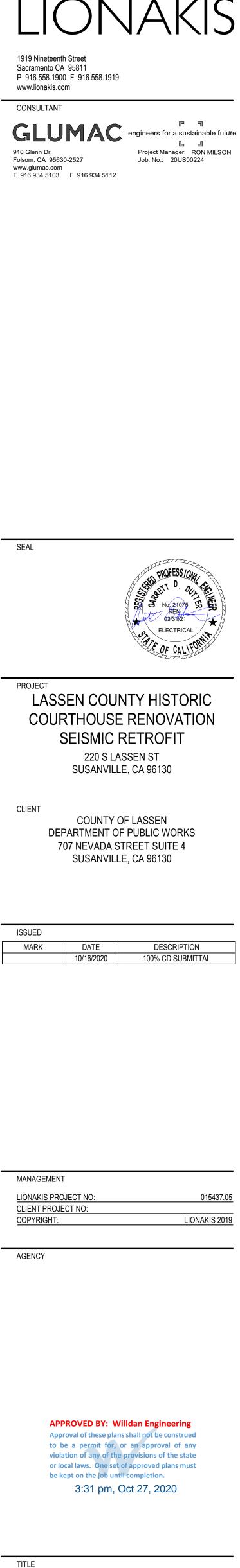
- B. FUTURE GENERATOR POWER 1. PROVISIONS SHALL BE MADE FOR A STANDBY (NON-EMERGENCY) GENERATOR TO BE ADDED TO THE BUILDING IN THE FUTURE. SPACE SHALL BE SET ASIDE FOR THE GENERATOR NEXT TO THE EXISTING GENERATOR.
- 2. PROVIDE A SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH AHEAD OF THE MAIN SWITCHBOARD TO SERVE ENTIRE BUILDING LOAD. AUTOMATIC TRANSFER SWITCH TO BE RATED FOR 600 AMPS AT 480/277V, 3-PHASE, 4-POLE.
- 3. INSTALL ALL POWER AND LOW VOLTAGE CONDUITS IN AND OUT OF THE ATS. CAPTURE CONDUITS TO FUTURE GENERATOR IN PULL BOX NEAR LOCATION OF FUTURE GENERATOR NEAR EXISTING GENERATOR.
- C. LIGHTING 1. EMERGENCY EGRESS FIXTURES SHALL INCLUDE AN INTEGRAL BATTERY BACKUP SUPPLY.
- D. MISCELLANEOUS POWER
- 1. POWER METERING A. A FULLY NETWORKED POWER METERING SYSTEM SHALL BE EMPLOYED THROUGHOUT THE BUILDING. ALL BRANCH PANELS SHALL BE METERED AT THE INCOMING MAIN ONLY.
- 2. GROUNDING SYSTEM A. MAIN BUILDING GROUND BUS – ONE 24" W X 4" H X 1/4" THICK COPPER BUS BAR SHALL BE PROVIDED. #3/0 GROUND CONDUCTOR SHALL BE PROVIDED TO BOND TO BUILDING STEEL AND BUILDING GROUNDING ELECTRODE. PROVIDE #
- 3/0 AWG BONDS TO COLD WATER AND GAS PIPE SYSTEMS. B. TELECOM ROOMS – PROVIDE 12"W X 4"H " 1/4" THICK COPPER BUS BAR IN MDF WITH GROUNDING CONNECTION BACK TO MAIN BUILDING GROUND BUS BAR
- PER TELECOM REQUIREMENTS. 3. ELEVATOR POWER A. ELEVATOR SHALL BE SERVED DIRECTLY FROM THE MAIN SWITCHBOARD. B. POWER FOR ELEVATOR CONTROLLER, DISCONNECT, CAB LIGHTING.
- E. LOW VOLTAGE
- 1. NEW FIBER CONNECTIONS SHALL BE PROVIDED FROM THE ANNEX BUILDING TO THE NEW COURTHOUSE VIA EXISTING PATHWAYS. INTERCEPT AND EXTEND LOW VOLTAGE CONDUIT TO NEW MPOE IN COURTHOUSE. 2. LOW VOLTAGE DESIGN BY COUNTY SUB-CONSULTANT.
- FIRE ALARM DESIGN BY COUNTY SUB-CONSULTANT. ELECTRICAL CONTRACTOR TO PROVIDE 120V CIRCUIT.

NEUTRAL WHT



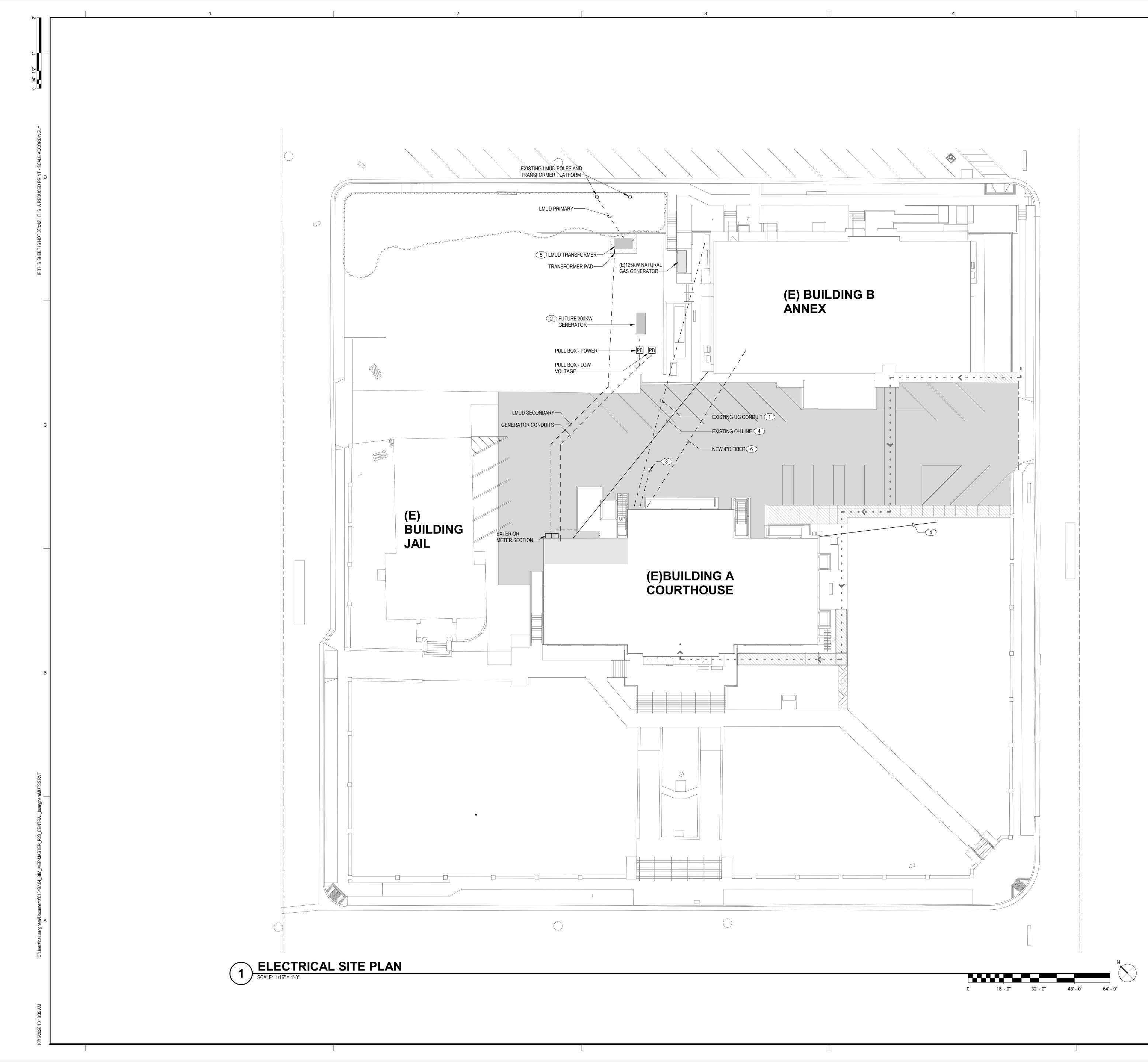
NEUTRAL WHT

CONTROLLED CONTROLLED QUAD RECEPTACLE



BASIS OF DESIGN AND LIGHTING SCHEDULES



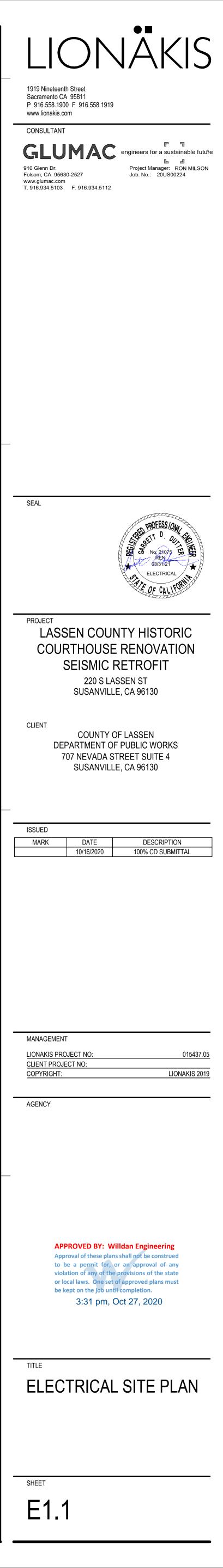


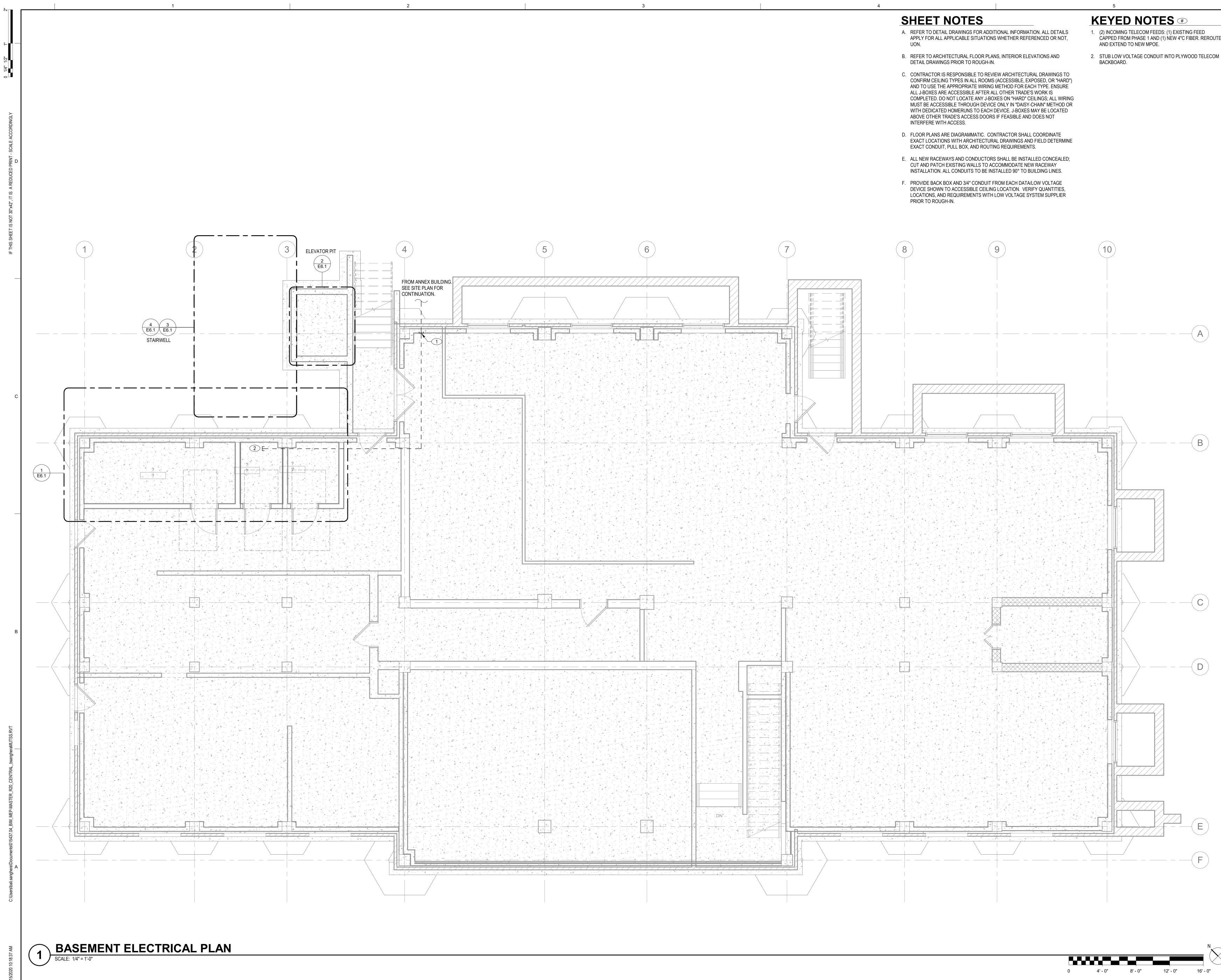
SHEET NOTES

- A. ALL EXISTING POWER SERVING THE ANNEX BUILDING TO REMAIN.
- B. CONTRACTOR TO COMPLY WITH LMUD DESIGN STANDARDS.
- C. PROVIDE SLEEVE WITH WATER-PROOF SEAL ON ALL EXTERIOR CONDUIT PENETRATIONS INTO COURTHOUSE PER SPECIFICATIONS.

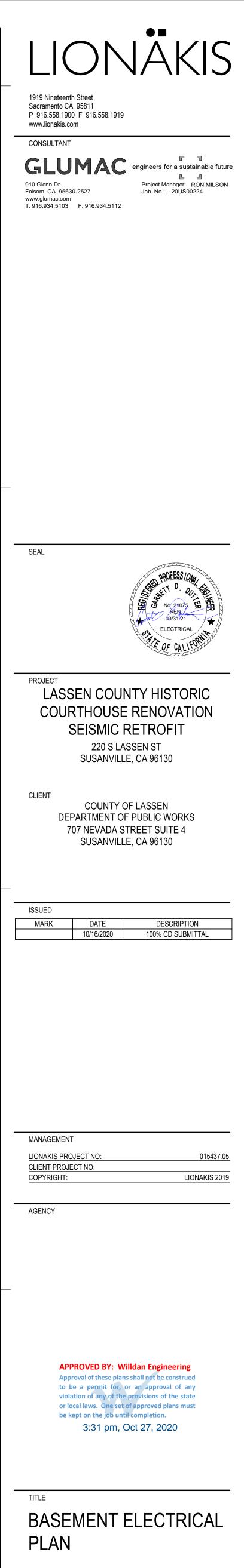
KEYED NOTES (#)

- 1. UNDERGROUND FEEDER TO MAIN SWITCHBOARD AT ANNEX EXTERIOR. EXISTING POWER TO BE MAINTAINED DURING DEMO AND SEISMIC PHASES AND REMOVED DURING TENANT IMPROVEMENT PHASE AFTER NEW POWER IS PROVIDED TO COURTHOUSE. SEE PHASE 1 DRAWING PACKAGE.
- PROVIDE THE FOLLOWING CONDUITS FOR THE FUTURE GENERATOR. STUB EACH CONDUIT TO PULL BOX AND PROVIDE PULL STRING AND CAP AT THE END.
 A. FEEDER CONDUITS TO SERVICE ENTRANCED RATED
- ATS (SEE SINGLE LINE DIAGRAM FOR SIZE). B. 1"C TO PANEL LP1 FOR SERVICE RECEPTACLE, BLOCK
- HEATER AND BATTERY CHARGER. C. 1"C TO MAIN ELECTRICAL ROOM FOR REMOTE
- ANNUNCIATOR. D. 1"C TO BMS PANEL.
- E. 1"C TO FACP
- F. 1"C TO ATS FOR AUTOMATIC TRANSFER START.G. 1"C SPARE TO MAIN ELECTRICAL ROOM.
- 3. EXISTING UNDERGROUND TELECOM FEED TO COURTHOUSE TO REMAIN THROUGHOUT ALL PHASES OF PROJECT. EXISTING UNDERGROUND CONDUIT TO BE REUSED WHERE POSSIBLE DURING TENANT IMPROVEMENT PHASE OF PROJECT. COUNTY WILL PULL AND COIL FEED WITHIN BUILDING BACK TO POINT OF ENTRY. REMOVE AND REPLACE RUSTED FLEX CONDUIT RISER INTO COURTHOUSE BUILDING DURING TI PHASE.
- 4. MAINTAIN EXISTING OVERHEAD CIRCUIT TO WALL MOUNTED SITE LIGHTING FIXTURE. RE-ROUTE OVERHEAD FEED AS NEEDED TO ACCOMMODATE ELEVATOR AND STAIRS IN PHASE 2. FIXTURE AND CIRCUIT TO BE REMOVED DURING PHASE 3.
- 5. COORDINATE LOCATION OF NEW TRANSFORMER WITH OWNER AND LMUD REQUIREMENTS.
- 6. UTILIZE EXISTING 4"C TO PROVIDE NEW FIBER CONNECTION FROM EXISTING ANNEX DATA CENTER TO TERMINATE IN NEW COURTHOUSE MPOE. COORDINATE TERMINATION POINT IN ANNEX AND CONDUIT ROUTING/REQUIREMENTS WITH OWNER.

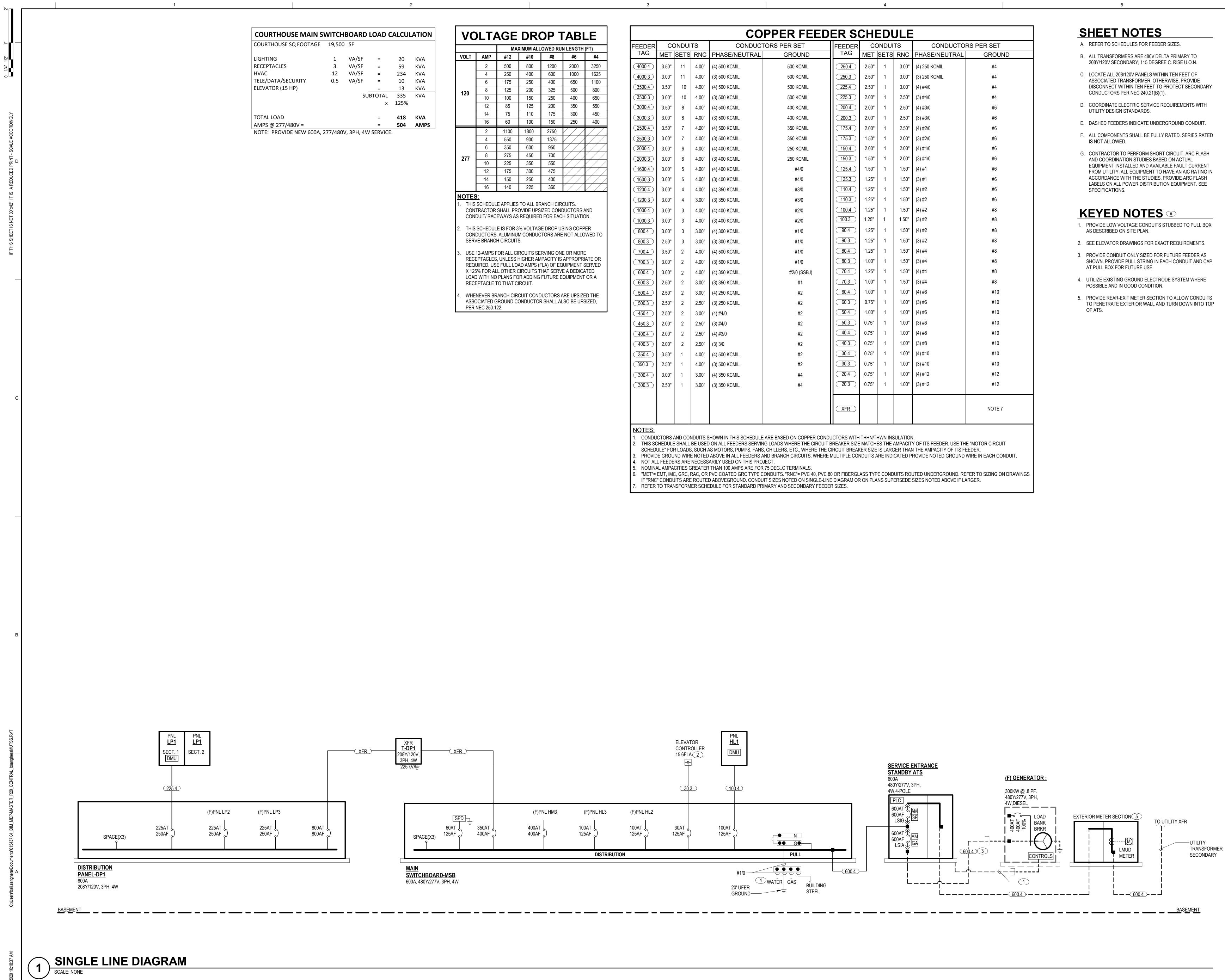




- 1. (2) INCOMING TELECOM FEEDS: (1) EXISTING FEED CAPPED FROM PHASE 1 AND (1) NEW 4"C FIBER. REROUTE



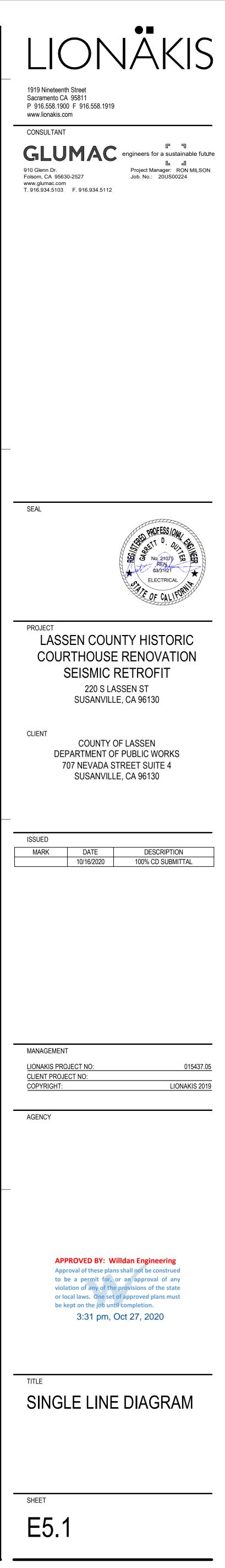
SHEET E3.1



20	KVA
59	KVA
234	KVA
10	KVA
13	KVA
335	KVA
125%	
418	KVA
504	

		MAX	XIMUM ALL	OWED RU	N LENGTH	(FT)
VOLT	AMP	#12	#10	#8	#6	#4
	2	500	800	1200	2000	3250
	4	250	400	600	1000	1625
	6	175	250	400	650	1100
120	8	125	200	325	500	800
120	10	100	150	250	400	650
	12	85	125	200	350	550
	14	75	110	175	300	450
	16	60	100	150	250	400
	2	1100	1800	2750	/ / /	
	4	550	900	1375		
	6	350	600	950		
277	8	275	450	700		
211	10	225	350	550		
	12	175	300	475		
			250	400	$\langle / / \rangle$	
	14	150				

EEDER	CC	ONDUI	TS	CONDUCT	ORS PER SET	FEEDER	CC	ONDUI	TS	CONDUCTOF	RS PER SET
TAG	MET	SETS	RNC	PHASE/NEUTRAL	GROUND	TAG	MET	SETS	RNC	PHASE/NEUTRAL	GROUND
4000.4	3.50"	11	4.00"	(4) 500 KCMIL	500 KCMIL	250.4	2.50"	1	3.00"	(4) 250 KCMIL	#4
4000.3	3.00"	11	4.00"	(3) 500 KCMIL	500 KCMIL	250.3	2.50"	1	3.00"	(3) 250 KCMIL	#4
3500.4	3.50"	10	4.00"	(4) 500 KCMIL	500 KCMIL	225.4	2.50"	1	3.00"	(4) #4/0	#4
3500.3	3.00"	10	4.00"	(3) 500 KCMIL	500 KCMIL	225.3	2.00"	1	2.50"	(3) #4/0	#4
3000.4	3.50"	8	4.00"	(4) 500 KCMIL	400 KCMIL	200.4	2.00"	1	2.50"	(4) #3/0	#6
3000.3	3.00"	8	4.00"	(3) 500 KCMIL	400 KCMIL	200.3	2.00"	1	2.50"	(3) #3/0	#6
2500.4	3.50"	7	4.00"	(4) 500 KCMIL	350 KCMIL	175.4	2.00"	1	2.50"	(4) #2/0	#6
2500.3	3.00"	7	4.00"	(3) 500 KCMIL	350 KCMIL	175.3	1.50"	1	2.00"	(3) #2/0	#6
2000.4	3.00"	6	4.00"	(4) 400 KCMIL	250 KCMIL	150.4	2.00"	1	2.00"	(4) #1/0	#6
2000.3	3.00"	6	4.00"	(3) 400 KCMIL	250 KCMIL	150.3	1.50"	1	2.00"	(3) #1/0	#6
1600.4	3.00"	5	4.00"	(4) 400 KCMIL	#4/0	125.4	1.50"	1	1.50"	(4) #1	#6
1600.3	3.00"	5	4.00"	(3) 400 KCMIL	#4/0	125.3	1.25"	1	1.50"	(3) #1	#6
1200.4	3.00"	4	4.00"	(4) 350 KCMIL	#3/0	110.4	1.25"	1	1.50"	(4) #2	#6
1200.3	3.00"	4	3.00"	(3) 350 KCMIL	#3/0	110.3	1.25"	1	1.50"	(3) #2	#6
1000.4	3.00"	3	4.00"	(4) 400 KCMIL	#2/0	100.4	1.25"	1	1.50"	(4) #2	#8
1000.3	3.00"	3	4.00"	(3) 400 KCMIL	#2/0	100.3	1.25"	1	1.50"	(3) #2	#8
800.4	3.00"	3	3.00"	(4) 300 KCMIL	#1/0	90.4	1.25"	1	1.50"	(4) #2	#8
800.3	2.50"	3	3.00"	(3) 300 KCMIL	#1/0	90.3	1.25"	1	1.50"	(3) #2	#8
700.4	3.50"	2	4.00"	(4) 500 KCMIL	#1/0	80.4	1.25"	1	1.50"	(4) #4	#8
700.3	3.00"	2	4.00"	(3) 500 KCMIL	#1/0	80.3	1.00"	1	1.50"	(3) #4	#8
600.4	3.00"	2	4.00"	(4) 350 KCMIL	#2/0 (SSBJ)	70.4	1.25"	1	1.50"	(4) #4	#8
600.3	2.50"	2	3.00"	(3) 350 KCMIL	#1	70.3	1.00"	1	1.50"	(3) #4	#8
500.4	2.50"	2	3.00"	(4) 250 KCMIL	#2	60.4	1.00"	1	1.00"	(4) #6	#10
500.3	2.50"	2	2.50"	(3) 250 KCMIL	#2	60.3	0.75"	1	1.00"	(3) #6	#10
450.4	2.50"	2	3.00"	(4) #4/0	#2	50.4	1.00"	1	1.00"	(4) #6	#10
450.3	2.00"	2	2.50"	(3) #4/0	#2	50.3	0.75"	1	1.00"	(3) #6	#10
400.4	2.00"	2	2.50"	(4) #3/0	#2	40.4	0.75"	1	1.00"	(4) #8	#10
400.3	2.00"	2	2.50"	(3) 3/0	#2	40.3	0.75"	1	1.00"	(3) #8	#10
350.4	3.50"	1	4.00"	(4) 500 KCMIL	#2	30.4	0.75"	1	1.00"	(4) #10	#10
350.3	2.50"	1	4.00"	(3) 500 KCMIL	#2	30.3	0.75"	1	1.00"	(3) #10	#10
300.4	3.00"	1	3.00"	(4) 350 KCMIL	#4	20.4	0.75"	1	1.00"	(4) #12	#12
300.3	2.50"	1	3.00"	(3) 350 KCMIL	#4	20.3	0.75"	1	1.00"	(3) #12	#12
						XFR					



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SWITCHBOARD-MSB VOLTAGE: 480Y/277V, 3PH, 4W INTEGRAL SPD: No NEMA RATING: Mounting: Pad POWER SOURCE TYPE: NORMAL LOCATION: Room B01 MAIN AMPS/ TYPE: 600 A/MLO AIC RATING: 65K BUS AMPS: 600 A SUPPLY FROM: NO.of LOAD FRAME SIZE TRIP RATING G FEEDER TAG Скт **CIRCUIT DESCRIPTION** REMARKS Α В С 1T-DP12HL13ELEVATOR CONTROLLER4(F)PNL HL25(F)PNL HL36(F)PNL HM37SPD8SPACE9SPACE10SPACE

 3
 L; M;...
 400 A
 350 A
 XFR
 3.19 kVA
 2.34 kVA
 3.48 kVA

 3
 L; C
 125 A
 100 A
 100.4
 0.14 kVA
 0.49 kVA
 0 kVA

 3
 M
 125 A
 30 A
 30.3
 4.32 kVA
 4.32 kVA
 4.32 kVA

 3
 125 A
 100 A
 100.4
 100.4
 100.4
 100.4

 3
 125 A
 100 A
 100 A

 3
 125 A
 100 A
 100.4

 3
 400 A
 400 A
 400.4

 3
 125 A
 60 A
 60.3
 SPECIAL SWITCHBOARD FEATURES: Total Connected Load:7.66 kVA7.15 kVA7.8 kVATotal Connected Amps:27.9 A25.8 A28.5 A LOAD TYPE | CONNECTED | DEMAND FACTOR | DEMAND/ ADJUSTED | LEGEND PANEL TOTALS 13.47 kVA 100% 13.47 kVA C = CONTINUOUS KVA AMPS 100% 125% 125% TOTAL CONNECTED LOAD:22.61 kVATOTAL DEMAND LOAD:22.93 kVA 27.2 A 27.6 A 7.88 kVA 7.88 kVA K = KITCHEN 0.9 kVA 1.13 kVA L = LIGHTING SPARE CAPACITY : 20% 33 A 0.36 kVA 0.45 kVA M=MOTOR 20% REQUIRED CAPACITY: 27.51 kVA MOTOR = LARGEST MOTOR N = NON-CONTINUOUS

R = RECEPTACLE

1

JVVII	CHBOAR	D- DP1									
١	/OLTAGE: 208Y/120\	√, 3PH, 4W			INTEGRAL	SPD: No					
	ounting: Pad	, ,			NEMA RAT	ING: NEMA-1		POWER SOL	JRCE TYPE:	NORMAL	
MAIN AM	PS/ TYPE: 800 A/MCI	В			AIC RAT	TING: 35K			LOCATION:	Room B01	
В	US AMPS: 800 A				-			SUF	PLY FROM:	T-DP1	
скт	CIRCUIT DES	SCRIPTION	NO.of POLES		FRAME SIZE	TRIP RATING	FEEDER TAG	A	В	с	REMARK
1 LP1			3	L; M;	250 A	225 A	225.4	3.19 kVA	2.34 kVA	3.48 kVA	
2 (F)PN	IL LP2		3		250 A	225 A	225.4				
3 (F)PN			3		250 A	225 A	225.4				
4 SPAC								0 kVA			
5 SPAC								0 kVA			
6 SPAC								0 kVA			
SPECIAL S	WITCHBOARD FEAT	IURES:					nnected Load		2.34 kVA	3.48 kVA	
							nected Amp	s: 27.7 A	19.5 A	30.1 A	
	E CONNECTED	DEMAND FACTOR	DEMAND)/ ADJUS	TED	LEGEND			PAN	EL TOTALS	
LOAD TYP	0.5 kVA	100%	0.	.5 kVA	С	= CONTINUOU	S			KVA	AMPS
LOAD TYP M		100%	7.	88 kVA		K = KITCHEN	TO	TAL CONNECT	FED LOAD:	9.01 kVA	25 A
	7.88 kVA		0.	75 kVA		L = LIGHTING		TOTAL DEMA		9.17 kVA	25.4 A
Μ	7.88 kVA 0.6 kVA	125%	0.								
M R		125% 125%		04 kVA		M=MOTOR		SPARE C	APACITY		
M R	0.6 kVA				МОТО	M=MOTOR R = LARGEST N	IOTOR	REQUIRED C	_	9.17 kVA	25 /
M R	0.6 kVA				N =		OUS		_	9.17 kVA	25 A

	MOL BUS F	inting Rating	: SURFACI : 100 A				IN ISOL (IEMA R ITEGRA GROUN	l SPD: D BAR:	No No	1				D D		
		i amps Rating	:100 A MC :42K	;R)-THRU OUBLE						LOCATION SUPPLY FROM			
скт		POLE		DESCRIPTION	ТҮ	/PE		(VA)	B (k		C (k	(VA)	TYPE			POLE	TRIP
1	20 A	1	LIGHTING	- BASEMENT		L	0.12	0.03	-	-	-			ELEVATOR CONTROL ROO	MLTG	1	20 A
3	20 A	1		LL LIGHTING		L			0.19	0.3			C	LIGHTING CONTROL PANEI		1	20 A
5	20 A	1	SPARE								0	0		SPARE		1	20 A
7	20 A	1	SPARE				0	0						SPARE		1	20 A
9	20 A	1	SPARE						0	0				SPARE		1	20 A
11	20 A	1	SPARE		-						0	0		SPARE		1	20 A
13	20 A	1	SPARE		-		0	0						SPARE		1	20 A
15	20 A	1	SPARE						0	0				SPARE		1	20 A
17	20 A	1	SPARE		-						0	0		SPARE		1	20 A
19	20 A	1	SPARE		-		0	0						SPARE		1	20 A
21	20 A	1	SPARE		-				0	0				SPARE		1	20 A
23	20 A	1	SPARE		-						0	0		SPARE		1	20 A
25	20 A	1	SPARE		-		0	0						SPARE		1	20 A
27	20 A	1	SPARE		-				0	0				SPARE		1	20 A
29	20 A	1	SPARE		-						0	0		SPARE		1	20 A
31	20 A	1	SPARE		-		0	0						SPARE		1	20 A
33	20 A	1	SPARE		-				0	0				SPARE		1	20 A
35	20 A	1	SPARE		-						0	0		SPARE		1	20 A
37			SPACE		-		0	0						SPACE			
39			SPACE						0	0				SPACE			
41			SPACE		-						0	0		SPACE			
							i						- i				
			INECTED	DEMAND FACTOR	DEMAND		AD) TYPE			_	PANEL			
LOAD			.3 kVA	125%	0.38 k					ONTIN			-		KVA	_	AMPS
	C		22 1//1											OTAL CONNECTED LOAD:	0.63 kVA		0.8 A
	C L	0.	33 kVA	125%	0.42 k	ΚVA				ELEVA							
	C L	0.	33 KVA	125%	0.42 k	(VA			K =	KITCH	EN			TOTAL DEMAND LOAD:	0.79 kVA		
	C L	0.	33 KVA	125%	0.42 k	(VA			K = L =	KITCH LIGHTI	EN NG			SPARE CAPACITY:	20%		20%
		0.	33 KVA	125%	0.42 k				K = L = M :	KITCH LIGHTI = MOT(en Ng Dr						20%
		0.		125%	0.42 k	(VA		MOT	K = L = M :	KITCH LIGHTI	en Ng Dr	TOR		SPARE CAPACITY:	20%		20%
		0.		125%	0.42 k	<va< td=""><td></td><td></td><td>K = L = M = TOR = L</td><td>KITCH LIGHTI = MOT(</td><td>en Ng Dr St Mo⁻</td><td></td><td></td><td>SPARE CAPACITY:</td><td>20%</td><td></td><td>20%</td></va<>			K = L = M = TOR = L	KITCH LIGHTI = MOT(en Ng Dr St Mo ⁻			SPARE CAPACITY:	20%		20%
		0.		125%	0.42 k				K = L = M = TOR = L = NON	KITCH LIGHTI = MOT(_ARGE	en Ng Dr St Mo ⁻ Inuou			SPARE CAPACITY:	20%		20%
		0.		125%	0.42 k				K = L = M = TOR = L = NON	KITCH LIGHTI = MOT(_ARGES -CONT	en Ng Dr St Mo ⁻ Inuou			SPARE CAPACITY:	20%		1 A 20% 1 A

								_						
			: 208Y/120V, 3PH, 4W			IEMA R			1					
		-	SURFACE			ITEGR/	-	-						
		RATING				GROUN		-						
		-	: 225 A MLO			D-THRU						LOCATION: Room B01		
		RATING	: 10K		D	OUBLE	-LUGS:	Yes				SUPPLY FROM: DP1	1	<u> </u>
СКТ	TRIP	POLE	DESCRIPTION	TYPE	A (k	(VA)	B (k	VA)	C (k	(VA)	TYPE	DESCRIPTION	POLE	TR
1	20 A	1	ELECTRICAL ROOM RECEPTACLES	R	0.18	0.3					С	ELEVATOR CAR LTG AND FAN	1	20
3	20 A	1	MPOE QUAD RECEPTACLES	R			0.72	0.18			R	RCPT - ELEVATOR CONTROL ROOM	1	20
5	20 A	1	FIRE ALARM CONTROL PANEL	С					0.3	0.18	R	ELEVATOR PIT SUMP PUMP	1	20
7	20 A	1	ELEVATOR PIT RECEPTACLE	R	0.18	0.03					L	LTG - ELEVATOR PIT	1	20
9	20 A	1	SERVER RACK QUAD RECEPTACLE	R			0.36	1.08			R	ELECTRICAL ROOM RECEPTACLES	1	20
11	30 A	2	NEMA L6-30R	R					2.5	0.5	М	SEISMIC SWITCH	1	20
13	30 A	2	NEIMA LO-SOR	Г	2.5	0						SPARE	1	20
15	20 A	1	SPARE				0	0				SPARE	1	20
17	20 A	1	SPARE						0	0		SPARE	1	20
19	20 A	1	SPARE		0	0						SPARE	1	20
21	20 A	1	SPARE				0	0				SPARE	1	20
23	20 A	1	SPARE						0	0		SPARE	1	20
25	20 A	1	SPARE		0	0						SPARE	1	20
27	20 A	1	SPARE				0	0				SPARE	1	20
29	20 A	1	SPARE						0	0		SPARE	1	20
31	20 A	1	SPARE		0	0						SPARE	1	20
33	20 A	1	SPARE				0	0				SPARE	1	20
35	20 A	1	SPARE						0	0		SPARE	1	20
37			SPACE		0	0						SPACE		
39			SPACE				0	0				SPACE		
41			SPACE						0	0		SPACE		

3

4

LOAD TYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD	LOAD TYPE KEY	PANEL	TOTALS	
С	0.6 kVA	125%	0.75 kVA	C = CONTINUOUS		KVA	AMPS
L	0.03 kVA	125%	0.04 kVA	E = ELEVATOR	TOTAL CONNECTED LOAD:	9.01 kVA	25 A
М	0.5 kVA	100%	0.5 kVA	K = KITCHEN	TOTAL DEMAND LOAD:	9.17 kVA	25.4 A
R	7.88 kVA	100%	7.88 kVA	L = LIGHTING	SPARE CAPACITY:	20%	20%
				M = MOTOR	DESIGNED CAPACITY:	11 kVA	31 A
				MOTOR = LARGEST MOTOR			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

	MOU BUS F MAIN	JNTING RATING	:: 208Y/120V, :: SURFACE :: 225 A :: 225 A MLO :: ????			IN ISOL (FEEI	iema r Itegra Groun D-thru Iouble	AL SPD ID BAR J LUGS	: No : No : No	1			LOCATION SUPPLY FROM	N: Room B01 <i>I</i> : LP1			
СКТ	TRIP	POLE		DESCRIPTION	TYPE	A (F	(VA)	B (k	(VA)	C (F	(VA)	TYPE	DESCRIPTIO	N	POLE	TRIP	Cł
43	20 A	1	SPARE			0	0		-				SPARE		1	20 A	4
45	20 A	1	SPARE			•		0	0				SPARE		1	20 A	_
47	20 A	1	SPARE							0	0		SPARE		1	20 A	_
49	20 A	1	SPARE			0	0						SPARE		1	20 A	_
51	20 A	1	SPARE			-	-	0	0				SPARE		1	20 A	_
53	20 A	1	SPARE							0	0		SPARE		1	20 A	_
55	20 A	1	SPARE			0	0						SPARE		1	20 A	_
57	20 A	1	SPARE					0	0				SPARE		1	20 A	_
59	20 A	1	SPARE							0	0		SPARE		1	20 A	6
61	20 A	1	SPARE			0	0						SPARE		1	20 A	6
63	20 A	1	SPARE					0	0				SPARE		1	20 A	6
65	20 A	1	SPARE							0	0		SPARE		1	20 A	6
67	20 A	1	SPARE			0	0						SPARE		1	20 A	6
69	20 A	1	SPARE					0	0				SPARE		1	20 A	7
71	20 A	1	SPARE							0	0		SPARE		1	20 A	7
73	20 A	1	SPARE			0	0						SPARE		1	20 A	7
75	20 A	1	SPARE					0	0				SPARE		1	20 A	7
77	20 A	1	SPARE							0	0		SPARE		1	20 A	7
79			SPACE			0	0						SPACE		-		8
81			SPACE					0	0				SPACE				8
83			SPACE							0	0		SPACE		-		8
SPEC	IAL P	ANEL F	EATURES			0 k	κVA	0 k	κVA	0 k	ΧA	CIRCL	JIT NOTES				_
LOAD) TYPE			DEMAND FACTOR	DEMAND LO	AD		LOAI	D TYPE	KEY		1	PANEL	TOTALS			
									ONTIN					KVA		AMPS	;
								_				1			-		

LOAD IYPE	CONNECTED	DEMAND FACTOR	DEMAND LOAD	LOAD IYPE KEY	PANEL	LIUTALS	
				C = CONTINUOUS		KVA	AMPS
				E = ELEVATOR	TOTAL CONNECTED LOAD:	0 kVA	0 A
				K = KITCHEN	TOTAL DEMAND LOAD:	0 kVA	0 A
				L = LIGHTING	SPARE CAPACITY:	20%	20%
				M = MOTOR	DESIGNED CAPACITY:	0 kVA	0 A
				MOTOR = LARGEST MOTOR			
				N = NON-CONTINUOUS			
				R = RECEPTACLE			

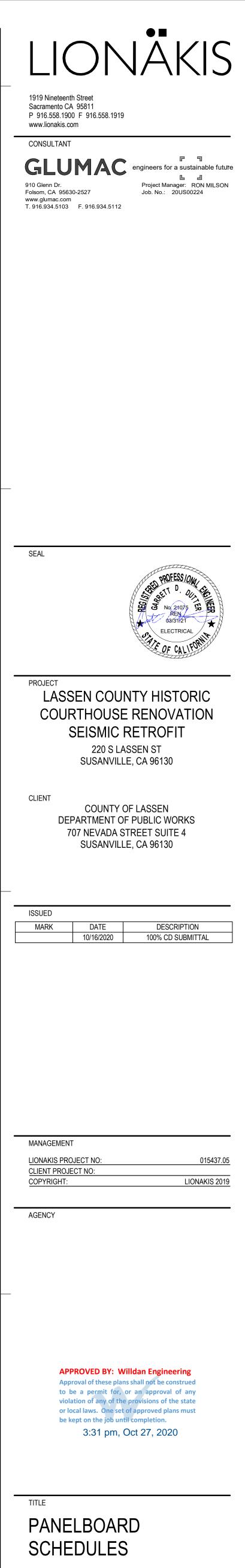
2

KEYED NOTES (#)

5

1. PROVIDE RED MARKING ON CIRCUIT BREAKER DESIGNATED FOR FIRE ALARM CONTROL PANEL.

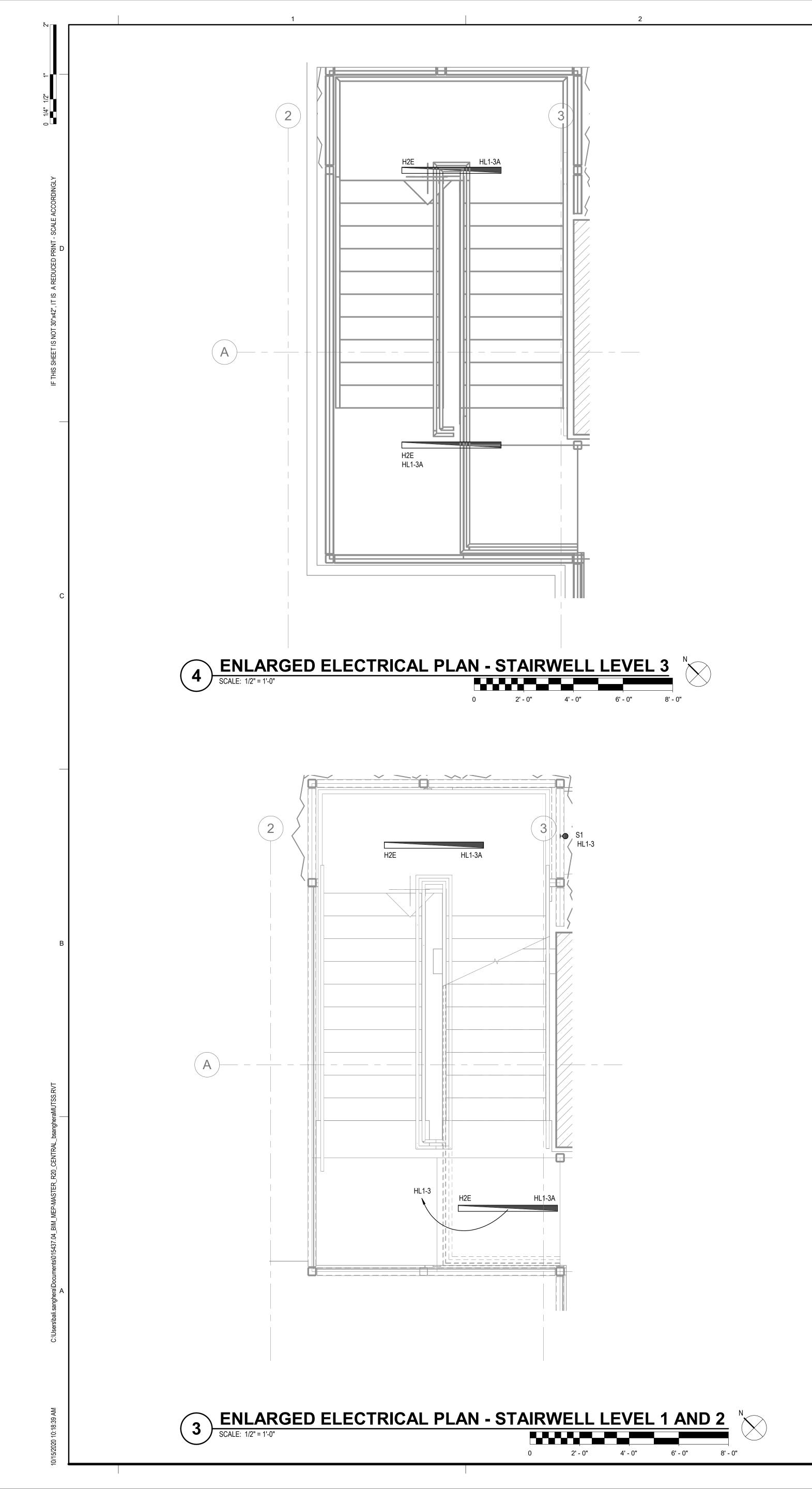
PANEL SCH	EDULE KEY
MSB	LP1 (SECTION 1)
DP1	LP1 (SECTION 2)
HL1	N/A

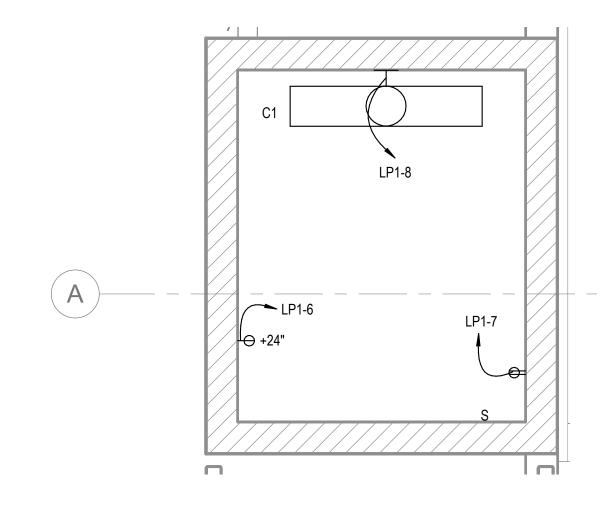




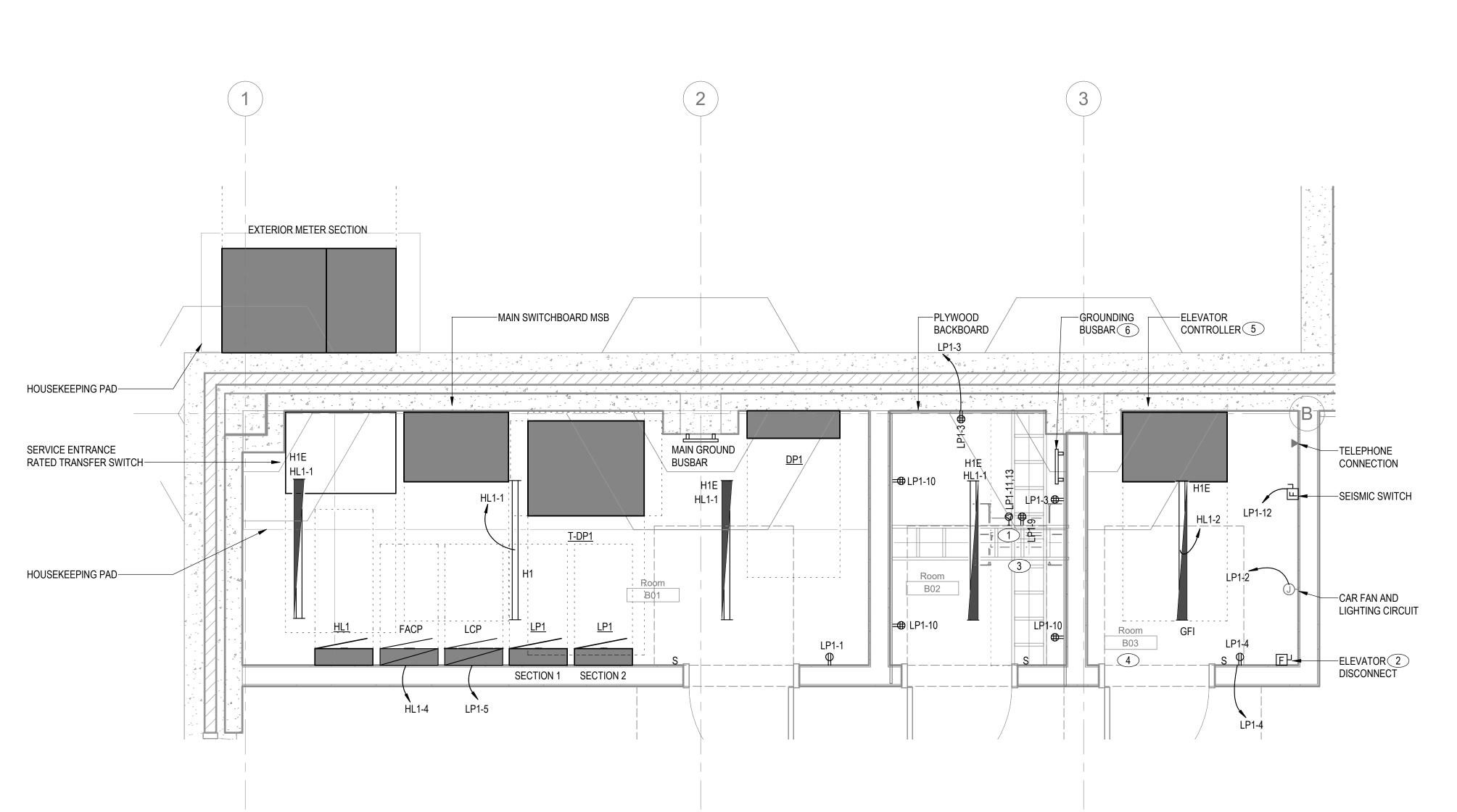
SHEET

E5.2









4

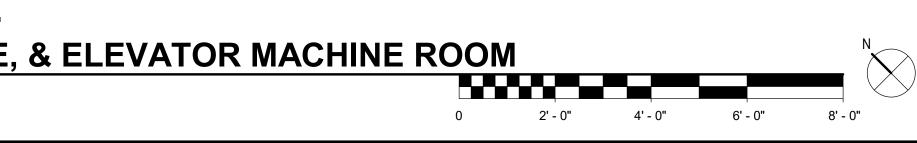
ENLARGED ELECTRICAL PLAN -MAIN ELECTRICAL ROOM, MPOE, & ELEVATOR MACHINE ROOM

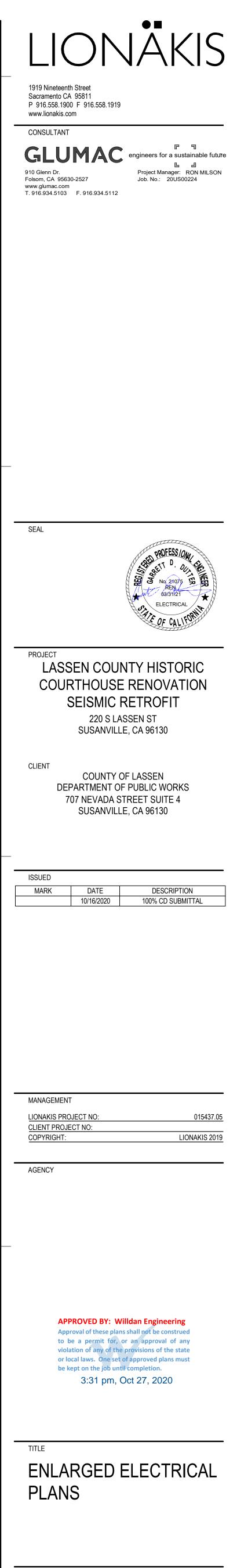
SHEET NOTES

- A. WHERE POSSIBLE, BOXES SHALL BE IN SEPARATE STUD SPACES FROM BOXES SERVING OTHER ROOMS TO MINIMIZE SOUND TRANSFER.
- B. PROVIDE 4" HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- C. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION ON NAMED ELECTRICAL EQUIPMENT SHOWN.
- D. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION. ALL DETAILS APPLY FOR ALL APPLICABLE SITUATIONS WHETHER REFERENCED OR NOT, UON.
- E. REFER TO ARCHITECTURAL FLOOR PLANS, INTERIOR ELEVATIONS AND DETAIL DRAWINGS PRIOR TO ROUGH-IN.
- F. CONTRACTOR IS RESPONSIBLE TO REVIEW ARCHITECTURAL DRAWINGS TO CONFIRM CEILING TYPES IN ALL ROOMS (ACCESSIBLE, EXPOSED, OR "HARD") AND TO USE THE APPROPRIATE WIRING METHOD FOR EACH TYPE. ENSURE ALL J-BOXES ARE ACCESSIBLE AFTER ALL OTHER TRADE'S WORK IS COMPLETED. DO NOT LOCATE ANY J-BOXES ON "HARD" CEILINGS; ALL WIRING MUST BE ACCESSIBLE THROUGH DEVICE ONLY IN "DAISY-CHAIN" METHOD OR WITH DEDICATED HOMERUNS TO EACH DEVICE. J-BOXES MAY BE LOCATED ABOVE OTHER TRADE'S ACCESS DOORS IF FEASIBLE AND DOES NOT INTERFERE WITH ACCESS.
- G. FLOOR PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND FIELD DETERMINE EXACT CONDUIT, PULL BOX, AND ROUTING REQUIREMENTS.
- H. PROVIDE #10 AWG NEUTRALS TO ALL 15A AND 20A RECEPTACLES THAT SHARE A COMMON NEUTRAL, UNLESS OTHERWISE NOTED.
- I. ALL NEW RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED; CUT AND PATCH EXISTING WALLS TO ACCOMMODATE NEW RACEWAY INSTALLATION. ALL CONDUITS TO BE INSTALLED 90° TO BUILDING LINES.

KEYED NOTES (#)

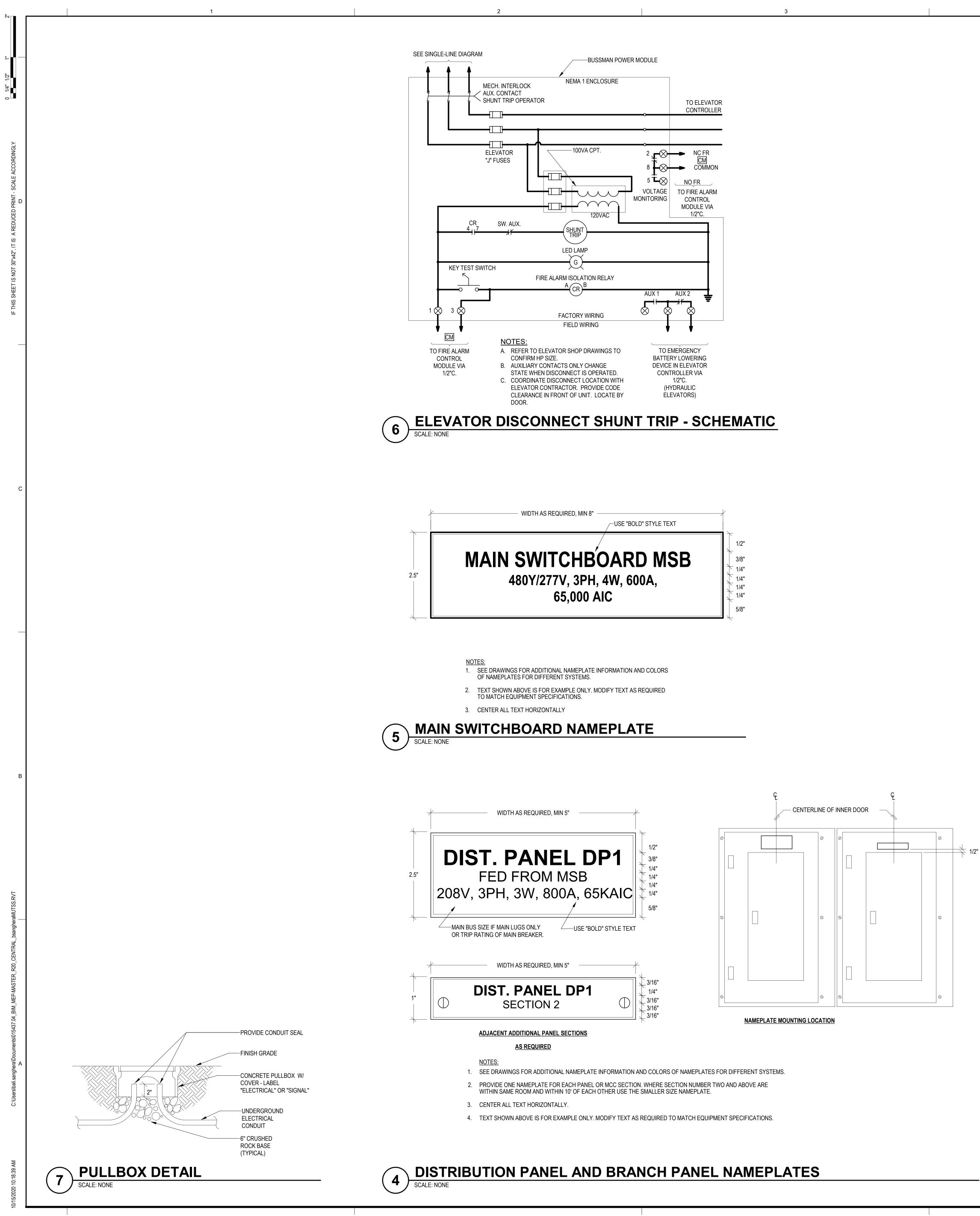
- 1. PROVIDE 208V, 30A, NEMA L6-30R TWIST LOCK RECEPTACLE AND 120V QUADPLEX RECEPTACLE ABOVE EACH RACK ,SURFACE MOUNTED TO SIDE OF LADDER RACK.
- 2. PROVIDE LOCKABLE FUSED ELEVATOR DISCONNECT WITH INTEGRAL SHUNT TRIP (INTERNALLY POWERED, RELAY ACTIVATED), BUSSMAN QUIK-SPEC POWER MODULE SWITCH, OR EQUAL. COORDINATE WITH FIRE ALARM DRAWINGS FOR CONNECTIONS FOR SHUNT TRIP INPUT SIGNAL.
- 3. REFER TO LOW VOLTAGE DRAWINGS AND PROVIDE AND INSTALL ALL EQUIPMENT DESIGNATED TO BE INSTALLED BY ELECTRICAL CONTRACTOR.
- 4. SEE ELEVATOR DRAWINGS FOR EXACT REQUIREMENTS.
- 5. SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
- PROVIDE 12"W x 4"H x 1/4"D TELECOM GROUND BUS BAR WITH #1/0 CONNECTION TO MAIN GROUND BUS BAR. BOND ALL EQUIPMENT RACKS AND LADDER RACKS TO BUS BAR WITH #6 AWG GREEN COPPER GROUND CONDUCTORS.

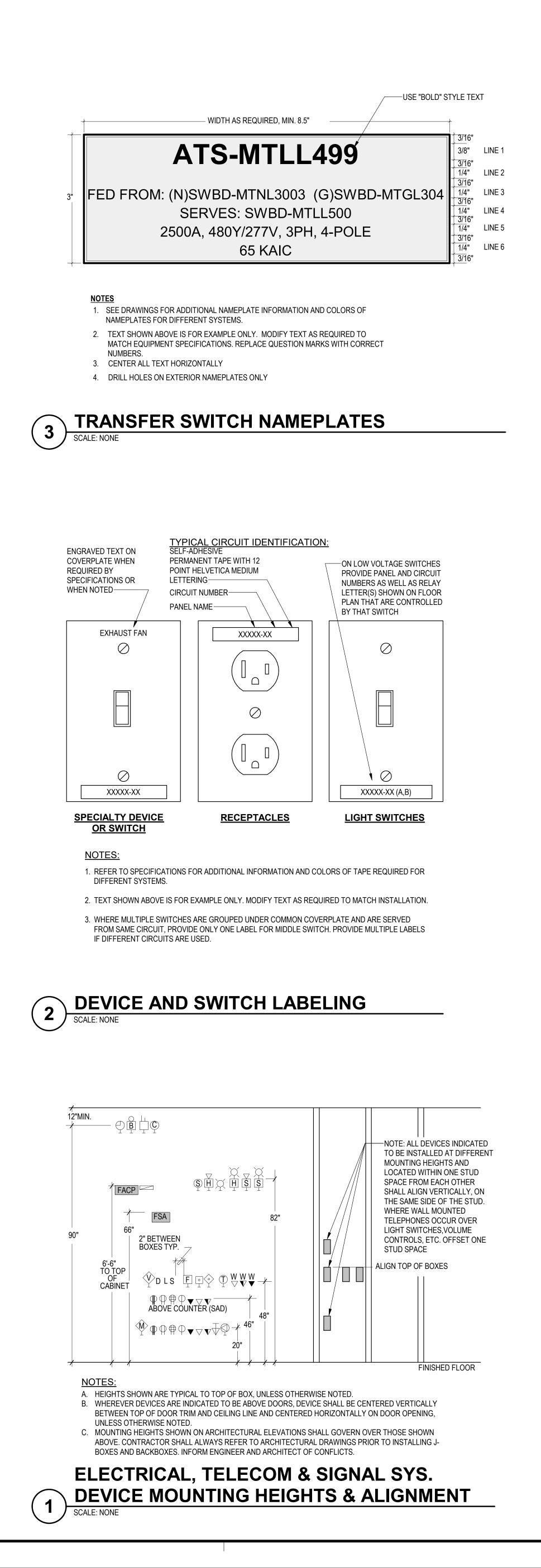


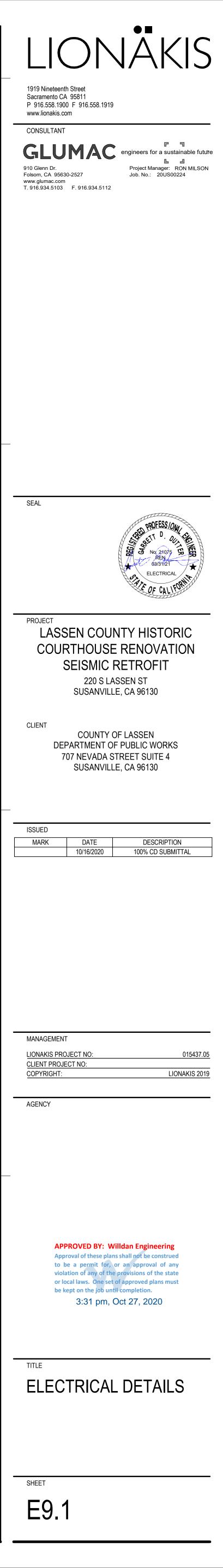


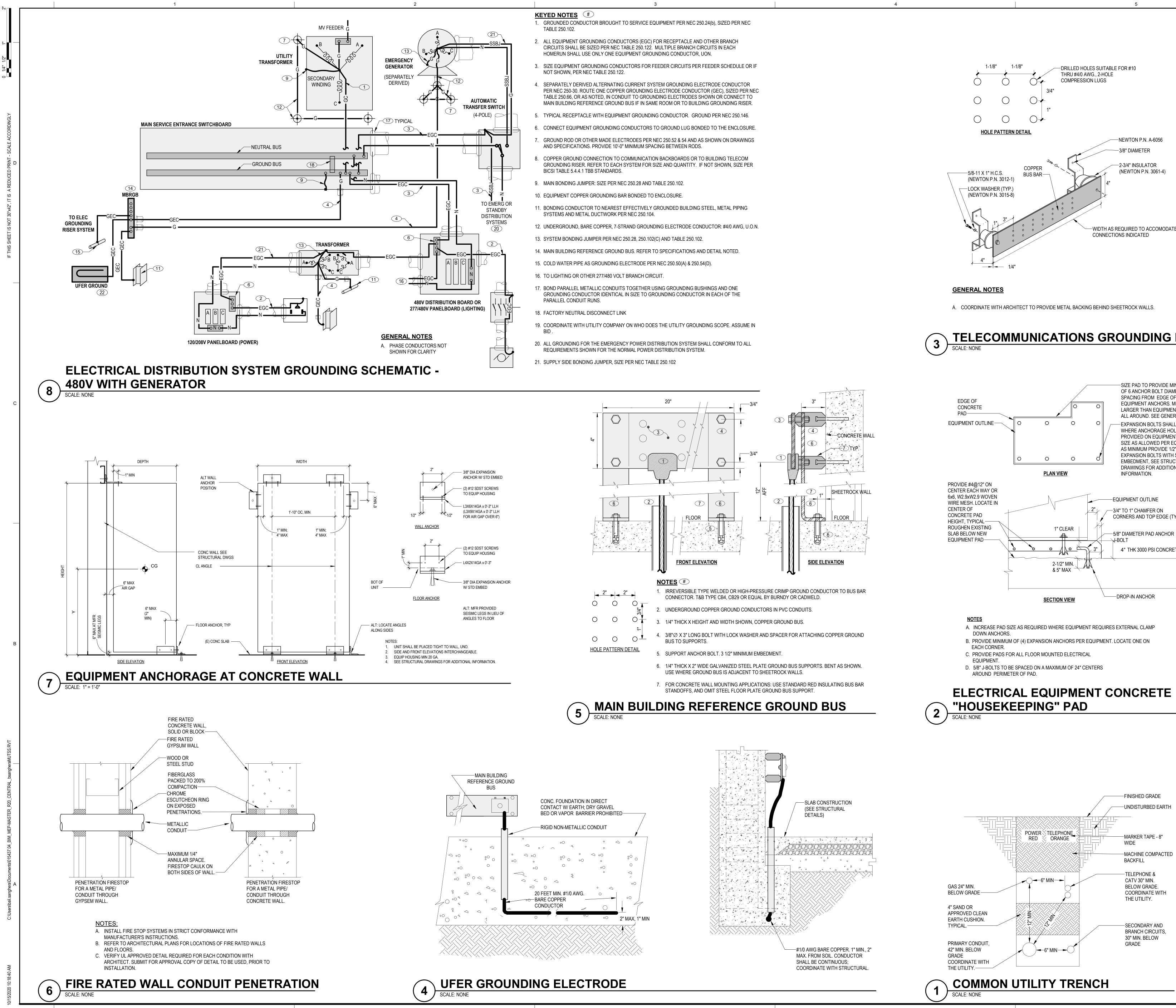
SHEET

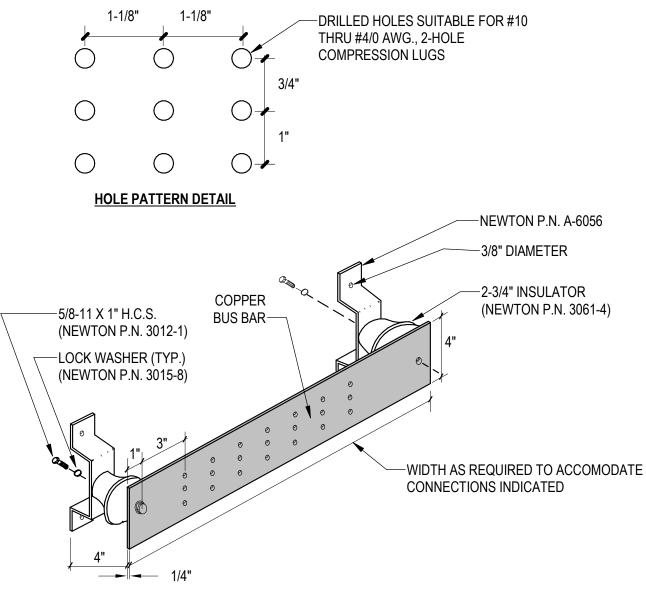
E6.1



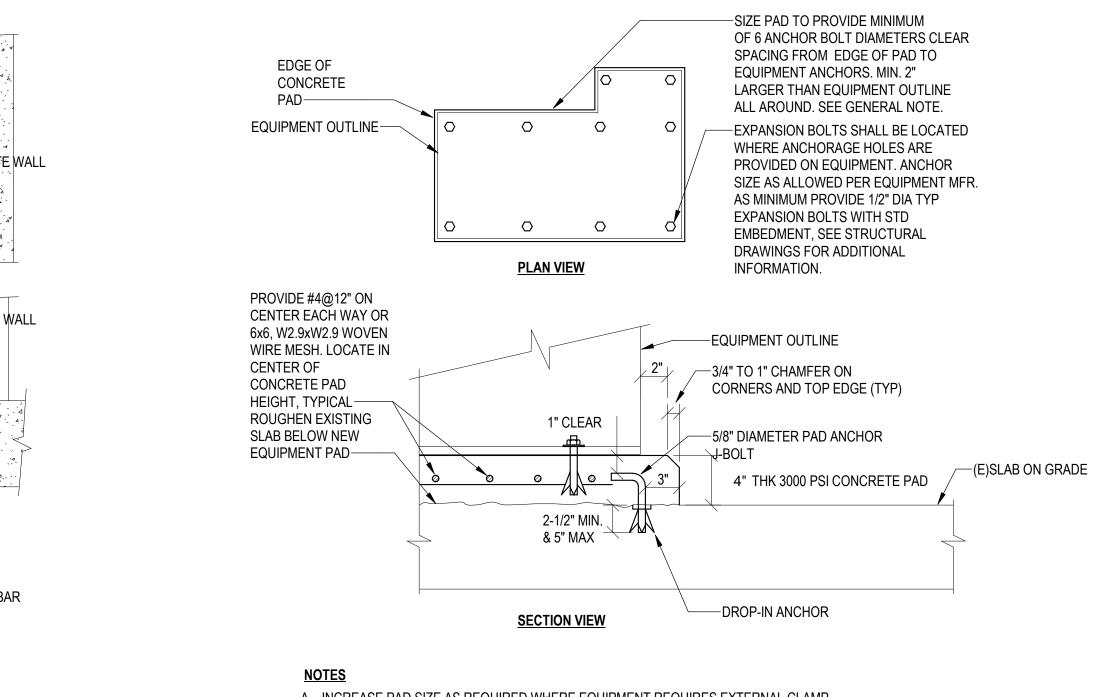


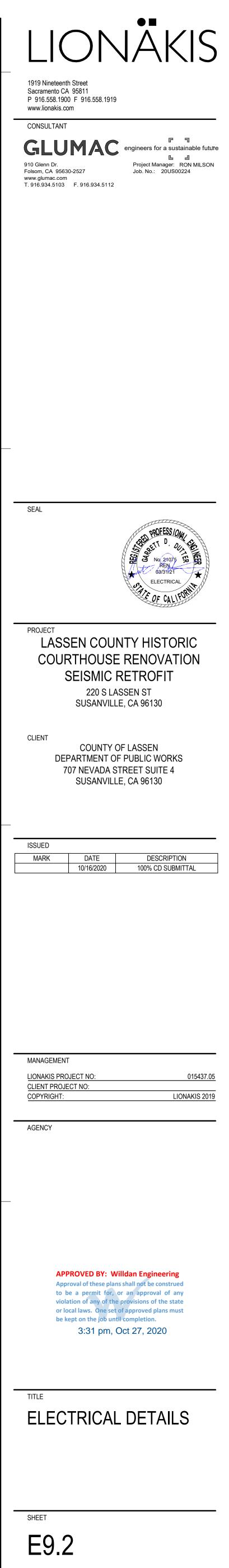


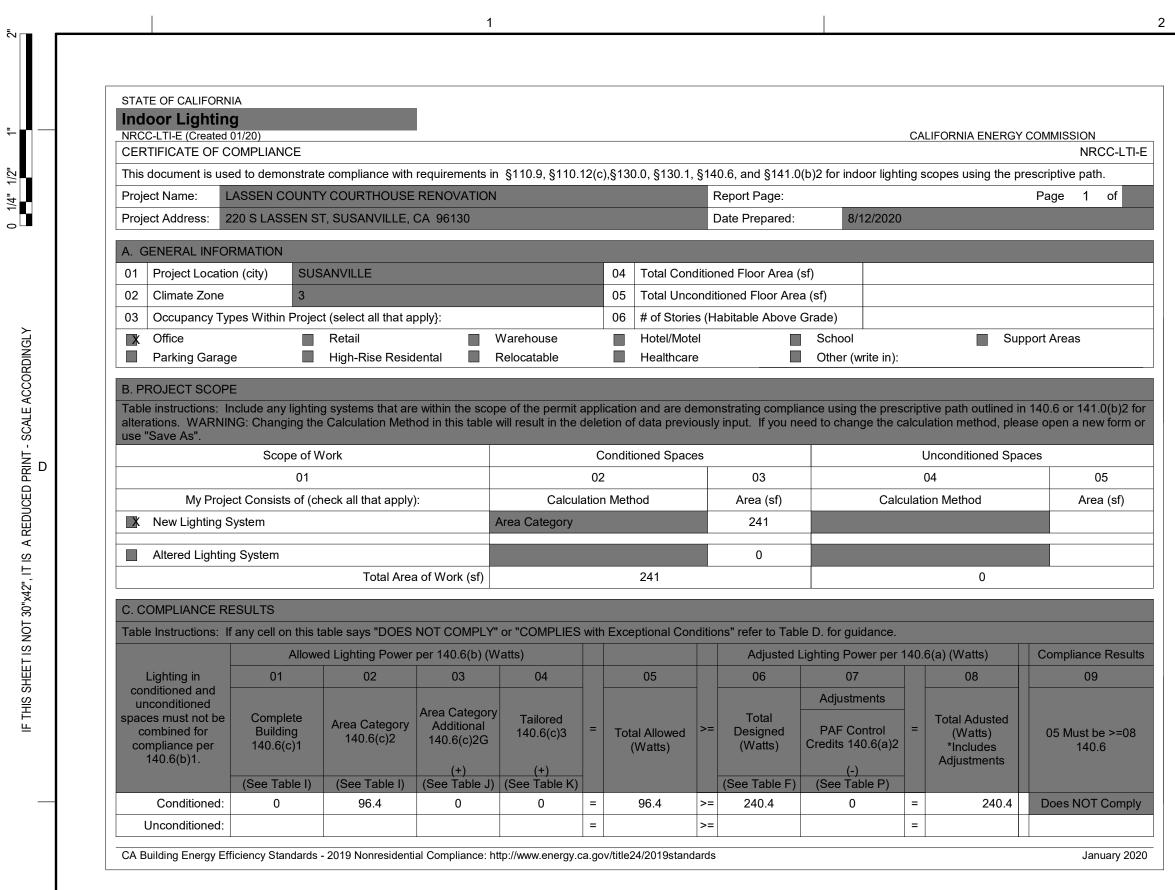












	(Created 01/20) TE OF COMPLIANCE						CALIFORNIA E		<u>۱۳۱۱۵۵</u> ۱
This docum	ent is used to demonstrate compliance with requ	uirements in §110.9,	§110.12(c),§130.0), §130.1, §140	.6, and §141.0(b)2 f	or indoor lightin	g scopes usin	g the presc	riptive
Project Nar	ne: LASSEN COUNTY COURTHOUSE	RENOVATION			Report Page:			Р	age
Project Add	Iress: 220 S LASSEN ST, SUSANVILLE, 0	CA 96130			Date Prepared:	8/12/2020			
F. INDOOF	R LIGHTING FIXTURE SCHEDEULE								
Table Instru	uctions: Include all permanent designed lighting	and all portable lighti	ng in offices.						
Designed V	Vattage: Conditioned Spaces		_						
01	02	03	04	05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Track Fixture	Small Aperture & Color Change(1)	Watts per luminaire(2)	How Wattage is determined	Total number luminaires	Exempt per §140.6(a)3	Design Watts	Fie Pa
H1	4FT SUR LIN LED STRIP			16.4	0	5		82	
H2E	4FT SUS LIN LED STRIP			39.6	0	4		158.4	
									[
									[
									[
									[
									[
									[
									[
									[
					Total Designed Wat	ts CONDITION	ED SPACES:	240.4	Plu

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CERTIFICATE OF COMPLIANCE Project Name: LASSEN COUNTY	COURTHOUSE RENOVATION	Report Page	:		Page	NF
Project Address: 220 S LASSEN ST	, SUSANVILLE, CA 96130	Date Prepare	ed: 8	/12/2020		
I. LIGHTING POWER ALLOWANCE:	COMPLETE BUILDING OR AREA CATEGORY METHODS					
Table Instructions: Complete the table	for each area complying using the Complete Building or Are	a Category Methods per §1	40.6(b). Inc	licate if additional ligh	ting power allowan	ices p
140.6(c) or adjustments per §140.6(a) Conditioned Spaces	are being used.					
01	02	03	04	05	06	3
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft2)	Area (ft2)	Allowed Wattage (Watts)	Additional Al Adjustr	
		(\\/\\2)			Area Category	
ELEC, MECH, ELEVATOR RMS	ELECT, MECH, TELE ROOMS	0.4	241	96.4	X	
		TOTAL:	241	96.4	See Tables J o	or P f

STATE OF CALIF	ORNIA																					
Indoor Ligh	ting																					
NRCC-LTI-E (Crea			_														CA	LIFORN	A ENER	GY COI		
CERTIFICATE C																						NRCC-L
This document is	_			-		-	-	110.9, §1	10.12(c)),§130.0,	§130.1,	-	-		2 for	indoor	lighting	scopes ι	ising th	e presc	riptive	path.
Project Name:	LAS	SEN CC	UNTY C	OURTH	OUSE F	RENOVA	ATION						Report	Page:						P	age	2 of
Project Address:	220	S LASS	EN ST, S	USANV	ILLE, C	A 96130	0						Date Pr	epared:		8/12/2	020					
											Contro	ols Con	pliance	(See Ta	able I	H for De	etails)					
									Rate	d Power	Reductio	on Com	pliance	(See Ta	able (ຊ for De	etails)		N	ot Appli	cable	
D. EXCEPTION	AL CC	NDITION	S																			
This table is auto	-filled	vith unec	itable co	nments	becaus	se of sele	ections m	ade or da	ita enter	ed in tab	es throu	ghout t	he form									
No exceptional	condi																					
		ione anr	ly to thi		\ †																	
•	Jonul	ions app	ly to this	s projec	xt.																	
		ions app	ly to this	s projec	xt.																	
E. ADDITIONAL	_		ly to this	s projec	xt.																	
E. ADDITIONAL	REM	RKS				t to the A	Authority I	Having Ju	risdictio	n												
	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n						_		_			_	
E. ADDITIONAL	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n												
e. Additional	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL	REM	RKS				t to the A	Authority I	Having Ju	irisdictio	n												
e. Additional	REM	RKS				t to the A	Authority I	Having Ju	Irisdictio	n												
E. ADDITIONAL	REM/	RKS arks mad	e by the	permit a		t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL This table include	REM/ es rem	RKS arks mad	e by the	permit a	ipplican	t to the A	Authority I	Having Ju	Irisdictio	n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON	REM/ es rem HTING	RKS arks mad FIXTUR TION SH	e by the E SCHEI EET FO	permit a	ipplican	t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L	REM/ es rem HTING TINU/	RKS arks mad FIXTUR TION SH	e by the E SCHEI EET FO	permit a	ipplican	t to the A	Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L This Section Doe	REM/ es rem HTING TINU/ IGHTI	RKS arks mad FIXTUR TION SH IG SYST Apply	e by the E SCHEI EET FO EMS	permit a DEULE R TABLI	E F		Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L This Section Doe H. INDOOR LIG	REM/ es rem HTING TINU/ IGHTI es Not	RKS arks mad FIXTUR TION SH IG SYST Apply CONTR	e by the E SCHEI EET FO EMS DLS (No	permit a DEULE R TABLI	E F		Authority I	Having Ju	irisdictio	n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L	REM/ es rem HTING TINU/ IGHTI es Not	RKS arks mad FIXTUR TION SH IG SYST Apply CONTR	e by the E SCHEI EET FO EMS DLS (No	permit a DEULE R TABLI	E F		Authority I	Having Ju		n												
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L This Section Doe H. INDOOR LIG	REM/ es rem HTING ITINU/ IGHTI es Not HTINC/	RKS arks mad FIXTUR TION SH IG SYST Apply CONTR TION SH	e by the E SCHEI EET FO EMS OLS (No EET FO	permit a DEULE R TABLI t Includii R TABLI	E F	s)																
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L This Section Doe H. INDOOR LIG REFER TO CON	REM/ es rem HTING TINU/ IGHTI es Not HTING TINU/	FIXTUR TION SH Apply CONTR TION SH ALLOWA	e by the E SCHEI EET FO EMS DLS (No EET FO NCE: CC	permit a DEULE R TABLI t Includii R TABLI	E F	s)																
E. ADDITIONAL This table include F. INDOOR LIG REFER TO CON G. MODULAR L This Section Doe H. INDOOR LIG REFER TO CON I. LIGHTING PO	REM/ es rem HTING TINU/ IGHTI es Not HTINU/ WER	FIXTUR FIXTUR TION SH IG SYST Apply CONTR TION SH ALLOWA TION SH	e by the E SCHEI EET FO EMS OLS (No EET FO NCE: CC EET FO	permit a DEULE R TABLI t Includii R TABLI DMPLET R TABLI	E F E H E BUIL E I	s) DING OF	R AREA (CATEGO	RYMET	HODS	SYSTEM											

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

3

January 2020

4



	(Created 01/20) TE OF COMPLIANCE					CALIFORNIA ENERGY COMMISSI	ON NRCC-
		e with requirements in 81	10.9, §110.12(c),§130.0, §130.1, §14	0.6 and 81	141 0(b)2 for indeer lighti		
Project Nam		· -		Report Pa	.,	Page	of
Project Addı				Date Prep	-		
0 1000							_
G. MODUL	AR LIGHTING SYSTEMS						
Table Instru	ctions: Complete this table for track I	ighting fixtures indicated o	n Table F. Luminaire classification and	d power sh	ould be per §130.0(c)6.		
Name or Item Tag	Complete Track Description		Calculation Me	ethod per §	130.0(c)6		Tra Watt
С		Installed Luminaires vs Default 30 W/ft	ii Current Limiter	III III	Overcurrent Protection Panel	Power supplied by driver, power supply or transformer (2)	
		Number of luminaires in system	x luminaire =	tts OR	Linear ft of track or busway x	Default W/LF = Total Watts	
			A of current limiter			30 0	
		V					
		Volt	age of branch circuit		Sum of Ampere ratir	ngs for all overcurrent panels	
				X			
			Maximum rated input	t wattage p	er manufacturer		
				500			
		Installed Insta	📑 ii Current Limiter	iii	Overcurrent Protection Panel	Power supplied by driver, power supply or transformer (2)	C
		V	A of current limiter				
		i Installed Luminaires vs Default 30 W/ft	ii Current Limiter	X iii	Overcurrent Protection Panel	Power supplied by driver, power supply or transformer (2)	C
		Volt	age of branch circuit		Sum of Ampere ratir	ngs for all overcurrent panels	
				X			
		i Installed Luminaires vs Default 30 W/ft	ii Current Limiter	iii	Overcurrent Protection Panel	Power supplied by driver, power supply or transformer (2)	O
			Maximum rated inpu	t wattage p	er manufacturer		

(1)FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system.

TATE OF CALIFORNIA									
ndoor Lighting IRCC-LTI-E (Created 01/20)						CALIF	ORNIA ENERG	Y COMMISSIO	N
CERTIFICATE OF COMPLIA	ANCE							N	RC
Project Name: LASSEN	COUNTY COURTHOUSE RENOVATION			Report Page	e:			Page	
Project Address: 220 S LA	ASSEN ST, SUSANVILLE, CA 96130			Date Prepar	red: 8/1	12/2020			
. ADDITIONAL LIGHTING	ALLOWANCE: AREA CATEGORY METHOD	QUALIFYING LIGHTING SYSTE	M						
able Instructions: Please c	complete the table for all areas indicted in Tab	le I as using an additional allowa	nce per the	e Area Catego	ory Method i	n Table 140.6	-C.		
Conditioned Spaces									
01	02	03	04	05	06	07	08	09	Γ
Area Description	Primary Function Area	Applicable Qualifying Lighting System from Table 140.6-C	Allowed Density (W/sf) or (W/lf)	Ltg Area, Length or ATM/Mirror (sf, lf or #)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	Number of Luminaires	
						H1	16.4	5	
									Γ
otal Design Watts:	Calculated Allowance (Watts):	Total Additional Allowance for th	is area:						
82	0.00	0.00							
					Х				
					Х				
otal Design Watts:	Calculated Allowance (Watts):	Total Additional Allowance for th	is area:						
0	0.00	0.00							
	11								
Total Additional A	Allowance (Watts) CONDITIONED SPACES:	0.00							

Indoor Light NRCC-LTI-E (Crea	ited 01/															(ALIFOR				
CERTIFICATE O																					RCC-LTI-E
This document is							•	10.9, §1 [,]	10.12(c)	,§130.0,	§130.1, §			. ,	or indoc	or lighting	g scopes	using th			
Project Name:		SEN COUN					ON						eport Pa	-	_				Paç	je 3	of
Project Address:	220	S LASSEN	ST, SUS	SANVILL	E, CA 🤅	6130						D	ate Prep	pared:	8/12	/2020					
K. TAILORED M	ETHO	D GENERA	L LIGHT	NG POV	VER AL	LOWAN	NCE														
This Section Doe	s Not	Apply																			
L. ADDITIONAL	LIGHT	ING ALLOV	VANCE:	TAILOR	ED WAI	L DISP	PLAY														
This Section Doe	s Not	Apply																			
M. ADDITIONAL	. LIGH	ING ALLO	VANCE	TAILOR	ED FLC	OR AN	ID TASK	K LIGHTI	ING												
This Section Doe	s Not	Apply																			
N. ADDITIONAL	LIGH	ING ALLO	VANCE	TAILOR	ED ORI		TAL/SP	PECIAL E	EFFECT	S											
This Section Doe	s Not	Apply																			
O. ADDITIONAL	LIGH	ING ALLO	VANCE	TAILOR	ED VEF	RY VALI	UABLE	MERCH	IANDISE	Ξ											
This Section Doe	s Not	Apply																			
P. POWER ADJ	USTM	ENT: LIGH	ING CO	NTROL	CREDIT	(POWE	ER ADJI	USTMEN	NT FACT	TOR (PA	AF))										
This Section Doe	s Not	Apply																			
Q. RATED POW	ER RI	DUCTION	COMPL	ANCE F	OR ALT	ERATIC	ONS														
This Section Doe	s Not	Apply																			
R. 80% LIGHTIN	IG PO	VER FOR /		FIONS -	CONTR	OLS EX	CEPTIC	ONS													
This Section Doe	s Not	Apply																			
S. DAYLIGHT D	ESIGN	POWER A	DJUSTN	IENT FA	CTOR (PAF)															
This Section Doe	s Not	Apply																			
T. DECLARATIC	ON OF	REQUIRED	CERTI	ICATES	OF INS	TALLA	TION														
REFER TO CON	TINU	TION SHE	ET FOR	TABLE																	
U. DECLARATIO		REQUIRED	CERTI	ICATES	OF AC	CEPTA	NCE														
REFER TO CON	TINU	TION SHE	ET FOR	TABLE	J																

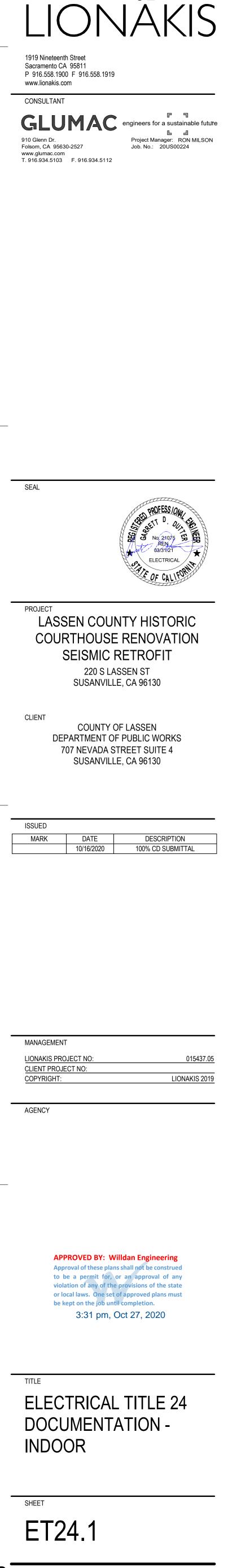
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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roject Name: LASSE	emonstrate compliance with requirements in §110.s	., 3(.),3.	, 3, 3	Report Page				age	of
,	ASSEN ST, SUSANVILLE, CA 96130			Date Prepa		/2020		.90	01
	ONTROLS (Not Including PAFs)				_				
	· · · · · ·	tioned analoss in	this table M/h	on on ontion ha		ad the notes as	ation of this table	musthe	
	include lighting controls for conditioned and uncondit ntrols section of the Compliance Summary Table on						ction of this table	must be	
uilding Level Controls									
	01				02			(03
	Mandatory Demand Response			Sh	ut-Off Controls			Field Ir	-
	§110.12(c)				§130.1(c)			Pass	Fie
No	ot Required - Building <= 0.5 W/SF			Whole I	Building Timeswit	tch			
rea Level Controls									
04	05	06	07	08	09	10	11	-	12
Area Description	Complete Building or Area Category	Area Controls	Multi-Level Controls §	Shuf-Off Controls §	Primary/Skylit Daylighting §	Secondary Daylighting §	Interlocked Systems §	Field Ir	nspect
	Primary Function Area	§130.1(a)	130.1(b)	130.1(c)	130.1(d)	140.6(d)	140.6(a)1	Pass	Fie
LEC, MECH, ELEV RM	ELECT, MECH, TELE ROOMS	Area Controls	Bi-Level Switch						
	require a note in the space below explaining how co	unu lienee in ooki				Plan Sheet Sh	nowing Daylit Zone	25:	

STATE OF CALIFORNIA Indoor Lighting		
NRCC-LTI-E (Created 01/20)		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in §110.9, §110.12(c),§	30.0, §130.1, §140.6, and §141.0(b)2 for indoor lightin	ig scopes using the prescriptive path.
Project Name: LASSEN COUNTY COURTHOUSE RENOVATION	Report Page:	Page of
Project Address: 220 S LASSEN ST, SUSANVILLE, CA 96130	Date Prepared: August 12,	2020
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
Documentation Author Name: GARRETT DUTTER, P.E.	Documentation Author Signature:	
Company: GLUMAC	Signature Date: January 25, 2020	
Address: 910 GLENN DRIVE	CEA/HERS Certification Identification (if applicable):	
City/State/Zip: FOLSOM, CA 95630-2527	Phone: (916) 934-5103	
RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following under penalty of perjury, under the laws of the State of California:		
1. The information provided on this Certificate of Compliance is true and correct.		
2 I am eligible under Division 3 of the Business and Professions Code to accept responsibilit designer)	y for the building design or system design identified on	this Certificate of Compliance (responsible
3 The energy features and performance specifications, materials, components, and manufact conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regula		identified on this Certificate of Compliance
4 The building design features or system design features identified on this Certificate of Corr worksheets, calculations, plans and specifications submitted to the enforcement agency for	pliance are consistent with the informatin provided on	other applicable compliance documents,
5 I will ensure that a completed signed copy of this Certificate of Compliance shall be made a agency for all applicable inspections. I understand that a completed signed copy of this Certificate of completed signed copy of this Certificate of Compliance shall be made a agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance shall be made a agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance shall be made a agency for all applicable inspections.	available with the building permit(s) issued for the building	
Responsible Designer Name: GARRETT DUTTER, P.E.	Responsible Designer Signature:	
Company: GLUMAC	Date Signed: January 25, 2020	
Address: 910 GLENN DRIVE	License: E21075	
City/State/Zip: FOLSOM, CA 95630-2527	Phone: (916) 934-5103	
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/ti	le24/2019standards	January 2020

(9) LASSEN COURTHOUSE - E124 Forms 2019 - v01k_1_Last!Print_Area



January 2020

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	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards						-	. ,

	-E (Created 11/19)							CALIFORNIA	ENERGY COMMISSIO	
										RCC-L
Project Na						Report Page:			Page	of
Project Ad	dress: 220 S LASSEN ST, SUSA	NVILLE, CA	96130			Date Prepared:	8/12/202	20		
F. OUTDO	OOR LIGHTING FIXTURE SCHEDEUL	E								
existing lui method pe	uctions: For new or altered lighting sys minaires remaining or being moved wit er §141.0(b)2L (ie Table N has expande include existing luminaires remaining o	hin the spaces ed for input), in	covered by the clude only new	permit application luminaires being in	in the Table	below. For altered ligh	iting systems i	using the Existin	g Power	
	02		03	04	05	06	07	08	09	1
Name or Item Tag	Complete Luminaire Descrip	otion	Watts per luminaire (1) (2)	How Wattage is determined	Total number luminaires	Luminaire Status(3)	Excluded per 140.7(a)	Design Watts	Cutoff Req. >= 6,200 initial lumen output §130.2(b)⁴	Fi Insp Pass
H2E	4FT SUS LIN LED STRIP	📑 Linear	39.6 W/LF	0	4 LF	New		158.4	Exempt*	
S1	SUR RND LED DIR	Linear	30	0	1	New		30	Exempt*	
		Linear								
		Linear								
		Linear								
		Linear								
		Linear								
			I			Total Desig	gned Watts:	188.4		_
NOTES:	Selections with a * require a note in the aire is lighting a statue; EXCEPTION 2	e space below	explaining how	compliance is ach	ieved.					

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² For linear luminaires, wattage should be indicated as W/If instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires

³ Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope

⁴ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output \geq 6,200 unless exempted by §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards November 2019

STATE OF CALIFORNIA

CERTIFICA	TE OF COMPLIANC	DE		CALIFORNIA ENERGY COMMISSION NRCC-LTO-E
Project Nan	ne: LASSEN CO	OUNTY COURTHOUSE RENOVATION		Report Page:
Project Address: 220 S LASSEN ST, SUSANVILLE, CA 96130				Date Prepared: 8/12/2020
DOCUMEN	TATION AUTHOR'S	DECLARATION STATEMENT		
Documenta	tion Author Name:	GARRETT DUTTER, P.E.	Documentation	n Author Signature:
Company:	GLUMAC		Signature Date	e: January 25, 2020
Address:	910 GLENN DR	RIVE	CEA/HERS Ce	ertification Identification (if applicable):
City/State/Z	ip: FOLSOM, CA 9	95630-2527	Phone: (91	6) 934-5103
RESPONSI	BLE PERSON'S DE	ECLARATION STATEMENT		
I certify the	following under pena	alty of perjury, under the laws of the State of California:		
1. The info	ormation provided or	n this Certificate of Compliance is true and correct.		
2 I am eliq designe		3 of the Business and Professions Code to accept responsibi	ity for the building	design or system design identified on this Certificate of Compliance (responsible
		rformance specifications, materials, components, and manufa s of Title 24, Part 1 and Part 6 of the California Code of Regul		r the building design or system design identified on this Certificate of Compliance
		s or system design features identified on this Certificate of Co ans and specifications submitted to the enforcement agency f		sistent with the informatin provided on other applicable compliance documents, nis building permit appliaction.
agency		pections. I understand that a completed signed copy of this (e building permit(s) issued for the building, and made available to the enforcement oliance is required to be included with the documentation the builder provides to the
Responsible	e Designer Name:	GARRETT DUTTER, P.E.	Responsible D	esigner Signature:
Company:	GLUMAC		Date Signed:	January 25, 2020
Address:	910 GLENN DR	RIVE	License:	E21075
City/State/Z	ip: FOLSOM, CA 9	95630-2527	Phone: (91	6) 934-5103

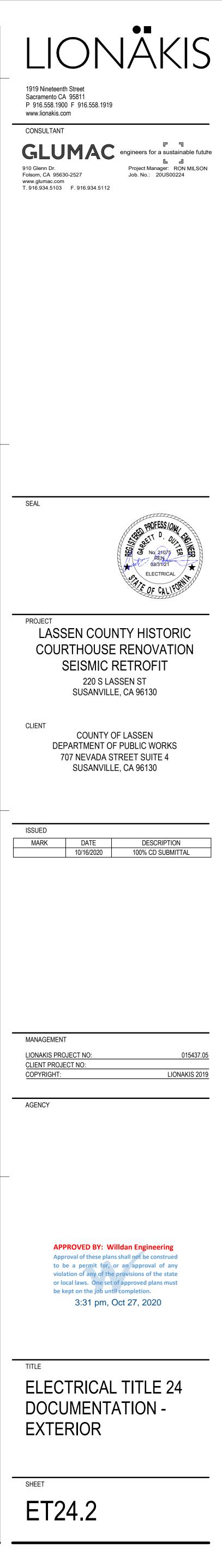
January 2020

CERTIFICATE OF	ated 11/19) F COMPLIANCE				CALIFORNIA ENERG		CC-LT
Project Name:		JRTHOUSE RENOVATION		Report Page:		Page	of
Project Address:	220 S LASSEN ST, SU	SANVILLE, CA 96130		Date Prepared:	8/12/2020		
H. OUTDOOR LIC	GHTING CONTROLS						
alteration projects even if they are w When an option h show "DOES NO dropdown list to ir	s, luminaires which are existin within the spaces covered by having a * is selected, the no T COMPLY" if the notes are indicate not applicable or an e	tes section of this table must be complet left blank. For each requirement in colun	res which are removed and ted. The lighting controls s	d reinstalled (wiring onl	y) do not need to be included in this ce Summary Table on the first page	s table e will	
Mandatory Contro		00			04		05
	01	02	03		04		05
Area D	Description	Shut-Off §130.2(c)1	Auto-Scheo §130.2(c)		Motion Sensor §130.2(c)3	Field In Pass	Fi
STAIRWELL		TIME CLOCK	Yes		OCCUPANY SENSOR		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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November 2019

Ele NRC CEF This hote §14	el/motel occupancies. Additions and alter 1.0(b)2P for alterations.	liance with mandatory requirements in §13 ations to electrical service systems in thes RTHOUSE RENOVATION	30.5 for electrical syst e occupancies will als	iems in newly so use this do Report P	cument to demon	esidential, high-ris	e per §141.0(a) or	NR
Proj	ect Address: 220 S LASSEN ST, SUS GENERAL INFORMATION Project Location (city) SUSANVIL Office Retain	ANVILLE, CA 96130 LE	Hotel/Mot	Date Pre	pared: 8 ithin Project: School	/12/2020 write in):	Page	
	ROJECT SCOPE le Instructions: Include any electrical serv 01	vice systems that are within the scope of th	ne permit application. 03	04	05		06	
	Electrical Service Designation/ Description	Scope of Work ¹	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a) ²	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Where required, specified which a automatically res based messagin response after re	demand Response Contr demand response co are capable of receivir sponding to at least on g protocol which enab eceiving a demand res , §130.1 and §130.3 a C-MCH, NRCC-LTI at	ntrols r ng and ne stan bles der sponse
	MSB	New electrical service equipment & meter	498.8				n demand response c	
¹ FC ² Αρ	DOTNOTES: Adding only new feeder oplicable if the utility company is provi	s and branch circuits triggers Voltage I ding a metering system that indicates	Drop 130.5(c), no o instantaneous kW c	ther requirer	nents from 130.	5 are required. defined period.		
CAE	Building Energy Efficiency Standards - 2019 I	Nonresidential Compliance:						Jan
	TE OF CALIFORNIA							
NRC CEI Pro	CC-LTC-E (Created 01/20) RTIFICATE OF COMPLIANCE	IRTHOUSE RENOVATION SANVILLE, CA 96130		Report F Date Pre	-	CALIF(3/12/2020	ORNIA ENERGY COMM Pag	NRC
Tab dro	pdown choices in column 01, indicate the ctrical Service Designation/Description:	ntirely new or complete replacement electr e load types included for each service. Any	y load types that are r	n systems to o not included ir	the service do no	bliance with §130. ot need to be sho	wn	
	01 Load Type per Table 130.5-B[1]	Minimum Requir	2 red Separation of able 130.5-B		03 Complianc Method ²	e Requirer	04 Location of nents in Construction Documents	Field
	Lighting including exit, egress and exterion Plug Loads and appliances < 25kVA	All lighting disaggregated by floor, the All plug load separate by floor, type exceeding 25 kVA connected load	e or area Groups of pl	lug loads 5000 sf	Method 3 Method 3		Schedules Schedules	
	Elevators, escalators, moving walkways	All loads in aggregate			Method 2	Single	Line Diagram Sheet	
								Ľ
* N	OTES: If "Other*" is selected under Com	pliance Method above, please indicate ho	w compliance has be	en achieved i	n the space provid	ded below.		
² Me Met Met	ethod 1: Switchboards/ motor control cer thod 2: Switchboards/ motor control cent thod 3: Branch circuits serve load types i thod 4: Complete metering system meas	e, up to 10% of the connected load may bo nters/ panelboard loads disaggregated for ers/ panelboard supply other distribution e ndividually & provisions for adding future b ures and reports loads by type	each load type quipment with loads o pranch curcuit monito	disaggregated ring	l for each load typ	be		
	e Chapter 8 of the Nonresidential Compli Building Energy Efficiency Standards - 2019	ance Manual for more detail on Compliand	ce Methods.					Ja

Electrical Power							CALIFO	RNIA ENERGY COMMISS	ION
CERTIFICATE OF COM	IPLIANCE							1	NRCO
Project Name: LAS	SEN COU	NTY COURTHOUSE RE	ENOVATION			Report Page:		Page	
Project Address: 220	S LASSEN	I ST, SUSANVILLE, CA	96130			Date Prepared:	8/12/2020		
C. COMPLIANCE RESI	JLTS								
Table Instructions: If this	s table says	B "DOES NOT COMPLY	" refer to Tab	ble D. for guidance an	d review the	Table that indicates "No".			
	Calcul	ation of Total Allowed L	ighting Powe	er (Watts) 140.7 or 14	1.0(b)2L				
01		02		03		04		09	
Service Electrical		Separation for		Voltage Drop		Controlled			
Metering §130.5(a)	AND	Monitoring §130.5(b)	AND	§130.5(c)	AND	Receptacles §130.5(d)	Cor	npliance Results	
	AND		AND		AND		Cor	npliance Results	
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO	AND	§130.5(b) (See Table G) Yes	AND	§130.5(c) (See Table K) Yes	AND	§130.5(d) (See Table L) Yes	Cor	npliance Results COMPLIES	
Metering §130.5(a) (See Table F)	AND NDITIONS vith unedita	§130.5(b) (See Table G) Yes ble comments because	AND	§130.5(c) (See Table K) Yes	AND	§130.5(d) (See Table L) Yes	Cor		
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled w	AND NDITIONS with uneditations apply	§130.5(b) (See Table G) Yes ble comments because	AND	§130.5(c) (See Table K) Yes	AND	§130.5(d) (See Table L) Yes	Cor		
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled v No exceptional condit	AND AND NDITIONS vith unedita ions apply RKS	§130.5(b) (See Table G) Yes ble comments because to this project.	of selections	§130.5(c) (See Table K) Yes s made or data entere	d in tables th	§130.5(d) (See Table L) Yes	Cor		
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled v No exceptional condit	AND AND NDITIONS vith unedita ions apply RKS	§130.5(b) (See Table G) Yes ble comments because to this project.	of selections	§130.5(c) (See Table K) Yes s made or data entere	d in tables th	§130.5(d) (See Table L) Yes	Cor		
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled v No exceptional condit	AND AND NDITIONS vith unedita ions apply RKS	§130.5(b) (See Table G) Yes ble comments because to this project.	of selections	§130.5(c) (See Table K) Yes s made or data entere	d in tables th	§130.5(d) (See Table L) Yes			
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled v No exceptional condit	AND AND NDITIONS vith unedita ions apply RKS	§130.5(b) (See Table G) Yes ble comments because to this project.	of selections	§130.5(c) (See Table K) Yes s made or data entere	d in tables th	§130.5(d) (See Table L) Yes			
Metering §130.5(a) (See Table F) yes D. EXCEPTIONAL CO This table is auto-filled v No exceptional condit	AND NDITIONS with uneditations apply RKS arks made	§130.5(b) (See Table G) Yes ble comments because to this project.	of selections	§130.5(c) (See Table K) Yes s made or data entere	d in tables th	§130.5(d) (See Table L) Yes			

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H. VOLTAGE DROP

I. CIRCUIT CONTROLS

This Section Does Not Apply

CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance:

January 2020

ION NRCC-LTC-E of 05 ass Field _____ _____ _____ _____

CERTIFICATE OF COMPLIANCE					NRO	CC-LTC	
Project Name: LASSEN COUN	TY COURTHOUSE RENOVATI	ON	Report Page:	F	Page	of	
Project Address: 220 S LASSEN ST, SUSANVILLE, CA 96130 Date Prepared: 8/12/2020							
I. VOLTAGE DROP							
			power distribution systems, or altera tered circuits must demonstrate con	tions that add, modify or replace both pliance per §141.0(b)2Piii.			
01	0	2	03	04		05	
Electrical ServiceCombined Voltage Drop on Installed Feeder/BranchDesignation/ DescriptionCircuit Conductors Compliance Method			Location of Voltage Drop Calculations ¹	Sheet Number for Voltage Drop Calculations in Construction Documents	Field I Pass	nspecto Fie	
MSB	Voltage drop < 5%	Permitted by CA Elec Code (Exception to § 130.5(c))*	N/A	N/A			
NOTES If "Permitted by CA Elec Co	de*" is selected under Complia	nce Method above, please inc	dicate where the exception applies i	n the space provided below.			

STATE OF CALIFORNIA	_								
Electrical Power Distribution NRCC-LTC-E (Created 01/20)						CALIFORNIA ENERGY CO	MMISSION		
CERTIFICATE OF COMPLIANCE							NRCC-LTC-E		
Project Name: LASSEN COUNTY COURTH	OUSE RENOVAT	ION		Report Page	e:	F	vage	of	
Project Address: 220 S LASSEN ST, SUSANV	ILLE, CA 96130			Date Prepar	red: 8/1	2/2020			
					_				
F. INDOOR LIGHTING FIXTURE SCHEDEULE									
Table Instructions: Complete the table below for n	iew or replaceme	nt electrical service	e systems OR eq	uipment to demonstra	te compliance wi	ith §130.5(a).			
Designed Wattage: Conditioned Spaces									
01	02			03		04	()5	
		Requi	ired Metering Cap	pabilities per Table 130	0.5-A		Field Ir	nspector	
Electrical Service Designation/ Description	Rating (kVA)	Instantaneous	Historical Peak		kWh per rate	Location of Requirements in Construction Documents			
		Demand (kW)	Demand (kW)	user-defined period	period		Pass	Field	
MSB	498.8	X		X		Schedule Sheet			
MOD	+30.0								
CA Building Energy Efficiency Standards - 2019 Nonre	sidential Compliand	ce:					Jar	uary 2020	

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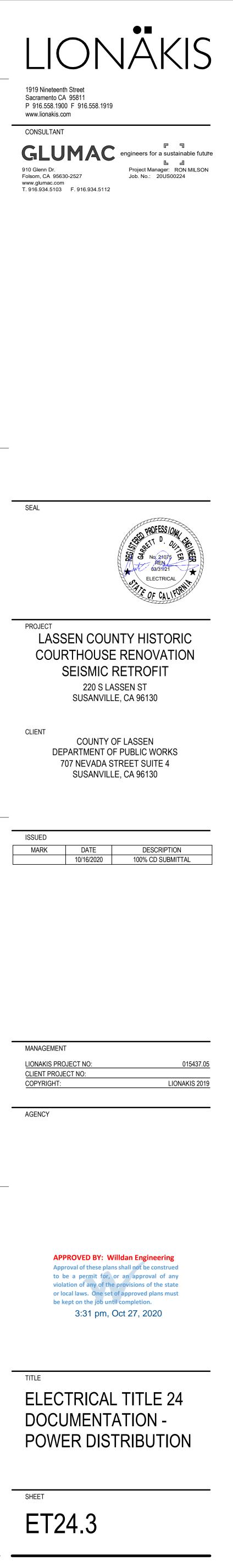
January 2020

January 2020

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STATE OF CALIFORNIA								
Electrical Power Distribution								
NRCC-LTC-E (Created 01/20) CERTIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISSION NRCC-LTC-E							
),§130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.							
Project Name: LASSEN COUNTY COURTHOUSE RENOVATION	Report Page: Page of							
Project Address: 220 S LASSEN ST, SUSANVILLE, CA 96130	Date Prepared: 8/12/2020							
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT								
Documentation Author Name: GARRETT DUTTER, P.E.	Documentation Author Signature:							
Company: GLUMAC	Signature Date: January 25, 2020							
Address: 910 GLENN DRIVE	CEA/HERS Certification Identification (if applicable):							
City/State/Zip: FOLSOM, CA 95630-2527	Phone: (916) 934-5103							
RESPONSIBLE PERSON'S DECLARATION STATEMENT								
I certify the following under penalty of perjury, under the laws of the State of California:								
1. The information provided on this Certificate of Compliance is true and correct.								
2 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)								
3 The energy features and performance specifications, materials, components, and manu conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regu	ufactured devices for the building design or system design identified on this Certificate of Compliance ulations.							
4 The building design features or system design features identified on this Certificate of C worksheets, calculations, plans and specifications submitted to the enforcement agency	Compliance are consistent with the informatin provided on other applicable compliance documents, y for approval with this building permit appliaction.							
 I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy. 								
Responsible Designer Name: GARRETT DUTTER, P.E.	Responsible Designer Signature:							
Company: GLUMAC	Date Signed: January 25, 2020							
Address: 910 GLENN DRIVE	License: E21075							
City/State/Zip: FOLSOM, CA 95630-2527	Phone: (916) 934-5103							

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards



January 2020