

# Lee's Summit R7 District Athletics Facilities

Lee's Summit High School 400 SW Blue Parkway Lee's Summit, MO 64063 **VOLUME 1 Cover Sheet** 

## Project Team:

### owner:

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# September 28, 2020

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# **BID SET**

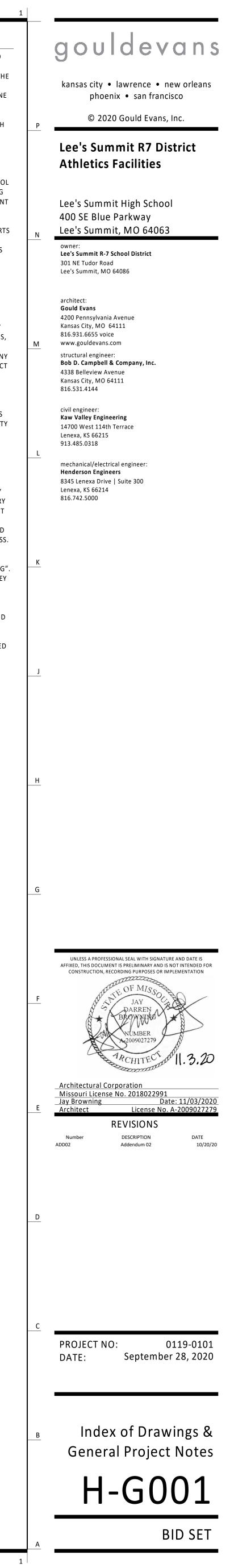
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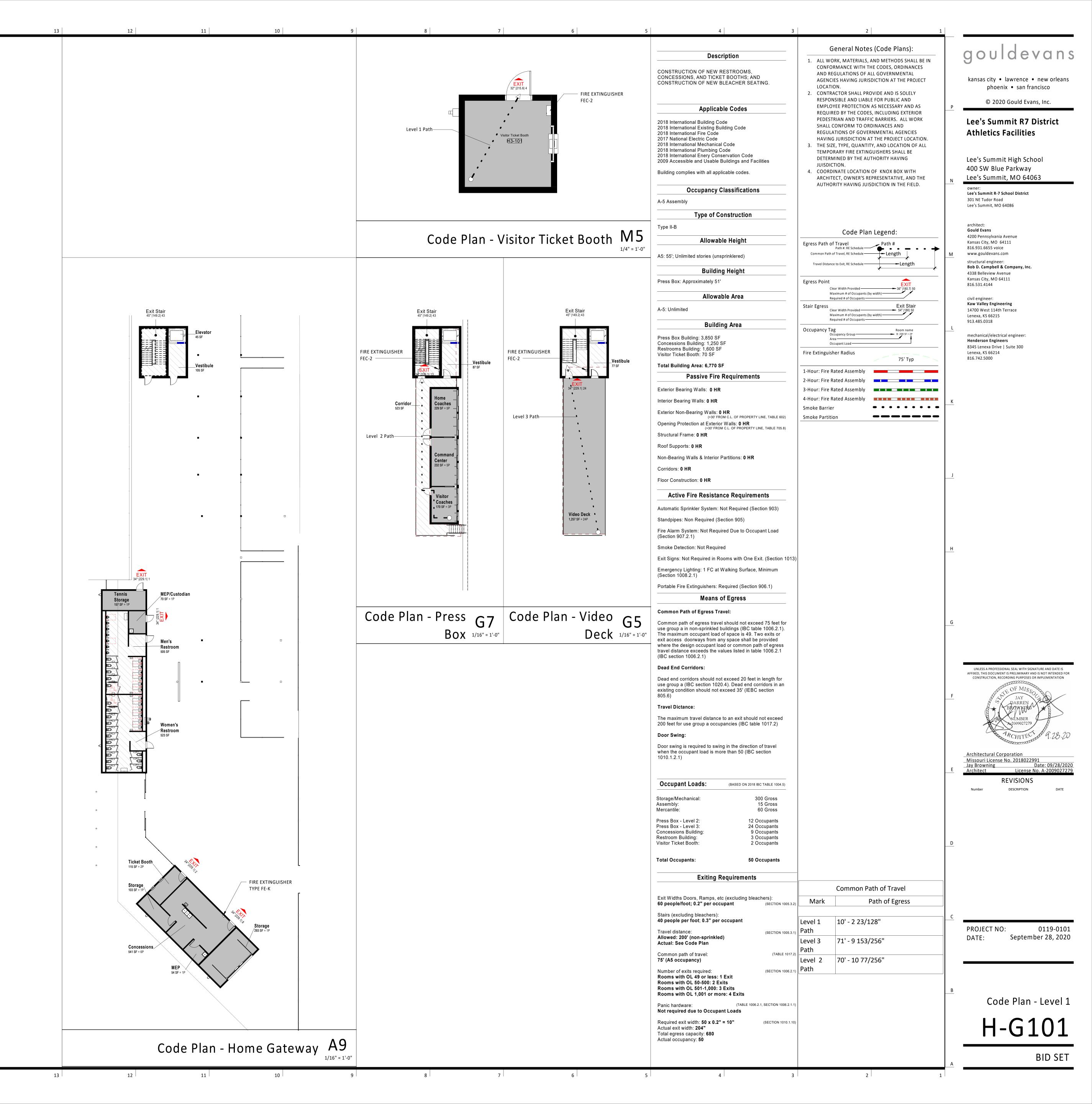
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-E801 ELECTRICAL ONE-LINE DIAGRAM	99.0 Not Used NF-01 Food Establishment Plan	W-TN131TICKET BOOTH - TECHNOLOGY PLANSW-TN500TECHNOLOGY DETAILS
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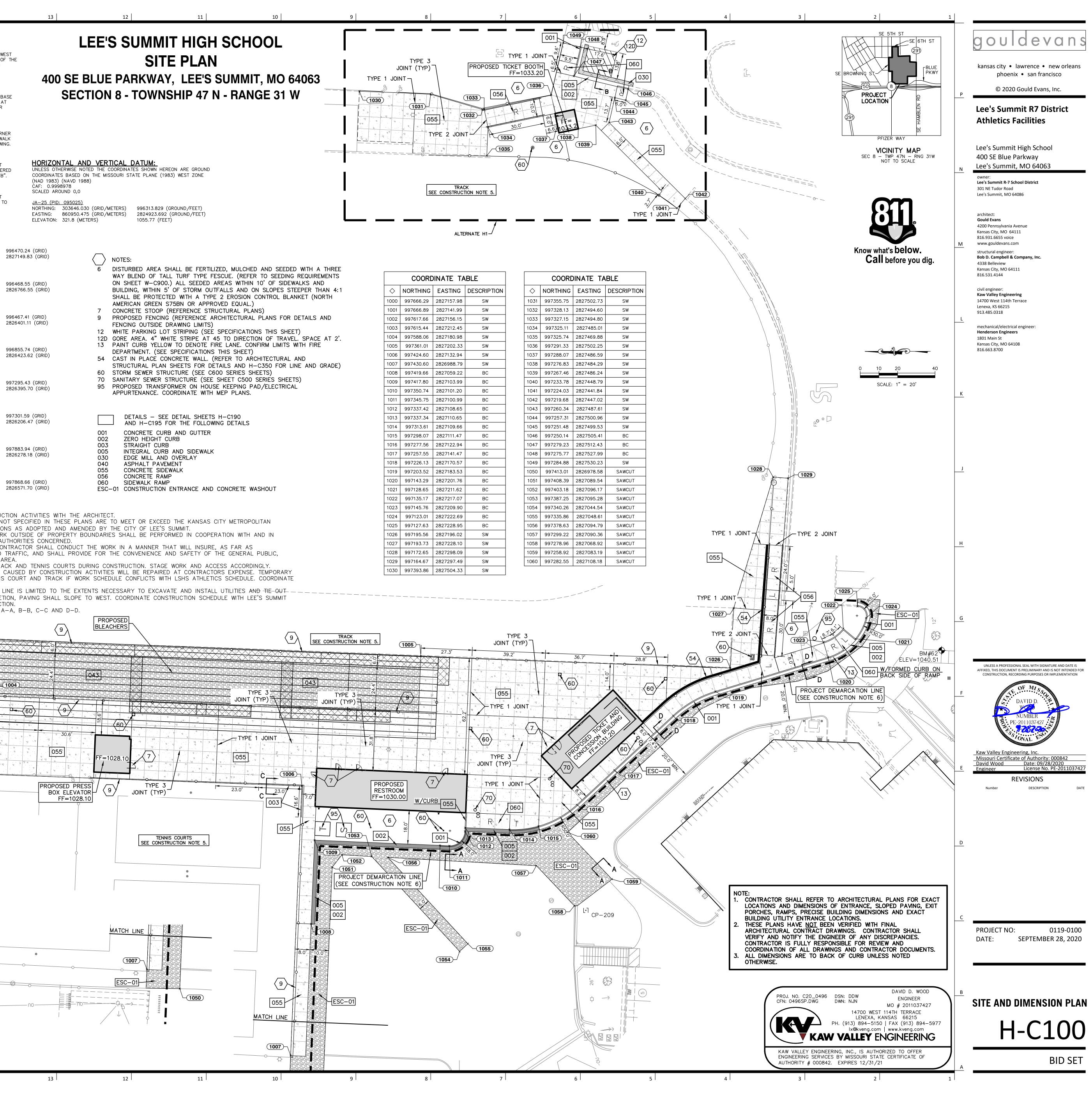
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	STE LOCATION MAP	General Notes:     Internet of the Contract occurrents is to     MUUP FAIL ITEM NOTESSARY OF THE PROPER     EXCUTTACTOR. THE CONTRACT DO CLIMENTS ARE     COMPLETION. NOT CONTRACT DO FILE WORK BY THE     CONTRACTOR. THE CONTRACT OF SHALL BE     REQUIRED ONLY TO THE EXTENT CONSTRUMT WITH     THE CONTRACT OCULARENTS AND RESONANCE     OPRODUCT THE INDICATOR SHALL BE     REQUIRED ONLY TO THE SECURATIONS INTO     DIVISIONS SECTIONS AND AND SUNITS.     ORGANIZATION OF THE SPECIFICATIONS INTO     DIVISIONS SECTIONS AND AND SUNITS.     ORGANIZATION OF THE SPECIFICATIONS INTO     DIVISIONS SECTIONS AND AND CLESS.     AND     DIVISIONS SECTIONS AND AND SUNITS.     ORGANIZATION OF THE SPECIFICATIONS ARE     SECURATIONS OF THE SPECIFICATIONS ARE     SECURATIONS OF THE SPECIFICATIONS ARE TO     DIVISIONS SPECIFICATIONS SARE TO     DIVISIONS SPECIFICATIONS ARE     SECURATIONS. THE SPECIFICATIONS ARE TO     DIVISIONS SHALL GOVEN OVER SPECIFICATIONS.     DECREPARCY BETWEEN DEAVISIONS AND THE     SPECIFICATIONS SARE TO     DIVISIONS SHALL GOVEN OVER SPECIFICATIONS.     DECREPARCY BETWEEN DEAVISIONS AND     DIVISIONS SHALL GOVEN OVER SPECIFICATIONS.     DECREPARCY BETWEEN DEAVISIONS.     DIVISIONS SHALL GOVEN OVER SPECIFICATIONS.     DECREPARCY BETWEEN DEAVISIONS.     DIVISIONS SHALL GOVEN OVER SPECIFICATIONS.     DIVISIONS, IN THE AREAD CONTROLS.     DIVISIONS, AND THE AREAD CONTROLS.     DIVISIONS, IN THE AREAD CONTROLS.     DIN

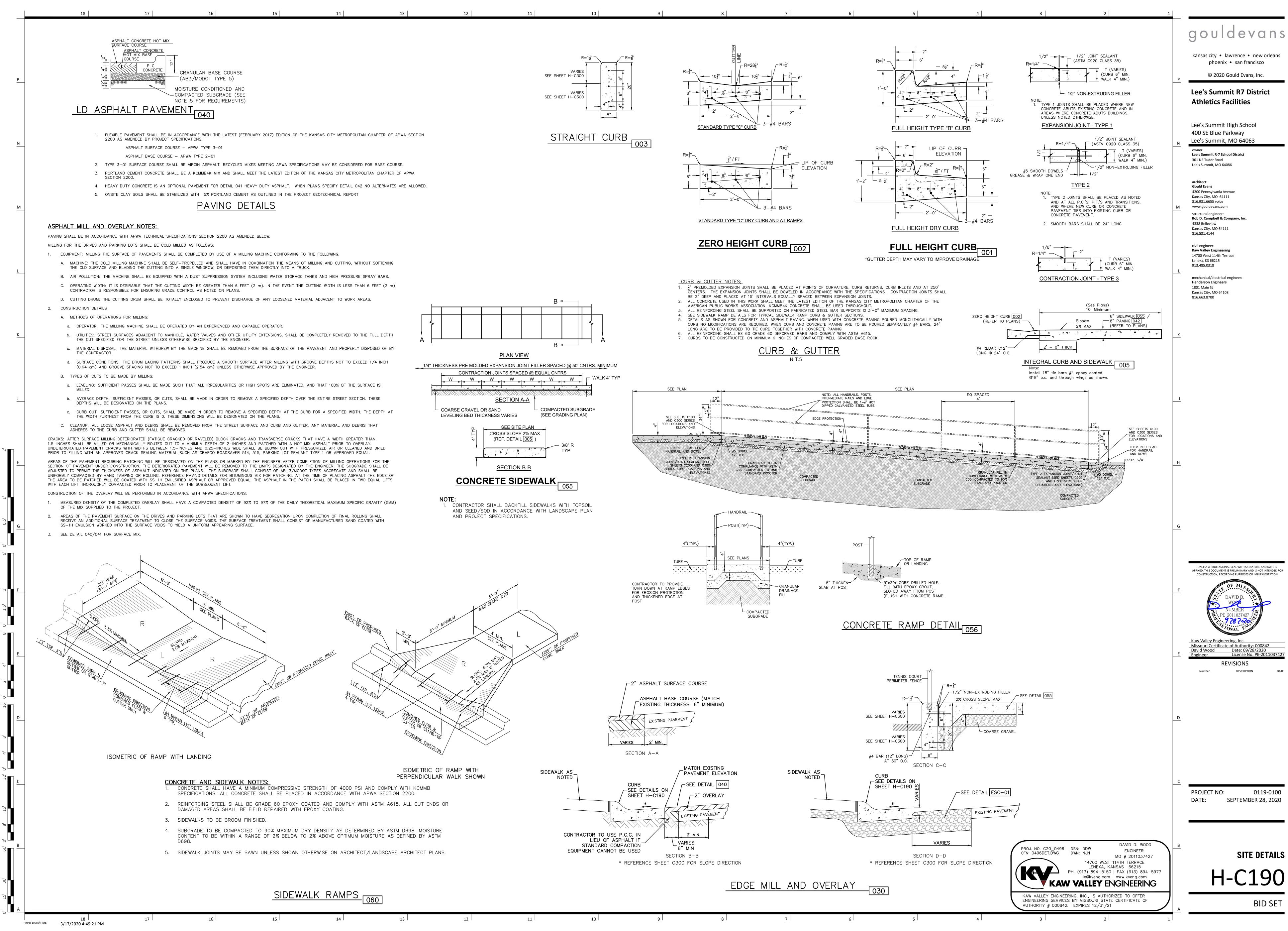


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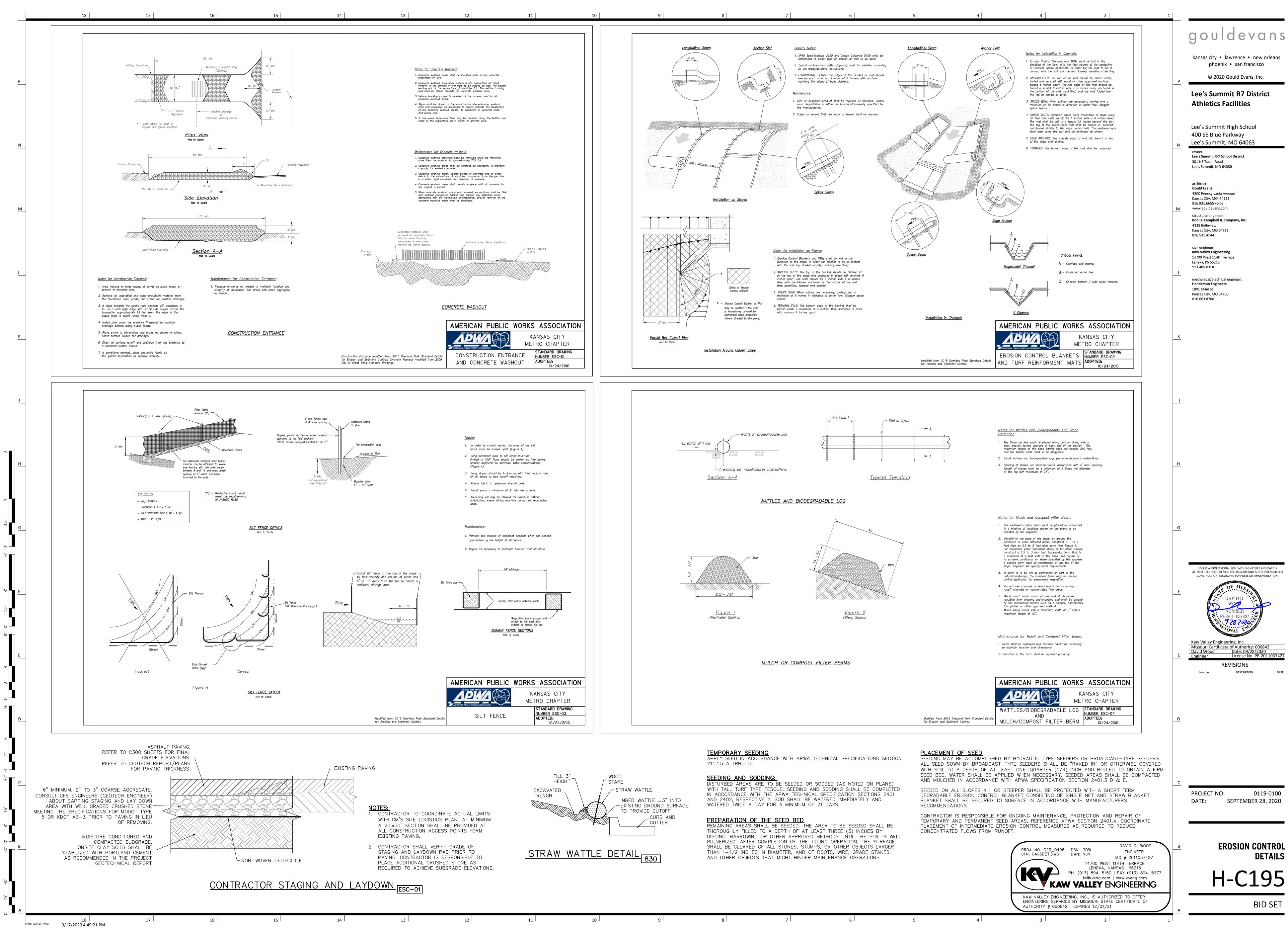


302 SE TRANSPORT RD, LEE'S SUMMIT, MO 64081 PHONE: (816) 986–2421 CONTACT: KYLE GORRELL EMAIL: kyle.gorrell@lsr7.net LEGEND:	PREPARED BY: KAW VALLEY ENGINEERING, INC. 14700 W 114TH TERR. LENEXA, KANSAS 66215 PHONE: (913) 894-5150 CONTACT: DAVID WOOD EMAIL: wood@kveng.com	SITE BENCHMARKS: <u>BM-60</u> FOUND CUT SQUARE AT THE WEST NORTH CONCRETE HEADWALL ON THE WEST SIDE EAST ENTRY DRIVE TO LEE'S SUMMIT HIGH SCHOOL ELEVATION= 1042.70 <u>BM-61</u> SET CUT SQUARE WITH PUNCH IN THE SOUTHWEST EDGE ON A CONCRETE LIGHT ON THE NORTH SIDE OF THE DRIVE LANE THE HIGH SCHOOL ADMINISTRATION CENTE ENTRY.	OF THE H 400 \$ BASE AT	LEE'S SUMMIT HIGH SCHOOL SITE PLAN SE BLUE PARKWAY, LEE'S SUMMIT, MO 64063 SECTION 8 - TOWNSHIP 47 N - RANGE 31 W	TYPE JOINT (TYP JOINT (TYP TYPE 1 JOINT UI030	P)
AIR CONDITIONER WALL MOUNTED ELECTRICAL OUTLET GUNDERGROUND GAS GAS METER	DIP DUCTILE IRON PIPE HDPE HIGH DENSITY POLYETHYLENE WALL MOUNTED LIGHT WALL MOUNTED CAMERA	ELEVATION= 1042.74 <u>BM-62</u> SET CUT SQUARE AT THE NORTHEAST CO OF THE FIRST STEP UP OF A CONCRETE ON THE NORTH SIDE OF THE EAST MAIN ELEVATION= 1040.51	WALK			05 TY
CONTROL POINT BENCHMARK GP <sup>O</sup> GATE POST CHAIN LINK FENCE WOOD FENCE BOLLARD	Ge GAS VALVE GR GAS RISER GAS LINE SIGN DE DOOR ELEVATION AT THRESHOLD	BM-63 SET CUT SQUARE AT THE TOP NORTHEAS CORNER OF A CONCRETE PATIO WITH COV TABLES ON THE EAST SIDE OF BUILDING ' ELEVATION= 1015.74 BM-64	VERED UNLESS OTHER "B". COORDINATES (NAD 1983) (N CAF: 0.99989 SCALED AROUN	78		SE
<ul> <li>➡ STREET/TRAFFIC SIGN</li> <li>➡ PAINTED DIRECTIONAL ARROW</li> <li>TURN LANE DIRECTION</li> <li>▲ HANDICAP SYMBOL</li> </ul>	FF FINISH FLOOR ELEVATION BHE BUILDING HEIGHT/ELEVATION B/B BACK TO BACK OF CURB MEASUREMENT E/E EDGE TO EDGE OF ASPHALT 	SET CUT SQUARE AT THE TOP NORTHEAS CORNER OF STEPS TO THE NORTH ENTRY BUILDING "B" ON THE WEST SIDE. ELEVATION= 1015.34	7 TO <u>JA-25 (PID: 0</u> NORTHING: 30	D3646.030 (GRID/METERS) 996313.829 (GROUND/FEET) 60950.475 (GRID/METERS) 2824923.692 (GROUND/FEET)		
(3) PARKING STALL COUNT ADA HANDICAP SIGN HRMP HANDICAP RAMP WHEEL STOP —FOC— UNDERGROUND FIBER OPTIC CABLE	W       WATER METER         Image: water line gate valve         Image: specific relation for the specific relation of the specif	PROJECT CONTROL: <u>CP #200</u> 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996572.06 (GROUND) EASTING: 2827438.76 (GROUND) ELEV = 1049.49	996470.24 (GRID) 2827149.83 (GRID)	NOTES:		
FOC(R)	SIAMESE FIRE CONNECTOR CANOPY SUPPORT MB <sup>O</sup> MAIL BOX — — — CONCRETE JOINT/CUT LINE	<u>CP #201</u> 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996570.39 (GROUND) EASTING: 2827055.45 (GROUND) ELEV = 1048.24	996468.55 (GRID) 2826766.55 (GRID)	6 DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENT ON SHEET W-C900.) ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL.)	TS COOF 4:1 ◇ NORTHING	٩G
CIO CURB INLET COO SANITARY SEWER CLEAN OUT DSO DOWN SPOUT FDO FLOOR DRAIN D FLARED END SECTION	BUSH DECIDUOUS TREE T/E TRASH ENCLOSURE L/S LANDSCAPING AREA CONC CONCRETE	<u>CP #202</u> 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 996569.25 (GROUND) EASTING: 2826689.97 (GROUND) ELEV = 1042.52 <u>CP #203</u>	996467.41 (GRID) 2826401.11 (GRID)	<ul> <li>AMERICAN GREEN S756N OR APPROVED EQUAL.)</li> <li>CONCRETE STOOP (REFERENCE STRUCTURAL PLANS)</li> <li>PROPOSED FENCING (REFERENCE ARCHITECTURAL PLANS FOR DETAILS AND FENCING OUTSIDE DRAWING LIMITS)</li> <li>WHITE PARKING LOT STRIPING (SEE SPECIFICATIONS THIS SHEET)</li> <li>GORE AREA. 4" WHITE STRIPE AT 45 TO DIRECTION OF TRAVEL. SPACE AT</li> </ul>	1001       997666.89         1002       997617.66         1003       997615.44         1004       997588.06	56 14
	LW LOWEST WIRE HEIGHT FP • FLAG POLE ELECTRIC METER UNDERGROUND ELECTRIC PEDESTAL SPEAKER BOX	MAG NAIL NORTHING: 996957.62 (GROUND) EASTING: 2826712.48 (GROUND) ELEV = 1039.43 <u>CP_#204</u>	996855.74 (GRID) 2826423.62 (GRID)	<ul> <li>PAINT CURB YELLOW TO DENOTE FIRE LANE. CONFIRM LIMITS WITH FIRE DEPARTMENT. (SEE SPECIFICATIONS THIS SHEET)</li> <li>CAST IN PLACE CONCRETE WALL. (REFER TO ARCHITECTURAL AND STRUCTURAL PLAN SHEETS FOR DETAILS AND H-C350 FOR LINE AND GRAE</li> <li>STORM SEWER STRUCTURE (SEE C600 SERIES SHEETS)</li> </ul>	1005 997361.01 1006 997424.60	01 60 60
E UNDERGROUND ELECTRIC     (2) OU OVERHEAD UTILITY LINE (# OF LINES)     P     PULL BOX     ↓     LIGHT POLE     -□ UTILITY POLE	BREAKER BOX BREAKER BOX BREAKER BOX UNDERGROUND GAS PER RECORD SANITARY SEWER LINE PER RECORD D(R) STORM SEWER LINE PER RECORD OVERLAY	1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997397.36 (GROUND) EASTING: 2826684.55 (GROUND) ELEV = 1023.04 <u>CP #205</u> 1/2" REBAR W/ ORANGE KVE CAP	997295.43 (GRID) 2826395.70 (GRID)	<ul> <li>70 SANITARY SEWER STRUCTURE (SEE SHEET C500 SERIES SHEETS)</li> <li>95 PROPOSED TRANSFORMER ON HOUSE KEEPING PAD/ELECTRICAL APPURTENANCE. COORDINATE WITH MEP PLANS.</li> </ul>	1009997417.801010997350.741011997345.751012997337.42	74 75
UTILITY POLE W/ LIGHT UTILITY POLE W/ TRANSFORMER GUY ANCHOR W(R) WATER LINE PER RECORD UNDERGROUND ELECTRIC PER RECORD	Image: Coverlation         I	NORTHING: 997403.51 (GROUND) EASTING: 2826495.31 (GROUND) ELEV = 1018.15 <u>CP #206</u> 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997985.93 (GROUND)	997301.59 (GRID) 2826206.47 (GRID) 997883.94 (GRID)	DETAILS – SEE DETAIL SHEETS H–C190 AND H–C195 FOR THE FOLLOWING DETAILS 001 CONCRETE CURB AND GUTTER 002 ZERO HEIGHT CURB 003 STRAIGHT CURB	1013997337.341014997313.611015997298.071016997277.56	61 07 56
CONIFEROUS TREE	EVERSE FLOW L LANDING R RAMP T TRANSITION	EASTING: 2826567.03 (GROUND) ELEV = 1012.56 <u>CP #207</u> 1/2" REBAR W/ ORANGE KVE CAP NORTHING: 997970.64 (GROUND) EASTING: 2826860.58 (GROUND)	2826278.18 (GRID) 997868.66 (GRID) 2826571.70 (GRID)	005 INTEGRAL CURB AND SIDEWALK 030 EDGE MILL AND OVERLAY 040 ASPHALT PAVEMENT 055 CONCRETE SIDEWALK 056 CONCRETE RAMP 060 SIDEWALK RAMP ESC-01 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	1017997257.551018997226.131019997203.521020997143.29	13 52
PAVEMENT MARKINGS SHALL BE INSTALLED WITH THE LATEST EDITION OF THE CITY OF MISSOURI CHAPTER OF THE AMERICAN PUE ASSOCIATION SPECIFICATIONS SECTION 230 AND AMENDED BY THE CITY OF LEE'S SUM	KANSAS CITY,ALONBLIC WORKS5. CONT06 AS ADOPTEDDAMA	G AND ADJACENT TO CONSTRUCTION RACTOR IS REQUIRED TO PROTECT TR	AREA. RACK AND TENNIS COUF	PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC,	1028997172.651029997164.67	57
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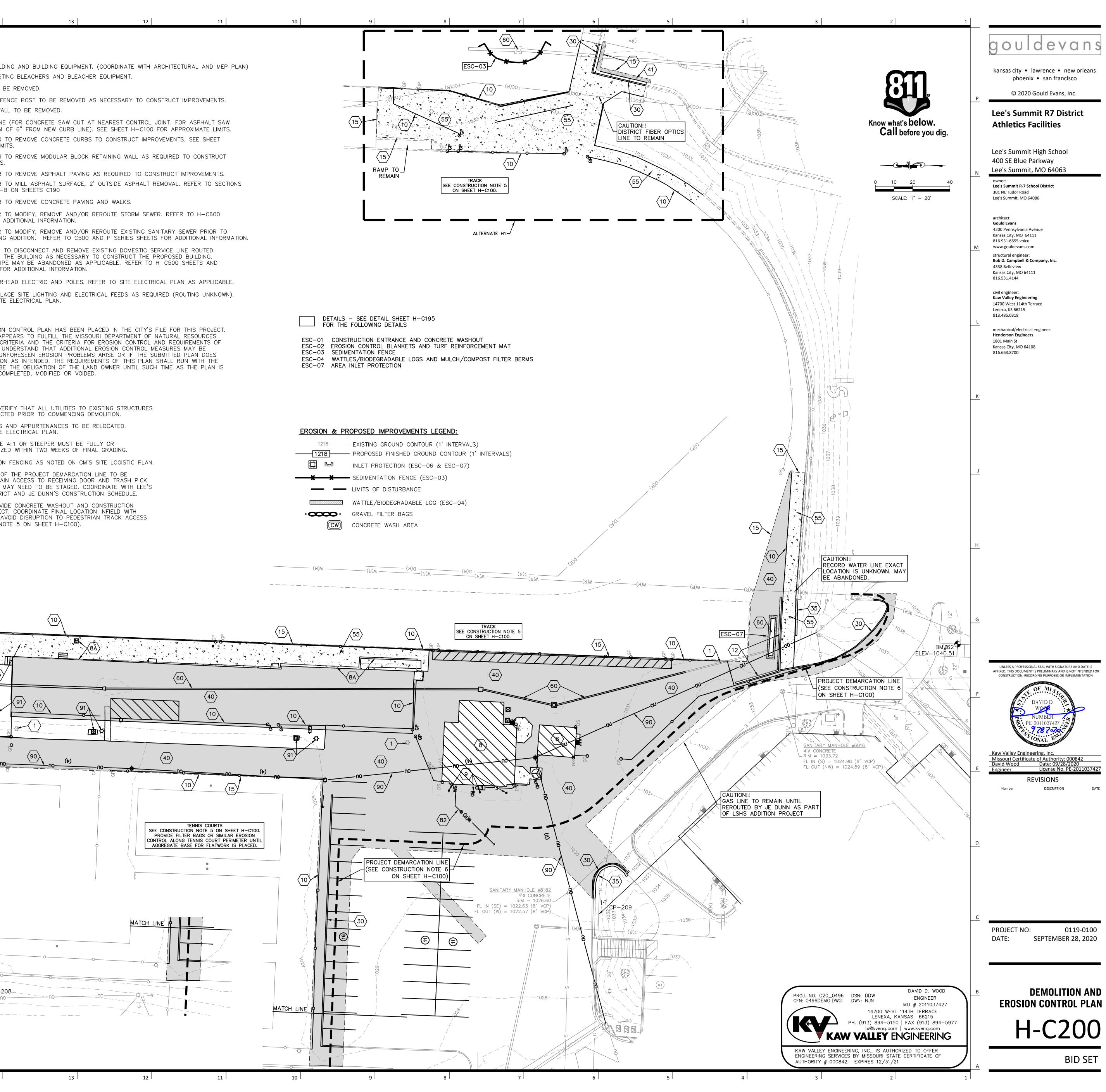


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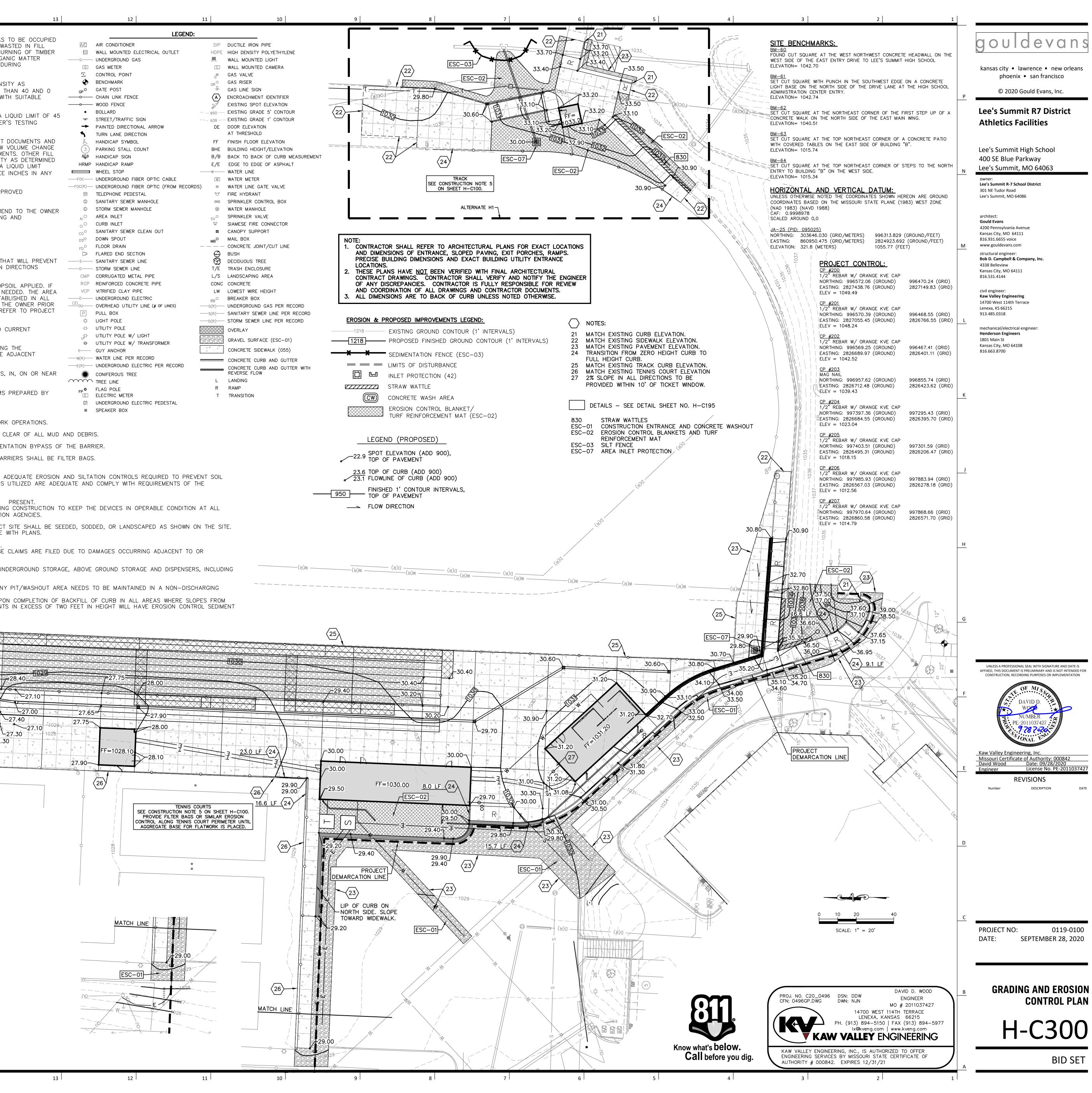
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	<ul> <li>STORM SEWER MANHOL</li> <li>AIO</li> <li>AREA INLET</li> <li>CIO</li> <li>CURB INLET</li> </ul>	LE	MB <sup>O</sup> MAIL BOX ————————————————————————————————————	60 70	CONTRACTOR TO M SHEETS FOR ADDIT CONTRACTOR TO M
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	FLARED END SECTION     SANITARY SEWER LINE     D     CMP CORRUGATED METAL P	F	CONC CONCRETE LW LOWEST WIRE HEIGHT 	90	REMAINING PIPE MA MEP PLANS FOR AI REMOVE OVERHEAD
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_	(2) <sub>0U</sub> OVERHEAD UTILITY LIN P PULL BOX ☆ LIGHT POLE	E (# OF LINES)Gi	(R)	)	<u>NOTE:</u> This erosion con
	-D- UTILITY POLE P- UTILITY POLE W/ LIGH D- UTILITY POLE W/ TRAM		ASPHALT PAVING TO BE REMOVED	RF RFMOVED	THE PLAN APPEAR TECHNICAL CRITER THE CITY. I UNDER
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	1. CONTRACTOR SHALL VE CONTRACTOR SHALL RE	MOVE ALL BUILDINGS, CURBS AND ALL OTHE	UTILITIES, PAVEMENT, ER STRUCTURES FROM WITHIN	7. EXISTIN	BEEN DISCONNECTED F G POWER LINES AND NATE WITH SITE ELEC
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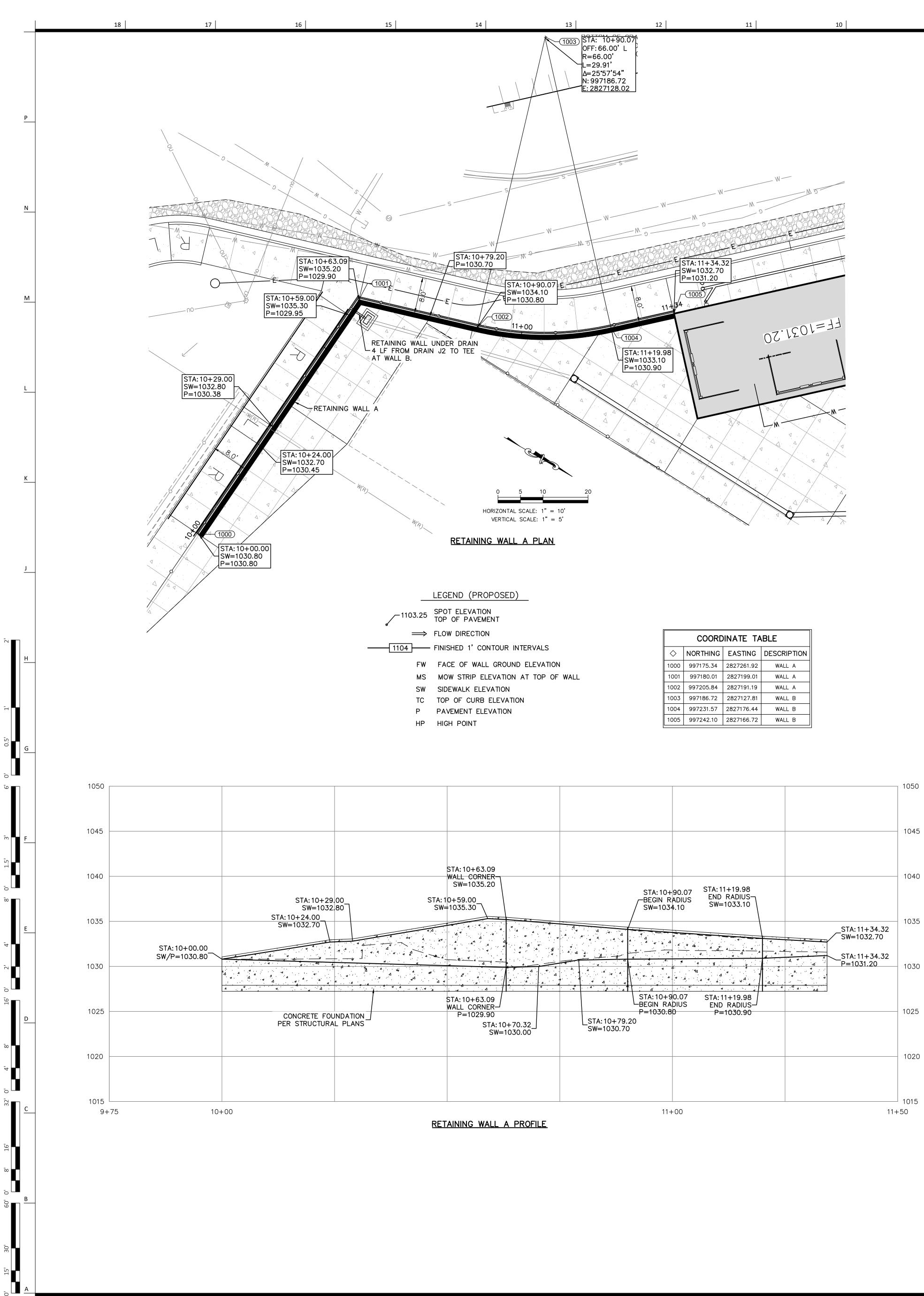


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<ul> <li>Can and contracts and consignation that The Can and C</li></ul>	<u>P</u>	2.	DETERMINED BY ASTM D 698 TO +4% FOR SOILS WITH A L	WITH A MOISTURE CONTE	NT OF +/-3% OF OPT N 40. ANY UNSUITABLE	IMUM FOR SOILS WITH A	LIQUID LIMIT OF LESS 1
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<ul> <li>16. A COMPUTED, OF SIT GRADE AND DUE TO ATTAINED CONSTRUCTS AND THE TAXABLE TO ATTAIN A THE CONSTRUCTS AND AND AREAS UNDER TAXABLE FOR VEETENCE CONSTRUCTS.</li> <li>17. TOSSOL FOR TO BE ALCON TO A CASA UNDER TO A SECTION OF CONSTRUCTS AND THE ADDRESS OF A THE ADDRESS OF ADDRESS</li></ul>		13. 14.	MUD AND DEBRIS SHALL BE ĆI INSPECTION, MAINTENANCE ANI TIMES. ADDITIONAL MEASURES	LEANED UP AT THE CONC D REPAIR OF EROSION CO SHALL BE INSTALLED AS	LUSION OF EACH WORK NTROL DEVICES SHALL	(ING DAY, OR AFTER EACI BE ON GOING THROUGHO	H RAINFALL IF SILT IS UT THE LIFE OF BUILDIN
<ul> <li>22. EPSIGN CONTROL S TO BE PLACED IN PHASING AS CONSTRUCTION PROCESSES.</li> <li>23. MINAL WARK OF CONSTRUCT PROCEED DUPLICATION CONSTRUCTION PROCESSES.</li> <li>24. MINAL WARK OF CONSTRUCTION LUMBER DUPLICATION CONSTRUCTION PROCESSES.</li> <li>25. MINAL WARK OF CONSTRUCTION CONTROL STRUCTURE SHALL BE INSTRUCTION OF FINAL CARDING THE COSTS OF SHALL WARK OF STRUCTURE AREA DRAIN TARGES CUEBE OR SHEWAW WITH E SHALL BE INSTRUCTION OF FINAL GRADING THE TOPS OF ALL EVALUATION OF STRUCTURE MARKED AREA DRAIN CONTROL.</li> <li>26. MINAL WARKS CUEBE OR STRUM WATTER SHALL BE USED TO MAINTAIN THE FORCE MARK OF STRUCTURE MARKED AND CONTROL.</li> <li>27. ALL CONTROL MERSPECS MUL BE USED TO MAINTAIN THEORY OF ALL EVALUATION CONTROL MARKED STRUCTURE MARKED AND CONTROL.</li> <li>28. ALL CONTROL MERSPECS MUL BE USED TO MAINTAIN THEORY.</li> <li>29. ALL CONTROL MERSPECS MUL BE USED TO MAINTAIN THEORY.</li> <li>20. ALL CONTROL MERSPECS MUL BE USED TO MAINTAIN THEORY.</li> <li>20. ALL CONTROL MERSPECS MUL BE USED TO MAINTAIN THEORY.</li> <li>20. ALL CONTROL MERSPECS MUL BE MERSPECTED AT LEAST ONCE MARKED MINAL PHARMED AND CONTROL.</li> <li>20. ALL CONTROL MERSPECS MUL BE MERSPECTED AT LEAST ONCE MARKED MINAL PHARMED AND CONTROL.</li> <li>20. ALL CONTROL MARKED MIN CONTROL.</li> <li>21. BLANDER STRUCTURE THE CONTROL MARKED MINAL PHARMED AND THE CONTROL MARKED AND THE CONTROL MARKED MINAL PHARMED AND THE CONTROL MARKED AND THE CONTROL MAR</li></ul>	1	16. 17. 18. 19. 20. 21.	AT COMPLETION OF SITE GRAD IF GRADING ACTIVITIES CEASE TOPSOIL IS TO BE PLACED IN STRIP TOPSOIL PRIOR TO EXCA THE CONTRACTOR SHALL HAVE DOWNSTREAM FROM PROPERTY GOOD HOUSEKEEPING PRACTICE ALL FUELING FACILITIES PRESE	ING AND OTHER RELATED ON AN AREA OF THE SITI AREAS UNSUITABLE FOR VATION, STOCKPILE AND THE RESPONSIBILITY FOR BY SEDIMENT RESULTING ES SHALL BE MAINTAINED NT ON SITE SHALL ADHER	E DISTURBED SLOPES S VEGETATIVE GROWTH. SPREAD ONTO DISKED RESOLVING COMPLAIN FROM EROSION ON TH ON SITE TO KEEP SOL	SHALL BE TEMPORARILY S SUBGRADE (4" MIN) A TH TS IN THE EVENT THAT C E PROJECT SITE. ID WASTE FROM ENTRY IN	EEDED IN ACCORDANCE IICKNESS OF 4 INCHES. COMPLAINTS OR DAMAGE ITO WATERS.
<ul> <li>THE TOLLOWING PROCEDURES WILL BE USED TO MAINTAIN LESS AND SERVERISTIC MORE AND SERVERISTIC MORE RATIAL EVENUS.</li> <li>A ALL CONTROL MASURES WILL BE INSPECTED AT LEAST ONCE A MEES AND ATTER EXAMINATION CONTROL RAINAL PUNDOS.</li> <li>ALL LEASTER'S MILL BE INSPECTED AT LEAST ONCE AND ADDITION OF ADDITIO</li></ul>	G	22. 23. 24.	EROSION CONTROL IS TO BE P MINIMAL WASHING OF CONCRET MANNER AND ANY WASTE RESI EROSION CONTROL SEDIMENT F DISTURBED AREAS DRAIN TOWA	LACED IN PHASING AS CO E EQUIPMENT ALLOWED, O DUE WILL NEED TO BE CI ENCE OR STRAW WATTLE	CHUTE ETC. CONCRETE LEANED OUT AND REMO SHALL BE INSTALLED ?	WASHOUT OF THE DRUM VED AT THE END OF PRO 1'-0" BEHIND CURB & GU	DJECT. ITTER OR SIDEWALK UPC
A WEEK AND AFTER EACH RANNALLEVENT PRODUCING RUNCET AND DARY SURPORT PROCEEDING RANNALL PERIODS. A LU MEASURES WILL BE MAINTAINE IN GOOD WORKING GOBER. F A REPART IS SUCCESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE INSECTION. 5. SCHOMENT MILL BE RUNCED FOR THE SUIT BARRENS WICH HARS REACHED ONE THEN DECISION. 5. SCHOMENT MILL BE RUNCED FOR DEPTH OF ACCUMULATES SEMENT, FRAS, ATACHMENT TO POSTS, AND STABLEY ON A WILLEY SAMENT SECTION. 5. THEOROGEN AND VERY SUCCESSARY, IT WILL BE MADE WITHIN 5. THEOROGEN AND VERY SUCCESSARY, IT WILL BE MADE WITHIN 1. THEOROGEN AND VERY SUCCESSARY, IT WILL BE MADE WITHIN 5. THEOROGEN AND REACT SUCCESSARY, IT WILL BE MADE WITHIN 5. THEOROGEN AND REACTION FOR ADD PLANTING WILL BE RESPONDED FOR INSPANTING SECTION WANNES. 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS TO BE RESPONDED FOR INSPANTING SECTIONS, MANE HEALTHY GROWTH. 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS TO BE RESPONDED FOR INSPANTING SECTION WANNES. 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL 4. THE ONSPANT TRAINING FOR THE CONSTRUCTION WANNES. 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL 4. THE ONSTRUCTION MANAGER WILL SELECT INDIVIDUALS WILL 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL 5. THEOROGEN. 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL SELECT AND DRAWNOS MADE ANALLAGE TO THE 5. THEOROGEN AND MANAGER WILL SELECT INDIVIDUALS WILL SELECT AND DRAWNOS MADE ANALLAGE TO THE 5. THEOROGEN AND MANAGER WI		-	THE FOLLOWING PROCEDURES V EROSION AND SEDIMENTATION	WILL BE USED TO MAINTAI CONTROLS.		 r	
CODER. IF A REPAIR IS RECESSARY, IT WILL BE MADE WITHIN 24 HOURS OF THE ADDONE THRE OF THE SLIT BARRERS WILD TH HAS REACHED ONE THRE OF THE HOLT BOT THE BARRER. 4. SLIT BARRERS WILL BE INSECTED FOR DECHT OF THE BARRER. 5. TEMPORARY AND REPAINANT SEEDING AND PLANTING WILL BE AND STABILITY ON A WEEKLY BASS. 5. TEMPORARY AND REPAINANT SEEDING AND PLANTING WILL BE RESPONDED FOR INSECTIONS, WASHOUTS, AND PLANTING WILL BE RESPONDED FOR BARE SPOTS, WASHOUTS, AND PLANTING WILL BE RESPONDED FOR INSECTIONS WASHOUTS, AND PLANTING WILL BE RESPONDED TO INSECTIONS WASHOUTS, MUL RECEIVE THE WORKING GREER. 4. UNDERGROUND UTILITY STATEMENT: 1. THE UNDERGROUND UTILITY STATEMENT: 4. UNDERGROUND UTILITY STATEMENT: 5. UNDERGROUND UTILITY STATEMENT IN THE UNDERGROUND UTILITIES SHOWN AND IN THE INFORMATION OF ONE-CAUL LOGATION DEP GTED 5. UNDERGROUND UTILITY STATEMENT IN THE WASHOUTD AND CODE AND CONTROL THE THE SHOW AND			A WEEK AND AFTER EACH RAII RUNOFF AND DAILY DURING PF	NFALL EVENT PRODUCING COLONGED RAINFALL PERIC			
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S TO BE OCCUPIED WASTED IN FILL URNING OF TIMBER GANIC MATTER DURING	AIR CONDITIONER WALL MOUNTED ELECTRICAL OUTLET 	DIP C HDPE F M V C V	DUCTILE IRON PIPE HIGH DENSITY POLYETHYLENE WALL MOUNTED LIGHT WALL MOUNTED CAMERA GAS VALVE		(22) (22) (ESC-03)
ISITY AS THAN 40 AND 0 VITH SUITABLE LIQUID LIMIT OF 45	Image: Benchmark         GPO       GATE POST         Image: Chain link fence         Image: Wood fence         Image: Bollard	GRACE CANE CANE	GAS RISER GAS LINE SIGN INCROACHMENT IDENTIFIER EXISTING SPOT ELEVATION EXISTING GRADE 5' CONTOUR		ESC- 29.80 30.60
T DOCUMENTS AND V VOLUME CHANGE ENTS. OTHER FILL	<ul> <li>➡ STREET/TRAFFIC SIGN</li> <li>➡ PAINTED DIRECTIONAL ARROW</li> <li>▲ TURN LANE DIRECTION</li> <li>▲ HANDICAP SYMBOL</li> <li>③ PARKING STALL COUNT</li> </ul>	DE D A FF F	EXISTING GRADE 1' CONTOUR DOOR ELEVATION AT THRESHOLD FINISH FLOOR ELEVATION BUILDING HEIGHT/ELEVATION		
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PROVED END TO THE OWNER	<ul> <li>TELEPHONE PEDESTAL</li> <li>SANITARY SEWER MANHOLE</li> <li>STORM SEWER MANHOLE</li> </ul>	⊠ S ⊛ ¥	TIRE HYDRANT SPRINKLER CONTROL BOX VATER MANHOLE		ALTERN
IG AND	AIO AREA INLET CIO CURB INLET CO SANITARY SEWER CLEAN OUT DSO DOWN SPOUT FDO FLOOR DRAIN FLARED END SECTION	Sv ⊠ C MB <sup>O</sup> M — — — — — C	SPRINKLER VALVE SIAMESE FIRE CONNECTOR CANOPY SUPPORT MAIL BOX CONCRETE JOINT/CUT LINE BUSH		OR SHALL REFER TO ARCHITEC ISIONS OF ENTRANCE, SLOPED
THAT WILL PREVENT		E E T/E T L/S L	DECIDUOUS TREE TRASH ENCLOSURE .ANDSCAPING AREA CONCRETE	PRECISE B LOCATIONS 2. THESE PLA CONTRACT	UILDING DIMENSIONS AND EXAC ANS HAVE <u>NOT</u> BEEN VERIFIED V DRAWINGS. CONTRACTOR SHA
PSOIL APPLIED. IF NEEDED. THE AREA ABLISHED IN ALL THE OWNER PRIOR REFER TO PROJECT	VCP VITRIFIED CLAY PIPE E	LW L <sub>BB</sub> O B 	ONCRETE OWEST WIRE HEIGHT BREAKER BOX JNDERGROUND GAS PER RECORD GANITARY SEWER LINE PER RECORD	AND COOR	SCREPANCIES. CONTRACTOR IS DINATION OF ALL DRAWINGS AN SIONS ARE TO BACK OF CURB
CURRENT NG THE	<ul> <li>↓ LIGHT POLE</li> <li>□ UTILITY POLE</li> <li>□ UTILITY POLE W/ LIGHT</li> <li>□ UTILITY POLE W/ TRANSFORMER</li> </ul>		STORM SEWER LINE PER RECORD OVERLAY GRAVEL SURFACE (ESC-01)		ROPOSED IMPROVEMENTS LEGEN EXISTING GROUND CONTOUR (1 PROPOSED FINISHED GROUND
E ADJACENT	GUY ANCHOR     GUY ANCHOR     WATER LINE PER RECORD     E(R) UNDERGROUND ELECTRIC PER RECORD		CONCRETE SIDEWALK (055) CONCRETE CURB AND GUTTER CONCRETE CURB AND GUTTER WITH	— <del>X X</del>	SEDIMENTATION FENCE (ESC-C LIMITS OF DISTURBANCE
S, IN, ON OR NEAR	CONIFEROUS TREE	F L L	REVERSE FLOW _ANDING RAMP		INLET PROTECTION (42) STRAW WATTLE
S PREPARED BY	FP       FLAG POLE         E       ELECTRIC METER         II       UNDERGROUND ELECTRIC PEDESTAL         SPEAKER BOX		TRANSITION		CONCRETE WASH AREA EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ES
RK OPERATIONS.					LONG MENT ON OLIVIENT MAT (L
CLEAR OF ALL MUD A					ND (PROPOSED)
ENTATION BYPASS OF	THE BARRIER.				

S UTILIZED ARE ADEQUATE AND COMPLY WITH REQUIREMENTS OF THE





18 |

17

		COORDINATE TABLE					
RINTERVALS	$\diamond$	NORTHING	EASTING	DESCRIPTION			
UND ELEVATION	1000	997175.34	2827261.92	WALL A			
ON AT TOP OF WALL	1001	997180.01	2827199.01	WALL A			
N	1002	997205.84	2827191.19	WALL A			
ATION	1003	997186.72	2827127.81	WALL B			
N	1004	997231.57	2827176.44	WALL B			
	1005	997242.10	2827166.72	WALL B			

	€ OF ALIGNMENT ─	
4"	CONCRETE SIDEWALK/RAMP (SEE PLANS) 12"-#4 TIE BAR @ 24" 0.C.	CHAINL SECURI
	(TIE TO STORM SEWER)	<u>- 1997 - 1997</u>

8

TYPICAL WALL SECTION SEE STRUCTURAL PLANS

14

15

16

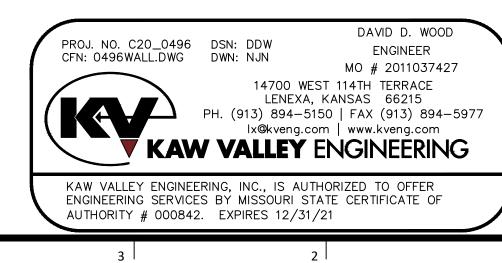
13

### AINLINK FENCE POST CURED TO WALL

## VARIES (SEE PROFILE)

EVATION VARIES (SEE PROFILE)

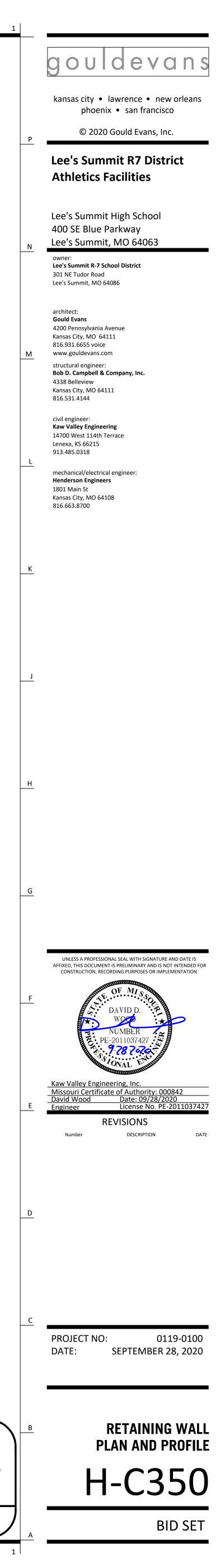
CONCRETE PAVING



7 |

4

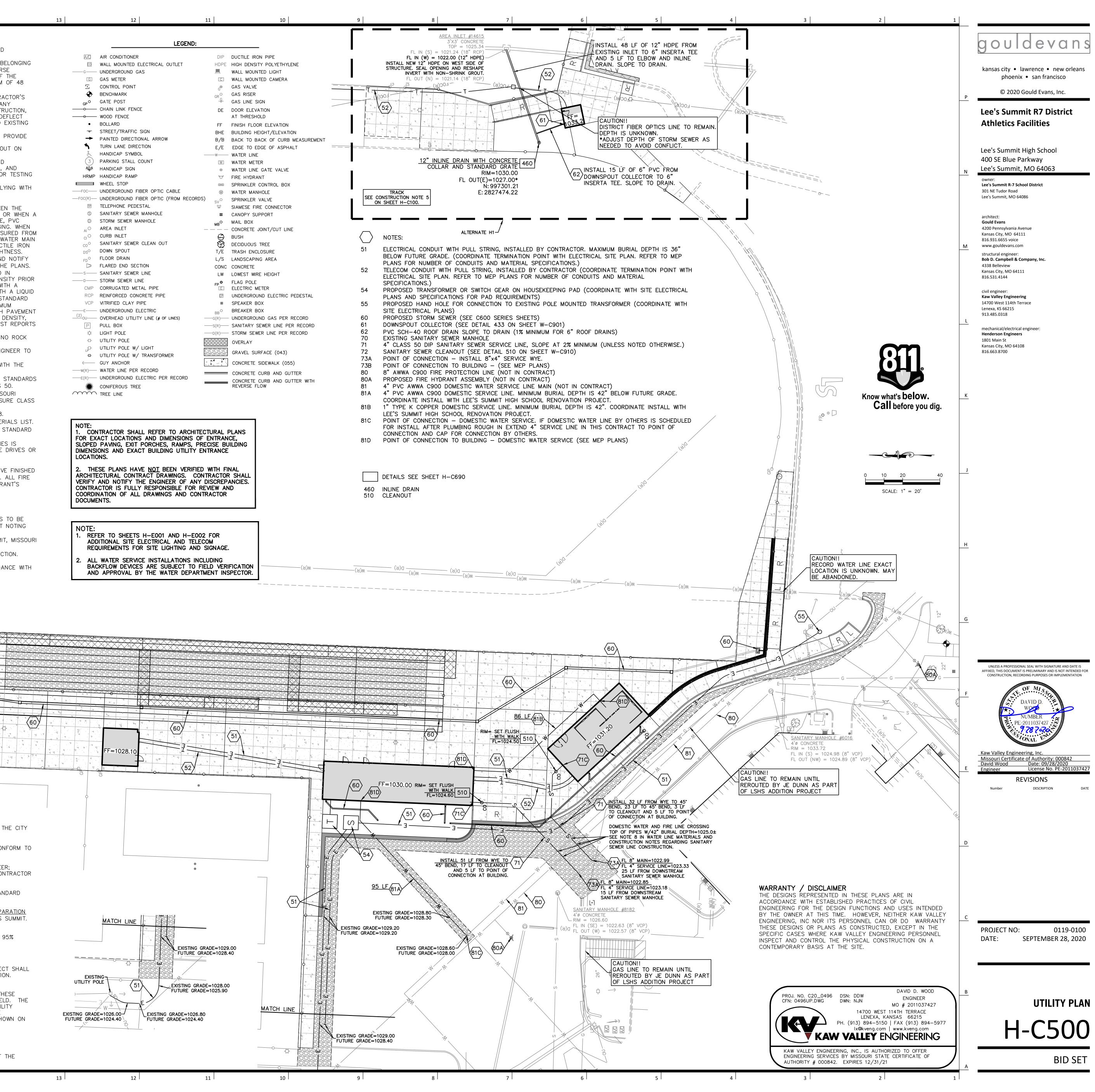
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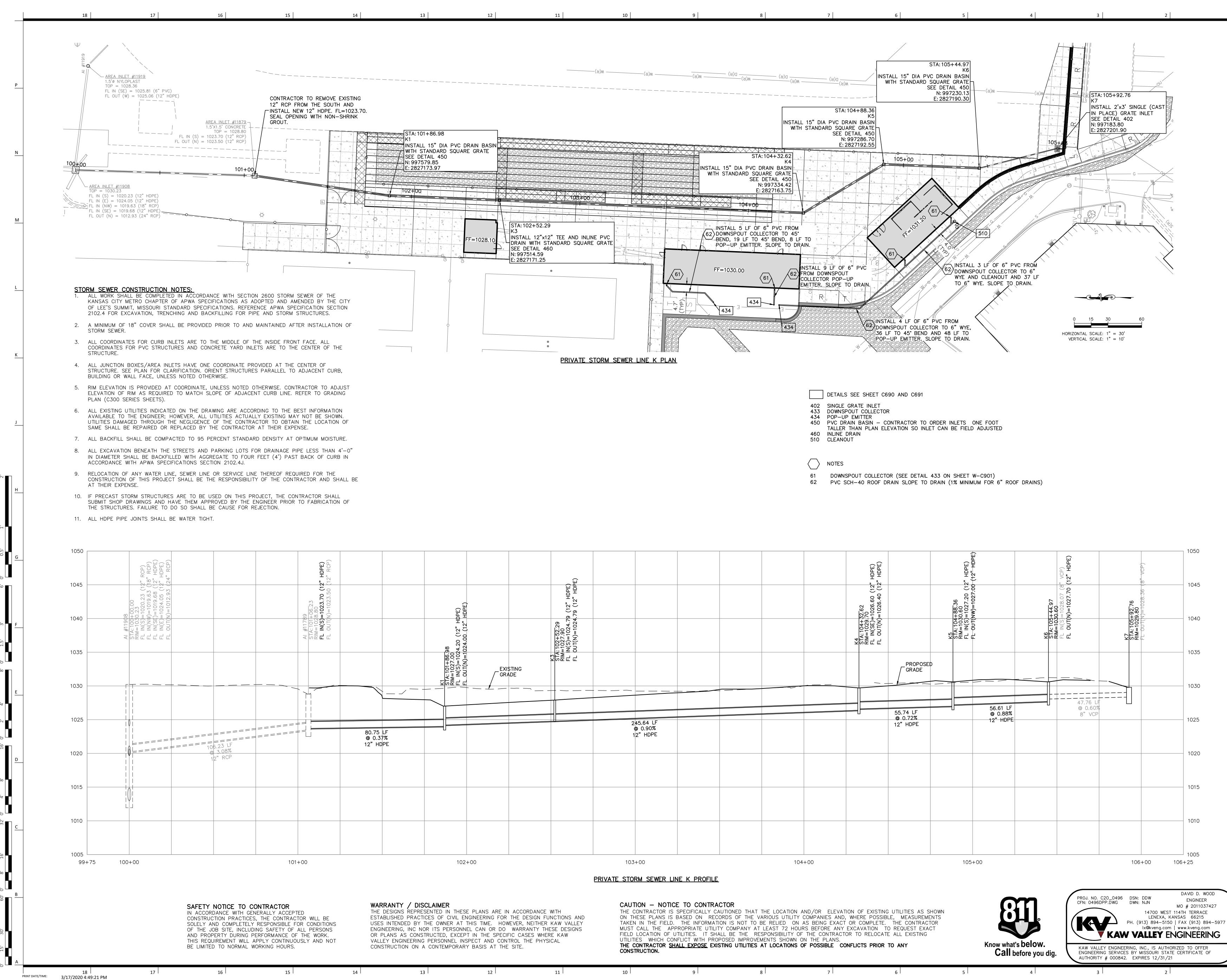


	18	17	16	15	14
	WATER LINE MATERIALS AND				
	CONSEQUENCE OF ANY SCHE	ITION. EN, TURN OFF, INTERFERE WITH, ILITIES DEPARTMENT UNLESS DU DULED OR UNSCHEDULED DISRU	, OR ATTACH ANY P JLY AUTHORIZED TO PTIONS OF SERVICE	PIPE OR HOSE TO OR TAP A DO SO BY THE WATER DIS TO THE PUBLIC ARE TO BE	ANY WATER MAIN BELO STRICT. ANY ADVERSE E THE LIABILITY OF TH
,	HOURS NOTICE TO THE CITY 3. THE UTILITIES AS SHOWN ON RESPONSIBILITY TO VERIFY TH DAMAGE. CONTRACTOR SHALL	ENGINEERING AND OWNER ARE OF LEE'S SUMMIT WATER UTILIT THESE DRAWINGS WERE DEVELO IE LOCATION OF ALL UTILITIES POTHOLE AND EXPOSE ALL UT E, AND MATERIAL OF THE UTILI	IES OPERATIONS DEF DPED FROM THE BES (WHETHER SHOWN O TILITIES AT LEAST 50	PARTMENT PRIOR TO START ST INFORMATION AVAILABLE, R NOT) AND PROTECT SAID 00 FEET IN ADVANCE OF W	ING ANY WORK. IT IS THE CONTRACT UTILITIES FROM ANY ATER MAIN CONSTRUC
	PIPE TO MAINTAIN MINIMÚM 5 UTILITIES. SEPARATION WITH I 4. THE CONTRACTOR SHALL FUR PROPER HORIZONTAL AND VE INSTALLATION OF FIRE HYDRA	FEET HORIZONTAL OF THE OTH FEET HORIZONTAL AND 18 INC NON-POTABLE LINES REQUIRES NISH AND INSTALL, AT NO EXT RTICAL ALIGNMENT FOR THE NE NTS AT THE PROPER LOCATION	CH VERTICAL CLEARA 18 INCH VERTICAL ( RA COST, ALL FITTIN W WATER SERVICE,	ANCES BETWEEN PROPOSED CLEARANCE, SEE CONST. NO NGS AND RESTRAINING DEVI CONNECTING TO EXISTING V	WATER MAIN AND EXI DTE 8. CES REQUIRED TO PRO VATER MAIN, AND
	FLUSHING THE NEW WATER M	SARY FOR TEMPORARY CONNEC AINS AND SERVICE LINES. THE ACE THEM WITH TAPERED BRASS	TIONS FOR PRESSUR CONTRACTOR SHALL S PLUGS PRIOR TO	E TESTING, CHLORINATING, REMOVE ANY CORPORATIO PLACING NEW MAINS IN SEF	DE-CHLORINATING, AN N COCKS USED FOR T RVICE.
	ALL APPLICABLE REGULATION 7. ALL DISTURBED AREAS SHALL 8. WHEN WATER MAINS AND SAN BOTTOM OF THE WATER MAIN WATER MAIN MUST CROSS UN	S GOVERNING THE WORK. BE SEEDED OR STABILIZED AS NITARY SEWERS CROSS, A MININ AND THE TOP OF SANITARY S NDER A SANITARY SEWER, THE	S NOTED ON PLANS. MUM OF 18 INCHES EWER. WHEN 18 INC SANITARY SEWER SH	OF CLEARANCE SHALL BE N HES OF CLEARANCE CANNC HALL BE CONSTRUCTED OF	MAINTAINED BETWEEN T BE MAINTAINED OR DUCTILE IRON PIPE, P
	A WATER MAIN IS CONSTRUC THE OUTSIDE OF THE PIPE O IS CONSTRUCTED CLOSER TH	ESSED CONCRETE CYLINDER PIF TED PARALLEL TO A SANITARY R STRUCTURE. IF A VERTICAL S AN 10.0 FEET TO THE SANITAR R PRE-STRESSED CONCRETE CY HECK ALL DIMENSIONS, COORDIN	SEWER, THE HORIZC SEPARATION OF 18 II Y SEWER, THE SANIT YLINDER PIPE. AND S	NTAL SEPARATION SHALL E NCHES CANNOT BE MAINTAI TARY SEWER SHALL BE CON SHALL BE PRESSURE TESTE	BE 10.0 FEET MEASURI NED AND IF THE WATI STRUCTED OF DUCTILE D FOR WATER TIGHTNE
	10. ALL EXCAVATION AND BACKF UNIFORM LIFTS NOT TO EXCE TO THE NEXT LIFT BEING PLA MOISTURE CONTENT OF WITHI	EPANCIES IMMEDIATELY. NO NEV ILL SHALL MEET OR EXCEED TH ED 8 INCHES IN LOOSE MEASUF CED. THE BACKFILL MATERIAL S N A RANGE OF OPTIMUM TO BE AND +/-3% OF OPTIMUM FOR	E PROJECT SPECIFIC REMENT. EACH LIFT SHALL BE COMPACTI 4 PERCENT ABOVE	CATION. ALL TRENCHES SHA SHALL BE COMPACTED TO ED TO 95% OF THE MAXIMU OPTIMUM MOISTURE CONTE	LL BE BACKFILLED IN THE REQUIRED DENSITY IM DRY DENSITY WITH ENT FOR SOILS WITH A
	PROCTOR (ASTM-D698) UNDE DENSITY AT OPTIMUM MOISTU CROSSING AND AT LOCATIONS SHALL BE RE-EXCAVATED AN SHALL BE PROVIDED TO THE	ER AREAS TO BE PAVED. THE E RE, PLUS 4%, IN AREAS NOT T S DESIGNATED BY THE ENGINEEI ID RE-COMPACTED UNTIL THE F ENGINEER.	BACKFILL MATERIAL S O BE DEVELOPED. C R. ALL TRENCH BAC REQUIRED DENSITY IS	SHALL BE COMPACTED TO S OMPACTION TESTS SHALL E KFILL WHICH DOES NOT MEI S OBTAINED. COPIES OF AL	95% OF THE MAXIMUM BE TAKEN AT EACH PA ET THE REQUIRED DEN L COMPACTION TEST F
	<ol> <li>NO ROCK LARGER THAN FOUL GREATER THAN ONE FOOT SH</li> <li>LOCATIONS SHOWN FOR PROF AVOID CONFLICTS.</li> <li>TAPS 1-1/2" AND LARGER A WATER DISTRICT.</li> </ol>	IALL BE PLACED IN ANY EXCAV POSED WATER LINES ARE APPRO	ATION AS A BACKFI DXIMATE. VARIATIONS	LL. 5 MAY BE MADE, WITH APPI	ROVAL OF THE ENGINE
	15. ALL POLYVINYL CHLORIDE PIP	THE CITY'S CURRENTLY ADOPTE	ED FIRE CODE. THIC ( WITH SECTION 390	XNESS SHALL BE SPECIAL 1.B & D OF THE CITY OF L	THICKNESS CLASS 50 EE'S SUMMIT, MISSOUF
	<ol> <li>SERVICE LINES 2 INCHES IN I</li> <li>ALL VALVES AND OTHER MAT</li> <li>CONSTRUCTION AND INSTALLA SPECIFICATIONS.</li> <li>WATER LINES SHALL HAVE A</li> </ol>	ERIALS SHALL CONFORM TO SE TION SHALL BE IN ACCORDANC MINIMUM COVER OF 42". DEEPE	CTIONS 3901 E THR E WITH SECTION 390 ER EXCAVATIONS FO	U S. REFER TO THE CITY'S D2 OF THE CITY OF LEE'S S R CLEARANCE AT EXISTING	S APPROVED MATERIAL SUMMIT, MISSOURI STA PROPOSED UTILITIES I
	PARKING AREAS ARE TO BE 20. WHERE FIRE HYDRANTS ARE 21. FIRE HYDRANTS SHALL BE IN GRADE, AND SO THAT THERE		MAIN CONSTRUCTION LINES, THE CONTRAC LINE OF THE OUTLET 5 5' IN EACH DIRECT	DN. CTOR SHALL FURNISH A FLI I NOZZLE IS BETWEEN EIGH IION TO ALLOW OPERATION	JSHING DEVICE. TEEN INCHES ABOVE F OF THE HYDRANT. AL
	MANUFACTURER. HYDRANTS 22. ALL TREES SHALL BE SPARED 23. THRUST BLOCKS OR APPROVE 24. CONSTRUCTION INSPECTION W 25. CONTRACTOR SHALL INSTALL	SHALL BE PAINTED AS NOTE IN D UNLESS MARKED. REFERENCE ED JOINT RESTRAINTS SHALL BE ILL BE PROVIDED BY OWNER. PIPE, BENDS AND FITTINGS A 1	N SECTION 3901 Q.9 PROJECT LAND DIS E PROVIDED AT TEES NECESSARY TO MAKI	TURBANCE PLANS. S, BENDS, AND HYDRANT AS E A COMPLETE OPERATIONA	SSEMBLIES. AL SYSTEM. LINE IS TO
	AS-BUILT. CONTRACTOR SHA VALVE AND FITTING LOCATION 26. THE ABANDONMENT OF ALL V STANDARD SPECIFICATIONS. 27. THE CONTRACTOR SHALL VER PROVIDE SOLID SLEEVES AS I	VATER MAINS SHALL BE IN ACC	CORDANCE WITH SEC	TION 3902 B.12 OF THE CIT	TY OF LEE'S SUMMIT, I
	<ul> <li>28. THE CONTRACTOR SHALL FLU SECTIONS 3902 C &amp; D OF TH</li> <li>UTILITY NOTES:</li> <li>1. EXCAVATION, TRENCHING AN</li> </ul>	SH, DISINFECT AND COMPLETE HE CITY OF LEE'S SUMMIT, MISS ID BACKFILL SHALL BE COMPLE	SOURI STANDARD SP		MAINS IN ACCORDANC
	<u>PREPARATION</u> OF THE KANS OF APWA SPECIFICATIONS A CITY OF LEE'S SUMMIT.	ON 2100 <u>GRADING AND SITE</u> SAS CITY METROPOLITAN CHAPTI S ADOPTED AND AMENDED BY MPED. BACKFILL WITHIN THE			
	RIGHT-OF-WAY AND UNDER SHALL BE 95% COMPACTION 3. CONTRACTOR SHALL NOT OF OR ATTACH ANY PIPE OR H	PARKING AREAS AND SLABS OF OPTIMUM MOISTURE. PEN, TURN OFF, INTERFERE WITH OSE TO OR TAP ANY WATER M			
	ADVERSE CONSEQUENCE OF UNSCHEDULED DISRUPTIONS TO BE THE LIABILITY OF TH ENGINEERING AND OWNER A CONTRACTOR SHALL NOTIFY	AUTHORIZED TO DO SO. ANY ANY SCHEDULED OR OF SERVICE TO THE PUBLIC AF E CONTRACTOR. KAW VALLEY		60	
	<ul> <li>HOURS MINIMUM.</li> <li>4. CONTRACTOR TO INSTALL THE NON-METALLIC SERVICE LIN</li> <li>5. CONTRACTOR SHALL EXPOSE</li> </ul>		ONS		
	ANY CONSTRUCTION OF NEV 6. A MINIMUM HORIZONTAL DIS BETWEEN PARALLEL WATER	POINTS OF CONNECTION PRIOR UTILITIES. TANCE SHALL BE MAINTAINED AND SANITARY SEWER LINES. PECIFICATIONS. SECTIONS 3500			
	AND 3900 7. CONTRACTOR TO SCHEDULE				
	SANITARY SEWER MATERIALS 1. ALL WORK RELATED TO SANI OF LEE'S SUMMIT, MISSOURI S	TARY SEWER SHALL BE COMPLE		E WITH SECTION 3500 <u>SANI</u>	TARY SEWERS OF THE
_	3. ALL EXISTING UTILITIES INDICA	E CITY OF LEE'S SUMMIT, MISSO	DURÍ STANDARD SPEC	CIFICATIONS. BEST INFORMATION AVAILABI	_E TO THE ENGINEER;
	TO OBTAIN THE LOCATION OF 4. ALL INSTALLATION SHALL BE	SAME SHALL BE REPAIRED OR	REPLACED BY THE	CONTRACTOR AT HIS EXPE DF THE CITY OF LEE'S SUMI	NSE.
-		POLITAN CHAPTER OF APWA SP CONSIDERED UNCLASSIFIED. REF PED. BACKFILL WITHIN THE RIGH	ECIFICATIONS AS AD FER TO PROJECT GE	OPTED AND AMENDED BY TOTECHNICAL REPORT.	THE CITY OF LEE'S SU
	<ol> <li>ALL STUB LINES SHALL BE L.</li> <li>RELOCATION OF ANY WATER BE THE RESPONSIBILITY OF T</li> </ol>	AID ON 1.00% GRADE FOR 6" P LINE, SEWER LINE OR SERVICE I HE CONTRACTOR AND SHALL BI	LINE THEREOF REQU	IRED FOR THE CONSTRUCTION	ON OF THIS PROJECT
	CAUTION – NOTICE TO CON THE CONTRACTOR IS SPECIFICALL PLANS IS BASED ON RECORDS O INFORMATION IS NOT TO BE RELI COMPANY AT LEAST 72 HOURS E RESPONSIBILITY OF THE CONTRAC THE PLANS.	Y CAUTIONED THAT THE LOCAT OF THE VARIOUS UTILITY COMPA ED ON AS BEING EXACT OR CO BEFORE ANY EXCAVATION TO F TOR TO RELOCATE ALL EXISTIN	ANIES AND, WHERE F OMPLETE. THE CON REQUEST EXACT FIEL G UTILITIES WHICH	POSSIBLE, MEASUREMENTS TRACTOR MUST CALL THE D LOCATION OF UTILITIES. CONFLICT WITH PROPOSED	TAKEN IN THE FIELD. APPROPRIATE UTILITY IT SHALL BE THE IMPROVEMENTS SHOW
	THE CONTRACTOR SHALL EXPOSE SAFETY NOTICE TO CONTRA- IN ACCORDANCE WITH GENERALLY RESPONSIBLE FOR CONDITIONS OF WORK. THIS REQUIREMENT WILL A	- CTOR ^ ACCEPTED CONSTRUCTION PRA 5 THE JOB SITE, INCLUDING SAF	ACTICES, THE CONTR FETY OF ALL PERSON	ACTOR WILL BE SOLELY AN	D COMPLETELY
\	18	17	16	15	14

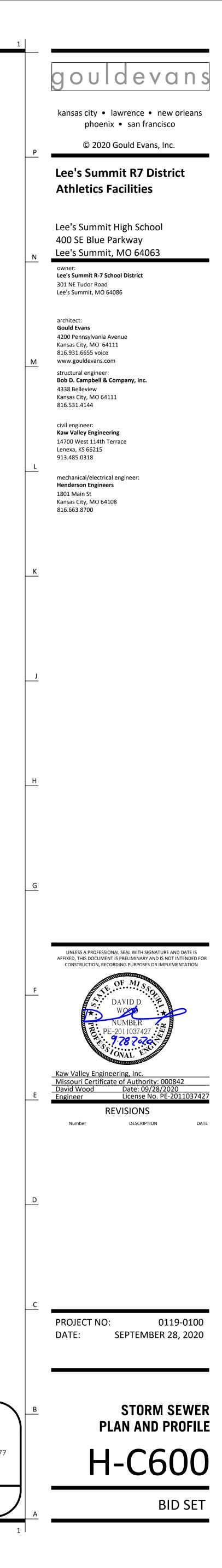
PRINT DATE/TIME:

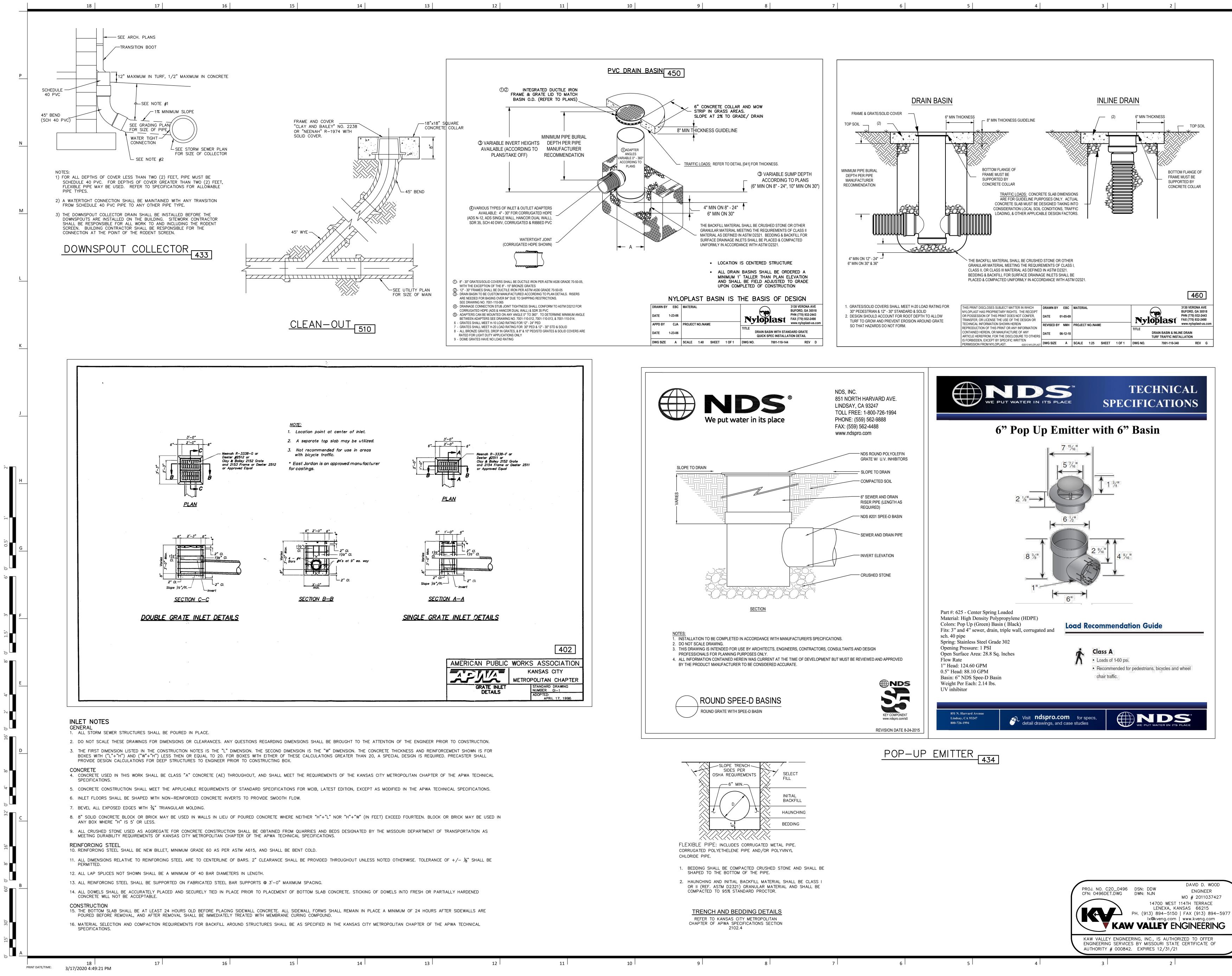
	13	12	11	10	9	8
		LEGENI	D:		Г <sup>-</sup>	AREA INLET #146 3'X3' CONCRE TOP - 1025
ONGING HE PF 48 TOR'S CTION, LECT KISTING ROVIDE F ON ND TESTING NG WITH THE WHEN A PVC WHEN A PVC WHEN RED FROM TER MAIN LESS. NOTIFY PLANS. I TY PRIOR A A LIQUID NDARD A PACEMENT NSITY, REPORTS ROCK WEER TO	$\begin{bmatrix} \square \\ \square $	LEGENI AIR CONDITIONER WALL MOUNTED ELECTRICAL OUTLET UNDERGROUND GAS GAS METER CONTROL POINT BENCHMARK GATE POST CHAIN LINK FENCE WOOD FENCE BOLLARD STREET/TRAFFIC SIGN PAINTED DIRECTIONAL ARROW TURN LANE DIRECTION HANDICAP SYMBOL PARKING STALL COUNT HANDICAP SIGN PARKING STALL COUNT HANDICAP SIGN PARKING STALL COUNT HANDICAP RAMP WHEEL STOP UNDERGROUND FIBER OPTIC (FROM RECO TELEPHONE PEDESTAL SANITARY SEWER MANHOLE STORM SEWER MANHOLE STORM SEWER MANHOLE AREA INLET CURB INLET SANITARY SEWER CLEAN OUT DOWN SPOUT FLOOR DRAIN FLARED END SECTION SANITARY SEWER LINE STORM SEWER LINE CORRUGATED METAL PIPE REINFORCED CONCRETE PIPE	DIP HDPE HDPE CC CR CR CR CR CR CR CR CR CR CR CR CR	J0DUCTILE IRON PIPEHIGH DENSITY POLYETHYLENEWALL MOUNTED LIGHTWALL MOUNTED CAMERAGAS VALVEGAS RISERGAS LINE SIGNDOOR ELEVATIONAT THRESHOLDFINISH FLOOR ELEVATIONBUILDING HEIGHT/ELEVATIONBACK TO BACK OF CURB MEASUREMENTEDEC TO EDGE OF ASPHALTWATER LINEWATER LINE GATE VALVEFIRE HYDRANTSPRINKLER CONTROL BOXWATER MANHOLESPRINKLER VALVESIAMESE FIRE CONNECTORCANOPY SUPPORTMAIL BOXCONCRETE JOINT/CUT LINEBUSHDECIDUOUS TREETRASH ENCLOSURELANDSCAPING AREACONCRETELOWEST WIRE HEIGHTFLAG POLEELECTRIC METERUNDERGROUND ELECTRIC PEDESTALSPEAKER BOXUNDERGROUND GAS PER RECORDOVERLAYGRAVEL SURFACE (043)CONCRETE SIDEWALK (055)CONCRETE CURB AND GUTTER WITHREVERSE FLOW	Image: second	AREA INLET #146
ANDARD IS RIVES OR	FOR E	NTRACTOR SHALL REFER TO ARCH XACT LOCATIONS AND DIMENSIONS D PAVING, EXIT PORCHES, RAMPS, SIONS AND EXACT BUILDING UTILIT	OF ENTRAN PRECISE BU	CE, JILDING	(	CONNECTION AND CAP FOR CONN POINT OF CONNECTION TO BUILDI
FINISHED LL FIRE NT'S	ARCHI VERIFY CONTR	IESE PLANS HAVE <u>NOT</u> BEEN VERI IECTURAL CONTRACT DRAWINGS. ' AND NOTIFY THE ENGINEER OF A ACTOR IS FULLY RESPONSIBLE FOU INATION OF ALL DRAWINGS AND C IENTS.	CONTRACTOR	R SHALL ANCIES.	460	DETAILS SEE SHEET H-C690 INLINE DRAIN CLEANOUT
O BE OTING MISSOURI ON.	AD RE 2. AL	FER TO SHEETS H-E001 AND H-E DITIONAL SITE ELECTRICAL AND TH QUIREMENTS FOR SITE LIGHTING A L WATER SERVICE INSTALLATIONS	ELECOM IND SIGNAGE. INCLUDING			
CE WITH		CKFLOW DEVICES ARE SUBJECT TO ID APPROVAL BY THE WATER DEP			(Я)W —	— м(к) — м(к) — (к) — о(к) — о(к) — о(к) — окальный салага.





HDPE)		79 (12" HDPE) :4.79 (12" HDPE)					
K1   K1   K1   STA: 101+86.98   RIM=1027.00   FL IN(S)=1024.20 (12"	EXISTING GRADE	K3 STA: 102+52.29 STA: 102+52.29 RIM=1027.90 FL N(S)=1024. FL OUT(N)=102					
			24 © 12	45.64 LF ⋑ 0.90% 2" HDPE			
	K1 K1 STA: 101+86.98 RIM=1027.00 FL IN(S)=1024.20 (12" HDPE) FL OUT(N)=1024.00 (12" HDPE)	K1 K1 K1 K1 K1 K1 K1 K1 K1 K1	K1 K1 STA: 101+86.98 RIM=1027.000 FL NI(S)=1024.00 (12" HDPE) FL OUT(N)=1024.00 (12" HDPE) BSTA BSTA TOTALS STA: 102+52.29 RIM=1027.90 TL NI(S)=1024.79 (12" HDPE) FL NI(S)=1024.79 (12" HDPE) FL NI(S)=1024.79 (12" HDPE) FL NI(S)=1024.79 (12" HDPE)	K1 K1 K1 K1 RIM=1027.00 FL IN(S)=1024.00 (12" HDF FL OUT(N)=1024.00 (12" HDF BULSIS ACC (12" HDF FL OUT(N)=1024.00 (12" HDF FL OUT(N)=1024.00 (12" HDF FL OUT(N)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=1024.79 FL IN(S)=10224.79 FL IN(S)=10224.77 FL IN(S)=10224.77 FL IN(S)=1	(3dOH, 21) 6L/F2C01=(N)I/O (3dOH, 21) 6L/F2C01=(N)I/O (3dOH, 21) 6L/F2C01=(N)I/O (3dOH, 21) 6L/F2C01=(N)I/O (3dOH, 21) 007-72C01=(N)I/O (3dOH,	Ki Ki Ki FL N(S)=1024.00 (12" HDF FL N(S)=1024.79 FL N(S)=1024.79	K1         K1           RIM=1027.00:         RIM=1027.00:           RIM=1027.00:         RIM=1027.00:           RIM=1027.00:         RIM=1024.00:           RIM=1024.00:         RIM=1024.79           RIM=1027.90:         RIM=1022.4.79           RIM=1027.90:         RIM=1022.4.79           RIM=1027.90:         RIM=1022.4.79           RIM=1027.90:         RIM=1022.4.79

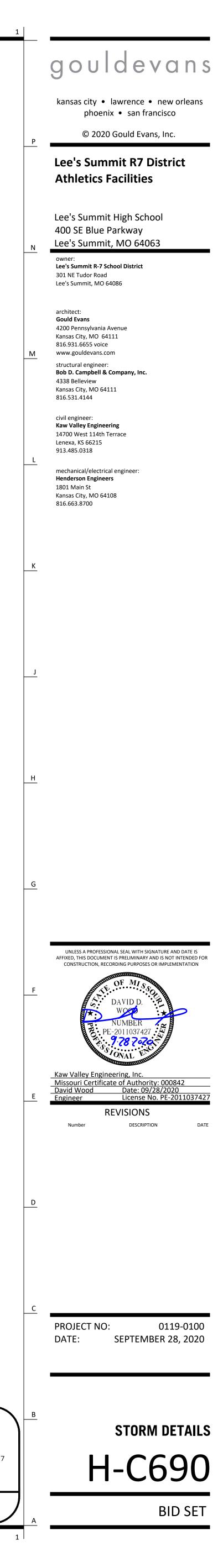


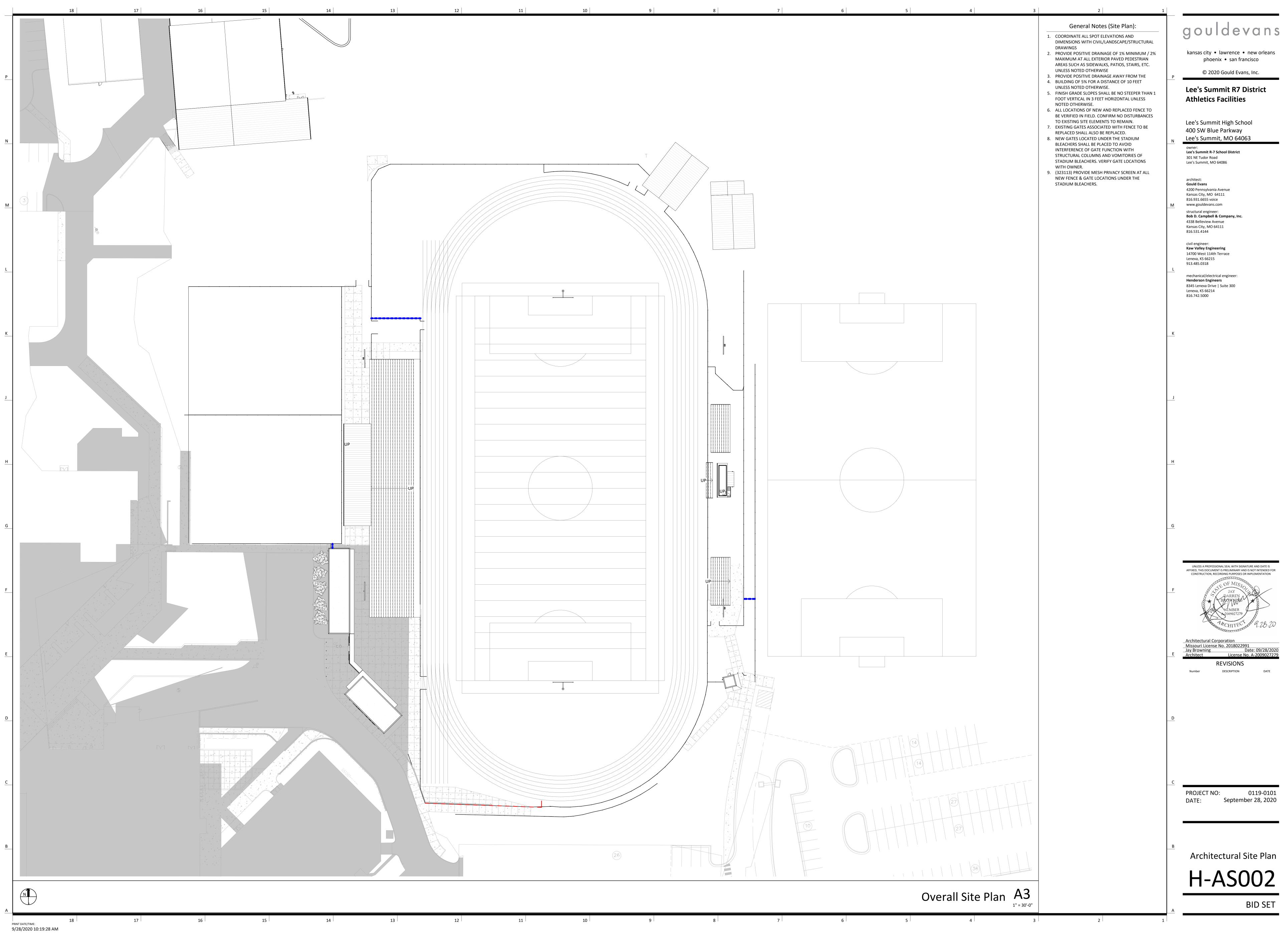


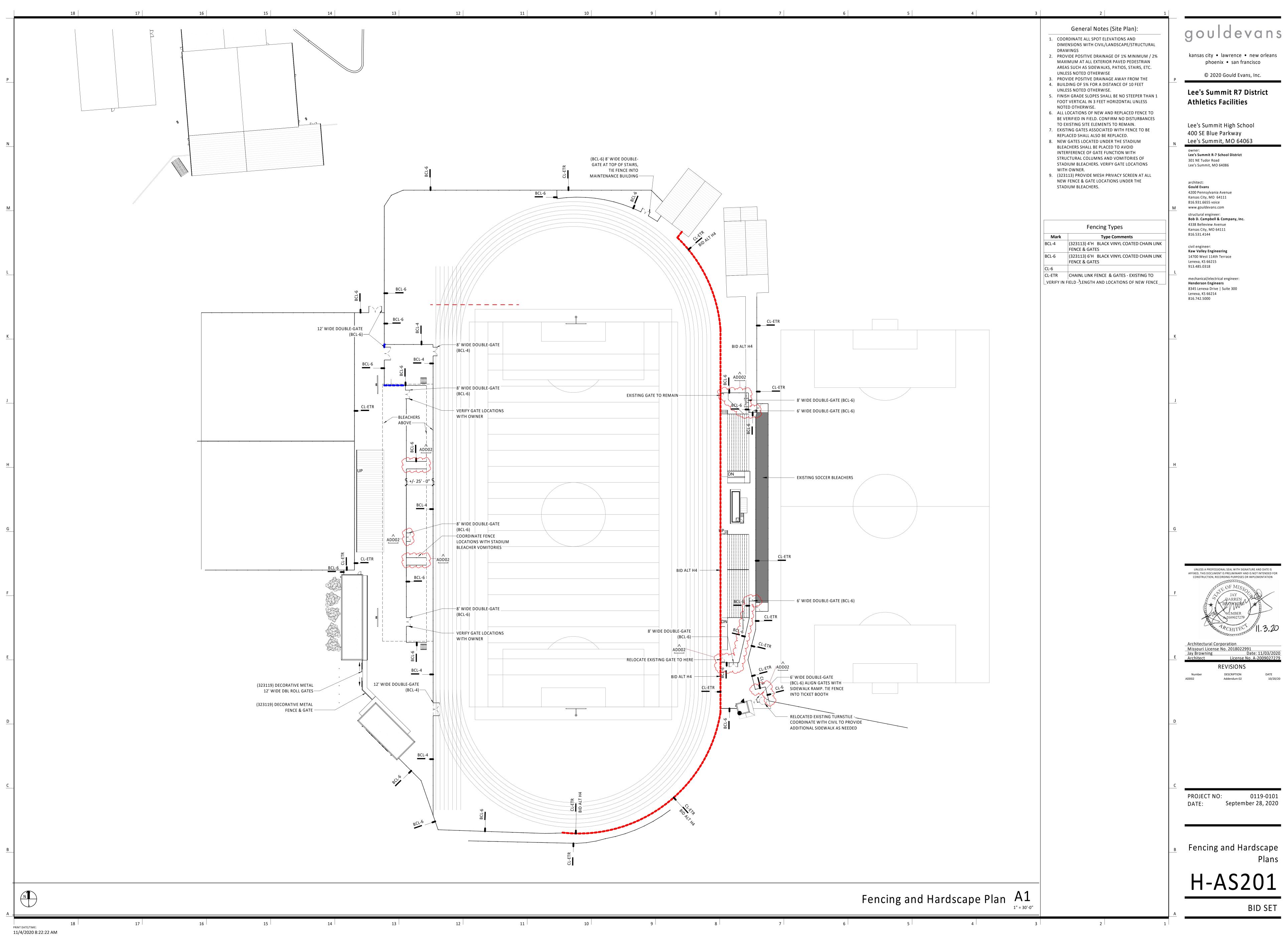


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18	17	16		15	14	
GENERAL NO	TES - STRUCT	JRAL				
1. General Information		5.	Structural Ste	el		
<ul> <li>before proceeding.</li> <li>B. The contractor shall coordinat openings, whether shown on mechanical, or electrical draw contractor shall scan existing core/opening using ground per review prior to coring/cutting. structural work shall be called before proceeding.</li> <li>C. All design and construction we the following governing design</li> </ul>	te all disciplines, verifying size an structural drawings or not, as call vings. In the case of work in an e structure to locate all rebar in the enetrating radar and notify the eng Conflicts, inconsistencies, or othe to the architect or engineer's atter ork for this project shall conform	es affecting the work d location of all ed for on architectural, xisting building the area of the new gineer of record for er difficulties affecting ention for direction to the requirements of	miscellaneou where plates be ASTM A56 AISC 303-05 13th Edition of B. All welding sh C. All exterior st D. All bolts not of All bolts shall AISC Manual reactions sho	s steel shall be ASTM A36 shall be ASTM A572, grad 00, grade B. Fabrication a "Code of Standard Practic of the AISC Steel Construct nall conform to the recomn eel and connections, and I otherwise specified shall be be fully pretensioned. All of Steel Construction "Fra- own in the beam shear con		ent connections tions (HSS) sha ance with ges" in the -dip galvanized. (ASTM A325-N) esigned per the the indicated 0; and, shall
Lee's Summit, MO 2.) Minimum Design Loads fr 3.) Specification for Structura Member Design Basis is Connection Design Basis 4.) Structural Welding Code 5.) Building Code Requireme 6.) Building Code Requireme 7.) North American Specifica Members (AISI S100-16)	or Buildings and Other Structures al Steel Buildings (AISC 360- <b>16</b> ) Allowable Stress Design (ASD) is Allowable Stress Design (ASD (AWS D1.4-2017) ents for Structural Concrete (ACI ents for Masonry Structures (ACI ation for the Design of Cold-Form	s (ASCE7- <b>16</b> ) D) 318- <b>14</b> ) 530- <b>13</b> /TMS 402- <b>16</b> ) ed Steel Structural	specifically sl connection de plates or othe shall be comp the state the bear his/her s E. All anchor bo Washers of n the AISC Ste	hown in the conceptual de esign, such as stiffener pla er connection material. Co pleted under the direct sup project is located and shop seal. Its shall be 3/4" diameter, a ninimum size and thickness el Construction Manual sh	um. Additional connection ele ails in this set but may be req ites, doubler plates, suppleme nnection design and shop dra ervision of a professional eng o drawings and connection ca ASTM F1554, Grade 36 unles s for the given anchor diamet all be provided at every colum	uired by the fin ent/reinforcing awing preparatio ineer licensed i lculations shall as noted otherw er in Table 14-2 an anchor bolt.
Supplements (ANSI/AWC	s for Wind and Seismic (AWC SI	DPWS-2015)	<ul> <li>shall be weld</li> <li>F. Design, fabric recommenda loads given ir load of 200 lb</li> </ul>	ed all around to the column cation and erection of all o tions of the Steel Joist Ins in the standard load tables	e for the anchor bolt. At brac n base plate with 3/16" fillet w ben-web bar joists shall comp itute (SJI). Joists shall be de of SJI Specs and Tables plus ord at any location without ad	eld. ly with the signed to supp an additional p
2. Structural Load Design Cri	teria		the beams wi	ith 1 1/2" of 1/8" fillet weld		
<ul> <li>A. Floor Live = 100 psf</li> <li>B. Roof Live = 20 psf</li> <li>C. Snow: Pg = 20psf, Pf =14psf</li> <li>D. Lateral Loads: <ol> <li>Wind: V = 109 mph, Exp</li> </ol> </li> </ul>		per ASCE/SEI 7	in bond beam wall on the be to beams or b I. All steel joists Specifications	ns. Bearing plates shall be earing side. Joists shall be bearing plates with 1-1/2" o s shall have horizontal bar s. Provide rigid x-bridging	valls shall have 6" x 3/8" x 6" located not more than 1/2" fr ear 4" minimum on bearing pla of 1/8" fillet weld each side (m or angle bridging per Steel Jo in addition to and matching h	om the face of ates and be we inimum). ist Institute orizontal bridgii
Design wind pressures to cladding materials on the be per section 30.7 and T shall be multiplied by effe factors, and topographic f 2.) Seismic: Ss = 0.114, S1 Occupancy [Risk] Catego Site Classification D; Sds	be used for the design of exterior designated zones of wall and roo able 30.7-2 of ASCE/SEI 7. Tab ctive area reduction factors, expo factors where applicable = 0.067 ory II, le=1.0, = 0.121; Sd1 = 0.107	of surfaces shall ulated pressures	<ul> <li>bottom. Joist</li> <li>J. Steel joists sl Pressures Ta</li> <li>K. All openings mechanical e angles (lengt)</li> </ul>	t sweep allowance shall co hall be designed for uplift p able on this sheet. in steel joist roof to have 3 equipment with 4x4x5/16 a h equals mechanical unit o rallel to and welded to top	orizontal bridging is anchored mply with AISC Standard Pra er Components & Cladding R x3x1/4 angle frame set betwe ngles laid between joists fram limension plus distance each and/or bottom cord of joists to	ctice. coof Uplift en joists. Supp ed to 4x4x5/16 end to next par
Equivalent Lateral Force R = 2; V = 0.0605W; Ome E. This project is designed to res	sting System: Drdinary reinforced masonry shea Procedure ega = 2½; Cd=1¾	ing from the load	by the Steel S M. Design and ir Steel Deck In N. Allow <b>1.0</b> ton engineer of re	Joist Institute Specification Installation of steel decking Istitute (SDI). All decking s Is structural steel to be use Decord. Cost for shop draw	shall comply with the recomm shall be galvanized unless not d as directed in field for speci ings, fabrication, delivery, det	nendations of th ed otherwise. al conditions by ailing, and erec
3. Concrete		ue.		d. 50% of structural steel angle and plate.	allowance shall be bid as miso	cellaneous
A. All concrete for foundations (v develop minimum ultimate co but not less than 500 pounds	mpressive design strength of 350 of cement shall be used per cubi led, not over 6 gallons of water pe	00 psi in 28 days, c yard of concrete 6.	Post Installed		ly where specified on the drav	wings unless
<ul> <li>All concrete for interior flatwor ultimate compressive designs 525 pounds of cement shall b strengths obtained, not over 5 not over 4 inches of slump. Contemp: 100 per 1</li></ul>	rk (without floor covering) shall strength of 4000 psi in 28 days, b e used per cubic yard of concrete 5.75 gallons of water per 100 pou oncrete mix shop drawing shall c shrinkage is less than 0.034% at 2	ut not less than regardless of nds of cement and ontain testing data	approved in v spacing and specified pro- required by th an ICC-ES E installed anch	writing by the engineer of re embedment. Performance ducts using appropriate de ne governing building code valuation Service Report. nors. The contractor shall o	ecord. See drawings for anche values of the anchors shall b sign procedures and/or stand . Anchors installed in concre Special inspection is required coordinate an on-site meeting esentative to educate the con	or diameter, be obtained for ards as te shall have I for all post with the post
C. All concrete for interior flatwor ultimate compressive design 540 pounds of cement shall b strengths obtained, not over 5 not over 4 inches of slump. Co	rk ( <u>with floor covering)</u> shall dev strength of 4000 psi in 28 days, b e used per cubic yard of concrete 5.40 gallons of water per 100 pou oncrete mix shop drawing shall c shrinkage is less than 0.034% at 2	ut not less than e regardless of nds of cement and ontain testing data	team on the a B. Mechanical a tested and qu anchors shall C. Adhesive and and qualified	anchor installation guidelin inchors used in cracked ar ialified for use in accordan I be installed per the ancho chors used in cracked and	es and requirements. Id uncracked concrete shall h ce with ACI 355.2 and ICC-ES or manufacturer's written instru uncracked concrete shall hav ICC-ES AC308. All anchors	ave been S AC193. All uctions. 'e been tested
cubic yard of concrete, not ov with 6% +/- 1% air entrainmer F. The preceding minimum mix r	rs, with not less than 560 pounds er 5 gallons of water per 100 pounds nt, and a maximum of 4 inches of requirements may have water-read lded to the mix at manufacturer's	of cement per nds of cement, slump. ducing admixtures dosage rates for	<ul><li>qualified for u per the ancho</li><li>E. Adhesive and qualified for u per the ancho</li><li>F. Anchors used</li></ul>	ise in accordance with ICC or manufacturer's written ir chors used in solid grouted ise in accordance with ICC or manufacturer's written ir d in hollow concrete maso	masonry shall have been tes -ES AC58. All anchors shall	be installed ited and be installed d qualified in
cement content replaced with provided the total minimum ce H. Combined aggregate (coarse	an approved ASTM C618 Class ementitious content is not reduce plus fine) for all concrete shall be	C fly ash, d. e well graded from	shall be insta appropriate s		acturer's written instructions w sives.	
retained on an individual sieve on coarsest sieve and on No.	e than 18 percent and not less th e, except that less than 8 percent 50 and finer sieves. Submit this	may be retained	Foundations	stigation was prepared by	CFS Engineers, the report nu	mber is
Barrier per ASTM E1745 with conditioning. All joints shall b recommendations. All penetr shall also be sealed per manu placement. Install barrier per discontinuous edges (at interi- terms of warranty are followed draining granular material as p	grade shall be placed over 15 mil less than 0.01 perms, tested after e lapped and sealed per manufact ations, as well as damaged vapo ufacturer's recommendation prior manufacturer recommended deta or columns, exterior edge of slab d. The vapor barrier shall be place prescribed by the project soils rep crete unless specifically called out	er mandatory cturer's r barrier material to concrete iils at all , etc.) to ensure eed over free- port.	<ul> <li>20-1229, and</li> <li>B. Spread footin engineered fi</li> <li>C. Retaining wa fluid pressure</li> <li>D. Contractor sh seepage.</li> <li>E. All foundation by the archite</li> </ul>	the telephone number is 9 ngs, grade beams, and reta II or undisturbed soil capat IIs are designed for an acti a. nall provide for dewatering n excavations shall be insp	013-627-9040. ining walls are designed to be ble of safely sustaining 2500ps ve lateral load of 55pcf equiva at excavations from either su ected by a qualified soil engin er, prior to placement of steel	ear on sf. alent rface water or ieer, approved
or areas. Any details not show requirements of ACI 318, curr K. Control joints in dirt formed sla limit controlled areas to not m Slab panel side ratio shall not L. Contractor shall verify that all are correctly located and rigid M. Construction joints in beams,	ab to be as shown on plans. Whore than 144 square feet, or 12 feet, exceed 1 1/2 to 1. concrete inserts, reinforcing and ly secured prior to concrete place	and meet ere not shown, eet on any side. embedded items ement. cur at midspan	design streng G. Moisture con after footing e subgrade ma recompact m Do not place	th prior to being backfilled tent in soils beneath buildin excavations and after grad terials become desiccated aterials to the density and concrete on frozen ground	ng locations should not be allo ing for slabs on grade are con or softened by water or other water content specified for en	owed to change npleted. If · conditions,
construction joints for shear tr N. No aluminum items shall be e	ansfer.		of ASTM C90 using type N	) and have a minimum net mortar such that f'm equal	load bearing walls shall mee compressive strength of 2650 s 2000 psi. Mortar shall be vo	) psi and laid u plume proportio
<ul> <li>4. Reinforcing Steel</li> <li>A. All reinforcing steel shall conference of grade 60 steel. Welded plain</li> </ul>	orm to the requirements of ASTN wire fabric shall be supplied in sl		Any block in o and grouted s B. The contractor during constr	contact with earth shall be solid. or shall provide adequate t uction.	ng shall be completed by box normal weight units, laid using emporary bracing for all masc	g type "S" mort onry walls
to the requirements of ASTM B. Clear minimum coverage of c 1.) Concrete placed against 2.) Formed concrete against 3.) Slabs: 4.) Beams or Columns: 5.) Other	oncrete over reinforcing steel sha earth: 3" earth: 2" 1" 1-1/2" 2"	all be as follows:	or truss) per a D. Cavity wall co used. The ho specification architectural E. Concrete bloc	architectural drawings and onstruction shall be reinfor orizontal joint reinforcing sl and continuous between b drawings. ck shall be reinforced as ir	larger) horizontal joint reinfor specifications (16" maximum ced as designed for specific of hall be of the ladder or truss si rick and block, as prescribed dicated on Sheet H-S002 minimum design ultimate con	vertical spacir concrete block tyle per by the
and spacing of horizontal bars	size and spacing as adjoining ma num unless noted otherwise). , and grade beams supply corner ar diameters) in outside face of w s. Where there are no vertical ba	bars (minimum all, matching size	G. Non-load bear elements with or compressi H. Unless other	500 psi at 28 day test and a aring concrete block walls s n vertical 3/8" control joints ble material and support p wise covered on architectu	B/8" maximum aggregate size shall be isolated from adjacen and at the top of the wall with	t structural n 1" air space rtical control
top bars near midspan and sp otherwise. F. At all holes in concrete walls a 96 diameters long) at each of	all vertical steel shall be lapped 4 d embedments, unless shown oth plice bottom bars over supports, u and slabs, add 2 - #5 bars (openin four sides and add 2 - #5 x 5'-0"	nerwise. Splice Inless noted ng dimension plus diagonally at	be spaced at All horizontal All bond bear I. Lintels over a otherwise cov All exterior lin	a maximum of 24'-0" on c joint reinforcing shall be d n horizontal reinforcing sha all openings up to 8'-0" wid vered shall be one 6x3 1/2 ntels to be galvanized.	enter and coordinated with the scontinuous at control joints i all be continuous through con e in new and existing masonry x5/16 angle for each 4" width by dowels matching wall ver	e architect. n masonry. trol joints. y walls not of masonry.
but with 1 - #5 instead of 2 - # G. Unless otherwise covered on joints in concrete wall shall be coordinated with the architect discontinuous at control joints otherwise. Provide base seal	architectural plans or specification e spaced at a maximum of 20'-0" . Every other horizontal wall rein except heavy top and bottom back waterstop style number 772 (by	ns, vertical control on center and forcing bar shall be rs unless noted Greenstreak Inc. or	reinforcing(ur		n floor slab bottom and bracin	
<ul> <li>H. Accessories shall be as speciand the concrete Reinforcing accessory spacing shall be 4' surfaces are to have plastic c</li> <li>I. All slabs and stairs not shown center each way. All exterior</li> </ul>	Steel Institute Design Handbook. -0" on center, and all accessories	etailing Handbook Maximum s on exposed #4 bars at 12" on e detailed may be				
<ul> <li>#4 bars at 12" on center each adjacent walls or grade beam embedded 48 diameters into I drainage unless noted otherw</li> <li>J. Allow ½ ton of reinforcing bars field for special conditions by</li> </ul>	way minimum. Porches shall be s with #4 bars at 12" on center, h both members. Slope porches 1, ise.	e doweled to ooked or /8" per foot for ted in the				
be included).						
 18	17	16		15	14	

- 9. Light Gage Metal Structural Framing
- A. All load bearing, light gage structural studs, track, and bridging shall be of the type, size, gage, and spacing as shown on the plans, minimum.
- All materials shall be 33,000 psi minimum yield, except studs of 16 gage or heavier shall have a minimum yield of 50,000 psi.
- C. All properties, fabrication, and erection shall be in accordance with latest editions of
- the AISI "Specifications for the Design of Cold-Formed Structural Members." D. All framing components shall be cut squarely or at an angle to fit squarely against abutting members. Splicing of axially loaded members is not permitted. Members shall be held firmly in place until properly fastened. Attachments of similar components shall be by welding, screw attachment, or bolting. Wire tying of components is not permitted.
- E. Tracks shall be securely anchored to floor and overhead members. Special anchorage requirements required for wind bracing shall be as shown on the plans. F. Prior to fabrication and/or erection, the contractor shall submit shop drawings complete with detail of erection, fabrication, attachments, anchorages, lintels, etc., for review by the architect/engineer.

### 10. Shop Drawing Review

- A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by
- Bob D. Campbell and Company, Inc. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
  - 1.) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC. 2.) Review and approve each submission.
- 3.) Stamp each submission as approved. C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises
- a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation. . Bob D. Campbell and Company, Inc. shall review shop drawings and related
- materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp. E. Shop drawings and related material (if any) required are indicated below.
- Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
- 1.) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement. 2.) Reinforcing steel shop drawings including erection drawings and
- bending details. Bar list will not be reviewed for correct quantities. 3.) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
- 4.) Grout mix designs (for CMU). 5.) Construction and control joint plans and/or elevations.
- 6.) Structural steel shop drawings including erection drawings and piece details. Include joist, decking and connector submittals. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review. 7.) Structural steel connection design calculations submitted concurrently
- with structural steel shop drawings. 8.) Miscellaneous anchors shown on the structural drawings. 9.) Standard details and bridging information for light gage metal framing. Erection plans and details for light gage metal joists and lintels spanning more than 6'-0" shall be submitted. Standard wall framing need not be submitted.

### s for anchor diameter, ors shall be obtained for d/or standards as

- in concrete shall have s required for all post e meeting with the post te the construction
- ete shall have been
- and ICC-ES AC193. All ritten instructions. e shall have been tested
- ll anchors shall be ave been tested and

### hors shall be installed e been tested and

### tested and qualified in priate. All anchors tructions with

- $\sim$ e report number is igned to bear on ing 2500psf. pcf equivalent either surface water or I soil engineer, approved ent of steel or concrete.
- all have attained its not be allowed to change de are completed. If er or other conditions, ified for engineered fill.

### shall meet the requirements gth of 2650 psi and laid up shall be volume proportion

- ed by box measure. s, laid using type "S" mortar r all masonry walls
- pint reinforcing (ladder maximum vertical spacing). specific concrete block or truss style per rescribed by the

### -S002 Itimate compressive

- egate size. n adjacent structural e wall with 1" air space cations, vertical control t of wall. Joints shall ed with the architect.
- trol joints in masonry. rough control joints. g masonry walls not h 4" width of masonry.
- g wall vertical and bracing angles at

- A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be printed for distribution to the owner, architect, and general contractor for these drawings for any purpose or in any manner.
- Bob D. Campbell and Company, Inc., do hereby accept professional the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction

A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections. B. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person. C. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building

11. Statement of Structural Special Inspections

- official and structural engineer. D. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable
- E. The following inspections and tests are required with the frequency (continuous or periodic) as defined within the referenced section or standard listed below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those
- 1. Shop Fabrication structural steel and steel bar joist per Section 1704.2.5 unless AISC certified shop Shop Fabrication – pre-engineered wood trusses per Section 1704.2.5 unless TPI
- certified shop 3. Steel Construction per Section 1705.2 and the quality assurance requirements of
- 4. Cold-Formed Steel Deck per Section 1705.2.2 and the quality assurance
- b. Reinforcing Steel Welding
  - e. Design Mix Verification
- g. Concrete Placement h. Concrete Curing
- of TMS 402/ACI530/ASCE5 and TMS602/A530.1/ASCE6 [Level B]

12. Copyright and Disclaimer

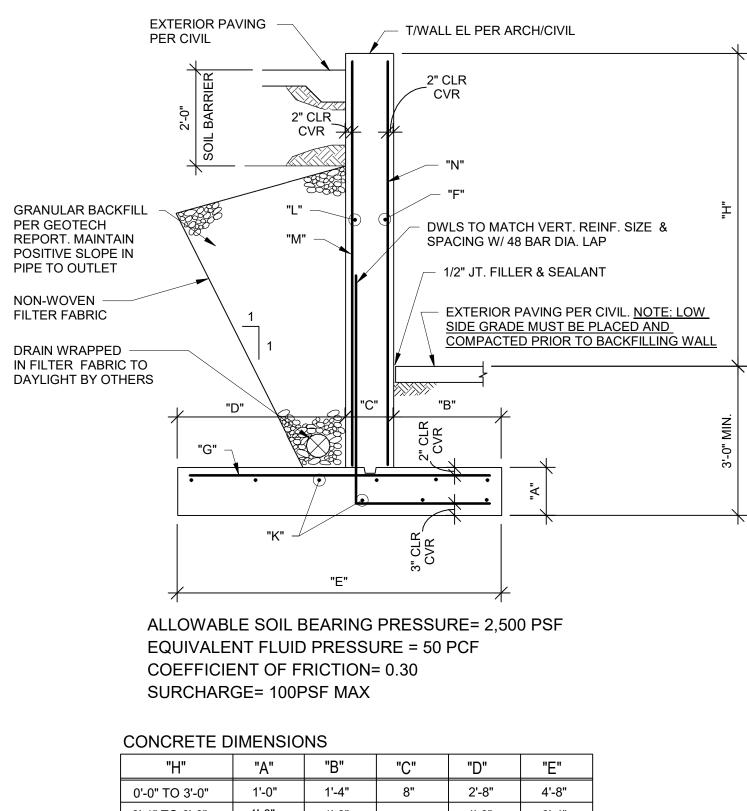
photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be coordination, bidding, and construction. Subcontractors may not reproduce B. I, Richard C. Crabtree, P.E., registered engineer and a representative of

responsibility as required by the professional registration laws of this state for document package.

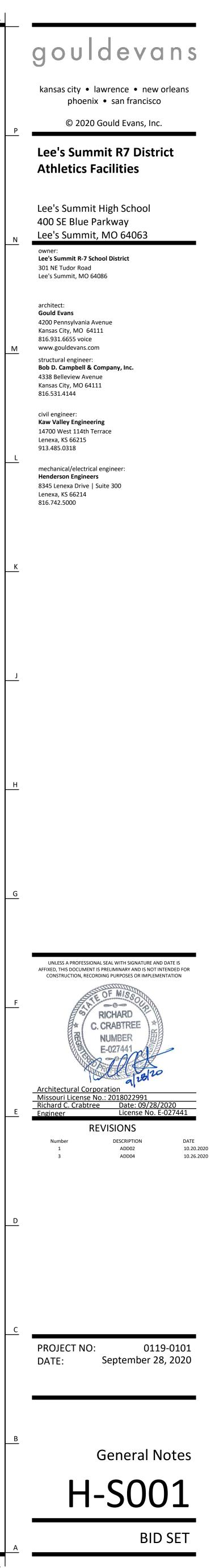
- workmanship provisions of the building code. inspections.
  - AISC 341 Chapter J (as referenced by AISC 360) requirements of SDI QA/QC.
  - 5. Concrete Construction per Section 1705.3 and Table 1705.3 a. Reinforcing Steel Placement
    - c. Cast in Place Anchors d. Post Installed Anchors
    - f. Concrete Sampling and Testing
  - Masonry Construction per Section 1705.4 and the quality assurance requirements

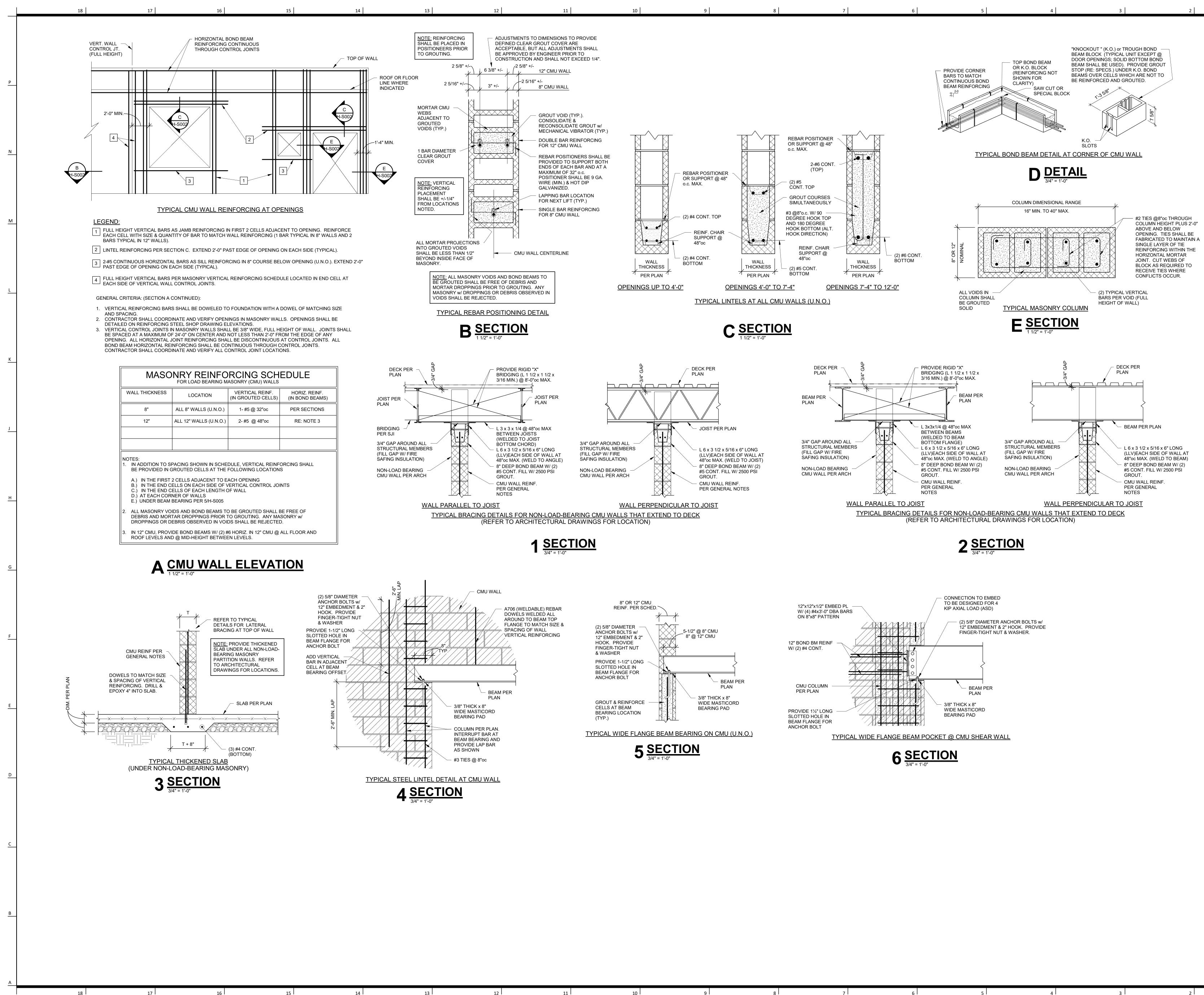
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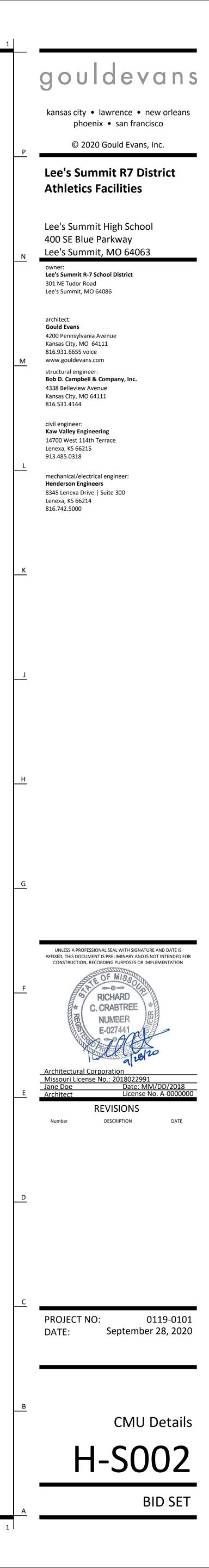
COMPONENTS & CLADDING ROOF UPLIFT PRESSURES							
BUILDING LOCATION		DIMENSION	ULTIMATE UPLIFT PRESSURE				
	BUILDING / ROOF TYPE	'a'	ZONE 1	ZONE 2	ZONE 3		
		[ft]	[psf]	[psf]	[psf]		
Press Box Roof	Open Building, Monosloped Roof	4 ft	53.0	81.0	105.0		
Other Structures	Enclosed Building, Flat Roof	3 ft	37.0	57.0	78.0		
NOTES:         1.       REFER TO GENERAL NOTE 2.D. FOR WIND LOAD DESIGN CRITERIA         2.       WIND PRESSURES SHOWN ARE ULTIMATE (LRFD). FOR ASD WIND PRESSURES, MULTIPLY VALUES BY 0.6         3.       WIND PRESSURES SHOWN ARE BASE ON AN EFFECTIVE WIND AREA OF 50 SQUARE FEET							

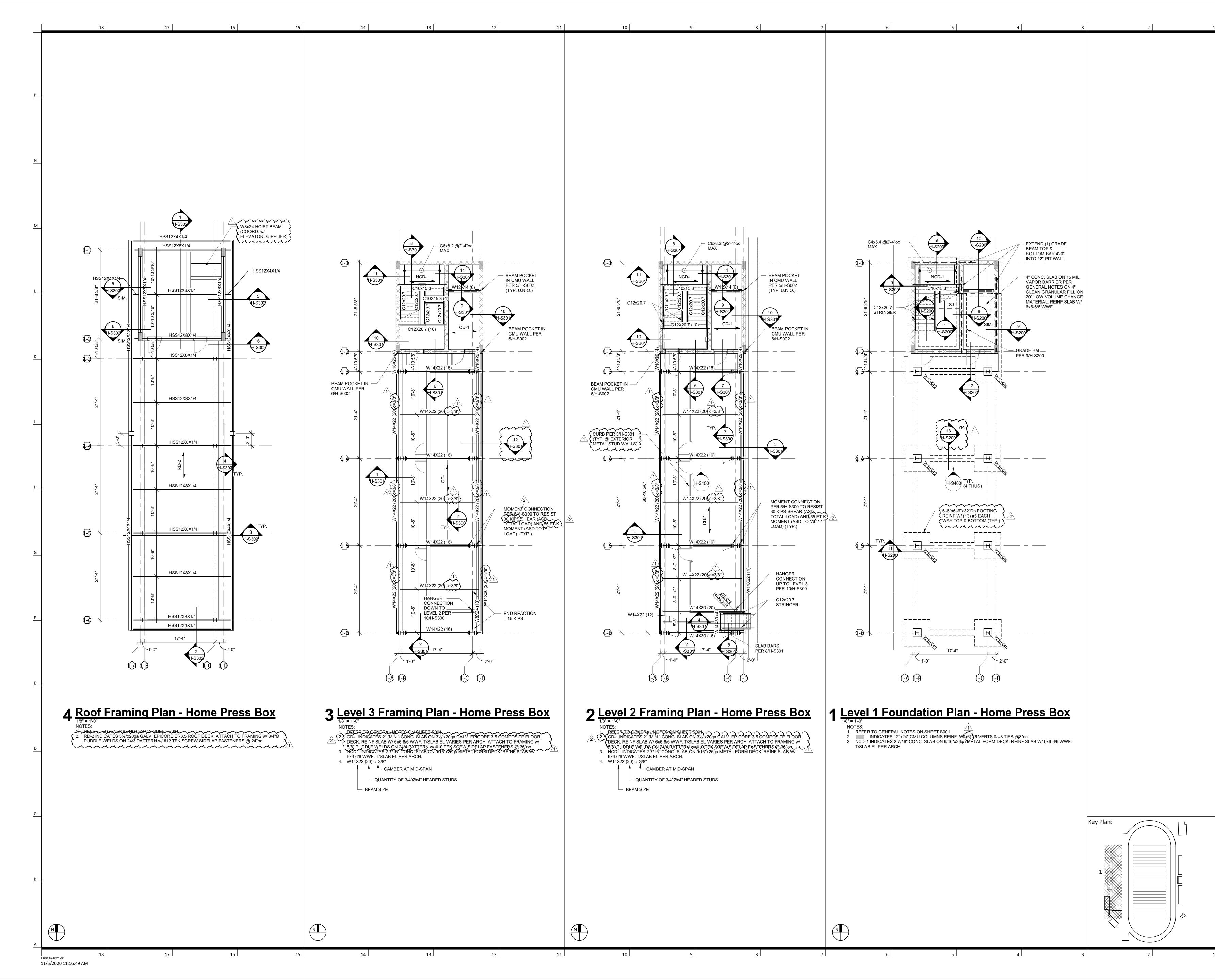


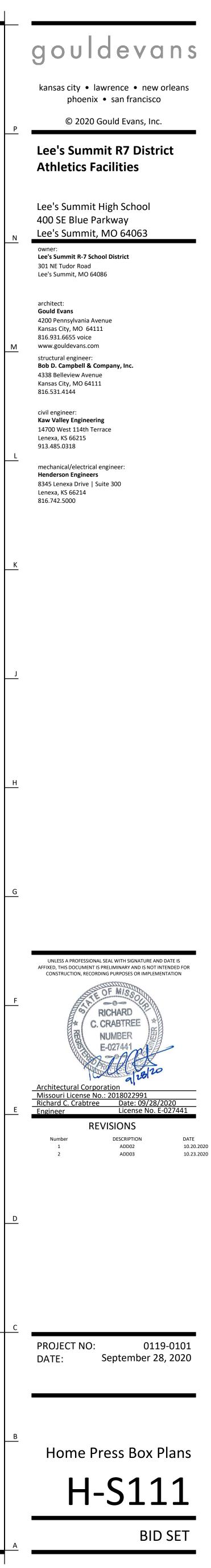
"H"	"A"	"B"	"C"	"D"	"E"	
0'-0" TO 3'-0"	1'-0"	1'-4"	8"	2'-8"	4'-8"	
3'-1" TO 6'-0"	1'-0"	1'-8"	8"	4'-0"	6'-4"	
						1
REINFORCE	MENT	1	1			_
"H"	"M"	"L"	"N"	"F"	"G"	"K"
0'-0" TO 3'-0"	#4@12"oc	#4@16"oc	-	-	#4@12"oc	#4@12
3'-1" TO 6'-0"	#6@10"oc	#4@16"oc	-	-	#5@10"oc	#4@12
$\sim$		$\widehat{}$		$\overline{}$	$\sim$	$\sim$
4 T\/I			<b>T</b> A I N I			
1 <u>  1</u>	PICA		<u>I AIN</u>	ING	WAL	
1/2" = 1'						
NOTES:						
1. REF	ER TO CIVIL I	DRAWINGS	FOR WALL I	OCATIONS	AND ELEVA	TIONS
mm	m	m	m	m	m	$\mathcal{M}$

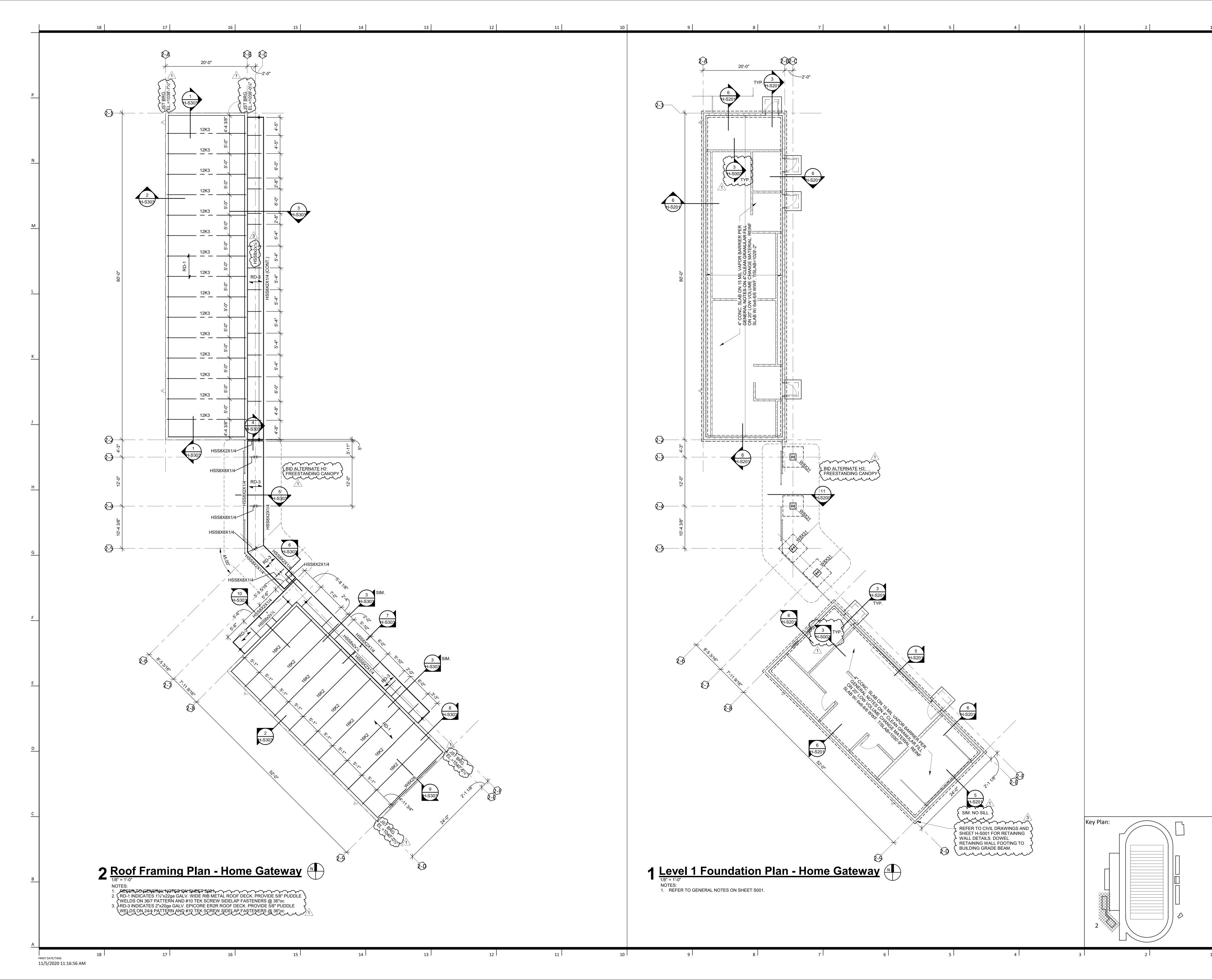


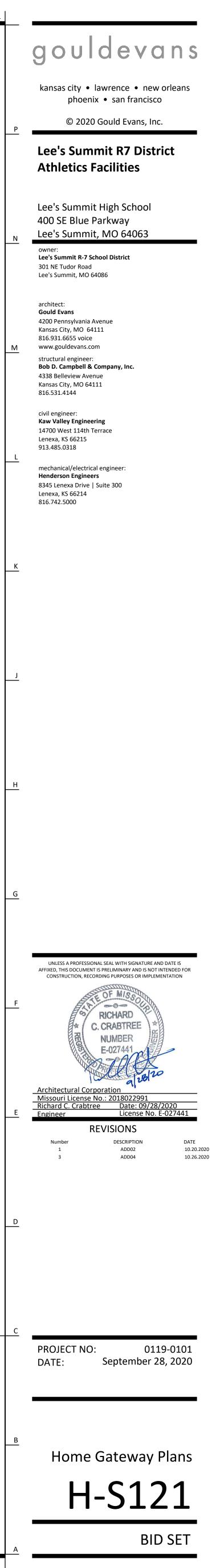


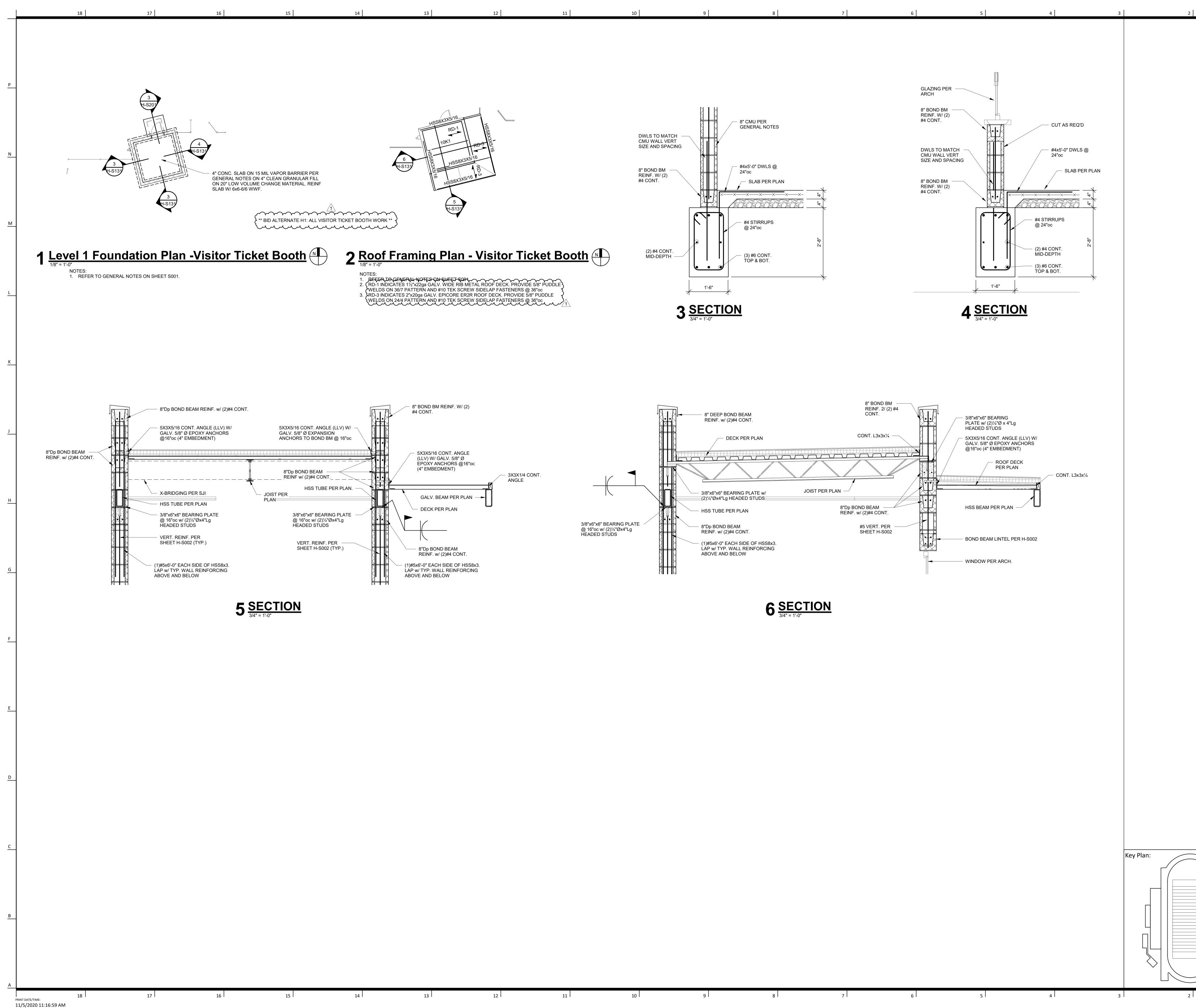




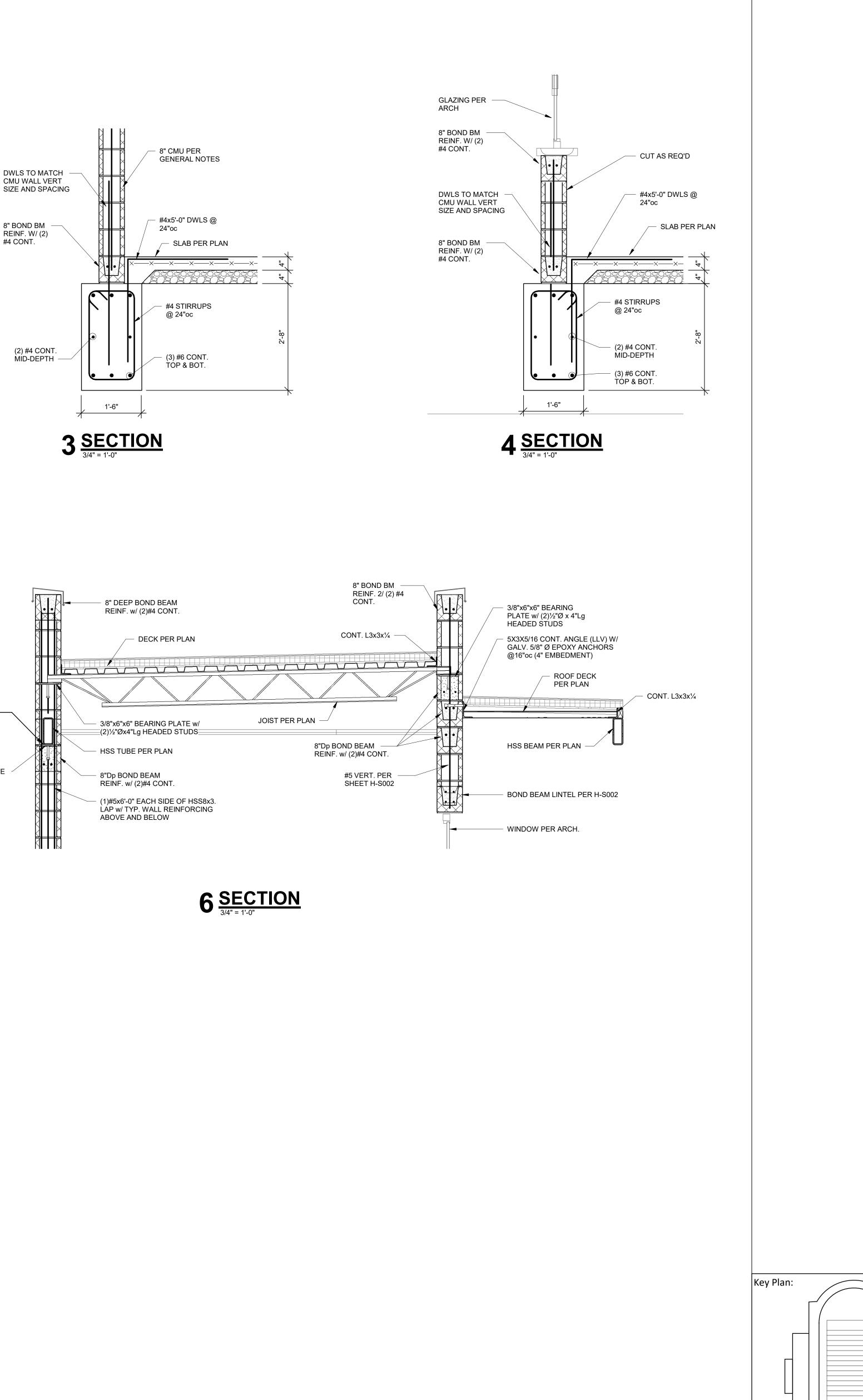


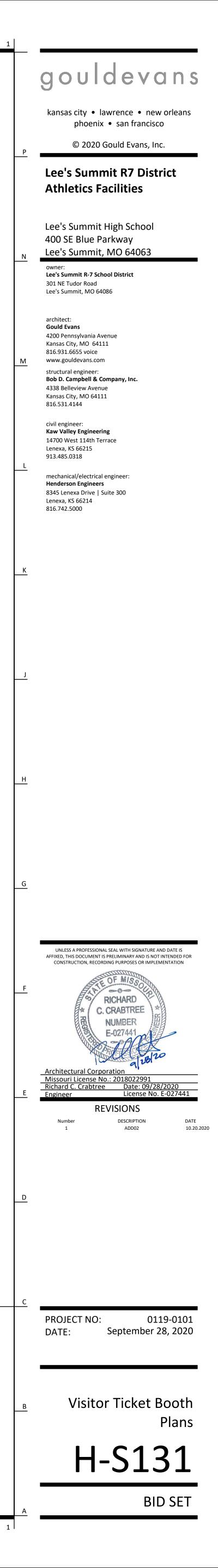


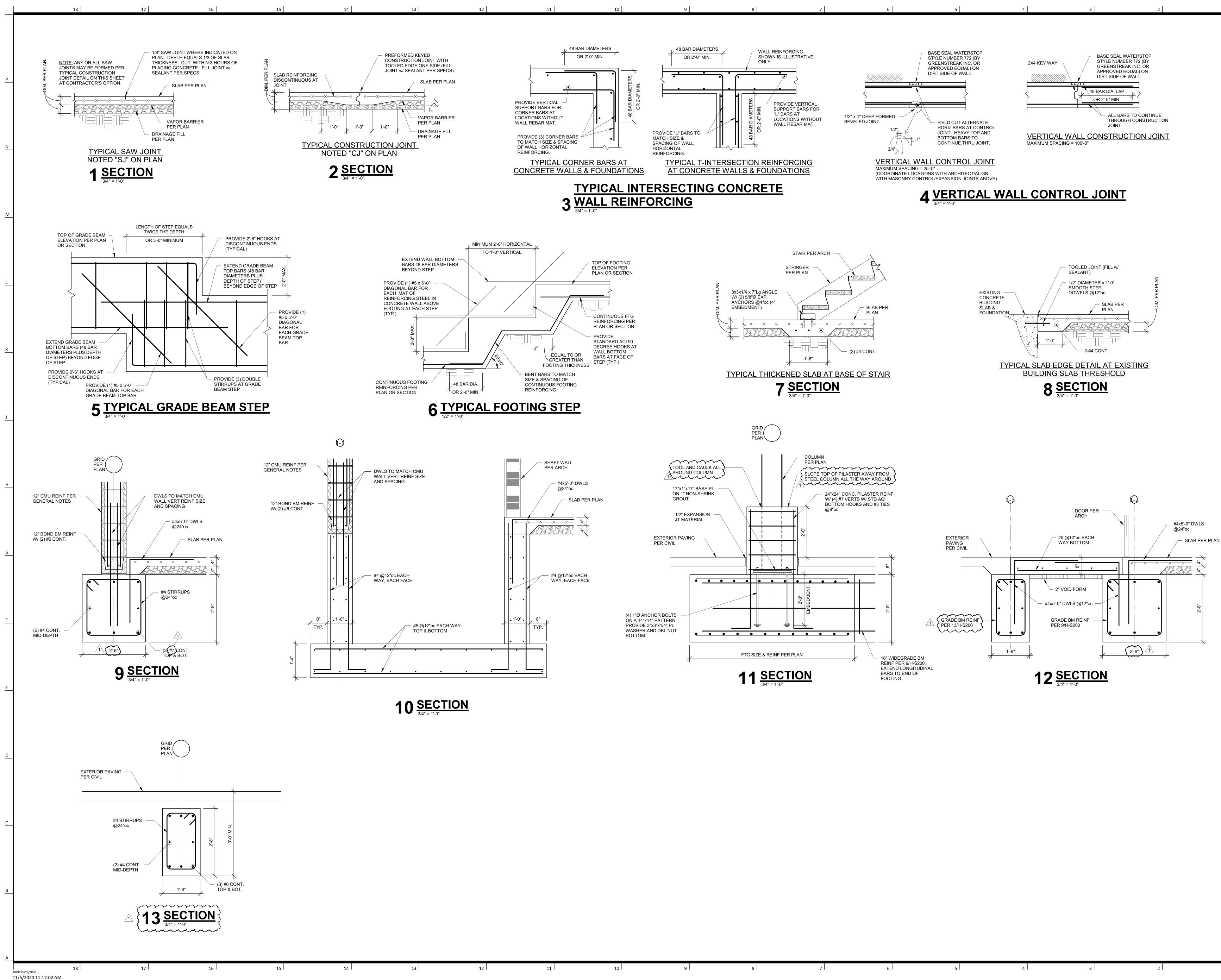


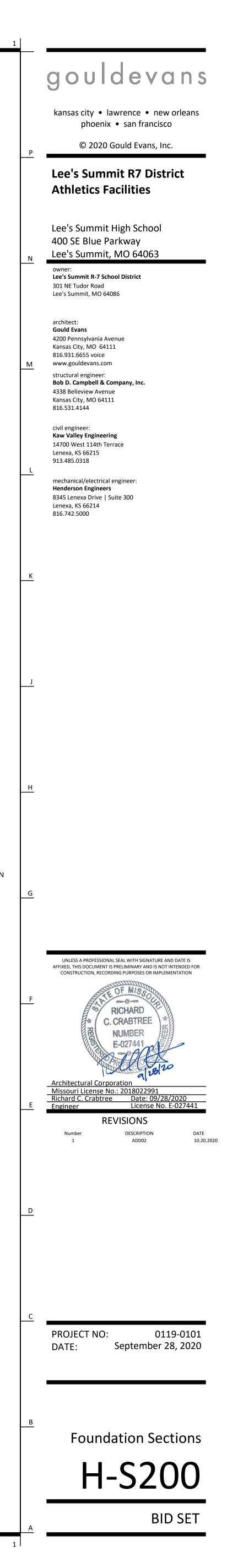


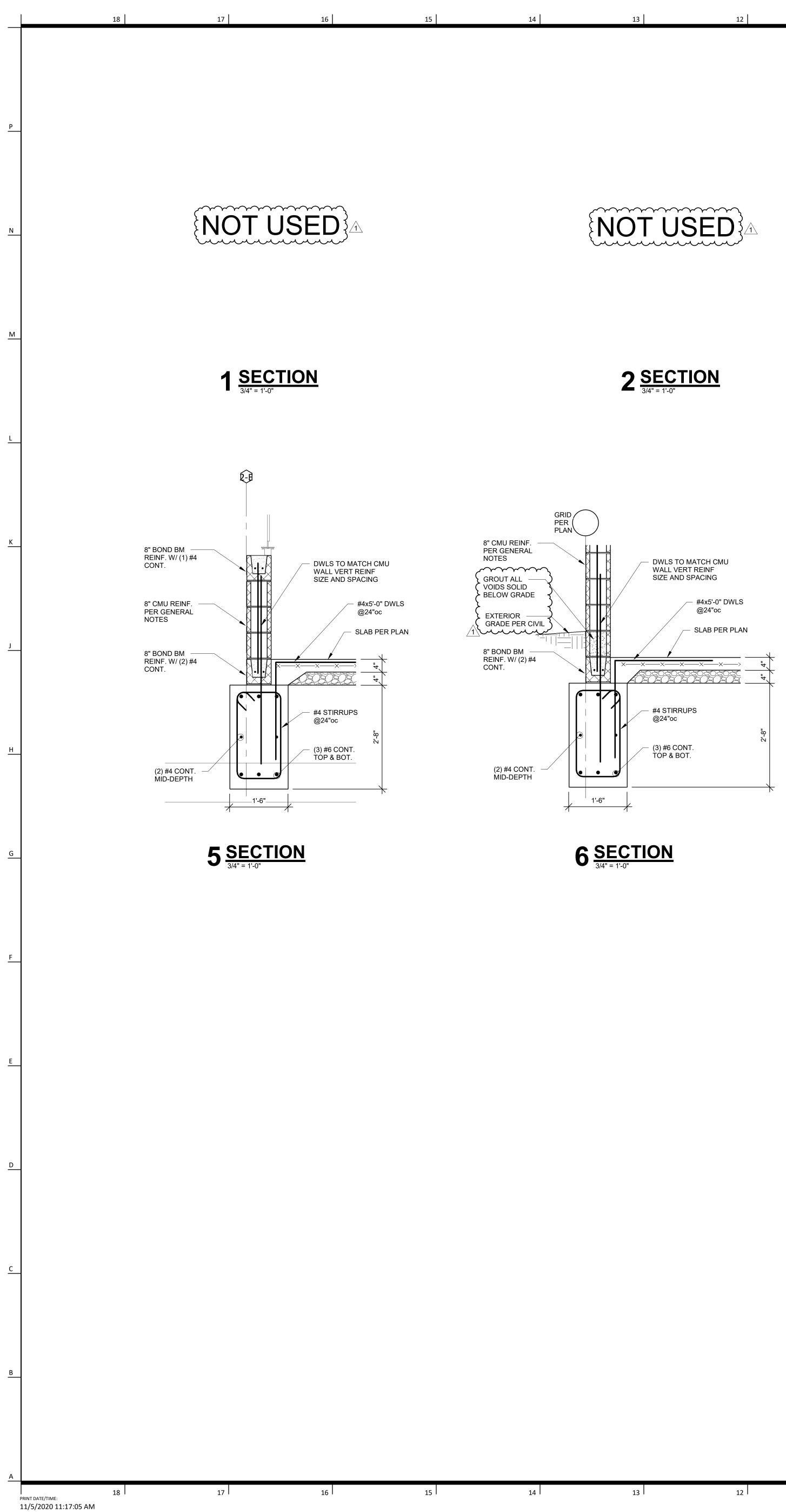




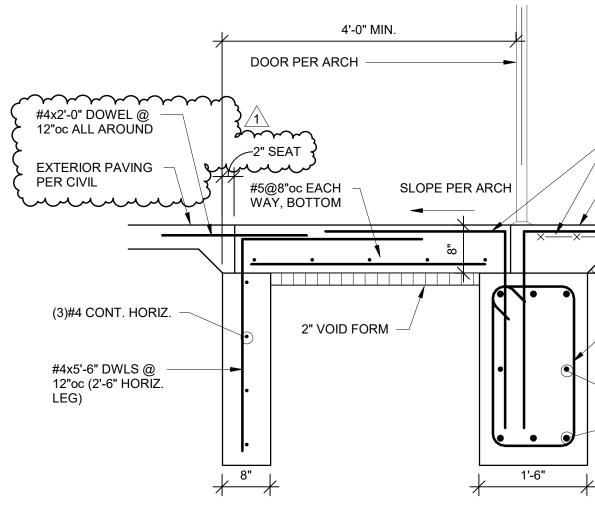








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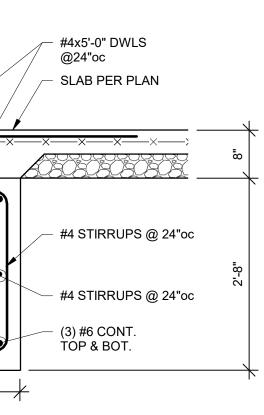
# 3 <u>SECTION</u> 3/4" = 1'-0"

8





2



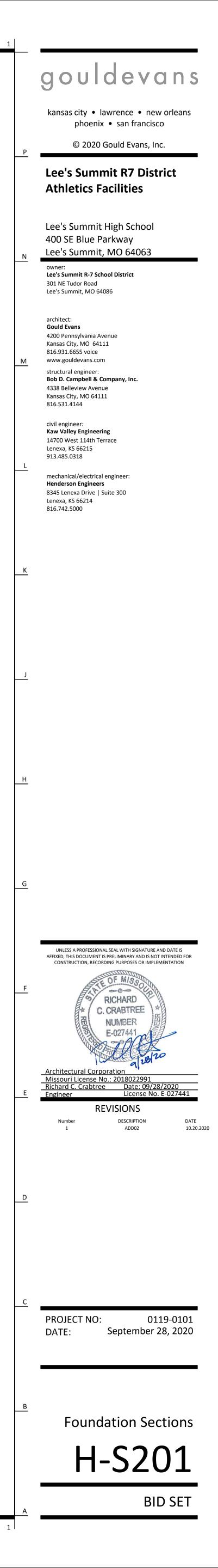
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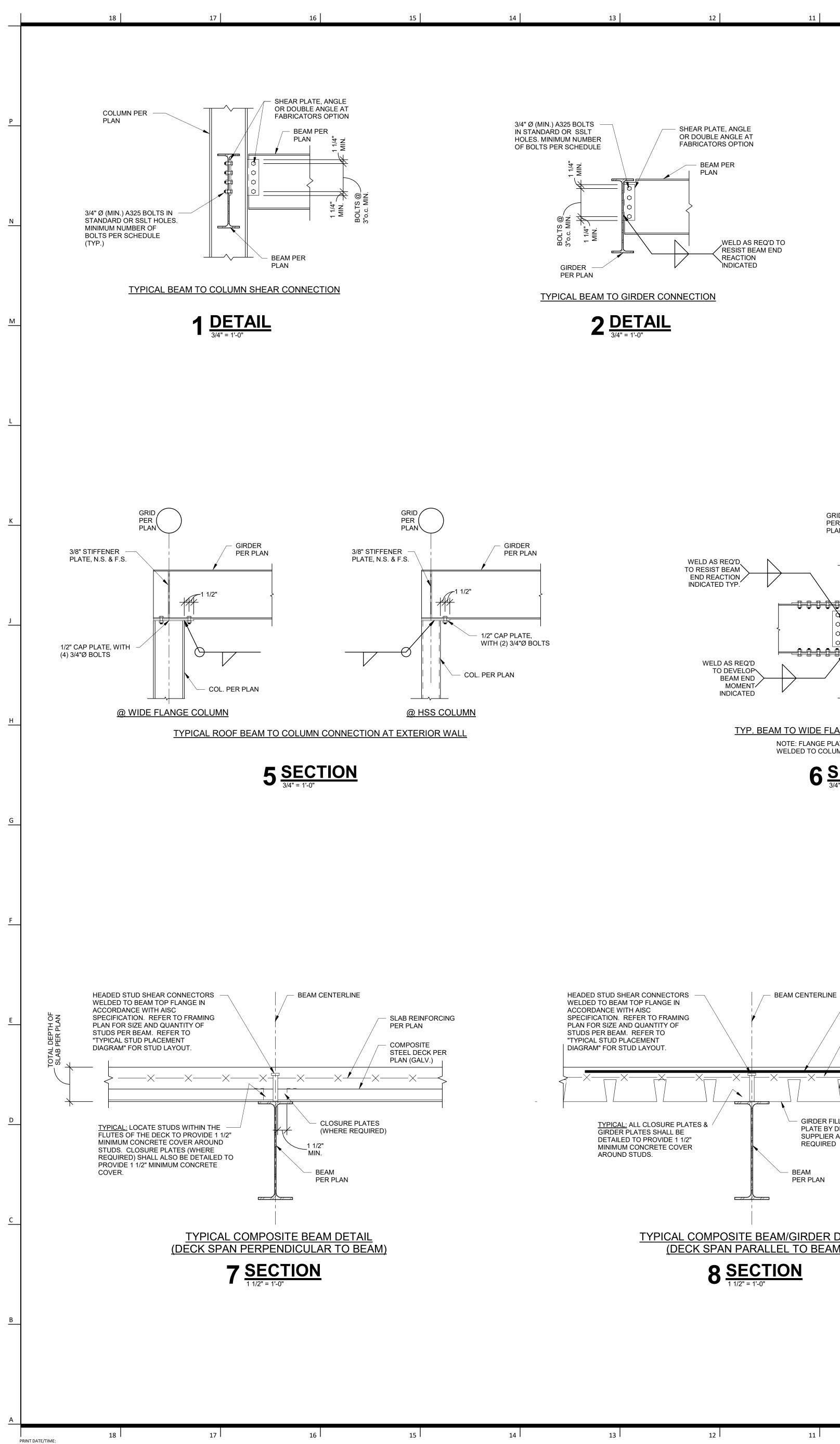
# 4 <u>SECTION</u> 3/4" = 1'-0"

7 |

4 I

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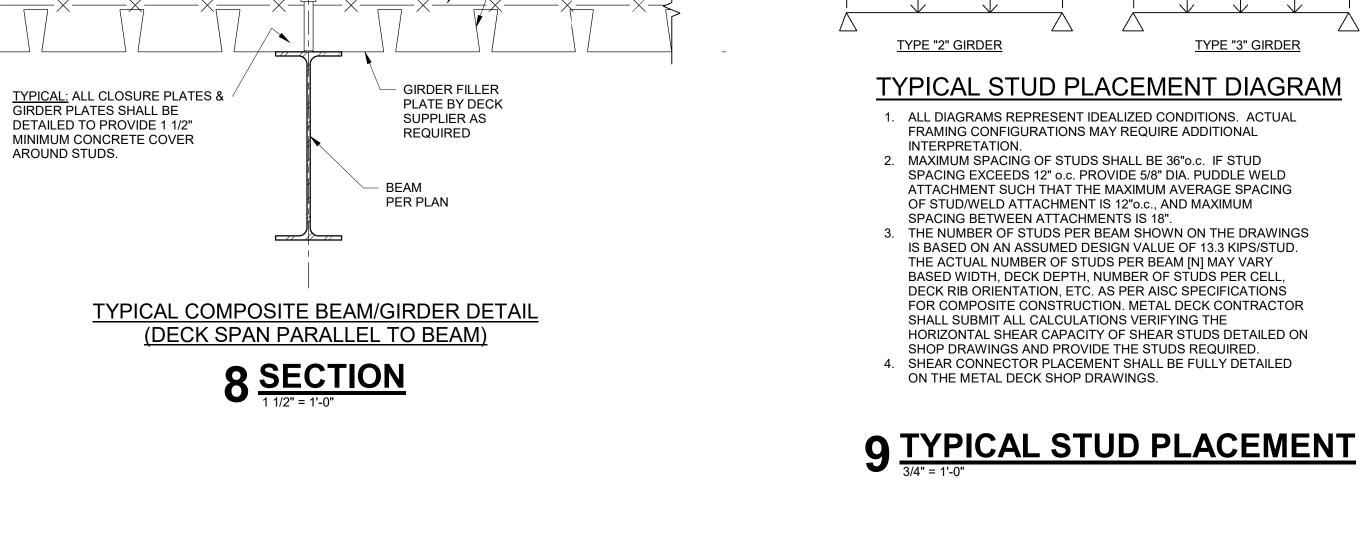




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8 |



TYPICAL AT GIRDERS:

CENTERED OVER THE

SLAB REINFORCING

STEEL DECK PER

GIRDER

PER PLAN

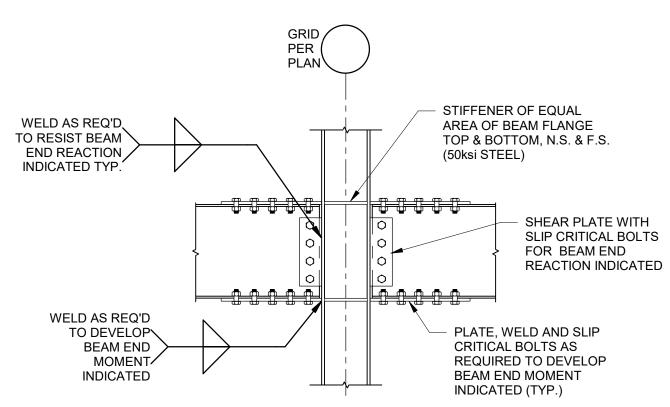
COMPOSITE

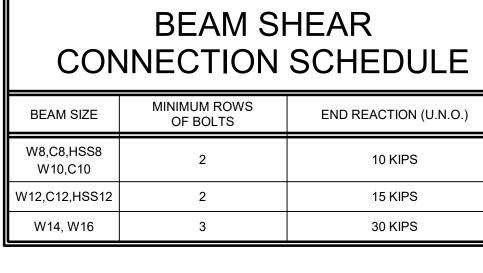
PLAN (GALV.)

#4x6'-0" TOP BARS @12"oc,

# 6 <u>SECTION</u>







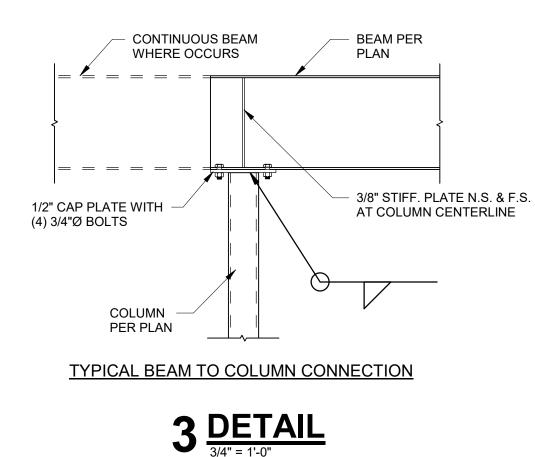
UNIFORM SPACING

TYPICAL BEAM

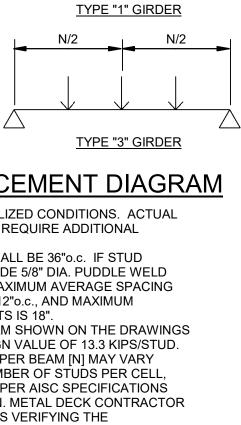
NOTE 2

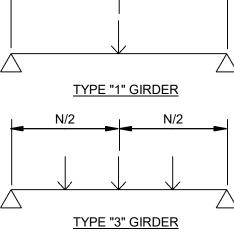
MIN. N/2

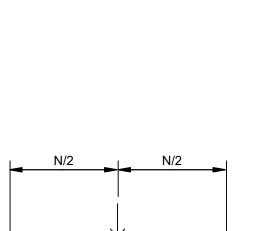
N/2



6







HSS8 C10	2	10 KIPS
HSS12	2	15 KIPS
W16	3	30 KIPS

**BEAM SHEAR** 

END REACTION (U.N.O.)

MINIMUM ROWS

OF BOLTS

	SPECIFICATIONS AN
4.	SUGGESTED CONN
	CONNECTION CONF
	BY THE CONNECTION
	INCLUDE COLUMN

SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE AND THE STRUCTURAL GENERAL NOTES. NECTION DETAILS ARE SHOWN. FINAL FION ENGINEER. CONNECTION DESIGN SHALL N OR BEAM CONTINUITY PLATES, WEB STIFFENERS, AND/OR DOUBLER PLATES AS REQUIRED FOR THE FORCES INDICATED.

FABRICATOR MAY OPT TO USE OTHER AISC APPROVED

7. ALL BOLTS SHALL BE 3/4" Ø ASTM A325 MINIMUM.

8. ALL BOLTS SHALL BE SPACED AT 3"o.c. MINIMUM.

9. ALL BOLTS SHALL HAVE HEAVY HEX NUTS.

ACCOMODATE COMBINED FORCES.

10. ALL BOLTS SHALL BE FULLY PRE-TENSIONED.

STEEL CONSTRUCTION.

LOAD REQUIREMENTS.

SCHEDULE.

OF WALL OR FINISH.

BEAM PER

\_\_\_\_\_

3/4" CAP PLATE

W/ (4) 3/4"Ø SLIP-

CRITICAL BOLTS

3/4" BASE PLATE

W/ (4) 3/4"Ø SLIP-

CRITICAL BOLTS

PLAN

3. FABRICATOR SHALL BE RESPONSIBLE FOR THE ENGINEERING, DESIGNING, AND DETAILING OF EACH CONNECTION FOR LOADS NFIGURATION AND DESIGN SHALL BE COMPLETED

CONNECTIONS IN LIEU OF THESE SHOWN HEREIN TO MEET END

DETAILS SHOWN IN THE LATEST EDITION OF THE AISC MANUAL OF

REACTION REQUIREMENTS (i.e. DOUBLE ANGLE CONNECTION).

6. CONNECTION DETAILING SHALL COMPLY WITH THE STANDARD

11. BOLT SPACING AND EDGE DISTANCES SHALL BE ADJUSTED PER

AISC MANUAL FOR BOLTS LARGER THAN 3/4" DIAMETER.

13. FOR BEAMS WITH AXIAL LOADS PER DRAWINGS, BOLTS AND

12. CLIP ANGLES MAY BE SHOP WELDED TO BEAM WEB PER AISC.

CONNECTIONS SHALL BE SLIP-CRITICAL PER AISC GUIDELINES.

PLATE CONNECTION W/ AN ADDITIONAL COLUMN OF BOLTS TO

14. PROVIDE ASTM A490 BOLTS IF REQUIRED TO MEET END REACTION

REFER TO PLANS FOR ADDITIONAL BEAM AXIAL FORCES. BRACE

AND BEAM FORCES INDICATED ARE UNFACTORED (ASD) LOADS

15. REFER TO ELEVATIONS ON SHEET H-S400 FOR BRACE FORCES.

AND SHALL BE CONSIDERED CONCURRENT W/ BEAM SHEAR

16. COORDINATE BRACED FRAME CONNECTION W/ ARCHITECTURAL

17. ALL END REACTIONS INDICATED ARE UNFACTORED (ASD) LOADS.

WALLS AS REQUIRED TO AVOID CONFLICT OR EXPOSURE OUTSIDE

- (2) 1/4" FULL HEIGHT

SIDE OF WEB

HANGER COLUMN

- (2) 1/4" FULL HEIGHT

STIFFENERS EACH

FLANGES.

BEAM PER

PLAN

**10** SECTION  $\frac{3}{4''} = 1'-0''$ 

SIDE OF WEB. ALIGN

W/ HANGER COLUMN

3 |

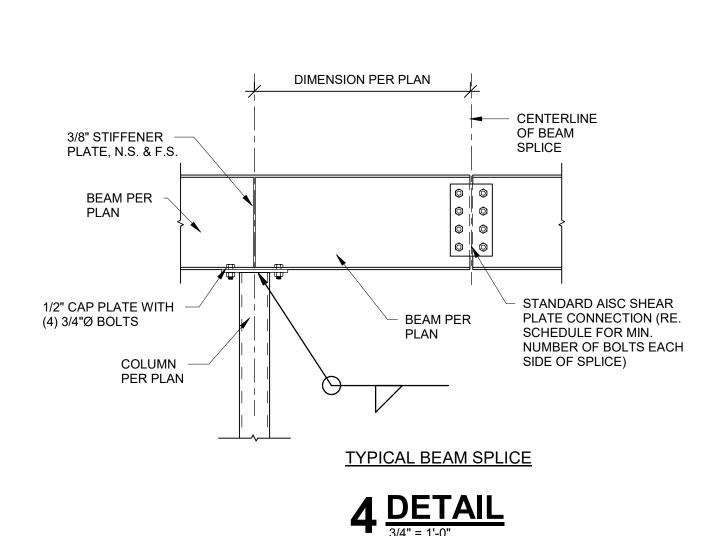
PER PLAN

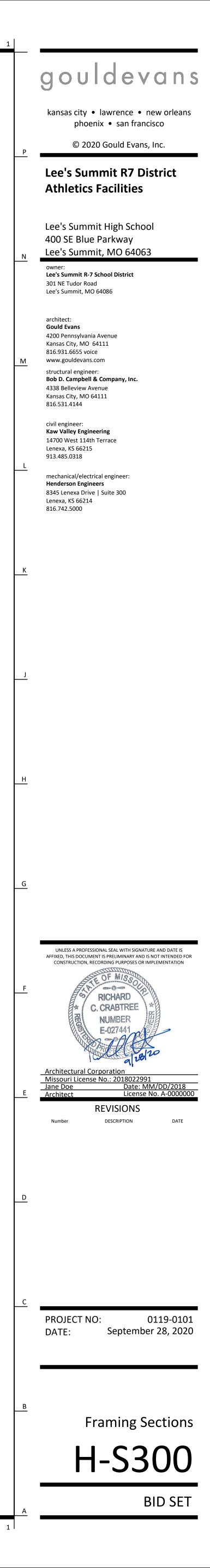
STIFFENERS EACH

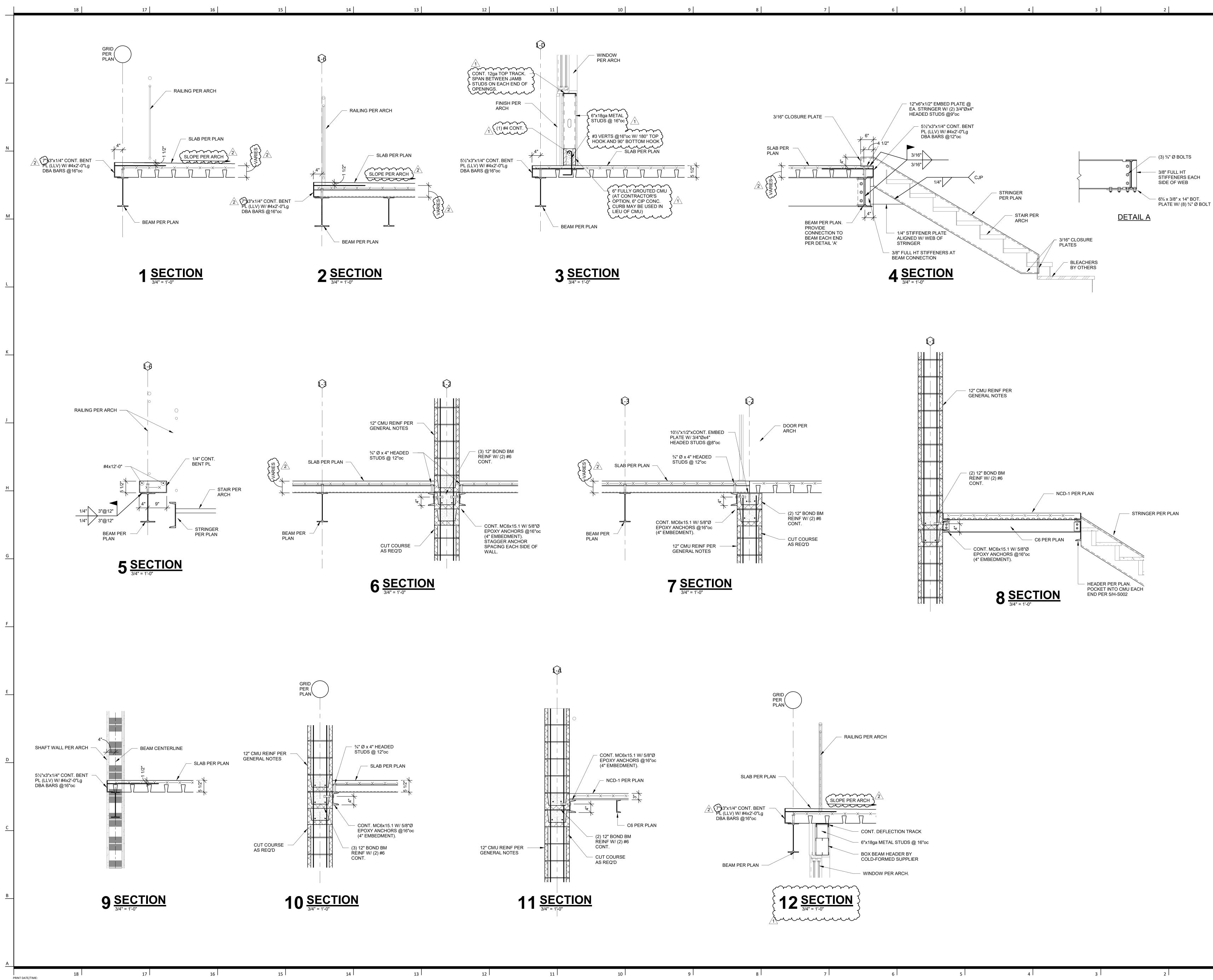
DESIGN FORCES LISTED IN THE BEAM SHEAR CONNECTION

INCREASE NUMBER OF BOLTS AND/OR PROVIDE EXTENDED SHEAR

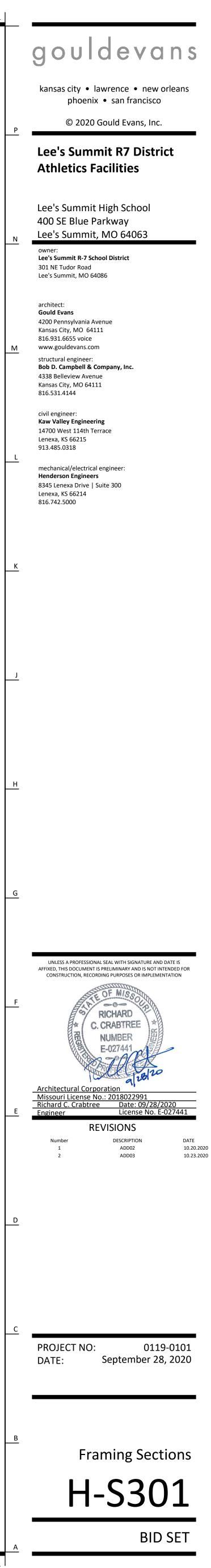
- 1. REFER TO GENERAL NOTES ON SHEET H-S001. 2. CONNECTIONS SHOWN IN THESE DETAILS ARE MINIMUM REQUIREMENTS.
- STEEL CONNECTION NOTES:

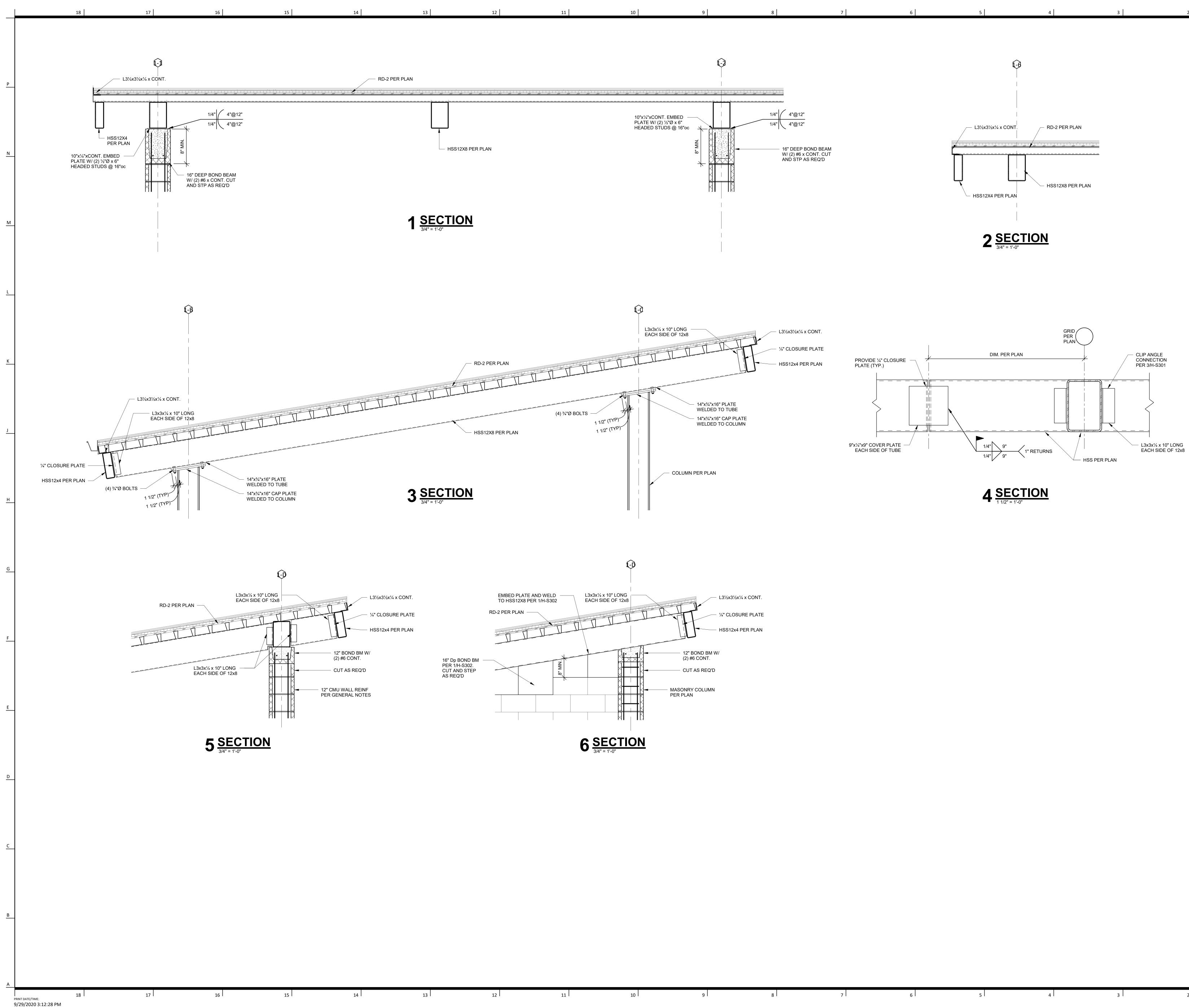


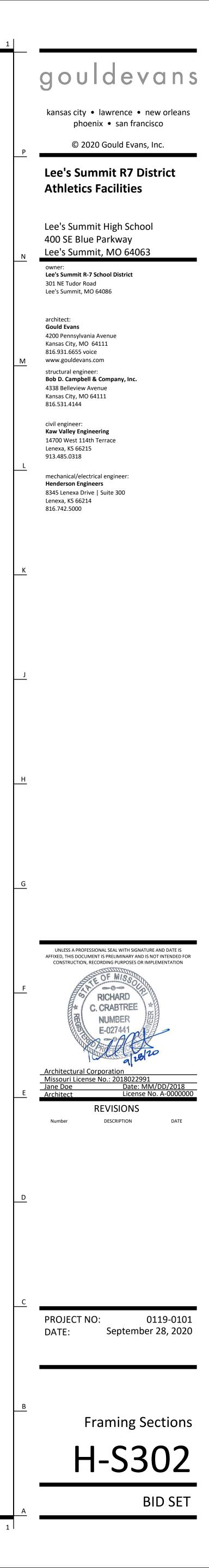


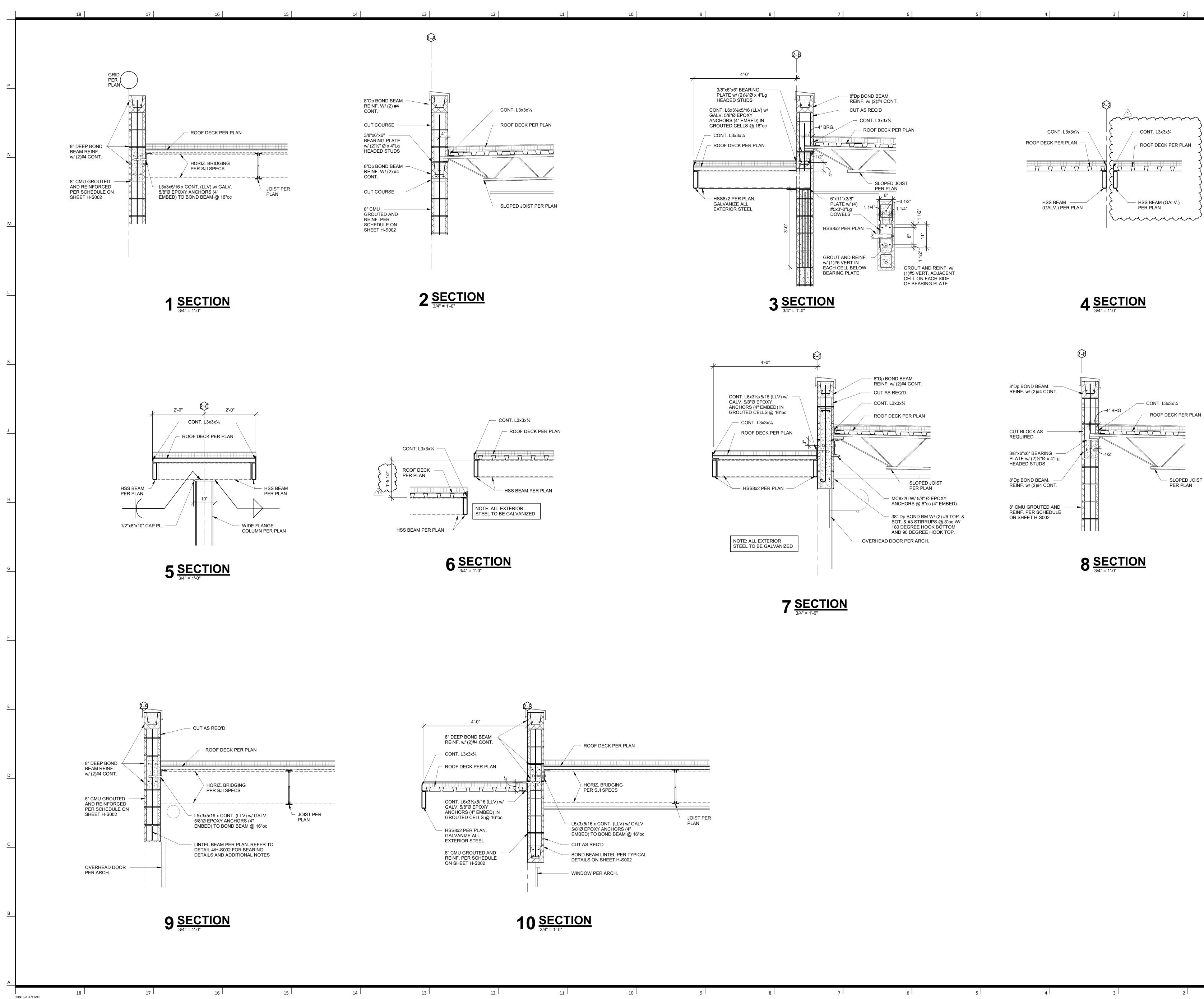


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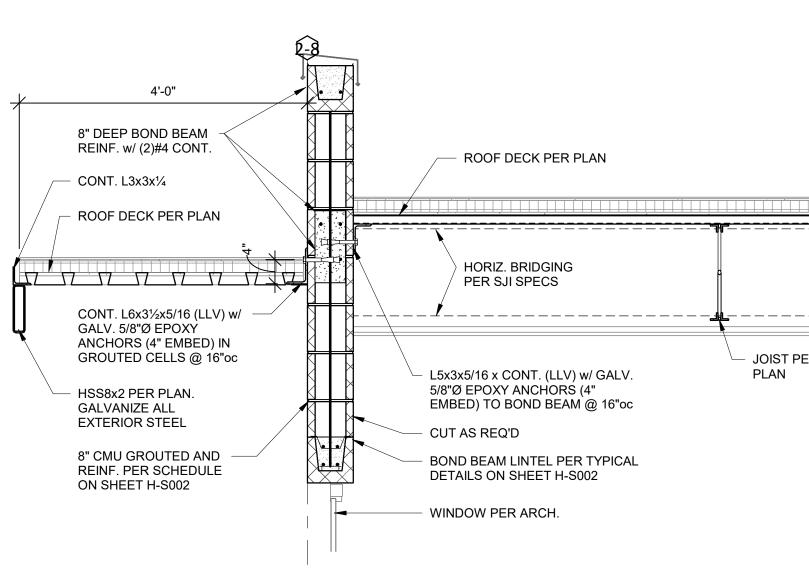


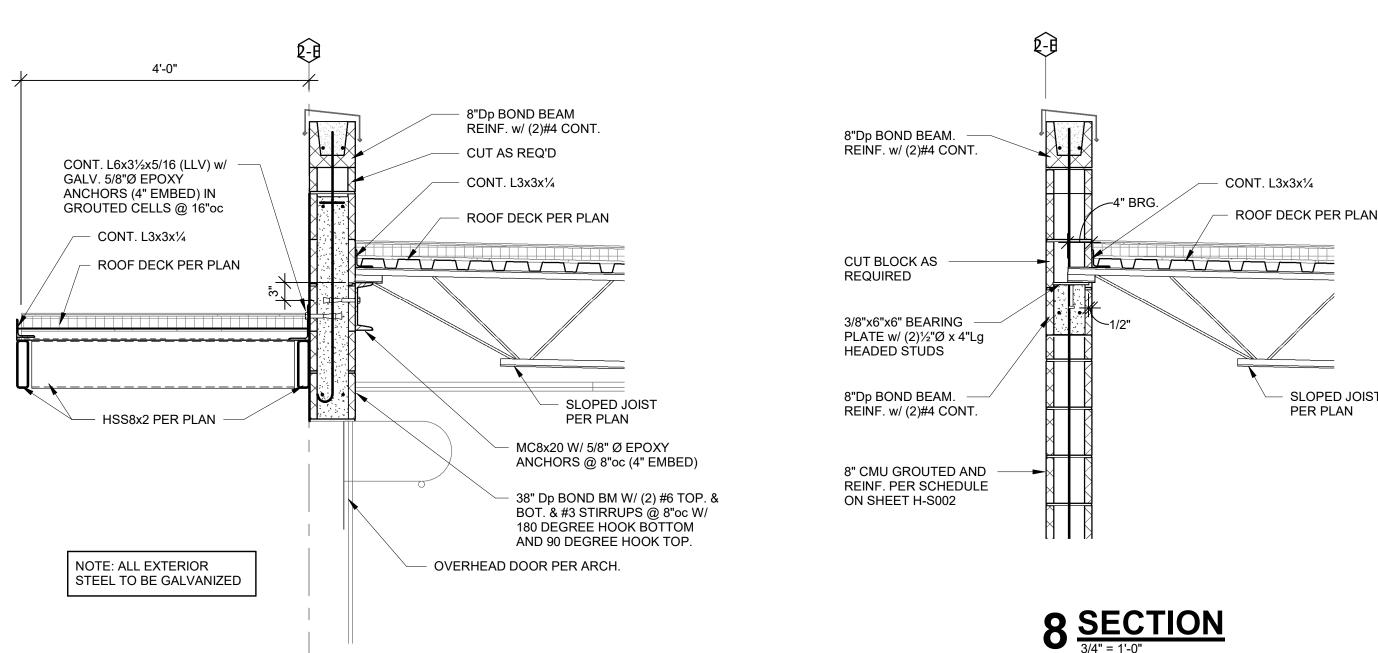


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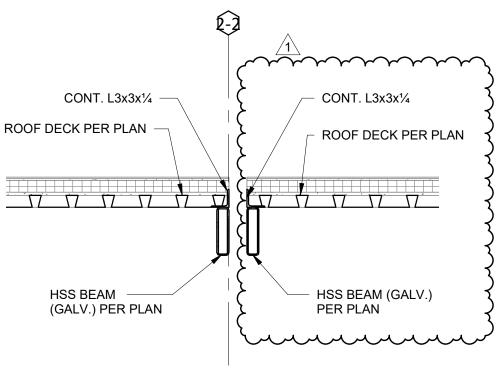
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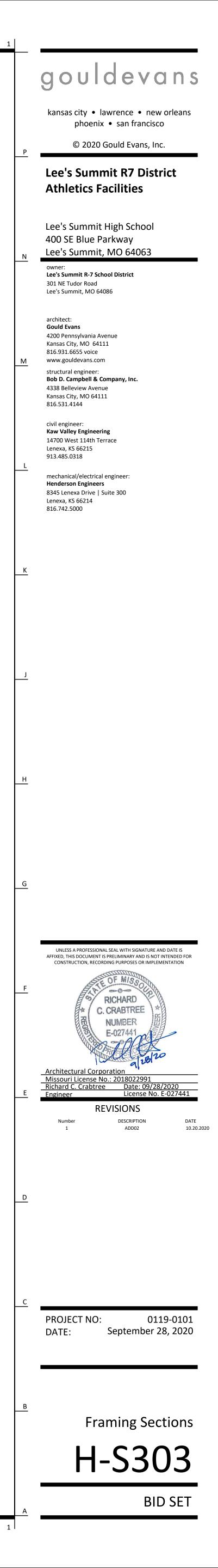


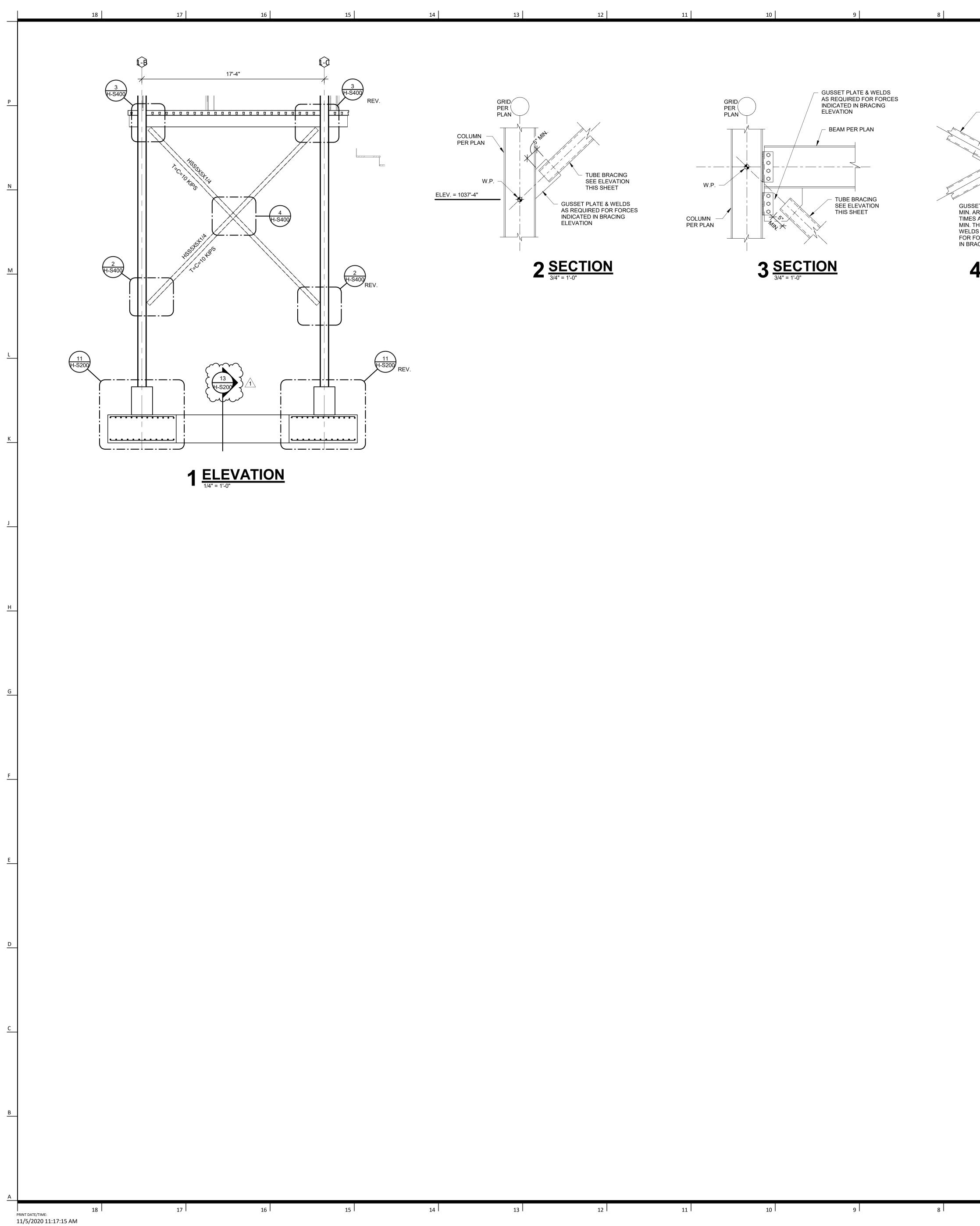




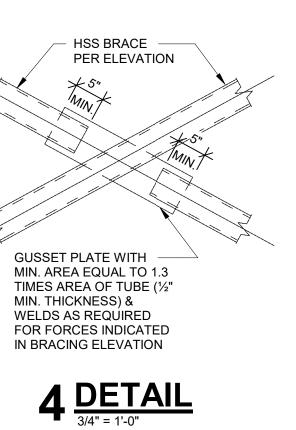




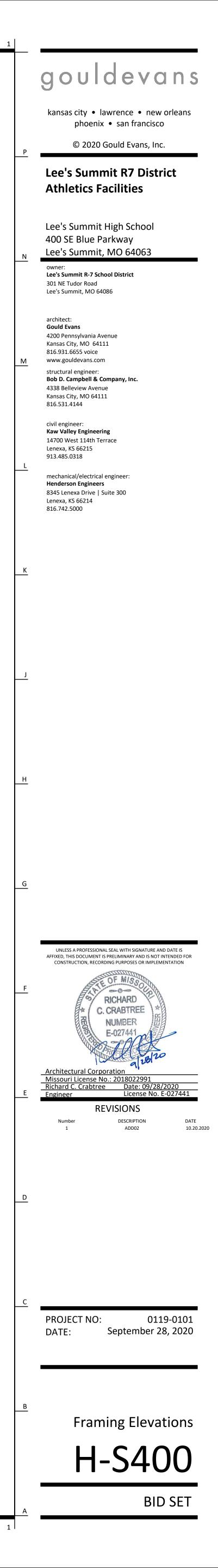


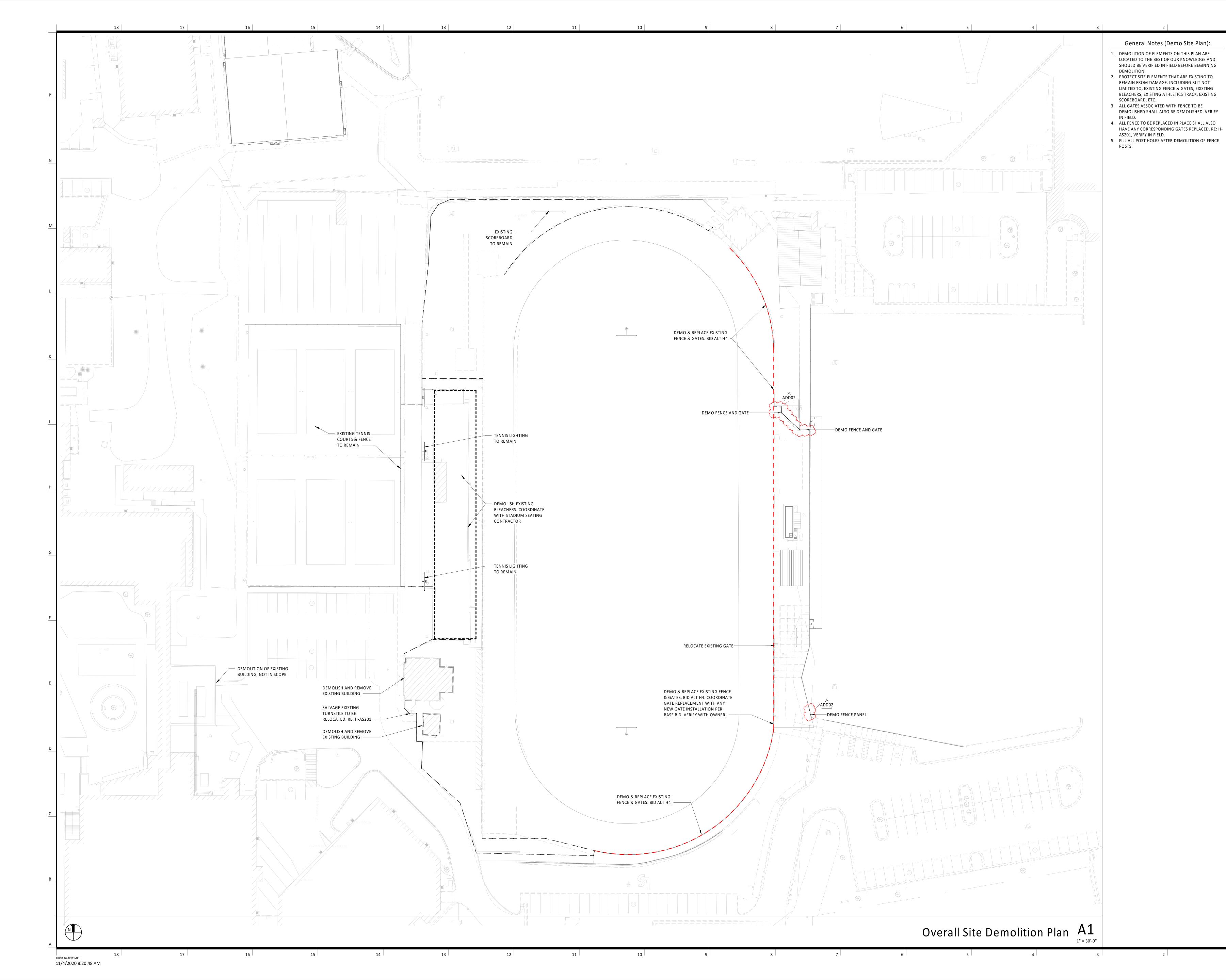


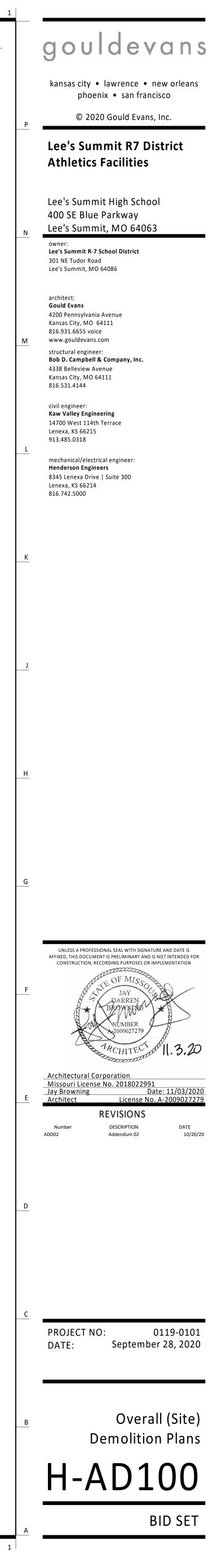
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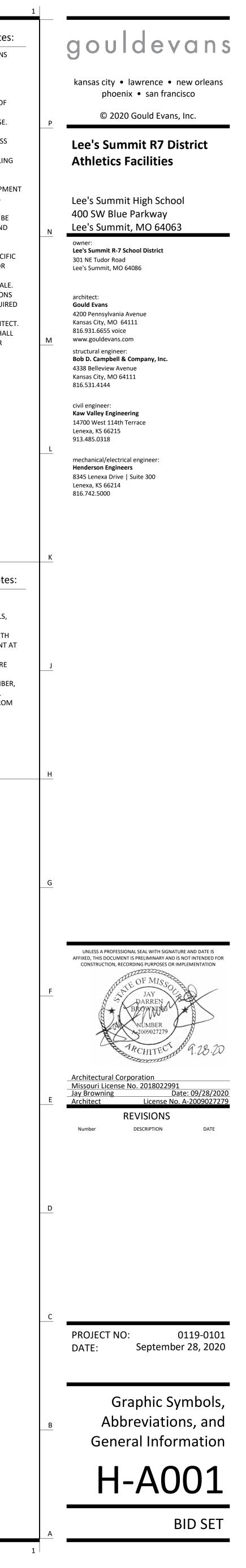
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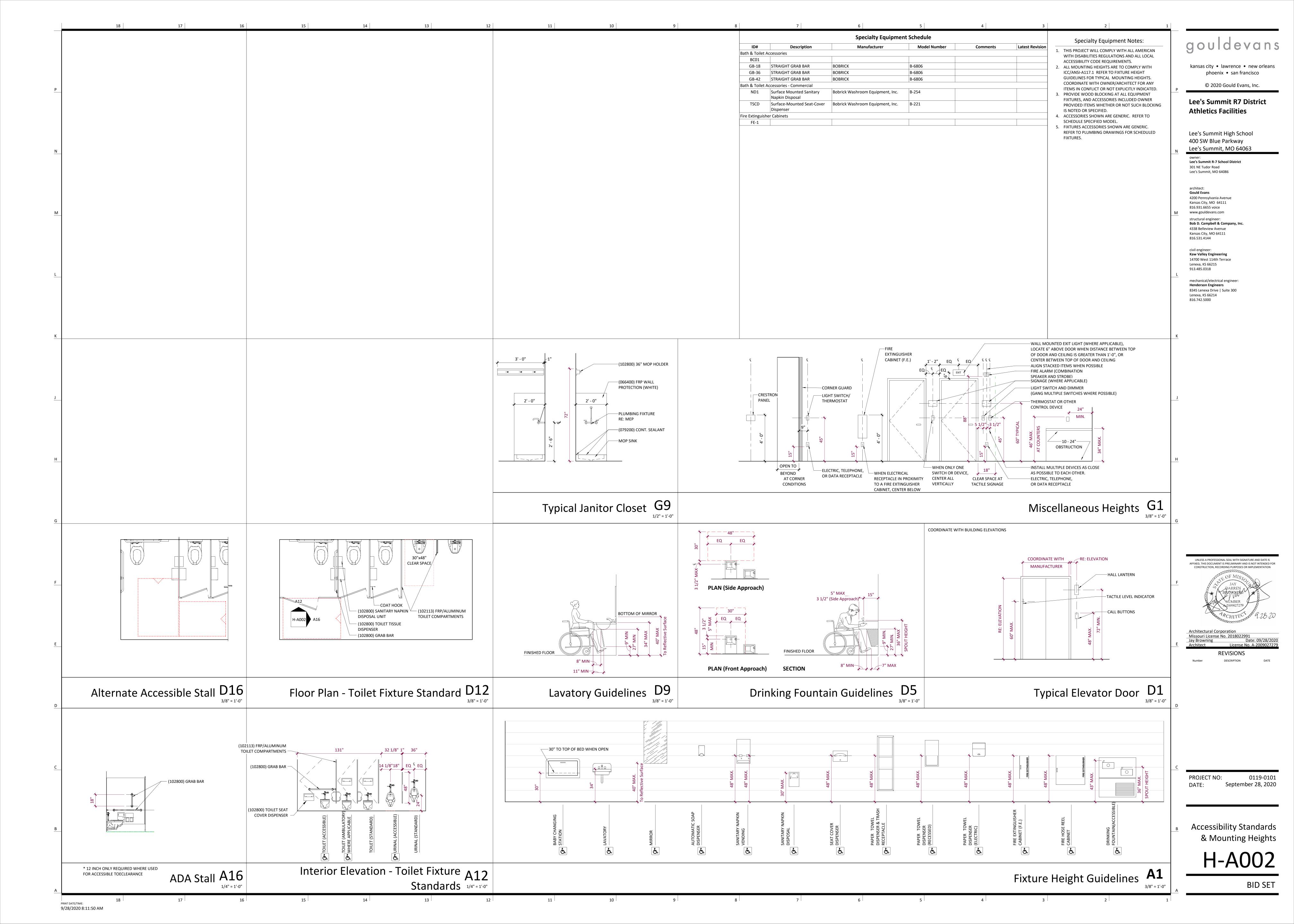


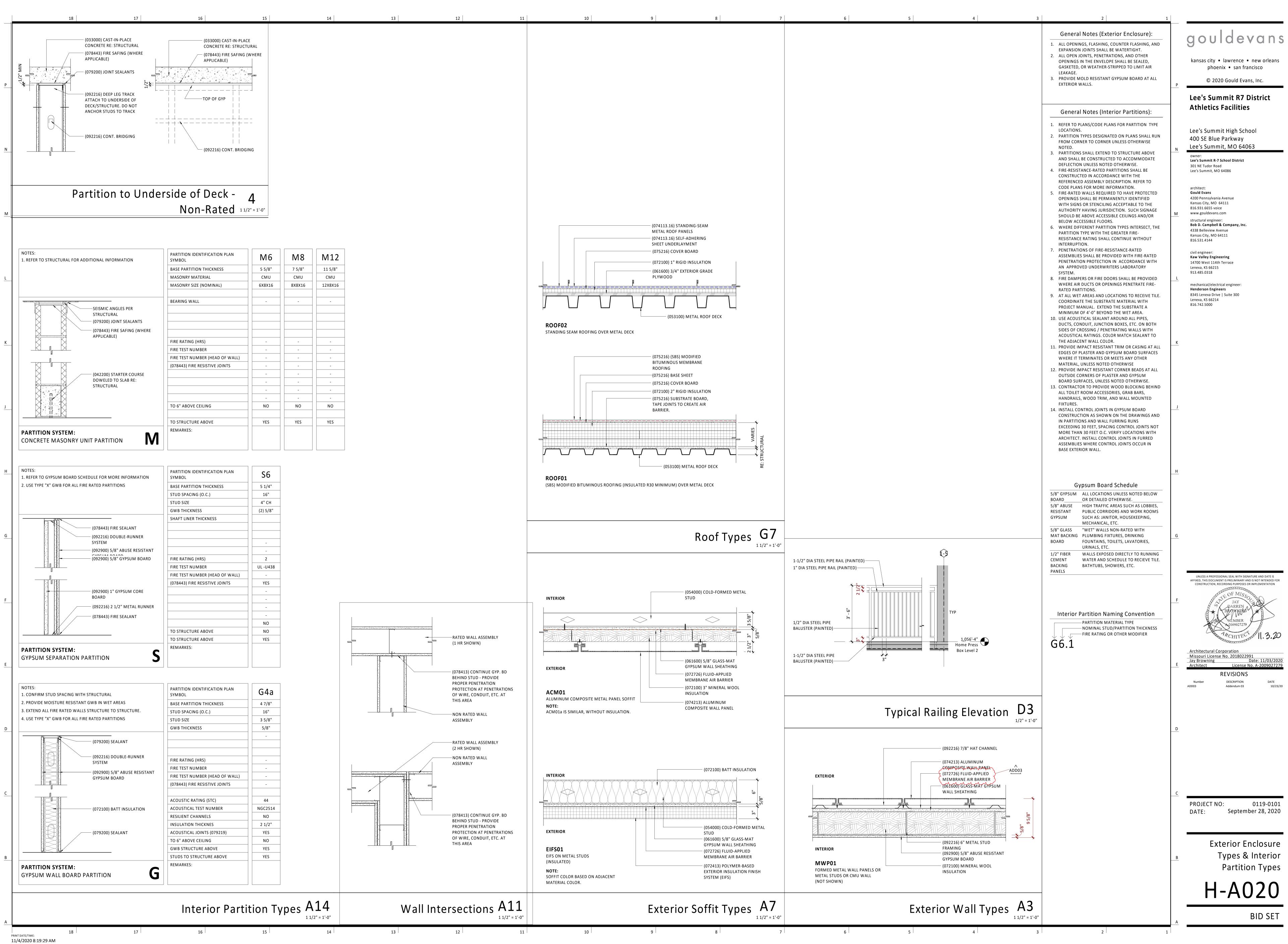


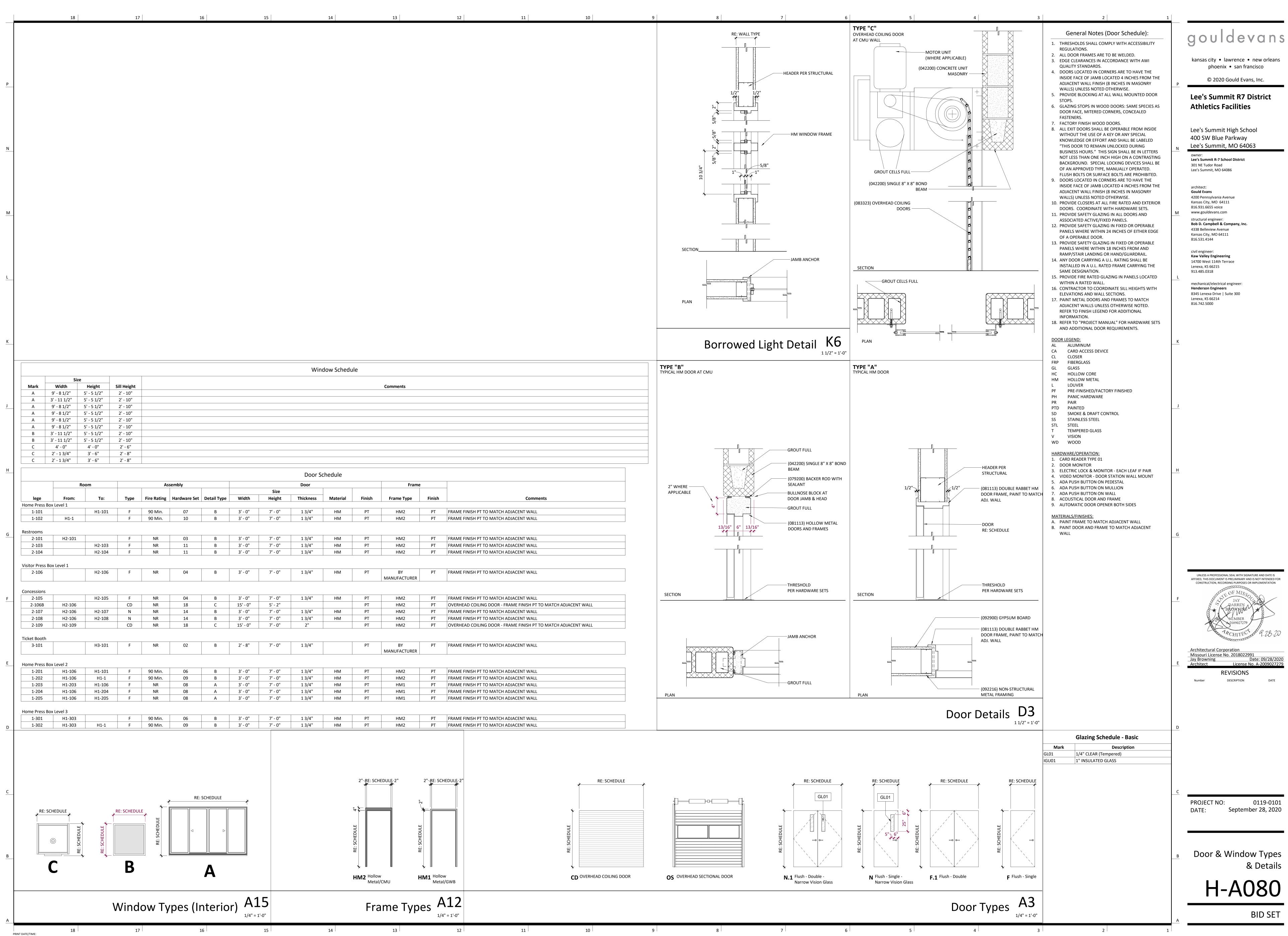


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	Δ	D	Abbreviations	P	Т	Graphic Symbols	Materials Graphics		General Architectural Drawing Notes:
	@ AT A/C AIR CONDITION(ING) (ED)	D DEEP, DEPTH DBL DOUBLE	HB HOSE BIBB HC HANDICAP, HOLLOW CORE	PA PUBLIC ADDRESS PAR PARALLEL	T TREAD T & B TOP AND BOTTOM	01 GENERAL	02 SITE CONSTRUCTION		1. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT
	A/C UNIT AIR CONDITIONING UNIT AB ANCHOR BOLT	DEG DEGREE DEMO DEMOLITION	HCP HANDICAPPED HD HEAVY DUTY	PART PARTIAL PAT PATTERN	T & G TONGUE AND GROOVE TB THROUGH BOLT, TOWEL BAR	NEW WALL	EARTH (existing)		DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH AFFECTED WORK. 2. BUILDING FLOOR PLAN DIMENSIONS ARE
	ABBVR ACC ACCESSIBLE	DEPT DEPARTMENT DET DETAIL	HDW HARDWARE HDWD HARDWOOD	PC PLUMBING CONTRACTOR PERF PERFORATED	TECH TECHNICAL, TECHNOLOGY TEL TELEPHONE	— — — — — — EXISTING WALL TO BE REMOVED	EARTH (backfill) DRAINAGE FILL		REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
<u> </u>	ACCU AIR COOLED CONDENSING UNIT ACI AMERICAN CONCRETE INSTITUTE	DF DRINKING FOUNTAIN DH DOUBLE HUNG DIA or Ø DIAMETER	HM HOLLOW METAL HO HOLD OPEN HORIZ HORIZON	PERIM PERIMETER PL PLATE, PROPERTY LINE PL GL PLATE GLASS	TEMP TEMPORARY, TEMPERATURE TERR TERRAZZO THERM THERMAL	EXISTING WALL	03 CONCRETE		3. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS
	ACOUS ACOUSTICAL INSULATION	DIA OF Ø DIAMETER DIFF DIFFERENCE DIM DIMENSION	HORIZ HORIZON HR HOUR HSS HOLLOW STRUCTURAL SECTION	PLGL PLATE GLASS PLAM PLASTIC LAMINATE PLAS PLASTER, PLASTIC	THERINI THERINAL THK THICKNESS THRU THROUGH	1 SIM BUILDING SECTION	CAST-IN-PLACE CONCRETE		NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING HEIGHT.
	ACOUS PNL ACOUSTICAL PANEL ACST ACOUSTIC	DIR DIRECTION DISP DISPENSER	HT HEIGHT HVAC HEATING, VENTILATING AND	PLBG PLUMBING PLYWD PLYWOOD	TK BD TACK BOARD TMPD TEMPERED		PRECAST CONCRETE		4. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT ARE DIMENSIONED FROM FINISHED SURFACES
	ACT ACOUSTICAL CEILING TILE ADA AMERICANS WITH DISABILITIES	DIST DISTANCE DIV DIVIDE, DIVISION	AIR CONDITIONING HW HOT WATER	PNL PANEL POL POLISHED	TMPD GLTEMPERED GLASSTOCTOP OF CONCRETE	A101 WALL SECTION	04 MASONRY BRICK		UNLESS NOTED OTHERWISE. 5. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE
<u>N</u>	ADDL ADDITIONAL ADDM ADDENDUM	DL DEAD LOAD DMPF DAMPPROOFING	HYD HYDRANT	POLY POLYETHYLENE (PLASTIC) PORC PORCELAIN	TOF TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME TOM TOP OF MASONRY	1 SIM DETAIL SECTION	CONCRETE MASONRY UNITS		CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE INCORPORATING INTO THE WORK.
	ADH ADHESIVE ADJ ADJUSTABLE, ADJACENT	DMPR DAMPER DN DOWN DO DITTO	ID INSIDE DIAMETER IN INCHES	PORT PORTABLE POS POSITIVE PR PAIR	TOPO TOPOGRAPHY TOS TOP OF STEEL	A101	GLASS BLOCK		6. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC COORDINATION BETWEEN DISCIPLINES AND/OR
	AE ARCHITECT/ ENGINEER AFF ABOVE FINISHED FLOOR	DOC DOCUMENT DOZ DOZEN	INCAND INCANDESCENT INCL INCLUDE	PRCST PRECAST PREFAB PREFABRICATED	TPDTOILET PAPER DISPENSERTVTELEVISION	SIM A101	STONE		MANUFACTURERS. 7. DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE. 8. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS
	AGGR AGGREGATE AHJ AUTHORITIY HAVING JURISDICTION	DR DOOR DS DOWNSPOUT	INFO INFORMATION INSUL INSULATION	PREFIN PREFINISHED PRELIM PRELIMINARY	TYP TYPICAL		CAST STONE GROUT		TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT.
M	AHU AIR HANDLING UNIT AISC AMERICAN INSTITUTE OF STEEL	DSGN DESIGN DT DRAIN TILE	INT INTERIOR INTERM INTERMEDIATE	PRKG PARKING PROJ PROJECT	U HEAT TRANSFER COEFFICIENT	A1/A101 EXTERIOR ELEVATION TAG	05 METALS		9. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO SITUATIONS THAT ARE THE SAME OR
	CONSTRUCTION ALT ALTERNATE	DW DISH WASHER DWG DRAWING	J JAN JANITOR	PROPPROPERTYPSFPOUNDS PER SQUARE FOOTPSIPOUNDS PER SQUARE INCH	UC UNDERCUT UGND UNDERGROUND UH UNIT HEATER	1 (Ref)	ALUMINUM		SIMILAR.
	ALUM ALUMINUM ANOD ANNODIZED	E EAST	JAN CLO JANITOR CLOSET JNT JOINT	PT POST TENSIONED PTD PAPER TOWER DISPENSER	UL UNDERWRITERS LABORATORIES UNFIN UNFINISH(ED)		STEEL		
	APCACOUSTICAL PANEL CEILINGARCHARCHITECT(URAL)ASLABOVE STRUCTURAL LEVEL	EA EACH EC ELECTRICAL CONTRACTOR	JR JUNIOR JST JOIST	PTN PARTITION PVC POLYVINYL CHLORIDE (PLASTIC)	UNO UNLESS NOTED OTHERWISE UTIL UTILITY	(Ref) (Ref) INTERIOR ELEVATION TAG	06 WOODS AND PLASTICS		
L	AWT ACOUSTICAL WALL TREATMENT	EF EACH FACE EIFS EXTERIOR INSULATION AND	K KD KNOCK DOWN	PWR POWER	UV UNIT VENTILATOR	(Ref)	CONTINUOUS WOOD INTERMITTENT WOOD		
	B B BD BASE BOARD	FINISH SYSTEM EJ EXPANSION JOINT EL ELEVATION	KD KNOCK DOWN KIP 1000 POUNDS KIT KITCHEN	Q QT QUARRY TILE QTR QUARTER	V VOLT VAR VARIES, VARIATION	BREAK LINE	FINISH WOOD		
	B/B BACK-TO-BACK BAT BATTEN BD BOARD	ELEC ELECTRIC(AL) ELEM ELEMENTARY	KO KNOCK OUT KPL KICK PLATE	QTR QUARTER QTY QUANTITY	VAR VARIES, VARIATION VB VINYL BASE VCT VINYL COMPOSITE TILE	Room name 101 ROOM TAG	HARDBOARD MEDIUM DENSITY FIBER BOARD		
	BD BOARD BDRM BEDROOM BITUM BITUMINOUS	ELEV ELEVATOR ENAM ENAMEL	L	R R RISER, RADIUS, HEAT	VENT VENTILATION VERT VERTICAL	##.# INTERIOR PARTITION TYPE SYMBOL	$\begin{array}{c} & \text{MEDIUM DENSITY FIBER BOARD} \\ & & \text{(MDF)} \\ \hline \\ & & \text{Signature} \\ & & $		
	BLDG BUILDING BLKG BLOCKING	ENCL ENCLOSURE ENGR ENGINEER	L LITER, ANGLE LAB LABORATORY	RESISTANCE RA RETURN AIR	VEST VESTIBULE VIF VERIFY IN FIELD	Type WINDOW TYPE SYMBOL	PLYWOOD		
K	BMBENCHMARK, BEAMBOTBOTTOM	ENVIR ENVIRONMENT EOS EDGE OF SLAB EP ELECTRIC PANEL	LAM LAMINATE(D) LAV LAVATORY LBL LABEL	RADRADIATORRBRUBBER BASE, RESILIENT BASERCROOFING CONTRACTOR	VOC VOLATILE ORGANIC COMPOUND VOL VOLUME	BENCHMARK/SPOT ELEV. SYMBOL	SOLID SURFACE MATERIAL		Conoral Materials & Fauinment Nates
	BRG BEARING BRZ BRONZE	EPDM ETHYLENE PROPYLENE DIENE MONOMER	LBS POUND LD LOAD	RCP REFLECTED CEILING PLAN RD ROOF DRAIN	VR VAPOR RETARDER VUH VERTICAL UNIT HEATER	XX COLUMN LINE/GRID INDICATOR	07 THERMAL & MOISTURE PROTECTION		General Materials & Equipment Notes: <ol> <li>PROVIDE GALVANIC PROTECTION BETWEEN</li> </ol>
	BSMT BASEMENT BTWN BETWEEN BUR BUILT-UP ROOFING	EPS EXPANDED POLYSTYRENE BOARD	LF LINEAR FEET LH LATENT HEAT, LEFT HAND	REC RECESSED REC RM RECREATION ROOM	VWC VERTICAL WALL COVERING	REVISION INDICATOR	BATT INSULATION  LOOSE FILL INSULATION		DISSIMILAR METALS. 2. INSTALL PIPING AND CONDUIT TIGHT TO WALLS, COLUMNS AND ROOF DECK.
	BW BOTH WAYS	EQ EQUAL EQUIP EQUIPMENT EQUIV EQUIVALENT	LIB LIBRARY LIN LINEAR	REF REFRIGERATOR REG REGISTER, REGULATION	W W WATT, WEST W/ WITH	101A     DOOR TAG       ELEVATION     FLOOR LEVEL SYMBOL			<ol> <li>SEAL ALL PIPE OR CONDUIT PENETRATIONS WITH APPROPRIATE SEALANT. PROVIDE FIRE SEALANT AT RATED PARTITIONS.</li> </ol>
J	C CAB CABINET	ETC ET CETERA ETR EXISTING TO REMAIN	LKR LOCKER LKR RM LOCKER ROOM LL LIVE LOAD	REINF REINFORCE REQD REQUIRED RESIL RESILIENT	W/O WITHOUT W/W WALL TO WALL	1t     CEILING HEIGHT SYMBOL	08 GLAZING		<ol> <li>PLYWOOD AND WOOD BLOCKING SHALL BE FIRE RESISTANT.</li> </ol>
	CB CARRIAGE BOLT, CATCH BASIN CCTV CLOSED-CIRCUIT TELEVISION	EW EACH WAY EWC ELECTRIC WATER COOLER	LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL	REV REVISION RFG ROOFING	WBWOOD BASEWCWALL COVERING, WATER	1'-0"A.F.F. PLAN NORTH NORTH ARROWS	GLASS		<ol> <li>DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER, OTHER THAN DESCRIBED ON THE STRUCTURAL DRAWINGS, WITHOUT WRITTEN APPROVAL FROM</li> </ol>
	CD CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS CEM CEMENT	EWH ELECTRIC WATER HEATER EXC EXCAVATE	LT LINOLEUM TILE, LIGHT LTG LIGHTING	RFI REQUEST FOR INFORMATION RFP REQUEST FOR PROPOSAL	CLOSET WD WOOD		09 FINISHES		THE STRUCTURAL ENGINEER.
	CERT CERTIFY, CERTIFICATE, CERTIFICATION	EXH EXHAUST EXIST EXISTING EXP EXPAND, EXPANSION	M	RHRIGHT HAND, ROOF HATCHRMROOMROROUGH OPENING	WDW WINDOW WF WIDE FLANGE WH WATER HEATER, WALL HUNG		LATH AND PLASTER GYPSUM BOARD		
н	CF/CI CONRACTOR FURNISHED/ CONTRACTOR INSTALLED CF/OI CONTRACTOR FURNISHED/	EXT EXTERIOR	MACH MATCHLINE MACH RM MACHINE ROOM MAHOG MAHOGANY	ROROUGH OPENINGROWRIGHT OF WAYRTFRUBBER TILE FLOOR	WI WROUGHT IRON WM WIRE MESH	1 1/2" DIMENSION			
	CF/OI CONTRACTOR FURNISHED/ OWNER INSTALLED CG CORNER GUARD	F F/F FACE-TO-FACE	MAINT MAINTENANCE MATL MATERIAL	RTU ROOF TOP UNIT RV ROOF VENT	WP WATER PROOFING, WEATHERPROOF				
	CH COAT HOOK CHBD CHALK BOARD	FA FIRE ALARM FAAP FIRA ALARM ANNUNCIATOR	MAX MAXIMUM MB or MKR MARKERBOARD	RW RESCUE WINDOW RWB RUBBER WALL BASE	WR WATER REPELENT, WEATHER RESISTANT WSCT WAINSCOT	ALIGN TWO WALLS OR OBJECTS			
	CHEM CHEMICAL CI CAST IRON	PANEL FACP FIRE ALARM CONTROL PANEL FCU FAN COIL UNIT	BD MC MECHANICAL CONTRACTOR	S	WT WEIGHT WWF WELDED WIRE FABRIC				
G	CIP CAST-IN-PLACE CJ CONTROL JOINT, CONSTRUCTION JOINT	FD FLOOR DRAIN FE FIRE EXTINGUISHER	MDFMEDIUM DENSITY FIBERBAORDMDOMEDIUM DENSITY OVERLAYMEMATCH EXISTING	S SOUTH SAB SOUND ATTENUATION BATTS SAN SANITARY	WWM WELDED WIRE MESH				
<u> </u>	CL CENTER LINE CLG CEILING	FEC FIRE EXTINGUISHER CABINET FIN FINISH	MECH MECHANICAL MECH RM MECHANICAL ROOM	SC SOLID CORE, SHADING COEFFICIENT	X X BY				
	CLO CLOSET CLR CLEAR	FIXT FIXTURE FLOUR FLOURESCENT	MFR MANUFACTURER MIN MINIMUM	SCHEDSCHEDULESDSOAP DISPENSER	Y Y YD				
	CLRM CLASSROOM CMU CONCRETE MASONRY UNIT	FLR FLOOR FNDN FOUNDATION FO FINISHED OPENING	MISC MISCELLANEOUS MM MILIMETER	SECT SECTION SF SQUARE FOOT, SAFETY FACTOR					
	CNR CORNER CNTR COUNTER COL COLUMN	FRJSFIRE RESISTIVE JOINT SYSTEMFRPFIBERGLASS REINFORCED	MO MASONRY OPENING MOD BIT MODIFIED BITUMEN MTD MOUNTED	SGTSTRUCTURAL GLAZED TILESHRSHOWERSHTSHEET					
F	CONC CONCRETE CONF CONFERENCE	PLASTIC FRTW FIRE RETARDANT TREATED	MTL METAL, MATERIAL MULL MULLION	SIM SIMILAR SND SANITARY NAPKIN DISPENSER					
	CONN CONNECT(ION) CONSTR CONSTRUCTION	WOOD FT FOOT, FEET FTG FOOTING	Ν	SOGSLAB ON GRADESPCSUSPENDED SPLASTER CEILING					
	CONT CONTINUOUS CONTR CONTRCT(OR) COORD COORDINATE, COORDINATION	FURN FURNITURE FW FIRE WALL	N NORTH NA NOT APPLICABLE	SPEC SPECIFICATION(S) SPKR SPEAKER					
	CORR CORRIDOR CPT CARPET	FWC FABRIC WALL COVERING	NIC NOT IN CONTRACT NO or # NUMBER NOM NOMINAL	SQSQUARESSTSTAINLESS STEELSTCSOUND TRANSMISSION CLASS					
E	CSK COUNTERSINK CSWK CASEWORK	G GA GAGE GAL GALLON	NORM NORMAL NTS NOT TO SCALE	STD STANDARD STOR STORAGE					
	CT CERAMIC TILE CTR CENTER	GALV GALVANIZED GALV STL GALVANIZED STEEL	0	STRM STOREROOM STRUCT STRUCTURAL					
	CTRL CONTROL CU CUBIC CUH CABINET UNIT HEATER	GB GRAB BAR GC GENERAL CONTRACTOR	O/AOVERALLO/OOUT TO OUTOCON CENTER	SUBUBSTITUTESUB FLSUBFLOORSUSPSUSPENDED					
	CUST CUSTODIAL CW COLD WATER, CASEMENT	GEN GENERAL, GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTER	OD OUTSIDE DIAMETER OF/ OI OWNER FURNISHED/ OWNER	SUSP CLGSUSPENDED CEILINGSVSAFETY VALVE, SHEET VINYL					
D	WINDOW	GFRC GLASS FIBER RINFORCED CONCRETE	INSTALLED OF/CI OWNER FURNISEHD/	SWBDSWITCHBOARDSYSQUARE YARD					
		GFRG GLASS FIBER REINFORCED GYPSUM	CONTRACTOR INSTALLED OFF OFFICE OH OVERHANG	SYM SYMBOL SYS SYSTEM					
		GLGLASS, GROUND LEVELGL BLKGLASS BLOCKGLU LAMGLUED LAMINATED BEAM	OH DR OVERHEAD DOOR OPH OPPOSITE HAND						
		GLZ GLAZING GWT GLAZED WALL TILE	OPNG OPENING OPP OPPOSITE						
с		GYM GYMNASIUM GYP GYPSUM	OPT OPTIONAL, OPTIMUM						
-		GYP BD GYPSUM BOARD GYP PLAS GYPSUM PLASTER							
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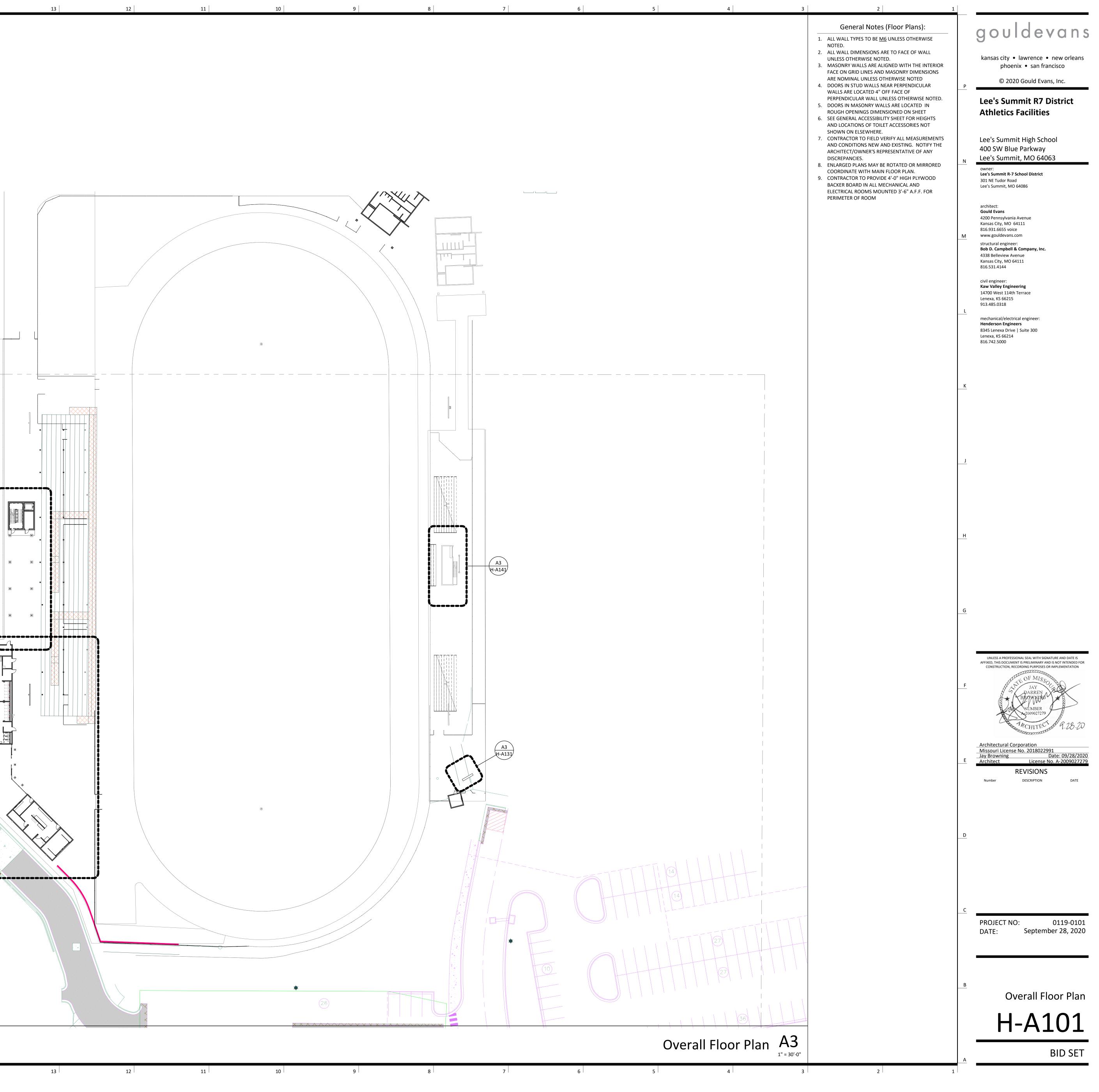


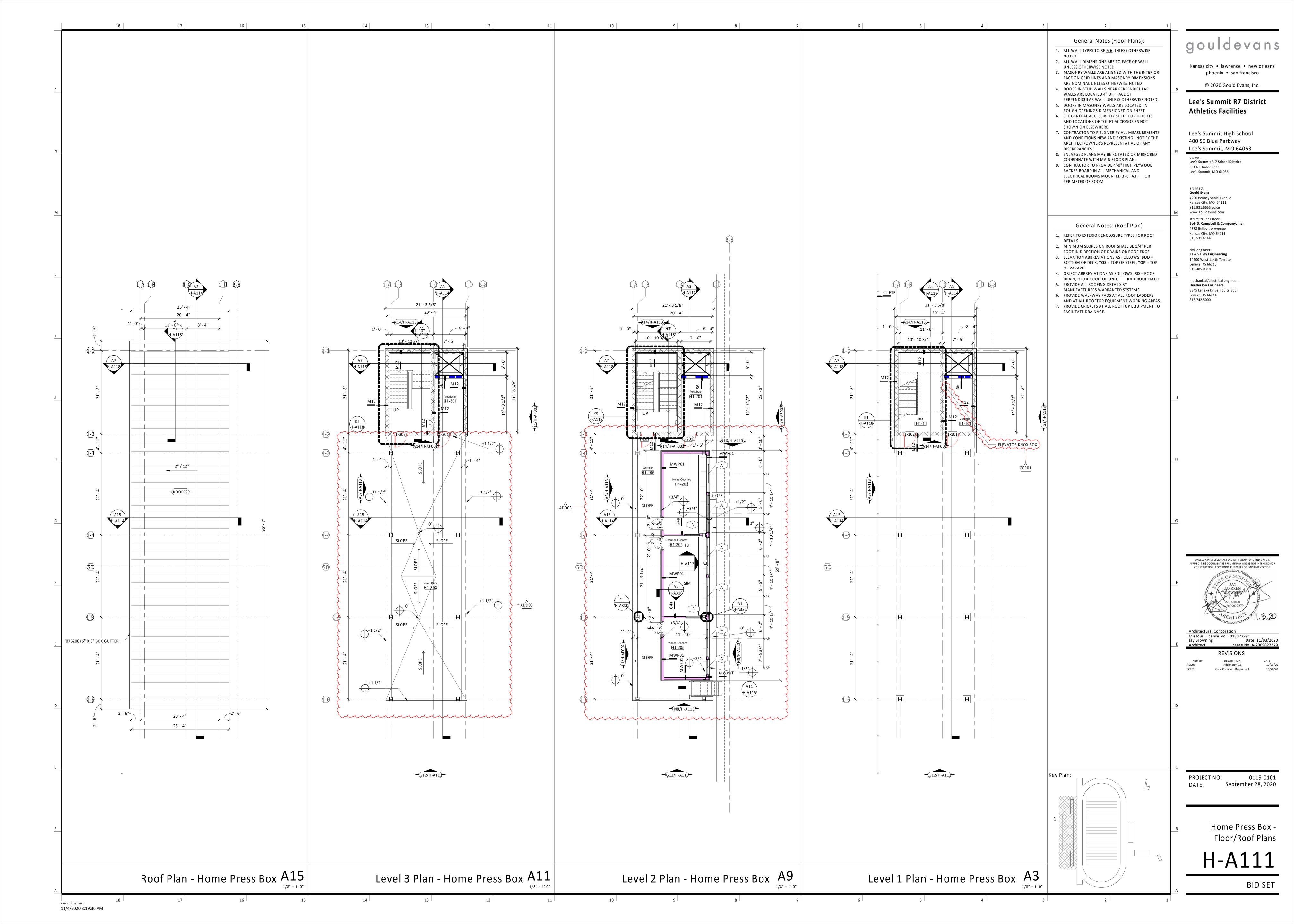




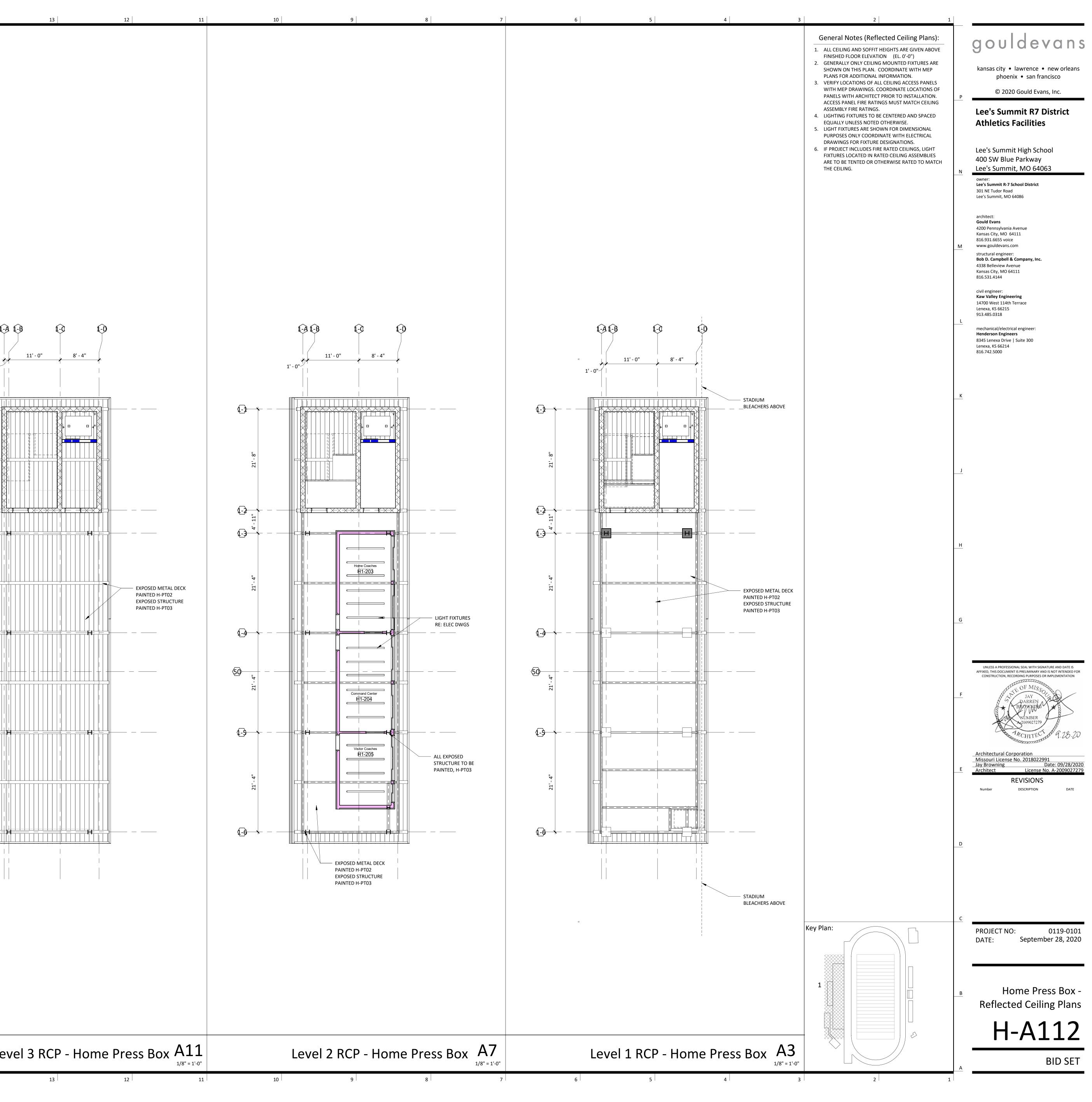
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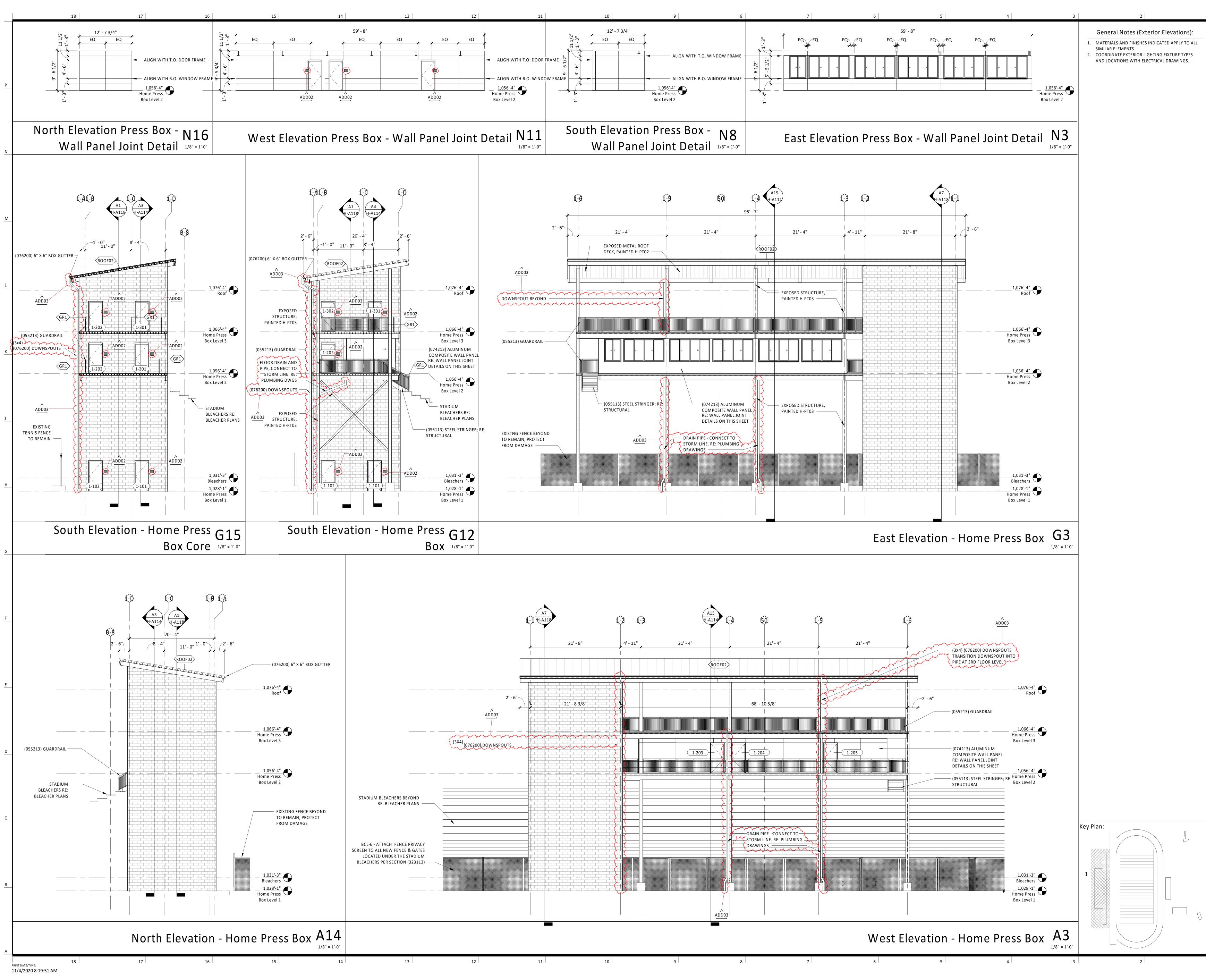
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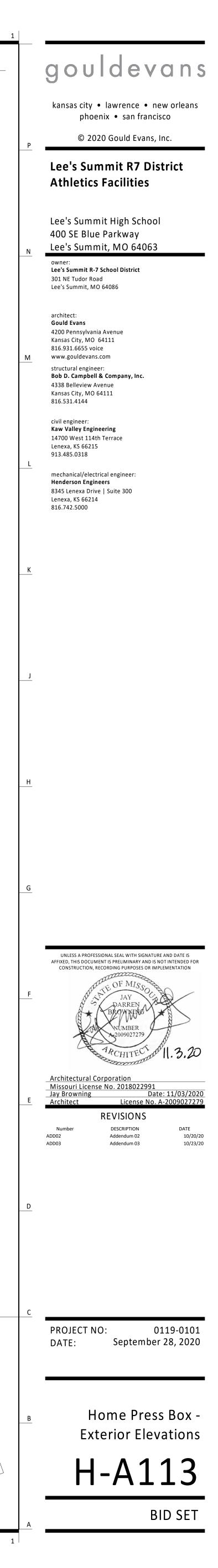


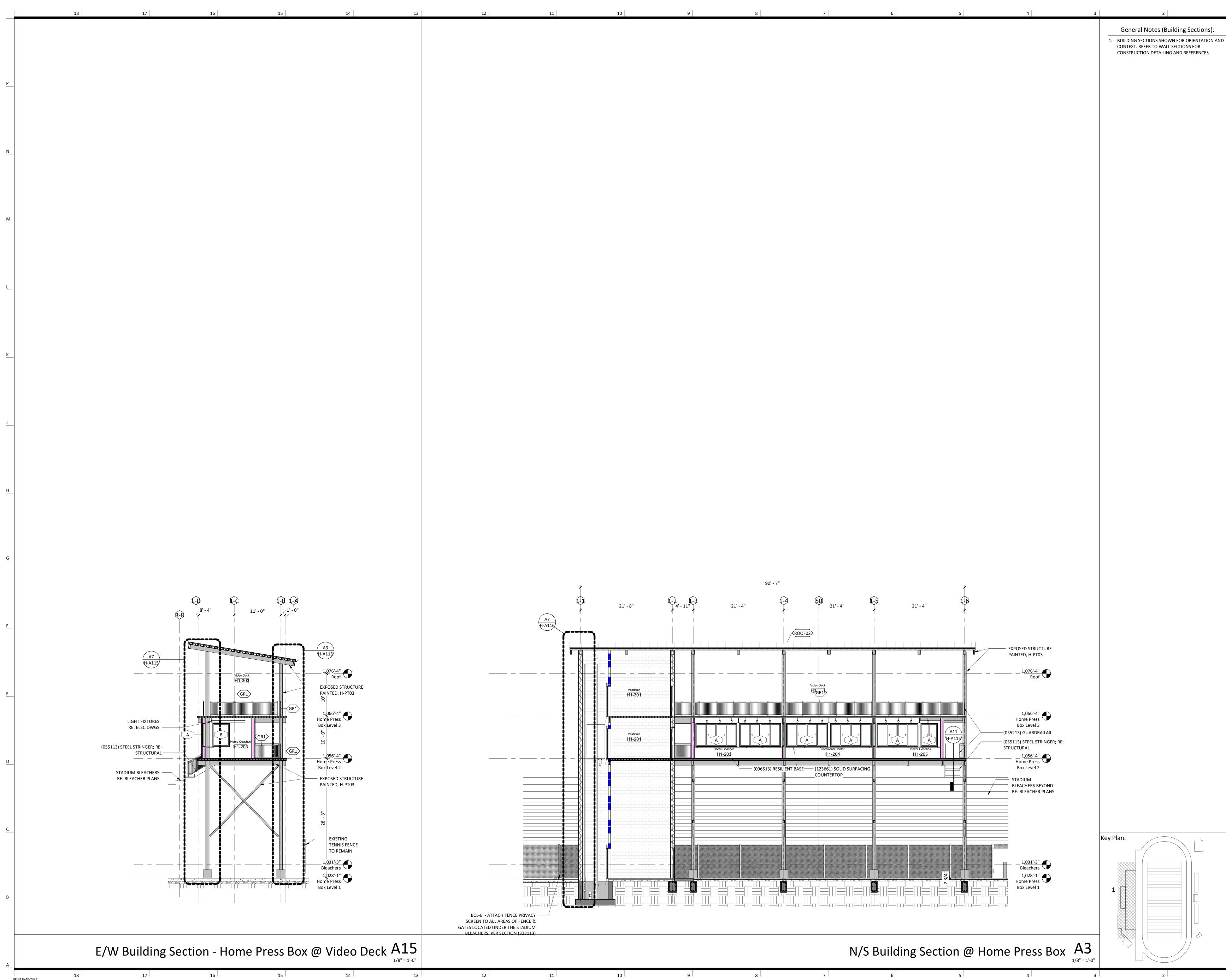
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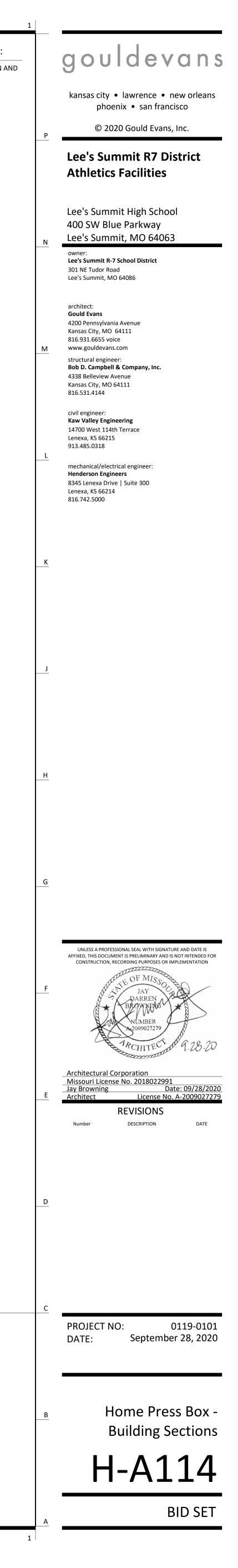




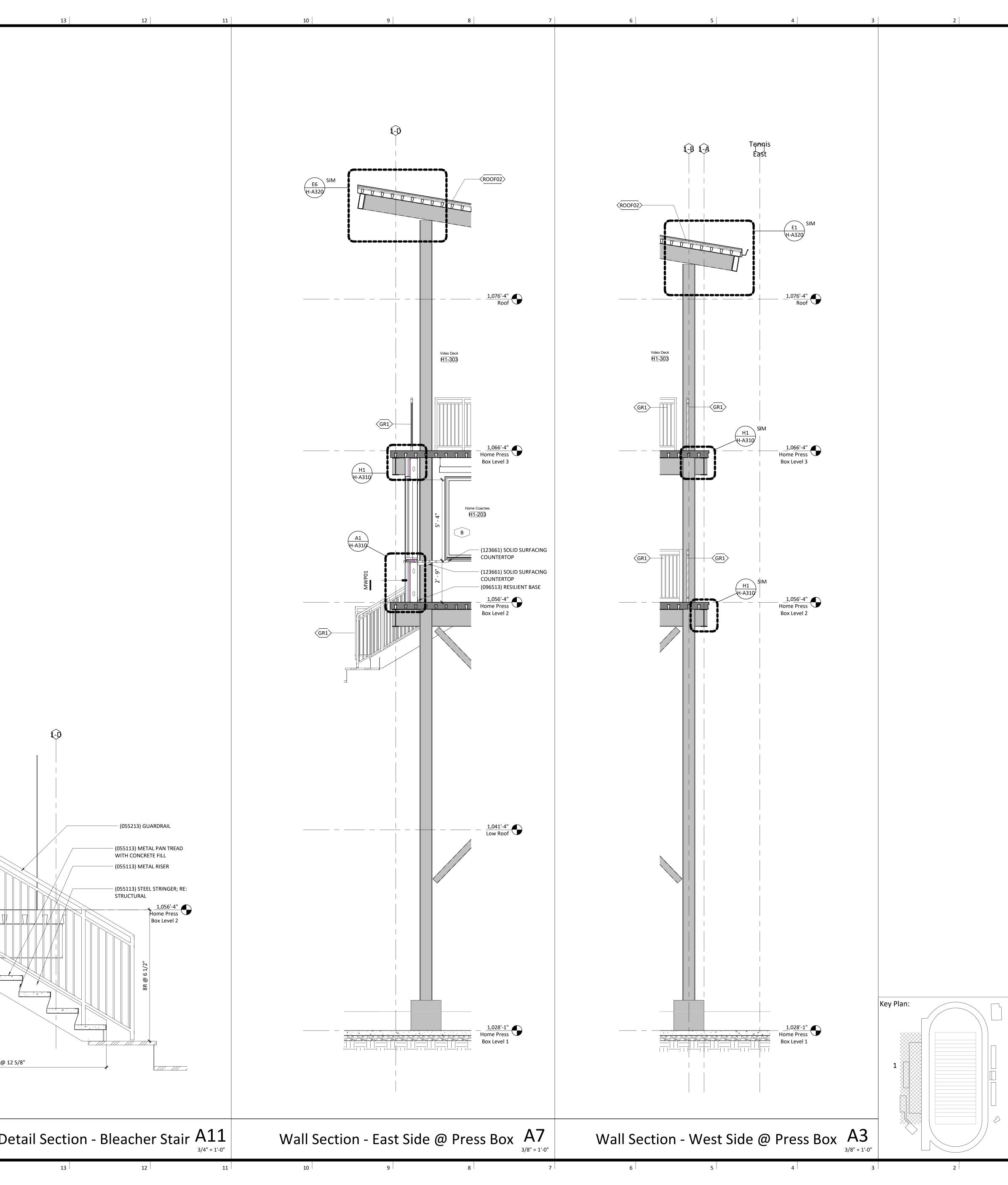
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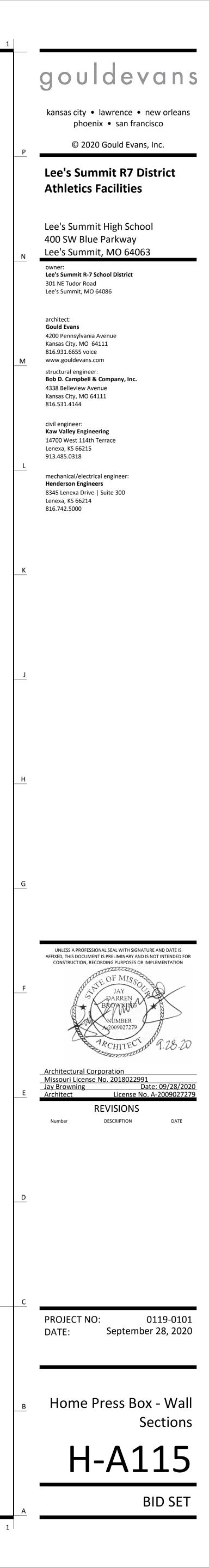




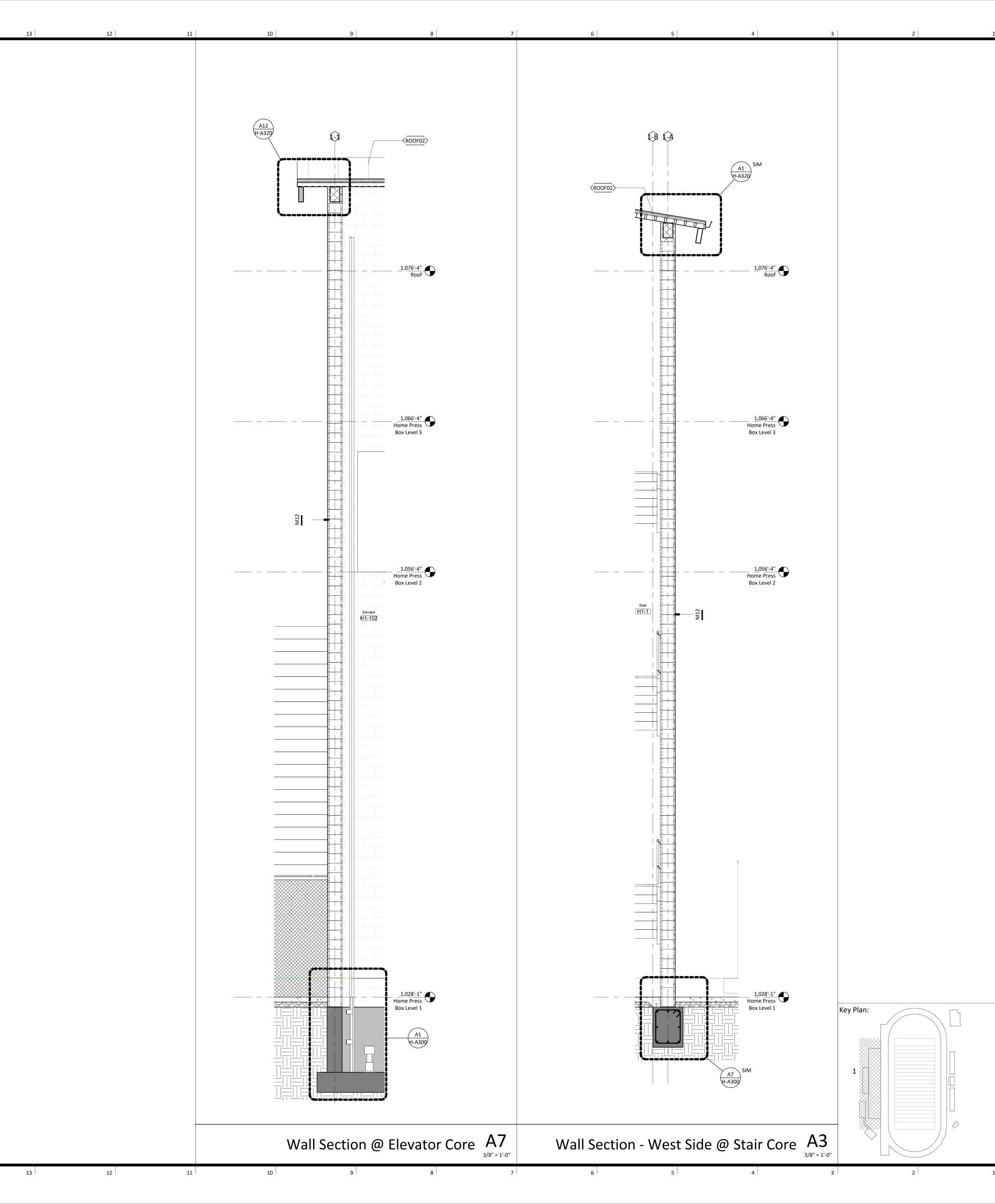


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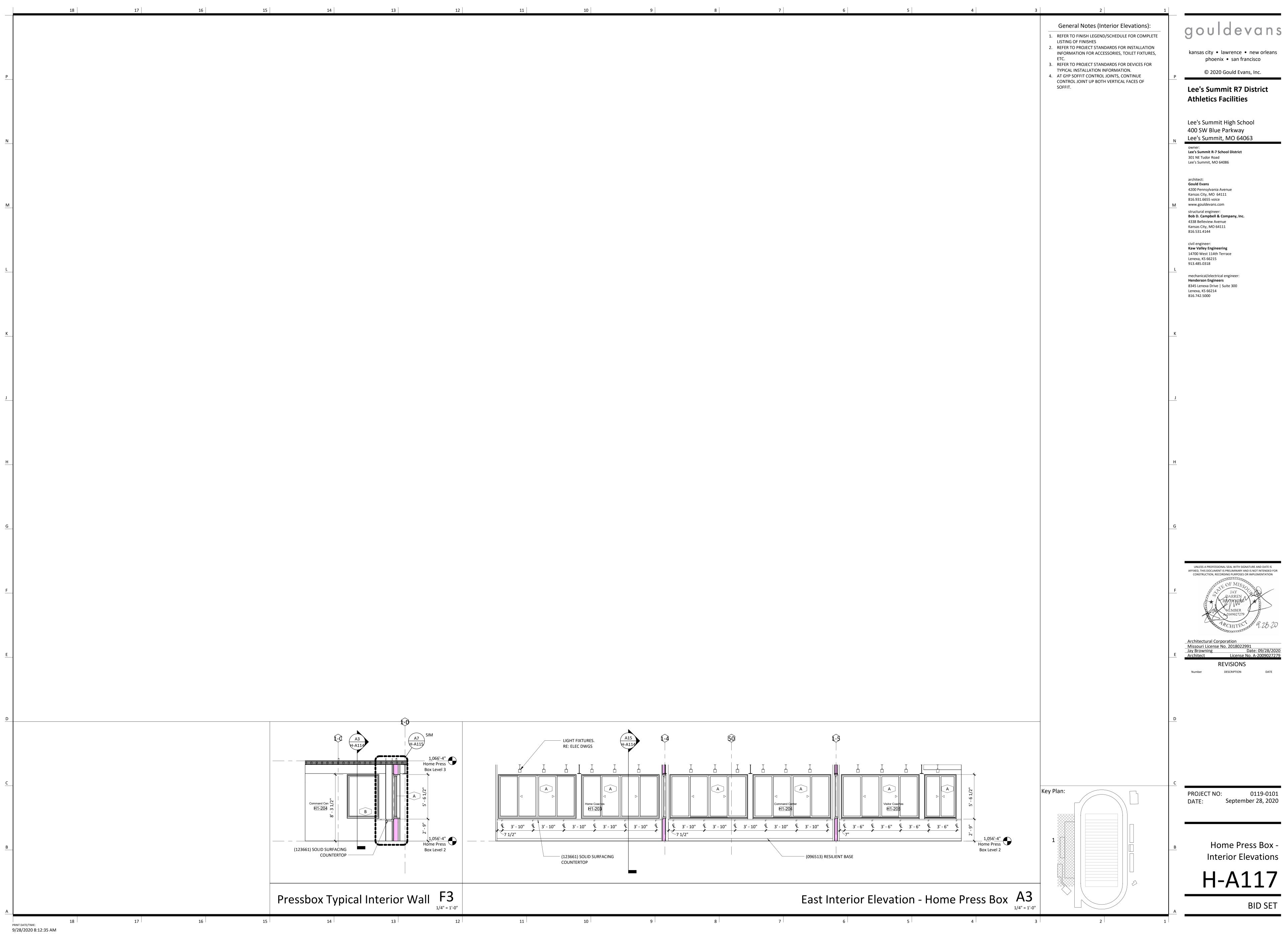




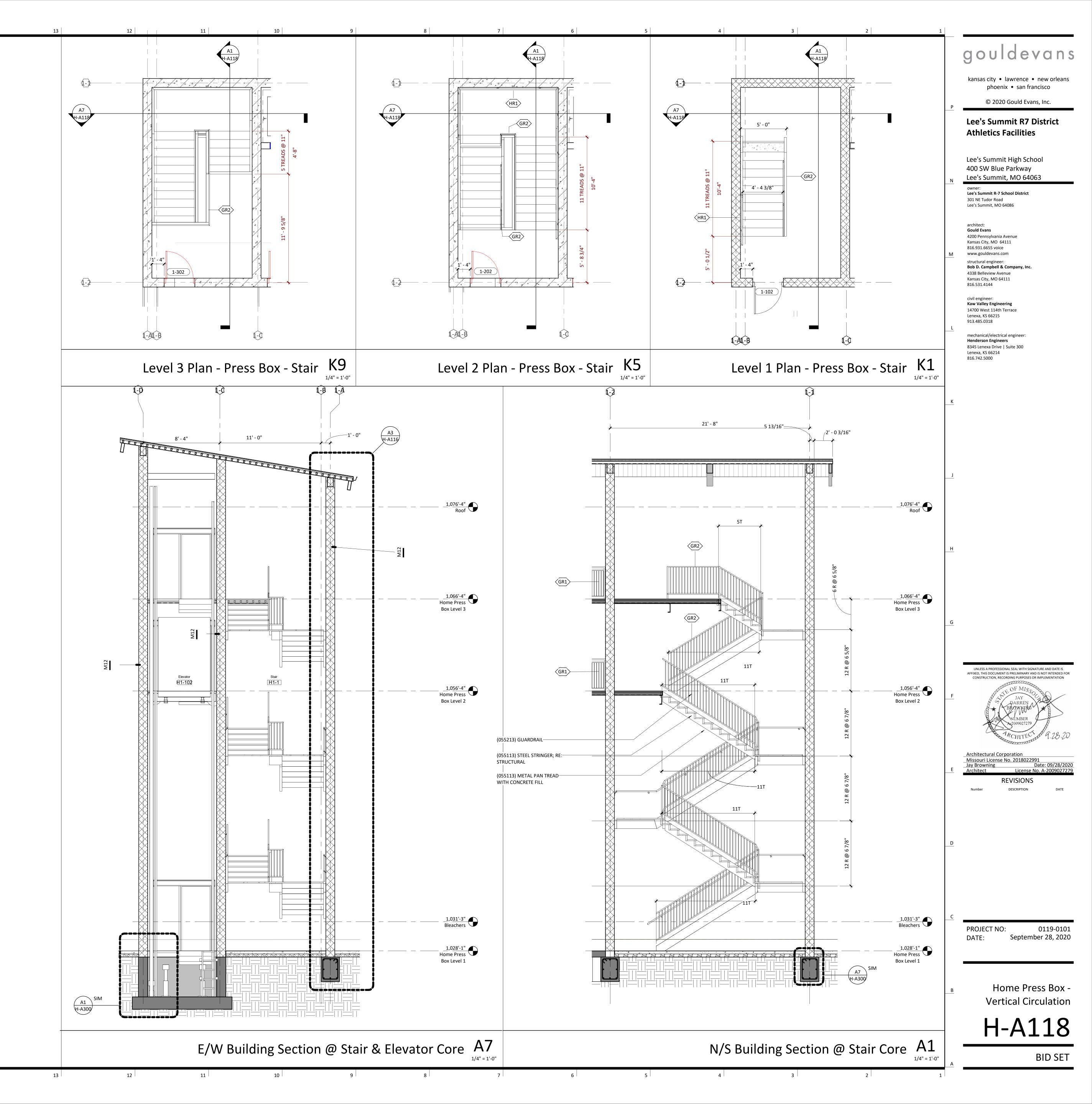
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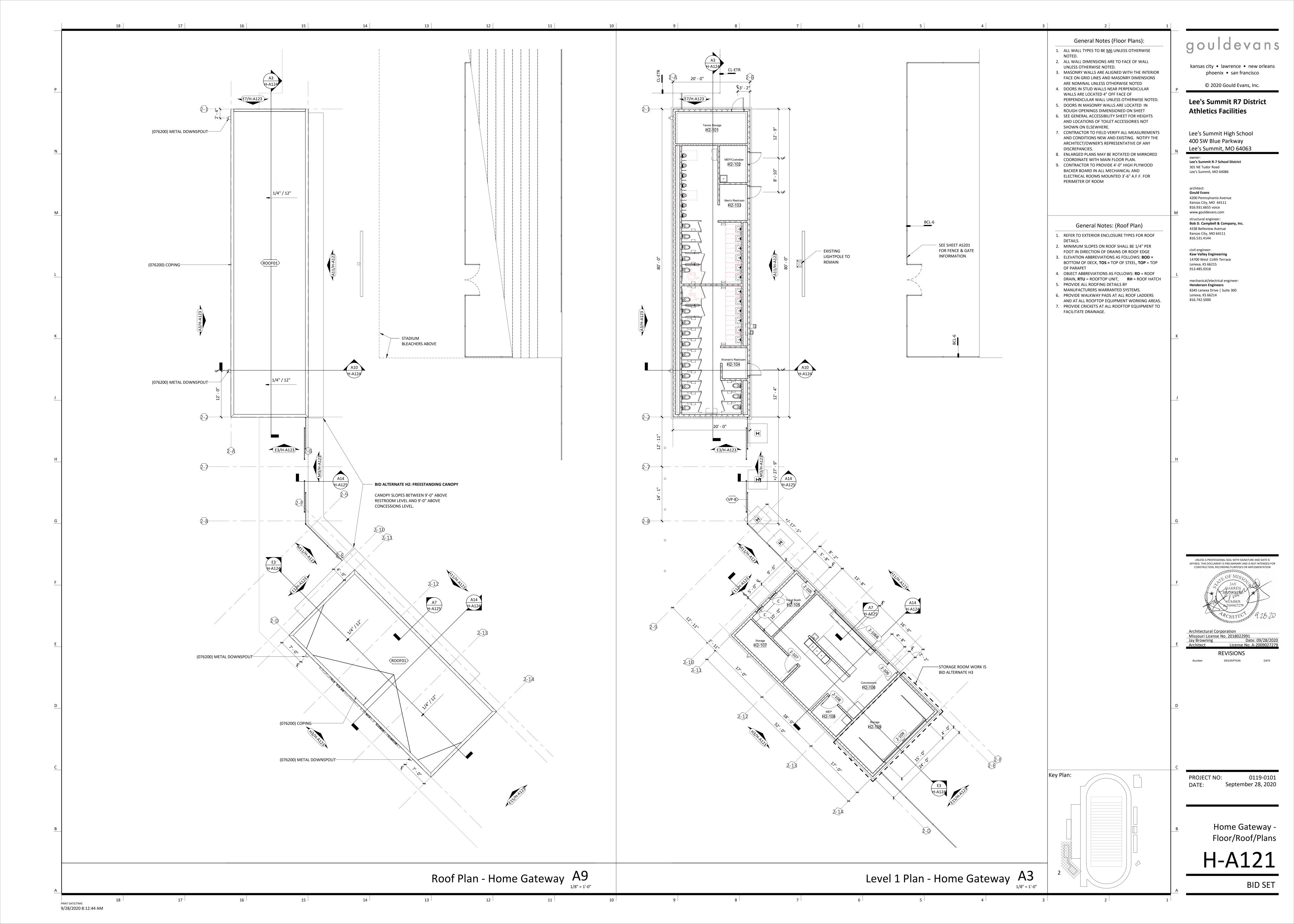


gouldevans kansas city • lawrence • new orleans phoenix • san francisco © 2020 Gould Evans, Inc. Lee's Summit R7 District **Athletics Facilities** Lee's Summit High School 400 SW Blue Parkway Lee's Summit, MO 64063 owner: Lee's Summit R-7 School District 301 NE Tudor Road Lee's Summit, MO 64086 architect: Gould Evans 4200 Pennsylvania Avenue Kansas City, MO 64111 816.931.6655 voice www.gouldevans.com structural engineer: Bob D. Campbell & Company, Inc. 4338 Belleview Avenue Kansas City, MO 64111 816.531.4144 civil engineer: Kaw Valley Engineering 14700 West 114th Terrace Lenexa, KS 66215 913.485.0318 mechanical/electrical engineer: Henderson Engineers 8345 Lenexa Drive | Suite 300 Lenexa, KS 66214 816.742.5000 UNLESS A PROFESSIONAL SEAL WITH SIGNATURE AND DATE IS AFFIXED, THIS DOCUMENT IS PRELIMINARY AND IS NOT INTENDED FOR CONSTRUCTION, RECORDING PURPOSES OR IMPLEMENTATION Architectural CorporationMissouri License No. 2018022991Jay BrowningDate: 09/28/2020ArchitectLicense No. A-2009027279 REVISIONS DESCRIPTION Number DAT D: 0119-0101 September 28, 2020 PROJECT NO: DATE: Home Press Box - Wall Sections H-A116 **BID SET** 

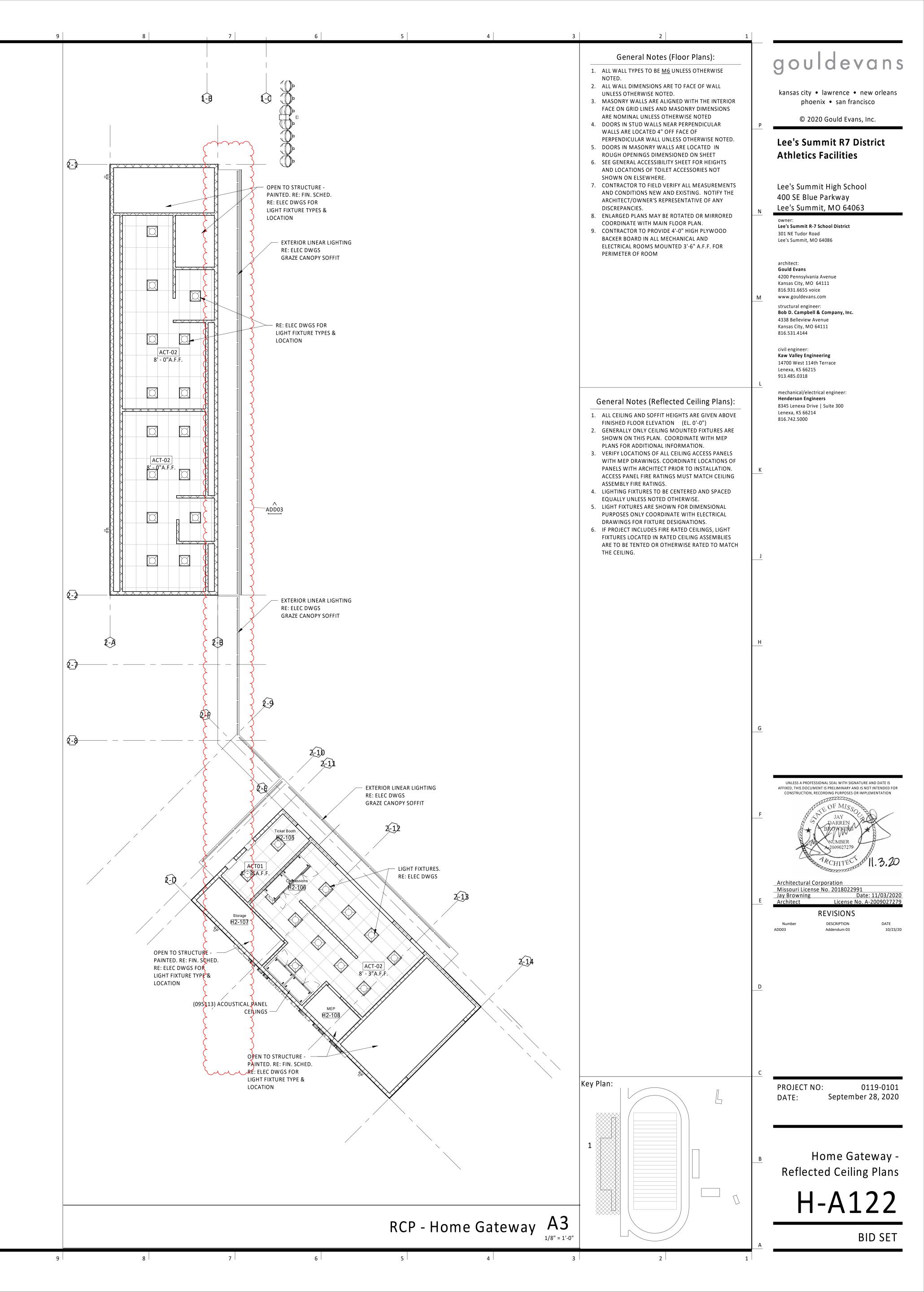


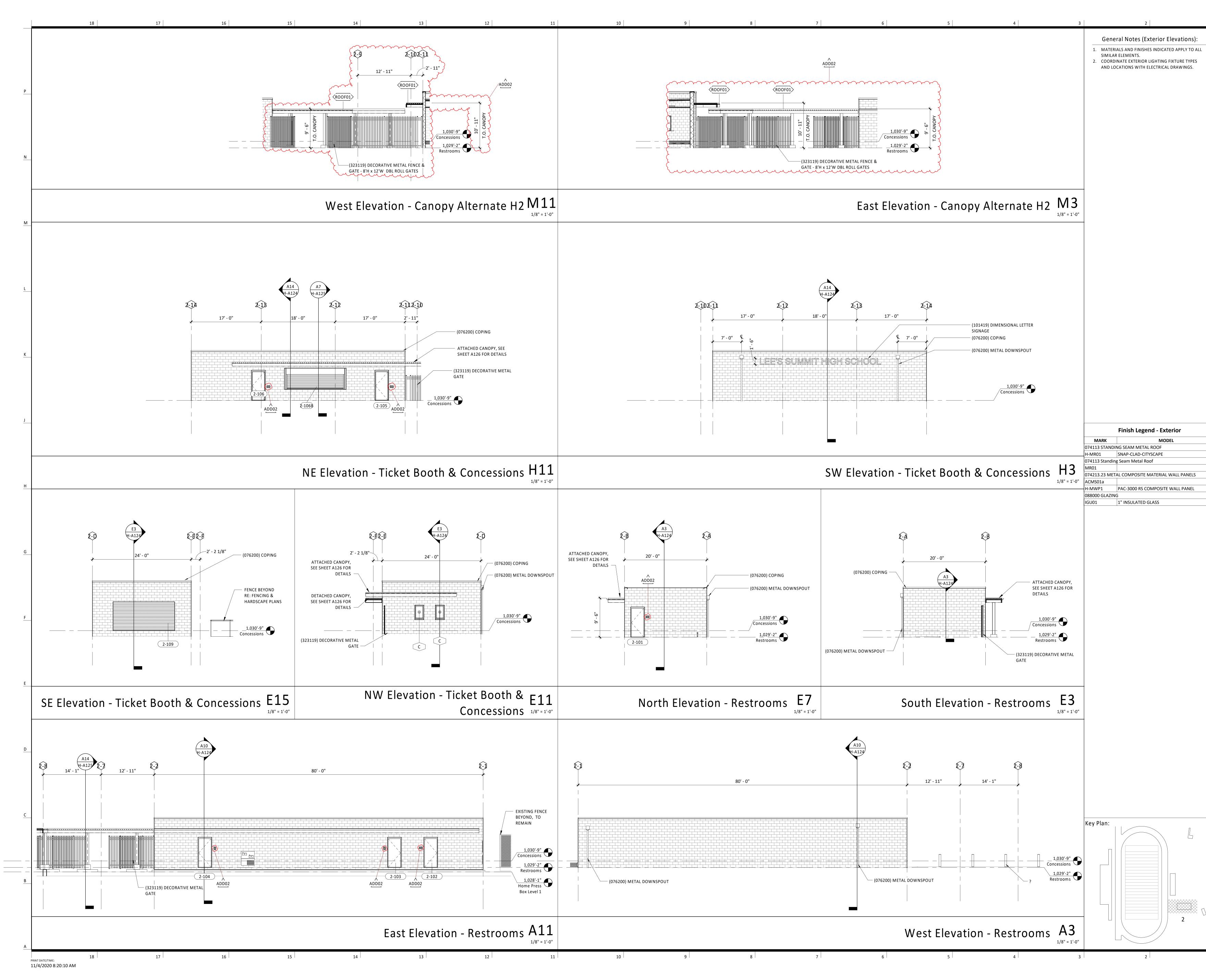
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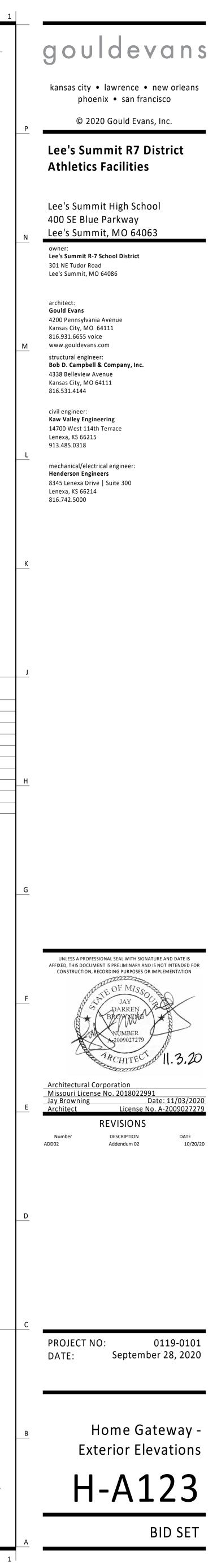


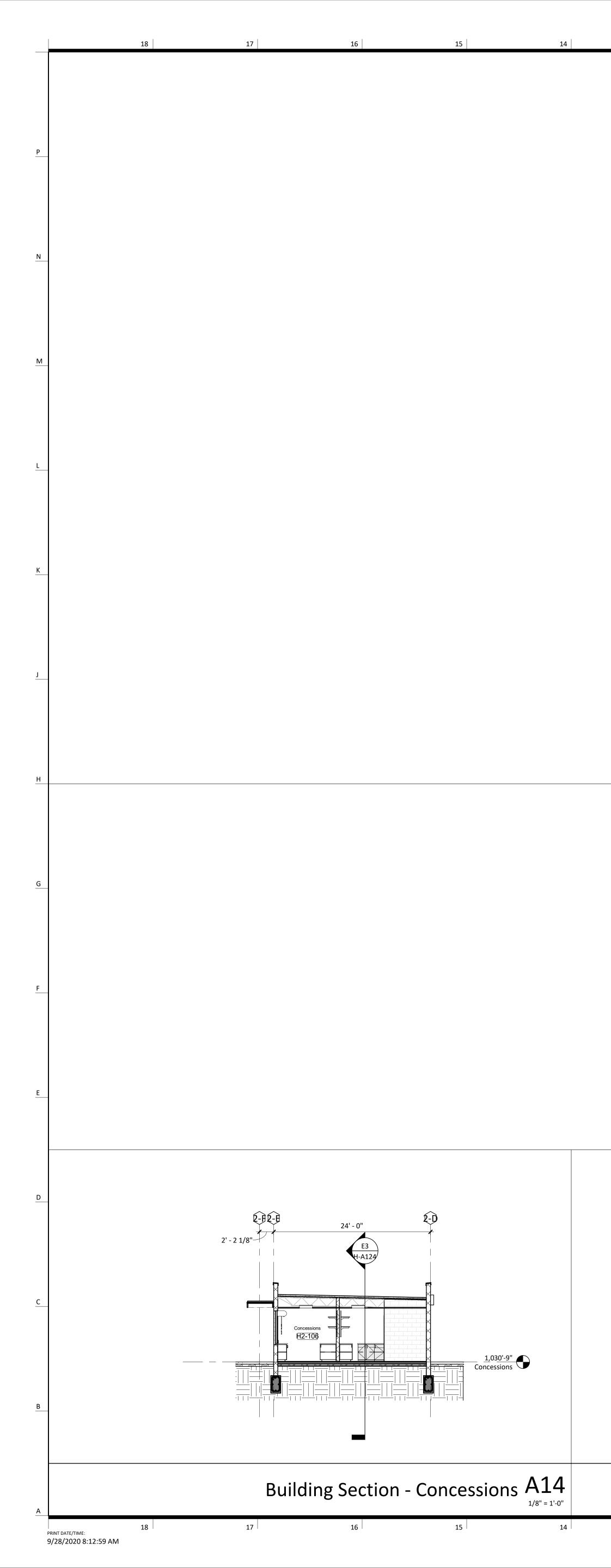


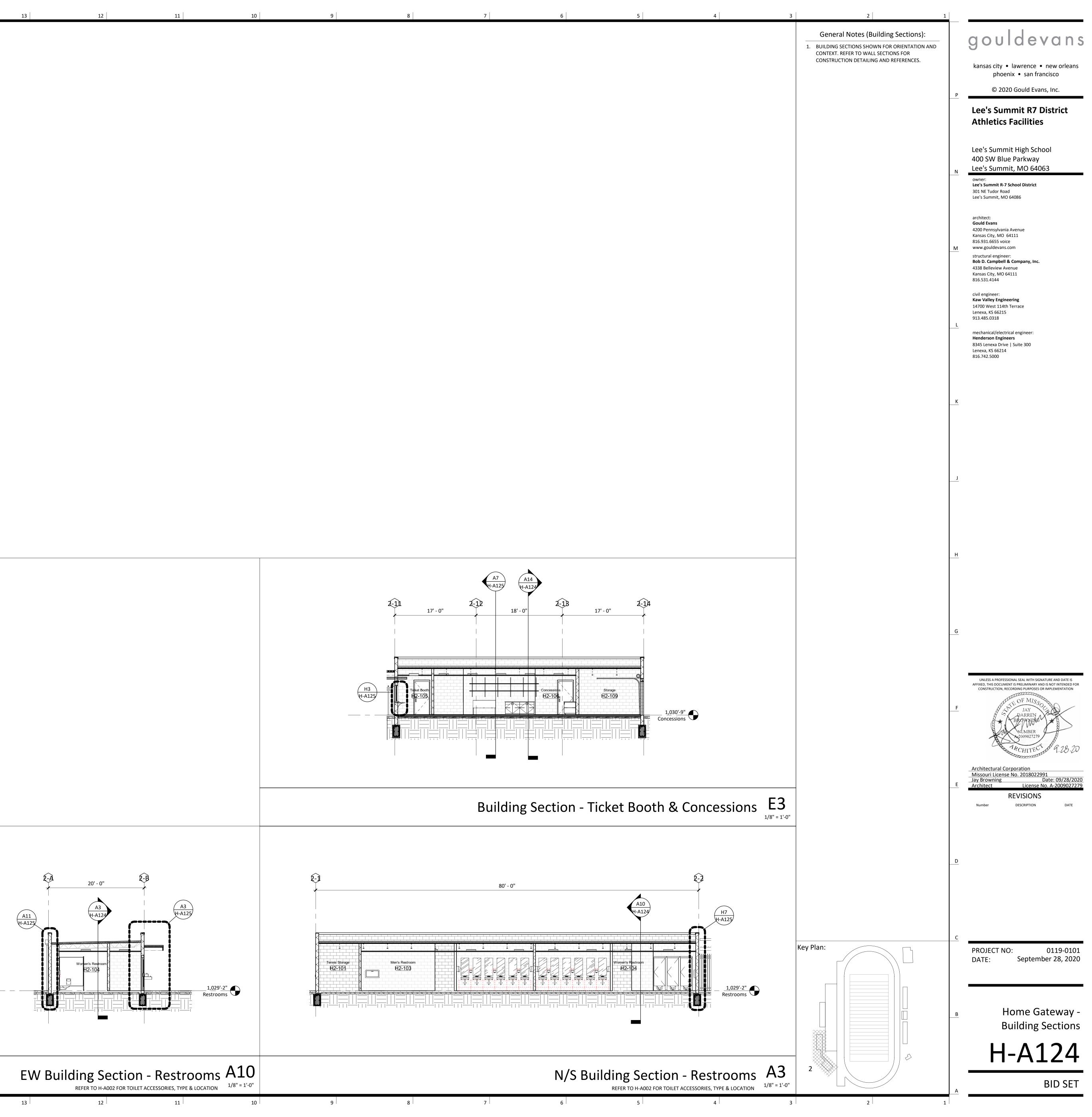
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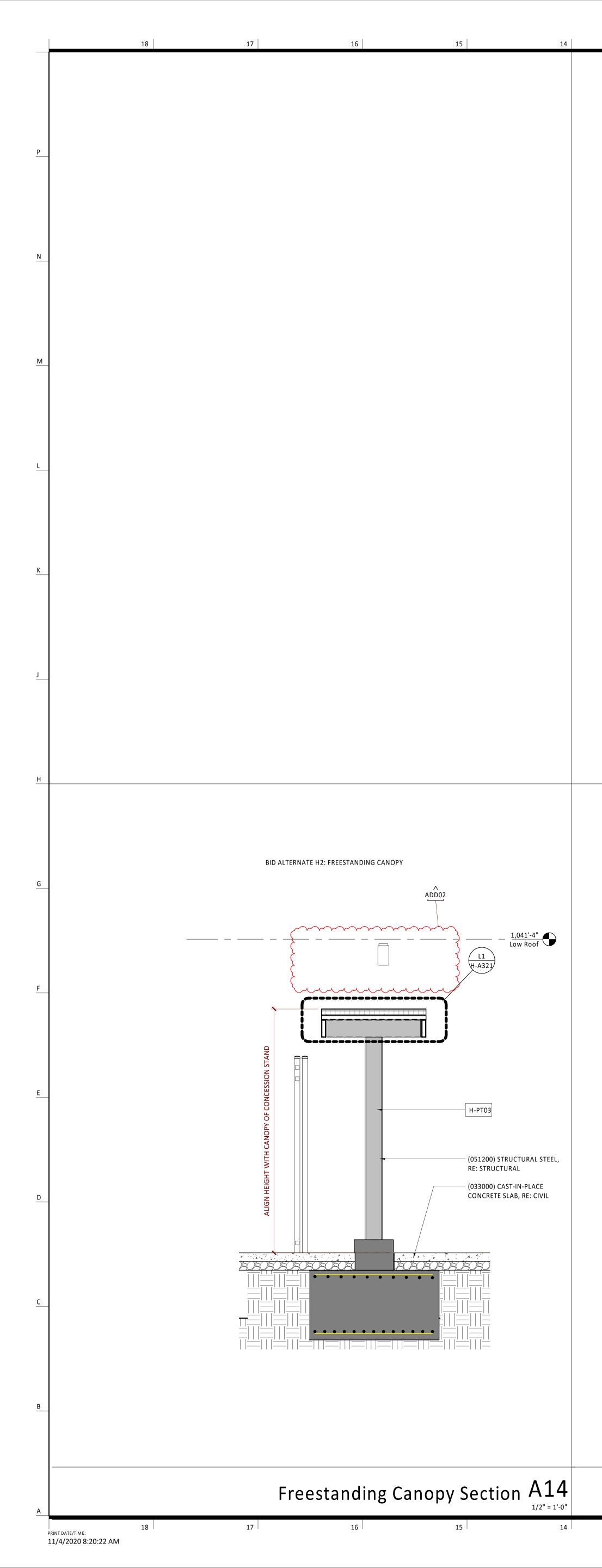


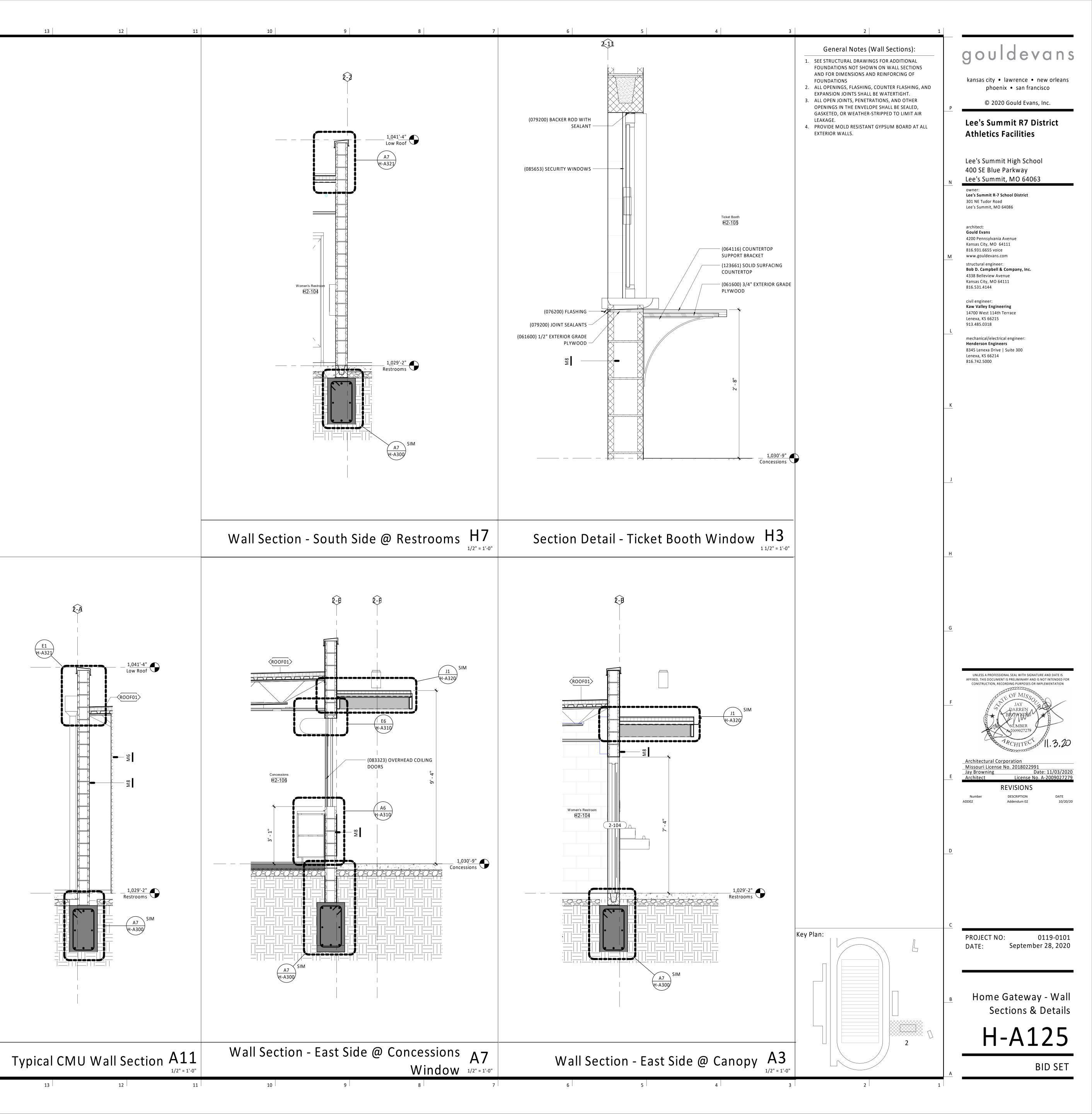


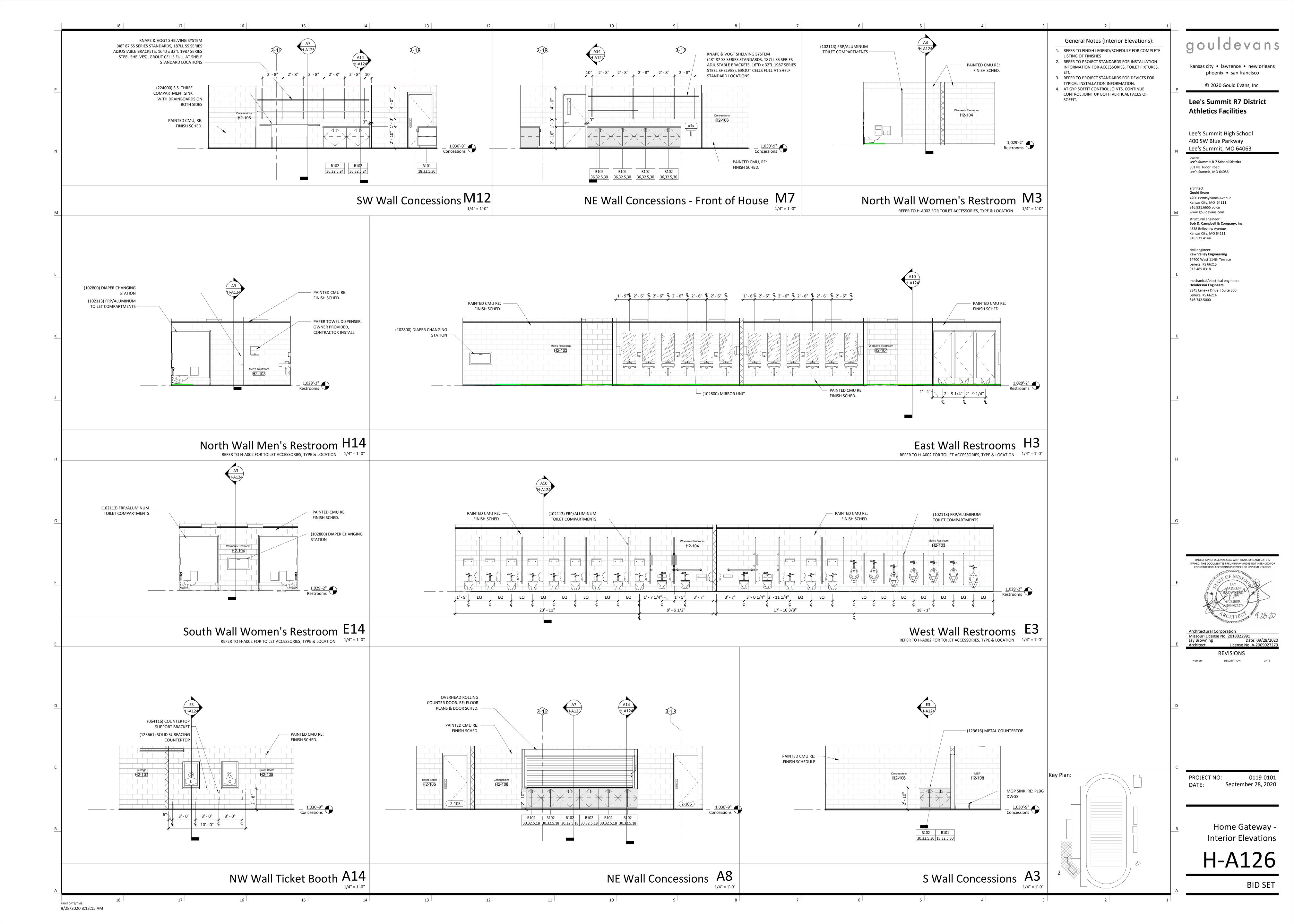


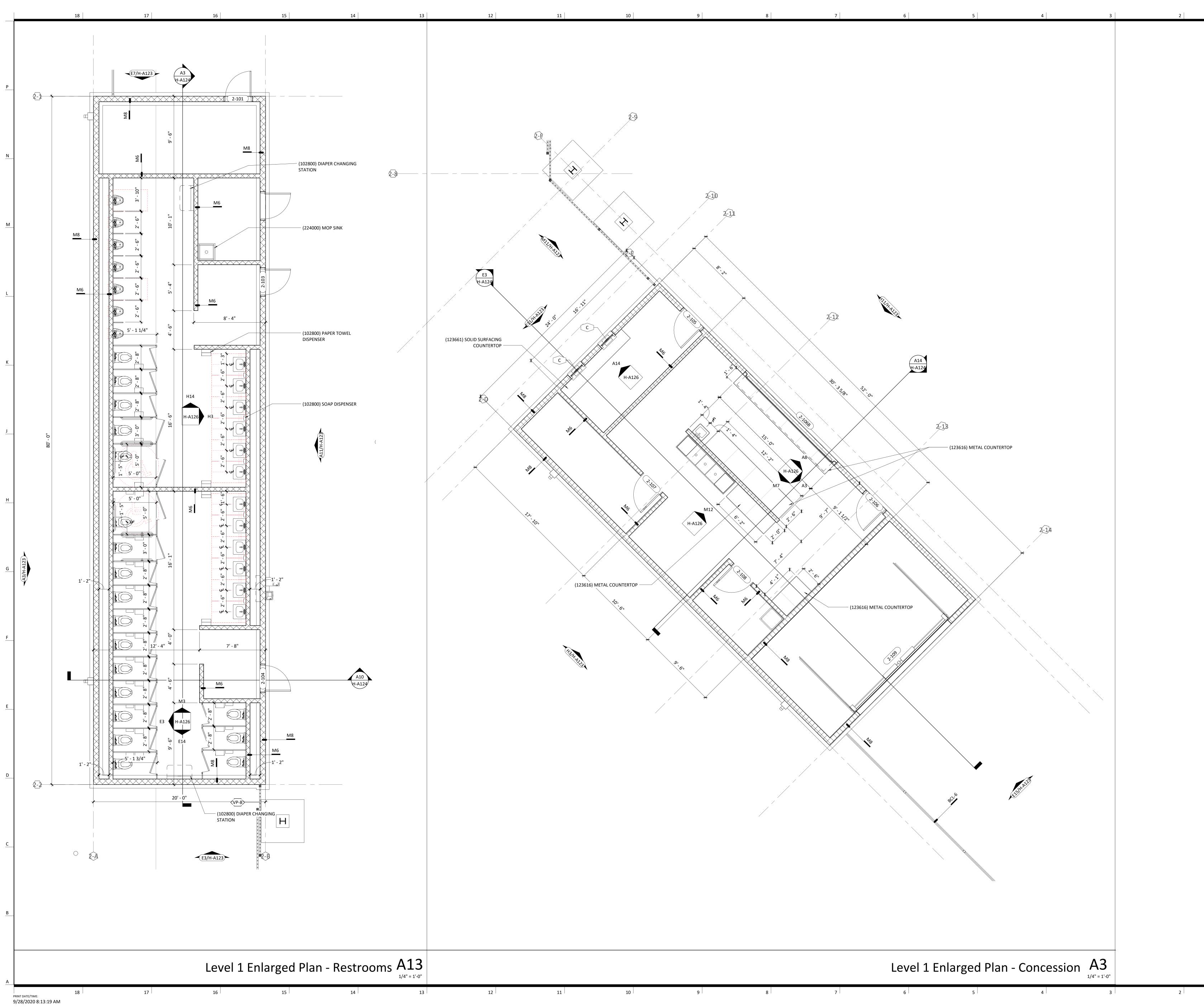


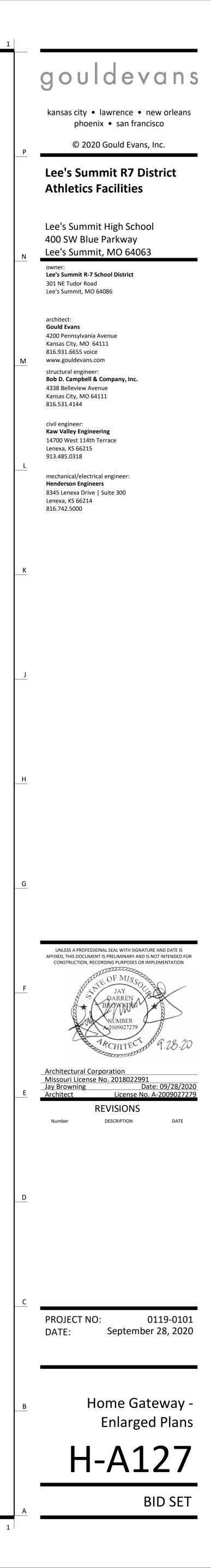


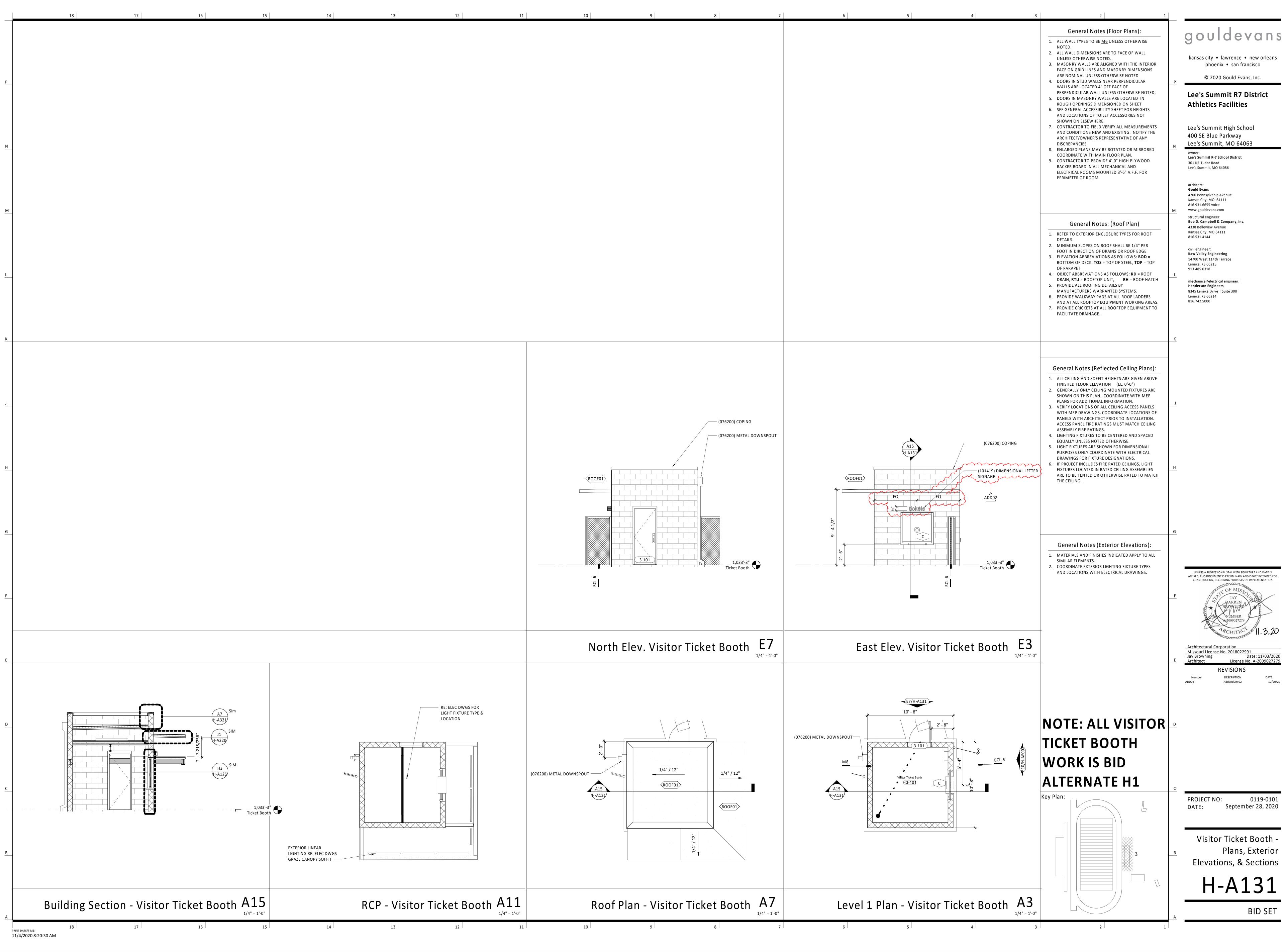


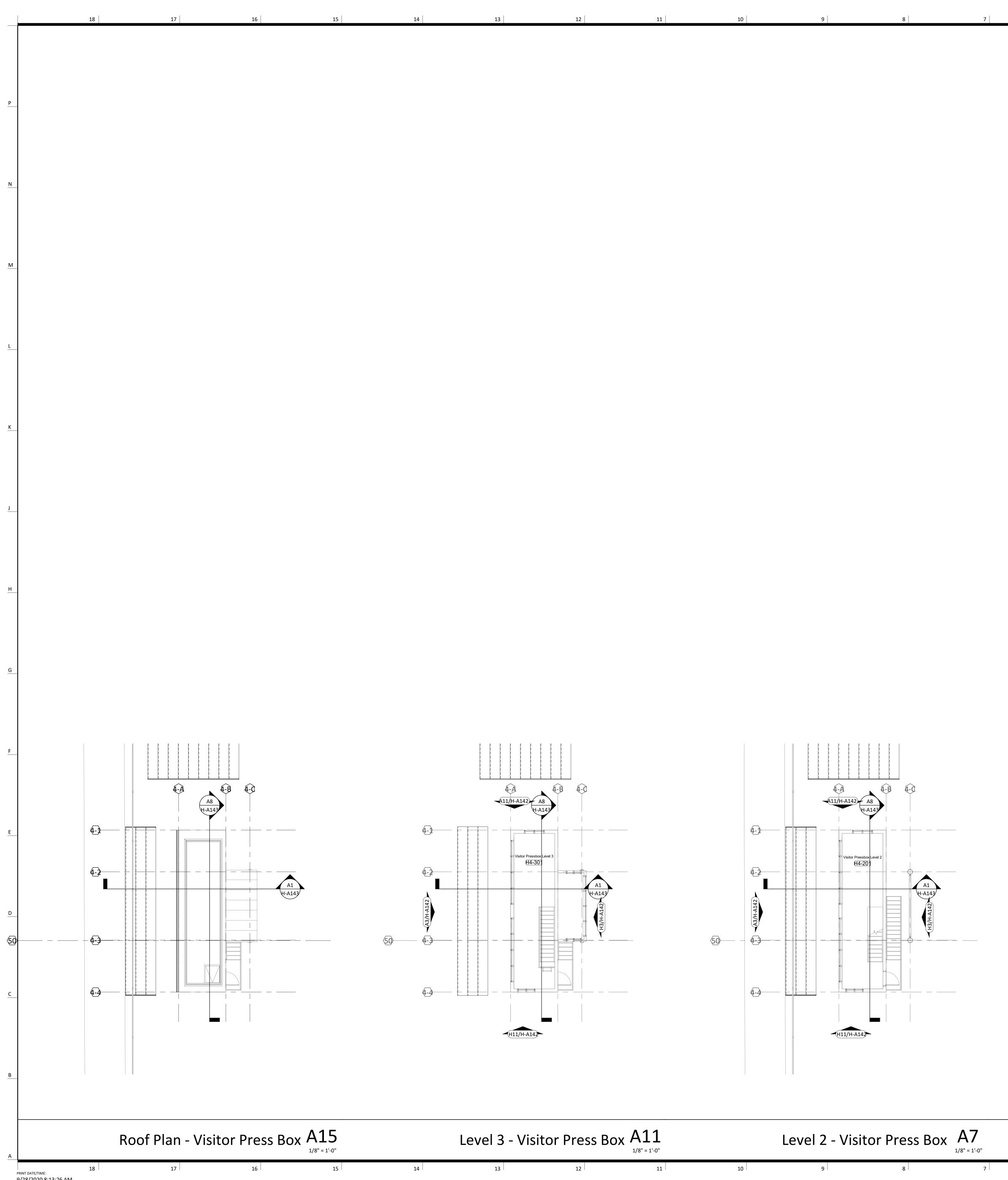






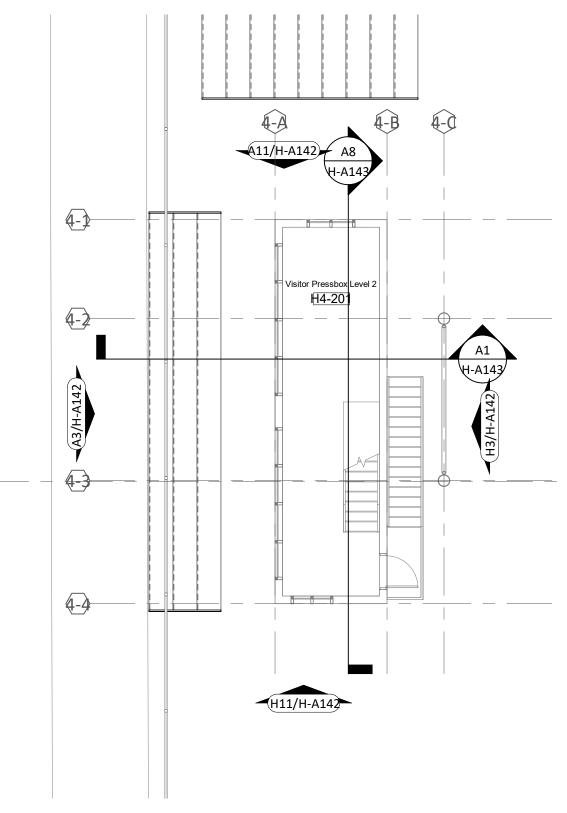






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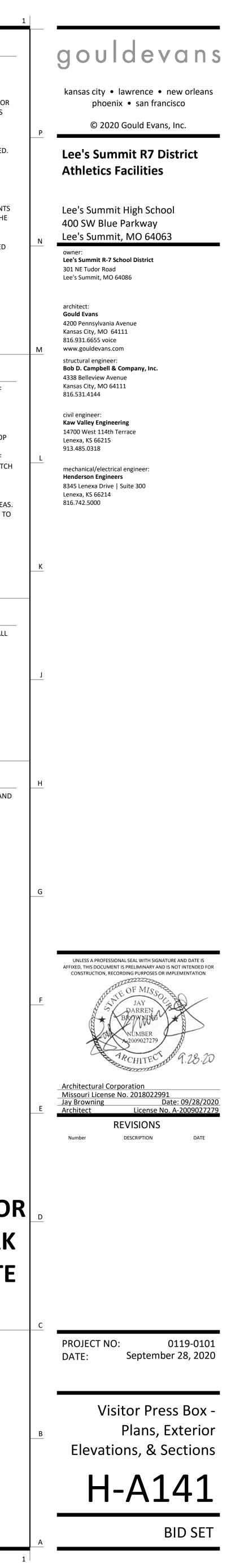
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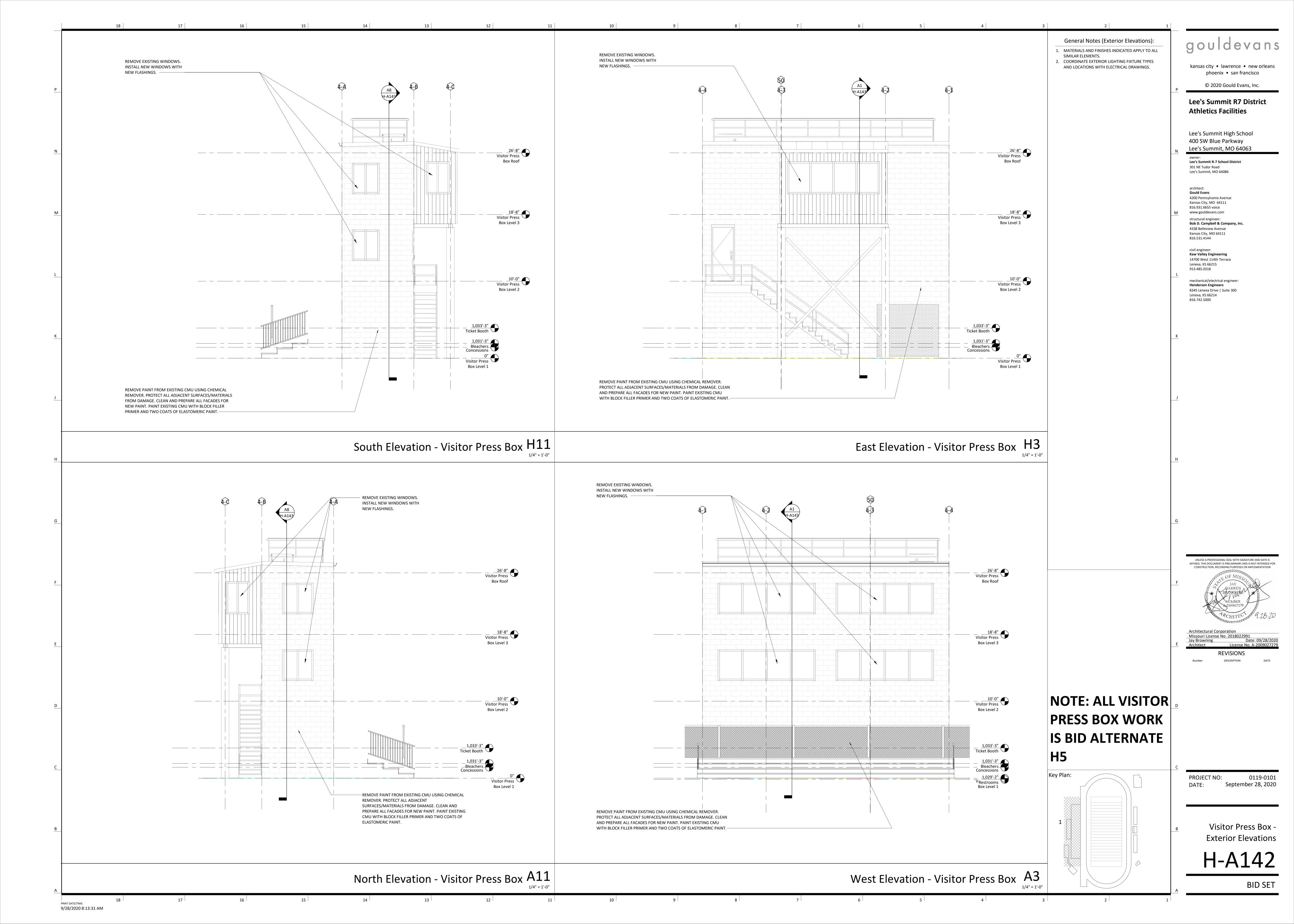


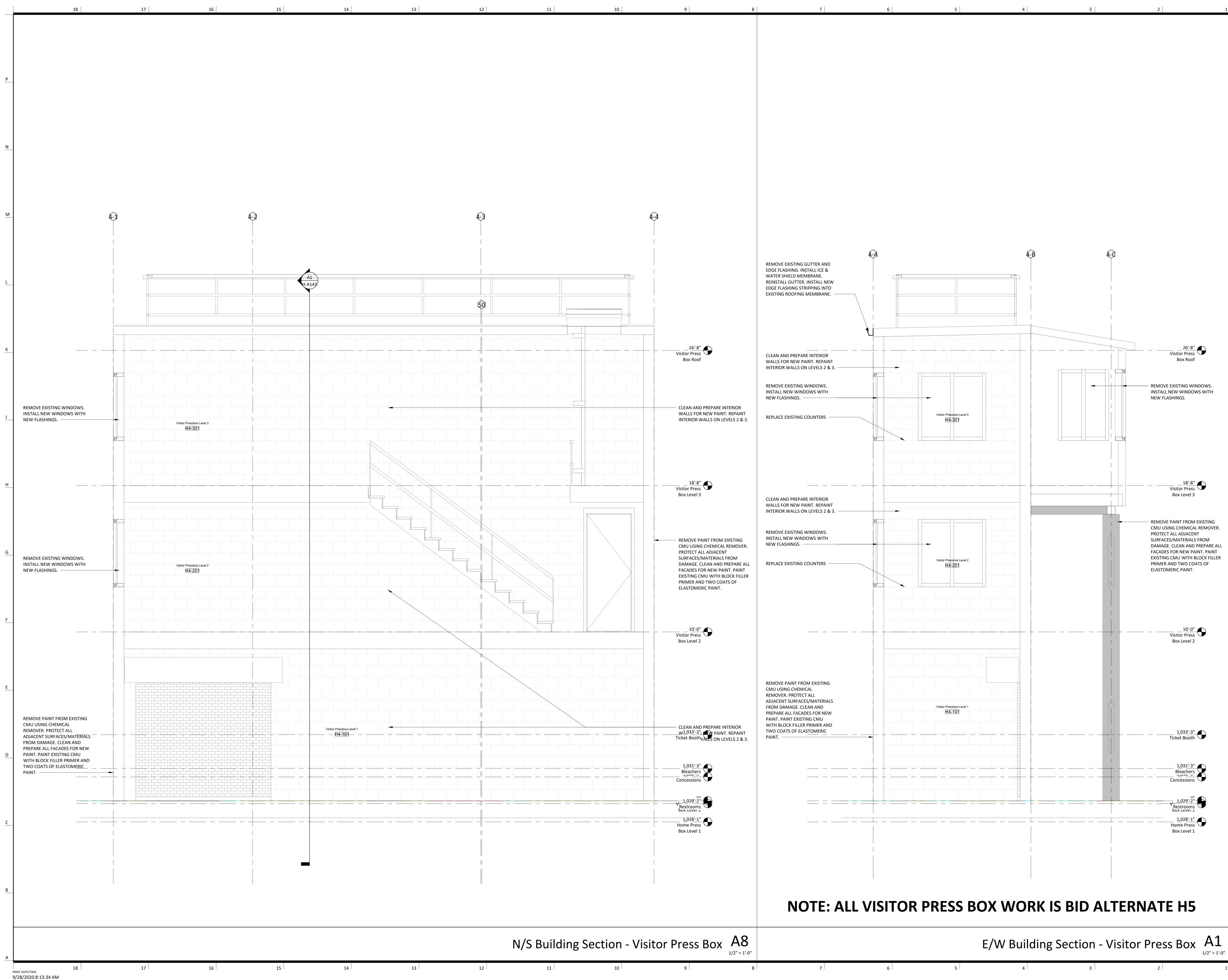
# Level 2 - Visitor Press Box $A_{\frac{1}{8}=1}^{7}$

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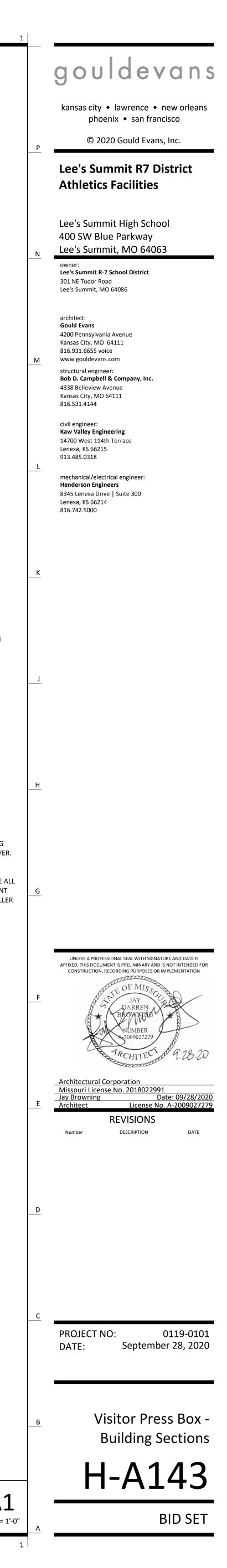
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				<ol> <li>General Notes (Floor Plans):</li> <li>ALL WALL TYPES TO BE <u>M6</u> UNLESS OTHERWISE NOTED.</li> <li>ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.</li> <li>MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED</li> <li>DOORS IN STUD WALLS NEAR PERPENDICULAR WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.</li> <li>DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET</li> <li>SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.</li> <li>CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.</li> <li>ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.</li> <li>CONTRACTOR TO PROVIDE 4'-0" HIGH PLYWOOD BACKER BOARD IN ALL MECHANICAL AND ELECTRICAL ROOMS MOUNTED 3'-6" A.F.F. FOR PERIMETER OF ROOM</li> </ol>
				<ul> <li>General Notes: (Roof Plan)</li> <li>REFER TO EXTERIOR ENCLOSURE TYPES FOR ROOF DETAILS.</li> <li>MINIMUM SLOPES ON ROOF SHALL BE 1/4" PER FOOT IN DIRECTION OF DRAINS OR ROOF EDGE</li> <li>ELEVATION ABBREVIATIONS AS FOLLOWS: BOD = BOTTOM OF DECK, TOS = TOP OF STEEL, TOP = TOP OF PARAPET</li> <li>OBJECT ABBREVIATIONS AS FOLLOWS: RD = ROOF DRAIN, RTU = ROOFTOP UNIT, RH = ROOF HATCH</li> <li>PROVIDE ALL ROOFING DETAILS BY MANUFACTURERS WARRANTED SYSTEMS.</li> <li>PROVIDE WALKWAY PADS AT ALL ROOF LADDERS AND AT ALL ROOFTOP EQUIPMENT WORKING AREAS.</li> <li>PROVIDE CRICKETS AT ALL ROOFTOP EQUIPMENT TO FACILITATE DRAINAGE.</li> </ul>
				General Notes (Exterior Elevations):           1. MATERIALS AND FINISHES INDICATED APPLY TO ALL           SIMILAR ELEMENTS.           2. COORDINATE EXTERIOR LIGHTING FIXTURE TYPES           AND LOCATIONS WITH ELECTRICAL DRAWINGS.
				General Notes (Building Sections):  1. BUILDING SECTIONS SHOWN FOR ORIENTATION AND CONTEXT. REFER TO WALL SECTIONS FOR CONSTRUCTION DETAILING AND REFERENCES.
<u> </u>		4-A 4-A 4-B 4-B 4-B 4-B 4-B 4-B 4-B 4 9'-4" 4'-9" 4'-9" 4'-9" 4'-9" 4'-9"		NOTE: ALL VISITOI PRESS BOX WORK IS BID ALTERNATE H5
<b>47</b> " = 1'-0"	Level 1 Pl	an - Visitor P	1/8" = 1'-0"	





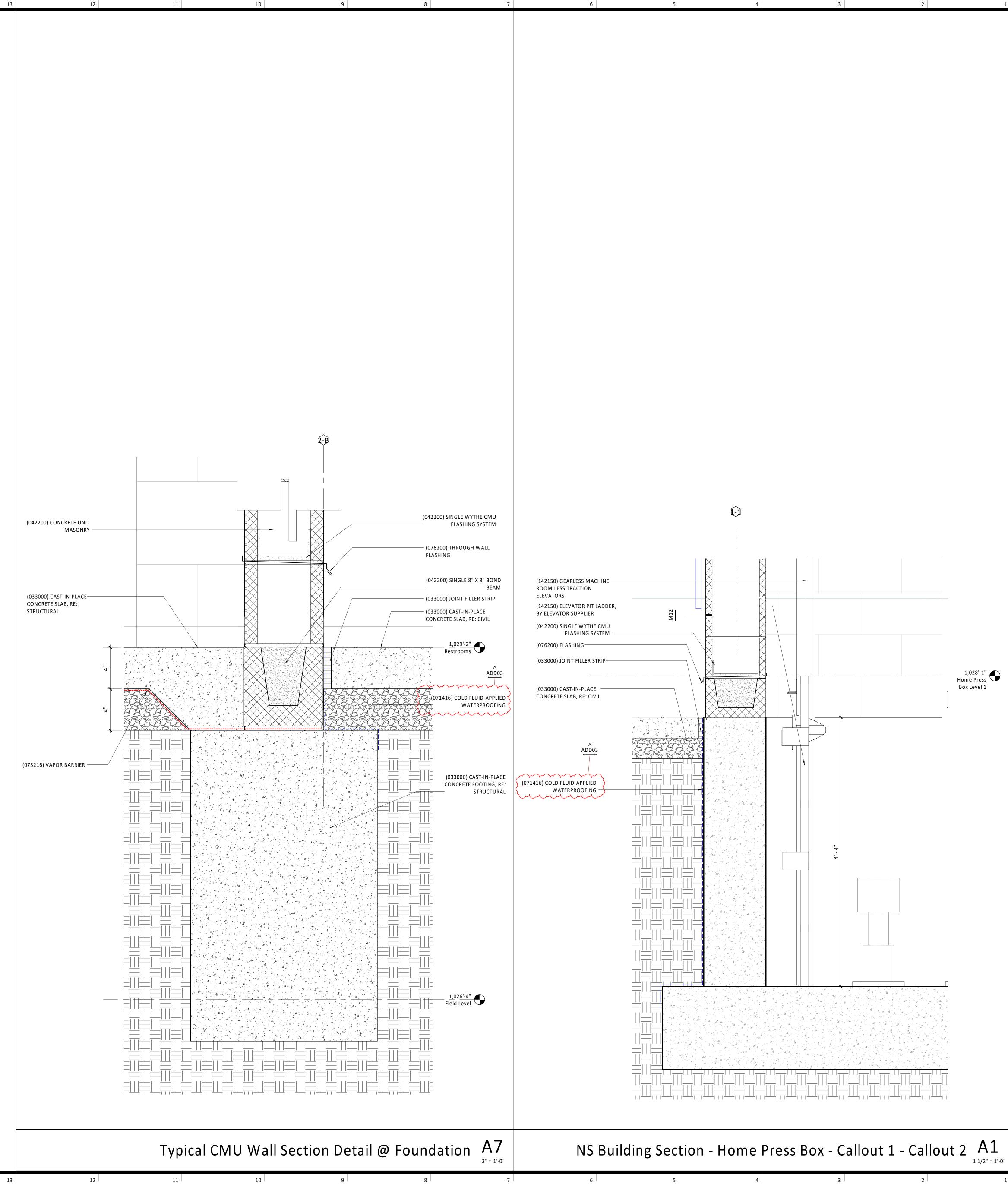


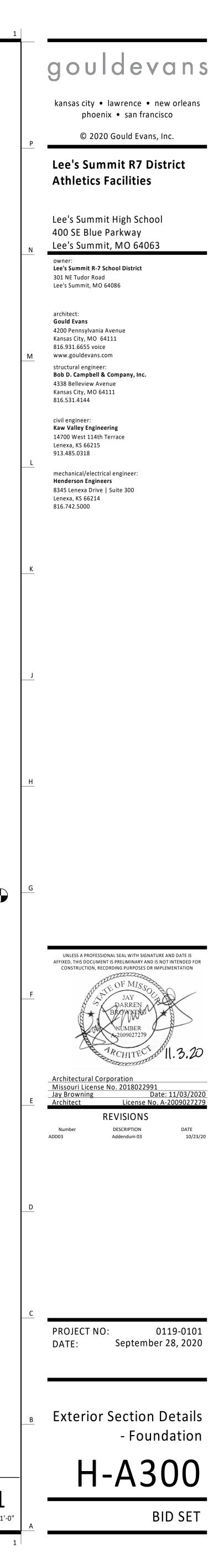




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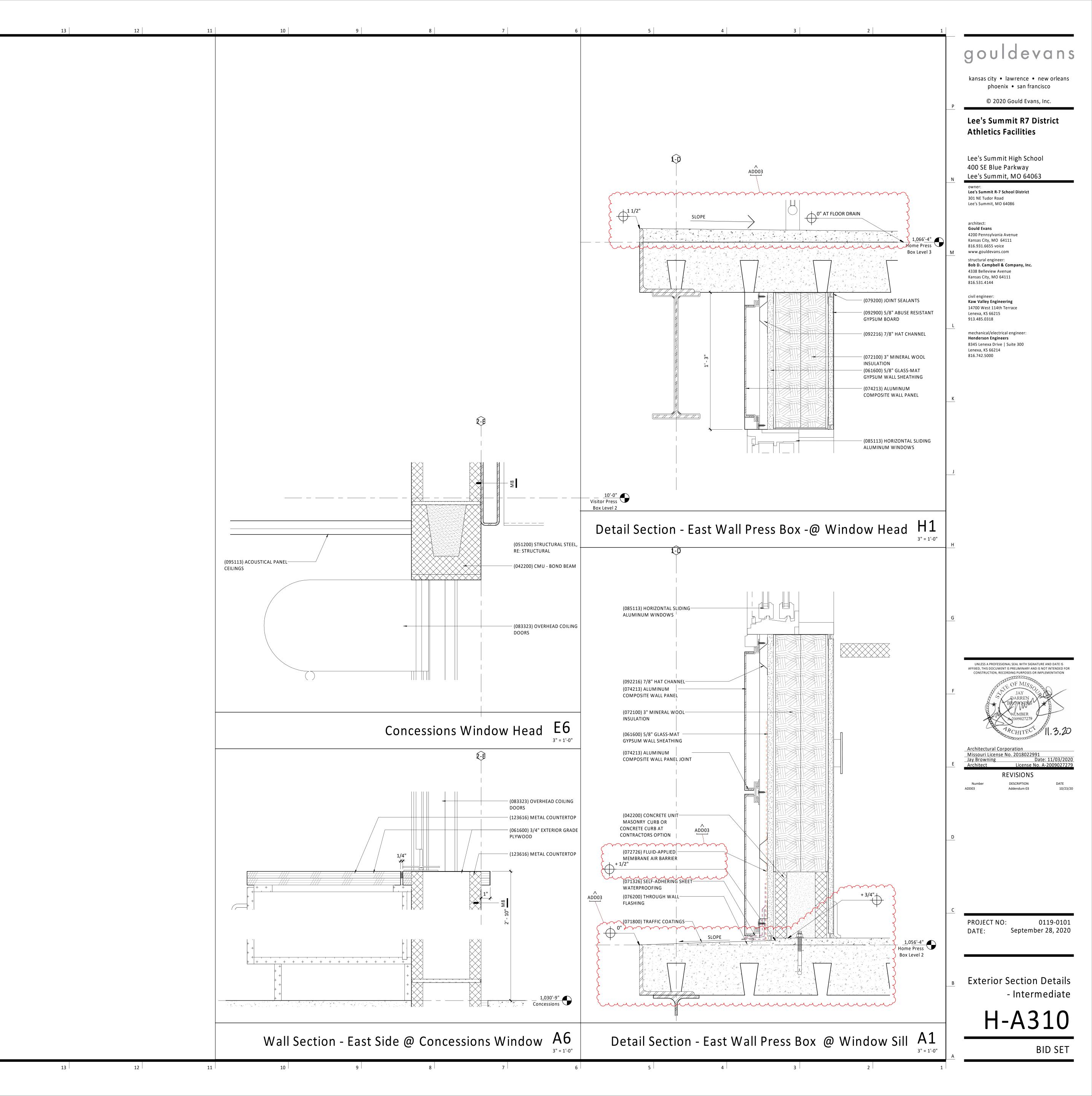
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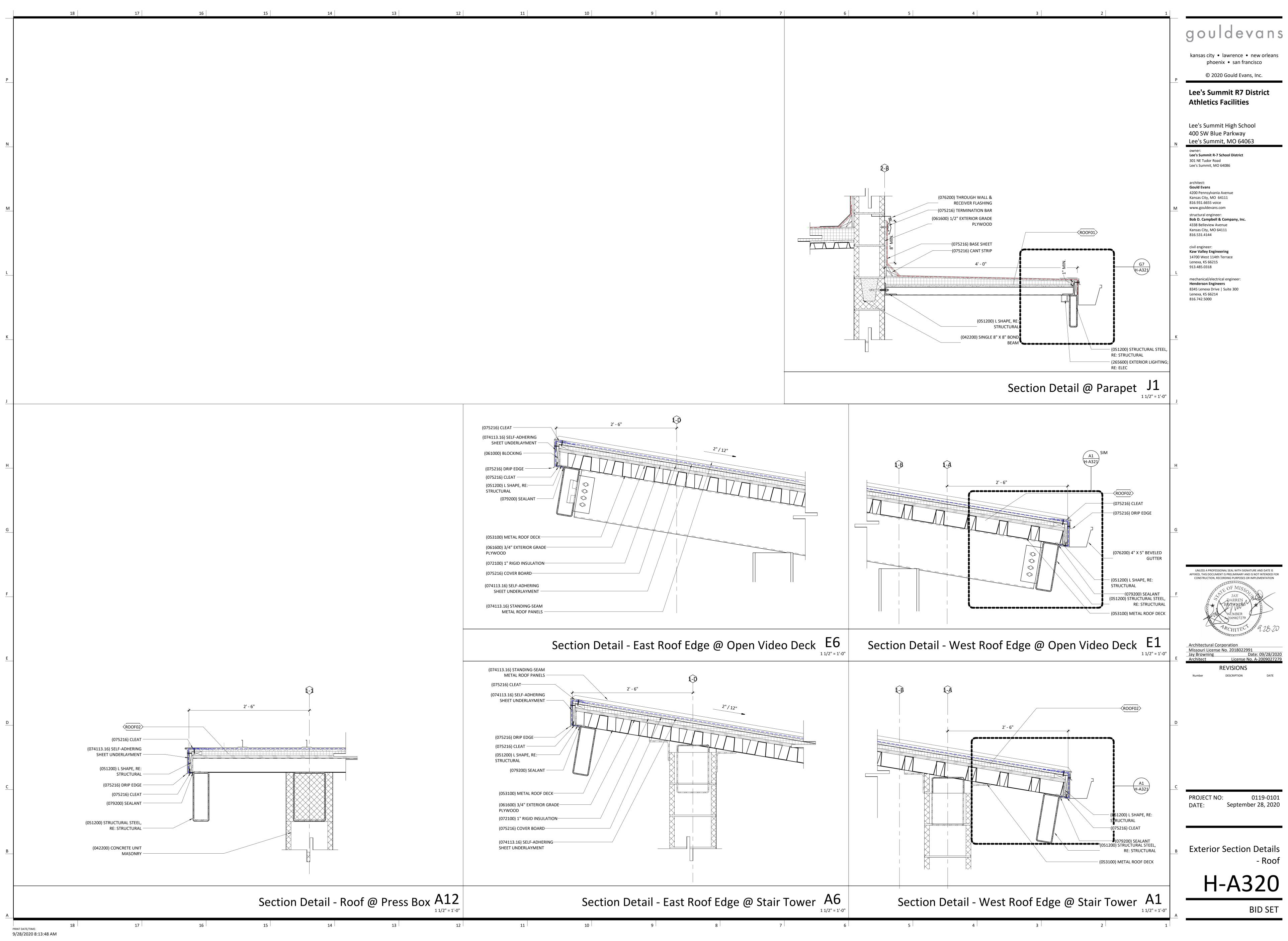




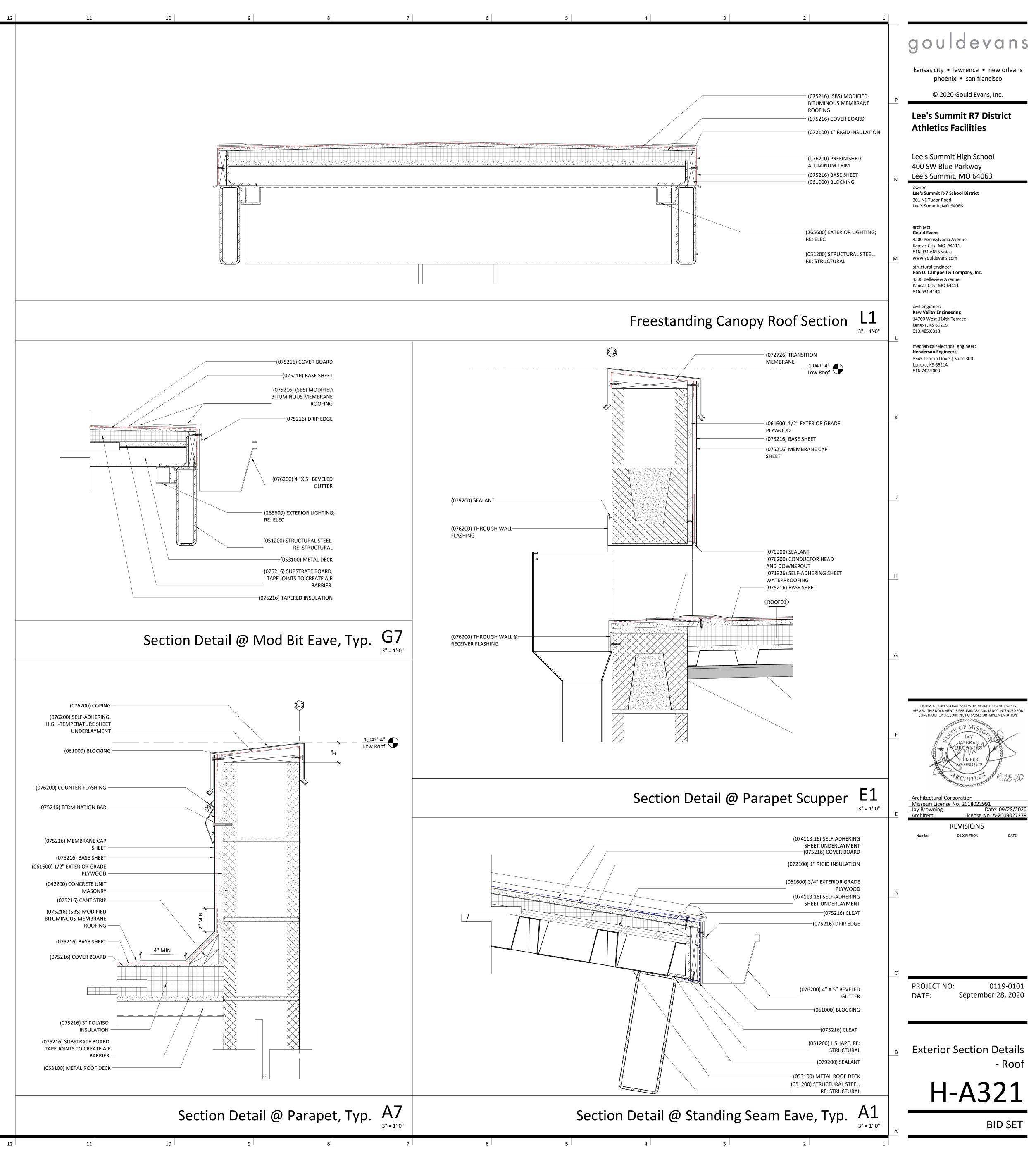
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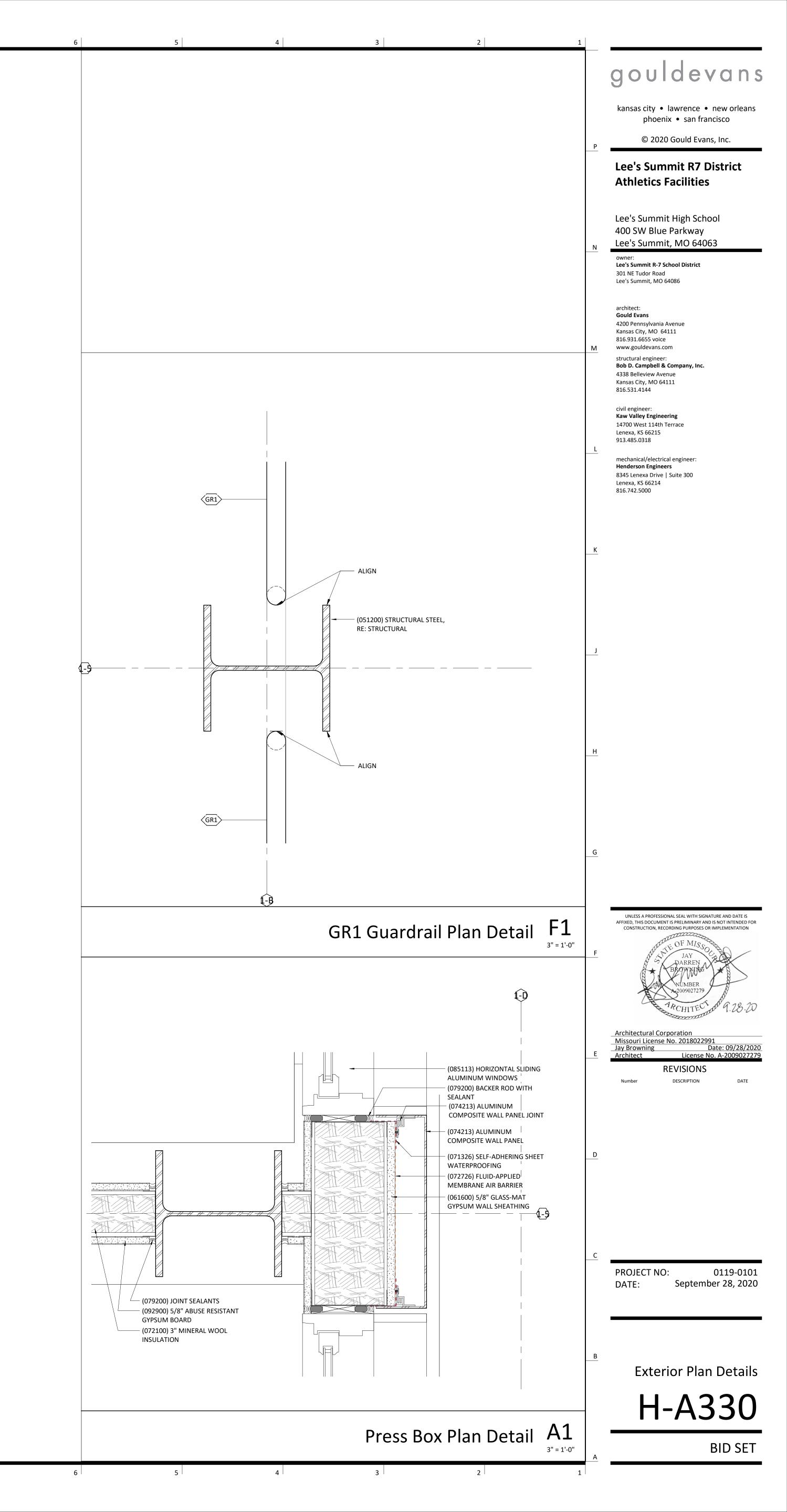


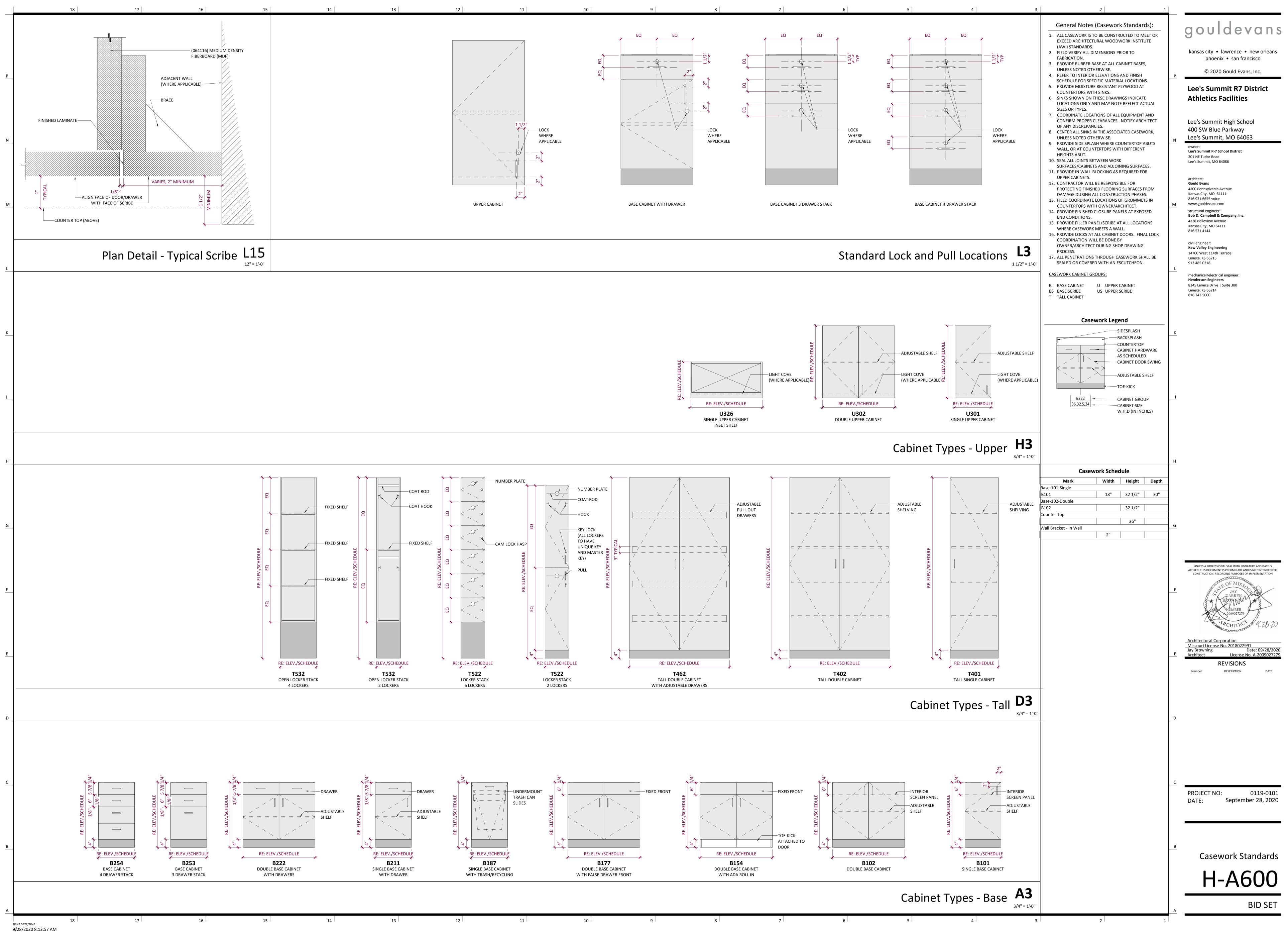
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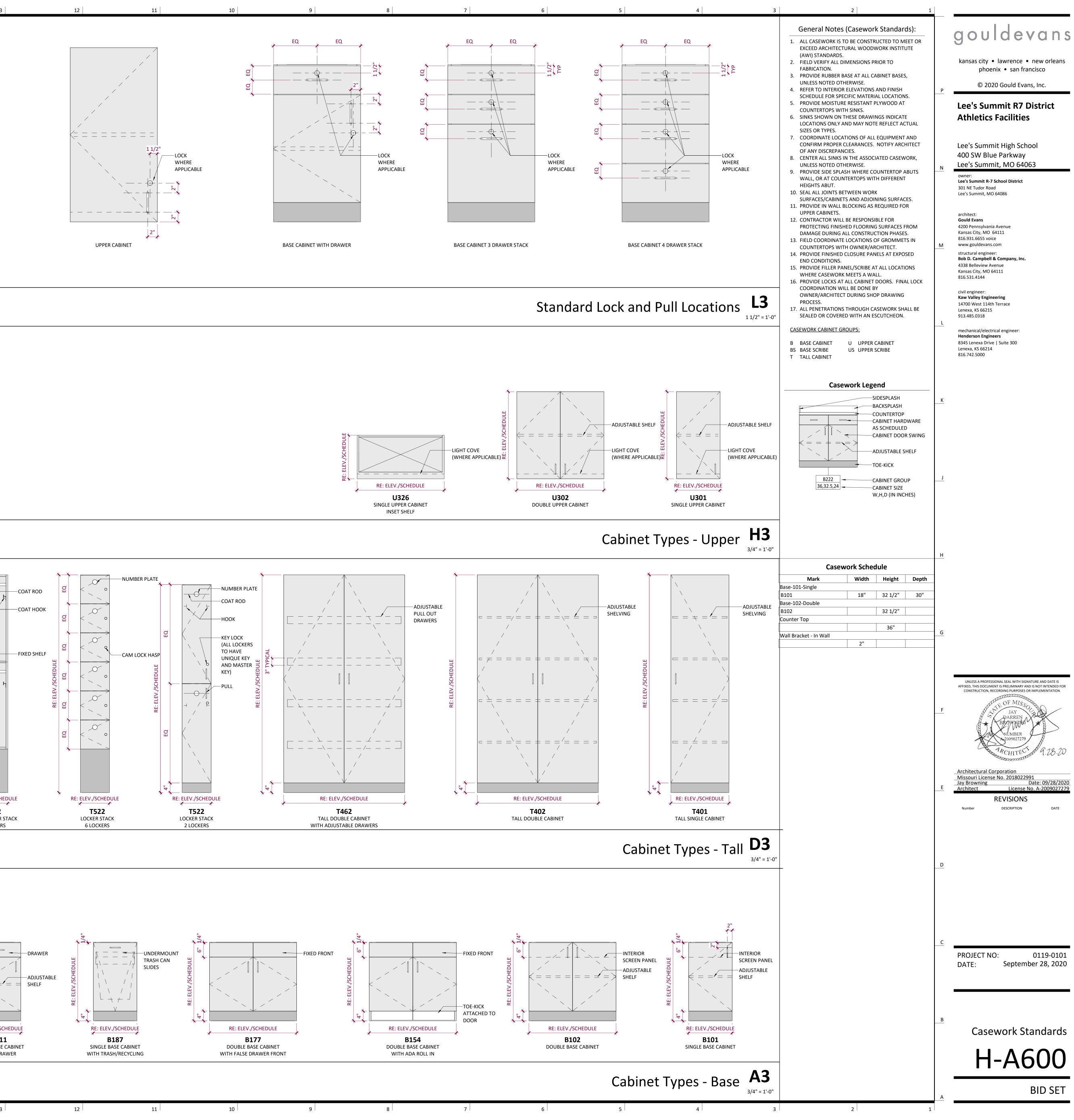


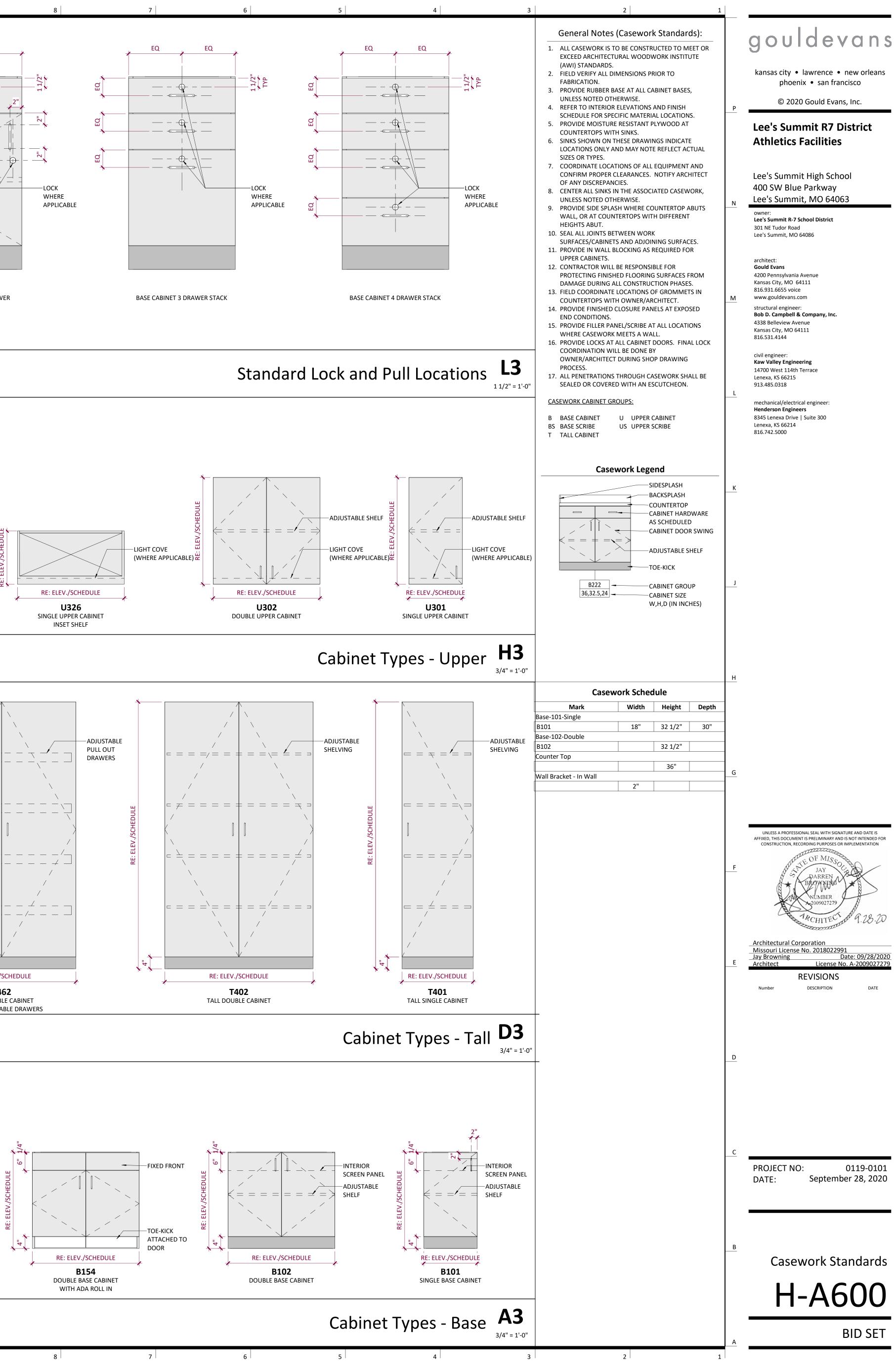
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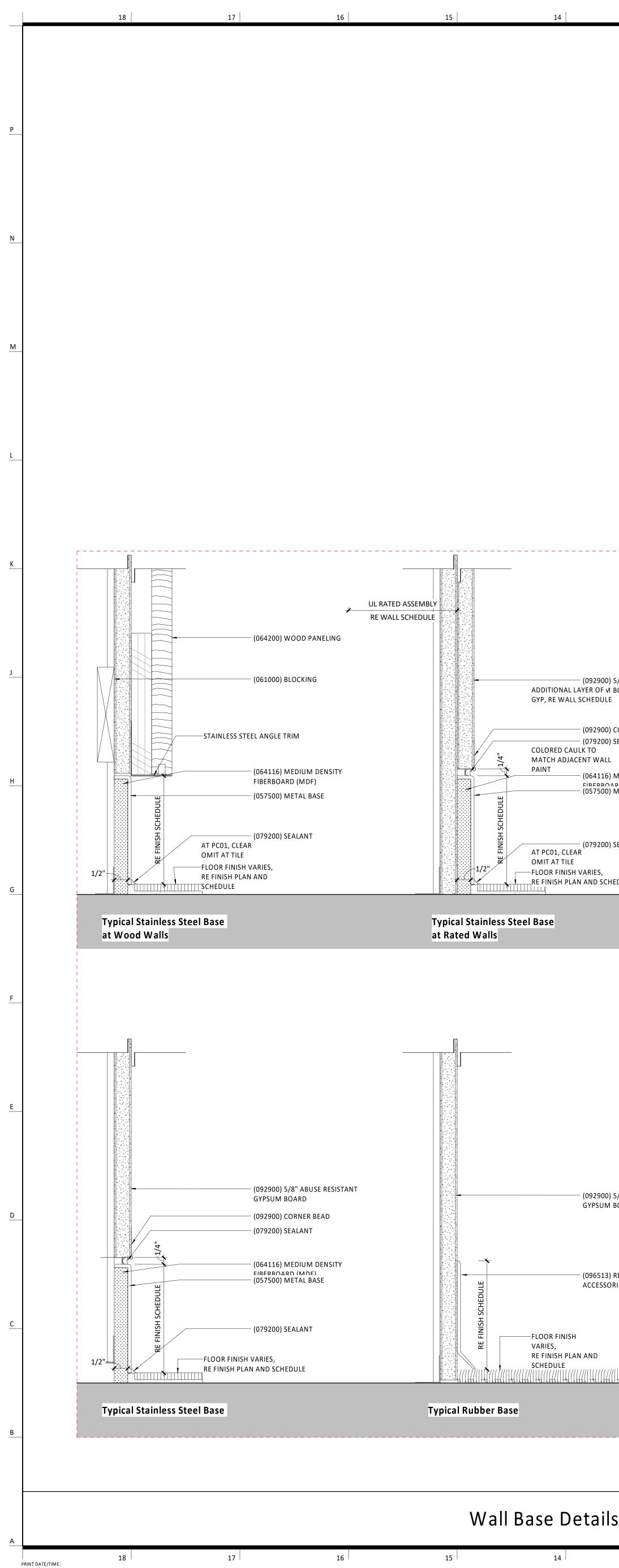
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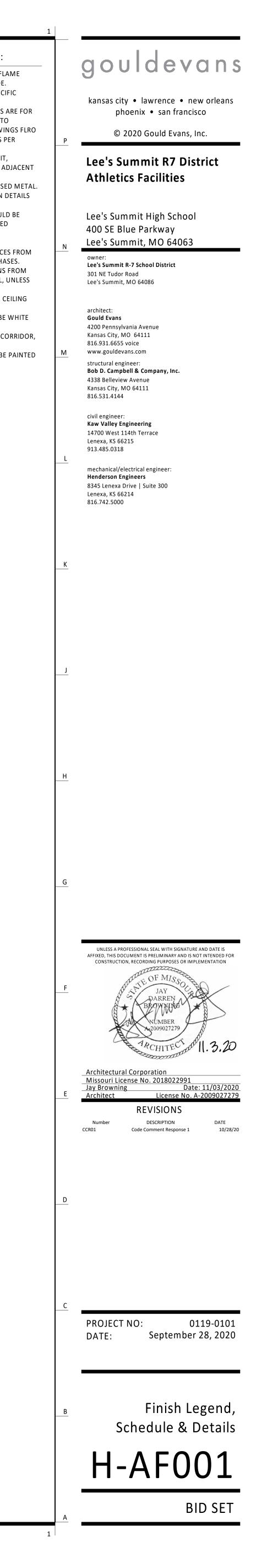


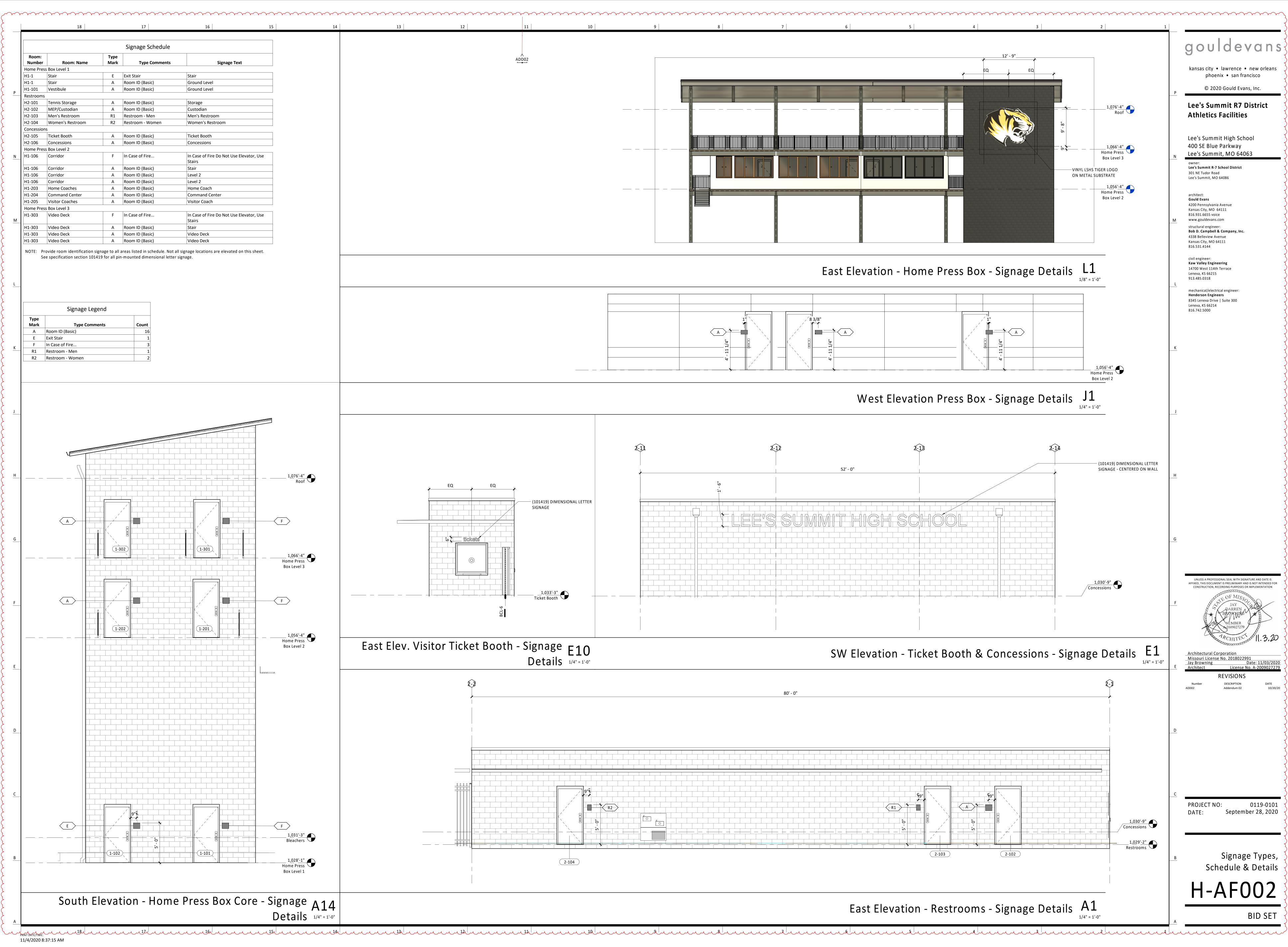


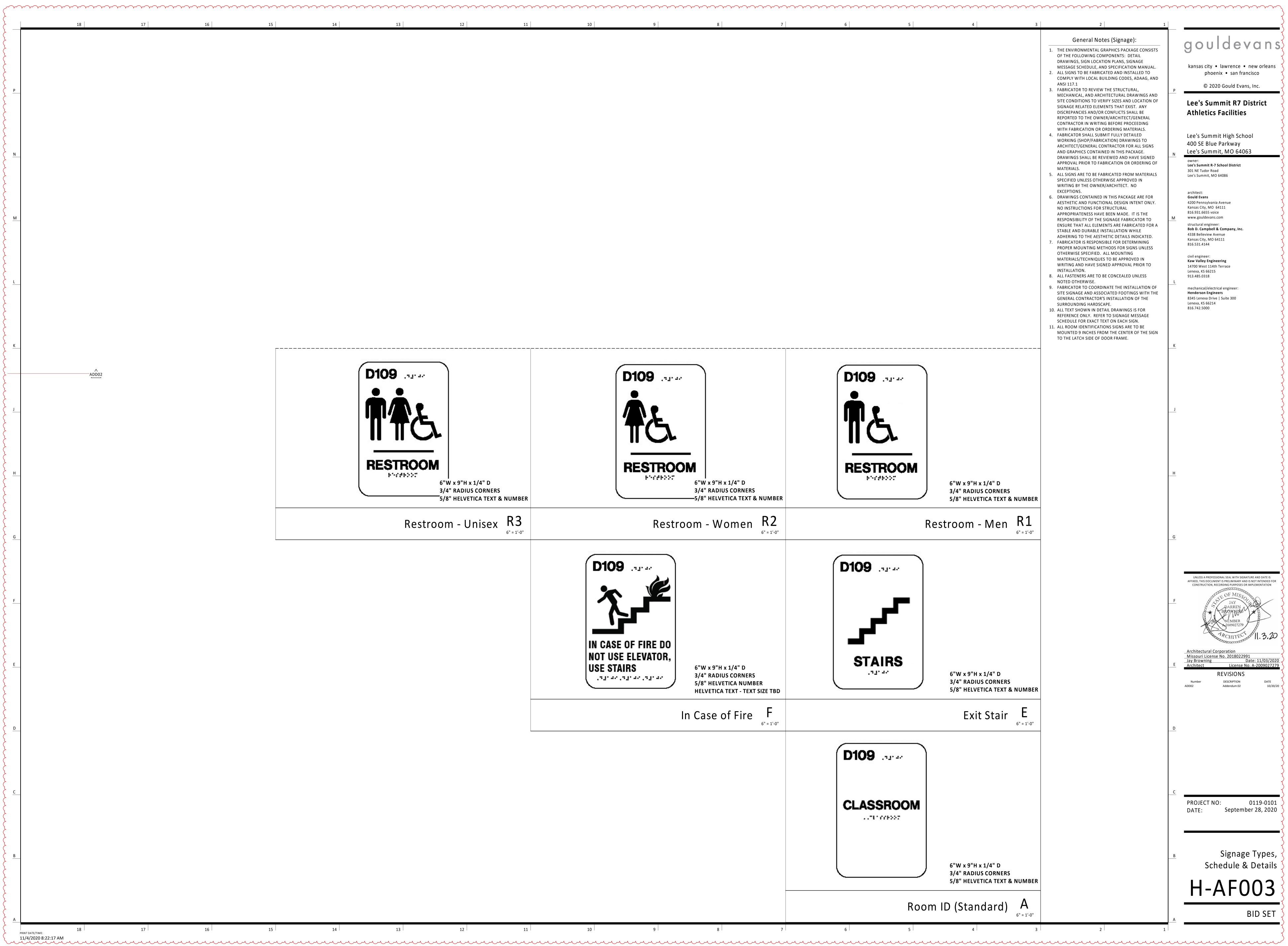


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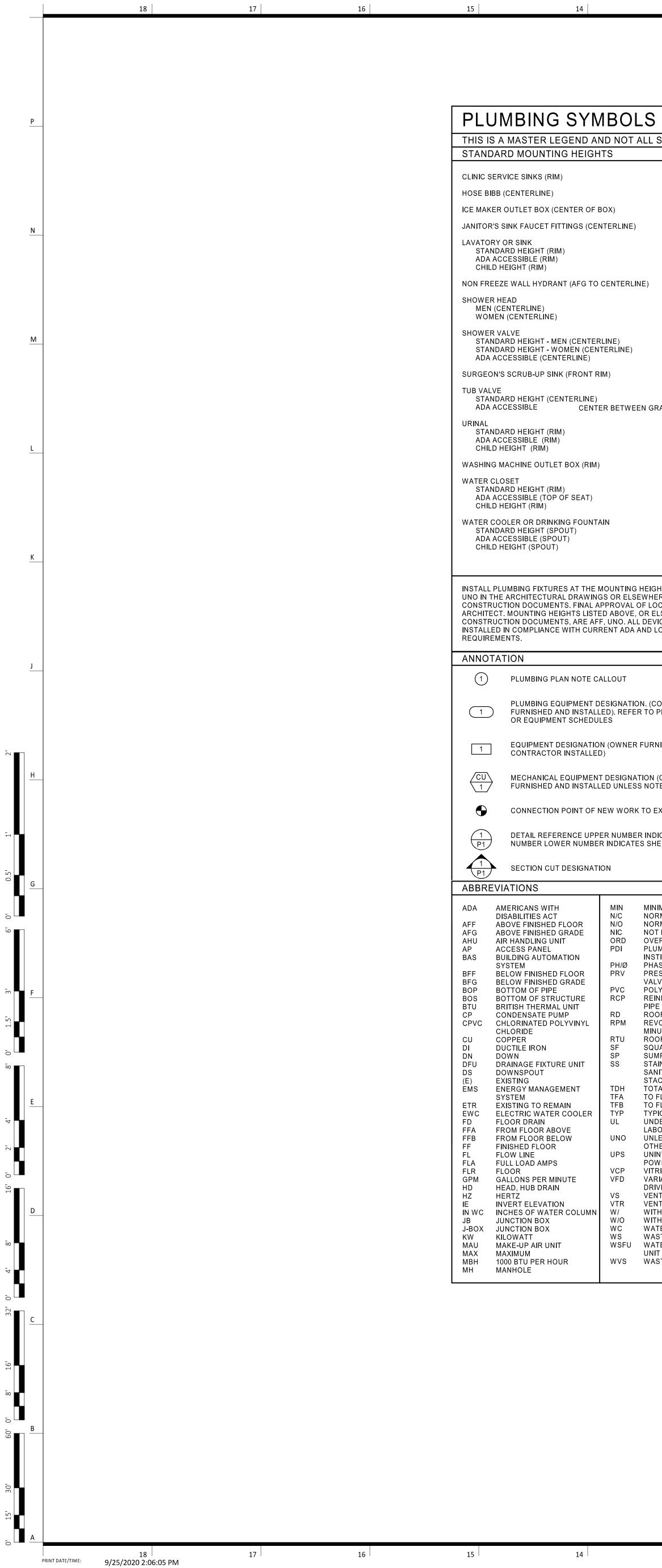
Mark	Manufacture	er		Finis	sh Legend - Inter Model	iors	Comments	Latest Revision		General Notes (Fi
CC01	N-PLACE CONCRETE EXPOSED CAST IN PLACE CONCRETE					CONCRETE WITH CURE AN	D SEALING COMPOUND			<ol> <li>ALL FINISH MATERIALS MUST M SPREAD RATINGS PER THE BUILD</li> <li>REFER TO INTERIOR ELEVATIONS</li> </ol>
042000 CONCR	EXPOSED CAST IN PLACE CONCRETE RETE MASONRY UNITS				<u> </u>	CONCRETE WITH (071800)				MATERIAL LOCATIONS. 3. REFERENCED FLOOR/WALL/CEIL
CMU2	TRENWYTH INDUSTRIES TRENWYTH INDUSTRIES			WEST SLATE - 12" WEST SLATE - 8" x		TRENDSTONE, SOLOMON TRENDSTONE, SOLOMON				TOP FINISH LAYER DETAILS ONL ARCHITECTURAL AND STRUCTUI FLOOR/WALL CEILING ASSEMBL
01	IOR ARCHITECTURAL WOODWORK			TE MELAMINE MICA COMPACT -	MATTE FINISH - TERR	IL 2297				LOCATION. 4. PAINT ALL EXPOSED DUCTWORK
113 STANDI	DING SEAM METAL ROOF PAC-CLAD			P-CLAD-CITYSCAPE		-				ELECTRICAL EQUIPMENT, ETC TO SURFACES. 5. PAINT ALL NON-FACTORY FINISH
4213.23 MET	TAL COMPOSITE MATERIAL WALL PANELS	S		-3000 RS COMPOS			METAL SAMPLE, PROVIDE CUST	OM		<ol> <li>REFER TO TYPICAL FLOORING TF FOR ALL FLOORING MATERIALS.</li> <li>FLOORING TRANSITIONS AT DOOR</li> </ol>
88000 GLAZIN						COLOR IF REQUIRED				LOCATED UNDER THE DOOR IN THE DOOR IN THE DOOR IN THE POSITION, UNLESS NOTED OTHE
GL01 GU01				CLEAR (Tempered	d)					8. CONTRACTOR WILL BE RESPONS PROTECTING FINISHED FLOORIN DAMAGE DURING ALL CONSTRU
ACT01	STICAL PANEL CEILINGS USG USG				EATED WITH AEGIS M					9. PROVIDE BULLNOSE TRIM AT TR CERAMIC WALL TILE TO OTHER
096513 RESILIE	ENT BASE AND ACCESSORIES ROPPE			CHARCOAL	L CLIMAPLUS PERFOR	MANCE COLOR: WHITE, SIZE: 24" >	. 24" x 1", EDGE: SQ			NOTED OTHERWISE. 10. REFER TO REFLECTED CEILING F HEIGHTS.
099123 INTERIO				WBOUND 7W700	4					11. ALL ELECTRICAL DEVICE COVER UNLESS NOTED OTHERWISE.
H-PT02	SHERWIN WILLIAMS SHERWIN WILLIAMS		RGB -	- R197 G179 B10 PERCORN SW7674	)5	MATCH SCHOOL COLOR - V ALL EXPOSED STRUCTURE				12. CARPET PATTERNS TO RUN PAF UNLESS NOTED OTHERWISE.
H-PT04	SHERWIN WILLIAMS SURFACE COUNTER TOPS			IMIT GRAY SW766						13. ALL HOLLOW METAL DOOR FF TO MATCH ADJACENT WALL CO
				Finish	Schedule					
	NumberRoom Name11-1Stair	Floor CC01	<b>Base</b> None	Wall H-CMU1	Ceiling OTS/H-PT04	Comments				
H1- H1-	-101 Vestibule -102 Elevator	CC01 N/A	RB01 None	H-CMU1 N/A	OTS/H-PT04 N/A	RB01 on Elevator shaft wall				
H1-	-106 Corridor -201 Vestibule	CC02 CC01	None None	N/A H-CMU1	OTS/H-PT02 OTS/H-PT04	Traffic Coating 071800 - Exposed structure to	be painted H-PT03	_		
H1-	-203 Home Coaches -204 Command Center	CC01 CC01	RB01 RB01	H-PT01 H-PT01	ACT01 ACT01	Exposed structure to be painted H-PT03 Exposed structure to be painted H-PT03		_		
H1-	205 Visitor Coaches 301 Vestibule 303 Video Deck	CC01 CC01 CC02	RB01 None None	H-PT01 H-CMU1 N/A	ACT01 OTS/H-PT02 OTS/H-PT02	Exposed structure to be painted H-PT03 Traffic Coating 071800; Underside of roof dec	k to be painted H. PTO?	_		
	2-101 Tennis Storage	CC02	None	H-CMU1	OTS/H-PT02	Exposed structural beams and columns to be		_		
H2-	P-102 MEP/Custodian P-103 Men's Restroom	CC01 CC01	None None	H-CMU1 H-PT04	OTS/H-PT04 ACT01			_		
H2-	2-104 Women's Restroom 2-105 Ticket Booth	CC01 CC01	None None	H-PT04 H-PT01	ACT01 ACT01			_		
	2-106 Concessions 2-107 Storage	CC01 CC01	None None	H-PT04 H-CMU1	ACT02 OTS/H-PT04			_		
	-108 MEP	CC01	None	H-CMU1	OTS/H-PT04					
H2-	2-109 Storage	CC01	None	H-CMU1	OTS/H-PT04			_		
H2- H3- H4-	2-109Storage3-101Visitor Ticket Booth1-101Visitor Pressbox Level 1	CC01 CC01 Existing	None None Existing	H-CMU1 H-PT01 Existing	OTS/H-PT04 ACT01 Existing					
H2- H3- H4- H4- H4-	2-109Storage3-101Visitor Ticket Booth1-101Visitor Pressbox Level 11-201Visitor Pressbox Level 21-301Visitor Pressbox Level 3	CC01 CC01 Existing Existing Existing	None None Existing Existing Existing	H-CMU1 H-PT01	OTS/H-PT04 ACT01					
H2- H3- H4- H4- H4- NOTE: A	P-109StorageS-101Visitor Ticket BoothI-101Visitor Pressbox Level 1I-201Visitor Pressbox Level 2	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
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H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
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H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
ANT	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
ANT	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
ANT	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
H2- H3- H4- H4- H4- NOTE: A	P-109       Storage         8-101       Visitor Ticket Booth         1-101       Visitor Pressbox Level 1         1-201       Visitor Pressbox Level 2         1-301       Visitor Pressbox Level 3         ALL PAINT LOCATED IN WET AREAS TO BE	CC01 CC01 Existing Existing Existing EXisting EXISTING EXISTING	None None Existing Existing Existing PAINT.	H-CMU1 H-PT01 Existing Existing Existing	OTS/H-PT04 ACT01 Existing Existing					
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13	12	11	10	9	8	



BOLS				
NOT ALL SYMBOLS OR ABB	REVIATIONS ARE US	ED		V2.02
	PIPING SYMBOLS		PIPING LINETYI	PES
30"	· · · · ·	OXYGEN OUTLET	CW	— DOMESTIC COLD WATER (CW)
		NITROUS OXIDE OUTLET	SCW	
36"		MEDICAL AIR OUTLET	——————————————————————————————————————	
) 24"	<b>_</b>	NITROGEN OUTLET		
RLINE) 42"				
31"		MEDICAL VACUUM INLET	140°—	
34"		FLOOR SINK (FS), SIZE & TYPE	T	TRAP PRIMER LINE (T)
24"		FLOOR DRAIN (FD), SIZE & TYPE	S	SOIL PIPING - ABOVE FLOOR (S)
NTERLINE) 18"	(Ô)	ROOF DRAIN (RD), SIZE & TYPE	s	SOIL PIPING - BELOW FLOOR (S)
78"	<del>بہ</del>	BALL VALVE		WASTE PIPING - ABOVE FLOOR (W)
72"	<u>گ</u>	CONTROL VALVE	w	WASTE PIPING - BELOW FLOOR (W)
E) 48"	×	SHUTOFF VALVE	GW	GREASE WASTE - ABOVE FLOOR (GW)
RLINE) 42"	N	CHECK VALVE	— — GW — -	GREASE WASTE - BELOW FLOOR (GW)
38" TO 48"		BALANCING VALVE WITH PRESSURE POI	RTSCGWV	
35"			Cwv	
32"				
BETWEEN GRAB BAR AND TUB RIM		STRAINER	ST	STORM DRAIN - ABOVE FLOOR (ST)
- <i></i>		STRAINER WITH BLOWOFF		
24" 17"	<del>4**</del>	RELIEF/SAFETY VALVE	OST	OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)
14"	——————————————————————————————————————	SOLENOID VALVE	— — VBG — ·	VENT BELOW GRADE (VBG)
42"	│ <u> </u>	PRESSURE REDUCING VALVE		VENT BELOW FLOOR (VBF)
15"	&	GAS PRESSURE REGULATOR	ID	INDIRECT DRAIN (ID)
17" TO 19"		THERMOSTATIC MIXING VALVE	CDH	
10"		PIPE ANCHOR	CD	- CONDENSATE DRAIN (CD)
41"	EJ	EXPANSION JOINT	ACD	- AUXILIARY CONDENSATE DRAIN (ACD)
36" 30"				
	 ø	BACKFLOW PREVENTER	SPD	SUMP OR SEWAGE PUMP DISCHARGE (SPD)
	- <u> </u>	PRESSURE GAUGE	G	- NATURAL GAS (G)
INTING HEIGHTS SHOWN ABOVE	<u> </u>	THERMOMETER	— — -G- — ·	— NATURAL GAS ON ROOF (G)
DR ELSEWHERE IN THE ROVAL OF LOCATIONS BY		UNION	MPG	— MEDIUM PRESSURE NATURAL GAS (MPG)
NOVE, OR ELSEWHERE IN THE		FLANGE CONNECTION	— — MPG — -	— MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
T ADA AND LOCAL	+	HOSE BIBB (HB)	NPW	NON-POTABLE WATER (NPW)
	+	NON-FREEZING WALL HYDRANT (NW)	LPG	
	- ^	MANUAL / AUTOMATIC AIR VENT OR VAC	UUM RELIEF WS	
DUT		VALVE	FP	FIRE PROTECTION (FP)
	<u> </u>	PRESSURE / VACUUM SWITCH	PD	
GNATION. (CONTRACTOR ). REFER TO PLUMBING FIXTURE	i	CLEANOUT		CONDENSATE PUMP DISCHARGE (PD)
		САР	VV	
	୍ଚ୍ୟ	WALL CLEANOUT (WCO)	AW	ACID WASTE - ABOVE FLOOR (AW)
OWNER FURNISHED,	D .	FLOOR CLEANOUT (FCO)	— — AW — -	ACID WASTE - BELOW FLOOR (AW)
			AV	- ACID VENT (AV)
ESIGNATION (CONTRACTOR UNLESS NOTED OTHERWISE)	O	EXTERIOR CLEANOUT (ECO)	GWS	GRAY WATER (GWS)
,	ło	ELBOW UP	CA	COMPRESSED AIR (CA)
WORK TO EXISTING	G+	ELBOW DOWN	———МА-———	— MEDICAL AIR (MA)
		TEE UP	MV	— MEDICAL VACUUM (VE)
NUMBER INDICATES DETAIL DICATES SHEET NUMBER		TEE DOWN	HE	— HELIUM (HE)
	Q	ELBOW UP WITH SHUT-OFF VALVE (SOV	)	
	ið	ELBOW DOWN WITH SHUT-OFF VALVE (S	SOV)	
	- ō	TEE UP WITH SHUT-OFF VALVE (SOV)	IV	INSTRUMENT VACUUM (IV)
/IN MINIMUM		TEE DOWN WITH SHUT OFF VALVE (SOV	) ——N2	— NITROGEN (N2)
I/C NORMALLY CLOSED	_ "A"	WATER HAMMER ARRESTER (WHA) WITH	ÝN2O	NITROUS OXIDE (N20)
NO NORMALLY OPEN NIC NOT IN CONTRACT	<b>!</b>	(A, B, C, D, & E)		- OXYGEN (O2)
ORD OVERFLOW ROOF DRAIN PDI PLUMBING DRAINAGE	•	RECIRCULATION PUMP	——————————————————————————————————————	EVAC/WAGD (EV)
INSTITUTE PH/Ø PHASE		P-TRAP	CO2	CARBON DIOXIDE (CO2)
PRV PRESSURE REDUCING VALVE		GAS COCK	AI	MEDICAL AIR INTAKE (AI)
VC POLYVINYL CHLORIDE	A	TRAP PRIMER	VE	MEDICAL VACUUM EXHAUST (VE)
RCP REINFORCED CONCRETE PIPE	<u>Δ</u>			
RD ROOF DRAIN RPM REVOLUTIONS PER	<u>∆o</u>	TRAP PRIMER WITH DISTRIBUTION UNIT	DA	— DENTAL AIR (DA)
MINUTE RTU ROOFTOP UNIT			DV	DENTAL VACUUM (DV)
SF SQUARE FEET			FW1	FILTERED WATER (FW1)
SP SUMP SS STAINLESS STEEL			FW2	FILTERED WATER W/ SCALE INHIBITOR (FW2)
SANITARY SEWER, SOIL STACK			DA	REVERSE OSMOSIS (RO)
TOTAL DYNAMIC HEAD TA TO FLOOR ABOVE			ROR	
TFB TO FLOOR BELOW	LINETYPE LEGEN	D		
JL UNDERWRITERS LABORATORIES, INC.		- AWINGS DIFFERENT LINETYPES ARE USED	IN	
JNO UNLESS NOTED	COMBINATION WITH TH	E SYMBOLS TO INDICATE THE STATUS OF I	ITEMS AS	
OTHERWISE JPS UNINTERRUPTIBLE	AND/OR ITEMS WHICH	LISHED, TO BE INCLUDED AS PART OF NEW ARE ANTICIPATED TO BE PROVIDED IN THE	FUTURE.	
POWER SUPPLY /CP VITRIFIED CLAY PIPE		USING THESE LINETYPES ARE RELATIVE TO PPEAR. PHASING SHOWN IN DRAWINGS IS		
/FD VARIABLE FREQUENCY DRIVE	INTENDED TO FULLY D	ESCRIBE ALL NECESSARY CONSTRUCTION BY THE CONTRACTOR AS PART OF THEIR		
/S VENT STACK	RESPONSIBILITIES. AN	Y SUCH PHASES DESCRIBED IN THE CONST		
/TR VENT THROUGH ROOF V/ WITH	ORDER FOR THE SAKE	ERAL AND ONLY INTENDED TO INDICATE A OF DESCRIBING THE PROJECT. THE FOLLC	DWING	
V/O WITHOUT VC WATER COLUMN	LINETYPES MAY BE US ETC.	ED ON ANY DEVICE, EQUIPMENT, NOTE, LIN	E, SHAPE,	
VS WASTE STACK VSFU WATER SUPPLY FIXTURE		Ι		
UNIT	EXISTING	NEW		
VVS WASTE VENT STACK	DEMOLISH — —			

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GE	ENERAL NOTES:
1.	PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.
2.	DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
3.	PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.
4.	INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
5.	PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
6.	VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
7.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
8.	DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
9.	INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE.
10.	VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
11.	INSTALL EXPOSED PIPING, WHERE NECESSARY, IN FINISHED AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND AS HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR PERPENDICULAR TO WALLS.
12.	INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE PIPE AND FITTINGS TO INSTALL VALVES AND APPURTENANCES AT REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
13.	INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE OR UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
14.	COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
15.	COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
16.	CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
17.	COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
18.	PAINT ALL EXPOSED WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.
19.	COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
20.	INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
21.	PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
22.	PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTION OF PVC DWV TO CAST IRON SANITARY, WASTE AND VENT PIPE AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION "SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" FOR MORE INFORMATION.
23.	FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5 GPM UNLESS NOTED OTHERWISE.
24.	WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
25.	PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
26.	PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVATED WATERPROOF FLOOR SLABS, REFER TO SPECIFICATIONS.
27.	PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPLY PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EACH FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPLY PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM

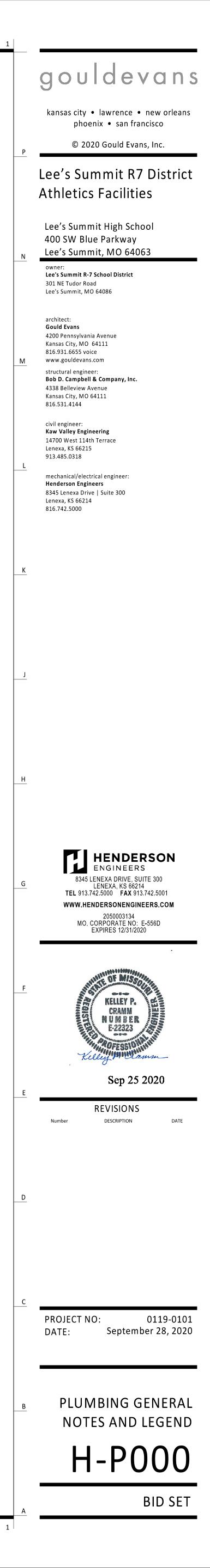
LENGTH OF TWO FEET. FOR 1/2" HOT WATER FIXTURE SUPPLY

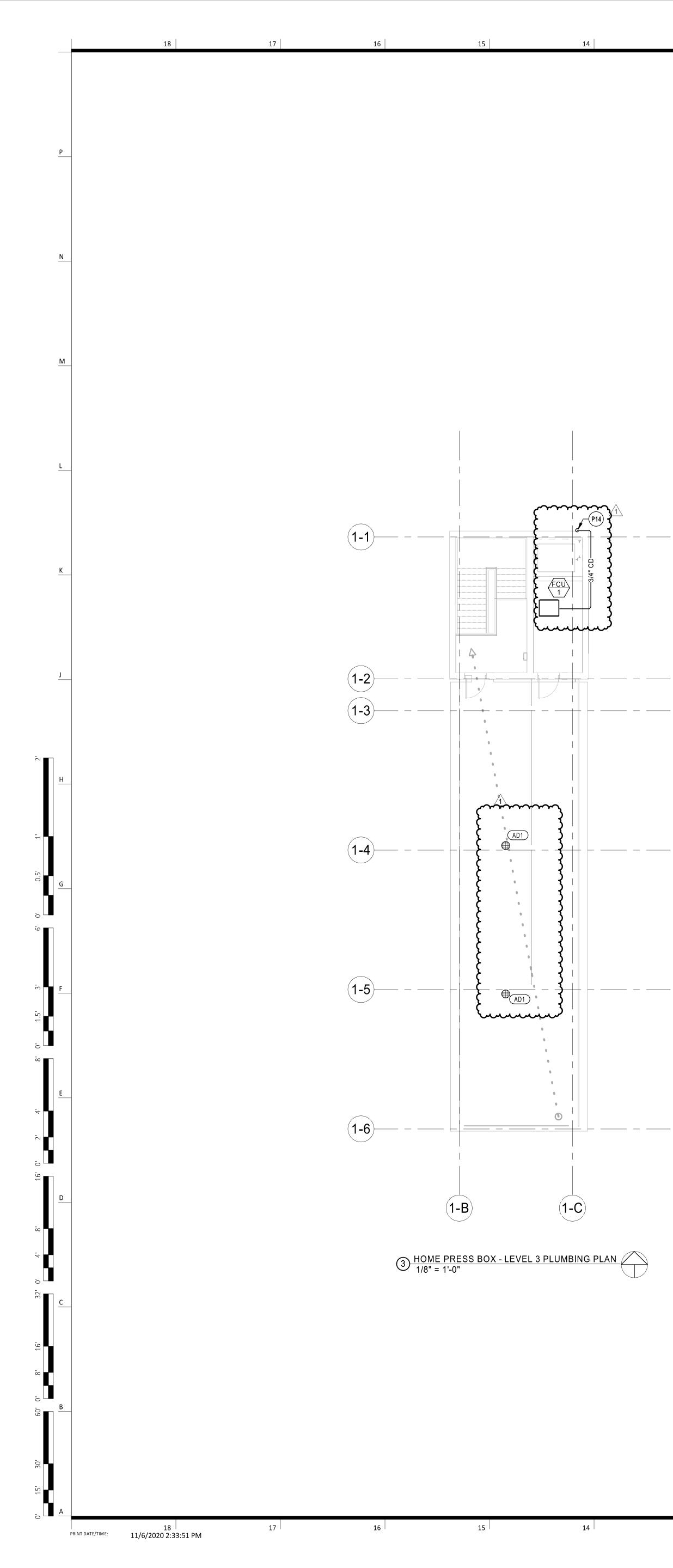
PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH

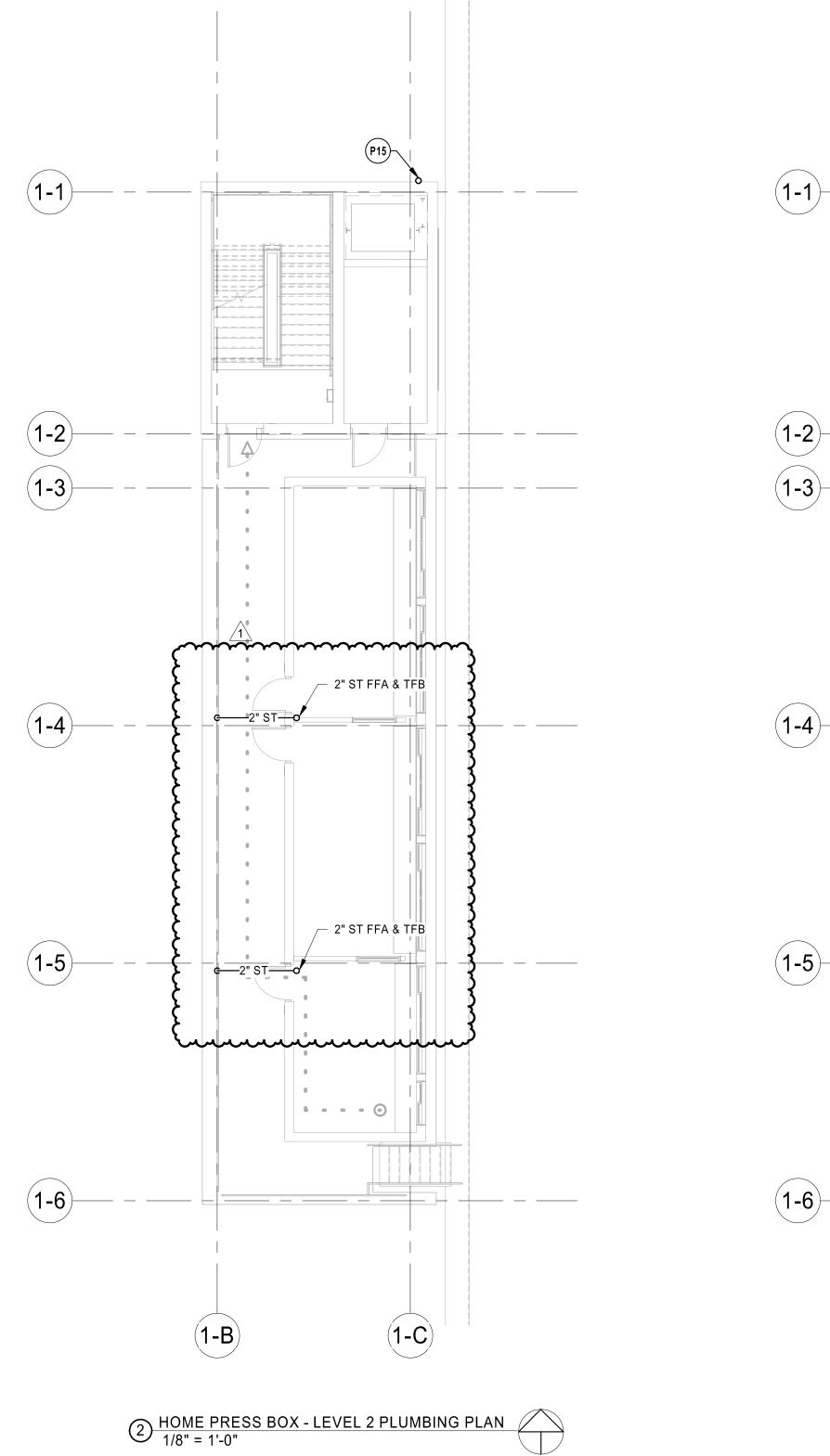
OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SIZE

TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FEET.

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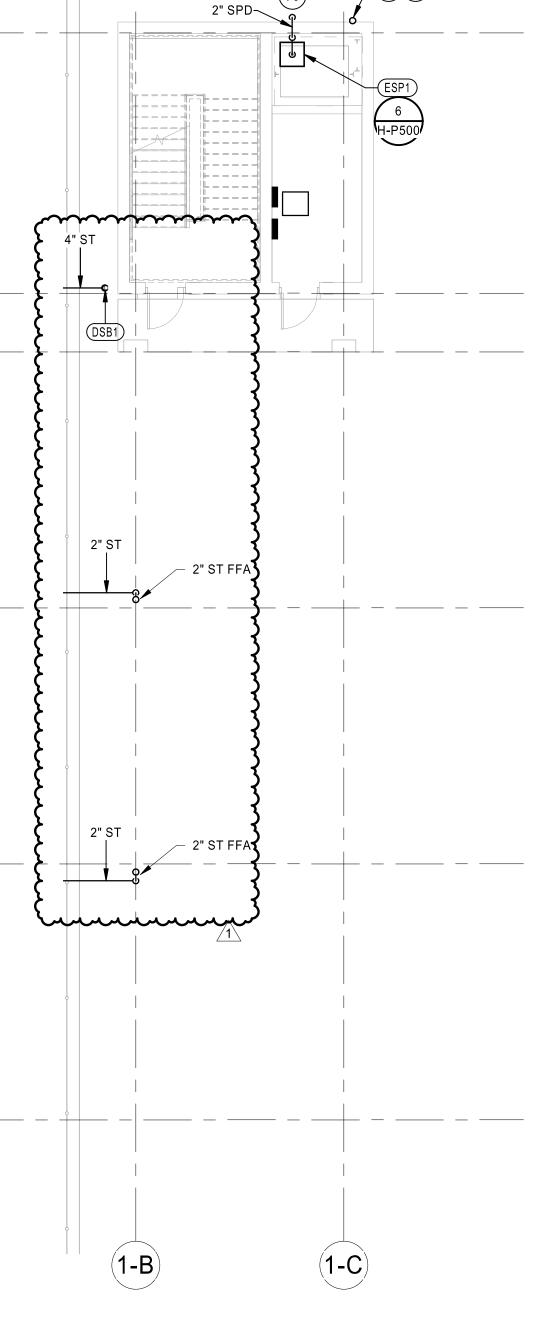




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O PLUMBING PLAN NOTES:

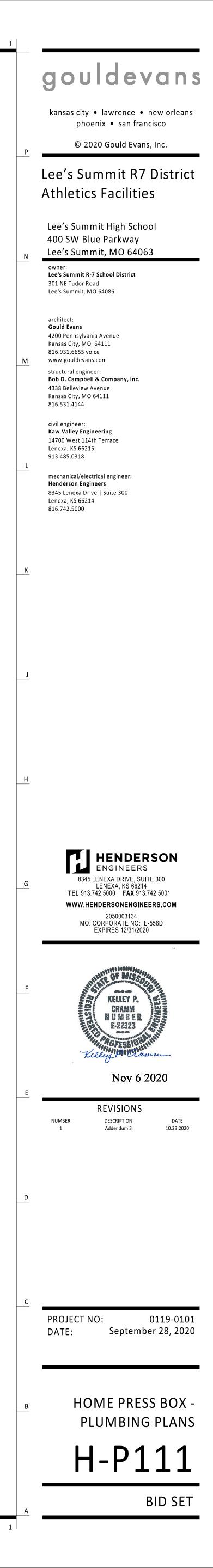
P8 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO

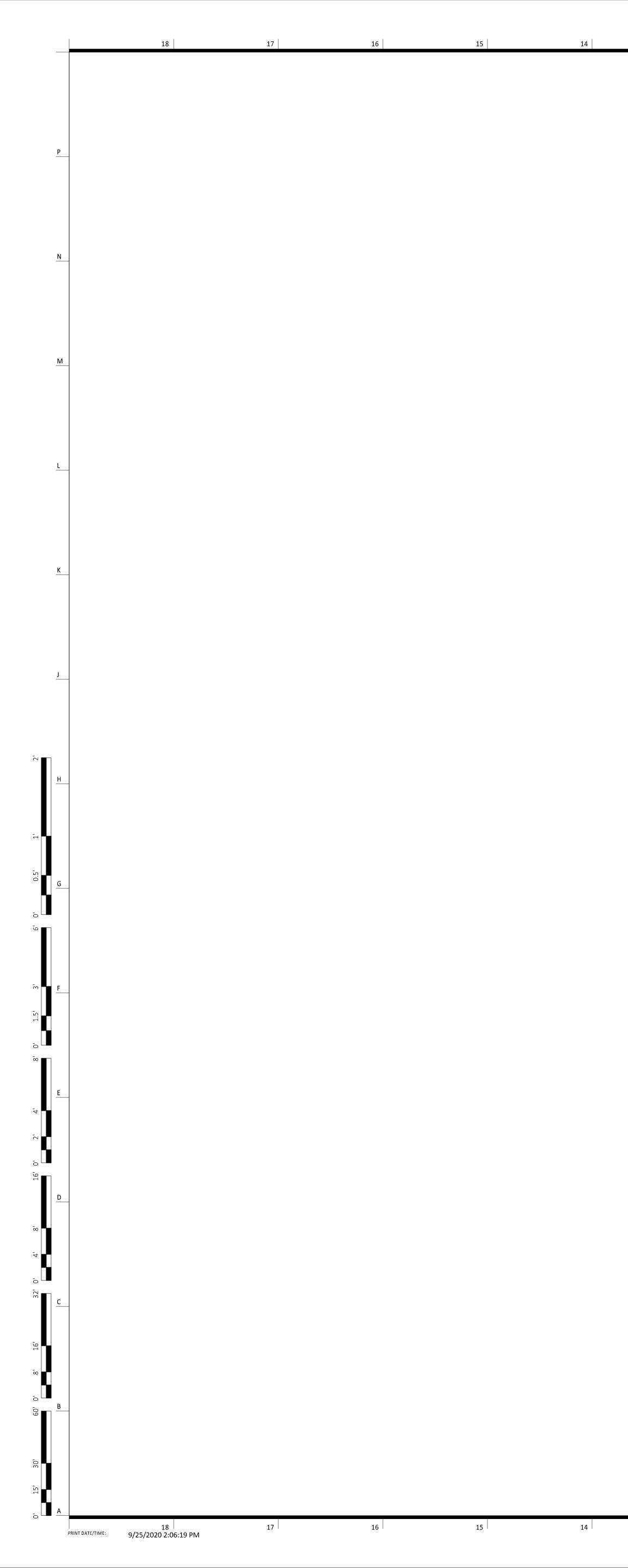
- GRADE.
- P14 3/4" CONDENSATE DRAIN TFB.
- P15 3/4" CONDENSATE DRAIN FFA AND TFB.

- P16 3/4" CONDENSATE DRAIN FFA. P17 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.

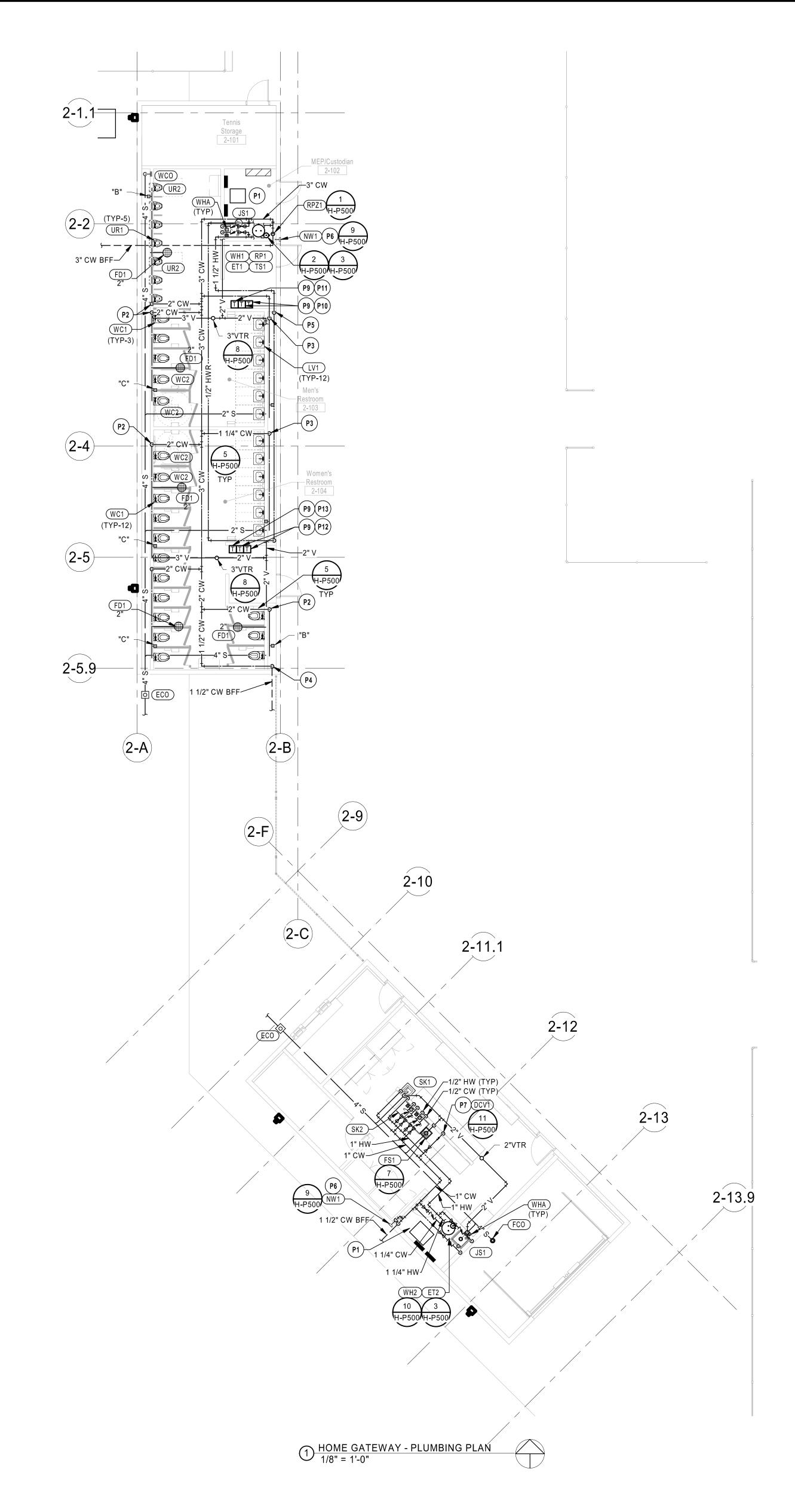
**P8** 

P16 P17



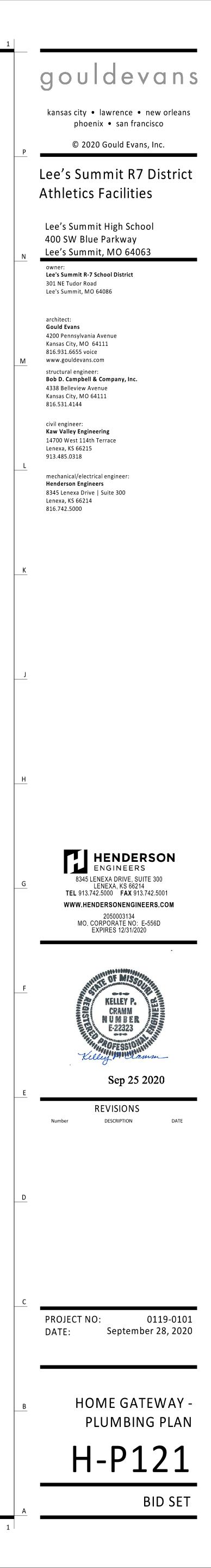


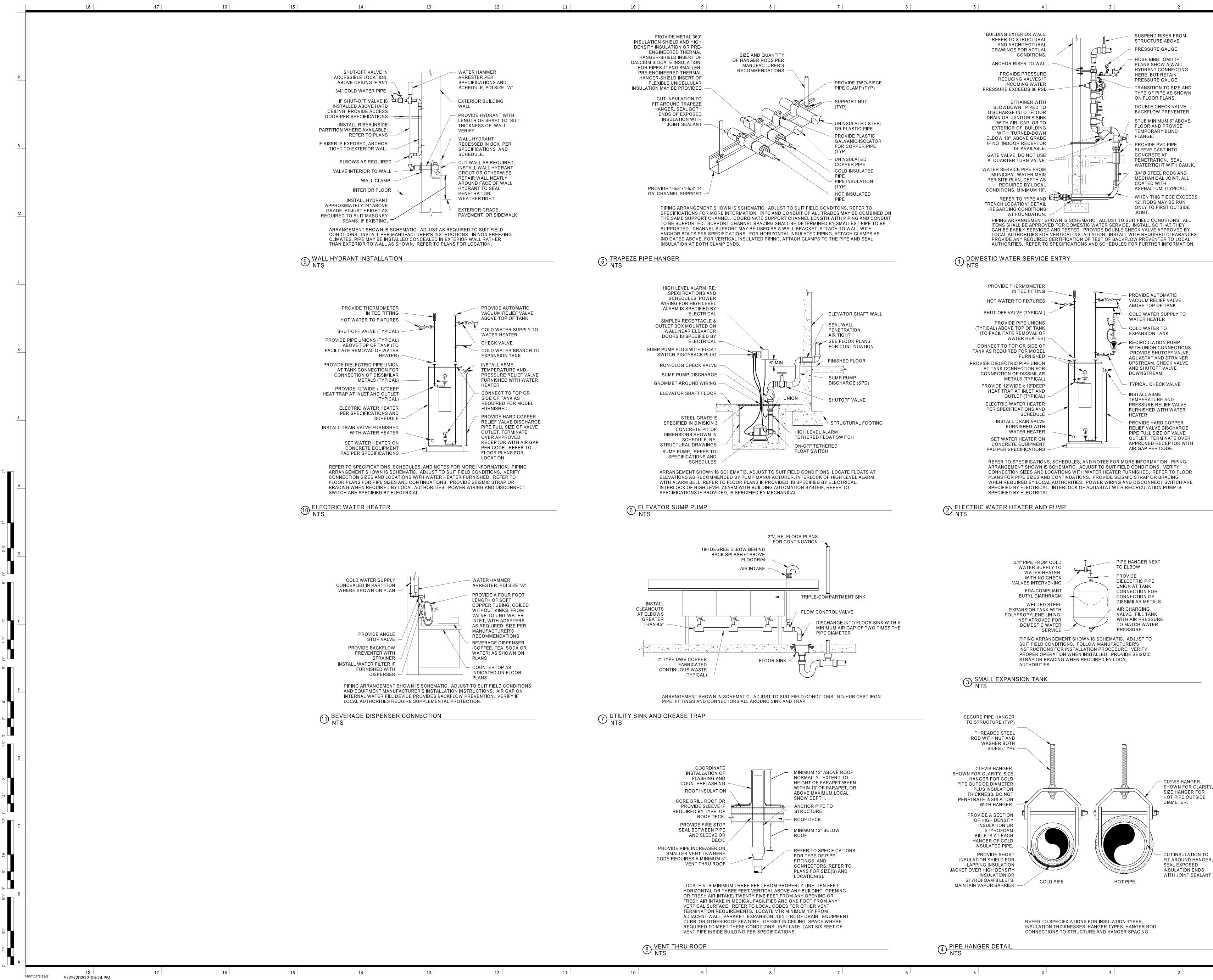


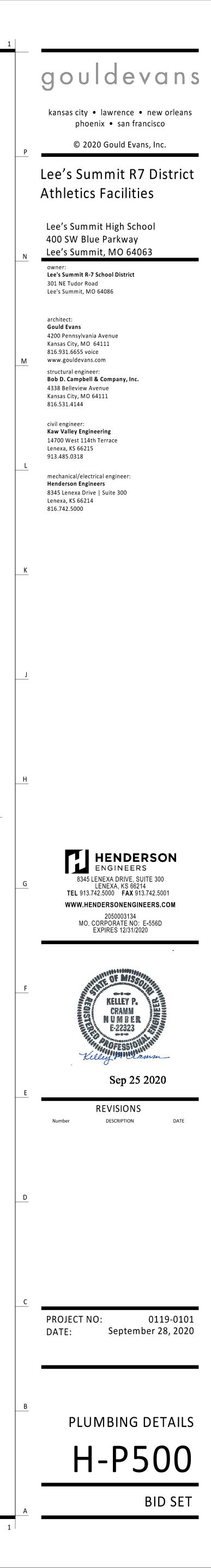


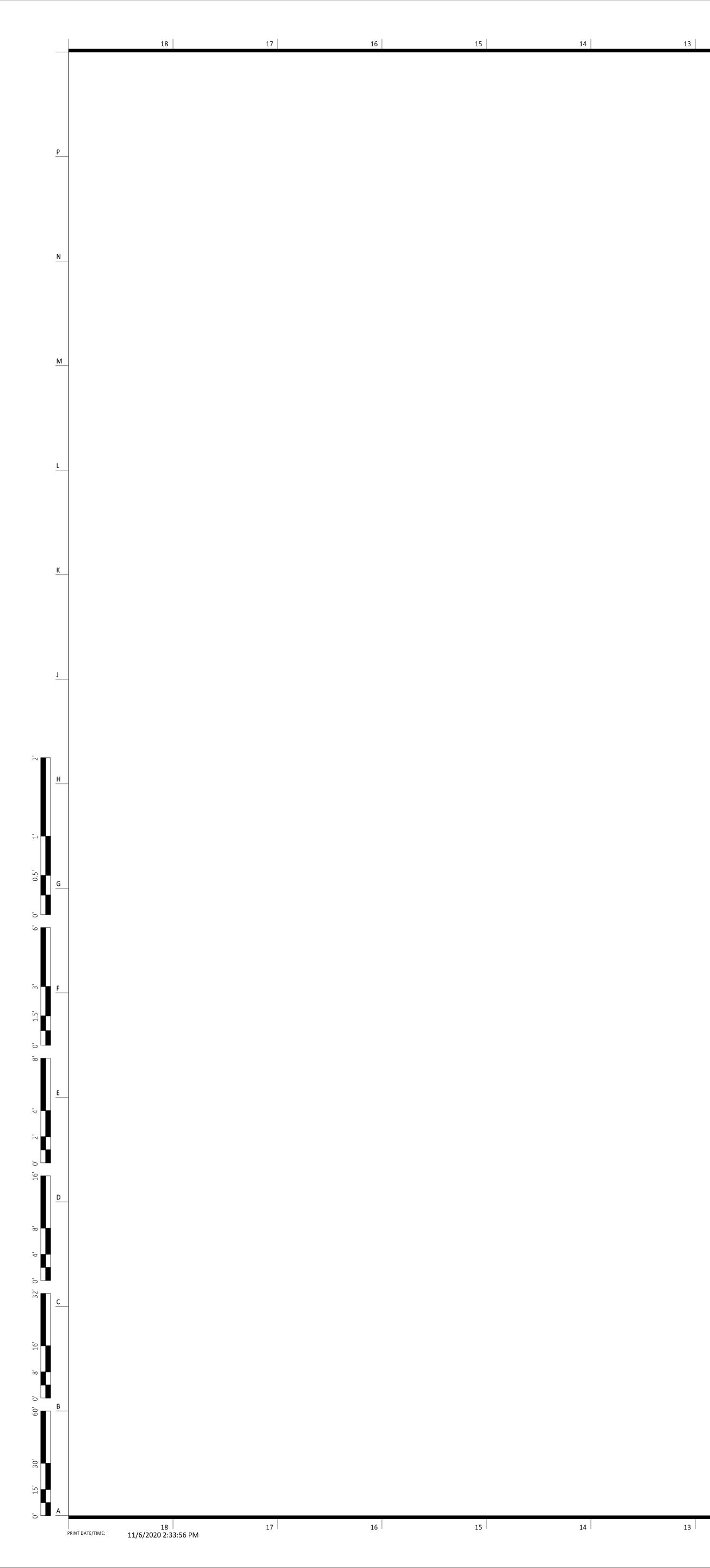
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- O PLUMBING PLAN NOTES:
- P1 DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
- P2 ROUTE 2" COLD WATER DOWN AND HEADER IN WALL.
  P3 ROUTE 1-1/4" COLD WATER DOWN AND HEADER IN WALL.
  P4 ROUTE 1-1/2" COLD WATER DOWN IN WALL TO BELOW GRADE TO SERVE CONCESSION STAND. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- P5 ROUTE 1-1/4" HOT WATER DOWN AND HEADER IN WALL.
  P6 WALL HYDRANT TO BE USED FOR BUILDING DRAIN DOWN.
  P7 ROUTE 1/2" COLD WATER DOWN IN WALL FOR HOT CHOCOLATE MAKER CONNECTION.
- P9 LOCATE TRANSFORMER "T" ABOVE CEILING IN AN ACCESSIBLE LOCATION. REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION.
- P10 TRANSFORMER TO SERVE (2) WC, (2) UR AND (2) LAV IN MEN'S RESTROOM 2-103.
- P11 TRANSFORMER TO SERVE (1) WC, (3) UR AND (2) LAV IN MEN'S RESTROOM 2-103.
- P12 TRANSFORMER TO SERVE (5) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.
- P13 TRANSFORMER TO SERVE (4) WC AND (2) LAV IN WOMEN'S RESTROOM 2-104.







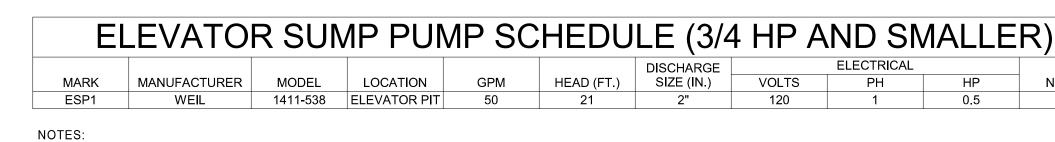


12	11	10	9	8	

	ELECTRIC STORAGE WATER HEATER SCHEDULE									
MARK	MANUFACTURER	MODEL#	AREA SERVED	TANK SIZE (GALLONS)	ELEC <sup>-</sup> VOLTS	TRICAL DAT	A KW	RECOVERY (GPH)	WEIGHT (LBS)	NOTES
WH1	A.O. SMITH	#DRE-52	RESTROOM BUILDING	50	480	3	15	66	700	А
WH2	A.O. SMITH	#DRE-52	CONCESSION BUILDING	50	480	3	18	74	700	А

NOTES:

A. 100°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE B. DUAL ELEMENT WIRED FOR SIMULTANEOUS OPERATION WITH UNBALANCED THREE PHASE CIRCUIT



A. PROVIDE WEIL #8245 FLOAT SWITCH WITH POWER CORD AND PIGGYBACK PLUG. B. PROVIDE WITH WEIL #8341K1015 HIGH LEVEL ALARM WITH AUXILIARY CONTACT, REFER TO SPECIFICATIONS.

PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZOELLER #30-0030 FLAPPER NON-CLOG CHECK VALVE. D. REFER TO DETAIL FOR MORE INSTALLATION INFORMATION.

E. INSTALL IN 24"SQUARE x 24" DEEP SUMP PIT LOCATED IN ELEVATOR PIT, SEE ARCHITECTURAL DRAWINGS.

PLUMBING EXPANSION TANK SCHEDULE								
MARK	MANUFACTURER	MODEL	TANK SIZE (GALLONS)	MIN. ACCEPTANCE VOLUME (GALLONS)	SERVICE	WEIGHT (LBS)	NOTES	
ET1	AMTROL	ST-5	2	0.9	WH1	22	А	
ET2	AMTROL	ST-5	2	0.9	WH2	22	А	

A. CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE.

	RECIRCULATION PUMP SCHEDULE									
					HEAD	CONNECTION	ELECTF	RICALI	DATA	
MARK	MANUFACTURER	MODEL	LOCATION	GPM	(FT.)	SIZE	VOLTS	PH	HP	NOTES
RP1	BELL & GOSSETT	NBF-9U	MEP/CUSTODIAL	1	7	3/4"	120	1	1/18	A, B, C, D

NOTES:

NOTES:

A. ALL LEAD FREE CAST BRONZE BOOSTER. B. PROVIDE WITH STRAINER UPSTREAM OF PUMP.

C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C. D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10°F BELOW SET POINT.

FIXTURE BRANCH CONNECTION SCHEDULE								
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT				
FLOOR DRAIN			2"	2"				
JANITOR'S SINK	1/2"	1/2"	3"	2"				
LAVATORY/HAND SINK	1/2"	1/2"	2"	1 1/2"				
SINK	1/2"	1/2"	2"	2"				
URINAL	1"	1"	2"	2"				
WATER CLOSET (FLUSH VALVE)	1 1/4"		4"	2"				

NOTE: PIPE SIZES SHOWN ARE MINIMUM.

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	PLUM	BING FIXTURE SCHEDULE
	PLUMBING (	N THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER CATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS.
	AND INSTAL	UGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS LL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE 'URAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.
		UMBING FIXTURE SCHEDULE
		AREA DRAIN: JAY R. SMITH # 2120L (-M), CAST IRON BODY, HEAVY-DUTY, 8" DIAMETER, DUCTILE IRON GRATE, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OR CAULK OUTLET OF SIZE AS SHOWN ON PLANS.
		DUAL CHECK VALVE WITH ATMOSPHERIC PORT: WATIS# SD-3, MEETING ASSE 1022 AND NSF 18, 316 STAINLESS STEEL BODY, 3/8" INLET AND OUTLET, ATMOSPHERIC PORT, AND WYE PATTERN STRAINER. PROVIDE 3/4" INDIRECT DRAMAFROMATMOSPHERIC RORT AND DISCHARCE TO BRAIN WITH A B-GAR
	DSB1	DOWNSPOUT BOOT: JAY R. SMITH # 1785-24, 24" LONG CAST IRON BODY WITH CAST IRON SECURING STRAPS, 4" x 3" RECTANGULAR INLET, 2" CLEANOUT PLUG, AND 4" DIAMETER OUTLET.
<b>≺)</b> NOTES	ECO.	FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR
A-E	FCO	INSTALLATION. FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP. # 4031L (-F-C), SCORIATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR, APPLICATION(S), # 4031L (-F-C-Y), STAINLESS STEEL MARKER FOR INSTALLATION IN CARPETED FLOOR AREA(S), # 4151 (-F-C), 1/8" RECESS
	FD1	FOR INSTALLATION IN CARFETED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S). REFER TO SPECIFICATIONS FOR INSTALLATION. FLOOR DRAIN: JAY R .SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. USE PUSH-ON
		JOINT OF OUTLET SIZE AS SHOWN ON PLANS. TRAP SEAL: PROVIDE TRAP SEAL PER SPECIFICATIONS FOR ACTUAL FLOOR DRAIN MODEL AND SIZE.
	FS1	FLOOR SINK: JAY R. SMITH # 3101L (-12), 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, WHITE ABS SEDIMENT BUCKET, AND 8-1/2" SQUARE NICKEL BRONZE RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.
	JS1	JANITOR'S SINK: STERN-WILLIAMS # MTB-2424, 24" x 24" x 10" HIGH TERRAZZO BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY. FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL
	LV1	HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24" STAINLESS STEEL MOP HANGER. WALL-MOUNTED LAVATORY: AMERICAN STANDARD # 0355.012 "LUCERNE" 20-1/2"
		X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. FAUCET: SLOAN "OPTIMA" # EBF-187-0.5 CENTERSET, VANDAL RESISTANT, 4" TRIM PLATE, BATTERY POWERED SENSOR OPERATED FAUCET WITH 0.5 GPM
		AERATOR. TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # 2165CCLK LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED
		BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT
		INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS. 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND
	NW1	120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE. NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH
	RPZ1	SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER. REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 957-NRS, MEETING ASSE 1013, 304 STAINLESS STEEL BODY AND SLEEVE, QUARTER TURN TEST COCKS, RESILIENT SEATED NON-RISING STEM GATE VALVES AND WATTS
	SK1	#77F-DI-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP         FITTING.         HAND SINK (ADA ACCESSIBLE): HAND SINK ADA ACCESSIBLE): ELKAY #         #CHS-1716, 16-3/4"" X 15-1/2" RECTANGULAR, WALL MOUNTED, 18 GAUGE TYPE
		304 STAINLESS STEEL, BACKSPLASH AND SIDE BRACKETS AND WALL MOUNTING BRACKET. FAUCET: CHICAGO FAUCET # 631-218017AB 8" BACK MOUNT FAUCET WITH 7 ¼" – 8 ¾" ADJUSTABLE "G" SUPPLY ARMS, VANDAL RESISTANT #317 WRISTBLADE
		HANDLES, GN2A GOOSENECK SPOUT, # E61VP .5 GPM VANDAL RESISTANT LAMINAR FLOW AERATOR, QUARTER TURN CERAMIC CARTRIDGES. TRIM: McGUIRE # "PRODRAIN2" GRID DRAIN WITH 1-1/2" 17 GUAGE TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE
		STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, WALL BRACKET, PROVIDE BACKBOARD AND SECURE FIXTURE TO IT, AND PLUMBEREX "PRO-EXTREME"#
		X-4222 INSULATION KIT FOR WATER AND WASTE PIPES. THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS OR BRONZE BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT
		INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 1.6 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.25 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE.
	SK2	SINK: ELKAY # WNSF-8345-LR, THREE 15" x 24" x 14" DEEP COMPARTMENTS, LEFT AND RIGHT DRAINBOARDS, 8" HIGH BACKSPLASH, 14 GAUGE TYPE 304 STAINLESS STEEL, AND 16 GAUGE STAINLESS STEEL ADJUSTABLE LEGS. FAUCET: CHICAGO FAUCET #445-206578AB 3 3/8" BACK MOUNT FAUCET WITH 3"
		<ul> <li>– 3 3/8" ADJUSTABLE "R" ARMS WITH INTEGRAL SHUT OFF, VANDAL RESISTANT #</li> <li>369 LEVER HANDLES, L9 SWING SPOUT, # E1 FULL FLOW OUTLET, QUARTER</li> <li>TURN CERAMIC CARTRIDGES.</li> <li>TRIM: (3) ELKAY # LK24RT GRID STRAINERS WITH LEVER HANDLE AND 1-1/2"</li> </ul>
		TAILPIECE, AND 1-1/2" HARD COPPER TYPE "DWV" FABRICATED INDIRECT WASTE LINE ROUTED TO FLOOR SINK. TRANSFORMER: SLOAN # EL-154 120 VAC / 24 VAC, 50 VA. REFER TO
	TS1	ELECTRICAL DRAWINGS FOR WIRING OF TRANSFORMER. TIME SWITCH: INTERMATIC #ET1705CSPST, 7 DAY, ONE CIRCUIT-SINGLE POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH
		SHALL BE MOTOR RATED (1 H.P. @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISION 16 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP.
	UR1	URINAL: AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND SIPHON FLUSH ACTION. VALVE- SLOAN "OPTIMA – SLOAN MODEL" # 186 ES-S TMO 1.0 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, WALL MOUNTED SENSOR
		OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MECHANICAL OVERRIDE BUTTON, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM
	UR2	BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. URINAL (ADA ACCESSIBLE): AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND
		SIPHON FLUSH ACTION. VALVE- SLOAN "OPTIMA – SLOAN MODEL" # 186 ES-S TMO 1.0 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, WALL MOUNTED SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH
		CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MECHANICAL OVERRIDE BUTTON, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT.
	WC1	TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR. WALL-MOUNTED WATER CLOSET: AMERICAN STANDARD # 3351.101 "AFWALL MILLENNIUM FLOWISE" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION.
		VALVE- SLOAN "OPTIMA – SLOAN MODEL" # 111-1.6 ES-S TMO 1.6 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE,
		ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. TRIM- CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC,
	WC2	HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER. WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD # 3351.101 "AFWALL MILLENNIUM FLOWISE WHITE VITREOUS CHINA FIXTURE WITH
		ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. VALVE- SLOAN "OPTIMA – SLOAN MODEL" # 111-1.6 ES-S TMO 1.6 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, HARD WIRED, SENSOR OPERATED,
		DIAPHRAGM TYPE, FLUSH VALVE LESS TRANSFORMER WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. INSTALL FLUSH VALVE HANDLE ON THE WIDE SIDE OF THE STALL.
		TRIM- CHURCH # 9500SSCT WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.
	WCO WHA	WALL CLEANOUT: SIOUX CHIEF #873 SERIES, BRASS COUNTERSUNK PLUG, 20 GAUGE STAINLESS STEEL COVER AND SCREW. CLEANOUT TEE TO BE PROVIDED SEPARATELY. REFER TO SPECIFICATIONS FOR INSTALLATION. WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN
		COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH-201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A"
		UNLESS SHOWN OTHERWISE ON THE PLANS.

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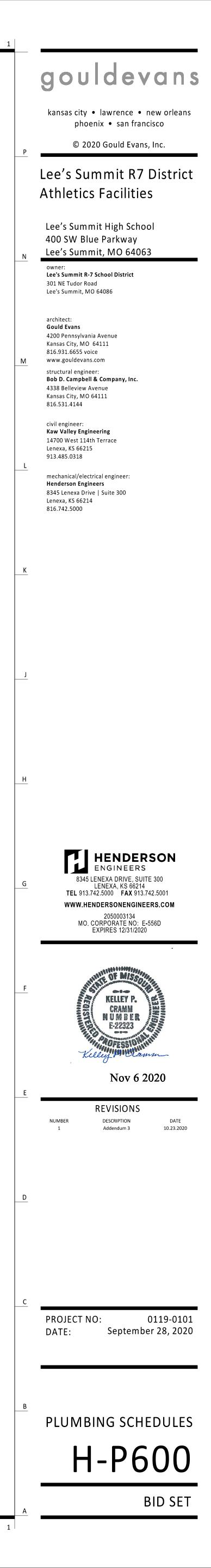
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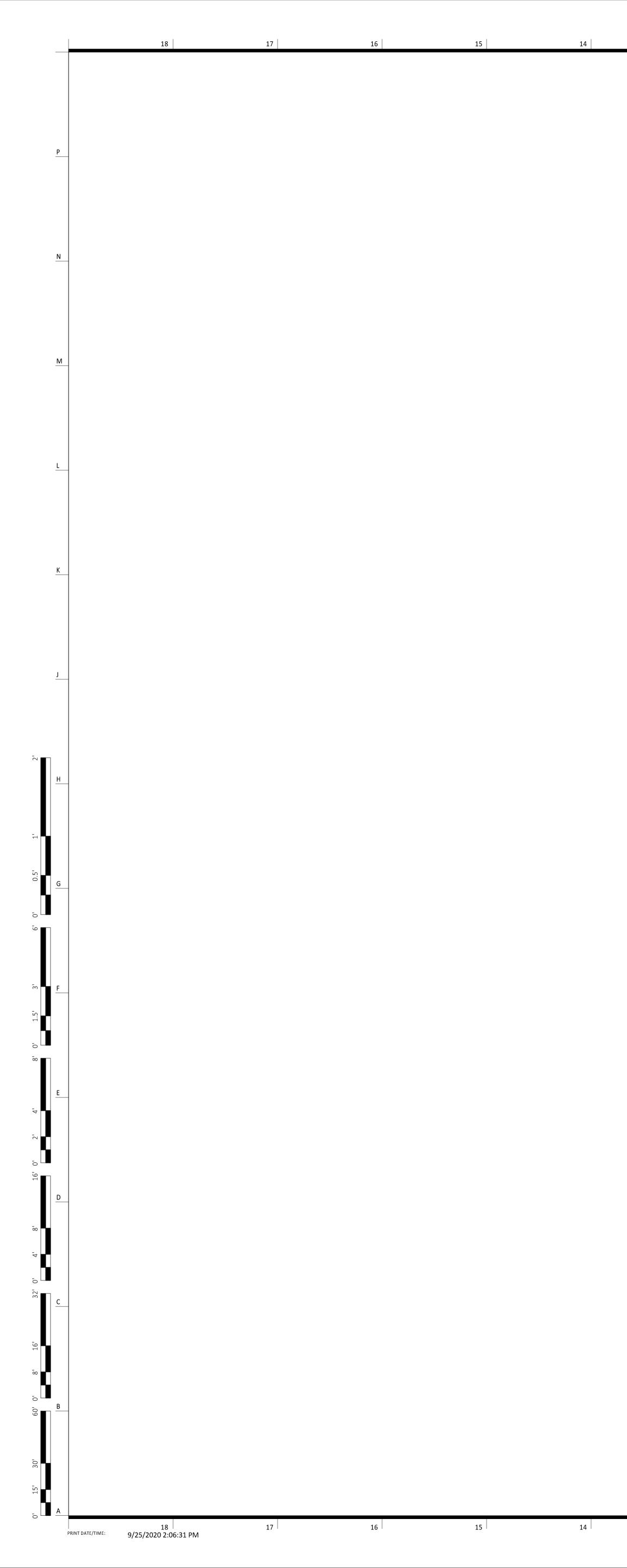
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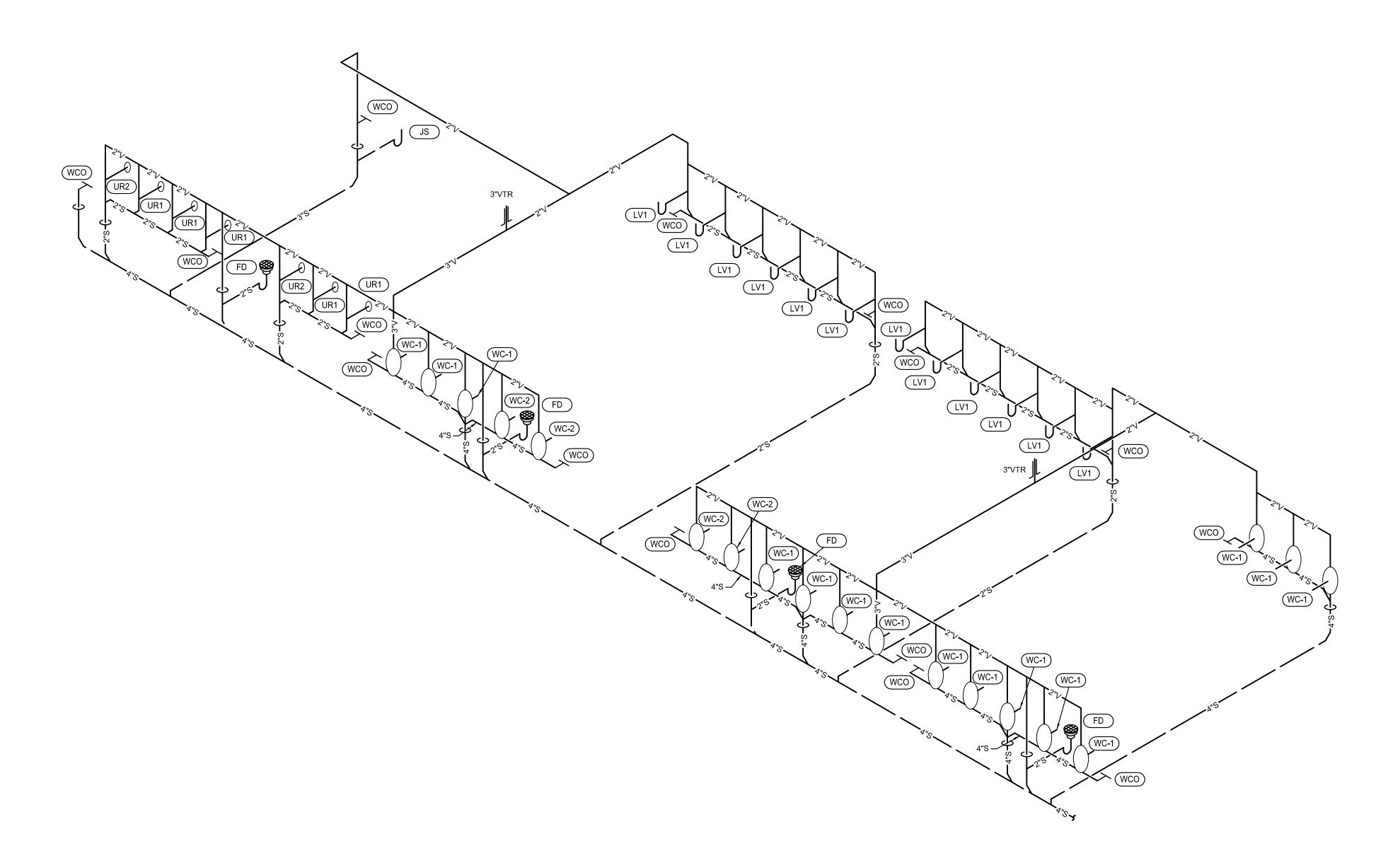
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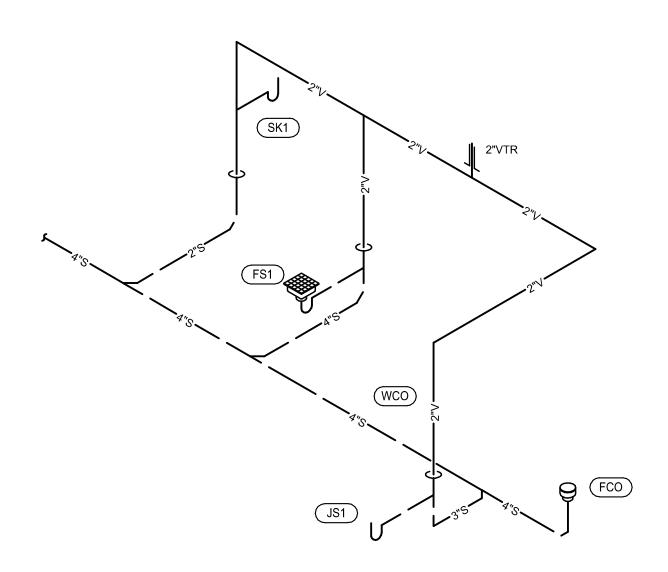




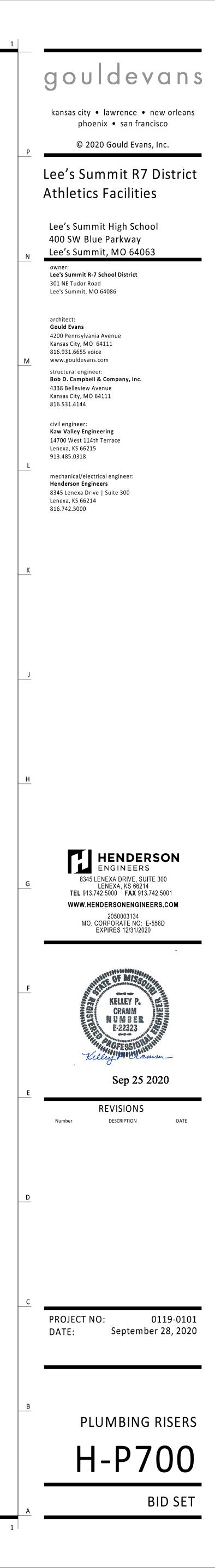




1 PLUMBING RESTROOM WASTE AND VENT RISER NTS

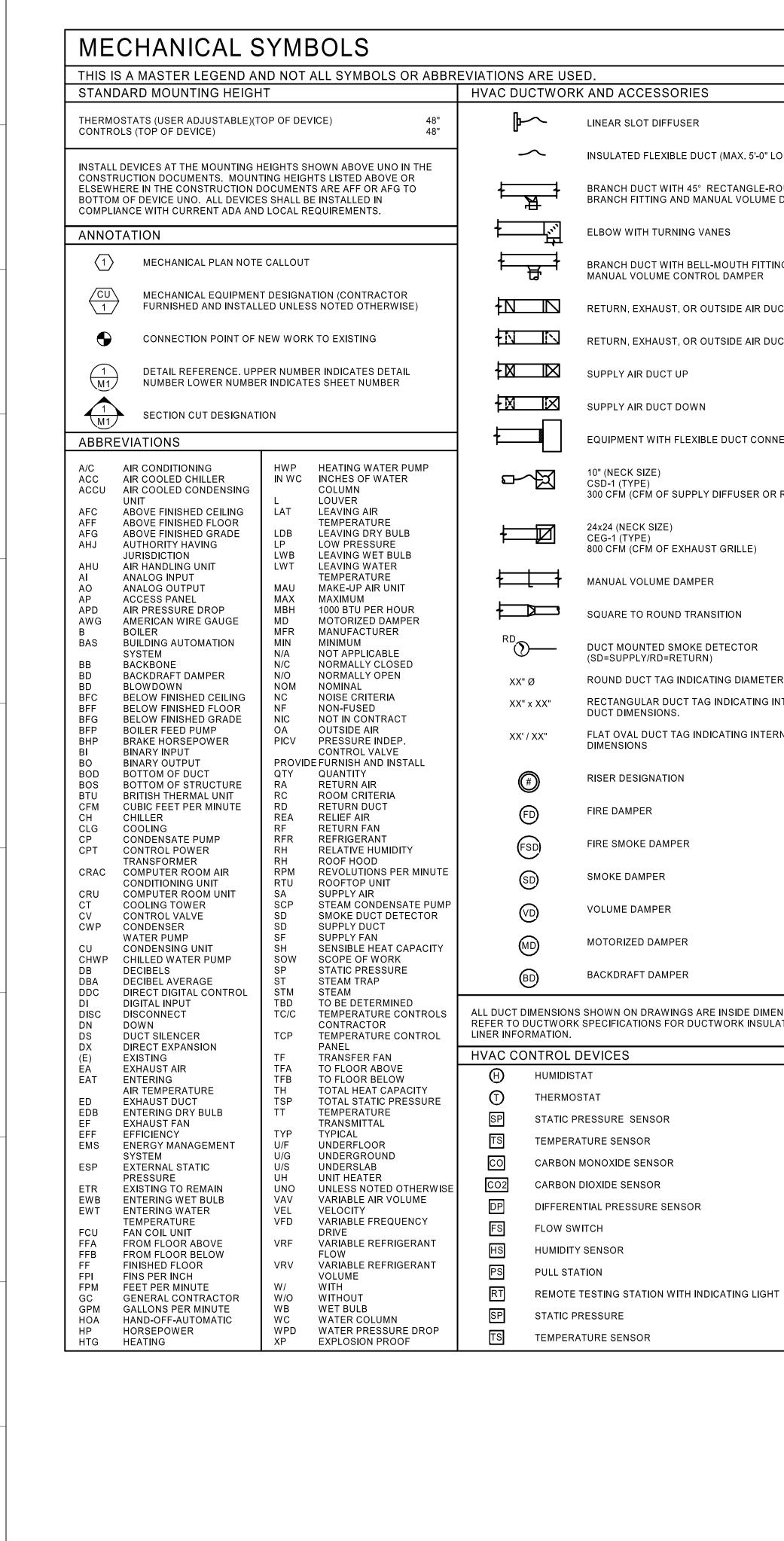


2 PLUMBING CONCESSION WASTE AND VENT RISER NTS



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KELLEY P. CRAMM

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P	IPING SYMBOLS		PIPING LINETYPE	V2 ES
	_	DIRECTION OF FLOW	CD	CONDENSATE DRAIN (CD)
	<b>A</b>	CONTROL VALVE	ACD	AUXILIARY CONDENSATE DRAIN (ACD)
NG)	۲ ۲	THREE-WAY CONTROL VALVE		NON-POTABLE WATER (NPW)
	<u> </u>	SHUTOFF VALVE	NPW	
UND DAMPER		CHECK VALVE	G	NATURAL GAS (G)
	<b>rs</b>	BALANCING VALVE WITH PRESSURE PORTS	G	NATURAL GAS ON ROOF (G)
	☆	TRIPLE DUTY VALVE WITH PRESSURE PORTS	MPG	MEDIUM PRESSURE NATURAL GAS (MPG)
G &		STRAINER	— — MPG— —	·
		STRAINER WITH BLOWDOWN VALVE	FOS	FUEL OIL SUPPLY (FOS)
T UP		RELIEF / SAFETY VALVE	FOR	FUEL OIL RETURN (FOR)
	<del>\</del>		——FOV——	FUEL OIL VENT (FOV)
T DOWN		SOLENOID VALVE	LPG	LIQUEFIED PETROLEUM GAS (LPG)
	¢	PRESSURE REDUCING VALVE	———BFW———	BOILER FEED WATER (BFW)
	&	GAS PRESSURE REGULATOR	HPS	HIGH PRESSURE STEAM SUPPLY (HPS)
		THERMOSTATIC MIXING VALVE	— — HPC— —	HIGH PRESSURE STEAM CONDENSATE (HPC)
		PIPE ANCHOR	LPS	LOW PRESSURE STEAM SUPPLY (LPS)
CTION .	EJ	EXPANSION JOINT	— —LPC— —	LOW PRESSURE STEAM CONDENSATE (LPC)
	<u>-</u>	PIPE GUIDE	PD	CONDENSATE PUMP DISCHARGE (PD)
REGISTER)	×	PIPING SUPPORT	HWS	HEATING HOT WATER SUPPLY (HWS)
	×	F & T TRAP	HWR	HEATING HOT WATER RETURN (HWR)
	¢	BUCKET TRAP	CHWS	CHILLED WATER SUPPLY (CHWS)
	ø	THERMOSTATIC TRAP	CHWR	CHILLED WATER RETURN (CHR)
		BACKFLOW PREVENTER	HCS	HOT / CHILLED WATER SUPPLY (HCS)
_	Ŷ	PRESSURE GAUGE	— — HCR— —	HOT / CHILLED WATER SUPPLY (HCR)
	Į	THERMOMETER	Cws	CONDENSER WATER SUPPLY (CWS)
		PRESSURE AND TEMPERATURE TEST PLUG	CWR	CONDENSER WATER RETURN (CWR)
		UNION		HEAT PUMP WATER SUPPLY (HPWS)
	ч. И	FLANGE CONNECTION	HPWR-	HEAT PUMP WATER RETURN (HPWR)
TERNAL		VACUUM RELIEF VALVE		REFRIGERANT LIQUID (RL)
		AUTOMATIC AIR VENT	RL	
NAL DUCT		MANUAL AIR VENT	RD	REFRIGERANT DISCHARGE (HOT GAS) (RD)
	r ₽	PRESSURE / VACUUM SWITCH		REFRIGERANT SUCTION (RS)
		CLEANOUT	RDB	REFRIGERANT DISCHARGE BYPASS (RDB)
·		CAP		REFRIGERANT VENT (RV)
	ю			
	ə	ELBOW DOWN		
		TEE UP		
	181	TEE DOWN		
	<b>+</b> Q	ELBOW UP WITH SHUT-OFF VALVE (SOV)		
	<u> </u>	ELBOW DOWN WITH SHUT-OFF VALVE (SOV)		
	۰۵۰-	TEE UP WITH SHUT-OFF VALVE (SOV)		
·		TEE DOWN WITH SHUT-OFF VALVE (SOV)		
SIONS.	Þ	REDUCER		
	••••	RECIRCULATION PUMP		
		P-TRAP		
	·····	GAS COCK		
		TOP BEAM CLAMP		
	//	TRAPEZE HANGER		
	I IIII	FLEXIBLE CONNECTION	LINETYPE LEGEN	U
			COMBINATION WITH T EXISTING, TO BE DEM AND/OR ITEMS WHICH THE STATUS OF ITEMS VIEW IN WHICH THEY INTENDED TO FULLY I WHICH IS DETERMINE RESPONSIBILITIES. AN DOCUMENTS ARE GEI ORDER FOR THE SAK	RAWINGS DIFFERENT LINETYPES ARE USED IN THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AN OLISHED, TO BE INCLUDED AS PART OF NEW WORK I ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE S USING THESE LINETYPES ARE RELATIVE TO THE APPEAR. PHASING SHOWN IN DRAWINGS IS NOT DESCRIBE ALL NECESSARY CONSTRUCTION PHASIN ED BY THE CONTRACTOR AS PART OF THEIR NY SUCH PHASES DESCRIBED IN THE CONSTRUCTION NERAL AND ONLY INTENDED TO INDICATE A BROAD E OF DESCRIBING THE PROJECT. THE FOLLOWING SED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAP
ļ			EXISTING	NEW
			DEMOLISH — —	FUTURE

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- GENERAL NEW NOTES:
- 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
- 2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- 3. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
- 4. WHERE SHUTDOWN OF EXISTING SYSTEMS IS REQUIRED DURING NEW WORK, COORDINATE SHUTDOWN TIME AND DURATION WITH THE OWNER TO MINIMIZE DOWNTIME. NOTIFY OWNER SEVEN (7) DAYS PRIOR TO INTERRUPTION OF SERVICE.
- 5. DURING INSTALLATION OF NEW WORK, AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO THE OWNER.
- 6. PROVIDE TEMPORARY BARRIERS TO CONTAIN DUST AND DEBRIS RESULTING FROM THE PERFORMANCE OF THE WORK TO THE AREA WHERE WORK IS BEING PERFORMED.
- ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED.
   NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE
- SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.
- 10. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS BECOME WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.
- 11. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
- 12. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.
- 13. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
- 14. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
- 15. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
- 16. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
- 17. PAINT PORTIONS OF DUCTWORK AND INSULATION THAT ARE EXPOSED TO VIEW BY THE INSTALLATION OF DIFFUSERS, REGISTERS, AND GRILLES IN CEILINGS OR WALLS FLAT BLACK. PORTIONS INCLUDE BOTH THE INTERIOR OF UNLINED DUCTWORK AND THE EXTERIOR OF DUCTWORK AND INSULATION.
- DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
- 19. LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 26. AT A MINIMUM, PROVIDE CONDUIT IN THE WALL FROM THE JUNCTION BOX TO 6" ABOVE THE CEILING.
- 20. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.
- 21. PROVIDE A MANUAL BALANCING DAMPER IN EACH DUCT TAKEOFF FROM SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

22. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.

- 23. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- 24. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 25. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 26. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

## Sheet List - Mechanical

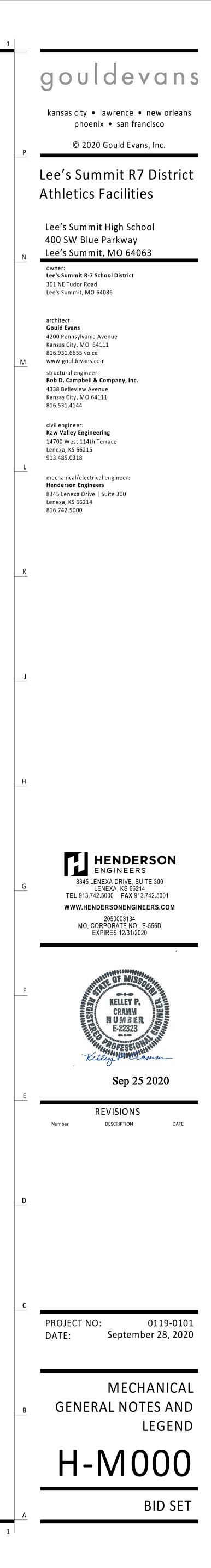
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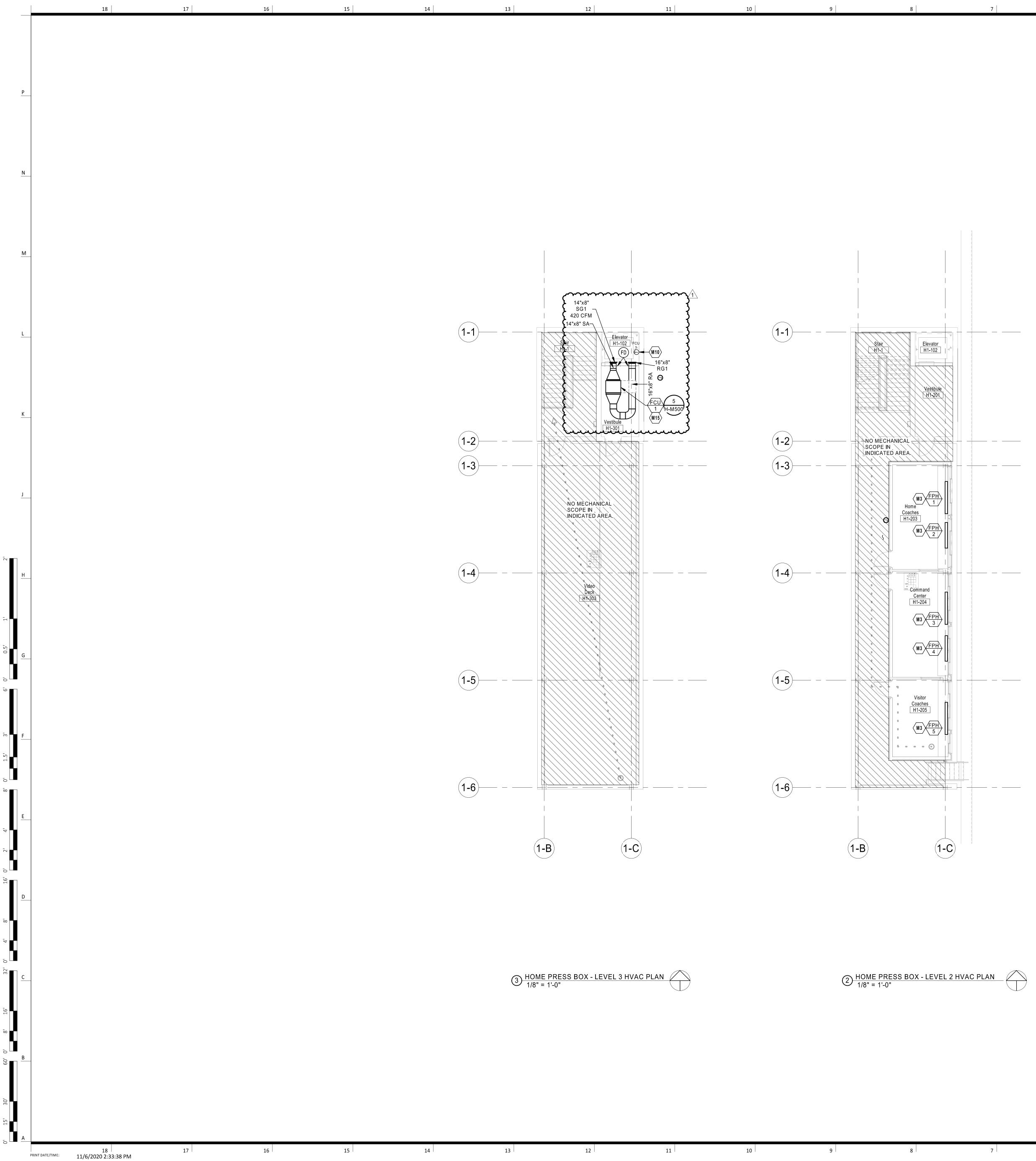
H-M000	MECHANICAL GENERAL NOTES AND LEGEND
H-M111	HOME PRESS BOX - HVAC PLANS
H-M121	HOME GATEWAY - HVAC PLANS
H-M131	VISITOR TICKET BOOTH - HVAC PLANS
H-M500	MECHANICAL DETAILS
H-M600	MECHANICAL SCHEDULES & CONTROLS
Grand total: 6	

4

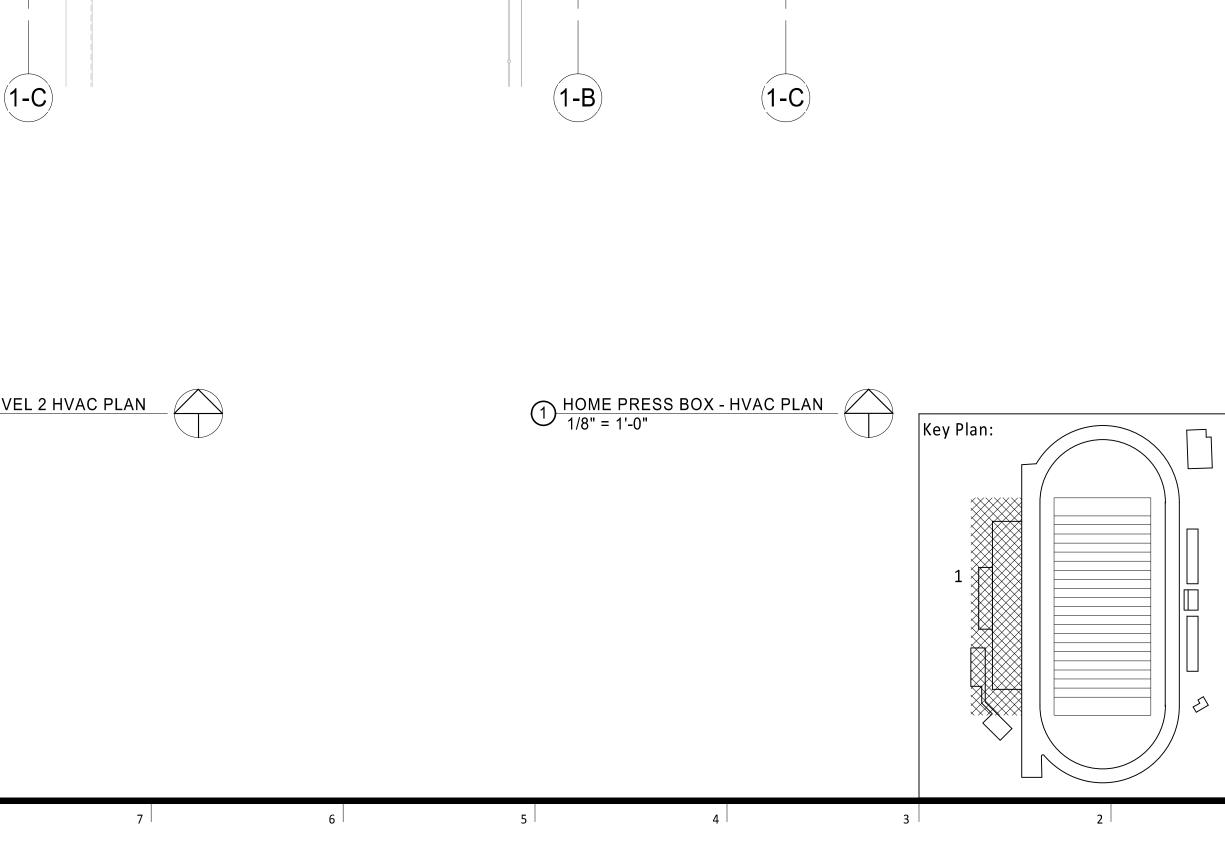
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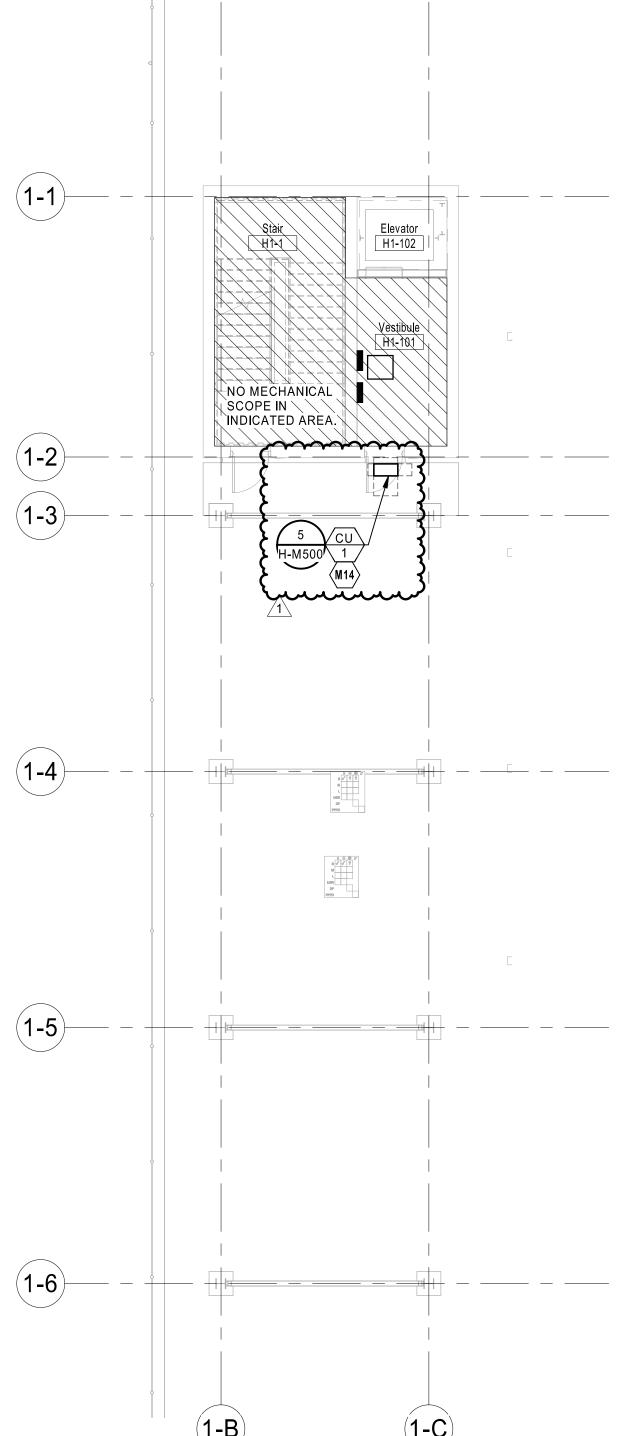
Sheet Number













REQUIREMENTS.

3

MECHANICAL PLAN NOTES: M3 INSTALL FAN POWERED TERMINAL HEATER ON FLOOR. M10 INSTALL THERMOSTAT IN ACCESSIBLE LOCATION WITHIN THE ELEVATOR SHAFT AS CLOSE AS POSSIBLE TO ELEVATOR CONTROLLER. M14 INSTALL CONDENSING UNIT ON WALL 12'-0" ABOVE FINISHED GRADE. ROUTE REFRIGERANT PIPING INSIDE AND UP THE INTERIOR OF THE BUILDING. REFER TO SPECIFICATIONS AND MANUFACTURER REQUIREMENTS. M15 INSTALL FAN COIL UNIT SUSPENDED FROM STRUCTURE.

REFER TO SPECIFICATIONS AND MANUFACTURER

Munumunumunum

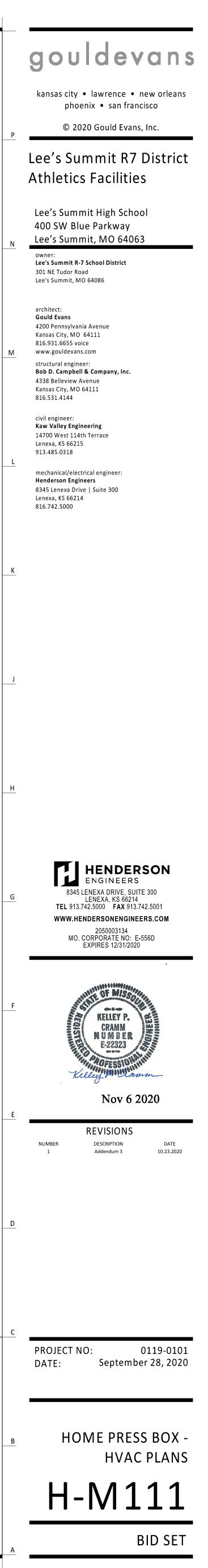
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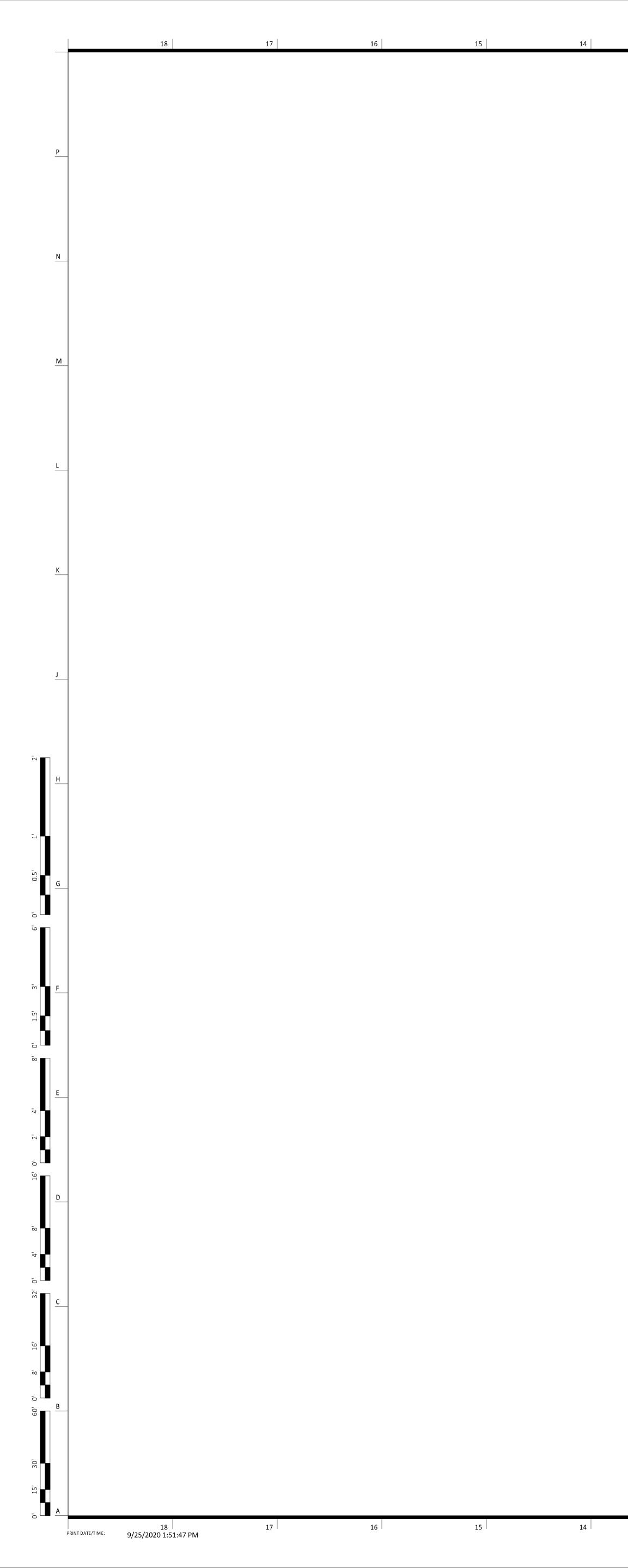
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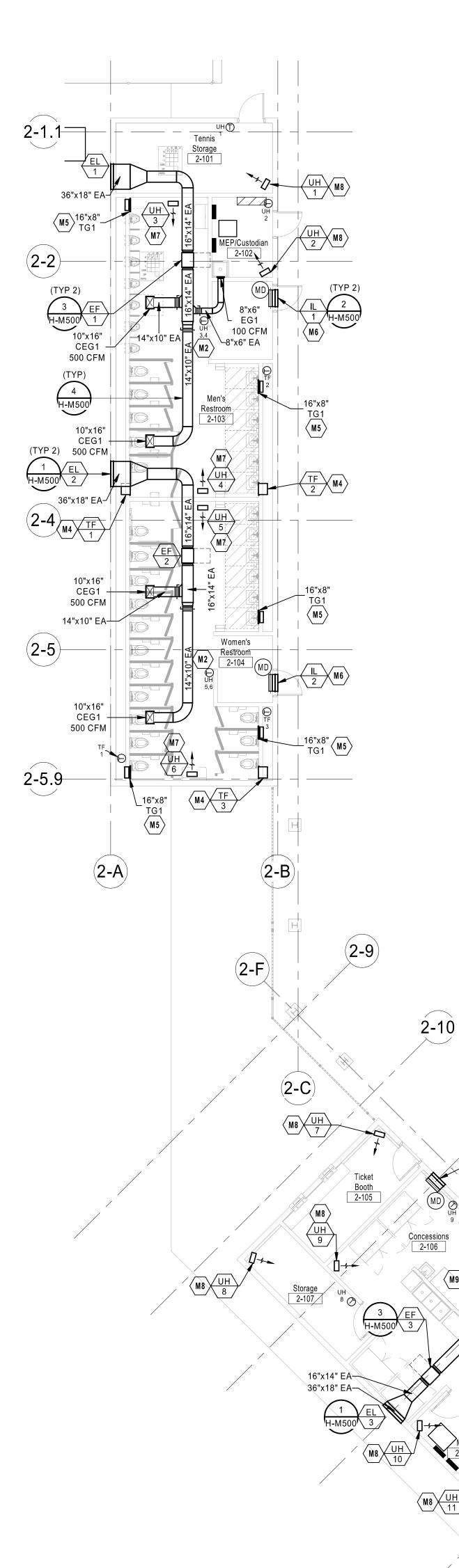












1/8" = 1'-0"

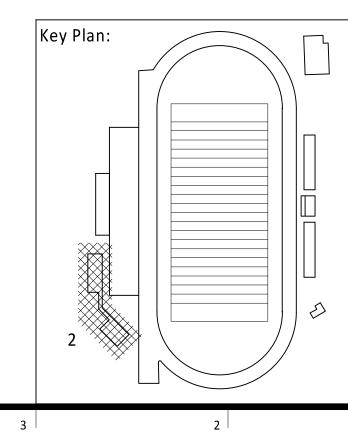




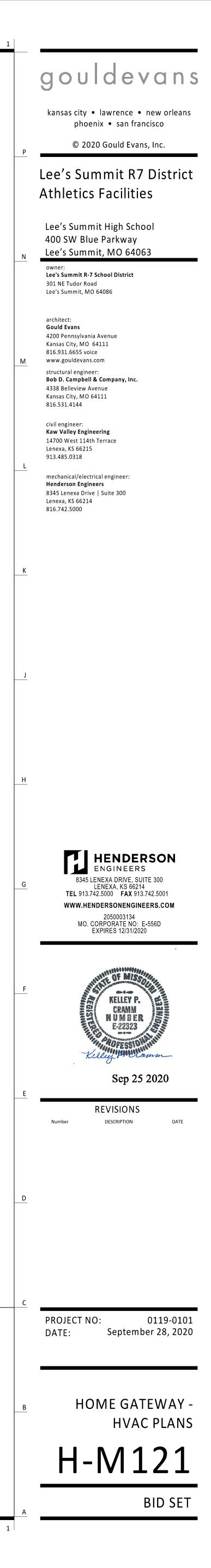
- **MECHANICAL PLAN NOTES:**
- M2 PROVIDE VANDAL-PROOF COVER ON THERMOSTAT. M4 INSTALL TRANSFER FAN IN CMU BLOCK CAVITY HIGH ON WALL.
- M5 INSTALL TRANSFER GRILLE LOW AS POSSIBLE ON WALL AS NOT TO INTERFERE WITH PLUMBING FIXTURES OR OTHER
- DISCIPLINES. M6 INSTALL INTAKE LOUVER ABOVE DOORWAY.
- M7 INSTALL UNIT HEATER ON WALL AT 8'-0" AFF. M8 SUSPEND UNIT HEATER FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
- M9 INSTALL RADIANT HEATER RECESSED IN CEILING.
- COORDINATE FINAL LOCATION WITH LIGHTING.

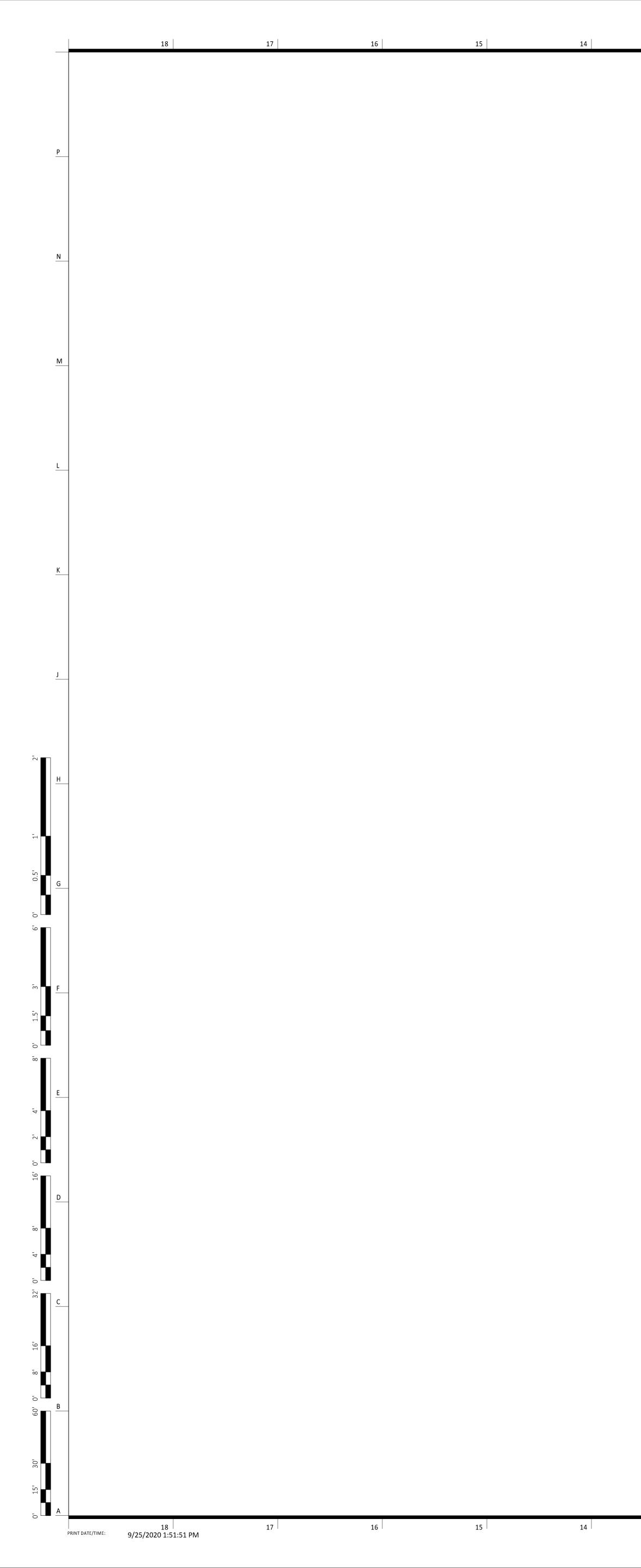
ð\_\_\_\_\_0 2-11.1 2-12  $\frown$ **2-13**  ROOM 2-109 TO
 BE PART OF H3
 ALTERNATE
 BID PACKAGE. 2-13.9 /10"x22" CEG2 1000 CFM 6"x6" — EG1 100 CFM Storage 2-109 UH 11

9\_\_\_\_\_\_



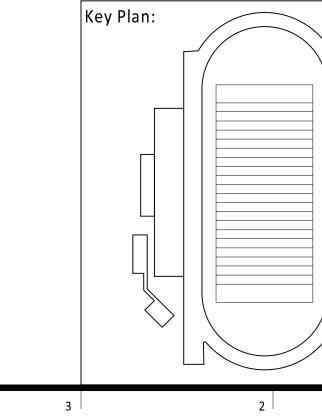
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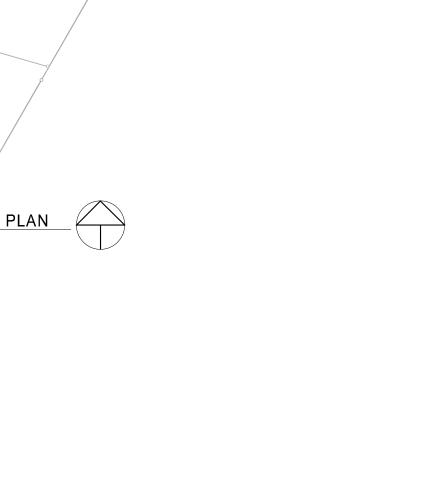


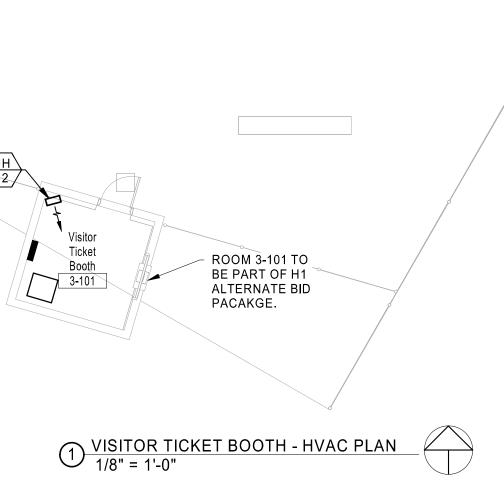


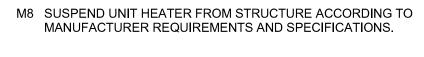
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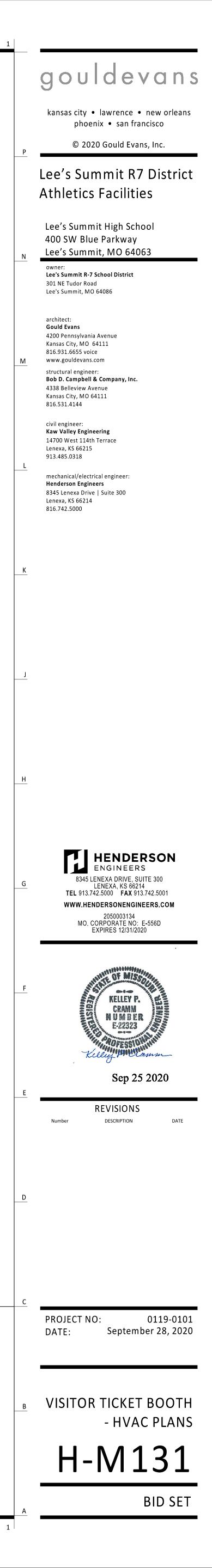


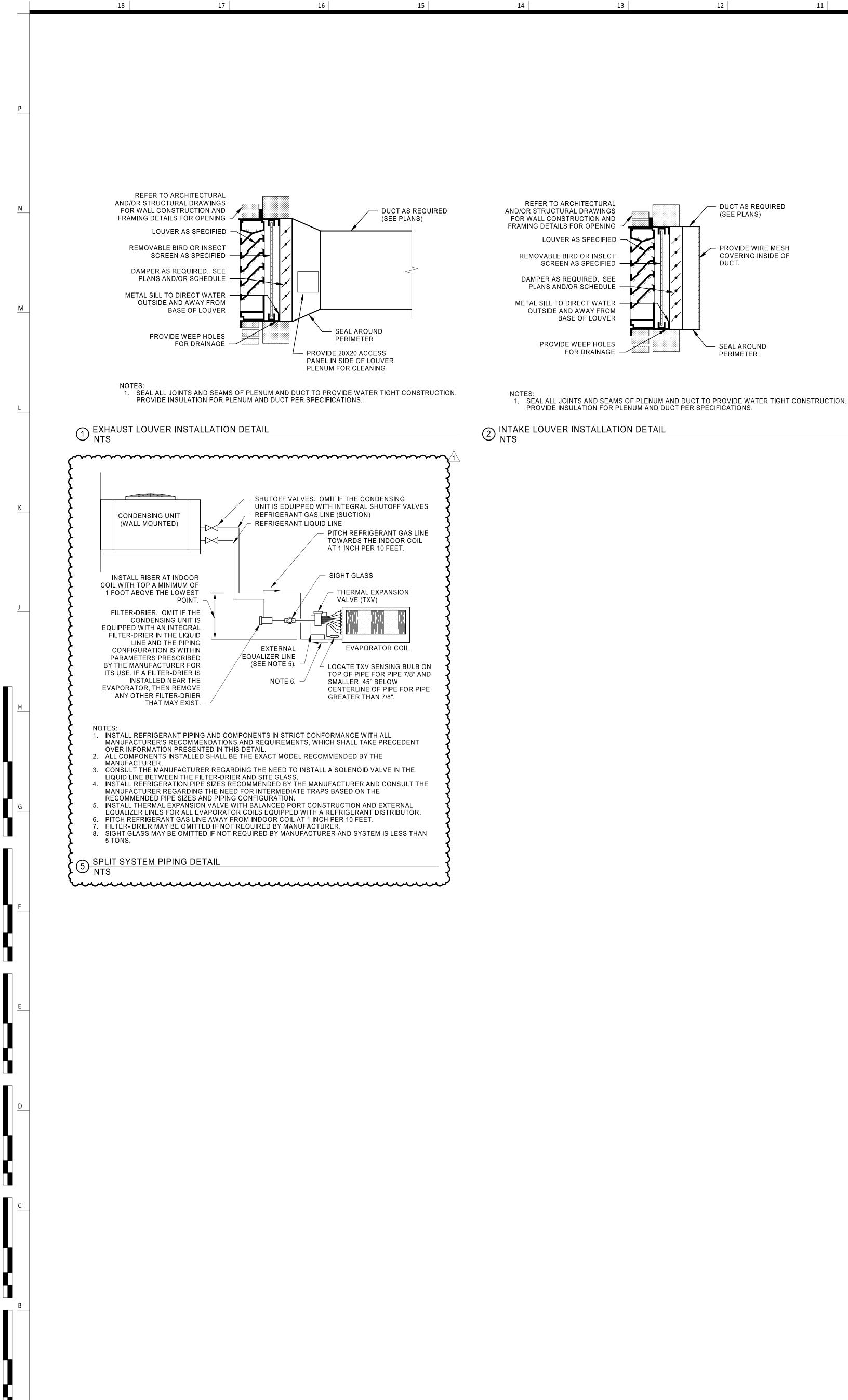




<u>MECHANICAL PLAN NOTES:</u>

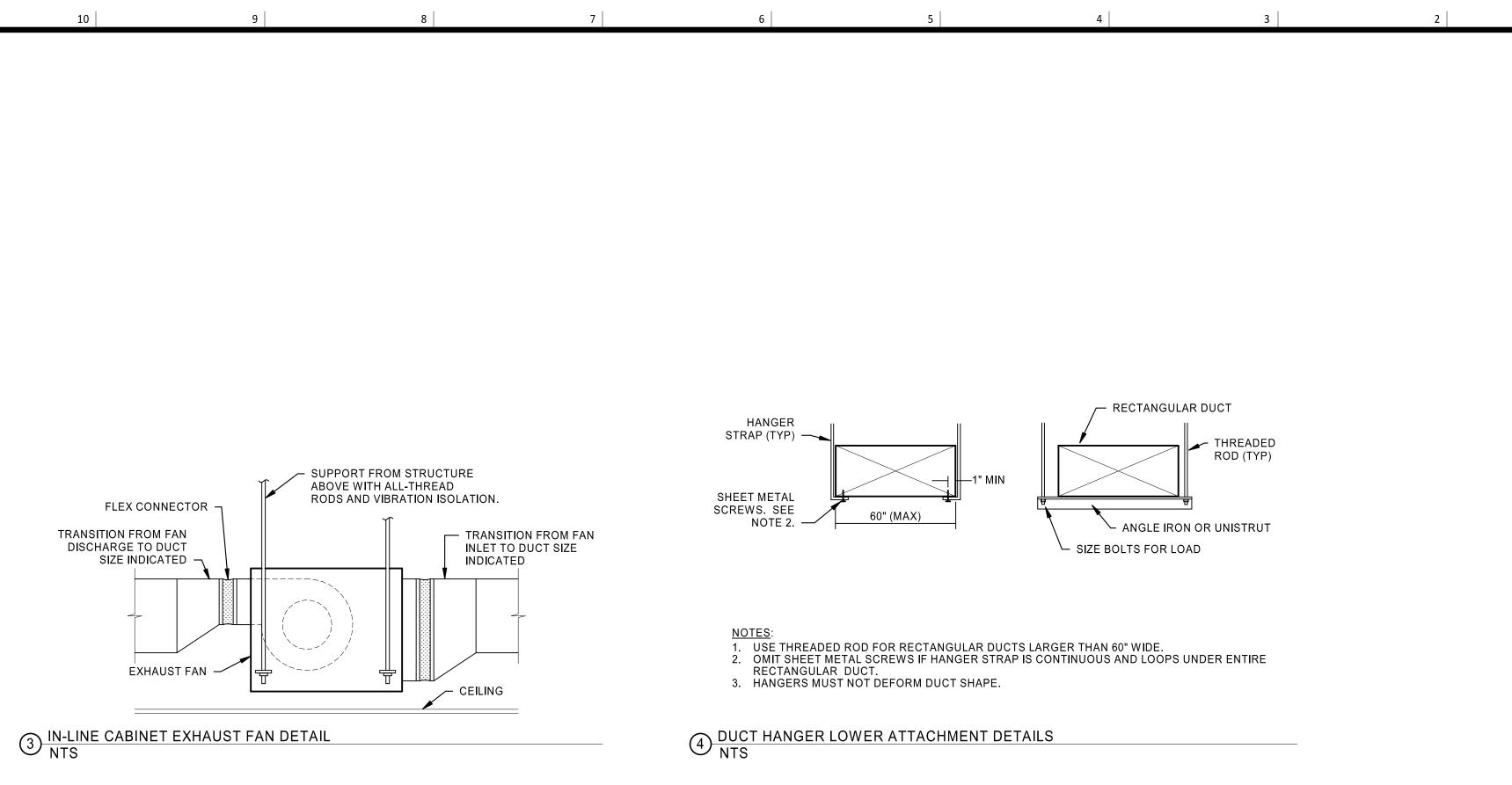
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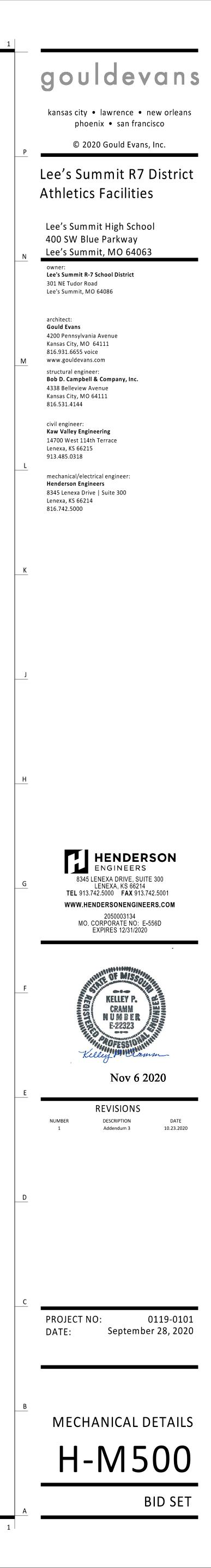


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MARK FPH 1	LOCATION HOME COACHES	MANUFACTURER SOHO	MODEL SoHo-e-06-077	LENGTH	INPUT (KW)			SCHED	TS PH MCA
FPH 2 FPH 3 FPH 4	HOME COACHES COMMAND CENTER COMMAND CENTER	SOHO SOHO SOHO	SoHo-e-06-061 SoHo-e-06-077 SoHo-e-06-061	61" 77" 61"	1.5182.0251.518	5 CFM TOI 0 CFM TOI 5 CFM TOI	P TOP P TOP P TOP	FLOOR27FLOOR27FLOOR27	716.8719.0716.8
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C. DIVISI D. DIVISI E. DIVISI F. PROV	ION 26 TO PROVIDE LI ION 26 TO PROVIDE S ION 26 TO PROVIDE LI /IDE WITH INTEGRATE /IDE NECESSARY MOU	NE VOLTAGE THROU INGLE TIMER SWITCH NE VOLTAGE THROU D THERMOSTAT.	FOR ROOMS W GH SINGLE TIMI	VITH MULT ER SWITCH	IPLE UNITS. H IN ROOMS		E UNITS.		
		TED DISCONNECT SW	ITCH INSTALLE					SER S	
CEG1	PRICE E	SERVICE MODE XHAUST 630	ALUMI	PE F NIUM L	ACE TYPE		IG	ORDER TYPE SURFACE	FACE SIZE 16"x10" 24"x12"
CEG2 EG1 RG1 SG1 TG1	PRICE E PRICE PRICE	XHAUST 630 XHAUST 630 RETURN 630 SUPPLY 630 RANSEEP 630	ALUMI ALUMI ALUMI ALUMI	NIUM L NIUM L NIUM L	OUVERED OUVERED OUVERED OUVERED	CEILIN WALL WALL WALL	-	SURFACE SURFACE	24"x12" REFER TO P REFER TO P REFER TO P
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D. FRAM	IE TYPE TO MATCH CI	EILING/WALL CONSTR	UCTION, COOR						
MARK				TURER	MODEL		LENGTH (IN	) CFM	MIN FF AREA (
EL 1 EL 2 EL 3 IL 1	RESTROOMS RESTROOMS CONCESSION MENS RESTROC		GREENH GREENH GREENH	IECK	ESD-635 ESD-635 ESD-635 ESD-635	36" 36" 36" 24"	18" 18" 18" 24"	1100 CFM 1000 CFM 1100 CFM 1000 CFM	1.43 1.58 1.77
	WOMENS RESTR CONCESSION	INTAKE BE CONSIDERED COM		IECK					1.77 L NUMBERS
THE MAN NOTES:	THE COMPLETE DESC UFACTURERS LISTED	ARE THE BASIS FOR		15 IU DET	CRMINE THE	E EAAUT MATER	NAL AND ACCI	looukies to B	e okdered
B. PROV C. FRAM D. PROV	/IDE 1/2" MESH ALUMI /IDE ANNODIZED FINIS 1E TYPE SHALL MATCI /IDE WITH INTEGRAL F	6H WITH COLOR SELE H WALL CONSTRUCTI BACKDRAFT DAMPER	ON, COORDINA		RCHITECT.				
	/IDE WITH INTEGRAL 2 RLOCK MOTOR-OPER/	ATED DAMPER WITH E	EXHAUST FAN.	ΕΑΤ	ER S			ELEC	TRIC
MARK UH 1	AREA SERVED TENNIS STORAGE	MANUFACTURE	R MODEL MUH03-71	MIN O (MBF 10.2	UT NOM H) (KW) 2 3.0	MIN NO OF STAGES 1	CFM H 350 0.	TOR THROW IP (FT) 01 12 2	V/PH DIS( 277/1 NON
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UH 6 UH 7 UH 8 UH 9	WOMENS RESTROC TICKET BOOTH STORAGE CONCESSION	M QMARK QMARK QMARK QMARK	MUH-07-4 MUH03-81 MUH03-71 MUH-07-4	25.6 10.2 10.2 25.6	2 3.0 2 3.0	2 1 1 2	6500.3500.3500.6500.	01 12 2 01 12 2	480/3 NON 277/1 NON 277/1 NON 480/3 NON
UH 10 UH 11 UH 12	MEP BAND STORAGE VISITOR TICKET BOC	QMARK QMARK TH QMARK	MUH03-71 MUH03-71 MUH03-81	10.2 10.2 10.2	2     3.0       2     3.0       2     3.0       2     3.0	1 1 1	3500.3500.3500.	01         12         2           01         12         2           01         12         2           01         12         2	277/1 NON 277/1 NON 208/1 NON
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		SPL	_IT SY		M FA	N COI	L UNI	T SCH	
K MARK M FCU 1	MANUFACTURER MITSUBISHI PE	MODEL CF AD-A12/PUZ-A12 42	. ,	) (MBH)	COOLIN SH (MBH) (°F DE 10.0 80.0	EAT RE 3) (°F WB) TYI	FR MIN OUT PE (MBH)	(DB) (°F	G COIL AT HTG DB) LAT 0°F 85°F
	UMBERS SHALL NOT ATIONS TO DETERMIN								
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E. PROV F. PROV G. SUSP H. PROV	/IDE 2" PLEATED THR( /IDE FACTORY MOUN /IDE WITH 7-DAY PRO PEND FAN COIL UNIT F /IDE WALL MOUNTING	TED STARTER AND DI GRAMMABLE THERMO ROM STRUCTURE IN BRACKET FOR CONE	SCONNECT SW DSTAT WITH ST HORIZONTAL P DENSING UNIT.	AGED HEA OSITION W	'ITH ALL -TH	READ ROD AND	SPRING VIBR	ATION ISOLATIO	
J. ROUT K. PROV L. PROV	IDE WALL MOOTHING TE CONDENSATE DRA VIDE AUXILIARY DRAIN VIDE CUSTOM COLOR	IN PIPING FROM UNIT PAN WITH [FLOOD D FINISH ON CONDENS	TO NEAREST F ETECTOR SWIT ING UNIT. COOF	CH TO SHU RDINATE C	JT OFF UNIT	WHEN WATER ARCHITECT.	IS PRESENT I		AUXILIARY D
	R	ADIANT	HEAT	ER S	SCHE	DULE	(ELE	CTRIC	;)
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	DE NECESSARY DE FACTORY MO		NECT_SW	ITCH INSTAL	LED ON SE	RVICE SIDE O	F UNIT.		$\sim$	$\sim$	$\sim$	$\sim$
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					TRUCTION							
Μ	ANUFACTURER PRICE	SERVICE EXHAUST	MODE 630	L	TYPE JMINIUM	FACE TYPE		TING LOCA		DER TYPE JRFACE	FAC	CE SIZE 16"x10
	PRICE	EXHAUST	630	ALU	JMINIUM	LOUVERED		CEILING	รเ	JRFACE		24"x12
	PRICE PRICE	EXHAUST RETURN	630 630	ALU	JMINIUM JMINIUM	LOUVERED LOUVERED		WALL	รเ	JRFACE JRFACE	REFE	ER TO F ER TO F
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RK		SERVED	SERVICE		ACTURER	MODEL		( )	ENGTH (IN)	CFM		MIN FI AREA
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	CONCESSIO MENS REST		EXHAUST INTAKE		NHECK	ESD-635 ESD-635		6" 4"	18" 24"	1100 C		1.5 1.7
	WOMENS RE CONCESSIO		INTAKE INTAKE		NHECK	ESD-635 ESD-635		4" 4"	24" 24"	1000 C		1.7 <sup>°</sup> 1.7 <sup>°</sup>
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	AREA SERV	ED MANU	FACTURER		MIN	OUT NOM BH) (KW)	MIN NC	OF	мото			DIS
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	MENS RESTRO		MARK MARK	MUH05-/ MUH05-/		7.05.07.05.0	2	35		12 12	480/3 480/3	NON NON
	WOMENS REST TICKET BOC		)MARK )MARK	MUH-07 MUH03-		5.67.50.23.0	2	65 35		18 12	480/3	NON NON
	STORAGE CONCESSIO		MARK	MUH03- MUH-07		0.2 3.0 5.6 7.5	1	35		12 18	277/1 480/3	NON NON
	MEP BAND STORA	C	MARK	MUH03-	71 10	0.2 3.0 0.2 3.0	1	35	0 0.01	12	277/1	NON
	VISITOR TICKET		MARK	MUH03- MUH03-		0.2 <u>3.0</u> 0.2 <u>3.0</u>	1	35		12	208/1	NON
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R C	MENT COMPONE OOLING, EQUIPN	IENT SIZED FOR	R 100° F AN	IBIENT TEM	PERATURE.							
OVI	PUMP HEATING ( DE 2" PLEATED 1 DE FACTORY MO	HROWAWAY A	IR FILTERS			STED.						
OVI	DE WITH 7-DAY F ND FAN COIL UN	PROGRAMMABL	E THERMC	STAT WITH	STAGED HE	EATING AND C			Y AS REQUIR			ON OF
OVI	DE WALL MOUN <sup>-</sup> E CONDENSATE	ING BRACKET	FOR COND	ENSING UN	IT.							
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بر									uuu	uu	w	m
		RADIA	٩ΝΤ	HEA	TER	SCHE	EDU	LE (	ELEC	TRI	C)	
ĸ	LOCATION	MANUFACT	URER	MODEL	MOUNTIN TYPE	G SIZE (L" x	: W")	NPUT (W)	VOLTS	P	HASE	
	CONCESSION	QMARI		RK42027	RECESSE		,	2000.0 W	277 V		1	

PRINT DATE/TIME:

11

E	ERED TERMINAL HEATER SCHEDULE (ELECTRIC)													
<b>_</b>	MODEL			0514			MOUNTING					NOTEO		
R	MODEL	(IN)	(KW)	CFM	INTAKE	OUTLET	TYPE	VOLTS	РН	MCA	DISC TYPE	NOTES		
	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277	1	9.0	NON-FUSED	A,D,E,F,G,H		
	SoHo-e-06-061	61"	1.5	185 CFM	TOP	TOP	FLOOR	277	1	6.8	NON-FUSED	A,D,E,F,G,H		
	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277	1	9.0	NON-FUSED	A,D,E,F,G,H		
	SoHo-e-06-061	61"	1.5	185 CFM	TOP	TOP	FLOOR	277	1	6.8	NON-FUSED	A,D,E,F,G,H		
	SoHo-e-06-077	77"	2.0	250 CFM	TOP	TOP	FLOOR	277	1	9.0	NON-FUSED	A,B,C,F,G,H		
											MI V			

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SERVICE ELECTRICAL														
MARK	LOCATION	DESCRIPTION	MANUFACTURER	MOUNTING	MODEL	CFM	(IN)	HP	RPM	(BELT/DIRECT)	V/PH	DISC TYPE	WEIGHT (LBS)	NOTES
EF 1	MENS RESTROOM	EXHAUST	GREENHECK	INLINE	SQ-100-VG	1100	0.25	0.25	1456	DIRECT	115/1	NON-FUSED	45	A,B,C,D
EF 2	WOMENS RESTROOM	EXHAUST	GREENHECK	INLINE	SQ-100-VG	1000	0.25	0.25	1352	DIRECT	115/1	NON-FUSED	45	A,B,C,D
EF 3	CONCESSION	EXHAUST	GREENHECK	INLINE	SQ-100-VG	1100	0.25	0.25	1456	DIRECT	115/1	NON-FUSED	45	A,B,C,D
TF 1	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E
TF 2	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E
TF 3	RESTROOMS	TRANSFER	GREENHECK	WALL	CBF	500	0.20	0.05	1050	DIRECT	115/1	NON-FUSED	17	B,C,E

NOTES: A. PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.

B. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH. C. PROVIDE WITH MANUFACTURER'S FAN SPEED CONTROLLER FOR BALANCING PURPOSES. D. PROVIDE WITH MANUFACTURER'S ELECTRONICALLY COMMUTATED (EC) MOTOR.

E. PROVIDE WITH WALL MOUNTED TEMPERATURE SENSOR.

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CHEDULE												
		MAX PRESS DROP (IN	{									
FACE SIZE (IN)	MAX NC	W.C.)	NOTES 3									
16"x10"	30	0.08	A,B,C,D <b>Š</b>									
24"x12"	30	0.08	A,B,C,D <b>Š</b>									
REFER TO PLANS	30	0.08	A,B,C,D <b>Š</b>									
REFER TO PLANS	30	0.05	A,C,D <b>Š</b>									
REFER TO PLANS	30	0.08	A,C,D <b>Š</b>									
REFER TO PLANS	30	0.08	A,B,C,D <b>Š</b>									
NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, ED ARE THE BASIS FOR THE DESIGN.												

MIN FREE MAX VEL MAX APD (IN AREA (SF) (FPM) NOTES W.C.) 1.58 700 FPM 0.05 in-wg A,B,C,D 0.05 in-wg 1.43 700 FPM A,B,C,D 1.58 700 FPM 0.05 in-wg A,B,C,D 560 FPM 0.01 in-wg A,B,C,E,F 1.77 1.77 560 FPM 0.01 in-wg A,B,C,E,F 1.77 560 FPM 0.01 in-wg A,B,C,E,F

NUMBERS ONLY. ORDERED.

RIC)	
DISC TYPE	NOTES
NON-FUSED	A,B,E,F
NON-FUSED	A,B,E,F
NON-FUSED	A,E,F,G
NON-FUSED	A,C,D,E,F,H
NON-FUSED	A,B,E,F
NON-FUSED	A,C,D,E,F,H

UMBERS ONLY. ORDERED.

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EDULE (HEAT PUMP)									
CC	DIL		•	ELE	CTRICAL				
3)	HTG LAT	V/PH	МСА	MOCP	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES	
	85 °F	208/1	11	28	NON-FUSED	INTEGRAL	58	A-L	
	ION OF				CONTROLS.				
IXI			ROVID				21		

JXILIARY DRAIN PROVIDED BY PLUMBING CONTRACTOR.] 

13

NOTES
A,B
A,B

12	

8 |

### SEQUENCE OF OPERATIONS MISCELLANEOUS EQUIPMENT

### EXHAUST FAN (EF-1,2,3) OPERATING MODES

OCCUPIED MODE: The units shall be in occupied mode when the room light switch is turned on.

UNOCCUPIED MODE: The units shall be in unoccupied mode for all periods when the room light switch is turned off.

- **COMPONENT CONTROL LOOPS:** The units shall be controlled by the room lighting controls system. A 2 position motorized damper at the intake louver shall be linked with the exhaust fan.
- When in occupied mode: The unit shall run continuously.
- 2 position motorized damper at intake louver shall be open. When in unoccupied mode:
- The unit shall be off. 2 position motorized damper at intake louver shall be closed.

### TRANSFER FAN (TF-1,2,3)

OPERATING MODES <u>STANDBY MODE:</u>

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint of 50 F. TRANSFER MODE:

The units shall be in transfer mode when the zone temperature (Z-T) falls below space temperature setpoint of 50 F. COMPONENT CONTROL LOOPS:

- The units shall operate as an independent system. Each unit shall be controlled by a wall mounted thermostat located within the respective plumbing chase. When in Standby Mode:
- The unit shall remain off. When in Transfer Mode:

temperature setpoint of 50 F.

The unit shall be on. The unit shall remain on until space temperature as sensed by the wall mounted thermostat is above space

### ELECTRIC UNIT HEATER (UH-1,2,3,4,5,6,8,9,10,11)

#### OPERATING MODES <u>STANDBY MODE:</u>

The units shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint. <u>HEATING MODE:</u>

he units shall be in heating mode when the zone temperature (Z-T) falls below space temperature setpoint. COMPONENT CONTROL LOOPS

- The units shall operate as an independent system. The units shall be controlled by a wall mounted thermostat located within each respective space When in Standby Mode:
- The unit shall remain off. When in Heating Mode:

The unit shall be on. The unit shall stage/cycle heater as required to maintain space temperature setpoint of 68 F as sensed by the wall mounted thermostat.

### ELECTRIC UNIT HEATER (UH-7,12) OPERATING MODES

<u>STANDBY MODE:</u>

The unit shall be in standby mode when the timer switch is off. <u>HEATING MODE:</u>

The unit shall be in heating mode when the timer switch is on. COMPONENT CONTROL LOOPS

- The units shall operate as an independent system. The units shall be controlled by a timer switch located within each respective room. When in Standby Mode:
- The unit shall remain off. When in Heating Mode:

The unit shall be on. The unit shall stage/cycle heater as required to maintain temperature setpoint of 68 F as sensed by the integral thermostat.

### FAN-POWERED TERMINAL HEATER (FPH-1,2,3,4,5) OPERATING MODES

**STANDBY MODE:** The unit shall be in standby mode when the timer switch is off.

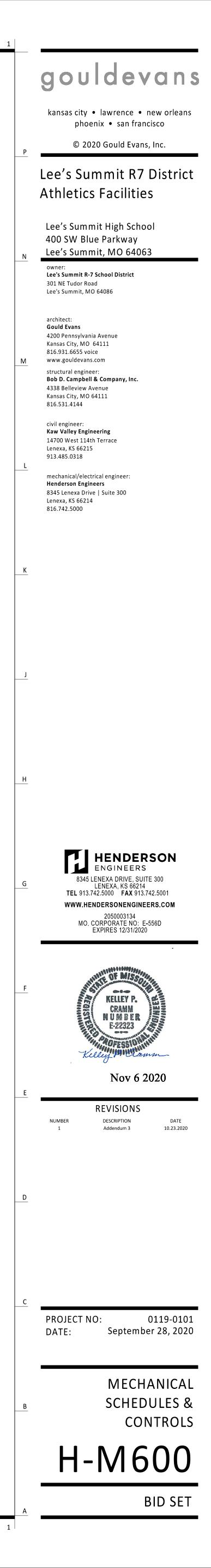
- <u>HEATING MODE:</u>
- The unit shall be in heating mode when the timer switch is on... COMPONENT CONTROL LOOPS
- The units shall operate as an indpendent system. The units shall be controlled by a timer switch located within each respective space.
- When in Standby Mode:
- The unit shall remain off. When in Heating Mode:
- The unit shall be on. The unit shall stage/cycle heater as required to maintain space temperature setpoint of 68 F as sensed by the integral thermostat.
- $\mathbf{b}$ SPLIT SYSTEM FAN COIL UNIT (FCU-1)
- OPERATING MODES STANDBY MODE:
- The unit shall be in standby mode when the zone temperature (Z-T) does not call for heating or cooling. COOLING MODE:
- The unit shall be in cooling mode when the zone temperature (Z-T) falls below space temperature setpoint. <u>HEATING MODE:</u>
- The unit shall be in heating mode when the zone temperature (Z-T) is above space temperature setpoint.
- **<u>COMPONENT CONTROL LOOPS</u>** The unit shall operate as an independent system. The unit shall be controlled by a wall mounted thermostat located within the space.
- When in Standby Mode: The unit shall remain off.
- When in Cooling Mode: The unit shall be on.
- The unit shall stage/cycle cooling as required to maintain space temperature setpoint of 80 F as sensed by the wall mounted thermostat. When in Heating Mode:
- The unit shall be on. The unit shall stage/cycle heating as required to maintain space temperature setpoint of 68 F as sensed by the wall

mounted thermostat

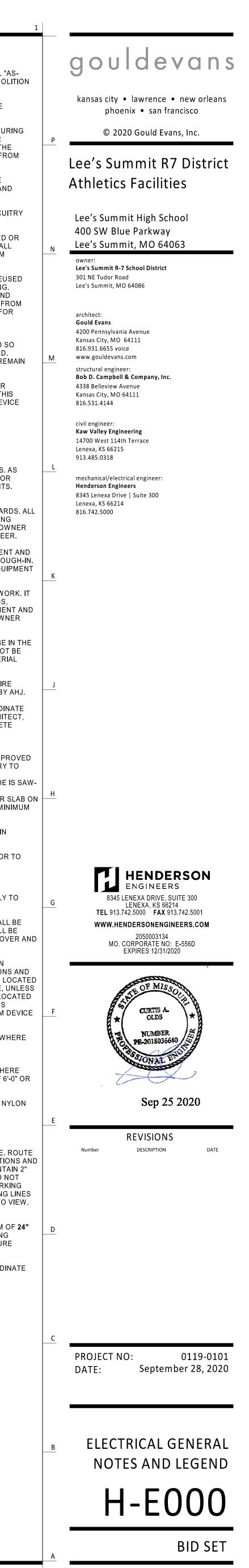
#### RADIANT PANEL (RH-1,2) OPERATING MODES STANDBY MODE:

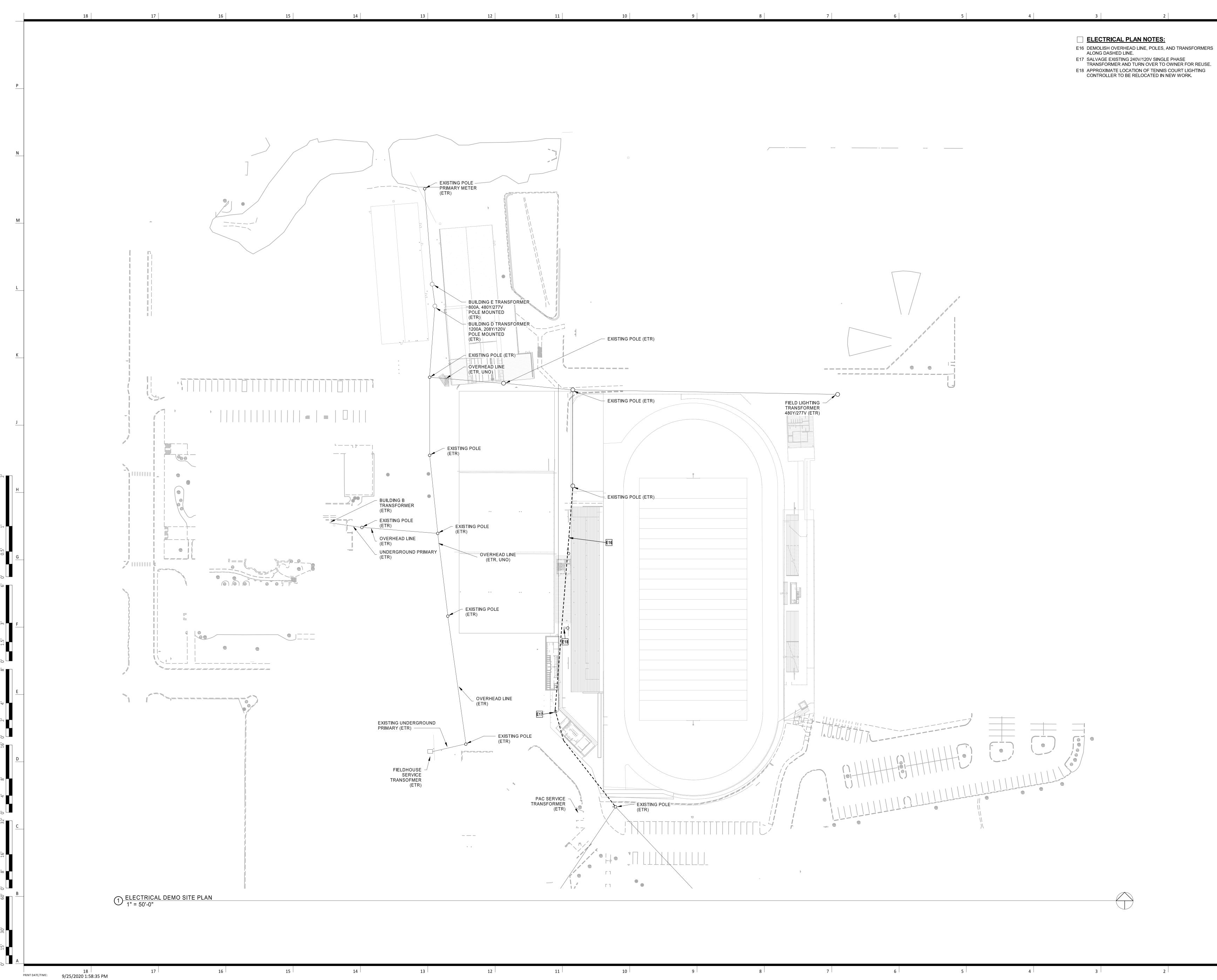
- The units shall be in standby mode when the timer switch is off. <u>HEATING MODE:</u>
- The units shall be in heating mode when the timer switch is on.
- COMPONENT CONTROL LOOPS The units shall operate as an independent system. The units shall be controlled by a single timer switch located within the room.
- When in Standby Mode: The unit shall remain off.
- When in Heating Mode: The unit shall be on.

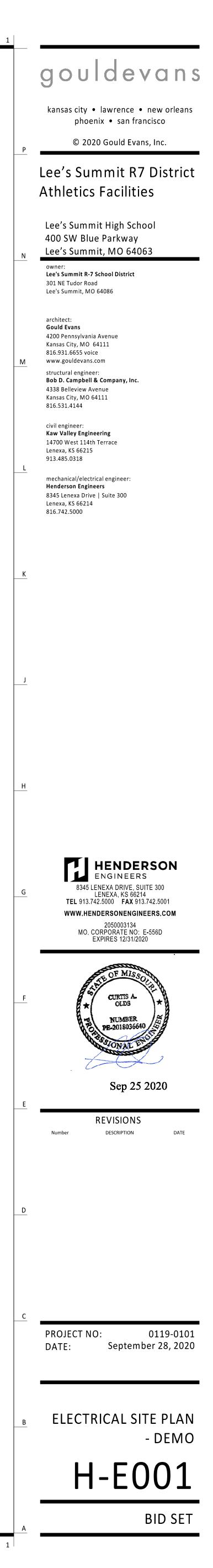
7 |

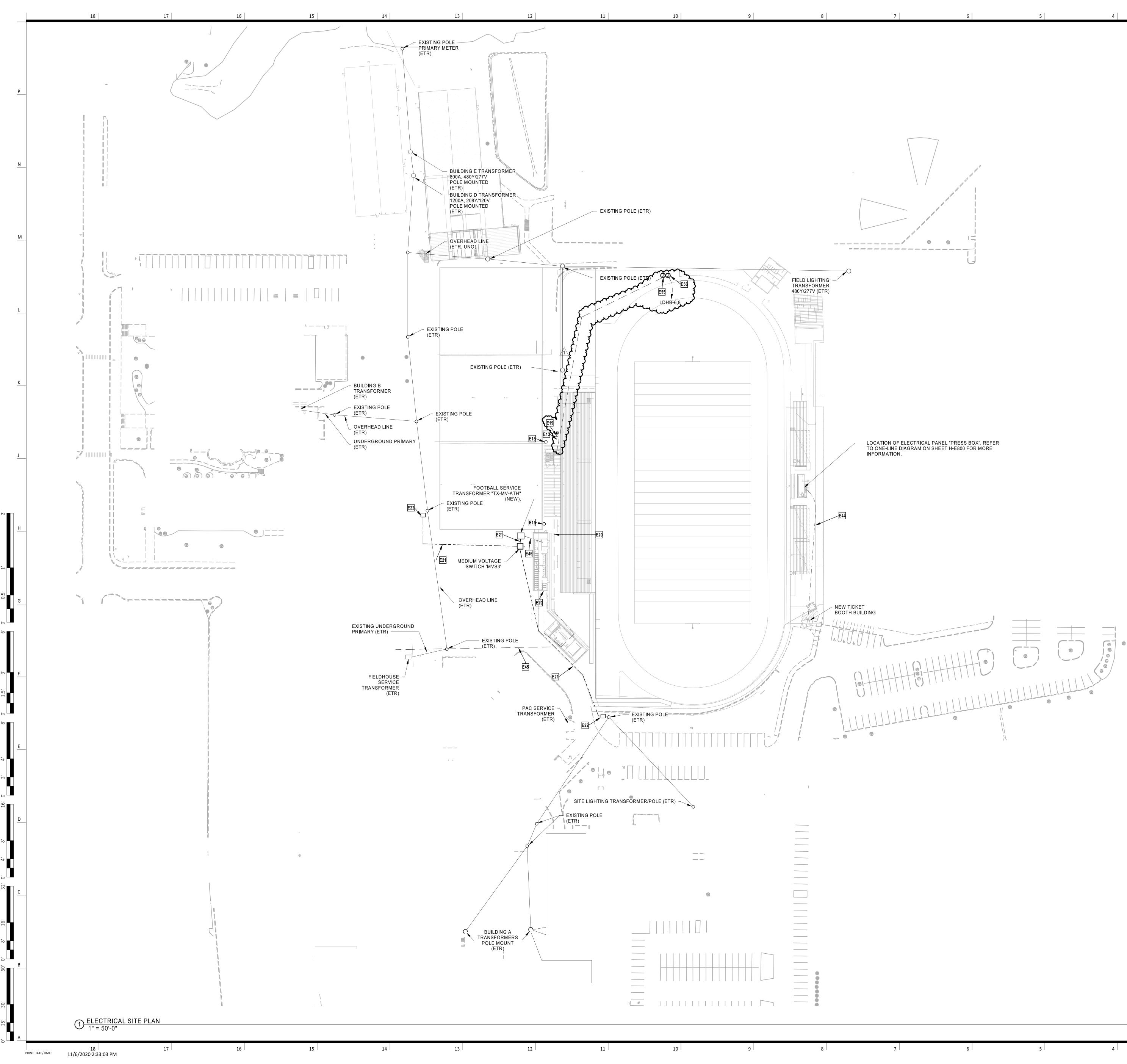


18 17 ELECTRICAL SYMBOLS	16 15 14	13 12 11	10 9	8 7 6	5 4 3 2
HIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBRE	VIATIONS ARE USED.			V3.00	<ul> <li><u>ELECTRICAL GENERAL NOTES :</u></li> <li>1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTU</li> </ul>
TANDARD MOUNTING HEIGHTS	ANNOTATION	LIGHTING	BOXES, LIGHTING CONTROL & WIRING DEVICES	ELECTRICAL ONE-LINE & RISER DIAGRAM	BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DE WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
JDIBLE APPLIANCES (CENTERLINE) 84" _ARMS 48"	(1) MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT		SWITCH LETTER DESIGNATIONS AS FOLLOWS: BLANK = SINGLE	SWITCH (RATING AS INDICATED)	2. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SI BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS.
NNUNCIATOR PANELS (DISPLAY)60"ONTROLS (TOP OF DEVICE)48"KIT SIGNS (WALL MOUNTED)80"	1 PLUMBING PLAN NOTE CALLOUT	•       •       a = LOWER CASE LETTER IS SWITCH IDENTIFIER         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       •       •         •       <	2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY	C ###A 3P DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)	3. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE NON-SCHOOL OR OFF-PEAK SCHOOL HOURS TO MINIMIZE DISRUPTION TO SCHOOL OPERATIONS. REQUESTS FO
RE ALARM ANNUNCIATOR PANEL (DISPLAY)60"RE ALARM BELL (EXTERIOR) (CENTERLINE)120"RE ALARM CONTROL PANEL/UNIT (DISPLAY)60"	1 ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT		# D = DIMMER \$ F = FAN SPEED CONTROL FH = FRACTIONAL HORSEPOWER MANUAL	\	ELECTRICAL SHUTDOWNS OF THE OWNERS EQUIPMENT SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF OWNER AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL THE OWNER.
TERCOM (AFEA ONLY)36"TERCOMS (TOP OF DEVICE)48"JLL STATIONS (TOP OF DEVICE)48"	1 TECHNOLOGY PLAN CALLOUT	> = ARROW INDICATED AIMING DIRECTION	CONTROLLER IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER K = KEYED	###AS 3P	4. ALL ROOF PENETRATIONS, FLOOR CHASING OR CORE DRILLING SHALL REQUIRE THE SPECIFIC APPROVAL OF THE OWNER. ALL WORK IN COMMON AREAS, SHAFTS OR OTHER OWNER SPACES MUST BE SPECIFICALLY REVIEWED
HOTOCELLS 144" ECEPTACLES 16"	PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR	LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)	LV# = LOW VOLTAGE / DIGITAL M = MANUAL MOTOR STARTER DISCONNECT		APPROVED BY THE OWNER PRIOR TO ANY WORK BEING PERFORMED.
ECEPTACLES (EXTERIOR)24"ECEPTACLES (GARAGES)24"ECEPTACLES (POOLS)27"	1 FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	OS# = OCCUPANCY SENSOR P = SPST PILOT LIGHT WP = WEATHER PROOF	( FRS NEMA # CIRCUIT BREAKER (RATINGS AS INDICATED)	MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE
ECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX ECEPTACLES IN EQUIPMENT ROOMS 44" EMOTE INDICATING LIGHT (EQUIPMENT ROOMS) 48"	EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)	NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE	# = REFER TO LIGHTING CONTROL DEVICE SCHEDULE ALC AUTOMATIC LOAD CONTROL RELAY	COMBINATION CIRCUIT BREAKER/STARTER AND STARTER	6. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGE RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORI ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FR
EMOTE INDICATING LIGHT (FINISHED AREAS) AFETY SWITCHES (TOP OF DEVICE) FARTERS (TOP OF DEVICE) 48"			BTS BRANCH CIRCUIT TRANSFER SWITCH		ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER. 7. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: VERIFY CONDITION AND AGE OF EXISTING
WITCHES (TOP OF DEVICE)       44"         ELEPHONE, DATA OUTLETS       SAME AS ADJACENT DEVICE, UNO	CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)	CEILING / WALL MOUNTED OCCUPANCY SENSOR	PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO	ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIR NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE
ELEPHONE TERMINAL BOARD (BOTTOM) 6" ELEVISION OUTLETS REFER TO ARCH DRAWINGS SIBLE APPLIANCES (CENTERLINE) 84"	CONNECTION POINT OF NEW WORK TO EXISTING		CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE)		REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING, (AS DATE THE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS CIRCUIT BREAKERS, GENERATOR/UPS SYSTEMS AND LIGHT FIXTURES, 30 YEARS FOR TRANSFORMERS AND
	1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL	O-O D-O EXTERIOR PARKING LOT LIGHT FIXTURE	ONE-DIRECTION SENSING, CEILING/WALL MOUNT CEILING MOUNT, TWO DIRECTION SENSING CEILING MOUNT, FOUR DIRECTION SENSING	ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)	PANELBOARDS, 40 YEARS FOR SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT. 8. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: ELECTRICAL EQUIPMENT SHALL BE LOCATI
ISTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN HE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR LSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO	E1 NUMBER LOWER NUMBER INDICATES SHEET NUMBER	EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE	CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF	TX## TRANSFORMER (TYPE AND RATINGS AS INDICATED)	THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAIN EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO
OTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN OMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.	E1 SECTION CUT DESIGNATION	<ul> <li>EXTERIOR LIT BOLLARD LIGHT</li> <li>EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS</li> </ul>	POLES AS INDICATED)      TRACK-MOUNTED CURRENT LIMITER (## INDICATES	SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)	BY THE AHJ, ENGINEER AND OWNER. 9. FOR FURNISHED EQUIPMENT AND APPLIANCES: CONFIRM THE ELECTRICAL REQUIREMENTS WITH MANUFACTUR
BBREVIATIONS	CIRCUITING & WIRING	INDICATED, FACE HATCHED	AMPERAGE)		INFORMATION AND OTHER TRADES PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY INCLUDES BUT IS NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, CIRCUIT BREAKER, FUSE, WIRING
AMPERE FUSE SIZE MCC MOTOR CONTROL CENTER C ABOVE FINISHED CEILING MFR MANUFACTURER	7 5 3 HOMERUN TO PANELBOARD. INFORMATION AT ARROWS OR IR#I P1 ARE CIRCUIT NUMBERS AND PANELBOARD FOR	EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED	<ul> <li>(D#) DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)</li> <li>ILC LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT</li> </ul>	AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)	AND TERMINATION. WHERE APPLICABLE, REFER TO VENDOR INFORMATION, SUCH AS FOOD SERVICE AND REFRIGERATION DRAWINGS, FOR DEVICE TYPE AND LOCATION.
F ABOVE FINISHED FLOOR MIN MINIMUM G ABOVE FINISHED GRADE MLO MAIN LUGS ONLY	1-3,5,7 BRANCH CIRCUIT CONDUCTOR SIZES.	AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED	P# POWER PACK (# INDICATES TYPE PER SCHEDULE)	ATS# (W/BYPASS) ATS# (W/BYPASS)	ELECTRICAL SUPPLEMENTAL SPECIFICATIONS:
IJAUTHORITY HAVINGMLVMAGNETIC LOW-VOLTAGEJURISDICTIONMOCPMAXIMUM OVERCURRENTIUAIR HANDLING UNITPROTECTION	INDICATES RELAY NUMBER	REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION	PS# PHOTOELECTRIC SWITCH	AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)	1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIO
C AMPERE INTERRUPTING MTD MOUNTED CAPACITY N/A NOT APPLICABLE AMPERE SWITCH SIZE NF NON-FUSED	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT	POWER EQUIPMENT & DEVICES	R##       ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)         TS#       TIME SWITCH	###A	APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUME NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.
AMPERE TRIP SETTING NL NIGHT LIGHT (24HR ON) S AUTOMATIC TRANSFER NRTL NATIONALLY RECOGNIZED	CONDUIT CONCEALED (EMERGENCY)	ELECTRICAL PANELBOARD (SURFACE OR FLUSH	SIMPLEX RECEPTACLE - NEMA 5-20R, UNO	GENERATOR (RATINGS AS INDICATED)	2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STAN
SWITCHTESTING LABORATORYAUDIO VISUAL(CSA, ETL, NSF, UL)AUDIO VISUALNTSNOT TO SCALE	CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION		DUPLEX RECEPTACLE - NEMA 5-20R, UNO	NON-SEPARATELY DERIVED SOURCE	EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TES LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED B' SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENG
SYSTEM OS OCCUPANCY SENSOR R BREAKER P POLE	EXPOSED CONDUIT     EXPOSED CONDUIT (EMERGENCY)	ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO	SEPARATELY DERIVED SOURCE	3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIP
CONDUIT PART PARTIAL CIRCUIT T CATEGORY PH/Ø PHASE TV CABLE TELEVISION SYSTEM PNL PANEL	EXPOSED CONDUIT (EMERGENCY)     FLEXIBLE CONDUIT	PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED	<ul> <li>SPECIAL RECEPTACLE - NEMA TYPE AS NOTED</li> <li>TWIST-LOCK TYPE RECEPTACLE</li> </ul>	### AMPS 480Y/277V 3Ø 4W SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND	ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL E FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.
CTV CLOSED CIRCUIT TELEVISION PNLBD PANELBOARD CANDELA PROVIDE FURNISH AND INSTALL CT CIRCUIT PT POTENTIAL TRANSFORMER	LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)	SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD	G BLANK FACE GFCI FEED THROUGH DEVICE		<ol> <li>ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BEN</li> </ol>
DE APPLICABLE CODE QTY QUANTITY ADOPTED BY JURISDICTION R/REL RELOCATE		ELECTRICAL DISTRIBUTION PANELBOARD		DIGITAL       COMBINATION DIGITAL VOLT METER/AMMETER         VMAM       CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)	OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIF WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE
CURRENT TRANSFORMER RCPT RECEPTACLE R CENTER RLA RUNNING LOAD AMPS CUMULATIVE VOLTAGE DROP RTU ROOFTOP UNIT	CONDUIT TURNING UP	TRANSFORMER DISCONNECT SWITCH - "200/3/150/3R" DENOTES	ORO ISOLATED GROUND TYPE RECEPTACLE*	GFR GROUND FAULT RELAY	REQUIREMENTS. 5. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR U
DEMO DEMOLITION SCCR SHORT-CIRCUIT CURRENT PDT DOUBLE-POLE, RATING	EQUIPMENT TERMINATION	200/3/150/3R AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, MF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB),	市 RECEPTACLE INSTALLED ABOVE COUNTER OR	PFR PHASE FAILURE RELAY	DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MA
DOUBLE-THROW SD SMOKE DUCT DETECTOR PST DOUBLE-POLE, SF SQUARE FEET SINGLE-THROW SPDT SINGLE-POLE,		NO VALUE (200/3/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING	<ul> <li>BACKSPLASH*</li> <li>RECEPTACLE INSTALLED IN CEILING*</li> </ul>	KK# KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)	QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT. 6. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE
ETR/EX EXISTING TO REMAIN ELECTRICAL CONTRACTOR SPST SINGLE-POLE, EXHAUST FAN SINGLE-THROW	WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:	COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES	RECEPTACLE INSTALLED IN FLOOR*	ST       SHUNT TRIP         AM       AMMETER (RANGE AS SPECIFIED OR REQUIRED)	STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED
1 EMERGENCY SSBJ SUPPLY-SIDE BONDING IS ENERGY MANAGEMENT JUMPER	SWITCHED HOT (PHASE) CONDUCTORS (SHOWN	30/3/15/1/3R AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING. NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (200/3/150/1) FOR	RECEPTACLE INSTALLED VIA DROP CORD*	VM     VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)	7. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COO THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARC WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONC
SYSTEM ST SHUNT TRIP V ELECTRONIC LOW-VOLTAGE SWBD SWITCHBOARD VC ELECTRIC WATER COOLER SWGR SWITCHGEAR	TRAILING NEUTRAL)	NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING	RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS: C = AUTOMATICALLY CONTROLLED CH = CLOCK HANGER TYPE		WALLS SHALL BE SCHEDULE 80 PVC OR LFMC; OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.
AP FIRE ALARM ANNUNCIATOR TBB TELECOMMUNICATIONS PANEL BONDING BACKBONE	UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN	MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO	G=RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE	AS AMMETER SWITCH	8. WHEN CONCRETE TRENCHING/CORING IS REQUIRED, THE METHODS, DEPTHS, AND LOCATIONS SHALL BE PRE-A BY OWNER, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. X-RAY SLAB AS NECESS,
CP FIRE ALARM CONTROL PANEL TBD TO BE DETERMINED A FAULT CURRENT AMPS TGB TELECOMMUNICATIONS AVAILABLE GROUND BUS BAR	LEADING NEUTRAL) NOTE: HASH MARKS INDICATE QUANTITY OF	VFD VARIABLE FREQUENCY DRIVE	H = HORIZONTALLY MOUNTED S = MANUALLY CONTROLLED SP / TVSS = SURGE PROTECTION	VS VOLTMETER SWITCH	AVOID DAMAGING ANY UNDER-SLAB UTILITIES OR STRUCTURE. SLAB REPLACEMENT SHALL BE INSTALLED WITH DOWELLING AND REINFORCED CONCRETE AS DIRECTED BY THE STRUCTURAL ENGINEER. WHERE SLAB ON GRACUT AND REMOVED FOR TRENCHING THE CONTRACTOR SHALL INSTALL MOISTURE BARRIER PER OWNER'S
U FAN COIL UNIT TL TWISTLOCK FINISHED FLOOR TMGB TELECOMMUNICATIONS			TR = TAMPER RESISTANT TV = TELEVISION	UH15 DENOTES MINUTES OF DEMAND INTERVAL	REQUIREMENTS. PROVIDE 3/4" MINIMUM CONDUITS ROUTED THROUGH SLAB AND STUBBED UP INTO DEVICES. F DECK, THE FLOOR SHALL BE SLEEVED AND EQUIPPED WITH THE APPROPRIATE LISTED ASSEMBLY. PROVIDE 3/4
A FULL LOAD AMPS MAIN GROUND BUS BAR R FLOOR TX/XFMR TRANSFORMER C GENERAL CONTRACTOR TYP TYPICAL	EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)	<ul><li>EMERGENCY POWER OFF BUTTON</li><li>STOP-START PUSH BUTTON CONTROL STATION</li></ul>	USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT	CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED	CONDUITS ROUTED BELOW SLAB, TIGHT TO STRUCTURE, AND STUBBED UP INTO DEVICES. 9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT AR
C GROUNDING ELECTRODE U/F UNDERFLOOR CONDUCTOR U/G UNDERGROUND S GROUNDING ELECTRODE U/S UNDERSLAB	ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)	HAND-OFF-AUTO PUSH BUTTON CONTROL STATION	•••• MULTI-OUTLET ASSEMBLY	POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED	ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.
SYSTEM UH UNIT HEATER R GROUND FAULT RELAY UNO UNLESS NOTED OTHERWISE	BRANCH CIRCUIT CONDUCTOR TABLE			SPD SURGE-PROTECTIVE DEVICE	10. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PF ORDER.
GROUND UPS UNINTERRUPTIBLE POWER ISOLATED GROUND SUPPLY C SHORT CIRCUIT CURRENT VD VOLTAGE DROP	WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN: NEUTRAI	OVERHEAD PADDLE FAN	☑ ▼ ▼ DATA OUTLET ☑ ▼ ▼ MULTI-SERVICE OUTLET; TELEPHONE AND DATA	GROUND CONNECTION     GROUND CONNECTION WITH TEST WELL	11. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO. 12. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTA
/J-BOX_JUNCTION BOX VFD VARIABLE FREQUENCY LINEAR FEET DRIVE	# OF POLES HOT (PHASE)* (GROUNDED)**GROUNDING*** 1P (1) (1) UNO (1)		ABOVE COUNTER, TYP		REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
ALOCKED ROTOR AMPSVSVACANCY SENSORG/LTSLIGHTING/LIGHTSWWIREAUMAKE-UP AIR UNITW/WITH	2P (2) (1) UNO (1)		WALL, TYP FLOOR, TYP	- • • I LIGHTNING ARRESTER	13. ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SI LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SH AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE
AX MAXIMUM WP WEATHER PROOF CA MINIMUM CIRCUIT AMPACITY WR WEATHER RESISTANT CB MAIN CIRCUIT BREAKER WT WATERTIGHT	3P (3) (1) UNO (1)		A MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	$- \neq \text{CONTACT (OPEN OR CLOSED)}$	TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL. 14. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED
XP EXPLOSION PROOF	<ul> <li>* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED</li> </ul>		A MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND	HEATER	LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCAT RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT B
	THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.		POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	MOTOR	BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTAC NOTED OTHERWISE. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVIC
INETYPE LEGEND	** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A		POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS	## BLOCK LOAD KW OR KVA	LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTRE IF ALL PROTECTED DEVICES ARE LABELED PER CODE.
HROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN	MULTI-WIRE BRANCH CIRCUIT, UNO.		THERMOSTAT	$\times F\# \times FP\#$ FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET	15. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED
OMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS XISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK ND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE.	WHERE INDICATED.		Image: Description of the second s		OTHERWISE.
HE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE IEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT	CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING				16. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS ( LESS.
HENDED TO FOLLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, HICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR ESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION					17. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH
RDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING		-		—	18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE
TC.	_`		* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE		COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. 19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWI
XISTING NEW	B SIGNALING BUZZER		REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE		CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETR EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MA
EMOLISH — — — FUTURE	T LV TRANSFORMER		INFORMATION.		MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. I ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT W CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILD
HE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE IEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT ITENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, (HICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR ESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION OCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD RDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING INETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, TC.	REQUIREMENTS. SIGNALING BELL B SIGNALING BUZZER		COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.		<ul> <li>CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LLESS.</li> <li>17. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL BUSHING.</li> <li>18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJ COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRI</li> <li>19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHER CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE E EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACE MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFI ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCH CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDU AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTACOORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHE</li> <li>20. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONI</li> </ul>
CIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS: PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTION TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMME THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS. THER	IDATIONS. AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGR	NOTE: PROJECT IS DESIGNED IN COM ONDUIT SHALL BE INSTALLED WITH IS NOT AN EXHAUSTIVE LIST. PROJEC	ODES. MPLIANCE WITH THE FOLLOWING CODES. THIS CT SHALL COMPLY WITH ALL APPLICABLE QUIREMENTS. REFER TO THE SPECIFICATIONS		20. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FO ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE DI WORK.
HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL FURNACE CONTROL WIRING, TIMERS, AND SIMILAR CONTROLS. PROVI	VIRING, DUCT E CONDUIT 9. MINIMUM BEND RADIUS FOR COMMUNICATIONS CONE	DUIT IS 6 TIMES THE INSIDE ELECTRICAL CODE: 2017 NATIONAL E	ELECTRICAL CODE, (NFPA 70)		21. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR
FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK V NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WIT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.			AL BUILDING CODE		INFORMATION. 22. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
2. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO A			NAL TESTING:		23. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWIS
MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS W APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIC INSTALLATION.		E LOCATIONS FOR ALL LOW UTRY (120V AND HIGHER) TO OWNER CONTRACTOR'S BID SHALL INCLUDE	PROVISIONS TO PROVIDE ALL SERVICES		
<ol> <li>DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTER TILE, UNO.</li> </ol>	FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DC	WN TRANSFORMERS AS REQUIRED. ATIONS WITH SYSTEM INSTALLER ATIONS WITH SYSTEM INSTALLER	SUILDING SYSTEMS COMMISSIONING INCLUDING AL TESTING, AND RELATED DOCUMENTATION, IIS INCLUDES RETAINING THE SERVICES OF A		
4. PROVIDE BOX AND [3/4"] CONDUIT FROM EACH THERMOSTAT LOCATIC	N TO 11. ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CON	3RD PARTY REGISTERED DESIGN PRO TO THE LATEST ADOPTED EDITION O	OFESSIONAL OR APPROVED AGENCY. REFER F THE APPLICABLE ENERGY CODE FOR MORE		
MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICA COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANIC CONTRACTOR AND OWNER PRIOR TO ROUGH-IN.	LE). WHERE APPLICABLE.	REQUIREMENTS PRIOR TO FINAL INS	COMPLETE ALL RELATED COMMISSIONING PECTIONS IN ACCORDANCE WITH THE AND MANUFACTURER'S INSTRUCTIONS.		
5. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM	REMAIN APPARENT IN ALL EXPOSED APPLICATIONS. P OW VOLTAGE FROM PAINTING AND OVERSPRAY (INCLUDES CABLE 1	ROTECT ALL EXPOSED CABLING			
	" AFF. AT A IS IN CABLE TRAY). DINATE				
WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COO	LARM 13. CABLES SHALL BE ROUTED THROUGH THE BUILDING ( UNLESS NOTED OTHERWISE. EXPOSED CABLING SHA EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PER	LL NOT BE ROUTED IN AREAS RMITTED BY THE OWNER. IN AREAS			
WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE <b>[3/4"]</b> CONDUIT, UNLESS NOTED OTHERWISE. COO REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE A SPECIFICATIONS.					
<ul> <li>WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COO REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE A SPECIFICATIONS.</li> <li>6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATIO BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-G</li> </ul>	OUTLETWHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BING PLASTERWORKMAN LIKE MANNER IN ACCORDANCE WITH THE				
<ul> <li>WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COO REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE / SPECIFICATIONS.</li> <li>6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATIO BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-G RING AND [1"] CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CE UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOX CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DI</li> </ul>	OUTLETWHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BING PLASTERWORKMAN LIKE MANNER IN ACCORDANCE WITH THEING SPACE,REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAES WITHINOR NEAREST ACCESSIBLE CEILING SPACE.AWINGS.AWINGS.	GE CABLING TO THE CABLE TRAY			
<ul> <li>WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COO REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE / SPECIFICATIONS.</li> <li>6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATIO BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-G RING AND [1"] CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CE UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOX</li> </ul>	OUTLETWHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BING PLASTERWORKMAN LIKE MANNER IN ACCORDANCE WITH THEING SPACE,REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTASWITHINOR NEAREST ACCESSIBLE CEILING SPACE.AWINGS.14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNA	GE CABLING TO THE CABLE TRAY GELEVATOR EQUIPMENT ROOMS, ATED BY THE OWNER SHALL BE			
<ul> <li>WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 9 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COO REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE / SPECIFICATIONS.</li> <li>6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATIO BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-G RING AND [1"] CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CE UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOX CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DI COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND S</li> </ul>	OUTLETWHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BING PLASTERWORKMAN LIKE MANNER IN ACCORDANCE WITH THEING SPACE,REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTASWITHINOR NEAREST ACCESSIBLE CEILING SPACE.AWINGS.14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVINGFACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNACONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING	GE CABLING TO THE CABLE TRAY GELEVATOR EQUIPMENT ROOMS, ATED BY THE OWNER SHALL BE			



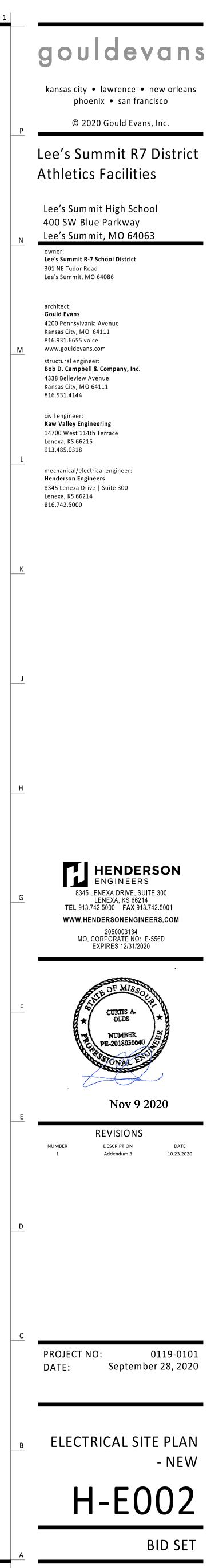


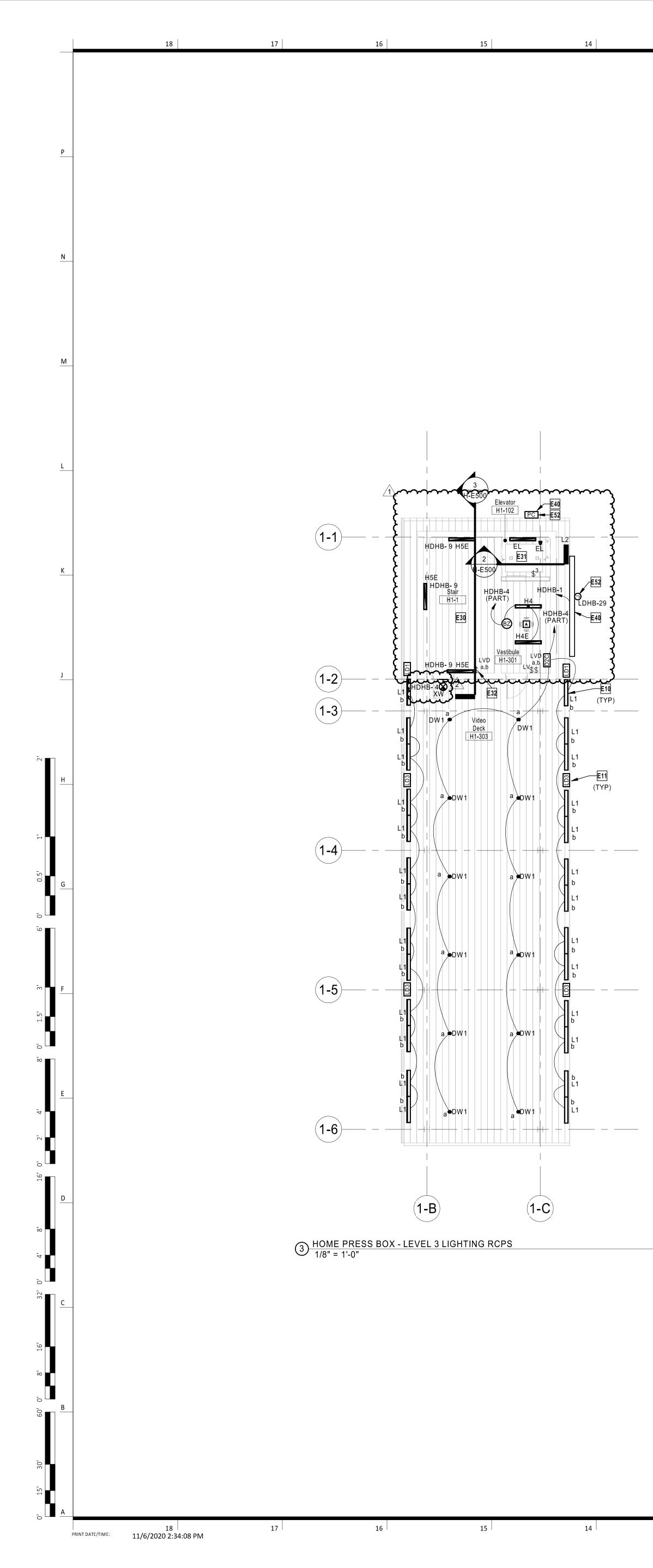




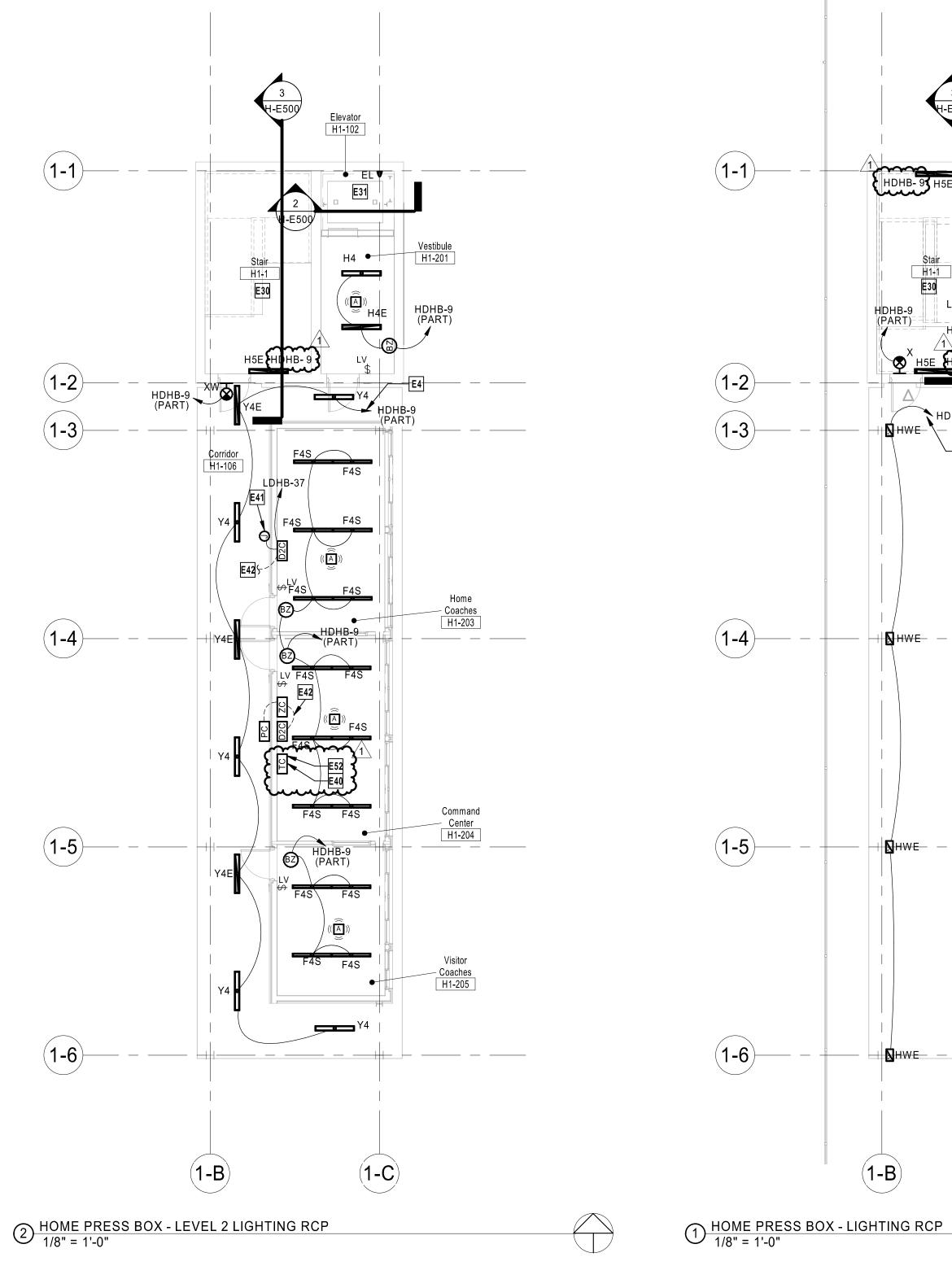
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					LAN NOTES:
					TION OF EXISTING TENNIS COURT
				E15 NEW LOCATION OF PROVIDE NEW FEED COURT LIGHTING CA EXISTING SIZE. RE-	EXISTING TENNIS COURT LIGHT POLES. IER FROM POLE LOCATION TO TENNIS IBINET. NEW FEEDER SHALL MATCH AIM FIXTURES TO MAINTAIN UNIFORM ISS THE TENNIS COURTS.
				CONTROLLER. PRO	EXISTING TENNIS COURT LIGHTING VIDE NEW FEEDER FROM CONTROLLER EEDER SHALL MATCH EXISTING.
				CONDUIT FOR ELEC CONDUIT BETWEEN ELECTRICAL ONE-LI	DWING: 2" CONDUIT FOR TELECOM, TRICAL FEEDER, AND (1) 1" SPARE BUILDINGS AS SHOWN. REFER TO NE DIAGRAM ON SHEET H-E800 FOR R CONDUIT SIZING. COORDINATE - ENGINEER.
				DIAGRAMMATIC PUF DEPTH OF MEDIUM	D PRIMARY ROUTING SHOWN FOR POSES. COORDINATE ROUTING AND /OLTAGE CONDUITS WITH CIVIL TO ONE-LINE DIAGRAM FOR CONDUIT
				E22 HAND HOLE FOR CC MEDIUM VOLTAGE II	NNECTION TO EXISTING POLE MOUNTED
				E44 PROVIDE THE FOLLO CONDUIT FOR ELEC CONDUIT BETWEEN ELECTRICAL ONE-LI	DWING: 2" CONDUIT FOR TELECOM, TRICAL FEEDER, AND (1) 1" SPARE BUILDINGS AS SHOWN. REFER TO NE DIAGRAM ON SHEET H-E801 FOR R CONDUIT SIZING. COORDINATE
				ROOM AT SCHOOL E	DUITS FOR TELECOM. ROUTE FROM IDF UILDING TO CONCESSION BUILDING. NG WITH CIVIL ENGINEER AND OWNER.
					CAL ONE-LINE ON SHEET H-E800 FOR
	   			E55 PROVIDE EMPTY 1- H1-204 IN PRESS BO TERMINATE CONDU	/4" CONDUIT FROM COMMAND CENTER X TO EXISTING SCOREBOARD. T IN HAND HOLE NEAR SCOREBOARD ECTION OF LOW VOLTAGE WIRING.
				SCOREBOARD AS SI ROUTED PARALLEL PULL (4)#10, #10G F0	ER CONNECTION TO EXISTING HOWN. NEW CONDUIT SHALL BE TO THE EMPTY LOW-VOLTAGE CONDUIT. OR THIS CIRCUIT. CURRENT IGLE PHASE BUT PROPOSED NEW E 3-PHASE.
				Lunn	·······································

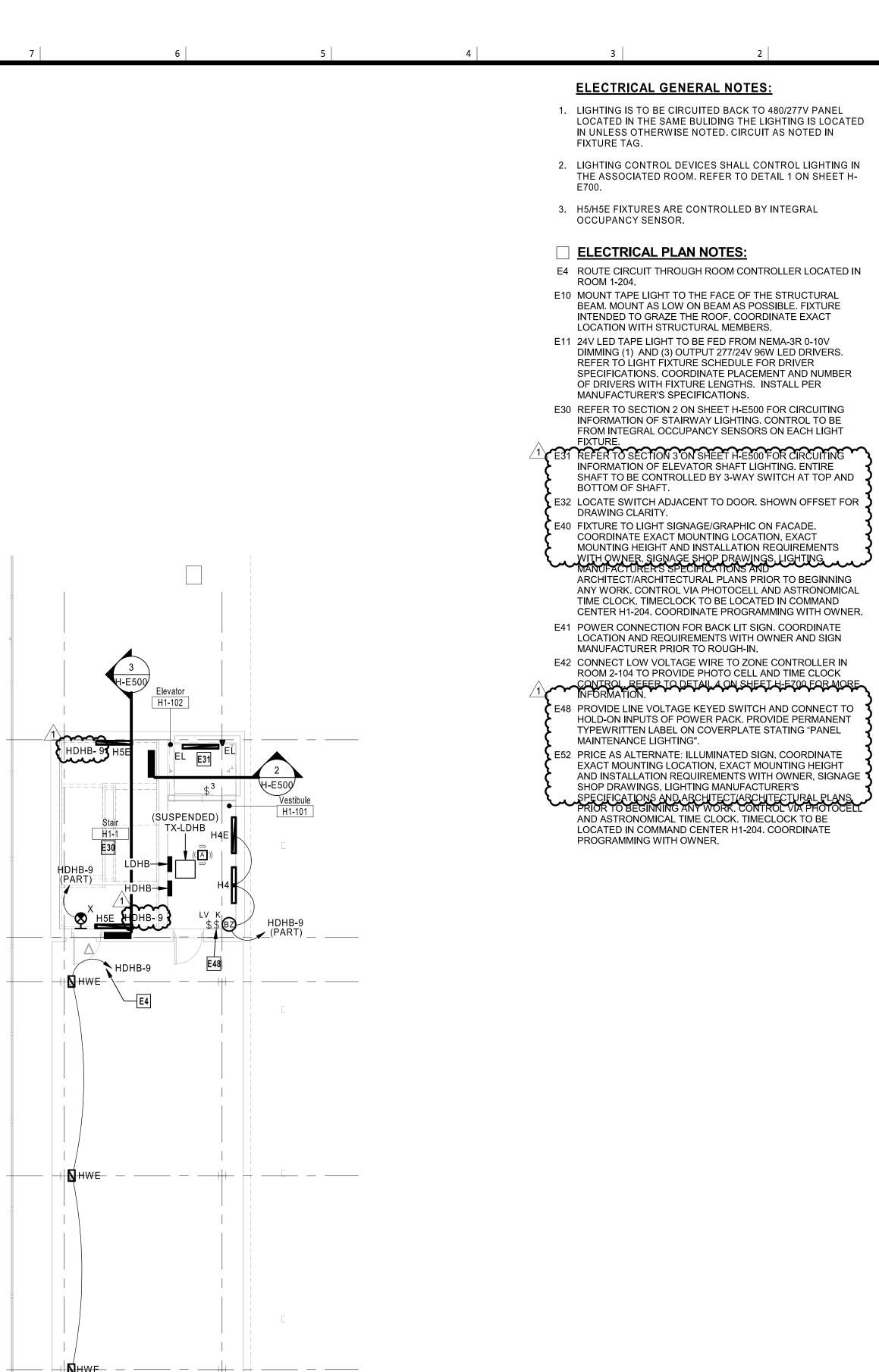
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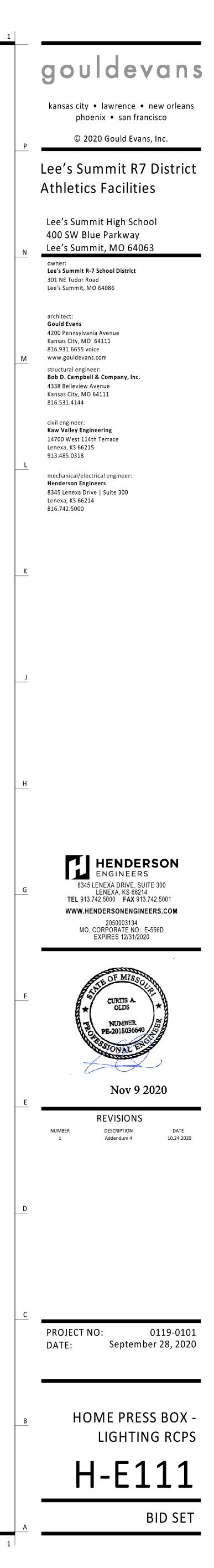


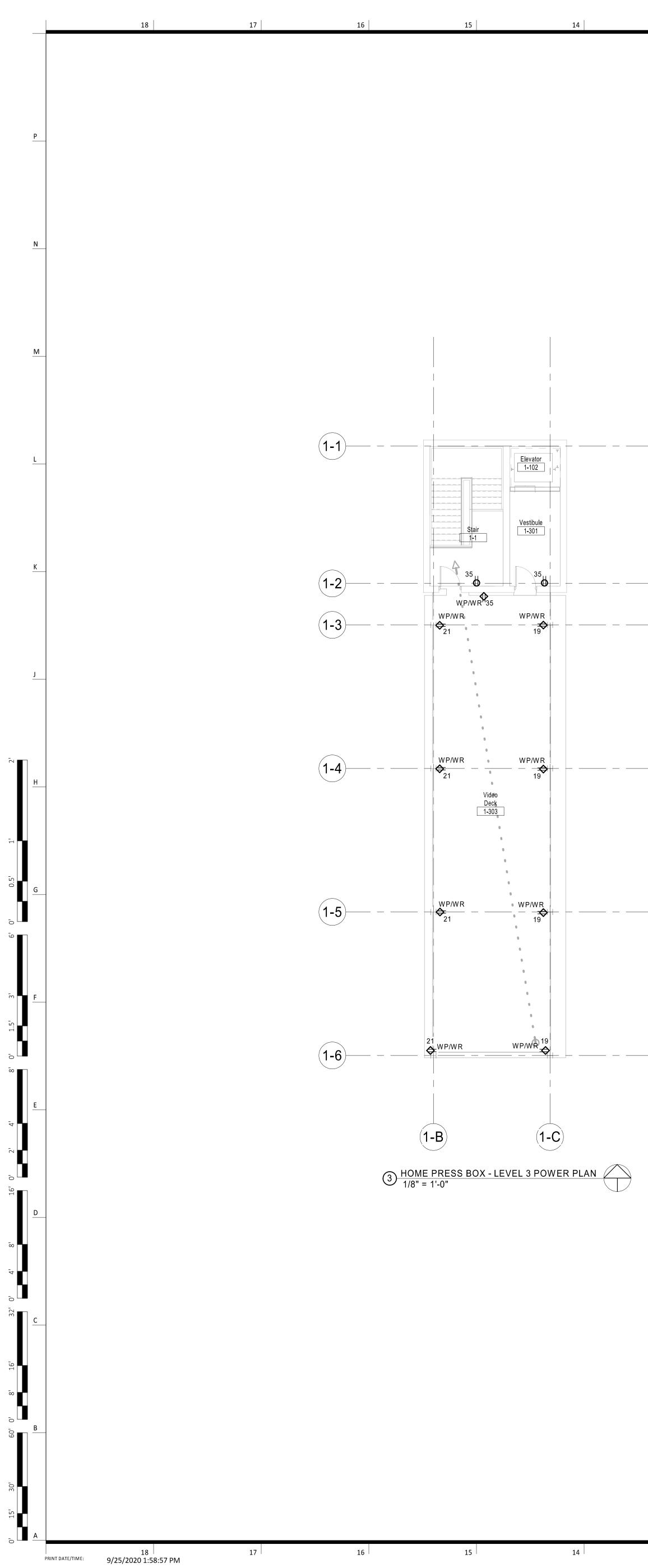
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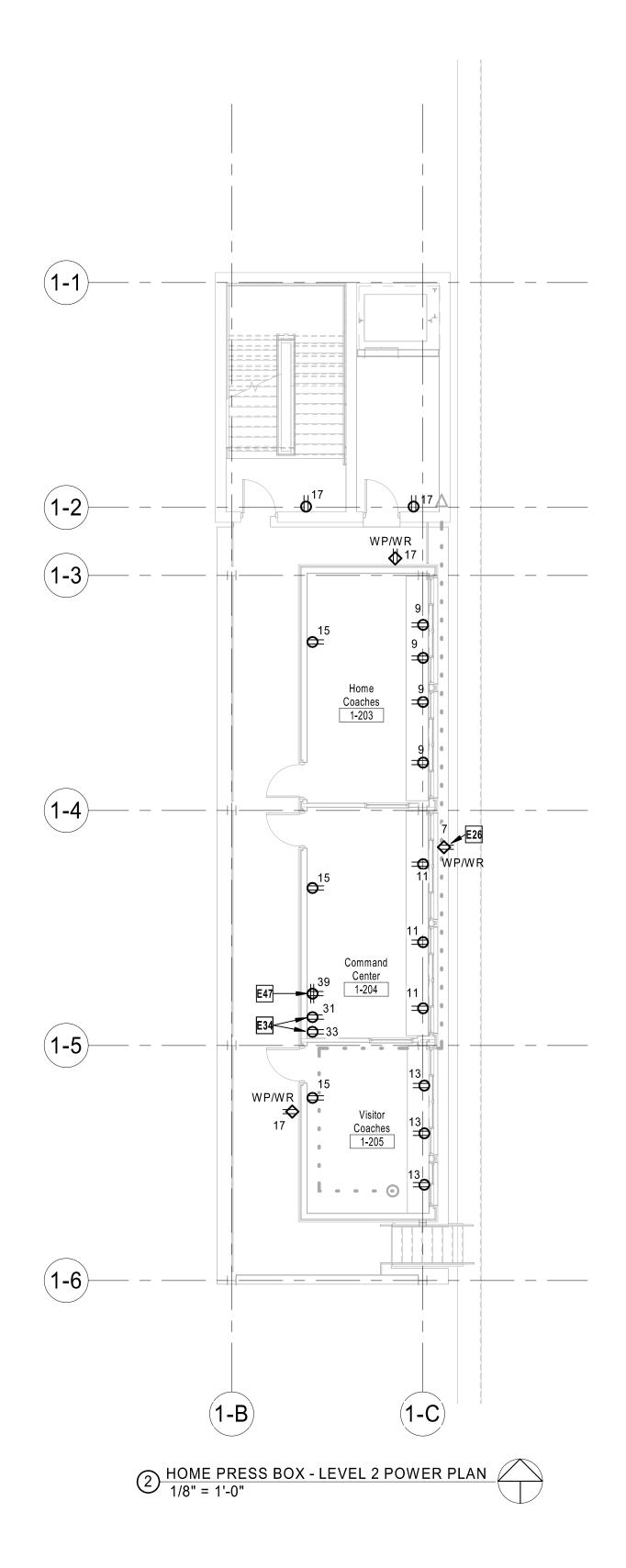
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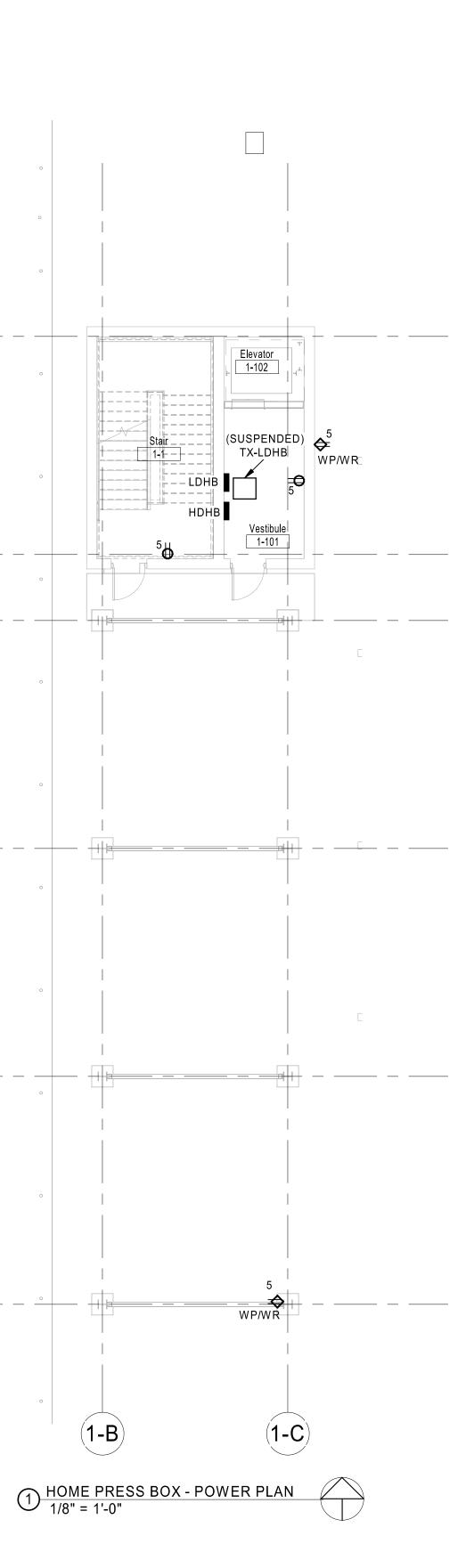
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					RAL NOTES: E CIRCUITED TO 208/120V PANEL IN AS NOTED BY NUMBER ADJACENT

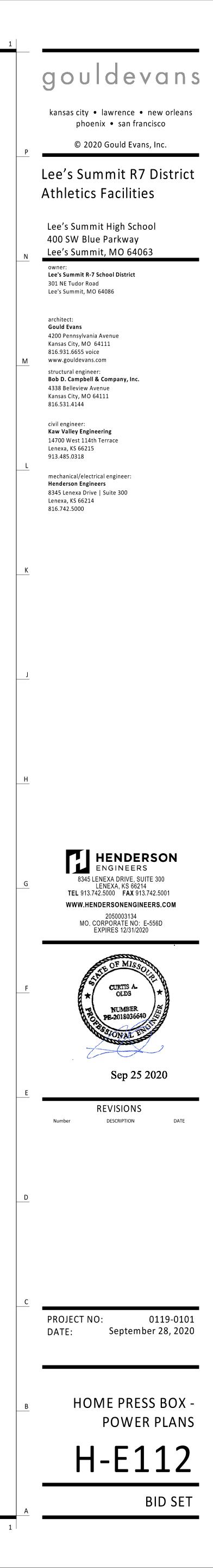
ELECTRICAL PLAN NOTES:

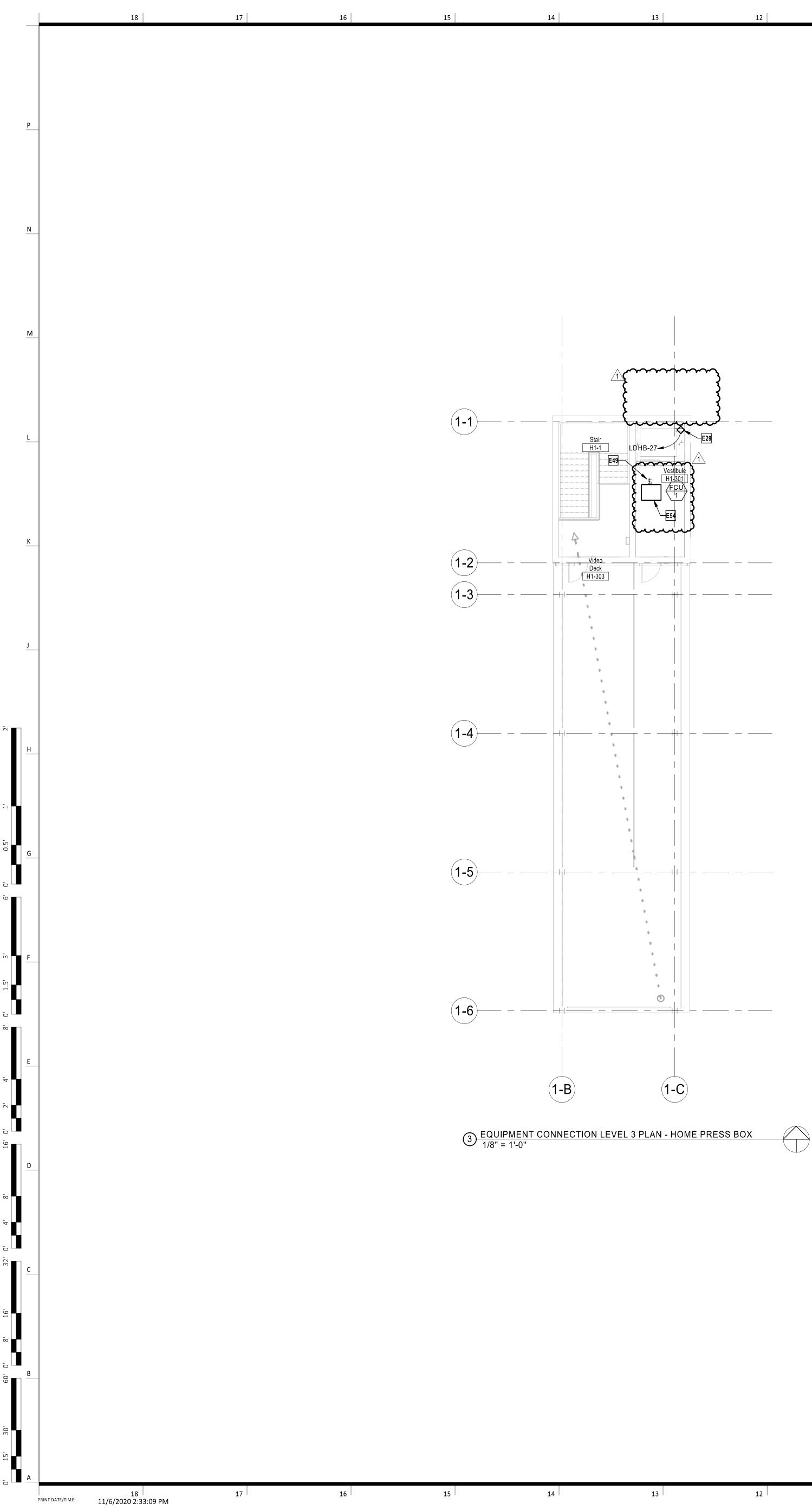
E26 DEDICATED 120V RECEPTACLE FOR HUDL CAMERA. E34 COORDINATE LOCATION OF PA SYSTEM CIRCUITS WITH OWNER PRIOR TO ROUGH-IN.

E47 POWER CONNECTION FOR IT RACK. COORDINATE FINAL LOCATION WITH IT INSTALLER.

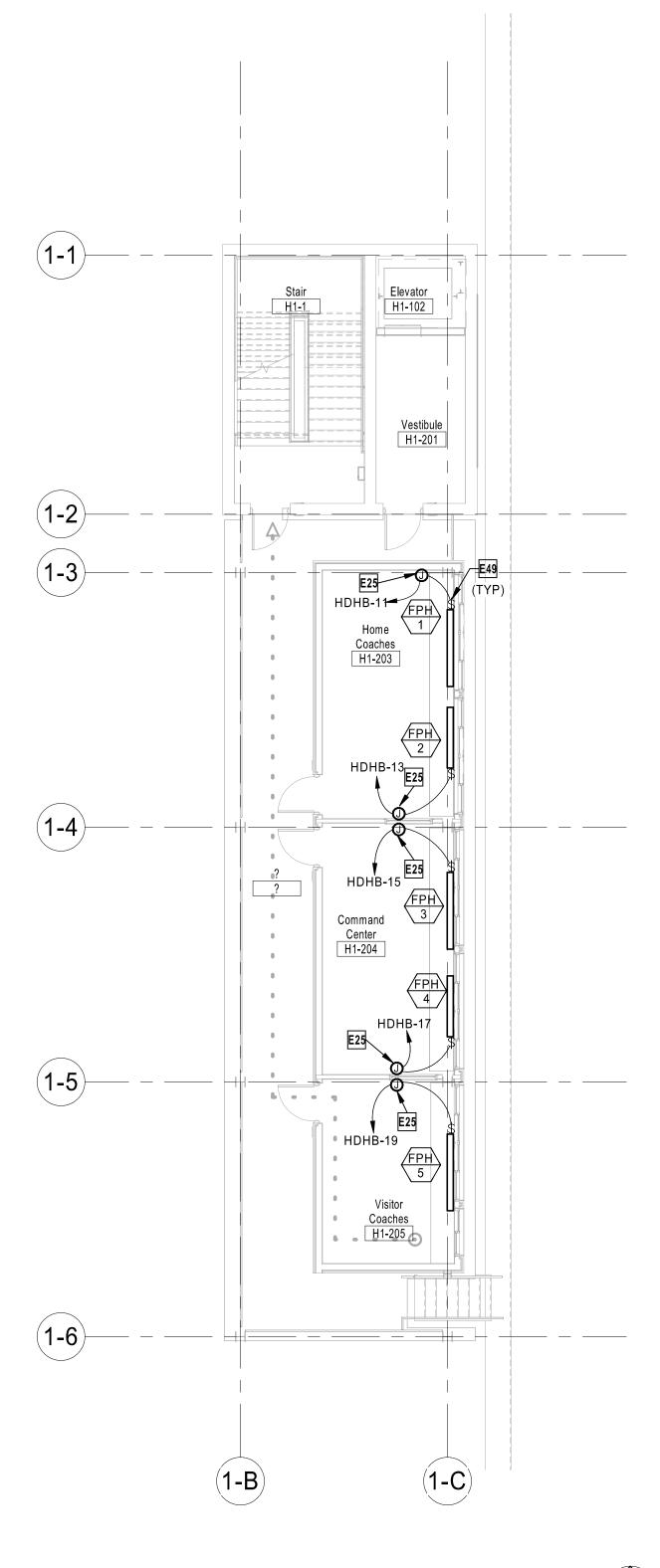


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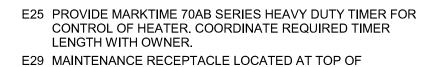


EQUIPMENT CONNECTION LEVEL 2 PLAN - HOME PRESS BOX 1/8" = 1'-0"

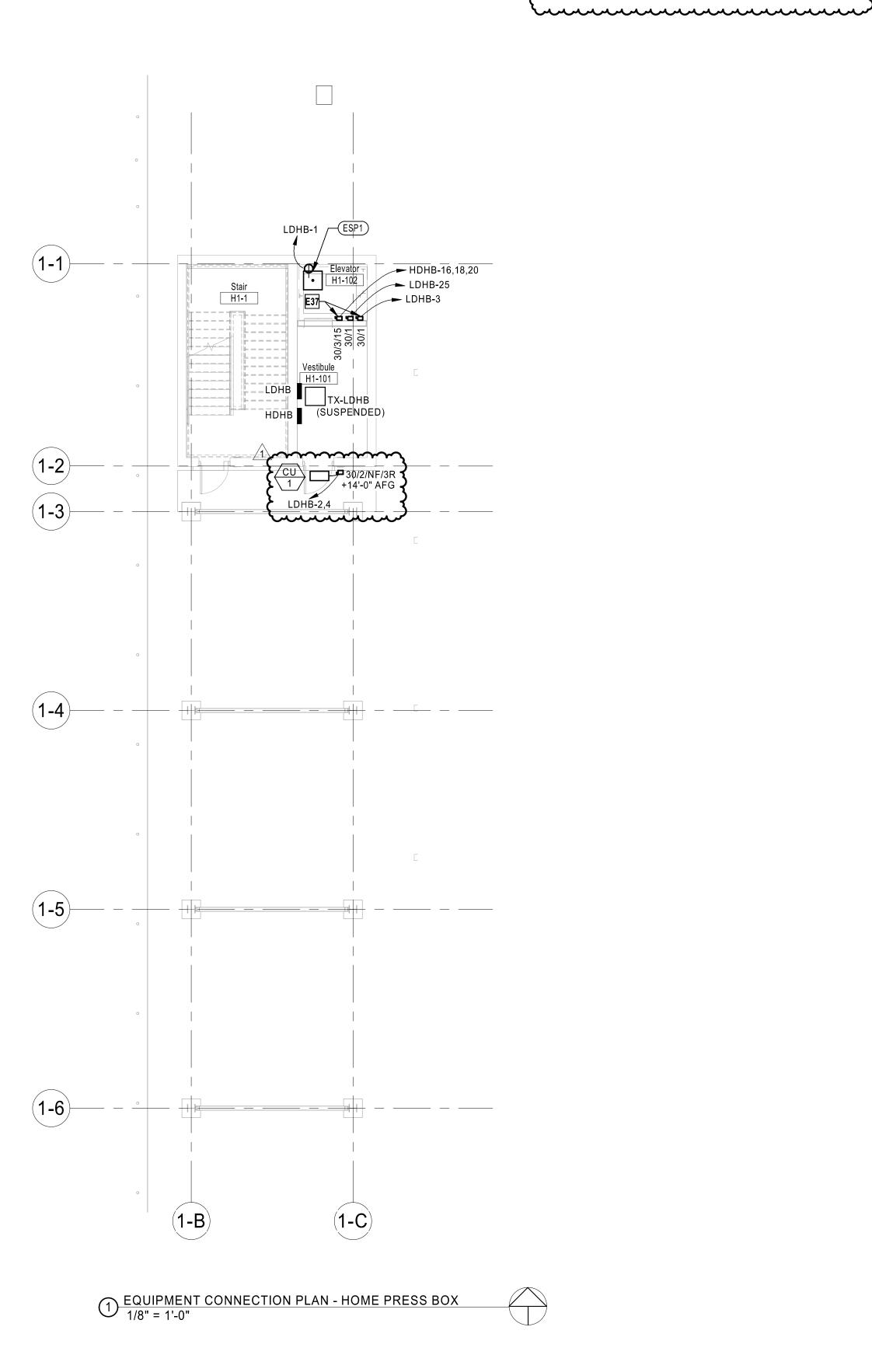
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## ELECTRICAL PLAN NOTES:



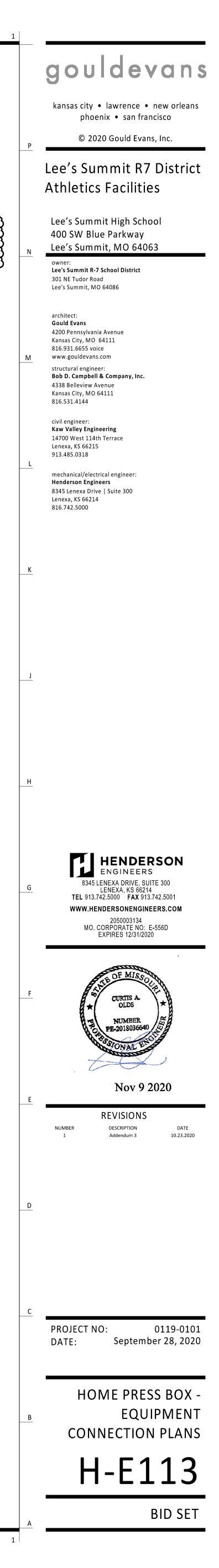
- ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR.
- E37 POWER CONNECTION FOR ELEVATOR, CAB LIGHTING, AND CAB HVAC. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
- E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET E54 CU-1/FCU-1 EQUIPMENT CONTAINS A SINGLE POINT OF
- CONNECTION AT CU-1. PROVIDE CONDUIT FOR CONNECTION BETWEEN FCU-1 AND CU-1 FOR EQUIPMENT INTERCONNECTION SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

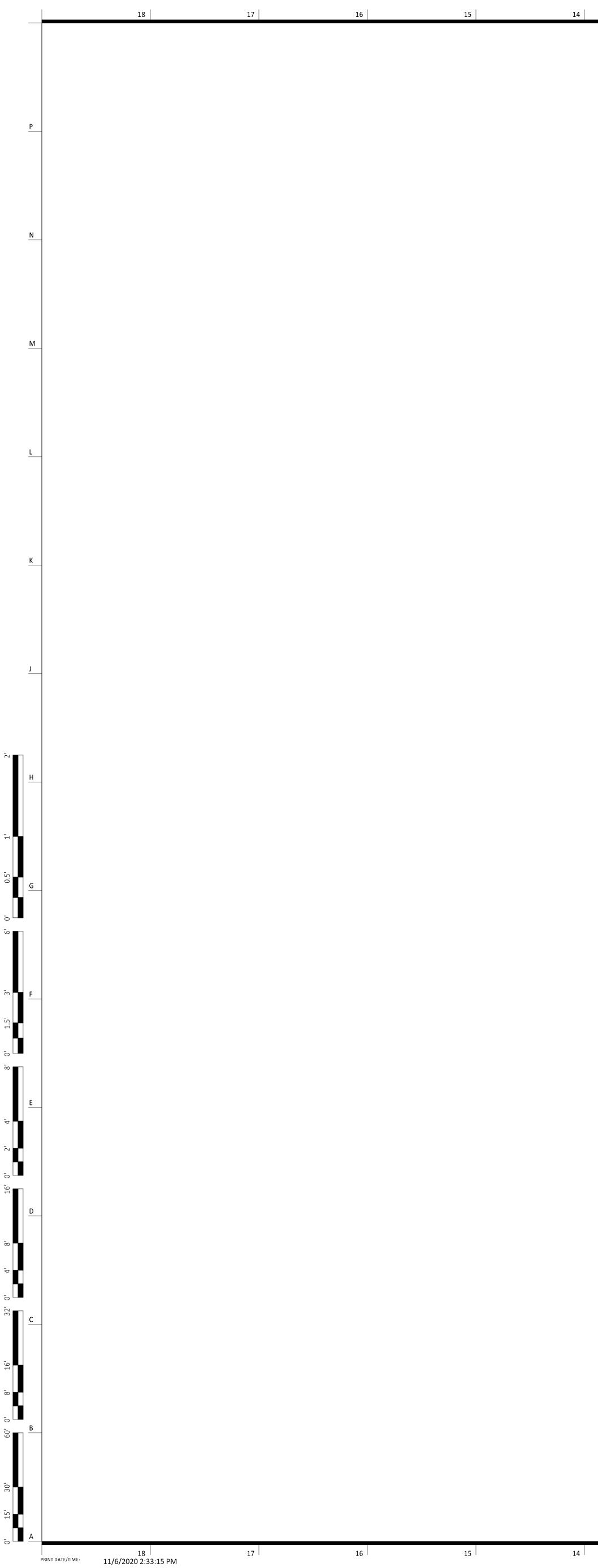


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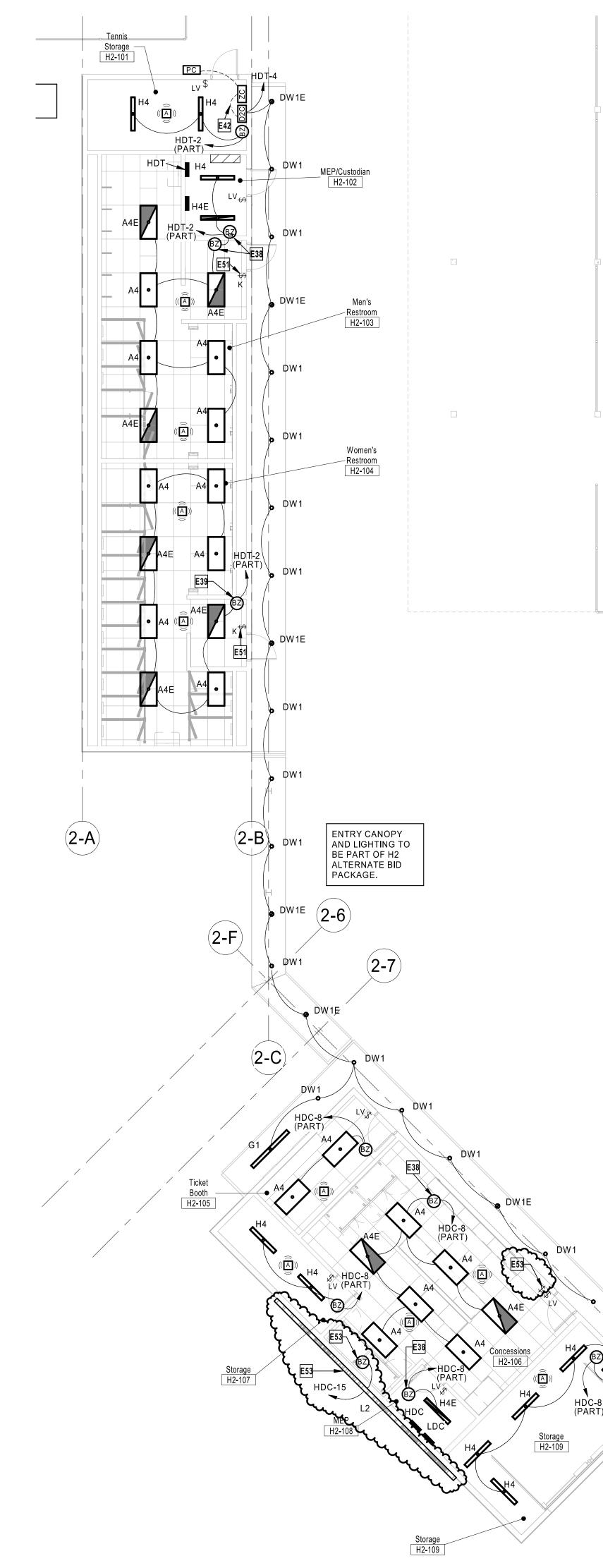












1 HOME GATEWAY - LIGHTING RCP 1/8" = 1'-0"

13	12	11	10	9	8	

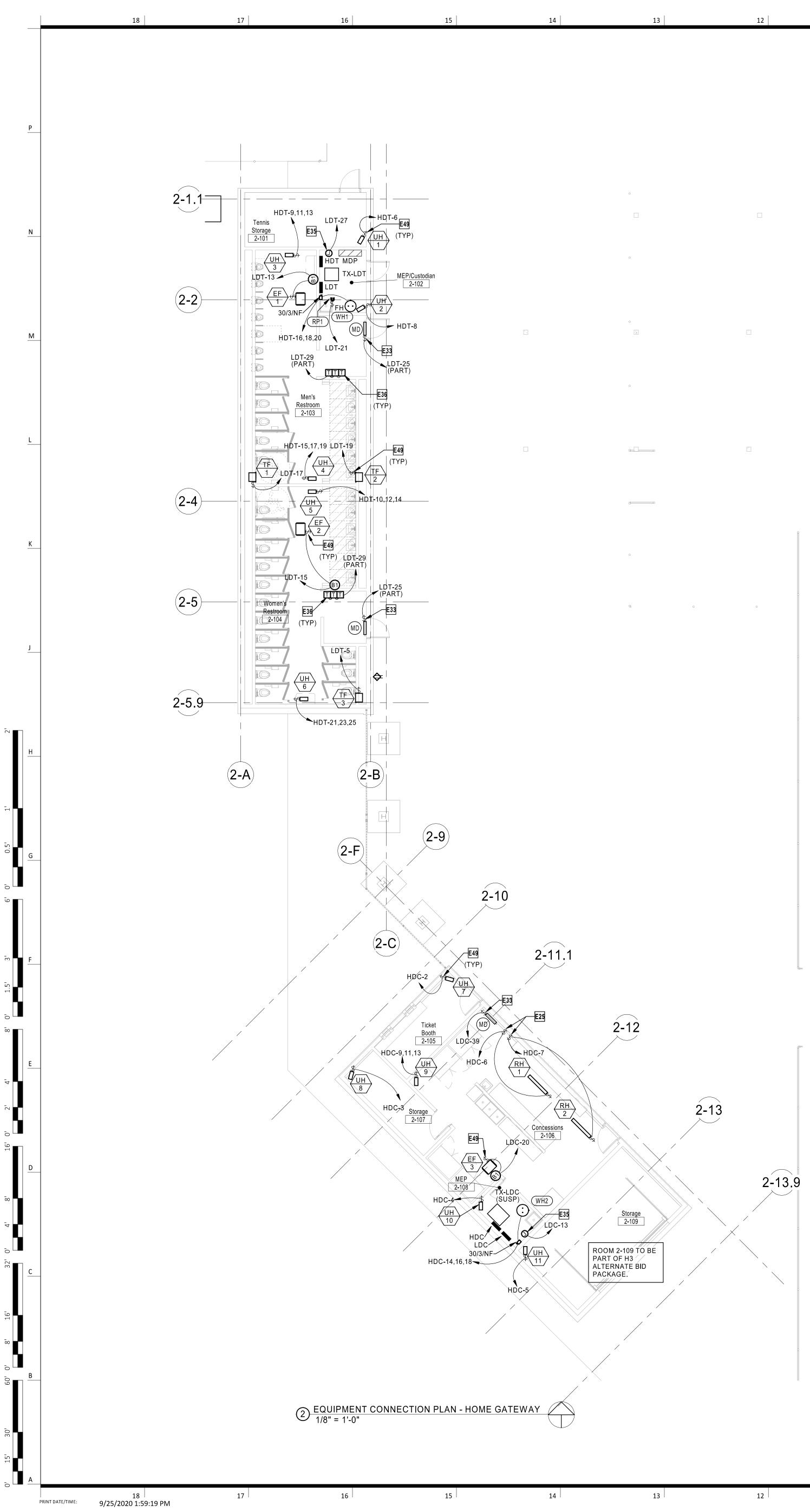
7	6	5	4	3	2	1
				LOCATED IN THE SAME IN UNLESS OTHERWISI FIXTURE TAG. 2. LIGHTING CONTROL DE	CUITED BACK TO 480/277V PANE BULIDING THE LIGHTING IS LOC NOTED. CIRCUIT AS NOTED IN EVICES SHALL CONTROL LIGHTIN M. REFER TO DETAIL 1 ON SHEE	ATED IG IN
				THE ASSOCIATED ROO H-E700 FOR LIGHTING E39 LIGHTING CONTROL D THE ASSOCIATED ROO H-E700 FOR LIGHTING E42 CONNECT LOW VOLTA ROOM 2-104 TO PROVI CONTROL. REFER TO INFORMATION. E53 CONCESSION STAND I EXACT MOUNTING LOO AND INSTALLATION RE SHOP DRAWINGS, LIG SPECIFICATIONS AND PRIOR TO BEGINNING POWER PACK AND LO ROOM H2-106 OCCUPA VOLTAGE SWITCH AFT ILLUMINATED SIGN TO	AN NOTES: EVICES SHALL CONTROL LIGHTIN DM. REFER TO DETAIL 3 ON SHEE CONTROL INFORMATION. EVICES SHALL CONTROL LIGHTIN DM. REFER TO DETAIL 2 ON SHEE CONTROL INFORMATION. GE WIRE TO ZONE CONTROLLER DE PHOTO CELL AND TIME CLOC DETAIL 4 ON SHEET H-E700 FOR M CHON-OAD SHE OF POWER AND LUMINATED SIGN. COORDINATE CATION, EXACT MOUNTING HEIGH SQUIREMENTS WITH OWNER, SIG HTING MANUFACTURER'S ARCHITECT/ARCHITECTURAL PL/ ANY WORK. CONTROL SIGN VIA S WOLTAGE AND CONCESSIONS NCY SENSORS. PROVIDE LINE TER POWER PACK IN SERIES WITH ACT AS A MASTER OVERRIDE SV CONCOMPANY SALES OVERRIDE SV	T NG IN T X IN K MORE T NAGE ANS SLAVE SLAVE S H WITCH.

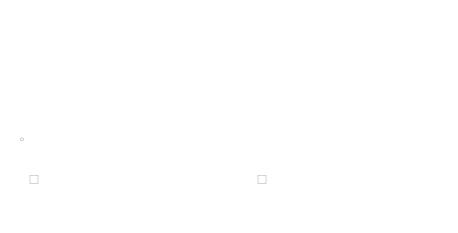
ROOM 2-109 TO BE PART OF H3 ALTERNATE BID PACKAGE.

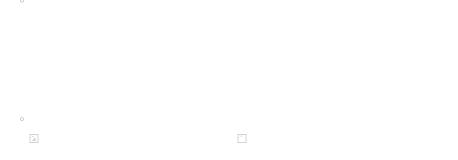
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gouldevans kansas city • lawrence • new orleans phoenix • san francisco © 2020 Gould Evans, Inc. Lee's Summit R7 District Athletics Facilities Lee's Summit High School 400 SW Blue Parkway Lee's Summit, MO 64063 owner: Lee's Summit R-7 School District 301 NE Tudor Road Lee's Summit, MO 64086 architect: Gould Evans 4200 Pennsylvania Avenue Kansas City, MO 64111 816.931.6655 voice www.gouldevans.com M structural engineer: Bob D. Campbell & Company, Inc. 4338 Belleview Avenue Kansas City, MO 64111 816.531.4144 civil engineer: Kaw Valley Engineering 14700 West 114th Terrace Lenexa, KS 66215 913.485.0318 mechanical/electrical engineer: Henderson Engineers 8345 Lenexa Drive | Suite 300 Lenexa, KS 66214 816.742.5000 HENDERSON ENGINEERS 8345 LENEXA DRIVE, SUITE 300 LENEXA, KS 66214 TEL 913.742.5000 FAX 913.742.5001 WWW.HENDERSONENGINEERS.COM 2050003134 MO. CORPORATE NO: E-556D EXPIRES 12/31/2020 Nov 9 2020 REVISIONS DATE 10.23.2020 DESCRIPTION NUMBER Addendum 3 1 PROJECT NO: 0119-0101 September 28, 2020 DATE: HOME GATEWAY -LIGHTING RCP H-E121 BID SET

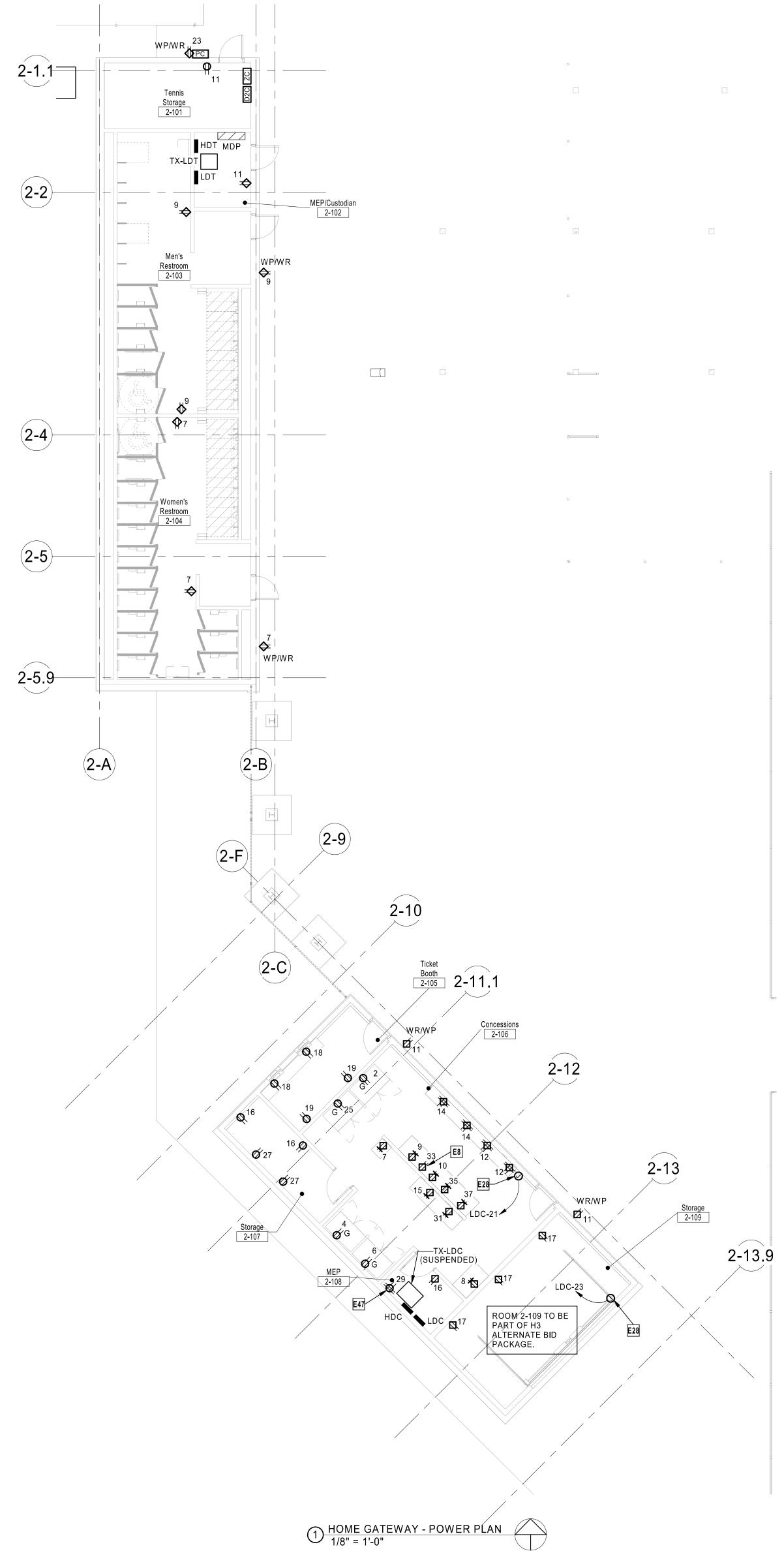
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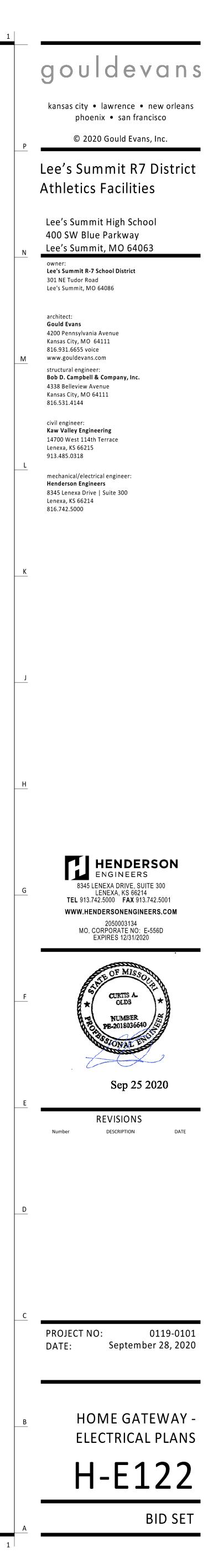


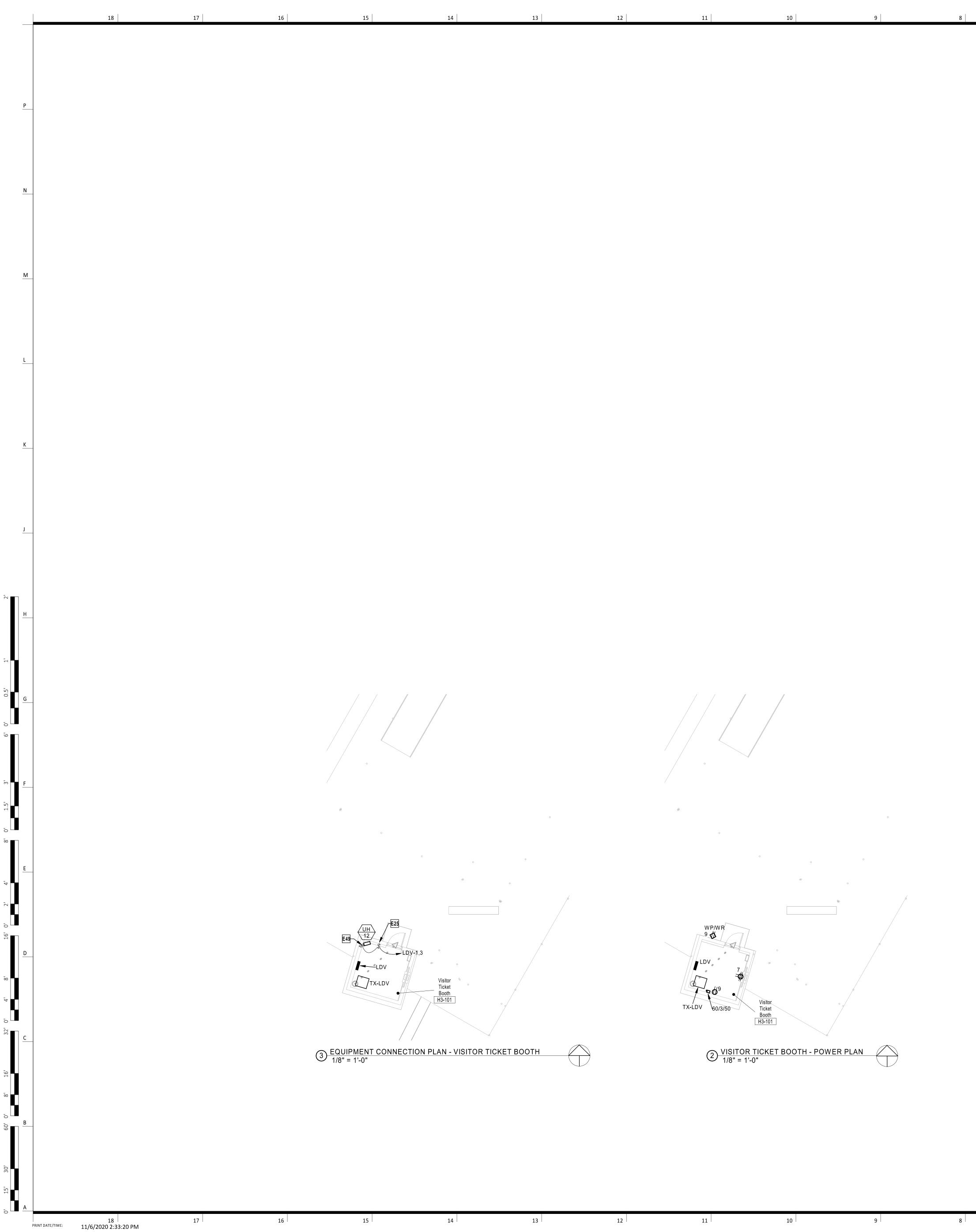






7	6	5	4	3	2
				ELECTRICAL GENE	RAL NOTES:
					E CIRCUITED TO 208/120V PANEL IN AS NOTED BY NUMBER ADJACENT
				2. REFER TO DETAIL 2 AND FAN CONTROL DETAILS.	3 ON SHEET H-E700 FOR EXHAUST
				ELECTRICAL PLAN	NOTES:
				E8 COORDINATE LOCATION OWNER PRIOR TO ROUG	OF MICROWAVE RECEPTACLE WITH
				E25 PROVIDE MARKTIME 70A	B SERIES HEAVY DUTY TIMER FOR DORDINATE REQUIRED TIMER
	o				QUIREMENTS WITH SELECTED INATE CONTROLS WITH OWNER
					OR AND EQUIPMENT
	o			E35 POWER CONNECTION TO COORDINATE CONNECTION MANUFACTURER. REFER LOCATION.	
				FOR PLUMBING FIXTURE. REQUIREMENTS WITH MA	LOW VOLTAGE TRANSFORMER COORDINATE CONNECTION NUFACTURER. R IT RACK. COORDINATE FINAL
	o			LOCATION WITH IT INSTA E49 DISCONNECT SWITCH IS	LLER.
	à				IECHANICAL SCHEDULES ON SHEET
	o				
	80				
	o				
	ବ ୦	•			





7	6	5	4	3	2
				ELECTRICAL GENE	RAL NOTES:
				LOCATED IN THE SAME E	UITED BACK TO 208/120V PANEL BULIDING THE LIGHTING IS LOCATED NOTED. CIRCUIT AS NOTED IN
					E CIRCUITED TO 208/120V PANEL IN FAS NOTED BY NUMBER ADJACENT
					ICES SHALL CONTROL ALL LIGHTING TICKET BOOTH. REFER TO DETAIL 1 IORE INFORMATION.
				ELECTRICAL PL	AN NOTES:

E25 PROVIDE MARKTIME 70AB SERIES HEAVY DUTY TIMER FOR CONTROL OF HEATER. COORDINATE REQUIRED TIMER

EQUIPMENT. REFER TO MECHANICAL SCHEDULES ON SHEET

E49 DISCONNECT SWITCH IS INTEGRAL TO MECHANICAL

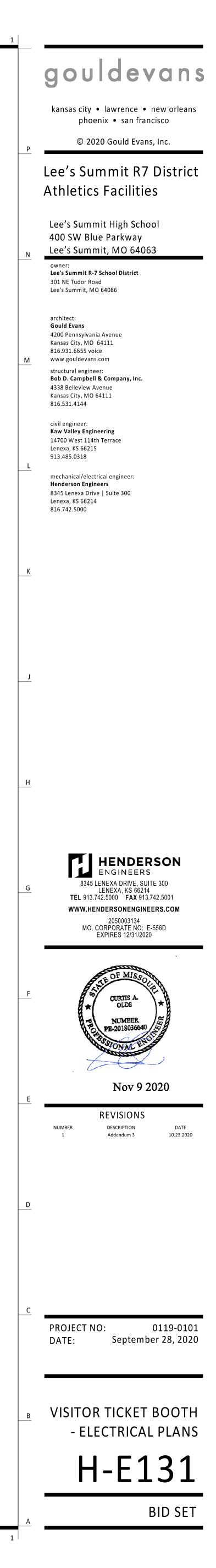
LENGTH WITH OWNER.

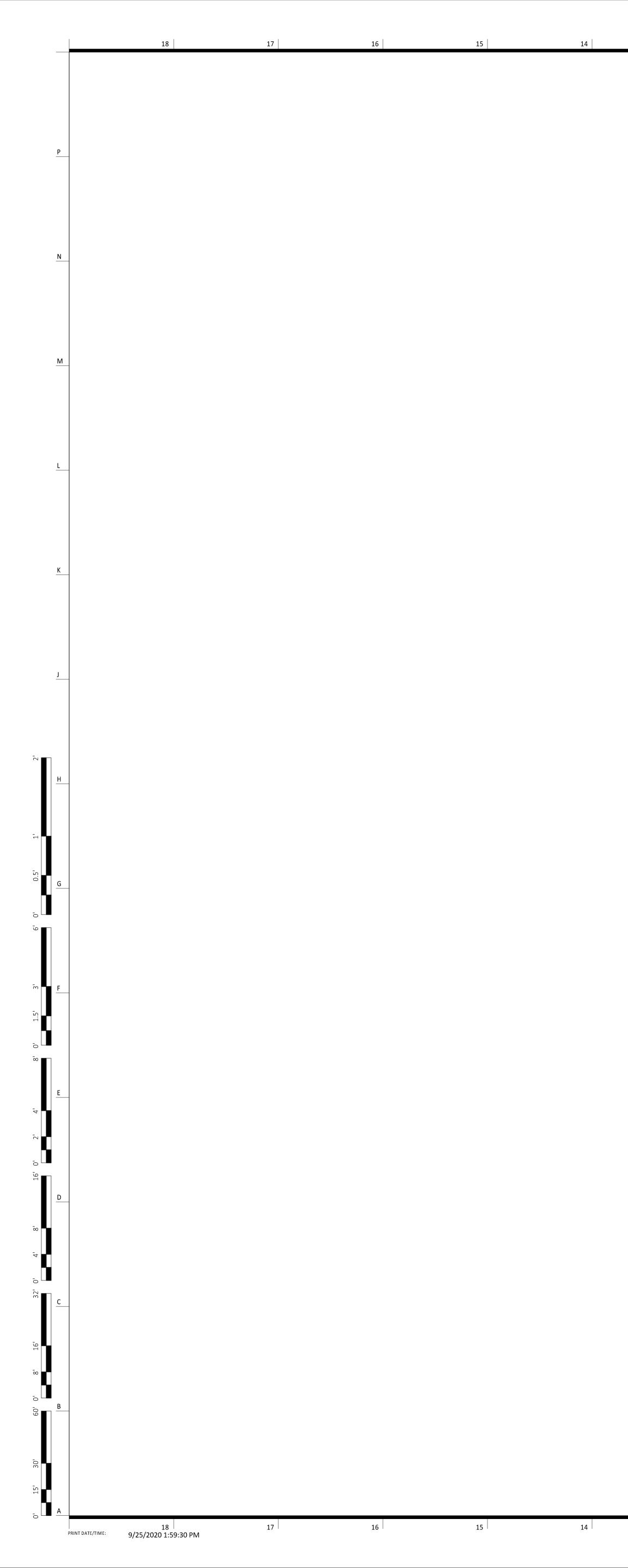
H-M600 FOR MORE INFORMATION.

VISITOR TICKET BOOTH TO BE PART OF H1 ALTERNATE BID PACKAGE. Visitor Ticket Booth H3-101/ 

 USITOR TICKET BOOTH - LIGHTING RCP

 1/8" = 1'-0"





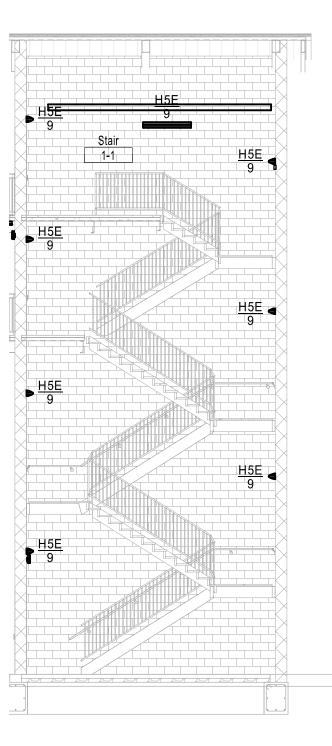
$\bigcirc$	STAIR LIGHTING 1/8" = 1'-0"	
U	1/8" = 1'-0"	

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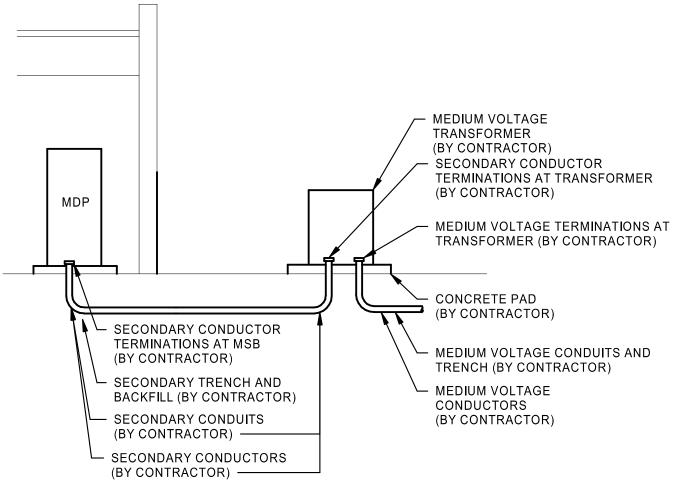
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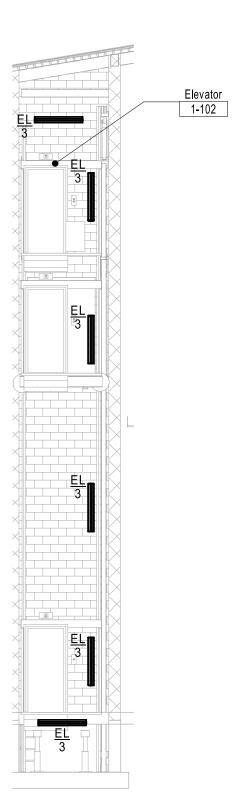
7	6	5	4	3	2
				ELECTRICAL GE	NERAL NOTES:
				LOCATED IN THE SAM	RCUITED BACK TO 480/277V PANEL E BULIDING THE LIGHTING IS LOCATED SE NOTED. CIRCUIT AS NOTED IN

- 2. LIGHTING CONTROLS DEVICES SHALL CONTROL LIGHTING IN THE ASSOCIATED ROOM. REFER TO DETAIL 1 ON SHEET H-
- H5/H5E FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY SENSOR.

E700.

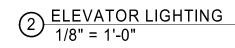




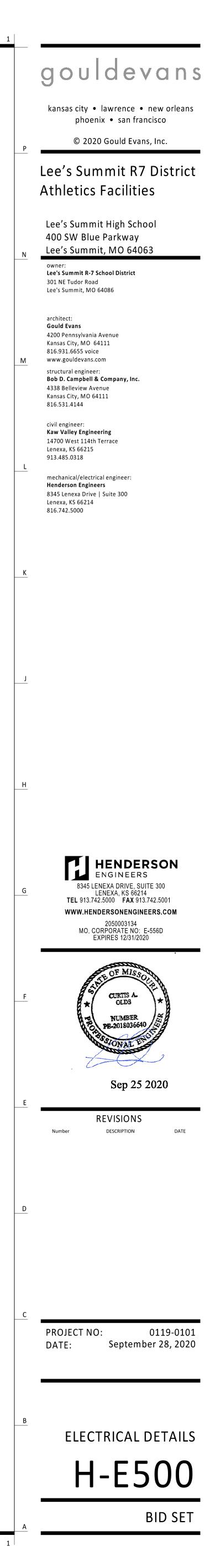


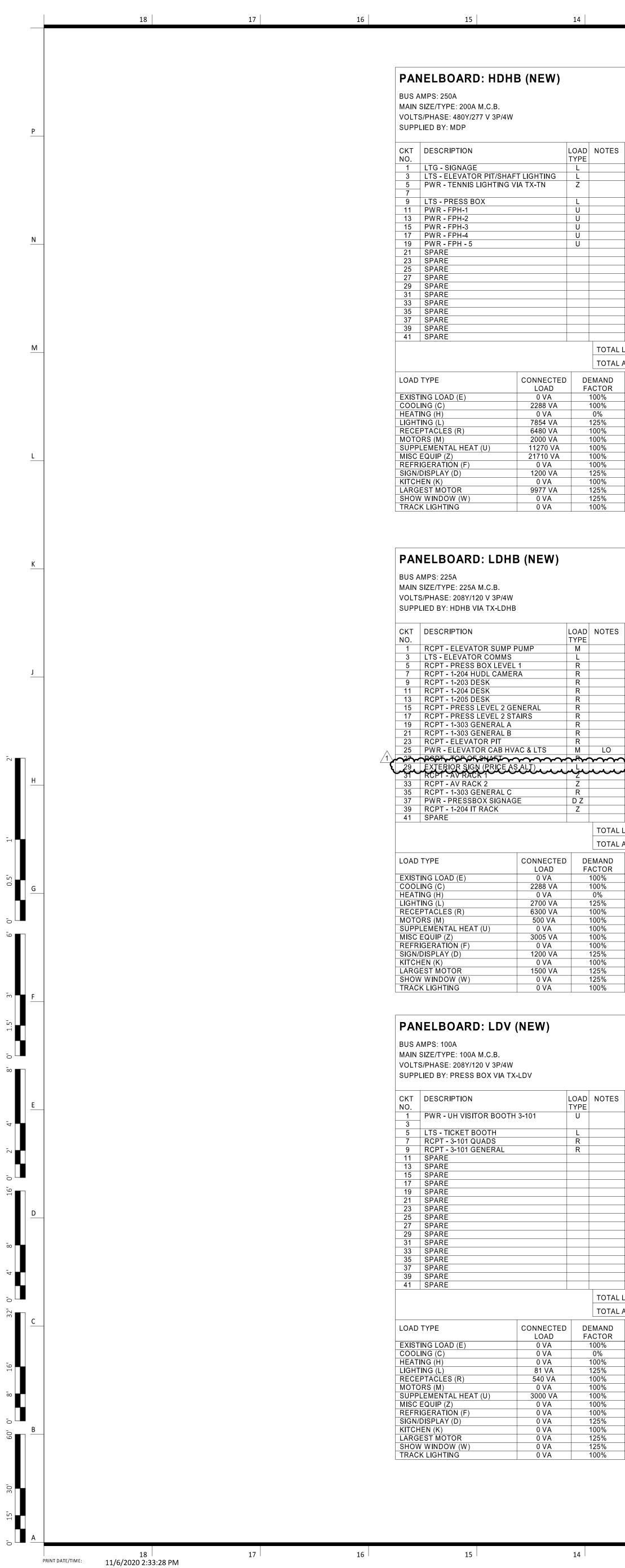
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	I , ,	AIC RAT SERVES MOUNT LOCATIO	S: HOME B ING: SURFAC	E H1-101		1	· · · · ·	LINE-SIDE LUGS: N	/ECHANICAL	BUS AMPS: 250A MAIN SIZE/TYPE: 200A M.C.B. VOLTS/PHASE: 480Y/277 V 3P/ SUPPLIED BY: MDP
S	WIRE BKR P SIZE AMP 12 20 1	PHASE A 92 0	PHASE B	PHASE C	P BKR AMP 1 20		LOAD TYPE	DESCRIPTION	CKT NO. 2	CKT DESCRIPTION NO. 1 PWR - HOME GATEWA
	12         20         1           12         20         1           OL         70         2	9600 0	1200 1397	9600 0	1 20 1 20 1 20 1 20	12	LΖ	LTS - 1-303 ROOF GRAZING SPARE SPARE	4 6 8	3 PWR - UH-8 5 PWR - UH-11 7 PWR - RH-2
	122011215112151	1885 4080	2470 6789	2500 6304	3 125	OL		TX-LDHB	10 12 14	9 11 PWR - UH-9
	12         15         1           12         15         1           12         15         1           12         15         1	2500 3326	2500 3326	1885 3326	3 30	OL	М	PWR - ELEVATOR	16 18 20	15 SIGN LIGHTING 17 SPARE 19 SPARE
	20 1 20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	22 24 26	21 SPARE 23 SPARE 25 SPARE
	20 1 20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20 1 20			SPARE SPARE SPARE	28 30 32	27 SPARE 29 SPARE 31 SPARE
	20 1 20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20 1 20			SPARE SPARE SPARE	34 36 38	33SPARE35SPARE37SPARE
	20 1 20 1		0 0		1 20 1 20			SPARE SPARE	40	39 SPARE 41 SPARE
	OAD (VA): MPS:	21482 VA 80 A	17682 VA 64 A	23614 VA 87 A						
	NEC DEMAND 0 VA 2288 VA	PANELBOARD N	OTES					PANELBOARD TOTALS TOTAL CONNECTED LOAD	62779 VA	LOAD TYPE EXISTING LOAD (E) COOLING (C)
	0 VA 9818 VA 6480 VA	-						TOTAL NEC LOAD	67537 VA 76 A	HEATING (H) LIGHTING (L) RECEPTACLES (R)
	2000 VA 11270 VA 21710 VA	-						TOTAL NEC DEMAND CURRENT	81 A	MOTORS (M) SUPPLEMENTAL HEAT (U) MISC EQUIP (Z)
	0 VA 1500 VA 0 VA	-								REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K)
	12471 VA 0 VA 0 VA	-								LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING
			CURRENT: REFER T		M			EQUIPMENT G	ROUND BUS	PANELBOARD: LD
		AIC RAT AIC RAT SERVES MOUNT	ING: FCA +10 S: HOME B	% MINIMUM OOTH						BUS AMPS: 225A MAIN SIZE/TYPE: 150A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/
_										SUPPLIED BY: HDC VIA TX-LDC
	WIRE         BKR         P           SIZE         AMP         -           12         20         1           12         20         1	PHASE A 500   1144	PHASE B 1500 1144	C C	P BKR AMP 2 20	WIRE NOTES SIZE 12	LOAD TYPE C Z	CU-1/FCU-1 ELEVATOR SHAFT CO	$\begin{array}{c} & CKT \\ \hline NO. \\ OLING \\ \hline 4 \end{array}$	NO. 1 SPARE 3 SPARE
	12201122011220112201	180 250	<u>1500</u> 1144 720 0	900 250	2 20	mm	z	SCOREBOARD	$\frac{6}{8}$	5 PWR - EF CONCESSIO 7 RCPT - 2-106 COUNTER 9 RCPT - 2-106 COUNTER
	1220112201	540 0	]	540 0	1 20 1 20			SPARE SPARE	12 14	11         RCPT - CONCESSION E           13         PWR - 2-108 DDC CON           15         RCPT - 2-106 COUNTEE
	12     20     1       12     20     1       12     20     1       12     20     1	720 0	540 0	720 0	1 20 1 20 1 20			SPARE SPARE SPARE	16 18 20	17         RCPT - 2-109 GENERAL           19         RCPT - 2-105 GENERAL           21         PWR - COILING DOOR
	122011220112201	1500 0	540 0	180 0	1 20 1 20 1 20			SPARE SPARE SPARE	22 24 26	23 PWR - COILING DOOK 23 PWR - BAND COILING I 25 RCPT - 2-106 FREEZER 27 RCPT - 2-107 GENERAL
2	$     \begin{array}{c}                                     $	<b>)</b> 1000 0		1200 0	1 20 1 20 1 20			SPARE SPARE SPARE	28 30 32	29 RCPT - 2-106 VENERAL 29 RCPT - 2-108 IT RACK 31 RCPT - 2-106 PREP CO 33 RCPT - 2-106 MICROW
	12     20     1       12     20     1       12     20     1       12     20     1	1205 0	1000 0	540 0	1 20 1 20 1 20			SPARE SPARE SPARE	34 36 38	35         RCPT - 2-106 MICKOW/           35         RCPT - 2-106 COUNTER           37         RCPT - 2-106 COUNTER           39         PWR - 2-106 MOTORIZE
	12 20 1 20 1 OAD (VA):	7039 VA	6124 VA	0 0 4330 VA	1 20 1 20			SPARE SPARE	40 42	41 SPARE
	MPS:	61 A	53 A OTES	36 A				PANELBOARD TOTALS		LOAD TYPE
	0 VA 2288 VA	-						TOTAL CONNECTED LOAD	17493 VA	EXISTING LOAD (E) COOLING (C)
	0 VA 3375 VA 6300 VA	-						TOTAL NEC LOAD TOTAL CONNECTED CURRENT	18843 VA 49 A	HEATING (H) LIGHTING (L) RECEPTACLES (R) MOTORS (M)
	500 VA 0 VA 3005 VA	-						TOTAL NEC DEMAND CURRENT	52 A	SUPPLEMENTAL HEAT (U) MISC EQUIP (Z)
	0 VA 1500 VA 0 VA	-								REFRIGERATION (F) SIGN/DISPLAY (D) KITCHEN (K)
	1875 VA 0 VA 0 VA	-								LARGEST MOTOR SHOW WINDOW (W) TRACK LIGHTING
		FAULT C AIC RAT AIC RAT SERVES	ING: FCA +10	ATED % MINIMUM	M			EQUIPMENT G	ROUND BUS	
		MOUNT		E cket Booth 3-101				LINE-SIDE LUGS: N		
	NIRE BKR P SIZE AMP	PHASE	PHASE B	PHASE C			LOAD TYPE	DESCRIPTION	CKT NO.	
	12     20     2       12     20     1	1500 0	1500 0	81 0	1 20 1 20 1 20			SPARE SPARE SPARE	2 4 6	
	1220112201201	180 0	360 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	8 10 12	
	20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	14 16 18	
	20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	20 22 24	
	20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	26 28 30	
	20 1 20 1 20 1	0 0	0 0	0 0	1 20 1 20 1 20			SPARE SPARE SPARE	32 34 36	
	20 1 20 1 20 1 20 1	0 0	0 0		1 20 1 20 1 20 1 20			SPARE SPARE SPARE	38 40 42	
	DAD (VA):	1680 VA 16 A	1860 VA 18 A	81 VA			.			
	NEC DEMAND							PANELBOARD TOTALS		
	0 VA 0 VA 0 VA	-						TOTAL CONNECTED LOAD	3621 VA 3641 VA	
	101 VA 540 VA	-						TOTAL CONNECTED CURRENT	10 A	
	0 VA	-						TOTAL NEC DEMAND CURRENT	10 A	
	3000 VA 0 VA	-								
		-								

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7				6			5			4				3	2	
C (NEW)						FAULT C AIC RATE AIC RATI SERVES:	NG: FC/	LLY RA	TED MINIMUN		AM				EQUIPMENT GF	OUND BI
W							NG: SU	RFACE								
	LOAD	NOTES	WIRE	BKR	Р	PHASE	PHASE		PHA	SE	P BKR	WIRE	NOTES	LOAD	LINE-SIDE LUGS: MI DESCRIPTION	
	TYPE	NOTEO	SIZE	AMP		А	B		C		AMP	SIZE	NOTEO	TYPE		NC
<sup>′</sup> RH	H U		12 12	20 20	1	4000 3000	3000 30	000			1 20 1 20	12 12		UU	PWR - UH-7 PWR - UH-10	
	UU		12 12	20 20	1	4000 540			3000	4000	1 20 1 20	12 12		U	PWR - RH-1 LTS - CONCESSION LIGHTING	
	U		12		2		2500	0	2500	0	1 20 1 20				SPARE SPARE	
$\sim$	$\sim$	$\sim\sim\sim$	$\rightarrow$	$\frown$	3 <b>^</b>	2500 6000			2500	0						
un	utu	سس	-12r	20 20			180 60	000	0	6000	3 30	10		U	WH2	-
				20 20	1	0 0	0	0	I		1 20 1 20				SPARE SPARE	
				20	1				0	0	1 20				SPARE	
				20 20	1	0 0	0	0			1 20 1 20				SPARE SPARE	
				20 20	1	0 0		L	0	0	1 20 1 20				SPARE SPARE	
				20 20	1		0	0	0	0	1 20 1 20				SPARE SPARE	
				20	1	0 6346	0 58		0	0					TX-LDC	
		1		20 20	1			830	0	6016	3 70	OL				
		TOTAL	LOAD	(VA):		26386 VA	20510 VA	<b>\</b>	2151	6 VA	-					
1		TOTAL	AMPS:			96 A	74 A		78	A						
CONNECTE		EMAND ACTOR	NEC	DEMA	ND	PANELBOARD NO	DTES								PANELBOARD TOTALS	
0 VA		100%		0 VA											TOTAL CONNECTED LOAD	68412 \
0 VA 4000 VA		0% 100%		0 VA 000 VA											TOTAL NEC LOAD	66092 \
720 VA 4600 VA		125% 100%		00 VA 600 VA											TOTAL CONNECTED CURRENT	82 A
2642 VA 45500 VA		100% 100%	26	542 VA											TOTAL NEC DEMAND CURRENT	79 A
1750 VA		100%	17	750 VA												
0 VA 0 VA		100% 125%		0 VA 0 VA												
8000 VA 1200 VA		65% 125%		200 VA 500 VA												
0 VA 0 VA		125% 100%		0 VA 0 VA												
						FAULT C	URRENT: RE	FER TC	ONE-LIN	E DIAGRA					EQUIPMENT GF	
(NEW)						AIC RATE AIC RATI SERVES:	ED: FUI NG: FC/	LLY RA	TED MINIMUN							
						MOUNTIN	NG: SU	RFACE								
						LOCATIO	N: ME	P 2-108	3						LINE-SIDE LUGS: MI	ECHANIC
	LOAD	NOTES			Р	PHASE	PHASE		PHA	SE	P BKR		NOTES	LOAD	DESCRIPTION	C
	TYPE		SIZE	AMP 20	1	A 0 1000	В		C	:	AMP 1 20	SIZE 12	GF	TYPE R	RCPT - 2-106 FIRDGE B	N
106	M		12	20	1		0 10	000	696	1000	1 20 1 20	12 12	GF GF	K K	RCPT - 2-106 FRIDGE C RCPT - 2-106 FRIDGE D	
	K		12	20	1	1000 1000	1000		000	1000	1 20	12	51	K	RCPT - 2-106 POPCORN	
ERIOR	K R		12	20 20	1		1000 10		360	360	1 20 1 20	12		K R	RCPT - 2-106 COUNTER B RCPT - 2-106 GENERAL F	
DLS	Z Z		12 12	20 20	1	250 360	500 5	540			1 20 1 20	12 12		R R	RCPT - 2-106 GENERAL G RCPT - 2-107/108 GENERAL	
	R R		12 12	20 20	1	360 696			540	360	1 20 1 20	12 12		R M	RCPT - 2-105 DESK PWR - EF-3	
DR	М		12	20	1		1200	0	1200	0	1 20 1 20 1 20				SPARE SPARE	
///	M Z	GF	12	20 20	1	500 0	0.00		1200	U	1 20				SPARE	
	R Z		12 12	20 20	1		360	0	500	0	1 20 1 20				SPARE SPARE	
TER	R R		12 12	20 20	1	180 0	180	0			1 20 1 20				SPARE SPARE	
-	K K		12	20 20 20	1	1000 0			1000	0	1 20 1 20				SPARE SPARE	
DAMPER	M		12	20	1	1000 0	50	0			1 20				SPARE	4
		TOTAL		20	1	6346 VA	5830 VA		0 6016	0	1 20				SPARE	
		TOTAL			+	53 A	49 A		50		-					
CONNECTED		EMAND ACTOR		DEMA	ND	PANELBOARD NC					]				PANELBOARD TOTALS	
0 VA 0 VA		100% 0%		0 VA 0 VA											TOTAL CONNECTED LOAD	18192 \
0 VA		100%		0 V A											TOTAL NEC LOAD	15692 V
0 VA		125%	-	0 VA											TOTAL CONNECTED CURRENT	50 A

LOAD	FACTOR	
0 VA	100%	0 VA
0 VA	0%	0 VA
0 VA	100%	0 VA
0 VA	125%	0 VA
4600 VA	100%	4600 VA
2642 VA	100%	2642 VA
0 VA	100%	0 VA
1750 VA	100%	1750 VA
0 VA	100%	0 V A
0 VA	125%	0 VA
8000 VA	65%	5200 VA
1200 VA	125%	1500 VA
0 VA	125%	0 V A
0 VA	100%	0 VA

PANELBOARD LEGEND

- ABBREVIATIONS
- AF ARC FAULT CIRCUIT INTERRUPTER. C# CIRCUIT VIA LIGHTING CONTACTOR #.
- CL CIRCUIT VIA CURRENT LIMITING DEVICE. D DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO

TOTAL CONNECTED CURRENT 50 A

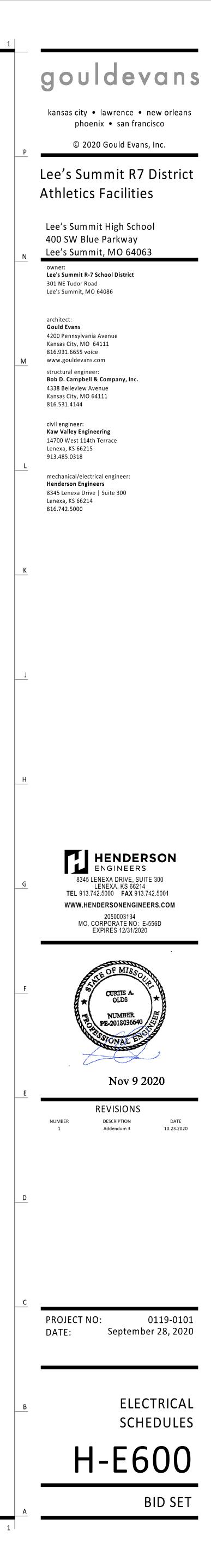
TOTAL NEC DEMAND CURRENT 44 A

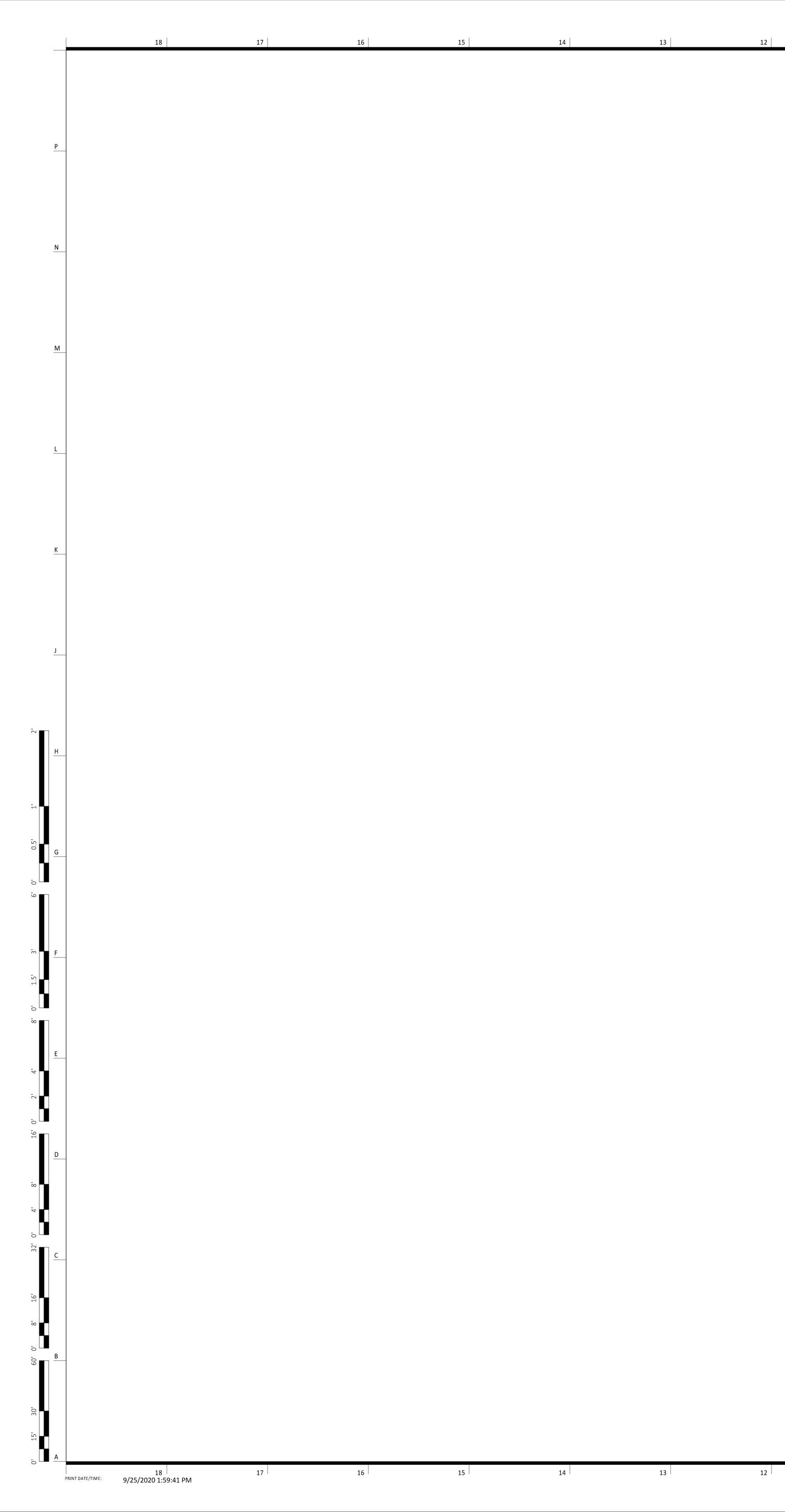
V1.00

- SPARE AND TURN OFF. EM EMERGENCY LIGHTING HANDLE-ON CLAMP.
- EX EXISTING. F FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
- FA RED/HANDLE-ON CLAMP. GF GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
- GFEP GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA). HT PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
- IG ISOLATED GROUND CIRCUIT. L# LIGHTING CONTROL SCHEME NUMBER.
- LCK HANDLE PADLOCKABLE-OFF DEVICE. LO HANDLE-ON CLAMP.
- N PROVIDE NEW CIRCUIT BREAKER. OL REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
- PS POWER-SWITCHING CIRCUIT BREAKER. PSE EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
- R REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD. RP CIRCUIT VIA RELAY PANEL.
- ST SHUNT TRIP CIRCUIT BREAKER. V VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
- VD BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED. Z CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

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11	10	9	8	

BUS A MAIN VOLT	NELBOARD: HDT MPS: 125A SIZE/TYPE: 125A M.C.B. S/PHASE: 480Y/277 V 3P/4W LIED BY: MDP	(NEW)				FAULT C AIC RAT AIC RAT SERVES MOUNTI LOCATIC	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC	% MINIMUM	AM					GROUND BUS
скт	DESCRIPTION		OAD NOTES	WIRE E		PHASE	PHASE	PHASE	P BKR	WIRF	NOTES	LOAD	LINE-SIDE LUGS DESCRIPTION	CKT
NO.		Т	YPE	SIZE	AMP	А	B	C C	AMP	SIZE	NOTES	TYPE		NO.
3	PWR - UH TENNIS STORA		<u>U</u>		20 1	3000 564	2728 478		1 20 1 20	12 12			LTS - RESTROOM BUILDING LTS - EXTERIOR LIGHTING	2
5 7	TX-LDT	R	ZM	OL	70 3	2232 3000	]	2682 3000	1 20 1 20	12 12		U U	PWR - UH-1 PWR - UH-2	6 8
9 11	PWR - UH-3		U	12	20 3		2500 1667	2500 1667	3 20	12		υ	PWR - UH-5	10 12
13 15						2500 1667	1667 5000	7						14 16
17 19	PWR - UH-4		U	12	20 3	1667 5000	]	1667 5000	3 25	10		U	WH1	18 20
21 23	PWR - UH-6		U	12	20 3		2500 0	2500 0	1 20 1 20				SPARE SPARE	22 24
25 27	SPARE				20 1	2500 0	0 0	7	1 20 1 20				SPARE SPARE	26 28
29 31	SPARE SPARE				20 1 20 1	0 0	1	0 0	1 20 1 20				SPARE SPARE	30 32
33 35	SPARE SPARE				20 1 20 1 20 1		0 0	0 0	1 20 1 20 1 20				SPARE SPARE	34 36
37	SPARE SPARE SPARE				20     1       20     1       20     1	0 0	0 0		1 20 1 20 1 20				SPARE SPARE SPARE	38 38 40
39 41	SPARE				20 1 20 1		0 0	0 0	1 20				SPARE	40
				LOAD (V	A):	22129 VA	16539 VA	19015 VA	_					
			TOTAL			81 A	60 A	70 A						
LOAD		CONNECTED LOAD	DEMAND FACTOR			PANELBOARD N	DTES						PANELBOARD TOTALS	
	ING LOAD (E) ING (C)	0 VA 0 VA	100% 0%		VA VA								TOTAL CONNECTED LOA	D 57684 VA
	NG (H) ING (L)	0 VA 1037 VA	100% 125%		VA 6 VA									
RECE	PTAČLES (R) PRS (M)	1620 VA 4776 VA	100% 100%	162	0 VA 6 VA								TOTAL CONNECTED CURREN	
SUPP	LEMENTAL HEAT (U) EQUIP (Z)	49000 VA 555 VA	100% 100%	4900	00 VA 5 VA								TOTAL NEO DEMAND CONKEN	
REFR	IGERATION (F) DISPLAY (D)	0 VA 0 VA	100% 100% 125%	0 \	VA VA									
	IEN (K)	0 VA	100%		VA									
LARG SHOV		0 VA 696 VA 0 VA 0 VA	100% 125% 125% 100%	870 0 \	VA ) VA VA VA									
LARG SHOW TRAC PAN BUS A MAIN VOLTS	EN (K) EST MOTOR / WINDOW (W) K LIGHTING IELBOARD: LDT MPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W	696 VA 0 VA 0 VA	125% 125%	870 0 \	) VA VA	AIC RAT AIC RAT SERVES MOUNTI	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC	% MINIMUM CE	AM				EQUIPMENT	GROUND BUS
LARG SHOW TRAC PAN BUS A MAIN VOLTS	IEN (K) EST MOTOR / WINDOW (W) K LIGHTING IELBOARD: LDT MPS: 225A SIZE/TYPE: 150A M.C.B.	696 VA 0 VA 0 VA	125% 125%	870 0 \	) VA VA	AIC RAT AIC RAT SERVES	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC	ATED % MINIMUM	1				EQUIPMENT	
LARG SHOW TRAC PAN BUS A MAIN VOLTS SUPP CKT	EN (K) EST MOTOR / WINDOW (W) K LIGHTING IELBOARD: LDT MPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W	696 VA 0 VA 0 VA	125% 125%	870	) VA VA VA BKR P	AIC RAT AIC RAT SERVES MOUNTI	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC	RATED % MINIMUM CE	AM P BKR AMP		NOTES	LOAD	LINE-SIDE LUGS	
LARG SHOW TRAC PAN BUS A MAIN VOLTS SUPP CKT	EN (K) EST MOTOR / WINDOW (W) K LIGHTING MPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: HDT VIA TX-LDT	696 VA 0 VA 0 VA (NEW)	125% 125% 100%	WIRE E SIZE A	OVA VA VA BKR P AMP 20 1	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE	RATED % MINIMUM CE stodian 2-102 PHASE	P BKR		NOTES		LINE-SIDE LUGS	: MECHANICAL
LARG SHOW TRAC PAN BUS A MAIN VOLTS SUPP CKT	EN (K) EST MOTOR / WINDOW (W) K LIGHTING IELBOARD: LDT MPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: HDT VIA TX-LDT DESCRIPTION PWR - EF WOMENS RR 2-	696 VA 0 VA 0 VA (NEW)	125% 125% 100% OAD NOTES YPE M	WIRE E SIZE A 12 12	OVA           VA           VA           SKR           P           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20	AIC RAT AIC RAT SERVES MOUNTI LOCATIC PHASE A	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B	RATED % MINIMUM CE stodian 2-102 PHASE	P BKR AMP 1 20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE	: MECHANICAL CKT NO. 2
LARG SHOW TRAC PAN BUS A MAIN VOLTS SUPP CKT NO. 1 3	EN (K) EST MOTOR / WINDOW (W) K LIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING ALIGHTING	696 VA 0 VA 0 VA (NEW)	125% 125% 100% OAD NOTES YPE M M M M R R	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	VA         VA         VA         SKR         P         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B	RATED % MINIMUM E stodian 2-102 PHASE C	P BKR AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 111 13	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW) (NEW)	125% 125% 100% OAD NOTES YPE M M M M R R R R R M	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12	OVA           VA           VA           VA           BKR           20           1           20           1           20           1           20           1           20           1           20           1           20           1           20           1           20           1	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0	ATED % MINIMUM E stodian 2-102 PHASE C 696 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 14
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 11 13 15 17	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW)	125% 125% 100% OAD NOTES YPE M M M R R R R R M M M M M M M	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	OVA           VA           VA           VA           BKR           P           20           1           20           1           20           1           20           1           20           1           20           1           20           1           1           15           1           15	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0	ATED % MINIMUM E stodian 2-102 PHASE C 696 0	P BKR AMP 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 12 14 16 18
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 111 13 15 17 19 21	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW)	125% 125% 100%	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	O VA         VA         VA         VA         BKR         P         20         20         20         1         20         1         20         1         20         1         20         1         10         1         15         15         15         15         15         15         15         15         15	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0	ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 11 13 15 17 19 21 23 25	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW)	125% 125% 100% NOTES PPE M M M R R R R R R R M M M M M M M M M	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	VA         VA         VA         VA         SKR         P         20         20         20         1         20         15         15         15         15         15         15         15         15         15         15         15         15         15         15         15         120         15         15         15         15         120         15         15         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120         120	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0	ATED % MINIMUM CE stodian 2-102 PHASE C 696 0 360 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 24 26
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 111 13 15 17 19 21 23 25 27 29	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW) (NEW)	125% 125% 100%	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	VA         VA         VA         VA         SKR         P         20         20         1         20         10         20         15         15         15         15         15         15         15         15         15         15         120         15         15         120         15         120         120         120         120         120         120         120         120         120         120         120         120         20         120         20         120         20         120         20         20         20         20         20         20         20         20         20         2	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0 696 0 696 0 696 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0	ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24 24 26 28 30
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW) (NEW)	125% 125% 100% NOTES PPE M M M M R R R R R R R M M M M M M M M	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	VA         VA         VA         VA         SKR         P         20         1         20         1         20         1         20         1         20         15         15         15         15         15         15         15         15         15         20         15         15         10         15         10         15         10         10         115         120         120         120         120         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20 <t< td=""><td>AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0 696 0</td><td>ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0</td><td>ATED % MINIMUM CE stodian 2-102 PHASE C 696 0 360 0 696 0 180 0</td><td>P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20</td><td></td><td>NOTES</td><td></td><td>LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td>: MECHANICAL CKT NO. 2 4 4 6 8 10 12 12 14 14 16 18 20 22 24 24 26 22 24 24 26 28 30 32 34</td></t<>	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0 696 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0	ATED % MINIMUM CE stodian 2-102 PHASE C 696 0 360 0 696 0 180 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 4 6 8 10 12 12 14 14 16 18 20 22 24 24 26 22 24 24 26 28 30 32 34
LARG SHOW TRAC BUS A MAIN VOLTS SUPP CKT NO. 1 3 5 7 9 111 13 5 7 9 111 13 5 7 9 111 13 5 7 9 111 13 25 27 29 31 33 35 37	EN (K) EST MOTOR / WINDOW (W) K LIGHTING	696 VA 0 VA 0 VA (NEW) (NEW)	125% 125% 100% NOTES PPE M M M M R R R R R R R M M M M M M M M	870           0           0           0           0           0           0           0           0           0           0           0           0           0           0           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12           12	VA         VA         VA         VA         SKR         P         20         1         20         1         20         1         20         10         20         1         20         1         15         15         15         15         15         15         15         20         1         15         10         15         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1 <td< td=""><td>AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0 696 0 696 0 696 0</td><td>ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 540 0</td><td>ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0</td><td>P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20      1</td><td></td><td>NOTES</td><td></td><td>LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE</td><td>: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24 24 26 28 30 32 32 34 33 4 33</td></td<>	AIC RAT AIC RAT SERVES MOUNTI LOCATIO PHASE A 696 0 540 0 696 0 696 0 696 0	ED: FULLY F ING: FCA +10 : TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 540 0	ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20      1		NOTES		LINE-SIDE LUGS DESCRIPTION SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 22 24 24 26 28 30 32 32 34 33 4 33
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    20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20      1</td><td></td><td>NOTES</td><td></td><td>LINE-SIDE LUGS DESCRIPTION SPARE SPA</td><td>: MECHANICAL CKT NO. 2 4 6 8 10 12 14 16 18 20 22 24 24 26 28 30 32 34 36 38 40 42 D 7642 VA D 7816 VA T 21 A</td></tr<>	VA         VA         VA         VA         VA         VA         VA         VA         VA         SKR         P         20         20         1         20         15         15         15         15         20         15         15         20         10         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         1         20         20         1         20         1         20         1         20         1         20         1         20         1         20    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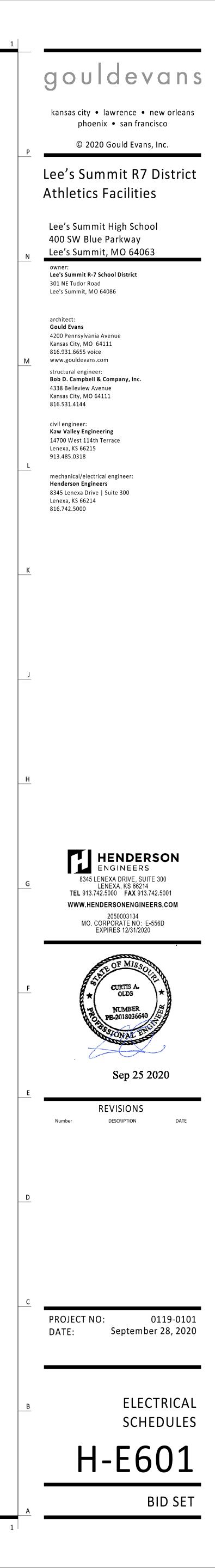
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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - FF-119PWR - TF-221PWR - RECIRC PUMP                                                                                                                                                                                              | 0 VA (NEW) (NEW) 104 M M M R R R R M M M M M M M M M M M M                                                                                                                                                                                                                                                                                                                                                                                                                                              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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - TF-119PWR - TF-2                                                                                                                                                                                                                 | 0 VA (NEW) (NEW) (NEW) 104 M M M R L R M M M M M M M M M M M R R R R                                                                                                                                                                                                                                                                                                                                                                                                                                    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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - TF-119PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR                                                                                                                                                           | O VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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0<br/>100 0<br/>0 0<br/>0 0</td><td>ED: FULLY R<br/>ING: FCA +10<br/>S: TENNIS<br/>ING: SURFAC<br/>DN: MEP/Cus<br/>696 0<br/>696 0<br/>696 0<br/>540 0<br/>550 0<br/>250 0<br/>0<br/>0 0</td><td>ATED<br/>% MINIMUM<br/>E<br/>stodian 2-102<br/>PHASE<br/>C<br/>696 0<br/>360 0<br/>696 0<br/>180 0<br/>180 0<br/>180 0<br/>0<br/>0 0</td><td>P         BKR<br/>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20</td><td></td><td></td><td>LINE-SIDE<br/>DESCRIPTION<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE</td><td>LUGS: MECHANICAL<br/>J CKT<br/>NO.<br/>2<br/>4<br/>6<br/>8<br/>10<br/>12<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>34<br/>36<br/>38</td></tr> <tr><td>PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - 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20</td><td></td><td></td><td>LINE-SIDE<br/>DESCRIPTION<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE 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   M         N       M         N       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M</td><td>100% 100% 100% 100% 100% 125%</td><td>0 VA         0 VA         12       20         12       20         12       20         12       10         12       10         12       15         12       15         12       15         12       15         12       15         12       15         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       1         20       1         20</td><td>AIC RAT<br/>AIC RAT<br/>SERVES<br/>MOUNTI<br/>LOCATIO<br/>PHASE<br/>A<br/>696 0<br/>540 0<br/>696 0<br/>696 0<br/>696 0<br/>100 0<br/>696 0<br/>100 0<br/>2728 VA<br/>23 A</td><td>ED: FULLY R<br/>ING: FCA +10<br/>S: TENNIS<br/>ING: SURFAC<br/>DN: MEP/Cus<br/>PHASE<br/>B<br/>696 0<br/>540 0<br/>696 0<br/>540 0<br/>550 0<br/>250 0<br/>0<br/>250 0<br/>0<br/>250 0<br/>0<br/>250 0</td><td>ATED<br/>% MINIMUM<br/>E<br/>stodian 2-102<br/>PHASE<br/>C<br/>696 0<br/>360 0<br/>696 0<br/>180 0<br/>180 0<br/>180 0<br/>0<br/>0 0</td><td>P         BKR<br/>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         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SPARE<br/>SPARE SPARE<br/>SPARE SPARE SP</td><td>LUGS: MECHANICAL<br/>NO.<br/>2<br/>4<br/>6<br/>8<br/>10<br/>12<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>22<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>36<br/>38<br/>40<br/>42<br/>DLOAD 7642 VA</td></tr> <tr><td>PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR
2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-103 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE35SPARE37SPARE39SPARE41SPARE41SPARELOAD TYPEEXISTING LOAD (E)COOLING (C)HEATING (H)</td><td>0 VA         (NEW)         LOAD         TYPE         104       M         M       M         R       R         L       R         L       R         L       R         M       M         M       M         M       M         N       M         N       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M</td><td>100% 100% 100% 100%</td><td>0 VA         0 VA         12         12       20         12       20         12       20         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       20         12       20         12       20         12       20         12       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1</td><td>AIC RAT<br/>AIC RAT<br/>SERVES<br/>MOUNTI<br/>LOCATIO<br/>PHASE<br/>A<br/>696 0<br/>540 0<br/>696 0<br/>696 0<br/>696 0<br/>100 0<br/>696 0<br/>100 0<br/>2728 VA<br/>23 A</td><td>ED: FULLY R<br/>ING: FCA +10<br/>S: TENNIS<br/>ING: SURFAC<br/>DN: MEP/Cus<br/>PHASE<br/>B<br/>696 0<br/>540 0<br/>696 0<br/>540 0<br/>550 0<br/>250 0<br/>0<br/>250 0<br/>0<br/>250 0<br/>0<br/>250 0</td><td>ATED<br/>% MINIMUM<br/>E<br/>stodian 2-102<br/>PHASE<br/>C<br/>696 0<br/>360 0<br/>696 0<br/>180 0<br/>180 0<br/>180 0<br/>0<br/>0 0</td><td>P         BKR<br/>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20</td><td></td><td></td><td>LINE-SIDE<br/>DESCRIPTION<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE<br/>SPARE SPARE<br/>SPARE SPARE<br/>SPARE SPARE SP</td><td>LUGS: MECHANICAL<br/>CKT<br/>NO.<br/>2<br/>4<br/>6<br/>8<br/>10<br/>12<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>36<br/>38<br/>40<br/>42<br/>0<br/>12<br/>14<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>36<br/>38<br/>40<br/>42<br/>10<br/>12<br/>14<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>36<br/>38<br/>40<br/>10<br/>12<br/>14<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>36<br/>38<br/>40<br/>42<br/>10<br/>12<br/>14<br/>14<br/>16<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>34<br/>36<br/>38<br/>40<br/>42<br/>10<br/>12<br/>14<br/>14<br/>16<br/>18<br/>18<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>34<br/>36<br/>38<br/>40<br/>42<br/>10<br/>12<br/>20<br/>22<br/>24<br/>24<br/>26<br/>28<br/>30<br/>32<br/>34<br/>34<br/>36<br/>38<br/>40<br/>42<br/>10<br/>10<br/>10<br/>12<br/>10<br/>12<br/>14<br/>14<br/>16<br/>18<br/>18<br/>18<br/>18<br/>18<br/>18<br/>18<br/>18<br/>18<br/>18</td></tr> |          |                 | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
                                                          | LUGS: MECHANICAL<br>CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>26<br>28<br>30<br>32<br>34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE35SPARE37SPARE | O VA | 100% | 0 VA         0 VA         0 VA         0 VA | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>100 0 | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE | LUGS: MECHANICAL<br>J CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>14<br>16<br>18<br>20<br>22<br>24<br>24<br>26<br>28<br>30<br>32<br>34<br>36<br>38 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-119PWR - TF-221PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE | O VA | 100% | 0 VA         0 VA         0 VA         0 VA | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>100 0 | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20      1 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE | LUGS: MECHANICAL<br>CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>24<br>26<br>28<br>30<br>32<br>34<br>36 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL9RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE35SPARE39SPARE | O VA | 100%  NOTES | 0 VA         0 VA         0 VA | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>100 0<br>100 0<br>0 0<br>0 0 | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>696 0<br>696 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>0 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0<br>0<br>0 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE | LUGS: MECHANICAL<br>J CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>24<br>26<br>28<br>30<br>32<br>34<br>34<br>36<br>38 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE39SPARE41SPARE | O VA | 100% NOTES | 0 VA         0 VA         0 VA         0 VA | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>696 0<br>100 0<br>696 0<br>100 0<br>2728 VA<br>23 A | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>250 0<br>0<br>250 0<br>0<br>250 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  |
LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE | LUGS: MECHANICAL<br>J CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>14<br>16<br>18<br>20<br>22<br>22<br>24<br>24<br>26<br>28<br>30<br>32<br>34<br>34<br>36<br>38 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-103 GENERAL13PWR - EF-115PWR - EF-217PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE39SPARE41SPARE | O VA | 100%  NOTES  NOTES  TOTAL  TOTAL  TOTAL  DEMAND  ACTOR | 0 VA         0 VA         0 VA         0 VA | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>696 0<br>100 0<br>696 0<br>100 0<br>2728 VA<br>23 A | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>250 0<br>0<br>250 0<br>0<br>250 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0<br>0<br>0 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE | LUGS: MECHANICAL<br>J CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>14<br>16<br>18<br>20<br>22<br>22<br>24<br>24<br>26<br>28<br>30<br>32<br>34<br>34<br>36<br>38 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-119PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE36SPARE37SPARE39SPARE41SPARELOAD TYPEEXISTING LOAD (E)COOLING (C) | O VA (NEW) (NEW) (NEW) (NEW) (NEW) (OAD TYPE 104 M M M R R R L R M M M M M M M M M M M M | 100% 100% 100% 100% | 0 VA         12       20         12       20         12       20         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       11         12       12         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       1         20       1         20       1 | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>696 0<br>100 0<br>696 0<br>100 0<br>2728 VA<br>23 A | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>250 0<br>0<br>250 0<br>0<br>250 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0<br>0<br>0 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE SPARE<br>SPARE SPARE<br>SPARE SPARE SP | LUGS: MECHANICAL<br>I CKT<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>26<br>28<br>30<br>32<br>24<br>26<br>28<br>30<br>32<br>34<br>36<br>38<br>40<br>42 | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - TF WOMENS RR 2-1035PWR - TF WOMENS RR 2-1036PWR - TF WOMENS RR 2-1037RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE39SPARE41SPARE41SPARE41SPARE41SPARE41SPARE41SPARE41SPARE41SPARE | 0 VA         (NEW)         LOAD         TYPE         104       M         M       M         R       R         L       R         L       R         L       R         L       M         M       M         M       M         N       M         N       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M | 100% 100% 100% 100% 100% 125% | 0 VA         12       20         12       20         12       20         12       10         12       10         12       15         12       15         12       15         12       15         12       15         12       15         12       11         12       11         12       11 
       12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       11         12       1         20       1         20 | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>696 0<br>100 0<br>696 0<br>100 0<br>2728 VA<br>23 A | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>250 0<br>0<br>250 0<br>0<br>250 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0<br>0<br>0 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  | LINE-SIDE<br>DESCRIPTION<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE<br>SPARE SPARE<br>SPARE SPARE<br>SPARE SPARE SP | LUGS: MECHANICAL<br>NO.<br>2<br>4<br>6<br>8<br>10<br>12<br>14<br>16<br>18<br>20<br>22<br>24<br>24<br>26<br>28<br>30<br>22<br>24<br>26<br>28<br>30<br>32<br>34<br>36<br>38<br>40<br>42<br>DLOAD 7642 VA | PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-103 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE35SPARE37SPARE39SPARE41SPARE41SPARELOAD TYPEEXISTING LOAD (E)COOLING (C)HEATING (H) | 0 VA         (NEW)         LOAD         TYPE         104       M         M       M         R       R         L       R         L       R         L       R         M       M         M       M         M       M         N       M         N       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M | 100% 100% 100% 100% | 0 VA         12         12       20         12       20         12       20         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       15         12       20         12       20         12       20         12       20         12       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1         20       1 | AIC RAT<br>AIC RAT<br>SERVES<br>MOUNTI<br>LOCATIO<br>PHASE<br>A<br>696 0<br>540 0<br>696 0<br>696 0<br>696 0<br>100 0<br>696 0<br>100 0<br>2728 VA<br>23 A | ED: FULLY R<br>ING: FCA +10<br>S: TENNIS<br>ING: SURFAC<br>DN: MEP/Cus<br>PHASE<br>B<br>696 0<br>540 0<br>696 0<br>540 0<br>550 0<br>250 0<br>0<br>250 0<br>0<br>250 0<br>0<br>250 0 | ATED<br>% MINIMUM<br>E<br>stodian 2-102<br>PHASE<br>C<br>696 0<br>360 0<br>696 0<br>180 0<br>180 0<br>180 0<br>0<br>0 0 | P         BKR<br>AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20 |  |  |
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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE39SPARE41SPARE                                                                   | O VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-103 GENERAL13PWR - EF-115PWR - EF-217PWR - EF-217PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE39SPARE41SPARE                                                                       | O VA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-101/102 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-119PWR - TF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE33SPARE34SPARE35SPARE36SPARE37SPARE39SPARE41SPARELOAD TYPEEXISTING LOAD (E)COOLING (C)                | O VA (NEW) (NEW) (NEW) (NEW) (NEW) (OAD TYPE 104 M M M R R R L R M M M M M M M M M M M M                                                                                                                                                                                                                                                                                                                                                                                                                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| PANELBOARD: LDTBUS AMPS: 225AMAIN SIZE/TYPE: 150A M.C.B.VOLTS/PHASE: 208Y/120 V 3P/4WSUPPLIED BY: HDT VIA TX-LDTCKTDESCRIPTIONNO.1PWR - EF WOMENS RR 2-1035PWR - EF MENS RR 2-1035PWR - TF WOMENS RR7RCPT - 2-104 GENERAL9RCPT - 2-103 GENERAL11RCPT - 2-103 GENERAL13PWR - EF-115PWR - EF-217PWR - FF-221PWR - RECIRC PUMP23RCPT - 2-101 EXTERIOR25PWR - RR MOTORIZED DA27PWR - RR AUTO FAUCETS31SPARE35SPARE37SPARE39SPARE41SPARE41SPARELOAD TYPEEXISTING LOAD (E)COOLING (C)HEATING (H)                                   | 0 VA         (NEW)         LOAD         TYPE         104       M         M       M         R       R         L       R         L       R         L       R         M       M         M       M         M       M         N       M         N       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         M       M         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BUS MAIN VOLT	NELBOARD: HDT (NEW) AMPS: 125A SIZE/TYPE: 125A M.C.B. S/PHASE: 480Y/277 V 3P/4W LIED BY: MDP				FAULT C AIC RAT AIC RAT SERVES MOUNTI LOCATIC	ED: FULLY F ING: FCA +10 :: TENNIS NG: SURFAC	% MINIMUM	AM				PMENT GROUND BUS
CKT NO.	DESCRIPTION	LOAD NOTE		BKR	P PHASE	PHASE	PHASE	P BKR	WIRE NOTES SIZE	LOAD TYPE	DESCRIPTIO	N CKT NO.
1	PWR - UH TENNIS STORAGE 2-101	U	12	20		2728 478	7	1 20 1 20	12 12	L	LTS - RESTROOM BUILDIN	NG 2
5	TX-LDT	RZM	OL	70		2720 470	2682 3000	1 20	12	U	PWR - UH-1 PWR - UH-2	6
7 9			10		2232 3000	2500 1667	0500 4007	1 20	12			8 10
11 13	PWR - UH-3	U	12	20	3 2500 1667	1007 5000	2500 1667	3 20	12	U	PWR - UH-5	12 14
15 17	PWR - UH-4	U	12	20		1667 5000	1667 5000	3 25	10	U	WH1	16 18
19 21					1667 5000	2500 0	0500	1 20			SPARE	20 22
23 25	PWR - UH-6	U	12	20	3 2500 0		2500 0	1 20 1 20			SPARE SPARE	24 26
27 29	SPARE SPARE			20 20	1 1		0 0	1 20 1 20			SPARE SPARE	28 30
31 33	SPARE SPARE			20 20	1 0 0 1	0 0	]	1 20 1 20			SPARE SPARE	32 34
35 37	SPARE SPARE			20 20		]		1 20 1 20			SPARE SPARE	36 38
39 41	SPARE SPARE			20 20		0 0	0 0	1 20 1 20			SPARE SPARE	40 42
			AL LOAD	. ,	22129 VA 81 A	16539 VA 60 A	19015 VA 70 A	_				
LOAE	TYPE CONNECTED LOAD	DEMAND FACTOR		DEMA	ND PANELBOARD N	OTES					PANELBOARD TOTALS	
	ING LOAD (E)         0 VA           ING (C)         0 VA	100%		0 VA 0 VA							TOTAL CONNECTE	D LOAD 57684 VA
HEA	ING (C)         0 VA           ING (H)         0 VA           FING (L)         1037 VA	100% 125%		0 VA 0 VA 296 VA							TOTAL NE	C LOAD 58117 VA
REC	PTACLES (R) 1620 VA	100%	1	620 VA 776 VA							TOTAL CONNECTED C	
SUPF	DRS (M)         4776 VA           LEMENTAL HEAT (U)         49000 VA	100% 100%	49	000 V							TOTAL NEC DEMAND C	JRRENT 70 A
REFF	EQUIP (Z)         555 VA           IGERATION (F)         0 VA	100%		55 VA								
		100%		0 VA								
KITC	DISPLAY (D)         0 VA           1EN (K)         0 VA	125% 100%		0 VA 0 VA								
KITC LARC SHO	DISPLAY (D) 0 VA	125%	8	0 V A								
KITC LARC SHOV TRAC	DISPLAY (D)         0 VA           HEN (K)         0 VA           EST MOTOR         696 VA           V WINDOW (W)         0 VA	125% 100% 125% 125%	8	0 VA 0 VA 370 VA 0 VA	FAULT C AIC RAT		TO ONE-LINE DIAGRA	AM			EQUI	PMENT GROUND BUS
KITC LARC SHOV TRAC <b>PA</b> BUS MAIN VOLT	DISPLAY (D)0 VAHEN (K)0 VAEST MOTOR696 VAV WINDOW (W)0 VAK LIGHTING0 VA	125% 100% 125% 125%	8	0 VA 0 VA 370 VA 0 VA		ED: FULLY F ING: FCA +10 :: TENNIS NG: SURFAC	ATED % MINIMUM	AM				PMENT GROUND BUS
KITC LARC SHOV TRAC BUS MAIN VOLT SUPF CKT	DISPLAY (D)       0 VA         HEN (K)       0 VA         EST MOTOR       696 VA         V WINDOW (W)       0 VA         K LIGHTING       0 VA         NELBOARD: LDT (NEW)         AMPS: 225A         SIZE/TYPE: 150A M.C.B.         S/PHASE: 208Y/120 V 3P/4W	125% 100% 125% 125% 100%	S WIRE	0 VA 0 VA 70 VA 0 VA 0 VA	AIC RAT AIC RAT SERVES MOUNTI LOCATIO	ED: FULLY F ING: FCA +10 5: TENNIS NG: SURFAC DN: MEP/Cu PHASE	ATED % MINIMUM EE stodian 2-102 PHASE	P BKR		LOAD		ELUGS: MECHANICAL
KITC LARC SHOV TRAC BUS MAIN VOLT SUPF CKT NO. 1	DISPLAY (D) 0 VA HEN (K) 0 VA EST MOTOR 696 VA V WINDOW (W) 0 VA K LIGHTING 0 VA <b>NELBOARD: LDT (NEW)</b> AMPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: HDT VIA TX-LDT DESCRIPTION PWR - EF WOMENS RR 2-104	LOAD NOTE TYPE M	S WIRE SIZE	0 VA 0 VA 70 VA 0 VA 0 VA	AIC RAT AIC RAT SERVES MOUNTI LOCATIO P PHASE A 1 696 0	ED: FULLY F ING: FCA +10 D: TENNIS NG: SURFAC DN: MEP/Cu PHASE B	ATED % MINIMUM EE stodian 2-102	P BKR AMP 1 20	WIRE NOTES SIZE	TYPE	LINE-SIDE DESCRIPTIO SPARE	E LUGS: MECHANICAL N CKT NO. 2
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KITC LARC SHOY TRAC BUS MAIN VOLT SUPF CKT NO. 1 3 5 7 9	DISPLAY (D) 0 VA HEN (K) 0 VA EST MOTOR 696 VA V WINDOW (W) 0 VA K LIGHTING 0 VA <b>NELBOARD: LDT (NEW)</b> AMPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: HDT VIA TX-LDT DESCRIPTION PWR - EF WOMENS RR 2-104 PWR - EF MENS RR 2-103 PWR - TF WOMENS RR RCPT - 2-104 GENERAL RCPT - 2-103 GENERAL	LOAD NOTE TYPE M R R	S WIRE SIZE 12 12 12 12 12 12 12	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 20 20 20 20 20 20 20 20	AIC RAT AIC RAT SERVES MOUNTI LOCATIO P PHASE A 1 696 0 1 1 1 540 0 1	ED: FULLY F ING: FCA +10 D: TENNIS NG: SURFAC DN: MEP/Cu PHASE B	ATED % MINIMUM E stodian 2-102 PHASE C 696 0	P BKR AMP 1 20 1 20 1 20 1 20 1 20 1 20		TYPE	LINE-SIDE DESCRIPTIO SPARE SPARE SPARE SPARE SPARE SPARE	E LUGS: MECHANICAL N CKT NO. 2 4 6 8 10
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12	0 VA 0 VA 20 20 20 20 20 20 20 20 20 20	AIC RAT AIC RAT SERVES MOUNTI LOCATIO P PHASE A 1 696 0 1 1 1 540 0 1 1 1 540 0 1 1 1 696 0 1 1 1 696 0 1 1 1 696 0 1 1 1 696 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1	ED: FULLY F ING: FCA +10 S: TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 696 0 500 0 250 0 0 250 0 0 0 0 2682 VA 23 A	ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0 180 0 180 0 0 0 0 0 0 2232 VA	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20  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KITC LARC SHOV TRAC BUS MAIN VOLT SUPF CKT NO. 1 3 5 7 9 111 13 5 7 9 111 13 5 7 9 111 13 5 7 9 111 13 5 7 9 111 13 5 7 7 9 111 13 5 7 7 9 111 13 3 5 7 7 9 111 13 3 5 7 7 9 111 13 3 5 7 7 9 111 13 3 5 7 7 9 111 13 3 5 7 7 9 111 13 15 17 7 9 111 13 15 17 7 9 111 13 15 17 7 9 111 13 15 17 7 9 111 13 15 17 7 9 111 13 15 17 19 21 22 27 29 31 33 35 37 39 41 1 33 5 5 7 7 9 111 13 15 17 19 21 21 23 25 27 29 31 33 35 37 39 41 1 33 5 5 7 7 9 111 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 1 33 5 5 7 7 9 111 13 15 17 19 112 13 15 17 19 112 13 3 15 17 19 112 13 3 15 17 11 13 15 17 19 112 13 15 17 19 11 13 15 17 19 11 13 15 17 17 19 21 21 25 27 29 31 1 33 15 17 11 13 15 17 17 19 21 21 25 27 29 31 1 33 15 17 1 13 15 17 17 19 12 13 15 17 17 19 12 13 15 17 17 19 11 13 15 17 17 19 12 12 13 15 17 17 11 13 15 17 17 11 13 15 17 17 19 12 13 15 17 17 19 12 1 25 27 27 29 31 1 31 5 17 1 11 13 15 17 17 19 12 1 25 17 11 13 15 17 1 11 13 15 17 1 11 13 15 17 11 11 11 11 11 11 11 11 11 11 11 11	DISPLAY (D) 0 VA IEN (K) 0 VA EST MOTOR 696 VA V WINDOW (W) 0 VA K LIGHTING 0 VA <b>NELBOARD: LDT (NEW)</b> AMPS: 225A SIZE/TYPE: 150A M.C.B. S/PHASE: 208Y/120 V 3P/4W LIED BY: HDT VIA TX-LDT DESCRIPTION PWR - EF WOMENS RR 2-104 PWR - EF MENS RR 2-103 PWR - TF WOMENS RR RCPT - 2-104 GENERAL RCPT - 2-103 GENERAL RCPT - 2-103 GENERAL RCPT - 2-101/102 GENERAL PWR - EF-1 PWR - EF-2 PWR - TF-2 PWR - TF-2 PWR - RECIRC PUMP RCPT - 2-101 EXTERIOR PWR - RR MOTORIZED DAMPERS PWR - RA UTO FAUCETS SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE 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        M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M <td>S WIRE SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 20 20 20 20 20 20 20 20 20 20</td> <td>AIC RAT AIC RAT SERVES MOUNTI LOCATION P PHASE A 1 696 0 1 1 540 0 1 1 1 540 0 1 1 1 540 0 1 1 1 1 696 0 1 1 1 1 696 0 1 1 1 1 1 1 1 1 1 696 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>ED: FULLY F ING: FCA +10 S: TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 696 0 500 0 250 0 0 250 0 0 0 0 2682 VA 23 A</td> <td>ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0 180 0 180 0 0 0 0 0 0 2232 VA</td> <td>P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20 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7 7 7 9 9 1 1 3 3 1 3 5 5 7 7 7 7 9 9 1 3 1 3 7 7 7 7 9 9 1 1 1 3 3 5 5 7 7 1 3 9 1 4 1 1 1 1 1 3 1 7 7 1 1 1 1 1 1 1 1 1 1 1	DISPLAY (D)0 VAIEN (K)0 VAEST MOTOR696 VAV WINDOW (W)0 VAK LIGHTING0 VAMPS: 225ASIZE/TYPE: 150A M.C.B.S/PHASE: 208Y/120 V 3P/4WLIED BY: HDT VIA TX-LDTDESCRIPTIONPWR - EF WOMENS RR 2-104PWR - EF WOMENS RRRCPT - 2-104 GENERALRCPT - 2-103 GENERALRCPT - 2-101/102 GENERALPWR - EF-1PWR - EF-2PWR - FF-2PWR - FF-2PWR - RECIRC PUMPRCPT - 2-101 EXTERIORPWR - RR MOTORIZED DAMPERSPWR - RR AUTO FAUCETSSPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARESPARE<	125%         100%         125%         125%         100%         125%         100%         R         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M         M <td>S WIRE SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12</td> <td>0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 20 20 20 20 20 20 20 20 20 20</td> <td>AIC RAT AIC RAT SERVES MOUNTI LOCATION P PHASE A 1 696 0 1 1 540 0 1 1 1 540 0 1 1 1 540 0 1 1 1 696 0 1 1 1 696 0 1 1 1 696 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1</td> <td>ED: FULLY F ING: FCA +10 S: TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 696 0 500 0 250 0 0 250 0 0 0 0 2682 VA 23 A</td> <td>ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0 180 0 180 0 0 0 0 0 0 2232 VA</td> <td>P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20  </td> <td></td> <td>TYPE</td> <td>LINE-SIDE DESCRIPTIO SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE 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38 40 36 38 40 42 42 42 42 42 42 42 42 42 42 42 42 42</td>	S WIRE SIZE 12 12 12 12 12 12 12 12 12 12 12 12 12	0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 20 20 20 20 20 20 20 20 20 20	AIC RAT AIC RAT SERVES MOUNTI LOCATION P PHASE A 1 696 0 1 1 540 0 1 1 1 540 0 1 1 1 540 0 1 1 1 696 0 1 1 1 696 0 1 1 1 696 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1	ED: FULLY F ING: FCA +10 S: TENNIS NG: SURFAC DN: MEP/Cu PHASE B 696 0 540 0 696 0 696 0 500 0 250 0 0 250 0 0 0 0 2682 VA 23 A	ATED % MINIMUM E stodian 2-102 PHASE C 696 0 360 0 696 0 180 0 180 0 180 0 0 0 0 0 0 2232 VA	P         BKR AMP           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1         20           1     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	LOAD
EXISTING LOAD (E)	0 V A
COOLING (C)	0 V A
HEATING (H)	0 VA
LIGHTING (L)	0 VA
RECEPTACLES (R)	1620 VA
MOTORS (M)	4776 VA
SUPPLEMENTAL HEAT (U)	0 V A
MISC EQUIP (Z)	550 VA
REFRIGERATION (F)	0 V A
SIGN/DISPLAY (D)	0 VA
KITCHEN (K)	0 VA
LARGEST MOTOR	696 VA
SHOW WINDOW (W)	0 VA
TRACK LIGHTING	0 VA

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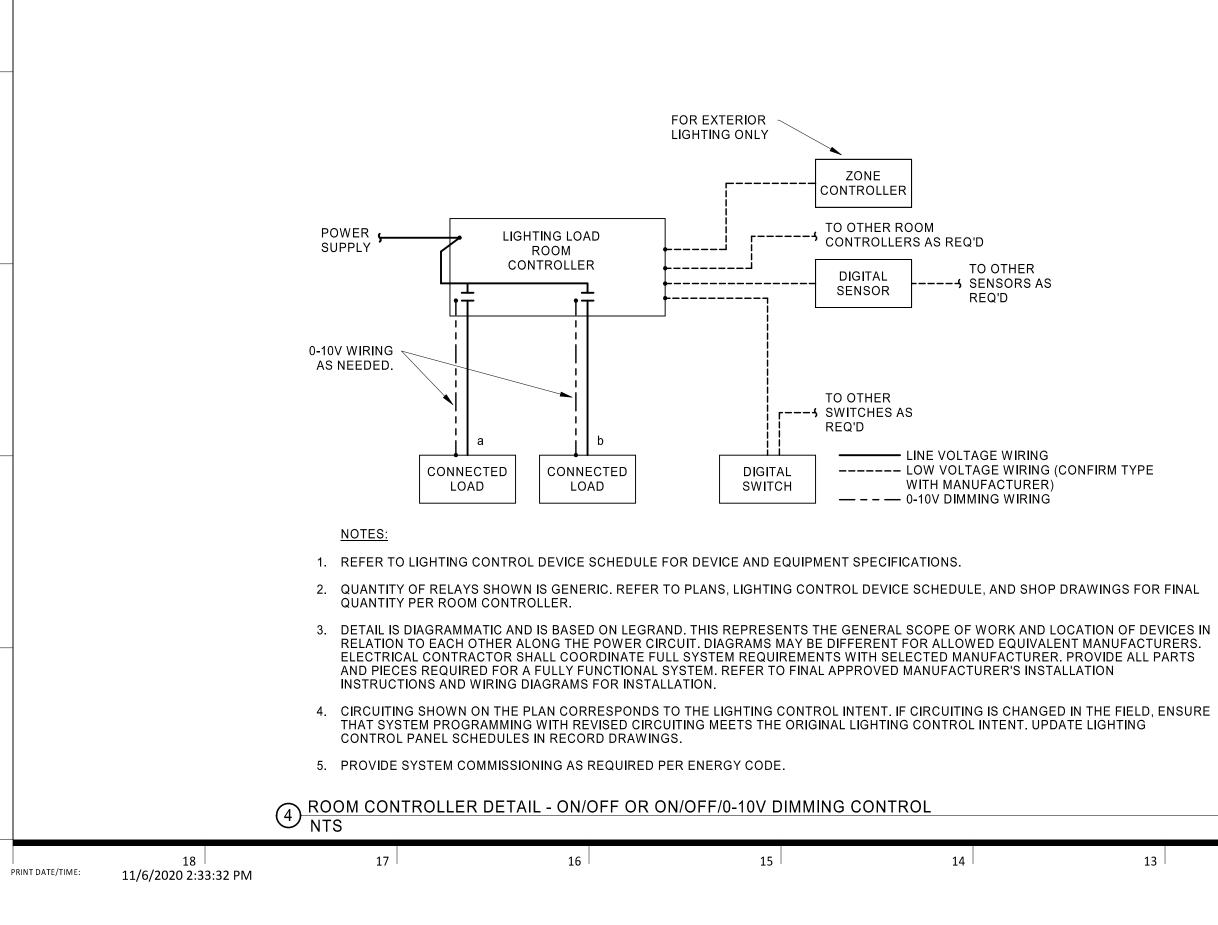
14

			STAND-ALONE LOW-VOLTAGE LIGHTING CONTROL SYSTEMS STAND-ALONE LOW-VOLTAGE OCCUPANCY SENSORS			
SYMBOL	MANUFACTURER	ALTERNATE		COVERAGE		
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	(WXD)	VOLTAGE	NOTE
	LEGRAND	ACUITY, COOPER	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR.	PIR MAJOR 36' Ø	24	
	DT-300	HUBBELL, LEVITON	360 DEGREE COVERAGE. LOW VOLTAGE. ISOLATED RELAY.	PIR MINOR 25' Ø		
				ULT 36' x 36'		
	LEGRAND	ACUITY, COOPER	CEILING/WALL MOUNT PASSIVE INFRARED OCCUPANCY SENSOR.	MAJOR 50' Ø	24	
	CB-100	HUBBELL	90 DEGREE COVERAGE. LOW VOLTAGE. GASKETED AND WATERTIGHT.	MINOR 25' Ø		
B			RATED FOR -40 DEGREES FAHRENHEIT.			
		I	STAND-ALONE LOW-VOLTAGE PHOTOELECTRIC SWITCHES			
SYMBOL TAG		ALTERNATE	DEVICE DESCRIPTION		VOLTAGE	NOTE
TAG	MODEL/SERIES LEGRAND	MANUFACTURER ACUITY	EXTERIOR LOW-VOLTAGE PHOTOELECTRIC SWITCH. FACE SENSOR NORTH AND ORIENT		24	NOTE
	EM-24D2	HUBBELL	VERTICALLY, 0-15 FC.		27	
PC		LEVITON				
			STAND-ALONE LOW-VOLTAGE POWER PACKS			
SYMBOL	MANUFACTURER					NOTT
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION	1	VOLTAGE	NOTE
	LEGRAND BZ-250	ACUITY, COOPER HUBBELL, LEVITON	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (1) RELAY. MANUA AND AUTO-ON MODES, HOLD-ON AND -OFF INPUTS, LOAD: 16A AT 120V OR 277V.	L-	120/ 277	
$\frown$	BZ-250	HUBBELL, LEVITON			211	
BZ			OUTPUT: 225mA AT 24V. PLENUM RATED.			
	LEGRAND	ACUITY, COOPER	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (2) RELAYS. MANU	AL-	120/	
	C SERIES	HUBBELL, LEVITON	AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V.		277	
(B1)			OUTPUT: 225mA AT 24V. PLENUM RATED.			
			CONTRACTOR TO PROVIDE CORRECT VOLTAGE FOR APPLICATION.			
	LEGRAND	ACUITY, COOPER	ROOM CONTROLLER FOR LOW VOLTAGE OCCUPANCY SENSORS. 20A LOAD. (2) RELAY.		120/	
	LMRC-212	HUBBELL, LEVITON	MANUAL AND AUTO-ON MODES. HOLD-ON AND -OFF INPUTS. LOAD: 16A AT 120V OR 277V		277	
D2C			OUTPUT: 225mA AT 24V. PLENUM RATED.			
			0-10V DIMMING CONTROL.			
SYMBOL	MANUFACTURER	ALTERNATE	STAND-ALONE LOW-VOLTAGE SWITCHES			
TAG	MODEL/SERIES	MANUFACTURER	DEVICE DESCRIPTION		VOLTAGE	NOTE
	LEGRAND	ACUITY, COOPER	MOMENTARY 1-BUTTON DECORATOR SWITCH FOR MANUAL ON/OFF CONTROL OF STAN	)-	24	
	DCC2	HUBBELL, LEVITON	ALONE LOW-VOLTAGE OCCUPANCY SENSORS. INTEGRAL LED ILLUMINATES WHEN LOAD	IS		
\$ <sup>LV</sup>			ON.			
Ψ	. =					
			4-BUTTON LOW VOLTAGE SWITCH FOR ON/OFF AND DIMMING CONTROL OF 2 RELAYS.		24	
	LMSW-104	HUBBELL, LEVITON				
\$ <sup>LVD</sup>						
			AUXILIARY NETWORK LIGHTING EQUIPMENT			
SYMBOL	MANUFACTURER	ALTERNATE				
TAG	MODEL/SERIES	MANUFACTURER			VOLTAGE	NOTE
		ACUITY, CRESTRON	ZONE CONTROLLER. ASTRONOMIC TIMECLOCK. 99 LIGHTING GROUPS. BACNET MS/TP		120/	
ZC	LMCZ-301	ETC, HUBBELL	COMPATIBLE. (2) RJ45 PORTS. SURFACE MOUNTED. PLENUM RATED. PROVIDE DLM 24V		277	
			POWER BOOSTERS AS REQUIRED PER SYSTEM DESIGN.			
	TES:	1	1			l
. OCCUPANC	Y SENSOR LAYOUT DES	SIGNED FROM BASIS-OF-I	DESIGN COVERAGE PATTERNS. IF SUBMITTING ALTERNATE PER 'EQUIVALENT MANUFACT	URER'		
COLUMN, A	DJUST SENSOR QUANT	ITIES AND LOCATIONS PI	ER MANUFACTURER-SPECIFIC SPACING CRITERIA.			
. PROVIDE SH	HOP DRAWINGS FOR EN	IGINEER AND ARCHITECT	FREVIEW THAT INCLUDE PRODUCT CUTSHEETS AND PROJECT-SPECIFIC LAYOUTS. LAYOU	JTS		
MUST INCL	UDE SENSOR LOCATION	NS, HEIGHTS, ORIENTATIO	ON, AND COVERAGE AREAS. SHOW COORDINATION WITH ALL OTHER CEILING DEVICES			
			RN GRILLES, SPRINKLERS, LIGHT FIXTURES, AND OTHER OWNER-PROVIDED CEILING MOU!			
			ECTORS, ETC. (SENSORS MAY BE ADVERSELY AFFECTED IF LOCATED TOO CLOSE TO OTH	ER		
	,		AND SCHEDULES WHEN APPLICABLE.			
			ARATE OF ANY LIGHT FIXTURE PRICING.			
			EVICES WITH THE ARCHITECT. ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO. CONFIRM SENSOR SETTINGS WITH			
		OWNER PRIOR TO SYSTE				
			RUCTIONS FOR ALL DEVICES TO OWNER.			
			OCATIONS PER NEC REQUIREMENTS.			
		TOR ON LOAD SIDE OF D				
. DO NOT SH						
. DO NOT SH						VERSION: 4.

### LIGHTING CONTROL SEQUENCE OF OPERATIONS:

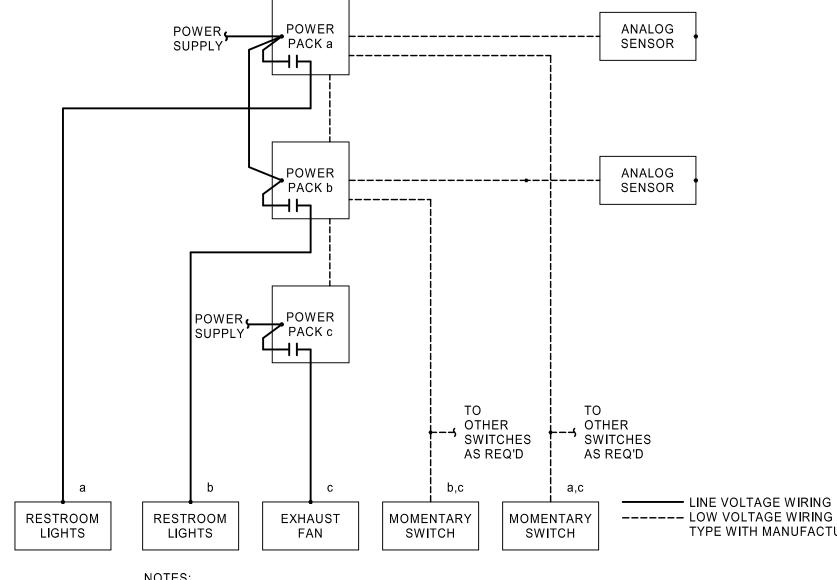
GENERAL NOTE: CONFIRM ALL SENSOR TIME DELAYS WITH OWNER PRIOR TO FINAL PROGRAMMING.

- A. GENERAL REQUIREMENTS 1. Emergency Lighting: Emergency egress lighting is powered from emergency battery ballasts and drivers integral to fixtures designated as emergency. Upon loss of power, all lights designated as emergency shall turn on at full emergency battery back-up output.
- . Security Lighting: Night lights, labeled "NL" in building corridor for security purposes: 3. Lighting control type: Occupancy and Vacancy Sensors
- I. Corridor, Cafeteria and Gymnasium occupancy sensors set to time out after 30 minutes . Offices and Classrooms sensors set to time out after 20 minutes
- . Back of house room type sensors set to time out after 20 minutes 7. All lighting controls in project scope are stand-alone type.
- B. POWER PACK BZ
- 1. Manual Control: Occupant can manually control lights via local switch(es). At electrical equipment, keyed switch shall override occupancy sensor function and keep lights on during panel board maintenance. 2. Occupancy: Occupant must manually turn on lights. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.
- C. POWER PACK B1
- 1. Manual Control: Occupant can manually control lights and exhaust fan together via local switch(es). 2. Occupancy: Occupant must manually turn on lights and exhaust fan. 3. Vacancy: After 20 minutes, all controlled loads shall turn off.
- D. ROOM CONTROLLER D2C 1. Manual Control: Occupant can manually control lights and dim via local switch(es). Switches shall dim in separate zones as designated as 'a', 'b' etc on plans. 2. Occupancy: Occupant must manually turn on lights.
- 3. Vacancy: After 20 minutes, all controlled loads shall turn off.
- E. SIGNAGE LIGHTING 1. Automatic Control: Fixtures illuminating signs and backlit signage shall be turned on via single photocell and turned off via astronomical timeclock. Route through BAS. 2. Coordinate additional programing requirements with owner.



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				GHT F				JOLL	-	
				LAMPING /			INPUT			
YPE	MANUFACTURER	MODEL	APPROVED EQUIVALENTS	SOURCE	TYPE	VOLTAGE	WATTS	INPUT VA	DESCRIPTION	NOTES
A4	HE WILLIAMS	50-*CEILING*-2-4-L33-80-35-AF12125-DIM-UNV	COLUMBIA LIGHTING LLT24 SERIES	LED 3500K 80CRI	0-10V	UNV	25	28	2'x4' RECESSED LED TROFFER. 3300 LUMEN	
\4E	HE WILLIAMS	50-*CEILING*-2-4-L33-80-35-AF12125-EM/10W-DIM-UNV	-	LED 3500K 80CRI	0-10V	UNV	25	28	SAME AS A4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
OW1	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY	HUBBELL LIGHTING PRESCOLITE LTC-3RDW GOTHAM 4" INCITO SERIES LITHONIA LIGHTING LDN4CYL SERIES LITHONIA LIGHTING GTL SERIES	LED 3500K 80CRI	0-10V	UNV	18	20	4.5" SURFACE MOUNTED WET LOCATION LISTED DOWNLIGHT. 1500 LUMEN. 3500K. 54° BEAM.	
W1E	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY EM DRIVER: ASSURANCE EM LIGHTING L16-C	-	LED 3500K 80CRI	0-10V	UNV	18	20	SAME AS DW1 WITH INTEGRAL 7W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES	
EL	HE WILLIAMS	96-4-L62-80-35-HIAFR-EM/10W-WET/1-DRV-UNV	COLUMBIA LIGHTING LXEM	LED 4000K 80CRI	0-10V	UNV	45	50	4' LINEAR FOR ELEVATOR SHAFT. WET LOCATION LISTED. 6200 LUMEN. 4000K	
F4S	FOCAL POINT	SEEM 4 FSM4LS SERIES	LITECONTROL MOD 4 PENDANT LED 4L-P-D SERIES 3G LIGHTING 3G-4PLI-D PINNACLE ARCHITECTURAL LIGHTING EDGE EX4D SERIES	LED 3500K 80 CRI	0-10V	UNV	26	29	4' SUSPENDED LINEAR LED. 2810 LUMEN. BOTTOM OF FIXTURE TO BE 8'-4" AFF.	
G1	LUMENWERX	VIAWETASYS-PYC-HLO-LED-80-500-35-6-UNV-D1-1-GSM TF-*COLOR*	LITECONTROL MOD 4 PENDANT LED 4L-P-D SERIES AXIS LIGHTING - WET BEAM 4 LED SURFACE SERIES	LED 3500K 80CRI	0-10V	UNV	30	33	6' RECESSED LINEAR WITH 500 LM/FT AND ASYMMETRICAL DISTRIBUTION. SUITABLE FOR WET LOCATION.	
H4	HE WILLIAMS	75L-4-L50-8-35-AF12125-DIM-UNV	COLUMBIA LIGHTING MPS SERIES	LED 3500K 80CRI	0-10V	UNV	32	36	4' LINEAR SUSPENDED/WALL MOUNTED FIXTURE. 5000 LUMEN.	
H4E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM/10WLP-DIM-UNV		LED 3500K 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
H5E	HE WILLIAMS	75L-4-L50-8-35-AF12125-EM/10WLP-DIM-UNV- OCCWS-FSP-211-L2-120/277		LED 3500K 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL OCCUPANCY SENSOR AND 10W BATTERY BACK UP TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
IWE	HE WILLIAMS		HUBBELL LIGHTING SLING SERIES	LED 3500K 80CRI	0-10V	UNV	70	77	WALL MOUNTED LED SCONCE. WET LOCATION LISTED. TFT DISTRIBUTION. 6000 LUMEN. INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES. MOUNT 20'-0" AFF.	
L1	LUMINII	VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM-UNV DRIVER: PS010V-96-24-LIN	GENLED ACOLYTE RIBBONLYTE 6.0 CALI LLED 8000 SERIES QTRAN SW24/5.0 SERIES	LED 3500K 80CRI	0-10V	UNV	9	10	WET LOCATION RATED 24V LED TAPE LIGHT WITH REMOTE DAMP LOCATION RATED 96WATT, 277 - 24V LED DRIVER. NARROW DISTRIBUTION. 3500K. 706 LUMEN/FT. 9 W/FT. PROVIDE CHANNEL AND ADDITIONAL WET LOCATION RATED FITTINGS FOR A FULLY FUNCTIONING TAPE LIGHTING SYSTEM. PROVIDE LUMINII CLASS 2 0-10V DIMMING DRIVERS WITH 1 AND 3 OUTPUTS AS NEEDED.	
L2	LUMENPULSE	LOGASHRAE-277-48-35K-WWRF-UMAS-DIM-ETE	KIM LIGHTING INT SERIES	LED 3500K 80CRI" LED 3500K 80CRI	0-10V	UNV	5	6	WET LOCATION RATED LINEAR GRADING FAÇADE FIXTURE WITH ASYMMETRICAL DISTRIBUTION AND ADJUSTABLE STANDOFF ARM MOUNT. 5W/FT. PROVIDE END-TO-END CONTINUOUS MOUNTING TO MATCH LENGTH OF SIGN.	
Х	HE WILLIAMS	EXIT CA SERIES	DUAL-LITE LE SERIES LITHONIA LE SERIES ISOLITE RL SERIES LITHONIA LE SERIES HE WILLIAMS EXIT SERIES	LED	-	UNV	5	5	UNIVERSAL MOUNT LED EXIT SIGN. RED LETTERS.	
XW	HE WILLIAMS	EXIT/WET/CP	ISOLITE RWL SERIES LITHONIA WLTE SERIES	LED	-		5	5	UNIVERSAL MOUNT LED EXIT SIGN. WET LOCATION LISTED. RED LETTERS.	
Y4	COOPER LIGHTING	4VRVT3-5-G-UNV-L835-CD1	KURTZON WL-SEG-740 SERIES	LED 3500K 80CRI	0-10V	UNV	44	49	4' VANDAL RESISTANT VAPORTITE LED. 5000 LUMEN. GENERAL DISTRIBUTION.	
Y4E	COOPER LIGHTING	4VRVT3-5-G-UNV-L835-CD1	r - r	LED 3500K 80CRI	0-10V	UNV	44	49	SAME AS Y4 WITH INTEGRAL 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES.	
			hummun							



NOTES:

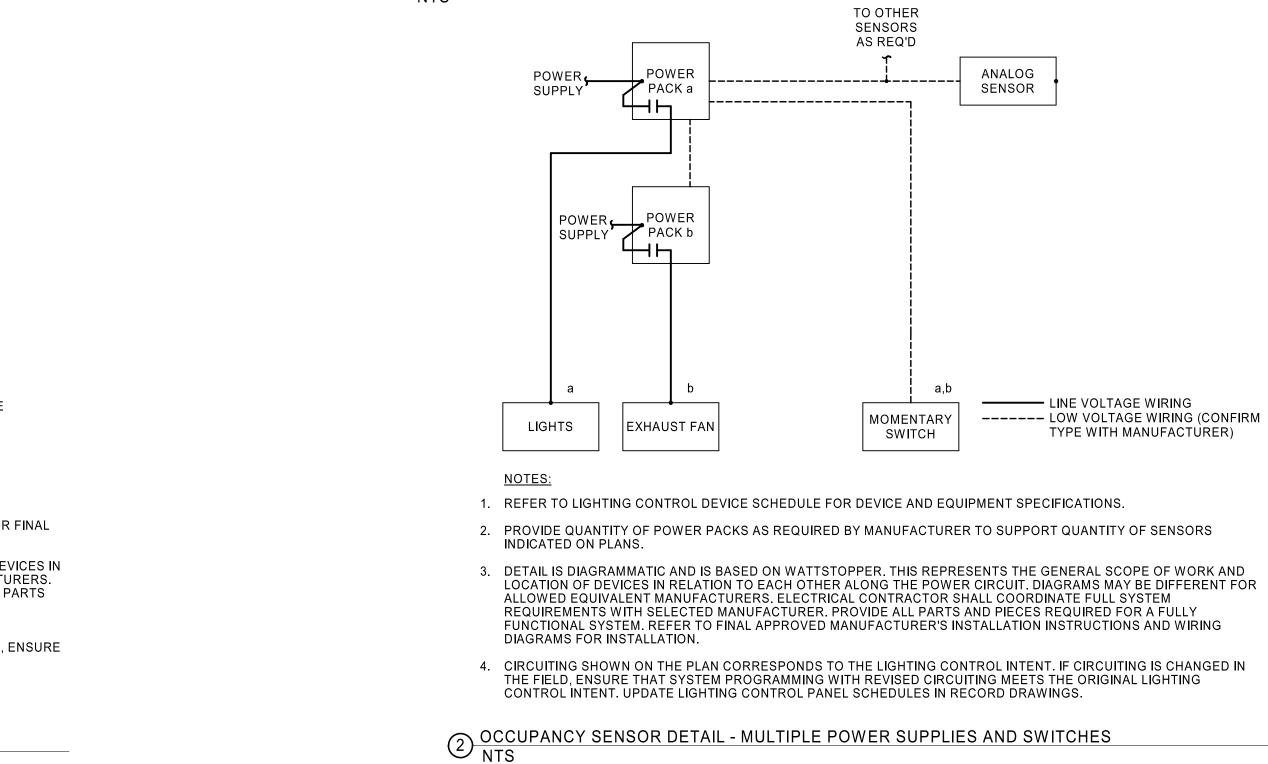
1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS. 2. PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.

3. DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING

DIAGRAMS FOR INSTALLATION. 4. CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD. ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING

CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS. 5. PROVIDE SYSTEM COMMISSIONING AS REQUIRED PER ENERGY CODE.

OCCUPANCY SENSOR DETAIL - MULTIPLE POWER SUPPLIES AND SWITCHES NTS



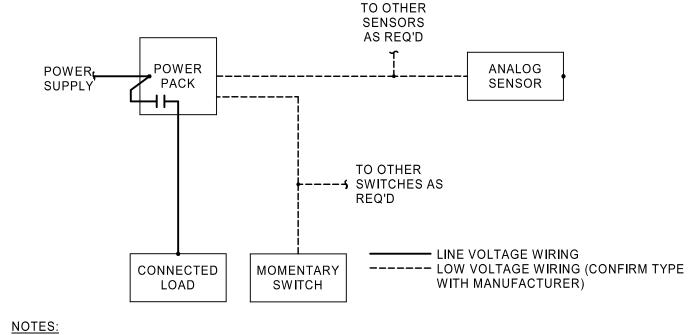
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LIGHT FIXTURE SCHEDULE GENERAL NOTES:

- 1. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- 2. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR AS PART OF THE BASE BID, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR OWNER FURNISHED LIGHT FIXTURES.
- 3. THE PARTY SUPPLYING THE LIGHT FIXTURES IS RESPONSIBLE FOR SUPPLYING THE PROPER QUANTITY OF LIGHT FIXTURES.

### LIGHT FIXTURE SCHEDULE SUPPLEMENTAL SPECIFICATIONS:

- 1. ANY PROPRIETARY, SOLE-SOURCED LIGHT FIXTURE LISTED IN THE LIGHT FIXTURE SCHEDULE SHALL BE UNIT PRICED ONLY NO PACKAGING OR LOT PRICING OF THESE LIGHT FIXTURES SHALL BE ALLOWED. UNIT PRICES SHALL BE CLEARLY IDENTIFIED ON THE BID FORM.
- 2. PACKAGING OF LIGHT FIXTURES WILL NOT BE CONSIDERED OR APPROVED. REPRESENTATIVE AGENTS SHALL BE ALLOWED TO OFFER MINI-LOT PRICING (MLP) FOR LIGHT FIXTURES AS ALLOWED IN ELECTRICAL SPECIFICATIONS.
- 3. LIGHTING CONTROLS PRICING, INCLUDING BUT NOT LIMITED TO THOSE REFERENCED IN ELECTRICAL SPECIFICATIONS, SHALL BE COMPLETELY SEPARATE OF ANY LIGHT FIXTURE PRICING. ANY LIGHTING CONTROLS PRICING THAT IS SUBMITTED WITH LIGHT FIXTURE PRICING (UNIT OR MINI-LOT) WILL BE IMMEDIATELY REJECTED IN ITS ENTIRETY
- 4. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.
- 5. FOR SUBSTITUTIONS: PROVIDE PHOTOMETRIC CALCULATIONS AND OTHER NECESSARY INFORMATION FOR ENGINEER REVIEW. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
- 6. COORDINATE LIGHT FIXTURE MOUNTING HARDWARE AND TRIMS NEEDED TO SUIT CEILING CONDITIONS. LIGHT FIXTURES NEAR OR IN CONTACT WITH INSULATION SHALL COMPLY WITH CODE. MAINTAIN 3" MINIMUM WORKING CLEARANCE BETWEEN NON-IC RATED LIGHT FIXTURE HOUSINGS AND INSULATION ON ALL ADJACENT DUCTWORK, PIPING, WALLS, AND CEILINGS.
- 7. STRIP LIGHT FIXTURES SUBJECT TO DAMAGE, INCLUDING THOSE MOUNTED ON EQUIPMENT MEZZANINES, STORAGE, RECEIVING AND STOCKROOM AREAS, SHALL BE PROVIDED WITH WIRE GUARDS, PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS/LIGHT SOURCES. COORDINATE REQUIREMENTS AND AFFECTED LIGHT FIXTURES WITH OWNER.



- 1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- 2. PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS INDICATED ON PLANS.
- 3. DETAIL IS DIAGRAMMATIC AND IS BASED ON WATTSTOPPER. THIS REPRESENTS THE GENERAL SCOPE OF WORK AND LOCATION OF DEVICES IN RELATION TO EACH OTHER ALONG THE POWER CIRCUIT. DIAGRAMS MAY BE DIFFERENT FOR ALLOWED EQUIVALENT MANUFACTURERS. ELECTRICAL CONTRACTOR SHALL COORDINATE FULL SYSTEM REQUIREMENTS WITH SELECTED MANUFACTURER. PROVIDE ALL PARTS AND PIECES REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. REFER TO FINAL APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WIRING DIAGRAMS FOR INSTALLATION.
- 4. CIRCUITING SHOWN ON THE PLAN CORRESPONDS TO THE LIGHTING CONTROL INTENT. IF CIRCUITING IS CHANGED IN THE FIELD, ENSURE THAT SYSTEM PROGRAMMING WITH REVISED CIRCUITING MEETS THE ORIGINAL LIGHTING CONTROL INTENT. UPDATE LIGHTING CONTROL PANEL SCHEDULES IN RECORD DRAWINGS.

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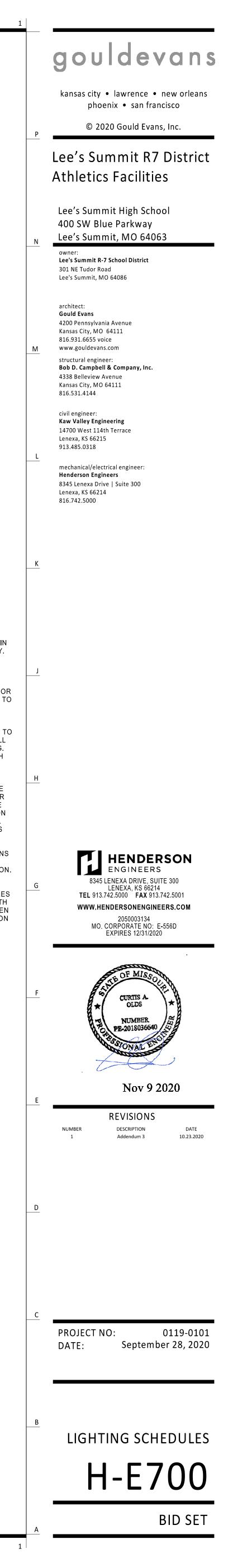
OCCUPANCY SENSOR DETAIL - SINGLE POWER SUPPY AND SWITCH

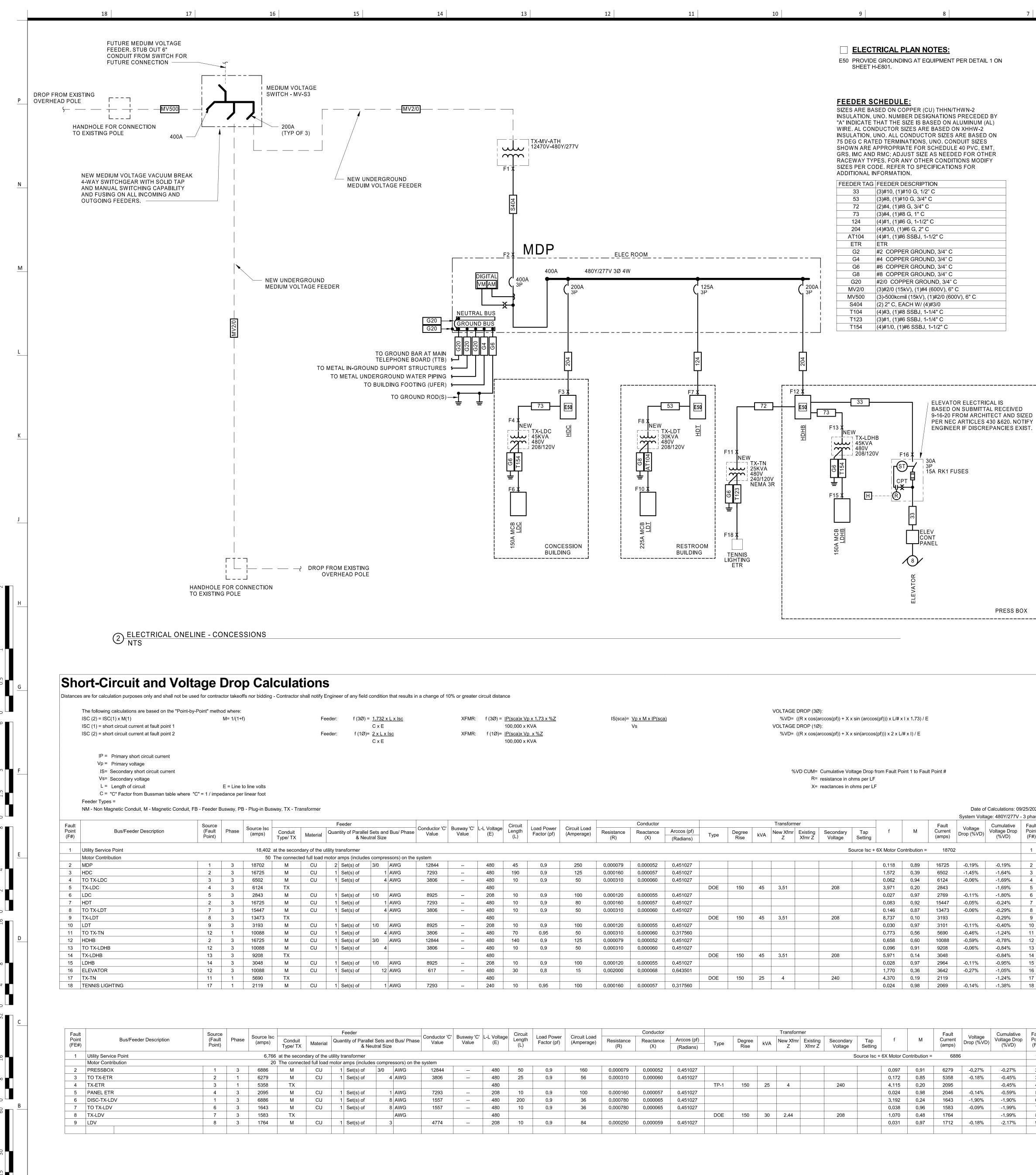
### ----- LOW VOLTAGE WIRING (CONFIRM TYPE WITH MANUFACTURER)

# TYPE WITH MANUFACTURER)

7 |

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PRINT DATE/TIME:

16 |

15

											%	R=	Cumulative Vo resistance in o reactances in o	hms per LF		oint 1 to Fau	It Point #			
																			Calculations: 09	
		Circuit				Conductor					Transform	ner					Fault	-	ige: 480Y/277V	
ıy 'C' ıe	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Resistance (R)	Reactance (X)	Arccos (pf) (Radians)	Туре	Degree Rise	kVA	New Xfmr Z	Existing Xfmr Z	Secondary Voltage	Tap Setting	f	М	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)
	I		11		I	I	11		<u> </u>				S	ource lsc +	6X Motor Co	ontribution =	18702	2		1
	480	45	0.9	250	0.000079	0.000052	0.451027								0.118	0.89	16725	-0.19%	-0.19%	2
	480	190	0.9	125	0.000160	0.000057	0.451027								1.572	0.39	6502	-1.45%	-1.64%	3
	480	10	0.9	50	0.000310	0.000060	0.451027								0.062	0.94	6124	-0.06%	-1.69%	4
	480							DOE	150	45	3.51		208		3.971	0.20	2843		-1.69%	5
	208	10	0.9	100	0.000120	0.000055	0.451027								0.027	0.97	2769	-0.11%	-1.80%	6
	480	10	0.9	80	0.000160	0.000057	0.451027								0.083	0.92	15447	-0.05%	-0.24%	7
	480	10	0.9	50	0.000310	0.000060	0.451027								0.146	0.87	13473	-0.06%	-0.29%	8
	480							DOE	150	45	3.51		208		8.737	0.10	3193		-0.29%	9
	208	10	0.9	100	0.000120	0.000055	0.451027								0.030	0.97	3101	-0.11%	-0.40%	10
	480	70	0.95	50	0.000310	0.000060	0.317560								0.773	0.56	5690	-0.46%	-1.24%	11
	480	140	0.9	125	0.000079	0.000052	0.451027								0.658	0.60	10088	-0.59%	-0.78%	12
	480	10	0.9	50	0.000310	0.000060	0.451027								0.096	0.91	9208	-0.06%	-0.84%	13
	480							DOE	150	45	3.51		208		5.971	0.14	3048		-0.84%	14
	208	10	0.9	100	0.000120	0.000055	0.451027								0.028	0.97	2964	-0.11%	-0.95%	15
	480	30	0.8	15	0.002000	0.000068	0.643501								1.770	0.36	3642	-0.27%	-1.05%	16
	480							DOE	150	25	4		240		4.370	0.19	2119		-1.24%	17
	240	10	0.95	100	0.000160	0.000057	0.317560								0.024	0.98	2069	-0.14%	-1.38%	18

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	 	Circuit				Conductor					Transform	ner					Fault		
Algo         Control         C		Length	Load Power Factor (pf)	Circuit Load (Amperage)				Туре	Degree	kVA					f	М	Current	Voltage Drop (%VD)	\
480       50       0.9       160       0.00079       0.00052       0.451027       1       1       1       1       0.097       0.91       6279       -0.27%          480       25       0.9       56       0.00310       0.00060       0.451027       1       1       1       1       0.097       0.91       6279       -0.27%          480       25       0.9       56       0.00310       0.00060       0.451027       1       150       25       4       240       0.172       0.85       5358       -0.18%          480       10       0.9       100       0.00160       0.00057       0.451027       150       25       4       240       0.024       0.98       2046       -0.14%          208       10       0.9       36       0.00078       0.451027       150       26       4       240       163       3.192       0.24       1643       -1.90%          480       200       0.9       36       0.000780       0.451027       164       164       1.90%       1.90%       1.90%       1.90%       1.90%       1.90%       1.90%		(-)				(//)	(Radians)		1136		L		Voltage	Oetting			()		
$480$ $25$ $0.9$ $56$ $0.00310$ $0.00060$ $0.451027$ $1c$													S	ource Isc +	6X Motor Co	ntribution =	6886		
$480$ $25$ $0.9$ $56$ $0.00310$ $0.00060$ $0.451027$ $1c$																			
480 $480$ $10$ $100$ $100$ $100$ $1000$ $1000057$ $150$ $150$ $25$ $4$ $240$ $4.15$ $0.20$ $2095$ $2095$ $$ $208$ $10$ $0.9$ $100$ $0.00160$ $0.00057$ $0.451027$ $16$ $16$ $16$ $16$ $0.024$ $0.98$ $2046$ $-0.14%$ $$ $480$ $200$ $0.9$ $36$ $0.00780$ $0.00055$ $0.451027$ $16$ $16$ $16$ $16$ $3.192$ $0.24$ $1633$ $-1.90%$ $$ $480$ $10$ $0.9$ $36$ $0.00780$ $0.00065$ $0.451027$ $16$ $16$ $16$ $16$ $16$ $3.192$ $0.24$ $1633$ $-1.90%$ $$ $480$ $10$ $0.9$ $36$ $0.00780$ $0.00065$ $0.451027$ $16$ $16$ $16$ $16$ $16$ $0.038$ $0.96$ $1533$ $-0.09%$ $$ $480$ $10$ $0.9$ $36$ $0.00780$ $0.00065$ $0.451027$ $160$ $16$ $16$ $160$ $10.038$ $0.96$ $1533$ $-0.09%$ $$ $480$ $10$ $0.9$ $36$ $0.00780$ $0.00065$ $0.451027$ $160$ $160$ $2.44$ $160$ $10.038$ $0.96$ $1533$ $-0.09%$ $$ $480$ $10$ $10$ $10$ $10$ $10$ $10$ $10$ $10$ $10$ $10$ $10$ $100$ $100$ $100$ $100$ $100$ $100$ $100$	 480	50	0.9	160	0.000079	0.000052	0.451027								0.097	0.91	6279	-0.27%	
208         10         0.9         100         0.000160         0.00057         0.451027         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0         6.0	 480	25	0.9	56	0.000310	0.000060	0.451027								0.172	0.85	5358	-0.18%	
480       200       0.9       36       0.000780       0.00065       0.451027       1       1       1       1       3.192       0.24       1643       -1.90%          480       10       0.9       36       0.000780       0.00065       0.451027       1       1       1       1       1       0.038       0.96       1583       -0.09%          480       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th< td=""><td>480</td><td></td><td></td><td></td><td></td><td></td><td></td><td>TP-1</td><td>150</td><td>25</td><td>4</td><td></td><td>240</td><td></td><td>4.115</td><td>0.20</td><td>2095</td><td></td><td></td></th<>	480							TP-1	150	25	4		240		4.115	0.20	2095		
480       10       0.9       36       0.00780       0.00065       0.451027        6        6       6       6       0.038       0.96       1583      0.09%         480       480        480        6       0.028       0.045       0.0065       0.0451027       0.028       1.070       0.480       1764       0.09%	 208	10	0.9	100	0.000160	0.000057	0.451027								0.024	0.98	2046	-0.14%	
480 M M M M M M M M M M M M M M M M M M M	 480	200	0.9	36	0.000780	0.000065	0.451027								3.192	0.24	1643	-1.90%	
	 480	10	0.9	36	0.000780	0.000065	0.451027								0.038	0.96	1583	-0.09%	
208 10 0.9 84 0.00250 0.00059 0.451027	480							DOE	150	30	2.44		208		1.070	0.48	1764		
	 208	10	0.9	84	0.000250	0.000059	0.451027								0.031	0.97	1712	-0.18%	

						-
13	12	11	10	9	8	
10	12		10	5	0	

### **ELECTRICAL UTILITY CONTACT NOTE:** UTILITY COMPANY: EVERGY

UTILITY CONTACT: RON DEJARNETTE EMAIL: ron.dejarnette@evergy.com

### FAULT CURRENT GENERAL NOTE (ESTIMATED VALUE):

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE COULD NOT BE DETERMINED AT THE TIME OF THIS SUBMITTAL. THE ESTIMATED WORST CASE VALUE OF 18,402 A IS BASED ON AN INFINITE BUS CALCULATION AT THE UTILITY TRANSFORMER. CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS ESTIMATED CALCULATED VALUE. ESTIMATED DESIGN VALUE IS BASED ON THE FOLLOWING:

TX-MV-ATH: MEDIUM VOLTAGE TRANSFORMER PRIMARY VOLTAGE: 12,470V MEDIUM VOLTAGE TRANSFORMER SECONDARY VOLTAGE: 480Y/277V, 3Ø, 4W MEDIUM VOLTAGE TRANSFORMER SIZE: 300KVA, Z=2.0%

### BUILDING LOAD SUMMARY (MDP)

BUILDING OCCUPANCY TYPE: C	FFICE BUILDING	SERVICE D	ESCRIPTION:
BUILDING SQUARE FOOTAGE: 1	0000	480)	(/277 V
LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND
EXISTING LOAD (E)	0 VA	100%	0 VA
COOLING (C)	1061 VA	0%	0 VA
HEATING (H)	4000 VA	100%	4000 VA
LIGHTING (L) (PER NEC-220)	35000 VA	125%	43750 VA
RECEPTACLES (R)	12700 VA	89%	11350 VA
MOTORS (M)	11314 VA	100%	11314 VA
SUPPLEMENTAL HEAT (U)	105770 VA	100%	105770 VA
MISC EQUIP (Z)	24020 VA	100%	24020 VA
REFRIGERATION (F)	0 VA	100%	0 VA
SIGN/DISPLAY (D)	1200 VA	125%	1500 VA
KITCHEN (K)	8000 VA	65%	5200 VA
LARGEST MOTOR	9977 VA	125%	12471 VA
SHOW WINDOW (W)	0 VA	125%	0 VA
TRACK LIGHTING	0 VA	100%	0 VA
TOTAL LOAD	213042	VA	219375
TOTAL AMPACITY	256	AMPS	264
SERVICE AMPACITY		AMPS	400
SPARE CAPACITY		AMPS	136

### ONE-LINE DIAGRAM GENERAL NOTES:

- 1. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
- REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
- 3. FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
- 4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE, CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 6. INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
- 7. CIRCUIT BREAKERS RATED 1200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY PER CODE. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH OWNER ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
- 8. PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS): SERVICE EQUIPMENT LABEL
- EXAMPLE:
- 208Y/120V, 60HZ 800A SCCR = 65.000A
- MAX AVAILABLE FAULT CURRENT = 58.815A CALCULATED: 01/01/2018
- PANELBOARD/SWITCHBOARD LABEL LINE 1: PANELBOARD "\_\_\_\_\_" SUPPLIED BY UPSTREAM LINE 2: PANELBOARD/SWITCHBOARD "\_\_\_\_\_" LINE 3: LOCATED IN "
- LINE 4: PANELBOARD "\_\_\_\_\_" SUPPLIES DOWNSTREAM LINE 5: PANELBOARD(S) "\_\_\_\_\_" TRANSFORMERS LABEL: LINE 1: TRANSFORMER " " SUPPLIED BY UPSTREAM LINE 2: PANELBOARD/SWITCHBOARD "\_\_\_\_\_"
- LINE 3: LOCATED IN " \_\_\_\_\_\_" SUPPLIES DOWNSTREAM LINE 4: TRANSFORMER " LINE 5: PANELBOARD(S) "\_

### ONE-LINE DIAGRAM GENERAL NOTES:

- 1. COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
- 2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES (CIRCUIT BREAKERS AND FUSES) MUST HAVE AN AIC/SCCR RATING EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE OWNER AND THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
- 3. VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE OWNER AND THE ENGINEER OF ANY EXISTING DEFICIENCIES.
- 4. AS APPLICABLE, OBTAIN THE FOLLOWING INFORMATION IN REGARD TO THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AND REPORT FINDINGS TO THE ENGINEER FOR ANALYSIS PRIOR TO BEGINNING CONSTRUCTION:
- A. AVAILABLE FAULT CURRENT DELIVERED BY THE UTILITY COMPANY AT THE POINT OF SERVICE. INCLUDE THE AVAILABLE FAULT CURRENT DELIVERED TO THE TENANT SPACE BY THE OWNER'S DISTRIBUTION SYSTEM. B. PROVIDE A PLAN SKETCH OF THE OWNER'S DISTRIBUTION
- EQUIPMENT LOCATION RELATIVE TO THE ENTIRE BUILDING. INCLUDE THE LOCATION OF TENANT SPACE UTILITY METER AND SERVICE DISCONNECT, RELEVANT FEEDER ROUTING AND LENGTHS.
- C. PROVIDE A SKETCH OF THE ONE-LINE SHOWING THE PATH FROM THE UTILITY TRANSFORMER TO THE OWNER EQUIPMENT TO THE TENANT SPACE. INCLUDE FEEDER CONDUCTOR MATERIAL, (AL OR CU), NUMBER AND SIZE OF CONDUCTORS, GROUND, LENGTH, CONDUIT SIZE AND CONDUIT TYPE.
- D. TYPE OF SERVICE DISCONNECT OVER-CURRENT PROTECTION DEVICE, (FUSE OR CIRCUIT BREAKER), AMPERE RATING OF THE DEVICE AND AIC/SCCR RATING OF THE DEVICE. E. AIC/SCCR RATING AT EACH EXISTING

SWITCHBOARD/PANELBOARD.

- **ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:** 1. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS AND SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
- 2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
- 3. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
- 4. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
- 5. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

3 |

Cumulative Voltage Drop (%VD)	Fault Point (F#)
	1
-0.27%	2
-0.45%	3
-0.45%	4
-0.59%	5
-1.90%	6
-1.99%	7
-1.99%	8
-2.17%	9

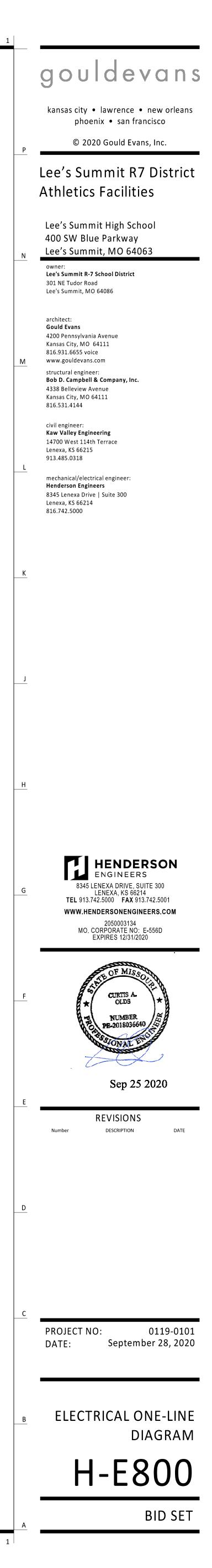
7

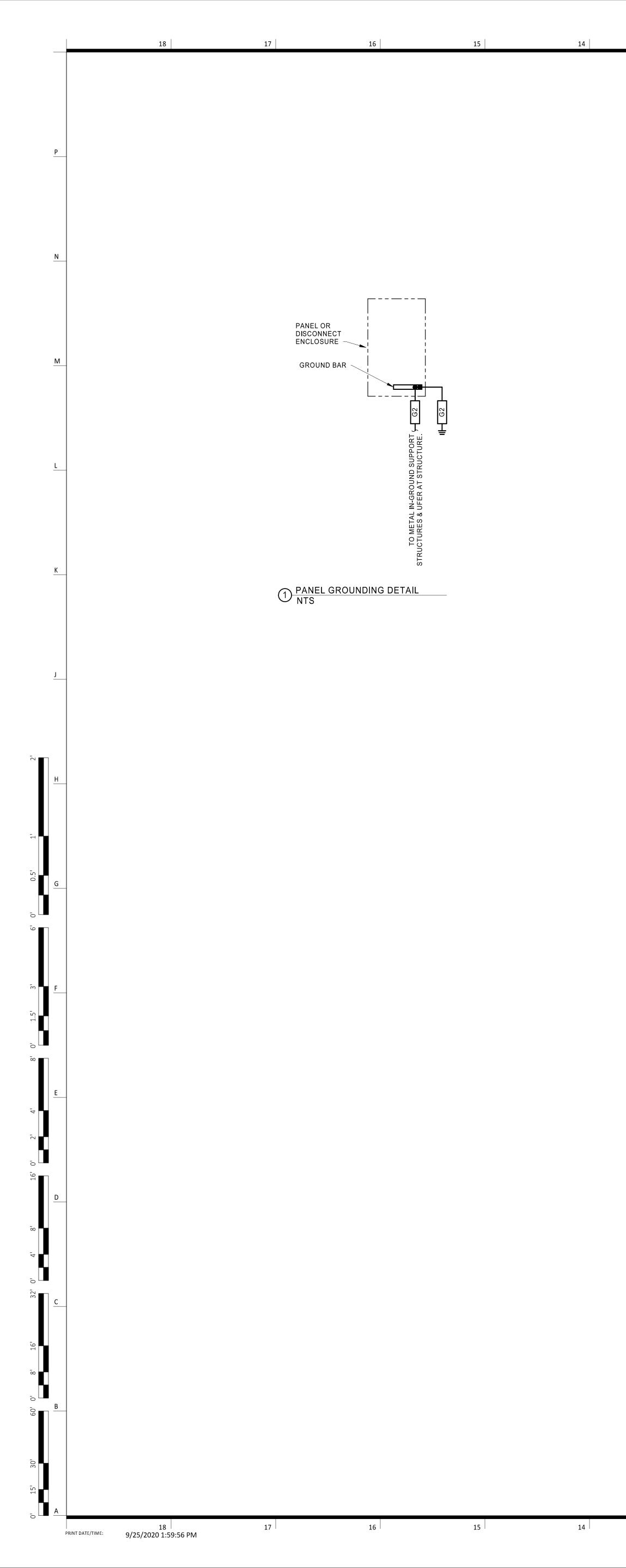
PRESS BOX

6

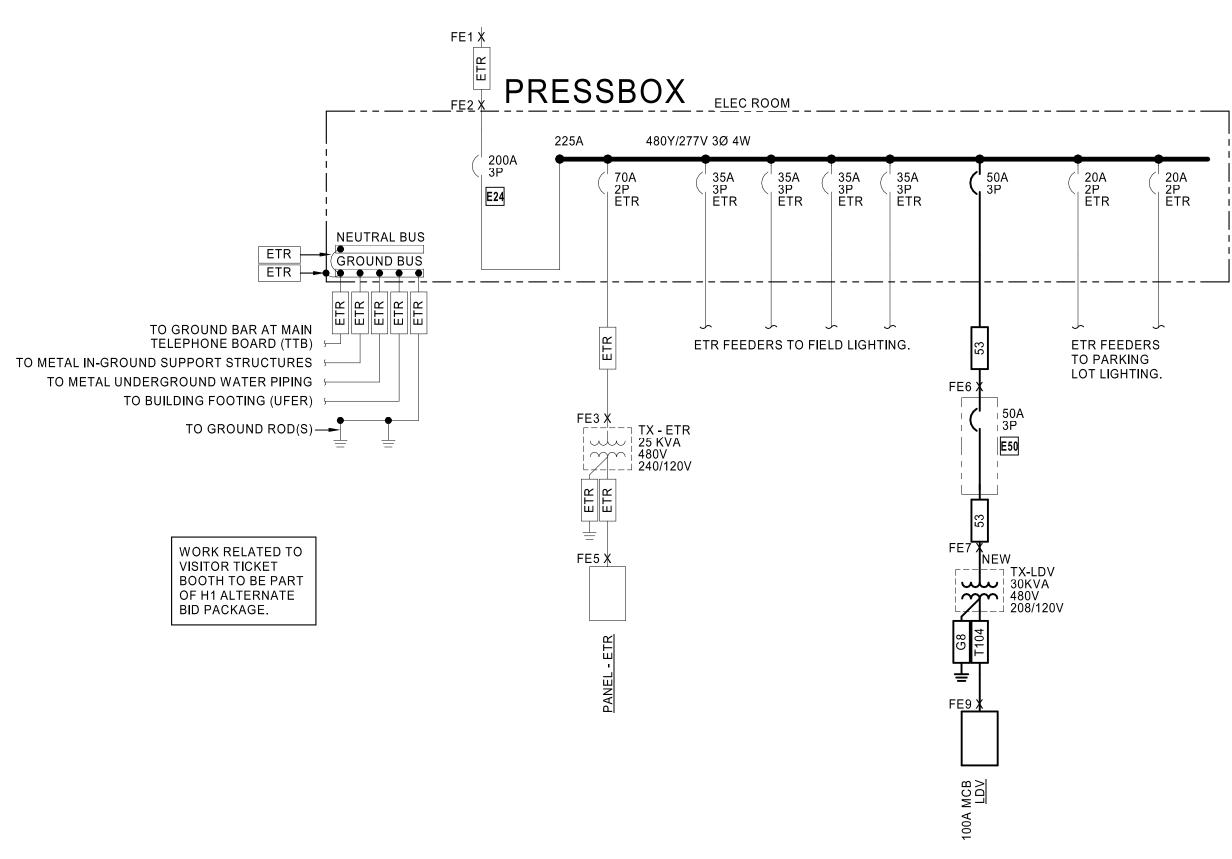
5 |

4











5

2

3

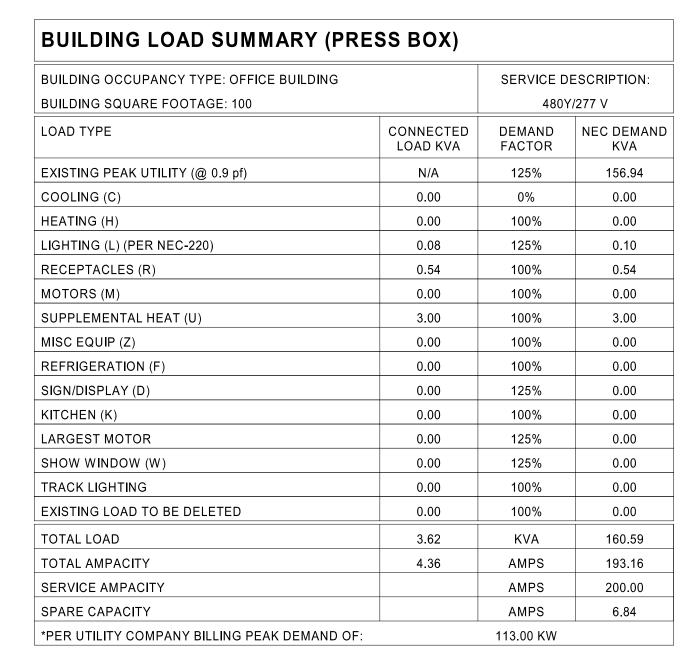
### ONE-LINE DIAGRAM GENERAL NOTES:

4

1. REFER TO ONE-LINE DIAGRAM GENERAL NOTES ON SHEET H-E800.

- 2. REFER TO SHORT-CIRCUIT AND VOLTAGE DROP SCHEDULE ON SHEET H-E800 FOR SHORT CIRCUIT AND VOLTAGE DROP INFORMATION.
- ELECTRICAL PLAN NOTES:
- E24 CONTRACTOR TO METER EXISTING LOADS FOR A MINIMUM OF 30 DAYS OF NORMAL USE PER NEC 220.87. STOP WORK
- AND NOTIFY THE ENGINEER IF THE METERED LOAD EXCEEDS 113 KW.
- E50 PROVIDE GROUNDING AT EQUIPMENT PER DETAIL 1 ON SHEET H-E801.





FEEDER SCHEDULE:

SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNO. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNO. ALL CONDUCTOR SIZES ARE BASED ON

75 DEG C RATED TERMINATIONS, UNO. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR

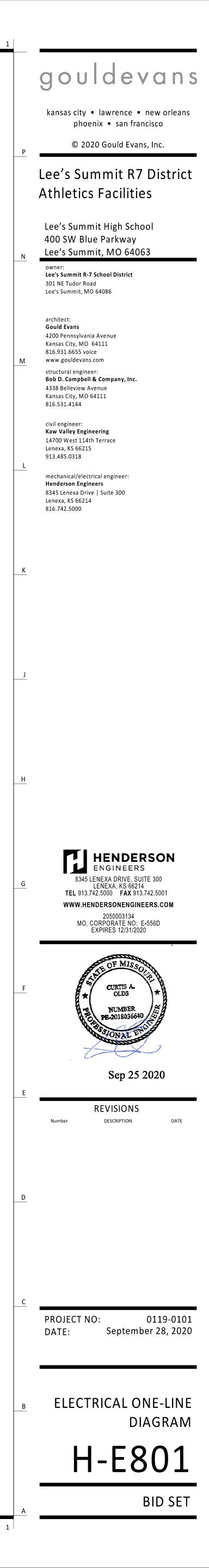
### FEEDER TAG FEEDER DESCRIPTION

ADDITIONAL INFORMATION.

I LEDEN IAG	I LEDER DESCRIPTION
33	(3)#10, (1)#10 G, 1/2" C
53	(3)#8, (1)#10 G, 3/4" C
72	(2)#4, (1)#8 G, 3/4" C
73	(3)#4, (1)#8 G, 1" C
124	(4)#1, (1)#6 G, 1-1/2" C
204	(4)#3/0, (1)#6 G, 2" C
AT104	(4)#1, (1)#6 SSBJ, 1-1/2" C
ETR	ETR
G2	#2 COPPER GROUND, 3/4" C
G4	#4 COPPER GROUND, 3/4" C
G6	#6 COPPER GROUND, 3/4" C
G8	#8 COPPER GROUND, 3/4" C
G20	#2/0 COPPER GROUND, 3/4" C
MV2/0	(3)#2/0 (15kV), (1)#4 (600V), 6" C
MV500	(3)-500kcmil (15kV), (1)#2/0 (600V), 6" C
S404	(2) 2" C, EACH W/ (4)#3/0
T104	(4)#3, (1)#8 SSBJ, 1-1/4" C
T123	(3)#1, (1)#6 SSBJ, 1-1/4" C
T154	(4)#1/0, (1)#6 SSBJ, 1-1/2" C

7 |

4

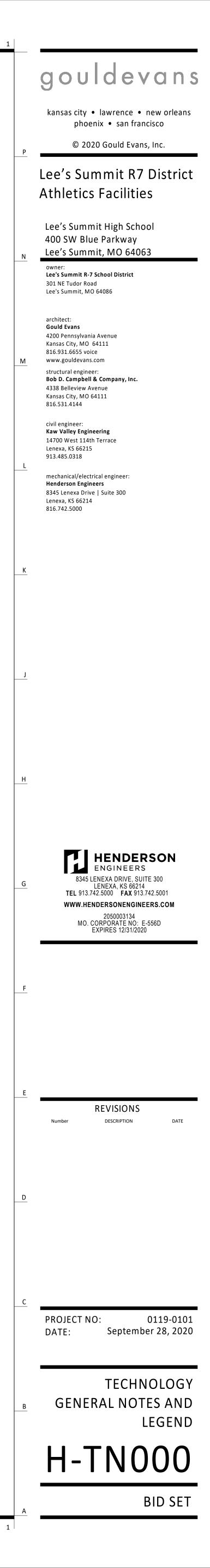


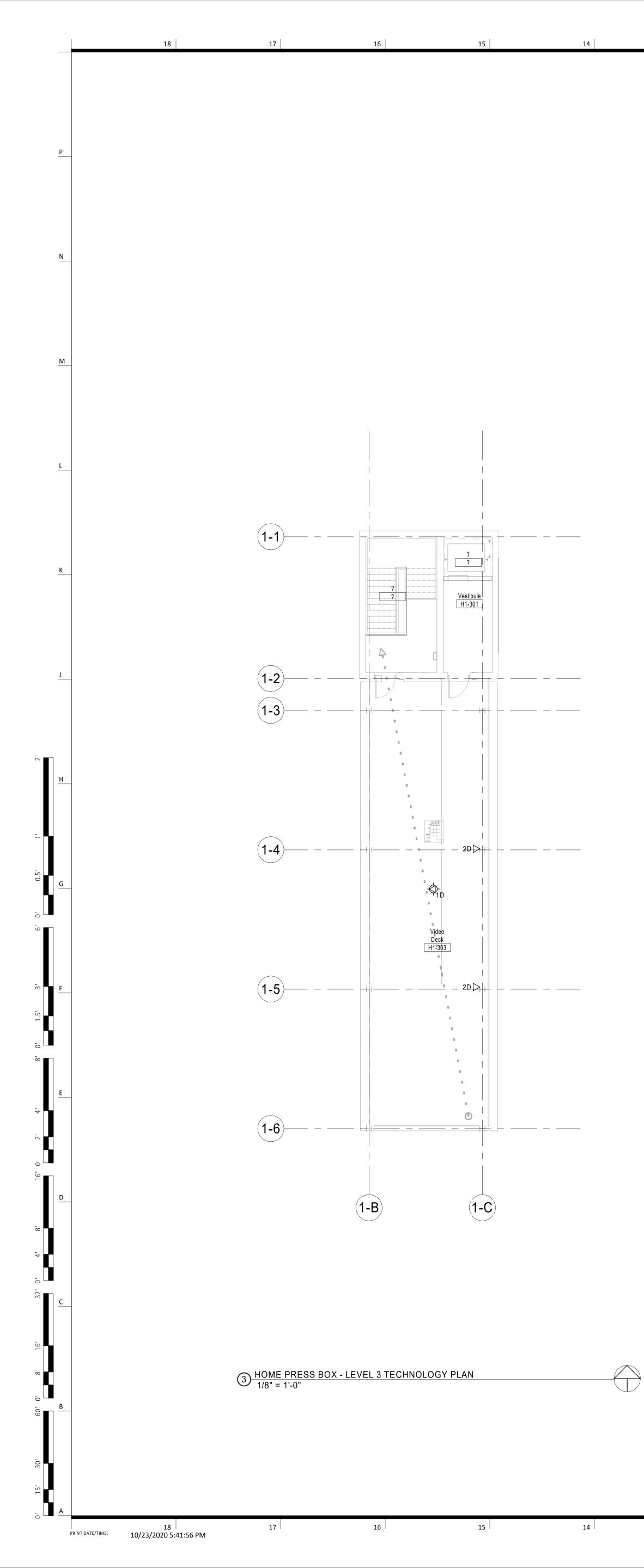


13	12	11	10	9	8	

MBOLS OR ABBRI	EVIATIONS ARE PATHWAYS	USED.	TELECOMMUNICATIONS OUTLETS						GENERAL NEW WORK NOTES
4" CE) 90"	W"xH	WIRE MESH CABLE TRAY (W"=WIDTH, "H"=HEIGHT)							1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WOR
3"(MIN) CE) 108"(MIN) 48"	"	VERTICAL CABLE TRAY	SYMBOLDESCRIPTIONTelevELEVATOR PHONE OUTLET - ANALOG	( )	DETAIL 8/H-TN500				2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS
JACENT DEVICE, UNO TO ARCH DRAWINGS 84"	(#) D"	UNDERGROUND CONDUIT ("#"=QUANTITY, "D"=CONDUIT DIAMETER)	<ul> <li>✓ 1D,TV</li> <li>DATA WALL OUTLET - DISPLAY</li> <li>✓ 2D</li> <li>DATA WALL OUTLET</li> </ul>		4,6/H-TN500 4,6/H-TN500				(DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE ESTABLISHED STRUCTURED CABLING STANDARDS; SHOULD DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLC
84" 48"	(#) D"	CONDUIT ("#"=QUANTITY, "D"=CONDUIT DIAMETER)	✓ 2D     DATA WALL OUTLET       -\$\$\overline{\phi}\$-1D     DATA CEILING OUTLET - WIRELESS ACCESS POINT		4,0/H-TN500				AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR CLARIFICATION
EUNO IN THE TED ARE ABOVE	#	CABLE SUPPORTS OR J-HOOKS CONDUIT SLEEVE	- 1D, PROJ DATA CEILING OUTLET - PROJECTOF		6,4/H-TN500				THROUGH THE RFI PROCESS.  3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS / SLEEVES
G) TO BOTTOM OF MPLIANCE WITH	(#) D"	("#"=QUANTITY, "D"=CONDUIT DIAMETER) UL FIRESTOP SYSTEM ASSEMBLY	TELECOMMUNICATIONS RESPONSIBIL		nish	Insta	all		AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR, AND GENERAL
	PB L"XW"XH"	PULL BOX ("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT)							CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
REA NETWORK COMBUSTIBLE CABLE XCHANGE CARRIER		SPLICE	Description	Construction Team	Owner	Construction Team	Owner	Comments	4. ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BOND TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR CONDUITS
MITTING DIODE F OLITAN AREA		MS FIBER OPTIC CROSS CONNECT - DETAIL 5/H-TN500	_						INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL USED AT THE END CLOSEST TO THE SERVING TR. CONTRACTOR TO
ANTENNA		COPPER UTP CROSS CONNECT	General Communications Grounding and Bonding Hangers and Supports	X X		X			REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMAT AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
G-CONNECT STRIBUTION FRAME CTURER		110-TYPE PROTECTOR BLOCK	Conduits and Backboxes Underground pathways for utility entrance and floor boxes	X		X X X			
CE HOLE		PATCH PANEL - DETAIL 7/H-TN500	Firestops, Conduit Sleeves, and Sleeve Seals Structured Cabling	X		X			WITH THE APPROVED FIRE STOP SYSTEMS (F/S). ALL FIRESTOP SYSTE SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER AND AS
INT OF PRESENCE	TGB	TELECOM GROUND BAR (TGB) - DETAIL 9/H-TN500	Telecom Room Cabinets, Racks, Frames, and Enclosures Telecom Room Buildout (ex. backboard and ladder rack) Optical Fiber Backbone Cable and Connectivity	X X X		X X X			SPECIFIED IN DIVISION 07 07 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
ABLE AL ELECTRICAL CODE AL FIRE PROTECTION	ТМСВ	TELECOM MAIN GROUND BAR (TMGB)	Copper Backbone Cable and Connectivity Copper Horizontal Cable and Connectivity	X X		X X			6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALL SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, A
		TELECOMMUNICATIONS BACKBONE CABLING	Data Communications Router / Firewall Core Switch / Edge Switch		X		X		GC PRIOR TO ORDERING THE PRECAST WALLS. 7. ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE ROUT
LLY RECOGNIZED		(REFER TO RISER DIAGRAM FOR MORE INFORMATION)	Core Switch / Edge Switch Wireless Access Points Servers / Storage and Backup		X X X		X X X		IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDD CONDUITS AND PENETRATIONS OF STRUCTURE SHALL FOLLOW DETA
TIONAL SAFETY AND INISTRATION PLANT		LADDER RACK	Laptops / Desktops / Copiers / Printers / Scanners Software		X		X X X		IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLE EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES SHALL BE ROUTED IN CONDUIT WHEN ABOVE HAR
BRANCH EXCHANGE OVER ETHERNET OPTICAL NETWORK	TMGB	TELECOM MAIN GROUND BAR (TMGB) - WALL ELEVATION VIEW	Voice Communications VoIP Gateway / Analog handsets VoIP handset wall mount kit		X		X		CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONT PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET.
WITCHED		TELECOM GROUND BAR (TGB) - WALL ELEVATION	VolP handset wai mount kit VolP handsets VolP Network licensing		X X X		X X X		CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.      ELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMAT
		VIEW TMGB/TGB - PLAN VIEW							TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALA SYSTEM, ETC.) NO SERVICES SHALL PASS THROUGH THE SPACE UNLE DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL
TIONS N DESIGNER TAL CONDUIT		TELECOM BACKBOARD							FIRE, ETC.)
JRED CABLING	0 0	TWO-POST EQUIPMENT RACK							
ET		TWO-POST EQUIPMENT RACK							
CATIONS MMUNICATIONS ACKBONE		FOUR-POST EQUIPMENT RACK							
ETERMINED JNICATIONS SSOCIATION		EQUIPMENT CABINET (REFER TO PLAN NOTES ON ENLARGED PLANS FOR MORE INFORMATION)							
MMUNICATIONS S BAR MMUNICATIONS MAIN									
S BAR NICATIONS ROOM									
NOTED OTHERWISE ER ES, INC.									
RUPTIBLE POWER									
ED TWISTED PAIR CABLE MANAGER									
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RT OF THE NEW WORK ED IN THE FUTURE.									
ELATIVE TO THE VIEW S IS NOT INTENDED PHASING, WHICH IS RESPONSIBILITIES									
RESPONSIBILITIES. DOCUMENTS ARE DRDER FOR THE SAKE									
PES MAY BE USED ON									

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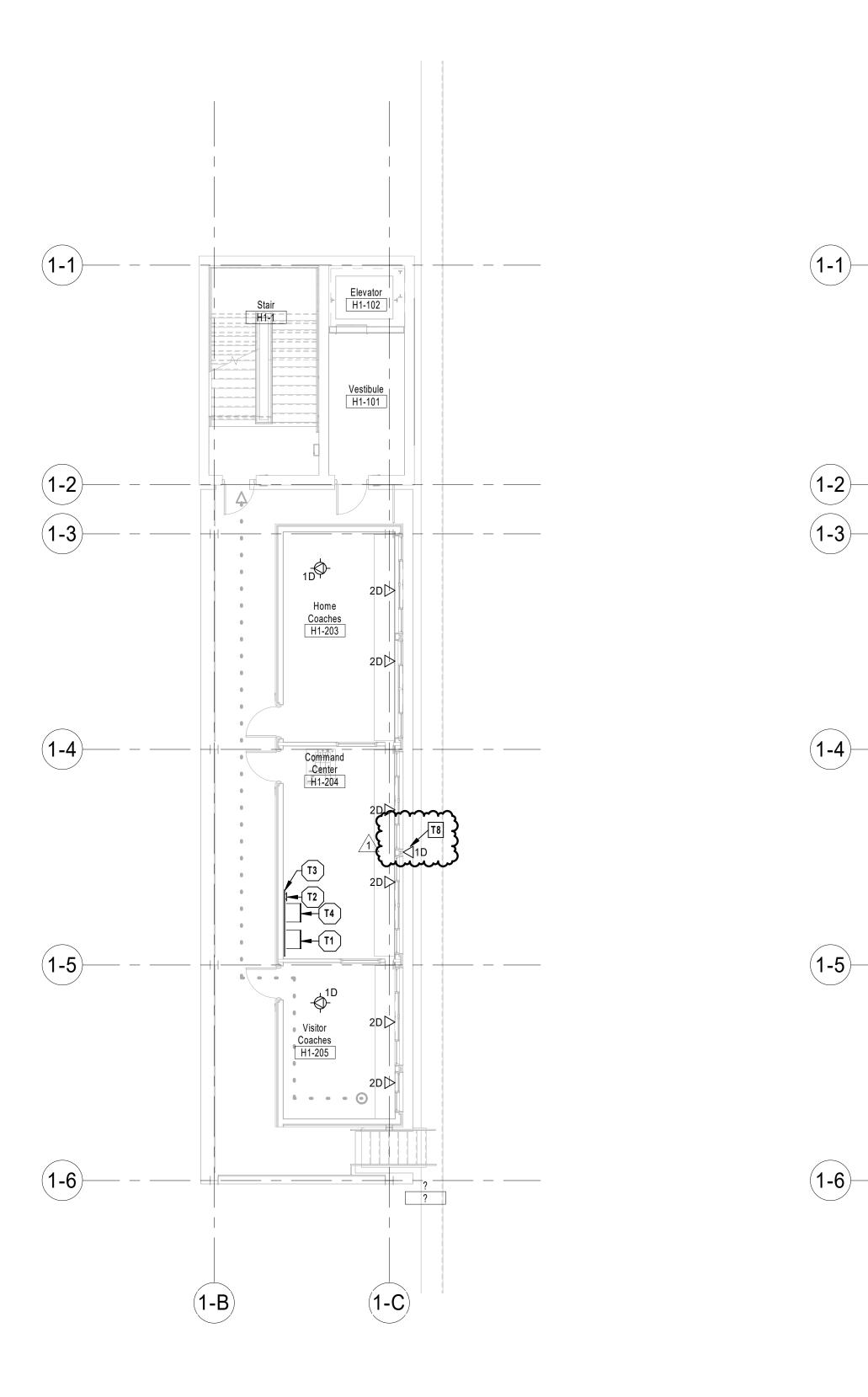
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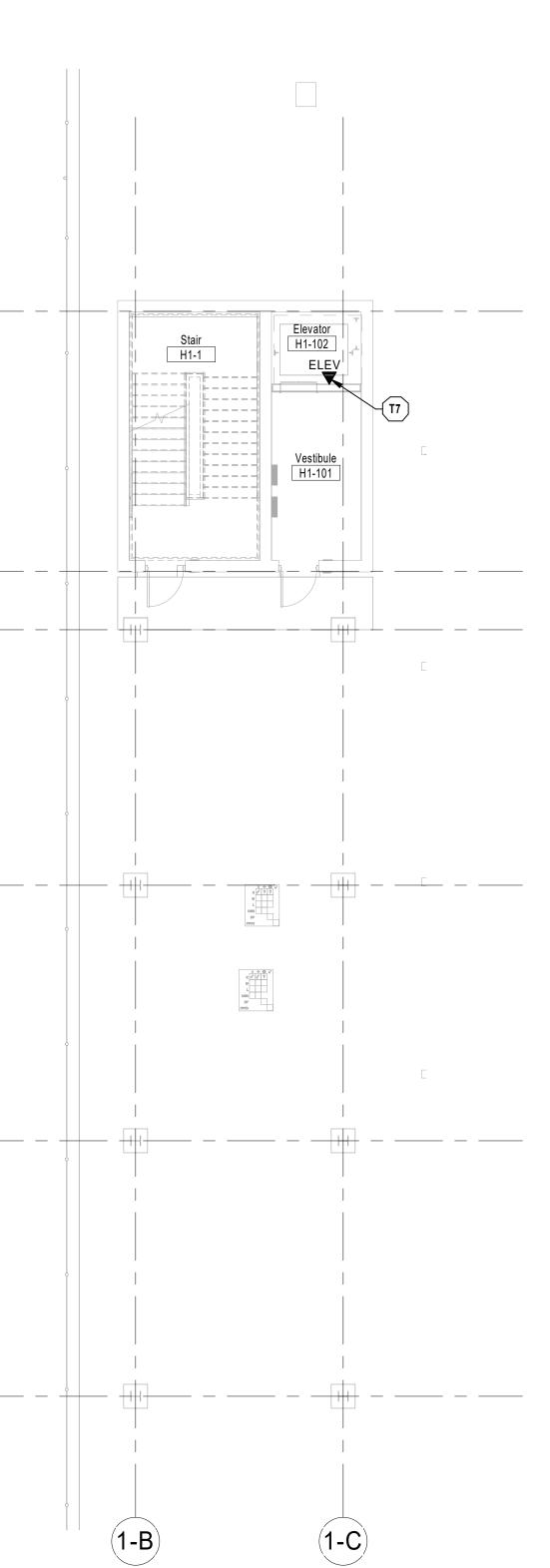


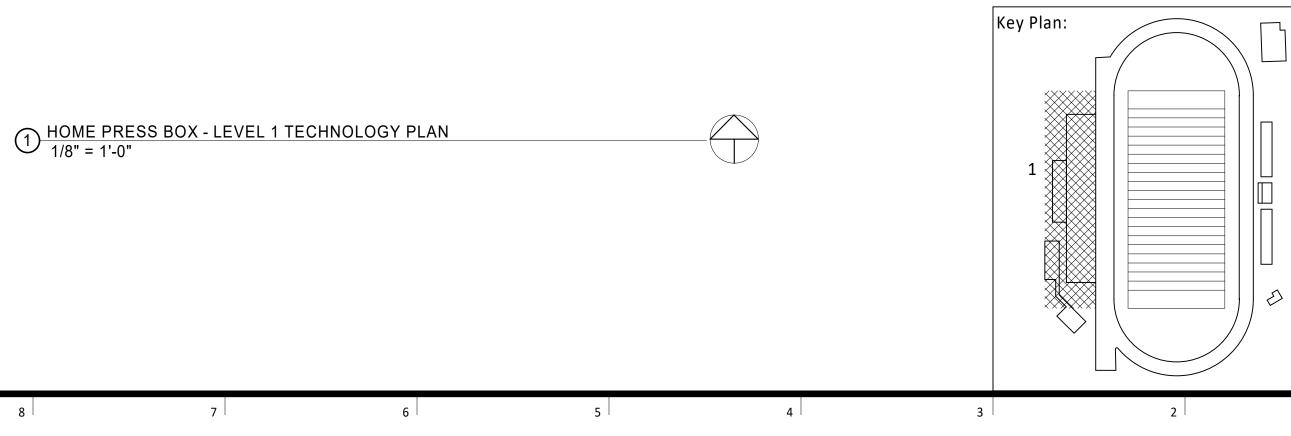
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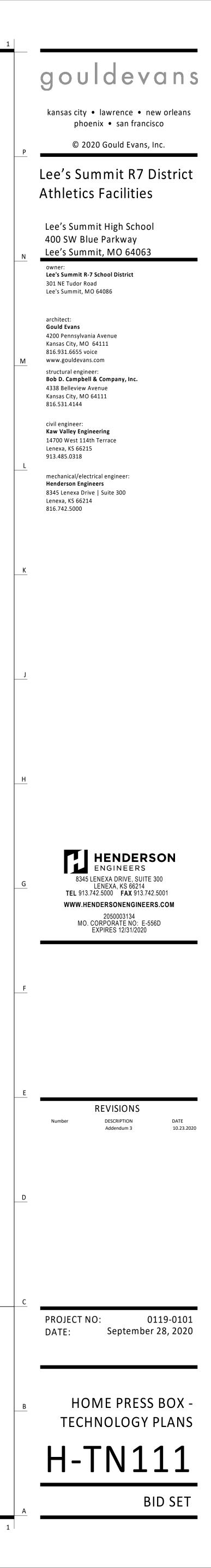
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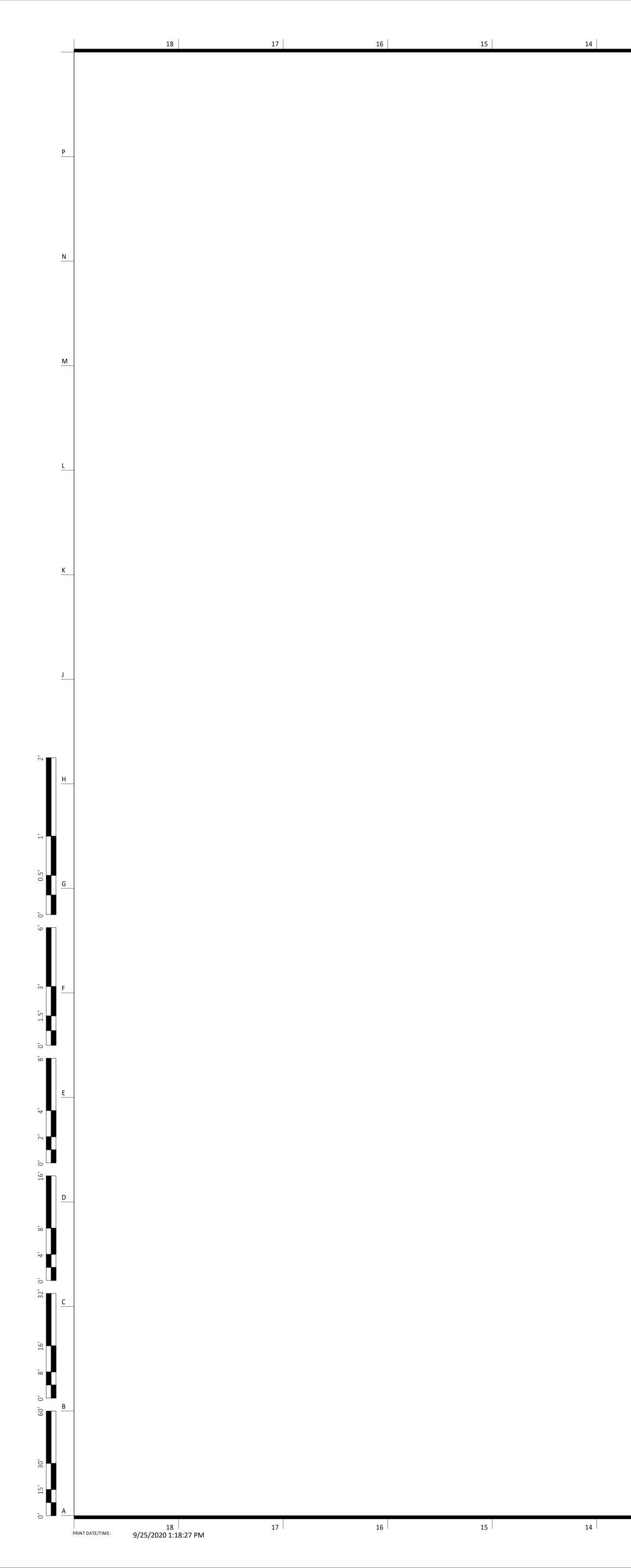
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- **TECHNOLOGY PLAN NOTES:**
- T1 AV RACK TO BE PROVIDED BY OTHERS.
- T2 PROVIDE TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0"AFF. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION. T3 PROVIDE TELECOMMUNICATIONS BACKBOARD. GRADE A/C
- 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) STARTING AT 4" AFF AND EXTEND UPWARDS 8'-0" ON ALL WALLS AS INDICATED ON DRAWINGS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T4 WALL MOUNTED DATA RACK. PROVIDE OPTICAL FIBER PANEL AND PATCH PANELS AS REQUIRED TO SUPPORT DATA OUTLETS PER DIVISION 27 SPECIFICATIONS. INSTALL OWNER FURNISHED EQUIPMENT IN RACK PER MANUFACTURER'S RECOMMENDATIONS.
- T7 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.
- T8 COORDINATE ROUGH-IN LOCATION WITH SECURITY INSTALLER.

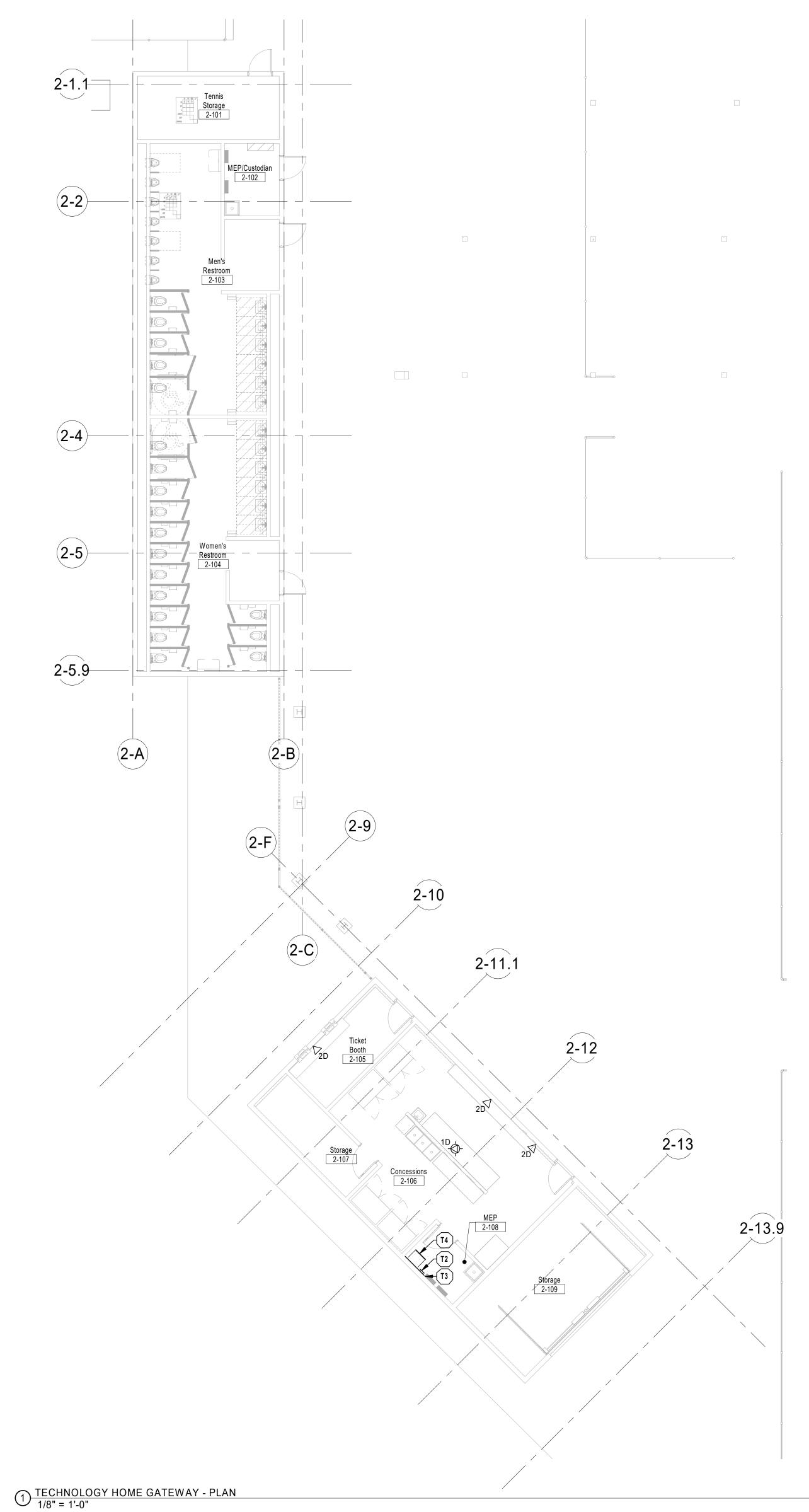










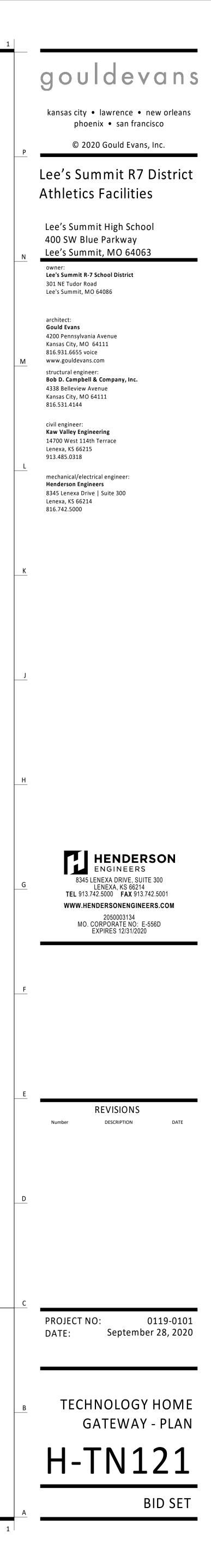


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Key Plan: 





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