Lee's Summit R7 District Athletics Facilities

Lee's Summit West High School 2600 SW Ward Road Lee's Summit, MO 64082 **VOLUME 3 Cover Sheet**

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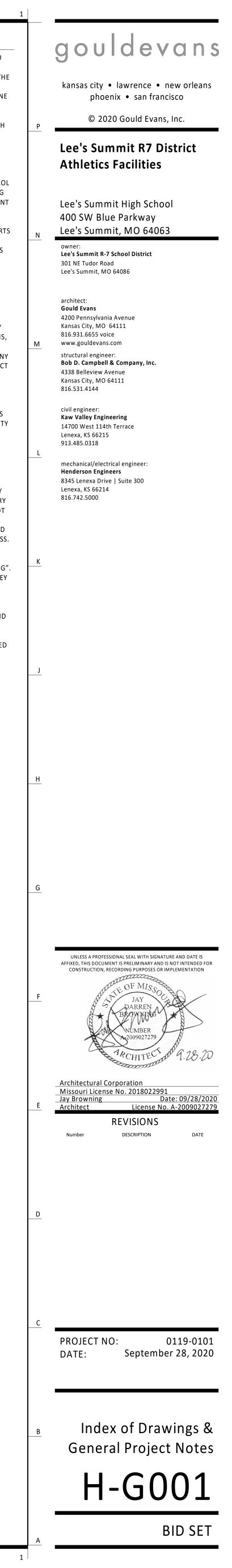
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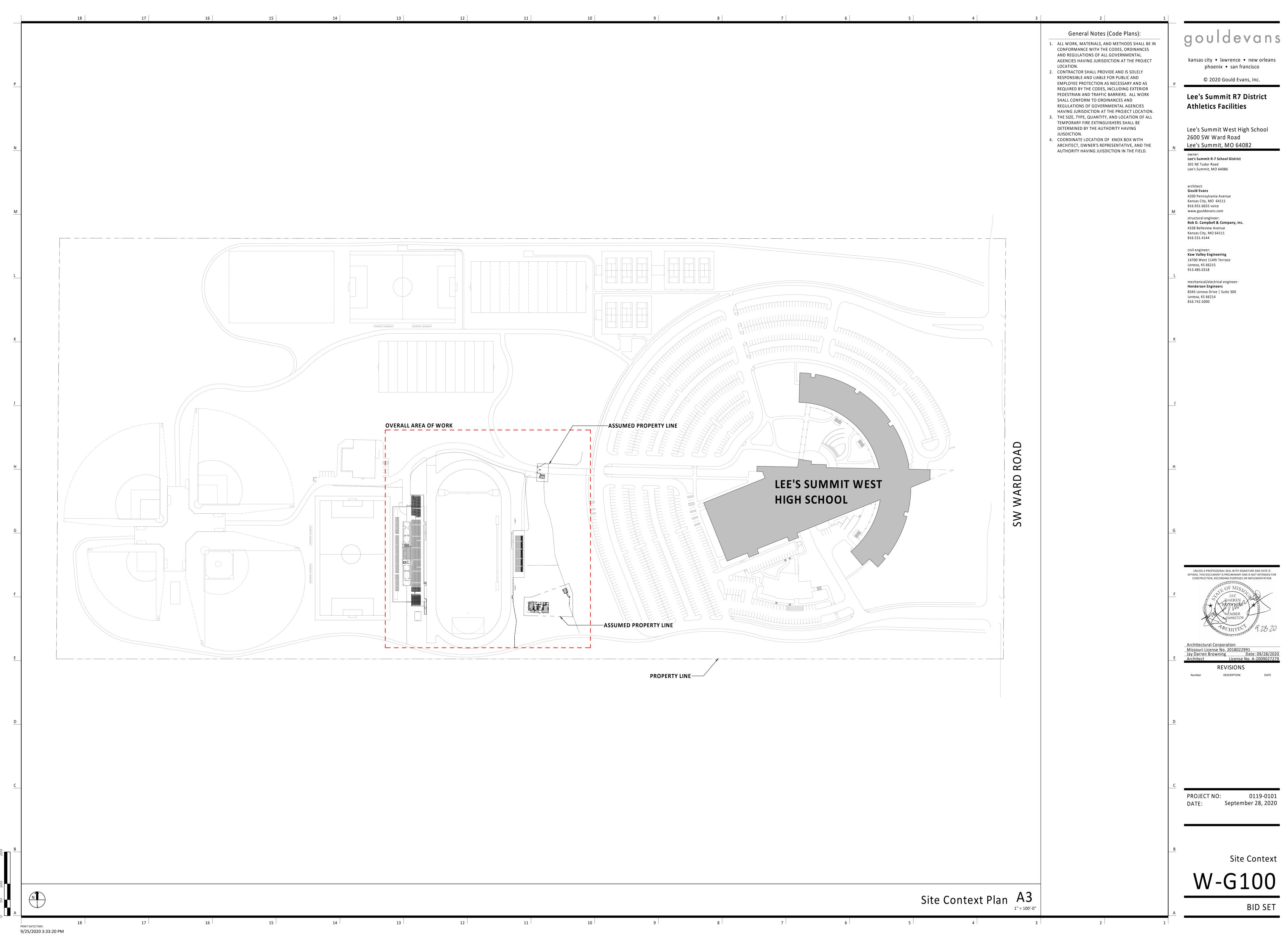
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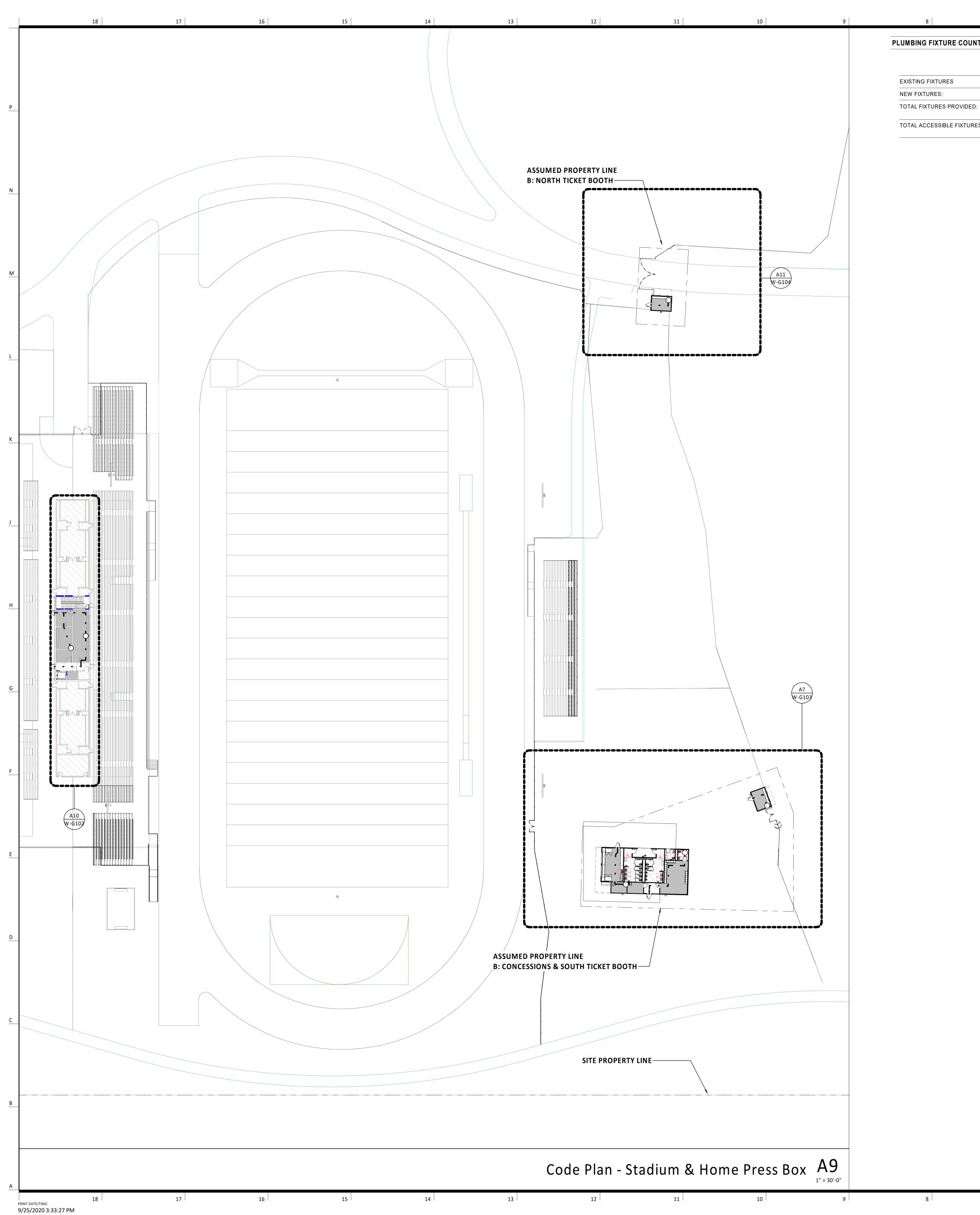
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E121HOME GATEWAY - LIGHTING RCPE122HOME GATEWAY - ELECTRICAL PLANS	10.0 - Technology	W-E600ELECTRICAL SCHEDULESW-E700LIGHTING SCHEDULES
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	SITE LOCATION MAP	 JHE INTERT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPETITION OF THE VORK BY THE CONTRACTOR. THE CONTRACT DOCUMENTS ARE EXECUTION AND COMPETITION OF THE VORK BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED DOLY TO THE EXTENT CONSISTENT WITH THE CONTRACT DO THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND BATCLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR SO IN DESULTS. ORGANIZATION OF THE SPECIFICATIONS INTO DIVISIONS, SECTIONS AND BATCLES, AND ARRANGEMENT OF DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVISIONS THE VIGHT OF WORK TO BE PREPROMED BY ANY TRADE. DRAWINGS, SPECIFICATIONS, GENESSENTALE PARTS OF THE CONTRACT. IN THE FUELT OF ANY DISCREPARCY SETWEEN BATW TRADE. DRAWINGS, SPECIFICATIONS, GENESSENTALE PARTS OF THE CONTRACT. IN THE CASE OF ANY DISCREPARCY SETWEEN BATW TRADE. DRAWINGS, SPECIFICATIONS, AND FIGURES WRITTEN THERE SO ADRAWING AND FIGURES SCALE DIMENSIONS. IN THE CASE OF ANY DISCREPARCY SETWEEN AND FIGURES OF ANY DISCREPARCY SETWEEN THE DRAWINGS AND FIGURES CONDITIONS SHALL SCALE DETAILS. THE LARGER SCALE DIMENSIONS. IN THE CASE OF ANY DISCREPARCY SETWEEN DEAVINGS AND FIGURES ON ONTRACTORS SHALL ADVISE THE ARCHITECT OF ANY DISCREPARCY SETWEEN THE DRAWINGS AND FIGURES CONDITIONS SHALL SCALE DETAILS. THE LARGER SCALE DETAILS ARE TO GOVERN. SUPPLEMENTARY CONTRACTORS SHALL ADVISE THE ARCHITECT OF ANY DISCREPARCY SETWEEN DRAWINGS AND FIGURES AND THE ONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPARCH STALL ADVISE THE ARCHITECT OF ANY DISCREPARCH STALL ADVISE THE ARCHITECT OF ANY DISCREPARCH AND STRUCTOR. THE DATE TO SUPPLEMENT AND THE ADDVISE THE ARCHITECT OF ANY DISCREPARCH AND STRUCTORY. THE AR







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	5	2	5	3	2	2	2	
	10 ^{WC} 9 ^{URINALS}	10	29	11	3	3	4	
S:	3 WC 4 URINALS	3	3	3	3	3	2	

3 Description

RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX; CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS; AND CONSTRUCTION OF NEW BLEACHER SEATING.

Applicable Codes

- 2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code
- 2017 National Electric Code 2018 International Mechanical Code
- 2018 International Plumbing Code 2018 International Enery Conservation Code

2009 Accessible and Usable Buildings and Facilities

Building complies with all applicable codes.

Occupancy Classifications

THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES; EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS: A-5: OUTDOOR STADIUM & PRESS BOX (SECTION 303) B: CONCESSIONS & SOUTH TICKET BOOTH (SECTION 304) B: NORTH TICKET BOOTH (SECTION 304)

Type of Construction TYPE II-B (SECTION 602) Allowable Height NON SPRINKLED SPRINKLED HEIGHT | STORIES HEIGHT | STORIES A-5: 55' UL B: 55' 3 75' UL 75' 4 (TABLE 504.3) (TABLE 504.4)

Building Height PRESS BOX + ADDITION: 3 STORIES - APX 47' CONCESSIONS/LOCKER ROOM: 1 STORY - APX 15'

NORTH TICKET BOOTH: 1 STORY - APX 13' SOUTH TICKET BOOTH: 1 STORY - APX 13'

	Allowable Area				
NON	SPRINKLED (NS)	SPRINKLED (S1)	SPRINKLED (SM)		
A-5: B:	UL 23,000 SF	UL 92,000 SF	UL 69,000 SF		

Building Area

(TABLE 506.2)

PRESS BOX: EXISTING BUILDING AREA: 6,000 SF NEW CONSTRUCTION BUILDING AREA: 1,500 SF TOTAL BUILDING AREA: 7,500 SF

CONCESSIONS/LOCKER BUILDING AREA: 1,785 SF NORTH TICKET BOOTH BUILDING AREA: 140 SF SOUTH TICKET BOOTH BUILDING AREA: 140 SF

Passive Fire Requirements

EXTERIOR BEARING WALLS: 0 HR	(TABLE 601)
INTERIOR BEARING WALLS: 0 HR	(17.222.001)
	(TABLE 601)
EXTERIOR NON-BEARING WALLS: 0 HR	
(>30' FROM C.L. OF PROPERT	Y LINE, TABLE 602)
OPENING PROTECTION AT EXT. WALL: 0	HR
(>30' FROM C.L. OF PROPERTY	LINE, TABLE 705.8)
STRUCTURAL FRAME: 0 HR	
	(TABLE 601)
ROOF SUPPORTS: 0 HR	
	(TABLE 601)
NON-BEARING WALLS & INTERIOR PARTI	TIONS: 0 HR
	(TABLE 601)
CORRIDORS: 0 HR	
	(TABLE 1020.1)
FLOOR CONSTRUCTION: 0 HR	
	(TABLE 601)

Active Fire Resistance Requirements

AUTOMATIC SPRINKLER SYSTEM: (SECTION 903) NOT REQUIRED STANDPIPES: NOT REQUIRED (SECTION 905) FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT

(SECTION 907.2.1) LOAD SMOKE DETECTION: NOT REQUIRED

EXIT SIGNS: REQUIRED

NOT REQUIRED IN ROOMS THAT REQUIRE (SECTION 1013) ONLY ONE EXIT.

EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE (SECTION 1008.2.1)

PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 906.1)

Means of Egress

COMMON PATH OF EGRESS TRAVEL:

COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON-SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 (IBC SECTION 1006.2.1) DEAD END CORRIDORS:

DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IEBC SECTION 805.6)

TRAVEL DISTANCE:

THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2) DOOR SWING:

DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)

AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. 3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JUISDICTION. 4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE AUTHORITY HAVING JUISDICTION IN THE FIELD. Code Plan Legend: Egress Path of Travel Common Path of Travel, RE Schedule ——— - Length *∗ ∗* Travel Distance to Exit, RE Schedule – Length EXIT Egress Point Required # of Occupants Stair Egress Exit Stair Required # of Occupants-Occupancy Tag Room name Occupancy Group B: 200 SF = 2P Area — Occupant Load — Fire Extinguisher Radius 75' Typ 1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly - - - - - - - - -Smoke Barrier _____ Smoke Partition

General Notes (Code Plans):

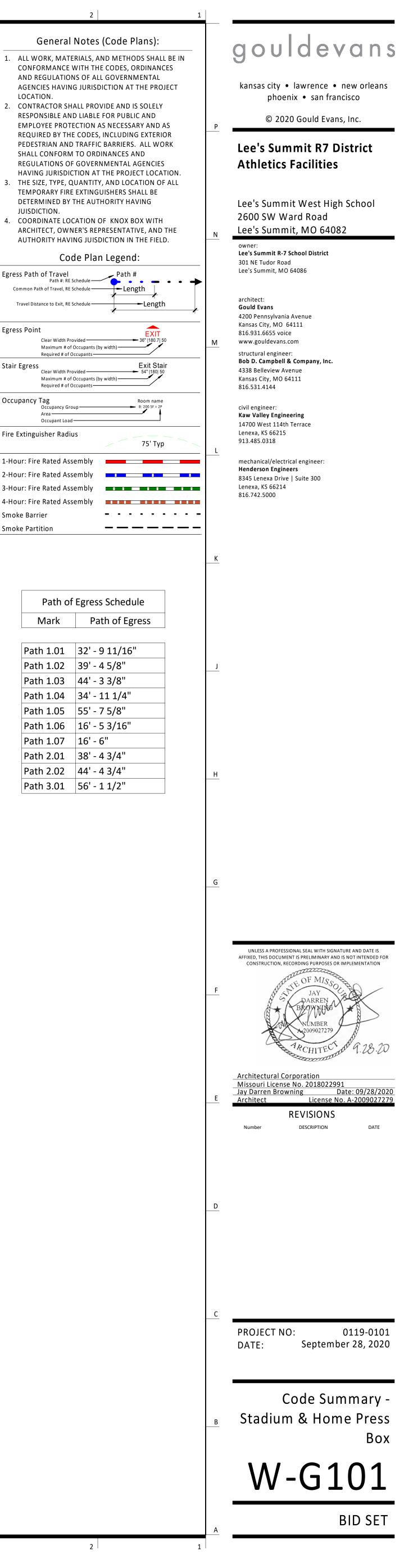
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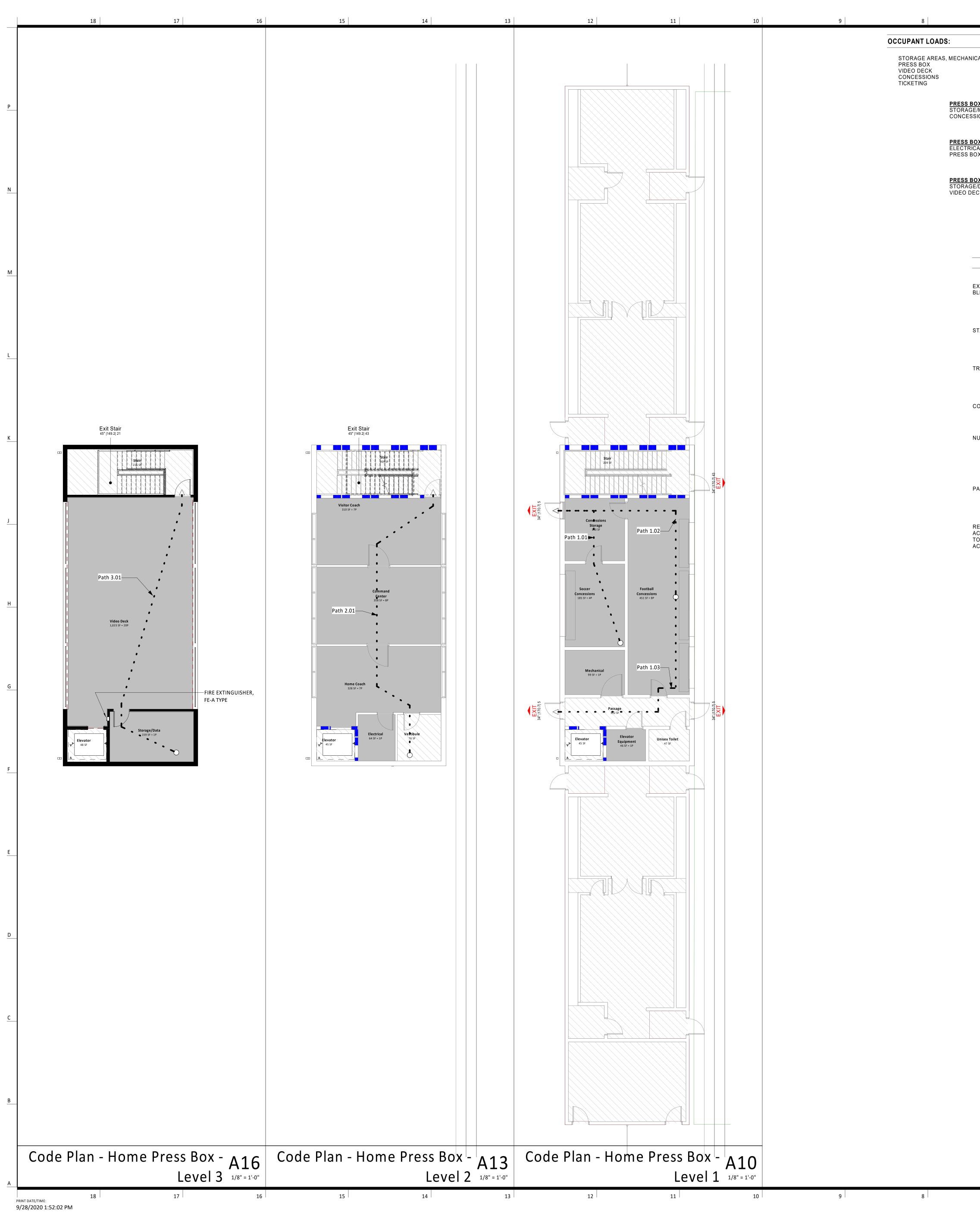
Path of Egress Schedule			
Mark	Path of Egress		
Path 1.01	32' - 9 11/16"		
Path 1.02	39' - 4 5/8"		
Path 1.03	44' - 3 3/8"		
Path 1.04	34' - 11 1/4"		
Path 1.05	55' - 7 5/8"		
Path 1.06	16' - 5 3/16"		
Path 1.07	16' - 6"		
Path 2.01	38' - 4 3/4"		
Path 2.02	44' - 4 3/4"		
Path 3.01	56' - 1 1/2"		

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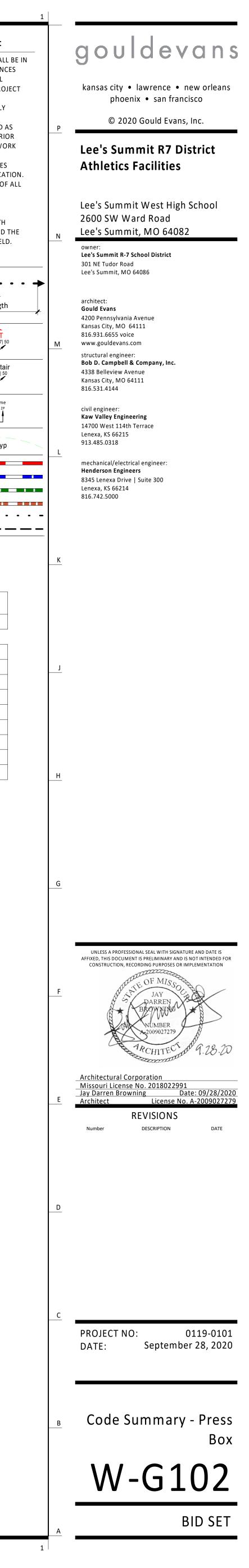


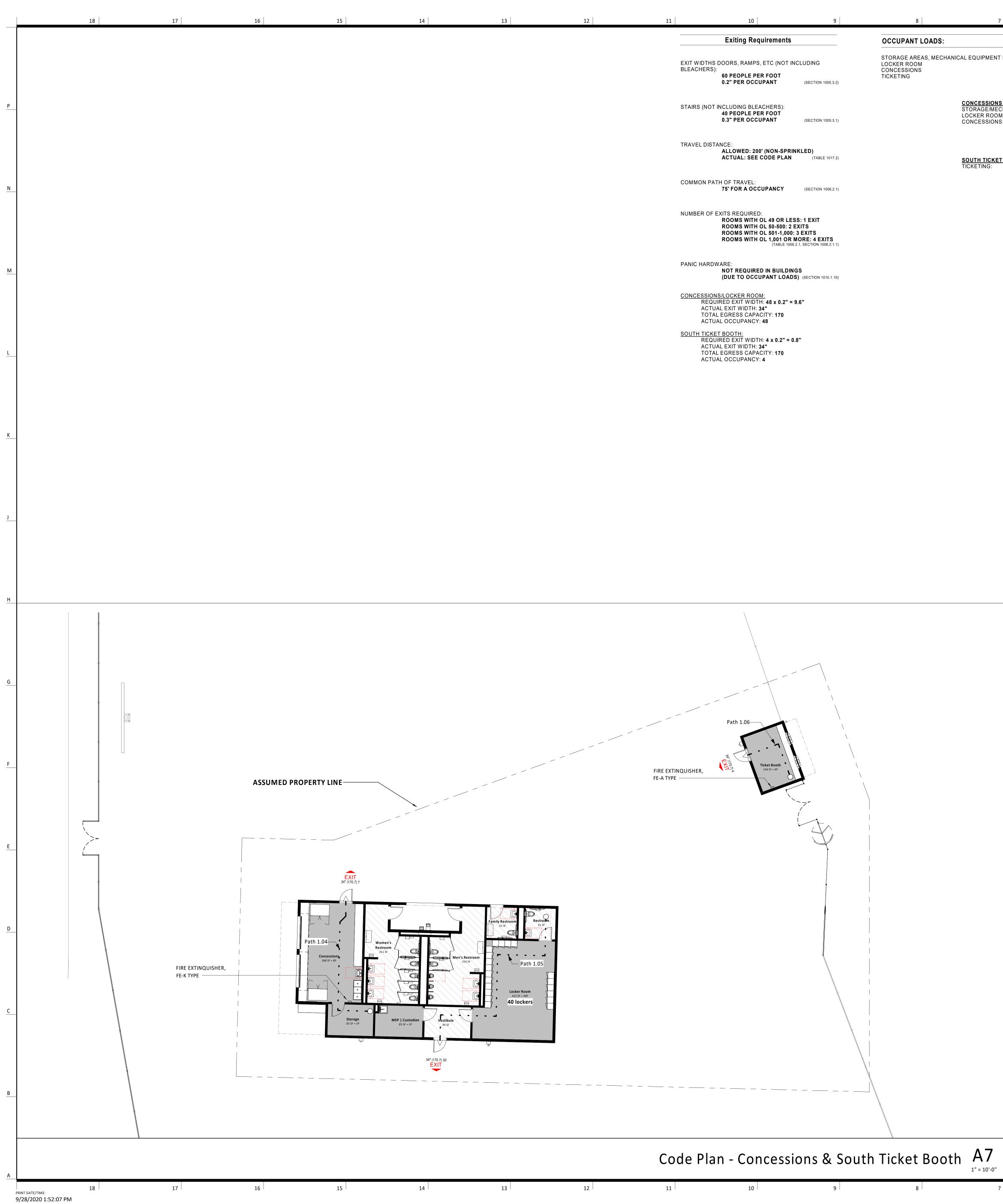


7	6	5	5	4	3	2
	(BASED ON 2	2018 IBC TABLE 1004.5)		Description	General	Notes (Code Plans):
HANICAL/ELECTRI	CAL EQUIPMENT ROOM	300 GROSS 50 GROSS 50 GROSS 60 GROSS 60 GROSS	FACILITIES WHICH EXISTING PRESS BO RESTROOMS, CON	XISTING OUTDOOR STADIUM WILL INCLUDE EXPANSION OF OX; CONSTRUCTION OF NEW CESSIONS, AND TICKET BOOTHS; ON OF NEW BLEACHER SEATING.	CONFORMANCE AND REGULATIO AGENCIES HAVIN LOCATION.	ERIALS, AND METHODS SHALL BE WITH THE CODES, ORDINANCES NS OF ALL GOVERNMENTAL IG JURISDICTION AT THE PROJECT
SS BOX - LEVEL 1 RAGE/MECH. (2): ICESSIONS (2):		CUPANTS CUPANTS NTS	A 2018 International Bu 2018 International Ex 2018 International Fir	isting Building Code	RESPONSIBLE AN EMPLOYEE PROT REQUIRED BY TH PEDESTRIAN ANI	ALL PROVIDE AND IS SOLELY ID LIABLE FOR PUBLIC AND ECTION AS NECESSARY AND AS E CODES, INCLUDING EXTERIOR D TRAFFIC BARRIERS. ALL WORK I TO ORDINANCES AND
<u>SS BOX - LEVEL 2</u> CTRICAL: SS BOX (3):	64 SF 1 OCC	CUPANT CUPANTS	2009 Accessible and	echanical Code Imbing Code ery Conservation Code Usable Buildings and Facilities	HAVING JURISDI 3. THE SIZE, TYPE, C TEMPORARY FIR DETERMINED BY	F GOVERNMENTAL AGENCIES CTION AT THE PROJECT LOCATION QUANTITY, AND LOCATION OF ALL E EXTINGUISHERS SHALL BE THE AUTHORITY HAVING
<u>SS BOX - LEVEL 3</u> RAGE/DATA: O DECK:		CUPANT CUPANTS NTS	Occup	n all applicable codes. Dancy Classifications SINGLE USE OCCUPANCY IN OVATED AREAS:	ARCHITECT, OWI AUTHORITY HAV	CATION OF KNOX BOX WITH NER'S REPRESENTATIVE, AND THE ING JUISDICTION IN THE FIELD. de Plan Legend:
	TOTAL: 58	OCCUPANTS	A-5 ASSEMBLY	e of Construction	Egress Path of Travel Path #: RE Common Path of Travel, RE Travel Distance to Exit, RE	Schedule Length
	Exiting Requirements		TYPE II-B		Egress Point	rovided
	DOORS, RAMPS, ETC (NOT IN	CLUDING	A	Ilowable Height		f Occupants (by width)
BLEACHERS):	60 PEOPLE PER FOOT 0.2" PER OCCUPANT	(SECTION 1005.3.2)	A-5: 55'	UL	Clear Width Pr	rovided 54" 180 50 f Occupants (by width) Occupants Room name
STAIRS (NOT	INCLUDING BLEACHERS): 40 PEOPLE PER FOOT 0.3" PER OCCUPANT	(SECTION 1005.3.1)	PRESS BOX + ADDI	Building Height TION: 3 STORIES - APX 47'	Fire Extinguisher Radi	us 75' Typ
TRAVEL DIST	ANCE: Allowed: 200' (Non-Sprin Actual: See Code Plan	IKLED) (TABLE 1017.2)	NON SPRINKLED (NS)	Allowable Area	2-Hour: Fire Rated As 3-Hour: Fire Rated As	sembly
COMMON PAT	TH OF TRAVEL: 75' FOR A OCCUPANCY	(SECTION 1006.2.1)	A-5: UL	UL Building Area	4-Hour: Fire Rated As Smoke Barrier Smoke Partition	
NUMBER OF E	EXITS REQUIRED: ROOMS WITH OL 49 OR LES ROOMS WITH OL 50-500: 2 E ROOMS WITH OL 501-1,000:	XITS		NG AREA: 6,000 SF CTION BUILDING AREA: 1,500 SF GAREA: 7,500 SF		
	ROOMS WITH OL 1,001 OR N		Passiv	ve Fire Requirements	Path o	f Egress Schedule
PANIC HARDV	VARE: Not required in Building	GS	EXTERIOR BEARING		Mark	Path of Egress
	(DUE TO OCCUPANT LOADS	(SECTION 1010.1.10)	INTERIOR BEARING	ARING WALLS: 0 hr	Path 1.01	32' - 9 11/16"
REQUIRED EX	(IT WIDTH: 58 x 0.2" = 11.6" WIDTH: 136"			(>30' FROM C.L. OF PROPERTY LINE, TABLE 602) TION AT EXT. WALL: 0 HR (>30' FROM C.L. OF PROPERTY LINE, TABLE 705.8)	Path 1.02 Path 1.03	39' - 4 5/8" 44' - 3 3/8"
TOTAL EGRES	SS CAPACITY: 680 JPANCY: 58		STRUCTURAL FRAM ROOF SUPPORTS: (Path 1.04 Path 1.05	34' - 11 1/4" 55' - 7 5/8"
				LS & INTERIOR PARTITIONS: 0 HR	Path 1.06	16' - 5 3/16"
			CORRIDORS: 0 HR FLOOR CONSTRUC	TION: 0 HR	Path 1.07 Path 2.01 Path 3.01	16' - 6" 59' - 8 1/2" 58' - 3 1/8"
				Resistance Requirements		
			AUTOMATIC SPRINI NOT REQUIRED			
			STANDPIPES: NOT FIRE ALARM SYSTE	M: NOT REQ'D. DUE TO OCCUPANT		
			SMOKE DETECTION	LOAD (SECTION 907.2.1) I: NOT REQUIRED		
				EQUIRED IN ROOMS THAT REQUIRE DNE EXIT. (SECTION 1013)		
			EMERGENCY LIGHT	TING: MINIMUM OF 1 FOOTCANDLE A The Walking Surface	т	
			PORTABLE FIRE EX	(SECTION 1008.2.1) TINGUISHERS: REQUIRED (SECTION 906.1)		
			N	leans of Egress		
				F EGRESS TRAVEL : PATH OF EGRESS TRAVEL SHOULD		
			SPRINKLED BUILE MAXIMUM OCCUP EXITS OR EXIT AC SPACE SHALL BE OCCUPANT LOAD TRAVEL DISTANC	EET FOR USE GROUP A IN NON- DINGS (IBC TABLE 1006.2.1). THE ANT LOAD OF SPACE IS 49. TWO CESS DOORWAYS FROM ANY PROVIDED WHERE THE DESIGN OR COMMON PATH OF EGRESS E EXCEEDS THE VALUES LISTED IN BC SECTION 1006.2.1)		
			20 FEET IN LENGT	IDORS: D CORRIDORS SHOULD NOT EXCEED TH FOR USE GROUP A (IBC SECTION D CORRIDORS IN AN EXISTING		
			CONDÍTION SHOU 805.6) TRAVEL DISTANC	ILD NOT EXCEED 35' (IEBC SECTION		
			SHOULD NOT EXC OCCUPANCIES (IE DOOR SWING:			
			DIRECTION OF TR	ING IS REQUIRED TO SWING IN THE AVEL WHEN THE OCCUPANT LOAD (IBC SECTION 1010.1.2.1)		
					1	

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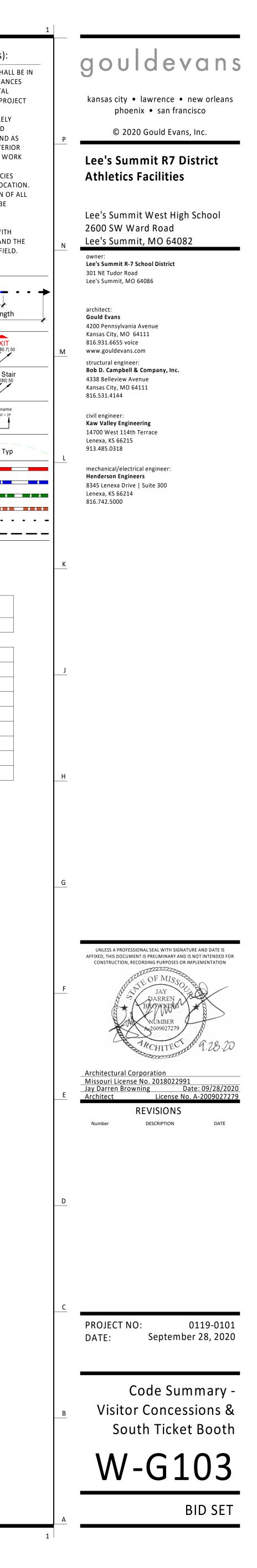


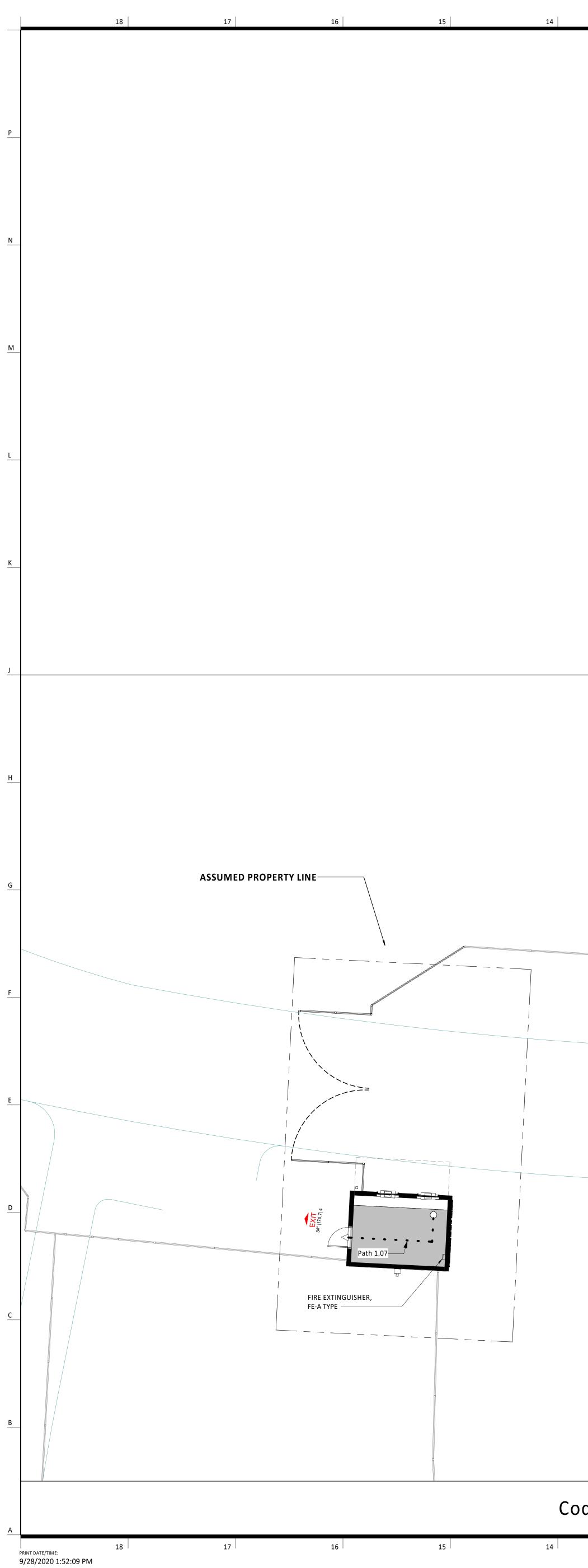
13	12	11	10	9	8	7
			Exiting Requirements		OCCUPANT LOADS:	
		EXIT WI BLEACH	DTHS DOORS, RAMPS, ETC (NOT INCL IERS): 60 PEOPLE PER FOOT 0.2" PER OCCUPANT	UDING (SECTION 1005.3.2)	STORAGE AREAS, MECHA LOCKER ROOM CONCESSIONS TICKETING	NICAL EQUIPMENT ROOM
		STAIRS	(NOT INCLUDING BLEACHERS): 40 PEOPLE PER FOOT 0.3" PER OCCUPANT	(SECTION 1005.3.1)		CONCESSIONS & LOCKER STORAGE/MECH (2): LOCKER ROOM: CONCESSIONS:
		TRAVEL	DISTANCE: Allowed: 200' (Non-Sprink) Actual: See Code Plan	LED) (TABLE 1017.2)		<u>SOUTH TICKET BOOTH</u> TICKETING:
		СОММС	ON PATH OF TRAVEL: 75' FOR A OCCUPANCY	(SECTION 1006.2.1)		
		NUMBE	R OF EXITS REQUIRED: ROOMS WITH OL 49 OR LESS: ROOMS WITH OL 50-500: 2 EXI ROOMS WITH OL 501-1,000: 3 ROOMS WITH OL 1,001 OR MO (TABLE 1006.2.1,	ITS EXITS		
		PANIC F	HARDWARE: Not required in Buildings (Due to occupant loads)			
			<u>SSIONS/LOCKER ROOM:</u> REQUIRED EXIT WIDTH: 48 x 0.2" = 9.6 ACTUAL EXIT WIDTH: 34" TOTAL EGRESS CAPACITY: 170 ACTUAL OCCUPANCY: 48	3"		
			<u>TICKET BOOTH:</u> REQUIRED EXIT WIDTH: 4 x 0.2" = 0.8" ACTUAL EXIT WIDTH: 34" TOTAL EGRESS CAPACITY: 170 ACTUAL OCCUPANCY: 4			

7	6	5 4 3	2
IICAL EQUIPMENT ROOM	(BASED ON 2018 IBC TABLE 1004.5) 300 GROSS 1 PER LOCKER	Description RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF	General Notes (Code Plans): 1. ALL WORK, MATERIALS, AND METHODS SHALL CONFORMANCE WITH THE CODES, ORDINANCE AND REGULATIONS OF ALL GOVERNMENTAL
CONCESSIONS & LOCKER		EXISTING PRESS BOX; CONSTRUCTION OF NEW RESTROOMS, CONCESSIONS, AND TICKET BOOTHS; AND CONSTRUCTION OF NEW BLEACHER SEATING.	AGENCIES HAVING JURISDICTION AT THE PROJI LOCATION. 2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS
STORAGE/MECH (2): LOCKER ROOM: CONCESSIONS:	169 SF2 OCCUPANTS434 SF40 OCCUPANTS360 SF6 OCCUPANTSTOTAL: 48 OCCUPANTS	Applicable Codes 2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code 2017 National Electric Code	REQUIRED BY THE CODES, INCLUDING EXTERIO PEDESTRIAN AND TRAFFIC BARRIERS. ALL WOF SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCAT 3. THE SIZE, TYPE, QUANTITY, AND LOCATION OF
<u>SOUTH TICKET BOOTH</u> TICKETING:	140 SF 3 OCCUPANTS TOTAL: 3 OCCUPANTS	2018 International Mechanical Code 2018 International Plumbing Code 2018 International Enery Conservation Code 2009 Accessible and Usable Buildings and Facilities Building complies with all applicable codes.	TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JUISDICTION. 4. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND T
		Occupancy Classifications THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES; EACH WITH A SINGLE USE	AUTHORITY HAVING JUISDICTION IN THE FIELD Code Plan Legend: Egress Path of Travel Path #: RE Schedule Common Path of Travel, RE Schedule
		OCCUPANCY IN EXISTING AND RENOVATED AREAS: B: CONCESSIONS & SOUTH TICKET BOOTH	Travel Distance to Exit, RE Schedule - Length Egress Point Clear Width Provided - 36" [180.7] 50
		Type of Construction	Maximum # of Occupants (by width) Required # of Occupants Stair Egress Clear Width Provided Maximum # of Occupants (by width) Required # of Occupants Occupants
		Allowable Height	Occupancy Tag Room name Occupancy Group B: 200 SF = 2P Area
		NON SPRINKLEDSPRINKLEDHEIGHTSTORIESHEIGHTB:55'375'	Occupant Load Fire Extinguisher Radius 75' Typ
		Building Height CONCESSIONS/LOCKER ROOM: 1 STORY - APX 15' SOUTH TICKET BOOTH: 1 STORY - APX 13'	1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly 3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier
		Allowable Area	Smoke Partition — — — — —
		NON SPRINKLED (NS)SPRINKLED (S1)B:23,000 SF92,000 SF	
		Building Area CONCESSIONS/LOCKER BUILDING AREA: 1,785 SF	Path of Egress Schedule Mark Path of Egress
		SOUTH TICKET BOOTH BUILDING AREA: 140 SF	Path 1.01 32' - 9 11/16" Path 1.02 39' - 4 5/8"
		Passive Fire Requirements	Path 1.02 35 45/6 Path 1.03 44' - 3 3/8" Path 1.04 34' - 11 1/4"
		EXTERIOR BEARING WALLS: 0 HR INTERIOR BEARING WALLS: 0 HR	Path 1.0555' - 7 5/8"Path 1.0616' - 5 3/16"
		EXTERIOR NON-BEARING WALLS: 0 HR (>30' FROM C.L. OF PROPERTY LINE, TABLE 602) OPENING PROTECTION AT EXT. WALL: 0 HR (>30' FROM C.L. OF PROPERTY LINE, TABLE 705.8) STRUCTURAL FRAME: 0 HR ROOF SUPPORTS: 0 HR	Path 1.0716' - 6"Path 2.0159' - 8 1/2"Path 3.0158' - 3 1/8"
		NON-BEARING WALLS & INTERIOR PARTITIONS: 0 HR CORRIDORS: 0 HR FLOOR CONSTRUCTION: 0 HR	
		Active Fire Resistance Requirements	
		NOT REQUIRED (SECTION 905) FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT LOAD (SECTION 907.2.1)	
		SMOKE DETECTION: NOT REQUIRED EXIT SIGNS: NOT REQUIRED IN ROOMS THAT REQUIRE ONLY ONE EXIT. (SECTION 1013)	
		EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE (SECTION 1008.2.1)	
		PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 906.1)	
		Means of Egress	
		COMMON PATH OF EGRESS TRAVEL: COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON- SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE	
		MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1 (IBC SECTION 1006.2.1) DEAD END CORRIDORS:	
		DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IEBC SECTION 805.6) TRAVEL DISTANCE:	
		THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2) DOOR SWING:	
		DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)	
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h A/ 1" = 10'-0"			

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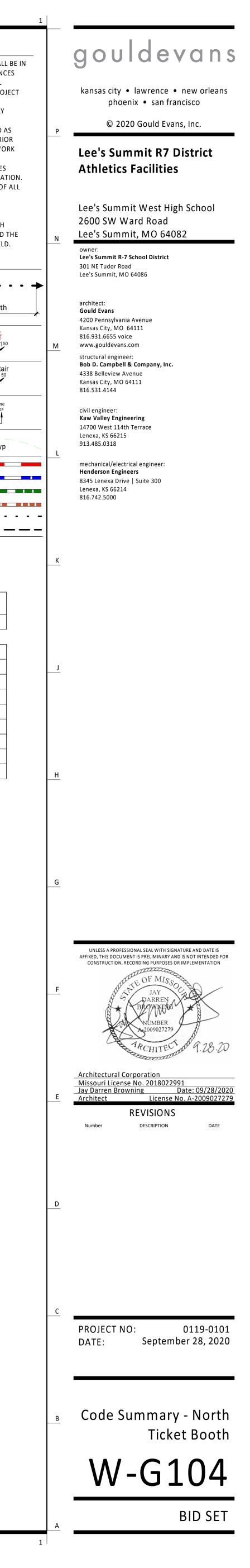


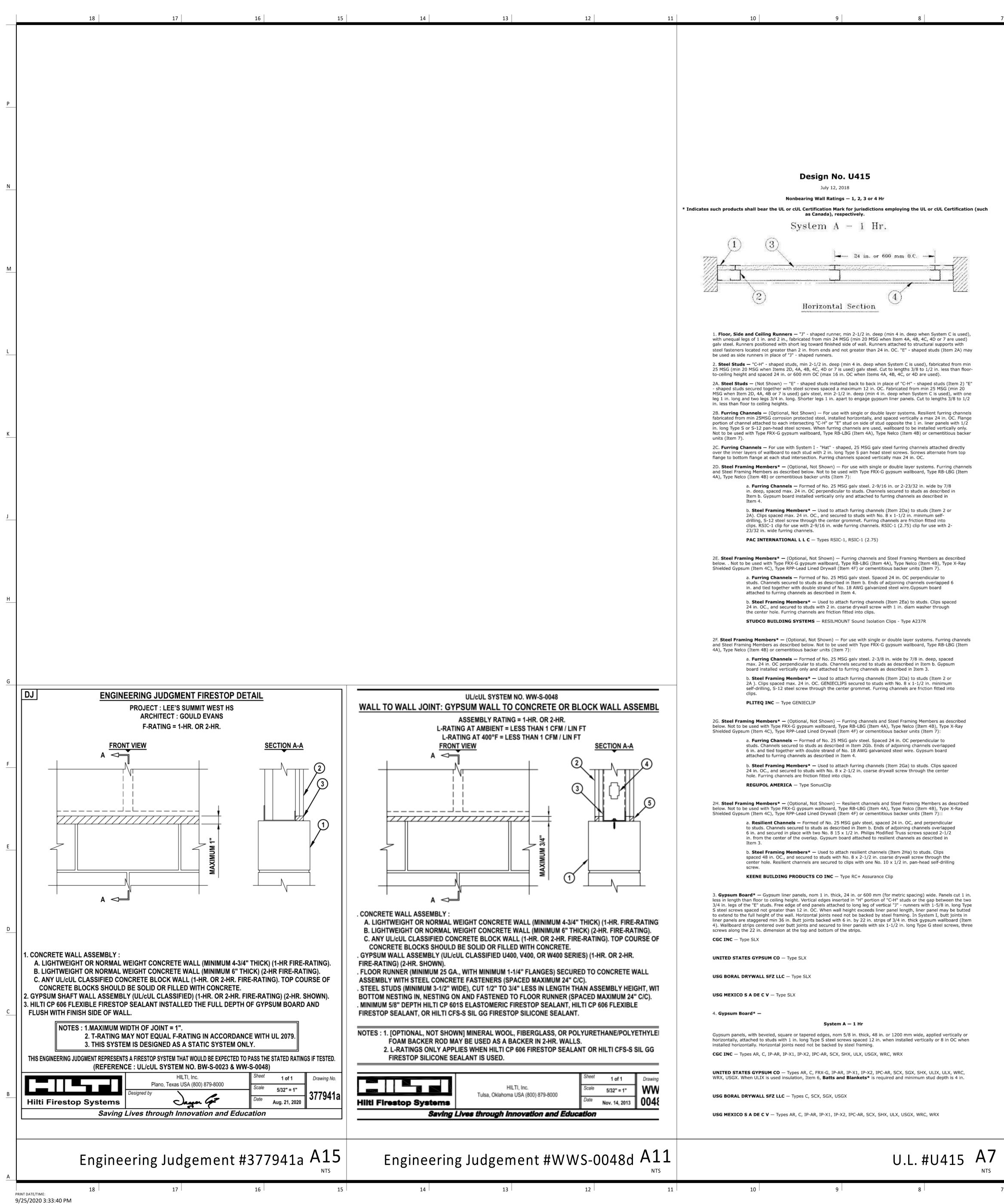
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ode Plan - North Ticket Boo	oth A11			
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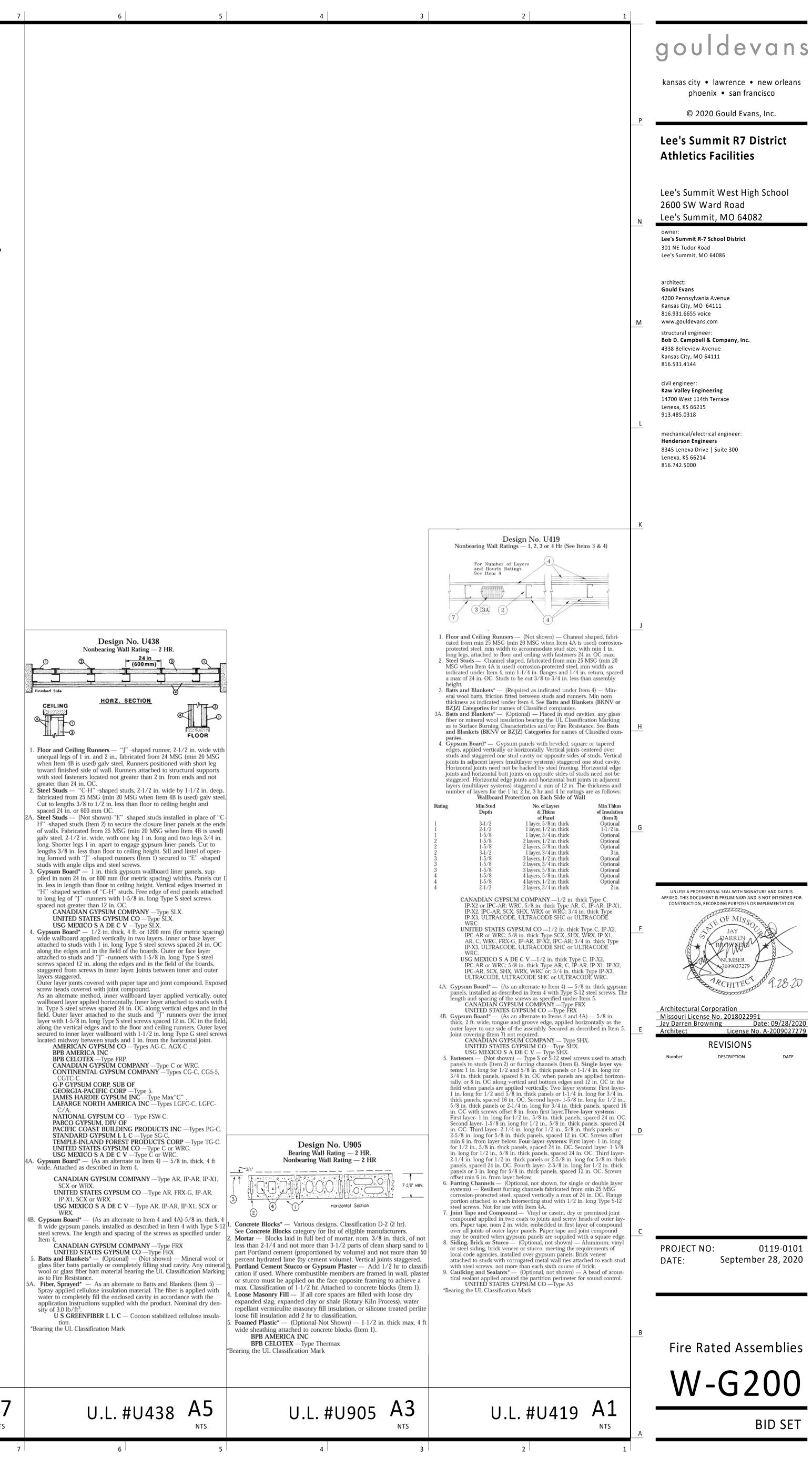
10 9 8 OCCUPANT LOADS:

TICKETING

(BASED ON 2018 IBC TABLE 1004.5) 60 GROSS	Description RENOVATION TO EXISTING OUTDOOR STADIUM FACILITIES WHICH WILL INCLUDE EXPANSION OF EXISTING PRESS BOX; CONSTRUCTION OF NEW	General Notes (Code Plans): 1. ALL WORK, MATERIALS, AND METHODS SHALL BE I CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL
SOUTH TICKET BOOTH TICKETING: 140 SF 3 OCCUPANTS TOTAL: 3 OCCUPANTS	RESTROOMS, CONCESSIONS, AND TICKET BOOTHS; AND CONSTRUCTION OF NEW BLEACHER SEATING.	AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION. 2. CONTRACTOR SHALL PROVIDE AND IS SOLELY RESPONSIBLE AND LIABLE FOR PUBLIC AND EMPLOYEE PROTECTION AS NECESSARY AND AS
Exiting Requirements	Applicable Codes 2018 International Building Code 2018 International Existing Building Code 2018 International Fire Code 2017 National Electric Code	REQUIRED BY THE CODES, INCLUDING EXTERIOR PEDESTRIAN AND TRAFFIC BARRIERS. ALL WORK SHALL CONFORM TO ORDINANCES AND REGULATIONS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION
EXIT WIDTHS DOORS, RAMPS, ETC (NOT INCLUDING BLEACHERS): 60 PEOPLE PER FOOT 0.2" PER OCCUPANT (SECTION 1005.3.2)	2018 International Mechanical Code 2018 International Plumbing Code 2018 International Enery Conservation Code 2009 Accessible and Usable Buildings and Facilities	 THE SIZE, TYPE, QUANTITY, AND LOCATION OF ALL TEMPORARY FIRE EXTINGUISHERS SHALL BE DETERMINED BY THE AUTHORITY HAVING JUISDICTION. COORDINATE LOCATION OF KNOX BOX WITH ARCHITECT, OWNER'S REPRESENTATIVE, AND THE
STAIRS (NOT INCLUDING BLEACHERS): 40 PEOPLE PER FOOT 0.3" PER OCCUPANT (SECTION 1005.3.1)	Building complies with all applicable codes.	AUTHORITY HAVING JUISDICTION IN THE FIELD. Code Plan Legend: Egress Path of Travel Path # Path # Path #
TRAVEL DISTANCE: ALLOWED: 200' (NON-SPRINKLED) ACTUAL: SEE CODE PLAN (TABLE 1017.2)	THE PROJECT SITE CONTAINS (3) ASSUMED PROPERTIES; EACH WITH A SINGLE USE OCCUPANCY IN EXISTING AND RENOVATED AREAS: B: NORTH TICKET BOOTH	Common Path of Travel, RE Schedule Length
COMMON PATH OF TRAVEL: 75' FOR A OCCUPANCY (SECTION 1006.2.1)		Egress Point EXIT Clear Width Provided 36" [180.7] 50 Maximum # of Occupants (by width) 700 Required # of Occupants Exit Stair Stair Egress Exit Stair Clear Width Provided 54" [180] 50 Maximum # of Occupants (by width) 74" [180] 50
NUMBER OF EXITS REQUIRED: ROOMS WITH OL 49 OR LESS: 1 EXIT ROOMS WITH OL 50-500: 2 EXITS ROOMS WITH OL 501-1,000: 3 EXITS ROOMS WITH OL 1,001 OR MORE: 4 EXITS (TABLE 1006.2.1, SECTION 1006.2.1.1)	Type of Construction	Occupancy Tag Occupancy Group Area Occupant Load
PANIC HARDWARE: NOT REQUIRED IN BUILDINGS (DUE TO OCCUPANT LOADS) (SECTION 1010.1.10)	Allowable Height NON SPRINKLED SPRINKLED HEIGHT STORIES HEIGHT	Fire Extinguisher Radius 75' Typ 1-Hour: Fire Rated Assembly 2-Hour: Fire Rated Assembly
<u>SOUTH TICKET BOOTH:</u> REQUIRED EXIT WIDTH: 4 x 0.2" = 0.8" ACTUAL EXIT WIDTH: 34" TOTAL EGRESS CAPACITY: 170	B: 55' 3 75'	3-Hour: Fire Rated Assembly 4-Hour: Fire Rated Assembly Smoke Barrier Smoke Partition
ACTUAL OCCUPANCY: 4	Building Height NORTH TICKET BOOTH: 1 STORY - APX 13'	
	NON SPRINKLED (NS) SPRINKLED (S1) B: 23,000 SF 92,000 SF	Path of Egress ScheduleMarkPath of Egress
	Building Area	Path 1.01 32' - 9 11/16" Path 1.02 39' - 4 5/8" Path 1.03 44' - 3 3/8" Path 1.04 34' - 11 1/4" Path 1.05 55' - 7 5/8"
	Passive Fire Requirements	Path 1.05 35 - 7 3/8 Path 1.06 16' - 5 3/16" Path 1.07 16' - 6" Path 2.01 59' - 8 1/2"
	EXTERIOR BEARING WALLS: 0 HR INTERIOR BEARING WALLS: 0 HR EXTERIOR NON-BEARING WALLS: 0 HR (>30' FROM C.L. OF PROPERTY LINE, TABLE 602) OPENING PROTECTION AT EXT. WALL: 0 HR	Path 3.01 58' - 3 1/8"
	(>30' FROM C.L. OF PROPERTY LINE, TABLE 705.8) STRUCTURAL FRAME: 0 HR ROOF SUPPORTS: 0 HR NON-BEARING WALLS & INTERIOR PARTITIONS: 0 HR	
	CORRIDORS: 0 HR FLOOR CONSTRUCTION: 0 HR	
	Active Fire Resistance Requirements AUTOMATIC SPRINKLER SYSTEM: (SECTION 903) NOT REQUIRED	
	STANDPIPES: NOT REQUIRED (SECTION 905) FIRE ALARM SYSTEM: NOT REQ'D. DUE TO OCCUPANT LOAD (SECTION 907.2.1) SMOKE DETECTION: NOT REQUIRED	
	EXIT SIGNS: NOT REQUIRED IN ROOMS THAT REQUIRE ONLY ONE EXIT. (SECTION 1013) EMERGENCY LIGHTING: MINIMUM OF 1 FOOTCANDLE AT THE WALKING SURFACE	
	(SECTION 1008.2.1) PORTABLE FIRE EXTINGUISHERS: REQUIRED (SECTION 906.1)	
	Means of Egress	
	COMMON PATH OF EGRESS TRAVEL: COMMON PATH OF EGRESS TRAVEL SHOULD NOT EXCEED 75 FEET FOR USE GROUP A IN NON- SPRINKLED BUILDINGS (IBC TABLE 1006.2.1). THE MAXIMUM OCCUPANT LOAD OF SPACE IS 49. TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN	
	TABLE 1006.2.1 (IBC SECTION 1006.2.1) DEAD END CORRIDORS: DEAD END CORRIDORS SHOULD NOT EXCEED 20 FEET IN LENGTH FOR USE GROUP A (IBC SECTION 1020.4). DEAD END CORRIDORS IN AN EXISTING CONDITION SHOULD NOT EXCEED 35' (IEBC SECTION 805.6)	
	TRAVEL DISTANCE: THE MAXIMUM TRAVEL DISTANCE TO AN EXIT SHOULD NOT EXCEED 200 FEET FOR USE GROUP A OCCUPANCIES (IBC TABLE 1017.2) DOOR SWING:	
	DOOR SWING IS REQUIRED TO SWING IN THE DIRECTION OF TRAVEL WHEN THE OCCUPANT LOAD IS MORE THAN 50 (IBC SECTION 1010.1.2.1)	
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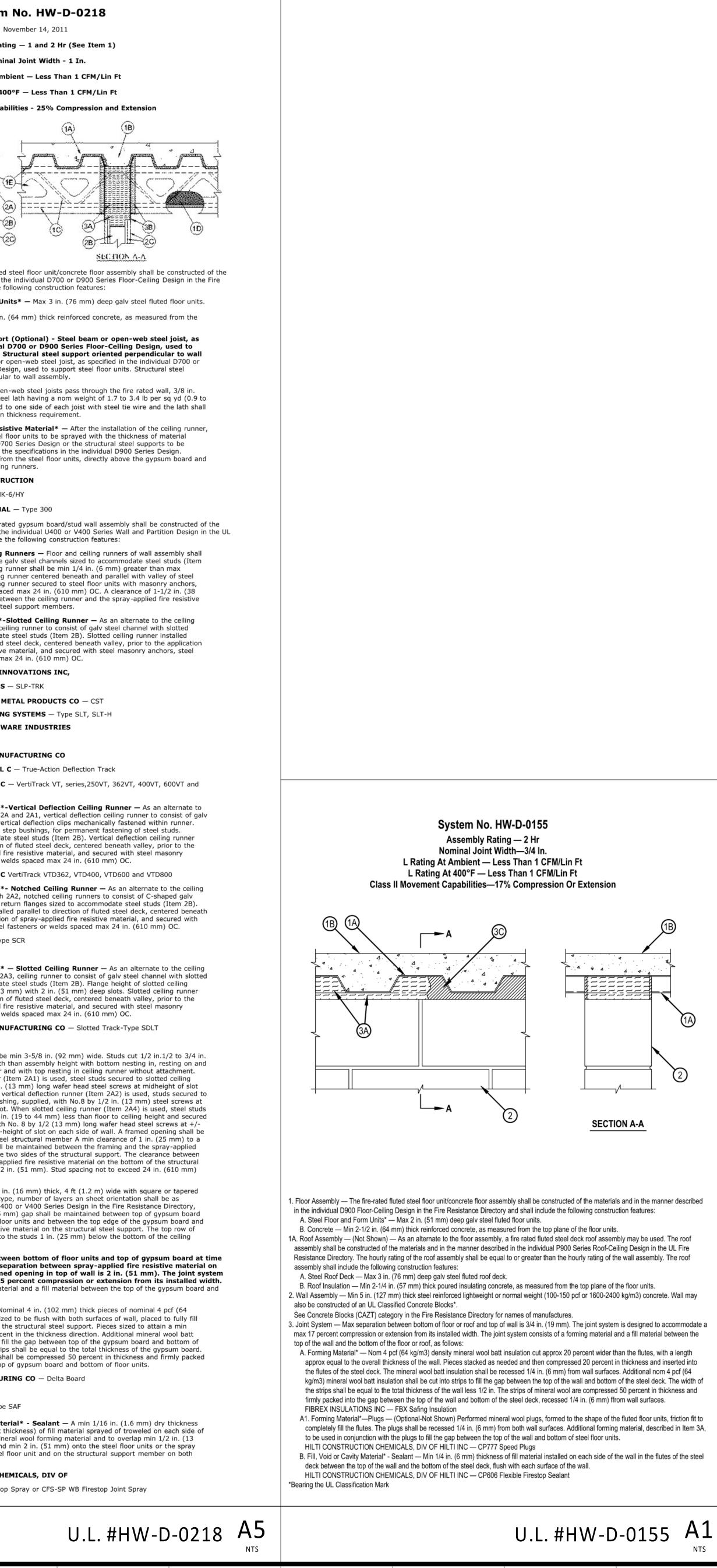




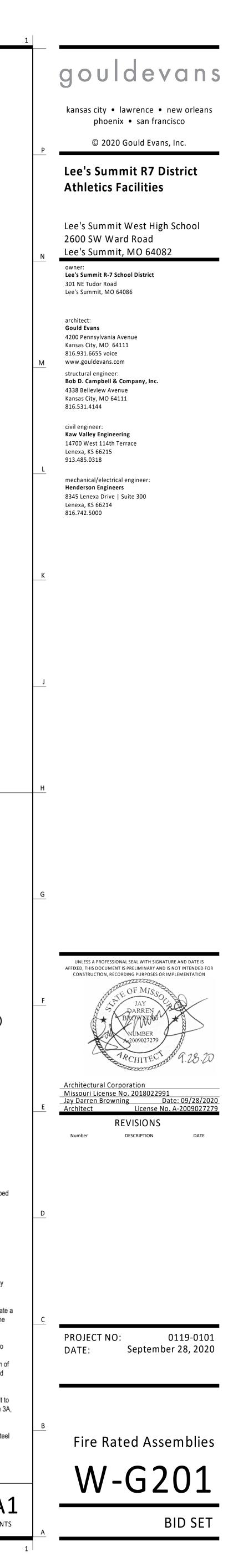


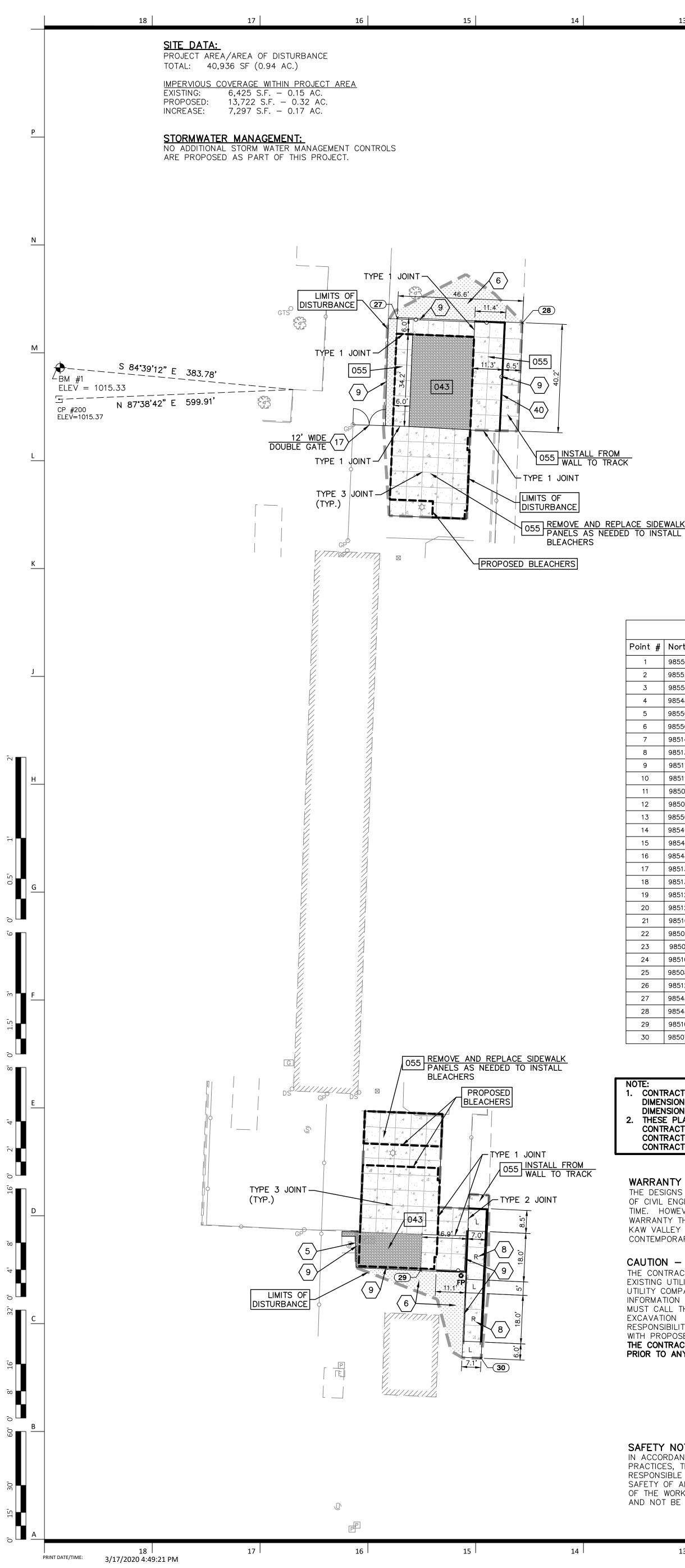
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	System
	Assembly Rat
	Nomi L Rating At Am
	L Rating At 40 Class II Movement Capa
	1. Floor Assembly — The fire-rated fluted materials and in the manner described in th Resistance Directory and shall include the f A. Steel Floor and Form Un B. Concrete — Min 2-1/2 in.
	b. Concrete — Mill 2-1/2 m. top plane of the floor units. C. Structural Steel Suppor specified in the individual support steel floor units. S assembly. — Steel beam or D900 Series Floor-Ceiling De support oriented perpendicul D. Steel Lath — Where open diamond mesh expanded stee 1.8 kg/m ²) shall be secured be fully covered with no min E. Spray-Applied Fire Resi (Item 2A, 2A1 or 2A2) steel specified in the individual D7 sprayed in accordance with t Material is to be excluded fro from the flanges of the ceilin
	W R GRACE & CO CONSTR PRODUCTS DIV — Type MK ISOLATEK INTERNATIONA 2. Wall Assembly* — The 1 or 2 h fire-ra materials and in the manner specified in th Fire Resistance Directory and shall include
System No. HW-D-0584	A. Steel Floor and Ceiling consist of min No. 25 gauge 2B). Flange height of ceiling
October 15, 2009 Assembly Rating — 2 Hr	extended joint width. Ceiling floor units (Item 1A). Ceiling steel fasteners or welds spac mm) shall be maintained bet
L Rating at Ambient -2.1 CFM/Lin ft L Rating at 400° F -1.33 CFM/Lin ft	material on the structural ste A1 Light Gauge Framing*- runner in Item 2A, slotted ce flanges sized to accommedat
Nominal Joint Width — 1-1/16 in.	flanges sized to accommodat parallel to direction of fluted of spray-applied fire resistive fasteners or welds spaced m
Class II and III Movement Capabilities -94%Compression or 100% Extension	BRADY CONSTRUCTION IN DBA SLIPTRACK SYSTEMS CALIFORNIA EXPANDED M CLARKDIETRICH BUILDIN MARINO/WARE, DIV OF W INC — Type SLT SCAFCO STEEL STUD MAN TELLING INDUSTRIES L L
	THE STEEL NETWORK INC 800VT A2. Light Gauge Framing*
(2B) Section A-A (2B) A	the ceiling runners in Item 2 steel channel with slotted ve Slotted clips, provided with s Flanges sized to accommoda
 Floor Assembly — The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features: 	installed parallel to direction application of spray-applied f anchors, steel fasteners or w
 A. Steel Floor and Form Units* — Max 3 in. (76 mm) deep galv steel fluted floor units. B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the 	THE STEEL NETWORK INC A3. Light Gauge Framing* runners in Items 2A through
floor units. 1A. Roof Assembly — (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof shall by constructed of the materials and in the manner described in the individual P900-Series Roof-Ceiling designs in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:	steel channel with notched re Notched ceiling runner instal valley, prior to the applicatio steel masonry anchors, steel OLMAR SUPPLY INC — Typ
 A. Steel Roof Deck — Max 3 in. deep galv steel fluted roof deck. B. Roof Insulation — Roof insulation to consist of min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck. 	A4. Light Gauge Framing* runner in Item 2A through 2. flanges sized to accommodat
 Shaft Wall Assembly — The 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features: A. Steel Floor and Ceiling Runners — Floor runner U-shaped, sized to accommodate steel studs (Item 	runner shall be 3-1/4 in. (83 installed parallel to direction application of spray-applied f anchors, steel fasteners or w SCAFCO STEEL STUD MAN
2B), fabricated from 24 ga galv steel. Ceiling runner positioned with slotted leg toward finished side of wall. Runners attached to floor with steel fasteners located not greater than 2 in. from ends and not greater than 24 in OC. The ceiling runners are provided with a fill, void or cavity material and are described in Item 3.	B. Studs — Steel studs to be (13 to 19 mm) less in length fastened to the floor runner a
 B. Studs — "C-T", "I", or "C-H" shaped steel studs to be min 2 1/2 in. (64 mm) wide and formed of min 24 ga galv steel. Studs cut 2-2-1/4 (51 to 57 mm) less in length than assembly height with bottom nesting in and secured to floor runner. Steel studs secured to slotted leg of ceiling runner on finished side with No. 8 by 1/2 (13 mm) long wafer head steel screws at mid-height of exposed slot. Studs spaced max 24 in. (610 mm) OC. C. Gypsum Board* — 1 in. (25 mm) thick by max 24 in. (610 mm) wide gypsum board liner panels. 	When slotted ceiling runner (runner with No. 8 by 1/2 in. on each side of wall. When v vertical clip through slip bush midheight of slot of each slot cut in lengths 3/4 to 1-3/4 in to slotted ceiling runner with
Panels cut 1-1/4 to 1-1/2 in. (32 to 38 mm) less in length than floor to ceiling hight. Vertical edges inserted into "T" shaped section of "C-T" studs, into holding tabs of "I" studs or into "H"-shaped section of "C-H" studs. A nominal 3-5/8 in. (92 mm) wide rip of gypsum board covering the leg of the ceiling runner attached a max of 3/8 in. (10 mm) below the track web and a max of 8 in. (203 mm) O.C. to ceiling runner on the non-finished side of wall.	3/16 in. (5 mm) of the mid- constructed around each stee max of 4 in. (102 mm) shall fire resistive material on the the framing and the spray-ap steel support shall be max 2 OC.
as specified in the individual Wall and Partition Design. The boards cut a max 1-1/4 to 1-1/2 in. (32 to 38 mm) less in length than the floor to ceiling height. The screws attaching the gypsum board layer(s) to the "C-T", "I", or "C-H" studs shall be located 4 to 5 in. (102 to 127 mm) down from deck at time of installation. The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.	C. Gypsum Board* — 5/8 in edges. The gypsum board ty specified in the individual U4 except that a max 1 in. (25 m and bottom plane of steel flo the spray applied fire resistiv screws shall be installed into
3. Joint System — Max separation between bottom of floor and top of gypsum board (at time of installation) is 1-1/16in. (27 mm). The joint system is designed to accommodate a max 94 percent compression or 100 percent extension from its installed width.	3. Joint System — Max separation betw of installation is 1 in. (25 mm). Max se
A. Forming Material* — Min 4 pcf (64 kg/m ³) mineral wool insulation cut to the shape of the fluted steel floor units, approx 33% larger than the area of the flutes. Pieces compressed and inserted into the flutes above the top ceiling runner flush with the finished wall surface.	bottom of structural support and frame is designed to accommodate a max 25 The joint system consists of a forming mat the bottom of the floor, as follows
B. Forming Material* — Min 2 in. thick min 4 pcf (64 kg/m ³) mineral wool batt insulation cut to the width of the ceiling runner and compressed approximately 47 percent in thickness, installed into ceiling runner between leg of track and gypsum liner board.	the bottom of the floor, as follows A. Forming Material* — No kg/m ³) forming material, size the framed opening around t
C. Fill, Void or Cavity Material* — Nom 20 ga U-shaped track having 3-1/4 in (83 mm) legs with a nom 2-1/2 in. (64 mm) wide intumescent strip affixed to the top of the leg overlapping on to top surface a min of 1/4 in. (6 mm) facing the finished side of wall. Gypsum board to overlap a min of 1in. (25 mm) over the intumescent strip. Track to be secured to bottom side of floor assembly with min 2 in. (51 mm) steel fasteners spaced at a max of 24 in. (610 mm) OC.	compression rate of 50 perce insulation cut into strips to fi floor units. Width of the strip The strips of mineral wool sh into the gap between the top ROCK WOOL MANUFACTU
CALIFORNIA EXPANDED METAL PRODUCTS CO — FAS SHAFT Track DL2	ROXUL INC — SAFE THERMAFIBER INC — Type
Bearing the UL Classification Mark earance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under ow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always the Mark on the product. Its the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information,	B. Fill, Void or Cavity Mate (min 1/8 in. or 3.2 mm wet t wall to completely cover min mm) onto gypsum board and applied material on the steel sides of wall.
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LEE'S SUMMIT WEST HIGH SCHOOL SITE PLAN 2600 SW WARD ROAD, LEE'S SUMMIT, MO 64082 **SECTION 8 - TOWNSHIP 47 N - RANGE 31 W**

PREPARED FOR: LEE'S SUMMIT SCHOOL DISTRICT 302 SE TRANSPORT RD, LEE'S SUMMIT, MO 6408 PHONE: (816) 986-2421 CONTACT: KÝLE GORRELL EMAIL: kyle.gorrell@lsr7.net

PREPARED BY:	
KAW VALLEY ENGINEERING,	INC
14700 W 114TH TERR.	
LENEXA, KANSAS 66215	
PHONE: (913) 894-5150	
CONTACT: DÁVID WOOD	

LEGEND:

EMAIL: wood@kveng.com

—G——	UNDERGROUND GAS	*	CONIFEROUS TREE
G	GAS METER		TREE LINE
<u>.</u>	CONTROL POINT	HDPE	HIGH DENSITY POLYETHYLENE
\bullet	BENCHMARK	G	GAS VALVE
GPO	GATE POST	GRO	GAS RISER
	CHAIN LINK FENCE	G	GAS LINE SIGN
	STREET/TRAFFIC SIGN	DE	DOOR ELEVATION
-FOC	UNDERGROUND FIBER OPTIC CABLE		AT THRESHOLD
FOC(R)—	UNDERGROUND FIBER OPTIC (FROM RECORDS) FF	FINISH FLOOR ELEVATION
TP	TELEPHONE PEDESTAL	BHE	BUILDING HEIGHT/ELEVATION
S	SANITARY SEWER MANHOLE	B/B	BACK TO BACK OF CURB MEAS
\square	STORM SEWER MANHOLE	E/E	EDGE TO EDGE OF ASPHALT
AIO	AREA INLET	W	WATER LINE
CI O	CURB INLET	W	WATER METER
co ^O	SANITARY SEWER CLEAN OUT	\otimes	WATER LINE GATE VALVE
DSO	DOWN SPOUT		
\square	FLARED END SECTION	Θ	BUSH
—s—	SANITARY SEWER LINE		DECIDUOUS TREE
—D——	STORM SEWER LINE	CONC	CONCRETE
CMP	CORRUGATED METAL PIPE	FP O	FLAG POLE
RCP	REINFORCED CONCRETE PIPE	E	ELECTRIC METER
	UNDERGROUND ELECTRIC	EP	UNDERGROUND ELECTRIC PEDES
OU	OVERHEAD UTILITY LINE (# OF LINES)	——G(R)——	UNDERGROUND GAS PER RECOR
Ρ	PULL BOX		SANITARY SEWER LINE PER REC
¢	LIGHT POLE	D(R)	STORM SEWER LINE PER RECOR
-D-	UTILITY POLE		ASPHALT PAVEMENT (040)
	UTILITY POLE W/ LIGHT		CONCRETE SIDEWALK (055)
Ð	UTILITY POLE W/ TRANSFORMER		TURF
-W(R)	WATER LINE PER RECORD	<u></u>	
—E(R)——	UNDERGROUND ELECTRIC PER RECORD	L R	LANDING RAMP
			LIMITS OF DISTURBANCE

NOTES:

WESTERN EXTENTS OF GRAVEL SURFACE TO ABUT UTILITY VAULT.

DISTURBED AREA SHALL BE FERTILIZED, MULCHED AND SEEDED WITH A THREE WAY BLEND OF TALL TURF TYPE FESCUE. (REFER TO SEEDING REQUIREMENTS ON SHEET W-C900.) ALL SEEDED AREAS WITHIN 10' OF SIDEWALKS AND BUILDING, WITHIN 5' OF STORM OUTFALLS AND ON SLOPES STEEPER THAN 4:1 SHALL BE PROTECTED WITH A TYPE 2 EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75BN OR APPROVED EQUAL.) CONCRETE STOOP (REFERENCE STRUCTURAL PLANS.)

- SIDEWALK RAMP. (REFERENCE ARCHITECTURAL PLANS FOR FINAL LAYOUT AND DIMENSIONS.) PROPOSED FENCING. (REFERENCE ARCHITECTURAL PLANS FOR HEIGHTS,
- MATERIALS AND DETAILS.) 9A RELOCATED TURNSTILE (REFERENCE ARCHITECTURAL PLANS FOR DETAILS.)
- 17 ACCESS GATE (REFERENCE ARCHITECTURAL PLANS FOR HEIGHTS, MATERIALS AND DETAILS.) 40 CAST IN PLACE CONCRETE WALL (REFER TO STRUCTURAL PLANS.)
- 60 PROPOSED OR MODIFIED STORM SEWER STRUCTURE (SEE SHEET W-C500.) 70 SANITARY SEWER STRUCTURE (SEE SHEET W-C500.) 80 WATER STRUCTURE (SEE SHEET W-C500.)

PROPOSED

BLEACHER EXTENSION

 $\left< 6 \right>$

- 95 PROPOSED TRANSFORMER ON HOUSEKEEPING PAD/ELECTRICAL APPURTENANCE. COORDINATE WITH MEP PLANS.
- DETAILS SEE DETAIL SHEET W-C900
- FOR THE FOLLOWING DETAILS
- ASPHALT PAVEMENT 040 AGGREGATE SURFACE 043
- 055 CONCRETE SIDEWALK
- NOTE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS. THESE PLANS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL DRAWINGS AND

CONTRACTOR DOCUMENTS.

WARRANTY / DISCLAIMER THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

12	

11

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9 |

ALIGN WITH FENCE TO THE NORTH 9

LIMITS OF

DISTURBANCE

8' WIDE DOUBLE GATE

FENCE TO EXTEND 9

EXTENTS POSSIBLE.

FENCE LINE. FOLLOW LEVEL

GRADE TO THE MAXIMUM

8

7 |

6

5

Point Table					
Point #	Northing	Easting	Elevation	Description	
1	985531.58	2816515.18	0.00	PEOA	
2	985524.02	2816579.63	0.00	PEOA	
3	985502.10	2816577.72	0.00	PEOA	
4	985489.92	2816528.43	0.00	SW	
5	985503.90	2816510.51	0.00	SW	
6	985508.84	2816511.28	0.00	PEOA	
7	985146.40	2816628.67	0.00	SW	
8	985133.38	2816589.22	0.00	SW	
9	985117.88	2816538.07	0.00	SW	
10	985113.99	2816471.16	0.00	SW	
11	985064.81	2816468.14	0.00	SW	
12	985061.59	2816520.47	0.00	SW	
13	985500.72	2816534.39	0.00	BLDG ENVELOPE	
14	985499.39	2816549.61	0.00	BLDG ENVELOPE	
15	985488.16	2816548.63	0.00	BLDG ENVELOPE	
16	985489.49	2816533.41	0.00	BLDG ENVELOPE	
17	985135.35	2816595.18	0.00	BLDG ENVELOPE	
18	985138.88	2816605.88	0.00	BLDG ENVELOPE	
19	985124.38	2816610.67	0.00	BLDG ENVELOPE	
20	985120.85	2816599.96	0.00	BLDG ENVELOPE	
21	985101.38	2816545.80	0.00	BLDG ENVELOPE	
22	985068.17	2816543.76	0.00	BLDG ENVELOPE	
23	985071.61	2816487.93	0.00	BLDG ENVELOPE	
24	985105.26	2816482.65	0.00	BLDG ENVELOPE	
25	985080.04	2816481.10	0.00	BLDG ENVELOPE	
26	985128.76	2816480.00	0.00	SW	
27	985456.45	2816130.41	0.00	SW	
28	985454.55	2816176.92	0.00	SW	
29	985103.06	2816139.09	0.00	SW	
30	985070.58	2816161.52	0.00	SW	



TYPE 1 JOINT

ELEV = 1018.13

(6)

′80 <u>}</u>-

(5)

ΒM

040

055 6" MIN.

80

3 |



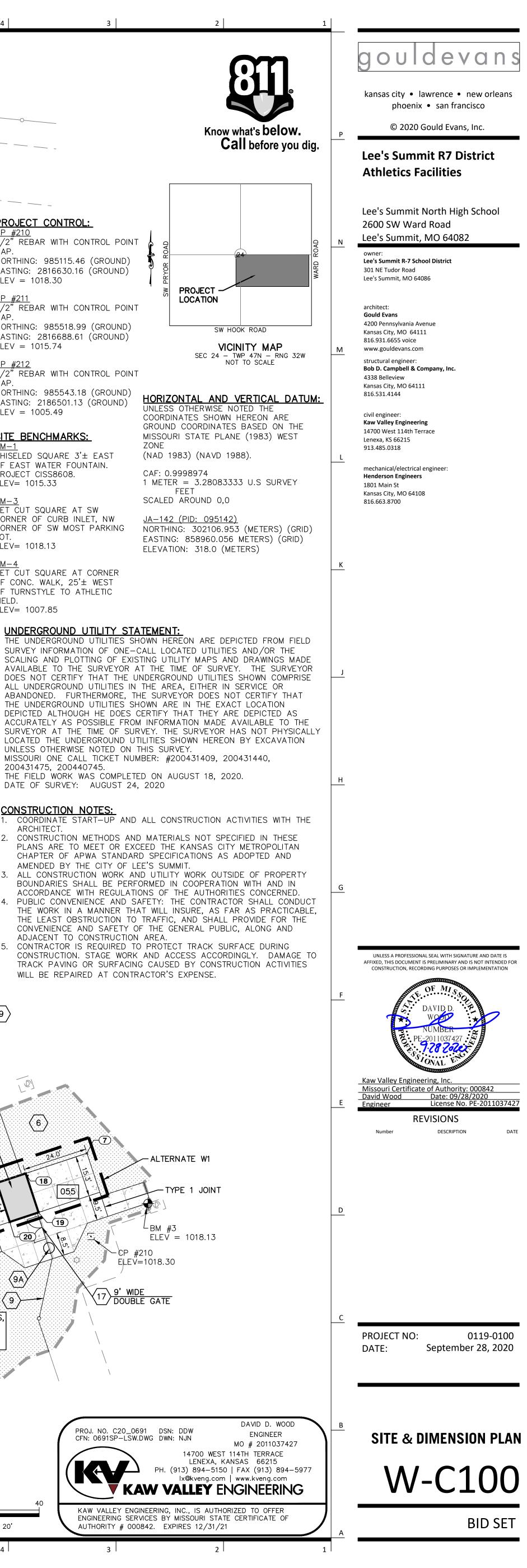


1/2" REBAR WITH CONTROL POINT

NORTHING: 985115.46 (GROUND) EASTING: 2816630.16 (GROUND)

NORTHING: 985518.99 (GROUND) EASTING: 2816688.61 (GROUND)

NORTHING: 985543.18 (GROUND) EASTING: 2186501.13 (GROUND)

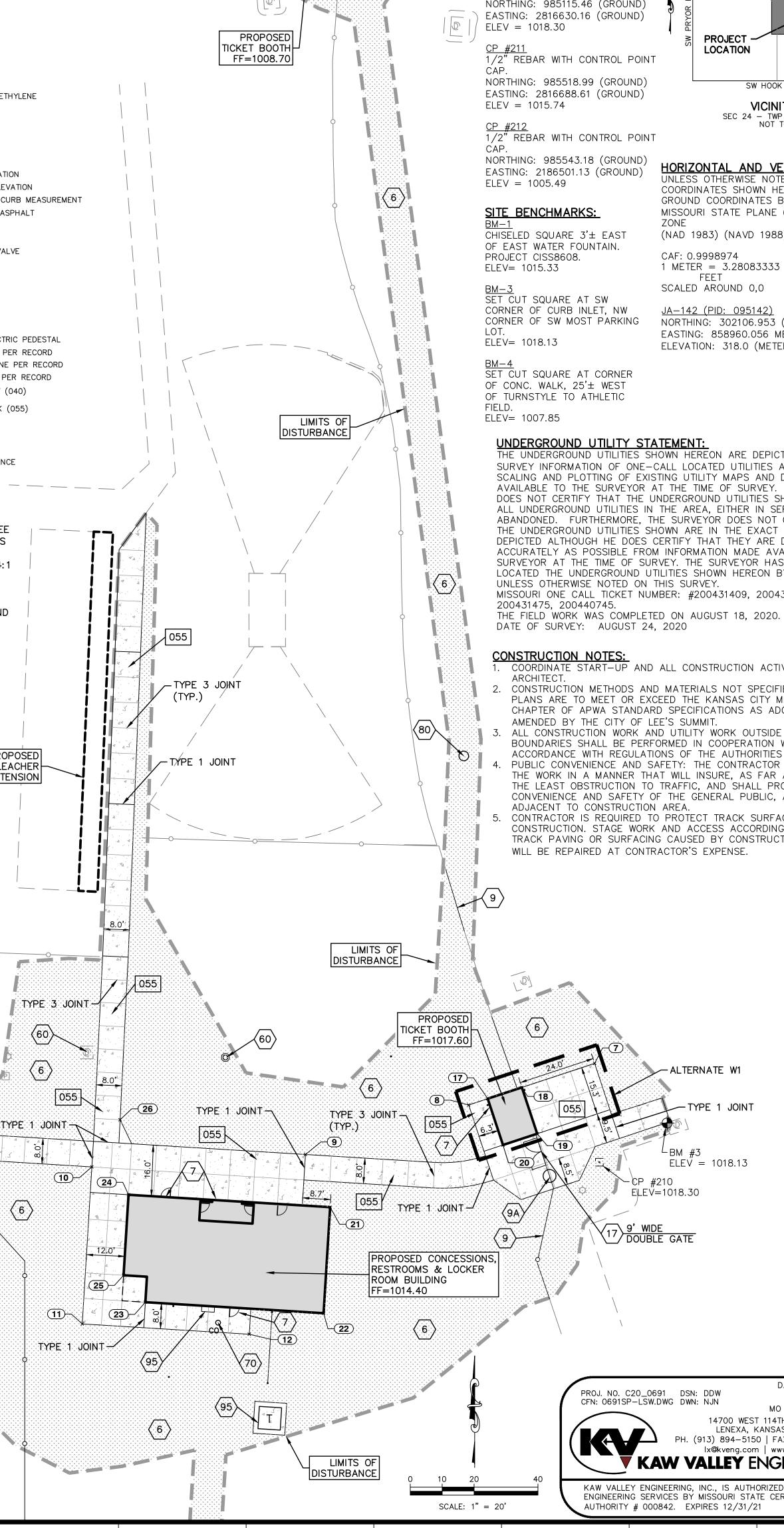


COORDINATES SHOWN HEREON ARE GROUND COORDINATES BASED ON THE MISSOURI STATE PLANE (1983) WEST ZONE

1 METER = 3.28083333 U.S SURVEYSCALED AROUND 0,0

<u>JA-142 (PID: 095142)</u>

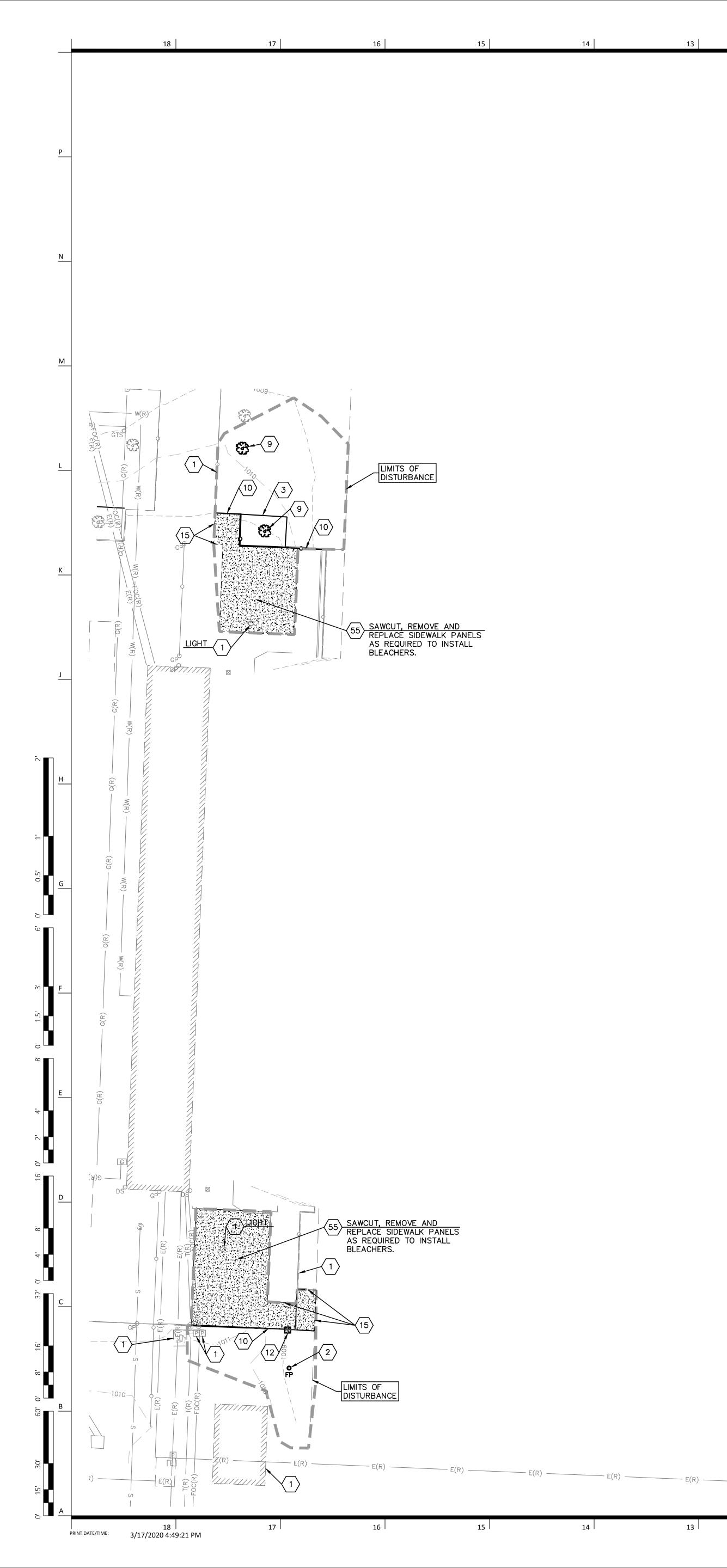
EASTING: 858960.056 METERS) (GRID) ELEVATION: 318.0 (METERS)



- . COORDINATE START-UP AND ALL CONSTRUCTION ACTIVITIES WITH THE
- CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE KANSAS CITY METROPOLITAN CHAPTER OF APWA STANDARD SPECIFICATIONS AS ADOPTED AND
- AMENDED BY THE CITY OF LEE'S SUMMIT. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC, AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC, ALONG AND
- ADJACENT TO CONSTRUCTION AREA. CONTRACTOR IS REQUIRED TO PROTECT TRACK SURFACE DURING CONSTRUCTION. STAGE WORK AND ACCESS ACCORDINGLY. DAMAGE TO TRACK PAVING OR SURFACING CAUSED BY CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.

PROJ. NO. C20_0691 DSN: DDW CFN: 0691SP-LSW.DWG DWN: NJN KAW VALLEY ENGINEERING KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF

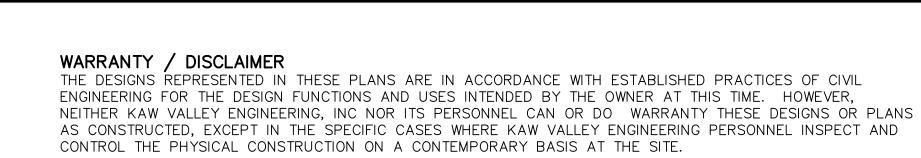
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	12 11		10	9 8 7
):		
GG	- UNDERGROUND GAS GAS METER	HDPE c [®]	HIGH DENSITY POLYETHYLENE GAS VALVE	
⊡ �	CONTROL POINT BENCHMARK	GR O	GAS RISER GAS LINE SIGN	
GP ^O	GATE POST - CHAIN LINK FENCE	DE	DOOR ELEVATION AT THRESHOLD	
	STREET/TRAFFIC SIGN - UNDERGROUND FIBER OPTIC CABLE - UNDERGROUND FIBER OPTIC (FROM RECC	FF BHE	FINISH FLOOR ELEVATION BUILDING HEIGHT/ELEVATION	
	TELEPHONE PEDESTAL SANITARY SEWER MANHOLE	DRDS) B/B E/E	BACK TO BACK OF CURB MEASUREMENT EDGE TO EDGE OF ASPHALT - WATER LINE	
© _{AI} O	STORM SEWER MANHOLE AREA INLET	₩	WATER METER WATER LINE GATE VALVE	
ci O co ^o	CURB INLET SANITARY SEWER CLEAN OUT	690	BUSH DECIDUOUS TREE	W(R) ESC-03 1005
DS ^O FD	DOWN SPOUT FLOOR DRAIN	T/E L/S	TRASH ENCLOSURE LANDSCAPING AREA	
s	FLARED END SECTION - SANITARY SEWER LINE - STORM SEWER LINE	CONC FP [©]	CONCRETE FLAG POLE ELECTRIC METER	40
CMP RCP	CORRUGATED METAL PIPE REINFORCED CONCRETE PIPE	Ē	UNDERGROUND ELECTRIC PEDESTAL LANDING	
OU	- UNDERGROUND ELECTRIC - OVERHEAD UTILITY LINE (# OF LINES)	R G(R)	RAMP - UNDERGROUND GAS PER RECORD	
P ¢	PULL BOX LIGHT POLE		- SANITARY SEWER LINE PER RECORD - STORM SEWER LINE PER RECORD	
ے ب م	UTILITY POLE UTILITY POLE W/ LIGHT UTILITY POLE W/ TRANSFORMER	14.1 - 11.4 - 1 1.	ASPHALT PAVING TO BE REMOVED	
	- WATER LINE PER RECORD - UNDERGROUND ELECTRIC PER RECORD		CONCRETE PAVING/SIDEWALKS TO BE RE	EMOVED ESC-07
*	CONIFEROUS TREE TREE LINE			
			_	
ERC	SION & PROPOSED IMPROVEMENT	<u>S LEGEND:</u>		
	218 EXISTING GROUND CON			
	GRAVEL FILTER BAGS			
	SEDIMENTATION FENCE	ICE		
	LIMITS OF DISTURBANCE	Ξ		
	CW CONCRETE WASH AREA			
				G(R)
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			ESC-03	1 SEE SHEET C500
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	12 11		10	9 8 7

13



OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE

CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON

AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE

THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND

COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE

STRUCTURES FROM WITHIN PROPERTY LINES EXCEPT AS DESIGNATED "TO REMAIN" OR "TO BE

REMOVED BY OTHERS", IN ACCORDANCE WITH THE SPECIFICATIONS AND THE CITY OF LEE'S

SUMMIT AND STATE REGULATIONS. SITE CONDITIONS SHOWN WERE AS OF AUGUST 26, 2020.

2. ALL UTILITY PIPE LINES TO BE ABANDONED SHALL BE PLUGGED PER CITY AND STATE

SHALL BE COMPLETELY REMOVED TO 10 FEET OUTSIDE OF BUILDING LINE.

CONSTRUCTION ACTIVITIES WILL BE REPAIRED AT CONTRACTOR'S EXPENSE.

12 REMOVE ELECTRICAL OUTLET. (COORDINATE WITH MEP PLANS)

55 CONTRACTOR TO REMOVE CONCRETE PAVING AND WALKS.

15 SAWCUT LINE. REMOVE PAVING AT NEAREST JOINT.

DETAILS - SEE W-C900 SERIES FOR DETAILS.

ESC-01 CONCRETE ENTRANCE AND CONCRETE WASHOUT ESC-03 SILT FENCE ESC-07 AREA INLET AND JUNCTION BOX PROTECTION

DISCONNECTED PRIOR TO COMMENCING DEMOLITION.

3. ALL PAVING, FLATWORK AND OTHER STRUCTURES DESIGNATED TO BE REMOVED SHALL BE

REMOVED FROM PROPERTY AND DISPOSED OF IN CONFORMANCE WITH LOCAL, STATE AND

4. ALL EXISTING UTILITIES ETC. LOCATED WITHIN THE BOUNDARIES OF THE PROPOSED BUILDING

6. CONTRACTOR TO PROVIDE CONCRETE WASHOUT AND CONSTRUCTION ENTRANCE FOR PROJECT.

COORDINATE FINAL LOCATION IN FIELD WITH SCHOOL DISTRICT TO AVOID DISRUPTION TO

7. CONTRACTOR IS REQUIRED TO PROTECT TRACK SURFACE DURING CONSTRUCTION. STAGE WORK AND ACCESS ACCORDINGLY. DAMAGE TO TRACK PAVING OR SURFACING CAUSED BY

2 EXISTING FLAGPOLE TO BE REMOVED. RELOCATE IF REQUIRED BY SCHOOL DISTRICT.

40 CONTRACTOR TO REMOVE ASPHALT PAVING AS REQUIRED TO CONSTRUCT IMPROVEMENTS.

1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE

THESE PLANS HAVE <u>NOT</u> BEEN VERIFIED WITH FINAL ARCHITECTURAL CONTRACT DRAWINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR IS FULLY RESPONSIBLE FOR REVIEW

AND COORDINATION OF ALL DRAWINGS AND CONTRACTOR DOCUMENTS.

Know what's **below.**

3

Call before you dig.

PROJ. NO. C20_0691 DSN: DDW

CFN: 0691DEMO-LSW.DWOWN: NJN

SCALE: 1" = 20'

14700 WEST 114TH TERRACE LENEXA, KANSAS 66215

lx@kveng.com | www.kveng.com

2

KAW VALLEY ENGINEERING, INC., IS AUTHORIZED TO OFFER ENGINEERING SERVICES BY MISSOURI STATE CERTIFICATE OF AUTHORITY # 000842. EXPIRES 12/31/21

DAVID D. WOOD

ENGINEER

5. CONTRACTOR SHALL VERIFY THAT ALL UTILITIES TO EXISTING STRUCTURES HAVE BEEN

LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION NOTES: CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE ALL BUILDINGS, UTILITIES, PAVEMENT, FOUNDATIONS, FENCES, CURBS AND ALL OTHER

/ - _ _

_ __ _/

LIMITS OF DISTURBANCE

LIMITS OF

(10)----

ALTERNATE W1

6

5

7

DISTURBANCE

NOTE:

LOCATIONS.

4

6

CAUTION - NOTICE TO CONTRACTOR

REGULATIONS.

FEDERAL REGULATIONS.

PEDESTRIAN ACCESS.

> DEMOLITION

9 REMOVE TREE.

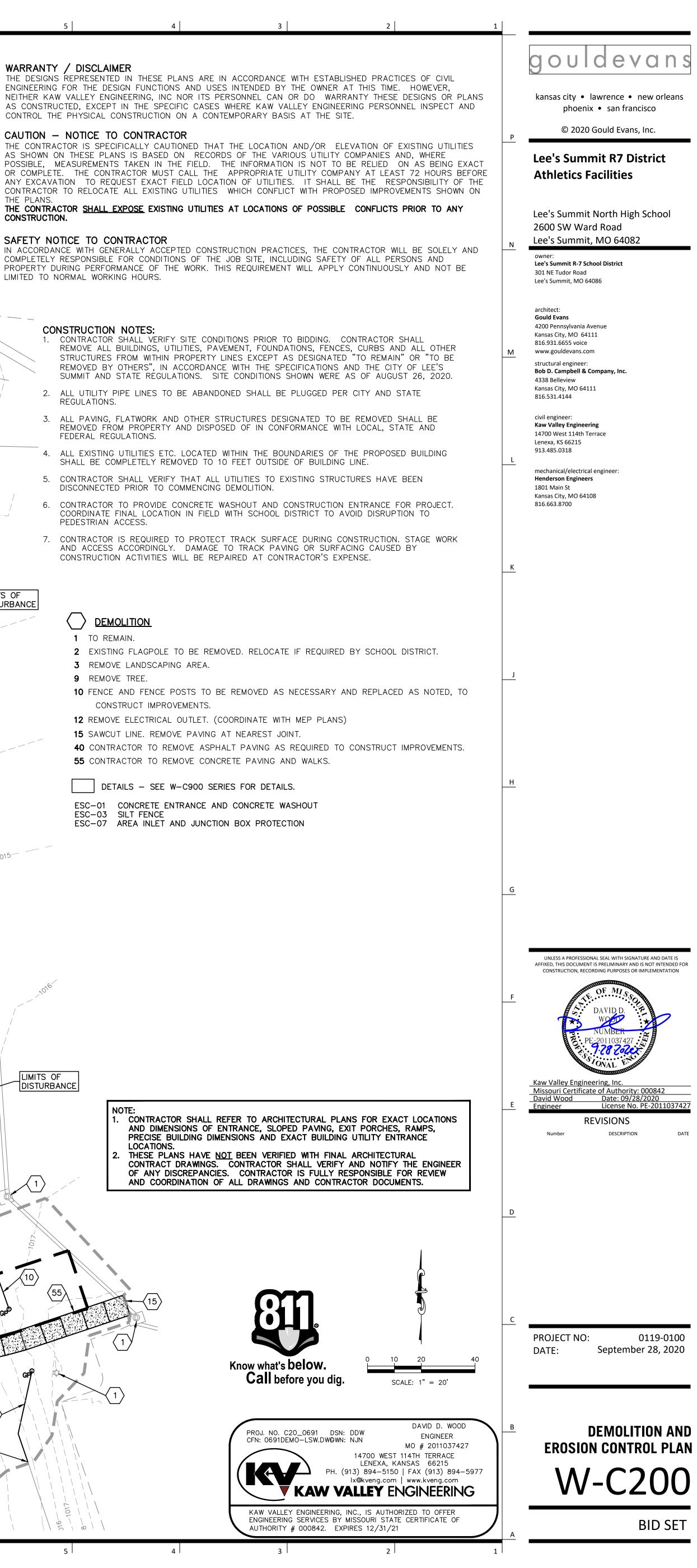
3 REMOVE LANDSCAPING AREA.

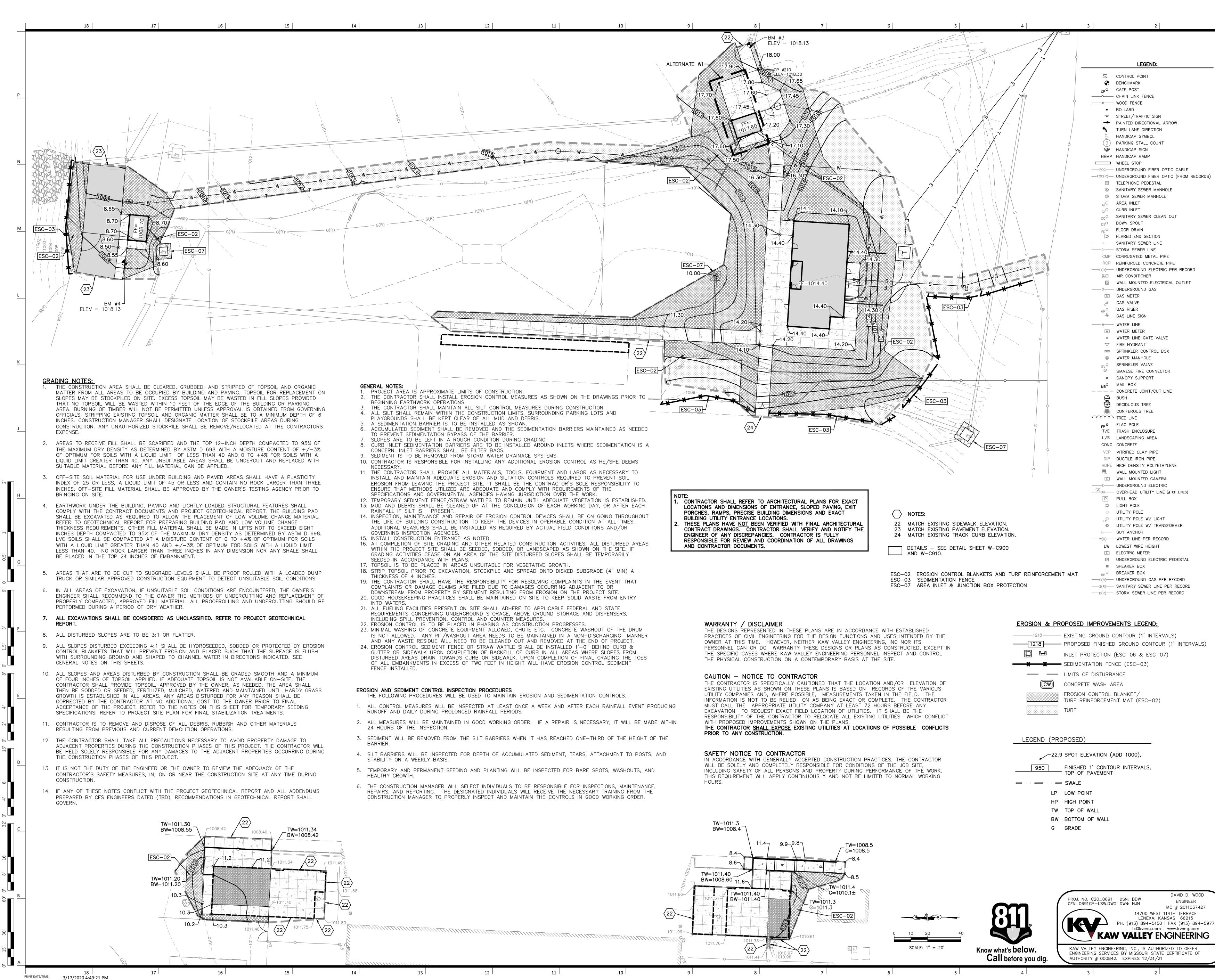
CONSTRUCT IMPROVEMENTS.

1 TO REMAIN.

5

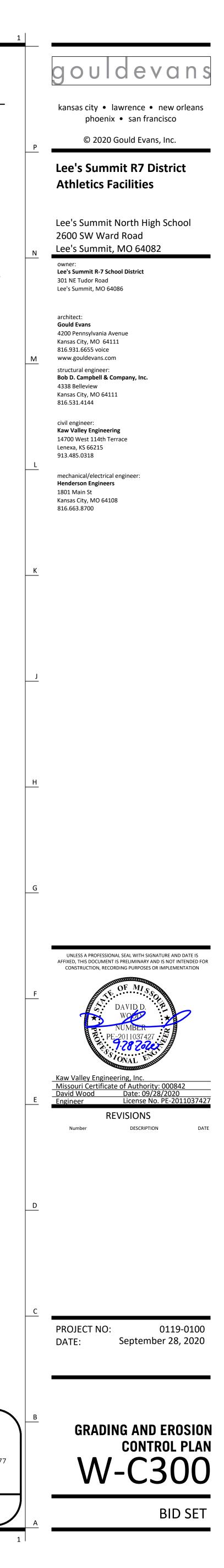
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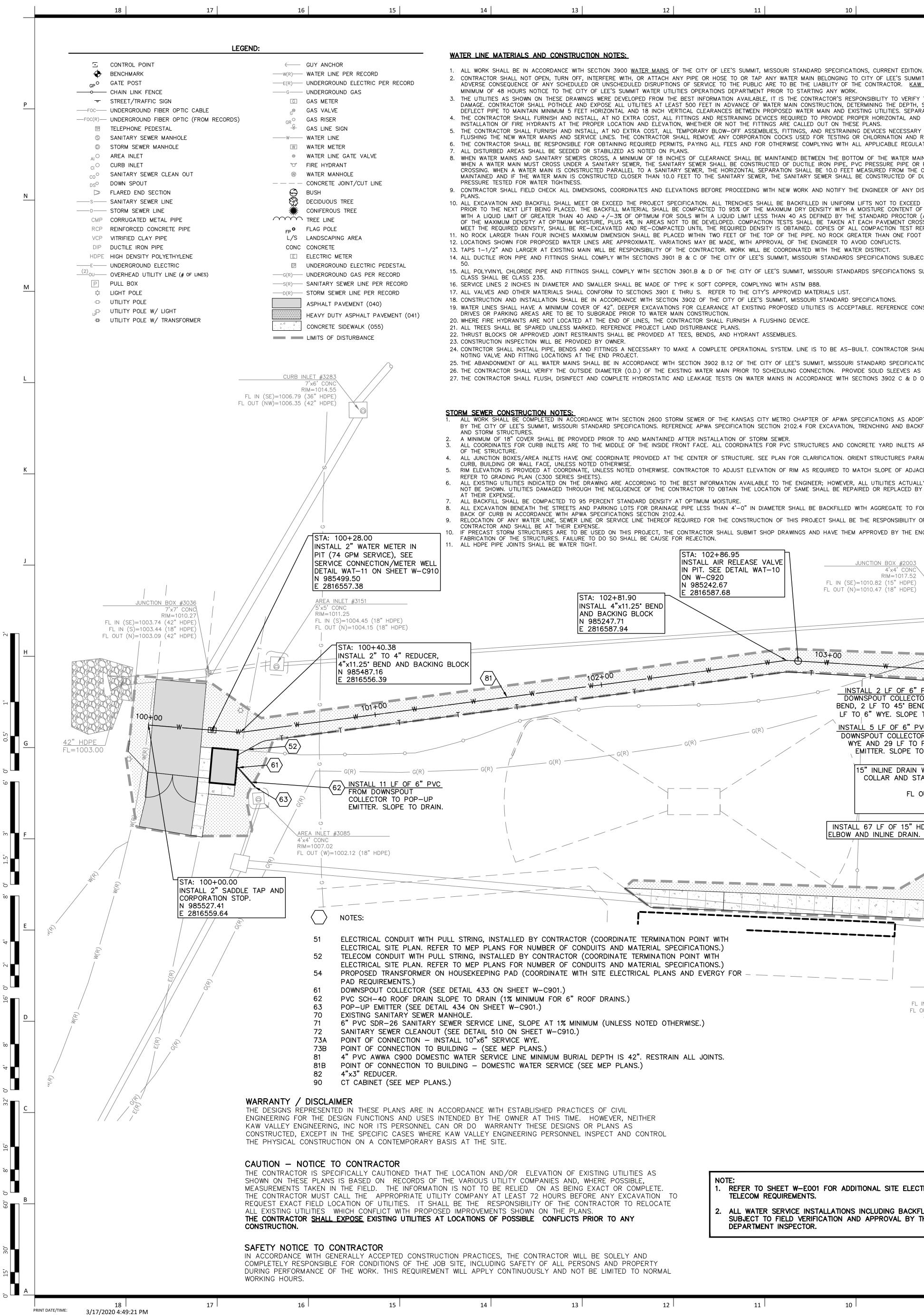




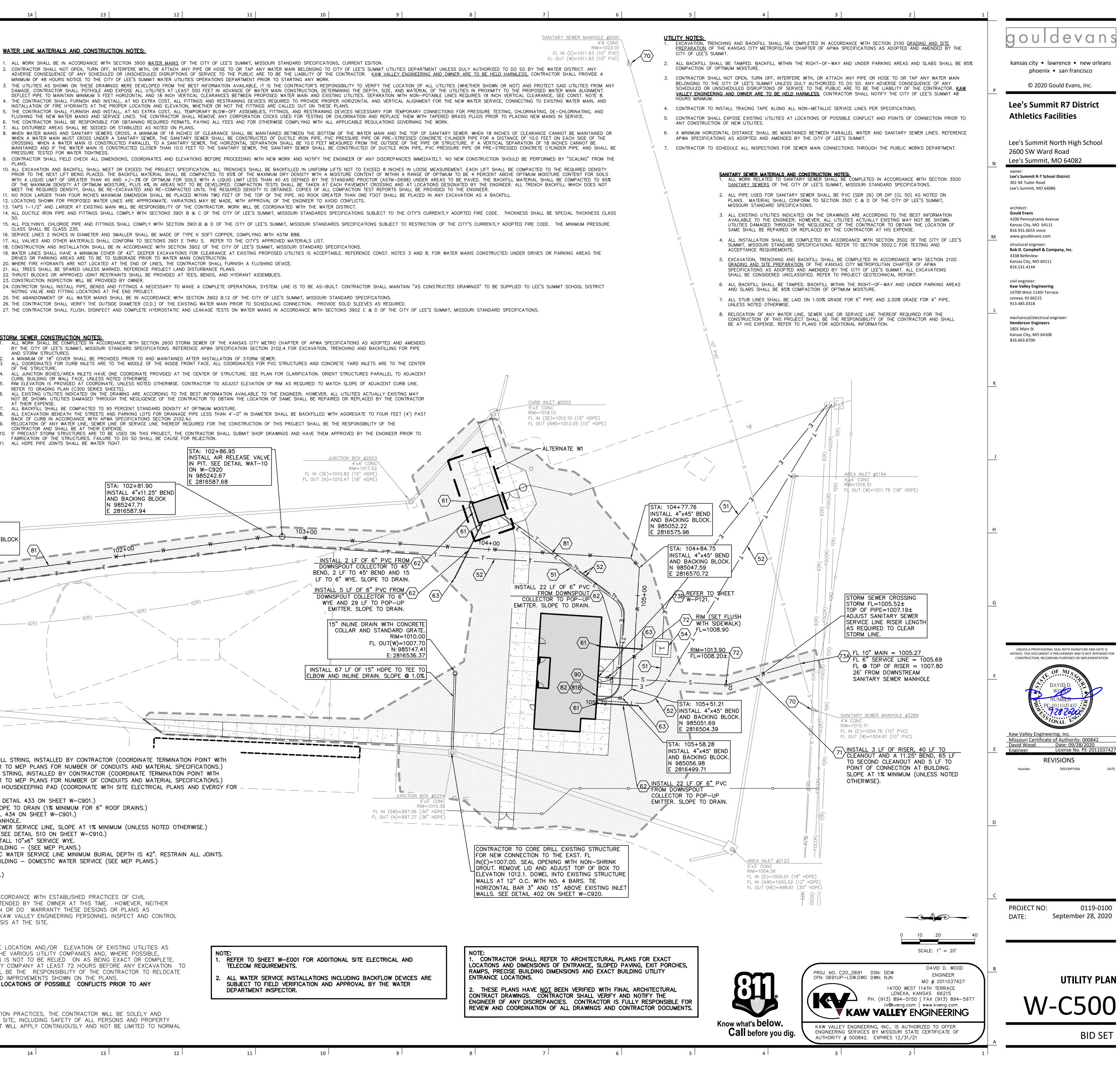
	EXISTING GROUND CONTOUR (1' INTERVALS) PROPOSED FINISHED GROUND CONTOUR (1' INTERVALS
	INLET PROTECTION (ESC-06 & ESC-07)
- X - X	• SEDIMENTATION FENCE (ESC-03)
	LIMITS OF DISTURBANCE
CW	CONCRETE WASH AREA
	EROSION CONTROL BLANKET/ TURF REINFORCEMENT MAT (ESC-02)
	TURF

ITRACTOR	22.9	9 SPOT ELEVATION (ADD 1000),
HE WORK. WORKING	950	FINISHED 1' CONTOUR INTERVALS, TOP OF PAVEMENT
	· · · ·	SWALE
	LP	LOW POINT
	HP	HIGH POINT
	TW	TOP OF WALL
	BW	BOTTOM OF WALL
	G	GRADE



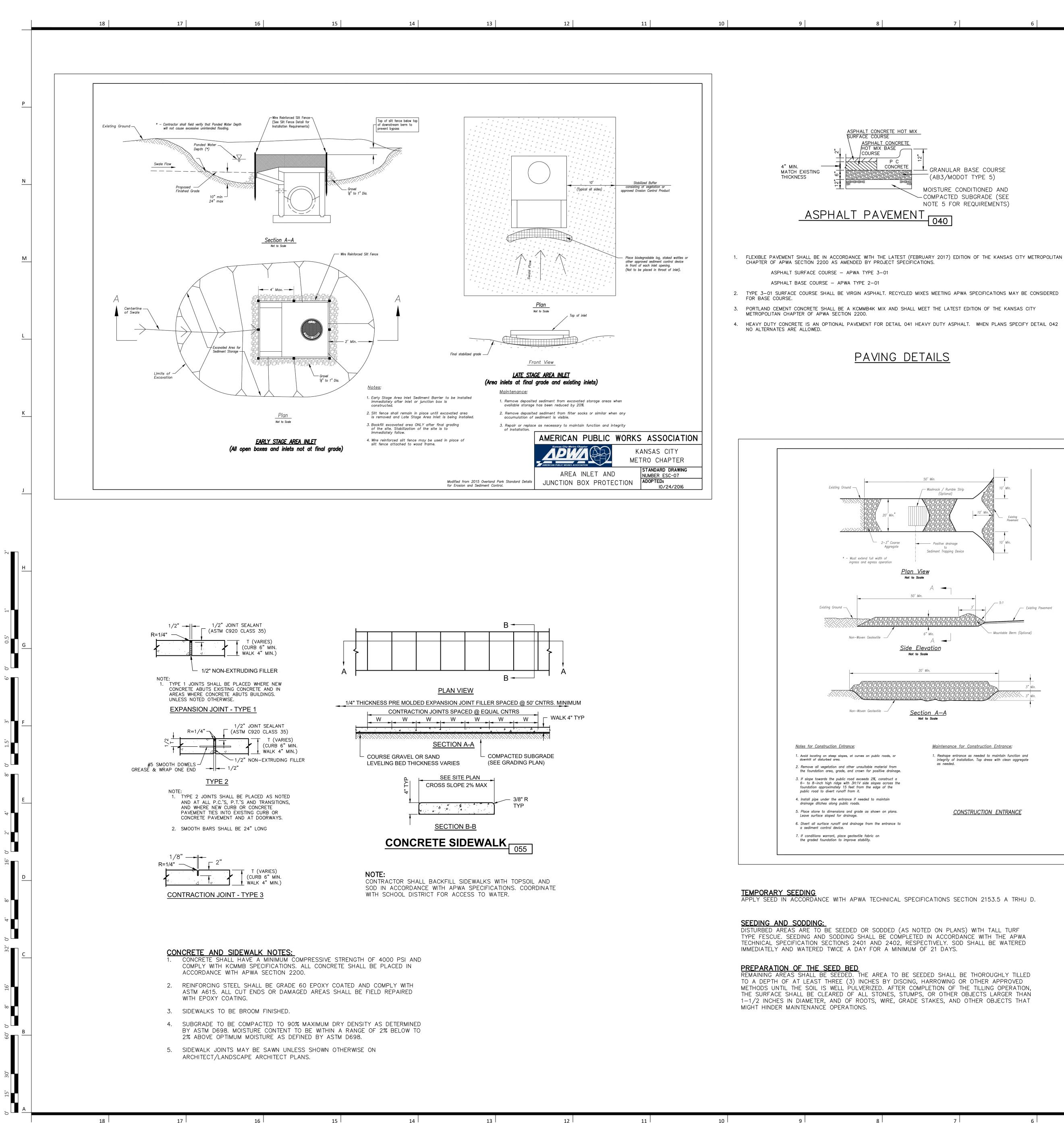


SHOWN ON THESE DRAWINGS WERE DEVELOPED FROM THE BEST INFO CTOR SHALL POTHOLE AND EXPOSE ALL UTILITIES AT LEAST 500 FEE MAINTAIN MINIMUM 5 FEET HORIZONTAL AND 18 INCH VERTICAL CLEA SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL FITTINGS AN	RMATION AVAILABLE, IT IS THE CONTRACT T IN ADVANCE OF WATER MAIN CONSTRUC RANCES BETWEEN PROPOSED WATER MAIN ID RESTRAINING DEVICES REQUIRED TO PR	OR'S RESPONSIBILITY TO VERIFY THE L CTION, DETERMINING THE DEPTH, SIZE, N AND EXISTING UTILITIES. SEPARATION OVIDE PROPER HORIZONTAL AND VERTI	AND MATERIAL OF THE UTILITI WITH NON-POTABLE LINES RE	ES IN PROXIMITY TO THE EQUIRES 18 INCH VERTIC
FIRE HYDRANTS AT THE PROPER LOCATION AND ELEVATION, WHETHEI SHALL FURNISH AND INSTALL, AT NO EXTRA COST, ALL TEMPORARY W WATER MAINS AND SERVICE LINES. THE CONTRACTOR SHALL REMO SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS, PAYING REAS SHALL BE SEEDED OR STABILIZED AS NOTED ON PLANS.	BLOW-OFF ASSEMBLIES, FITTINGS, AND R VE ANY CORPORATION COCKS USED FOR	ESTRAINING DEVICES NECESSARY FOR TESTING OR CHLORINATION AND REPLAC	CE THEM WITH TAPERED BRAS	
NS AND SANITARY SEWERS CROSS, A MINIMUM OF 18 INCHES OF CLE AIN MUST CROSS UNDER A SANITARY SEWER, THE SANITARY SEWER A WATER MAIN IS CONSTRUCTED PARALLEL TO A SANITARY SEWER, " IF THE WATER MAIN IS CONSTRUCTED CLOSER THAN 10.0 FEET TO TH O FOR WATER TIGHTNESS.	SHALL BE CONSTRUCTED OF DUCTILE IRO THE HORIZONTAL SEPARATION SHALL BE 1 HE SANITARY SEWER, THE SANITARY SEWE	N PIPE, PVC PRESSURE PIPE OR PRE-5 0.0 FEET MEASURED FROM THE OUTSID R SHALL BE CONSTRUCTED OF DUCTILE	STRESSED CONCRETE CYLINDE DE OF THE PIPE OR STRUCTUR E IRON PIPE, PVC PRESSURE F	R PIPE FOR A DISTANCE RE. IF A VERTICAL SEPAI PIPE OR PRE-STRESSED
LL FIELD CHECK ALL DIMENSIONS, COORDINATES AND ELEVATIONS BE AND BACKFILL SHALL MEET OR EXCEED THE PROJECT SPECIFICATION. XT LIFT BEING PLACED. THE BACKFILL MATERIAL SHALL BE COMPACT 11T OF GREATER THAN 40 AND $+/-3\%$ OF OPTIMUM FOR SOILS WITH	ALL TRENCHES SHALL BE BACKFILLED IN ED TO 95% OF THE MAXIMUM DRY DENSIT A LIQUID LIMIT LESS THAN 40 AS DEFINE	UNIFORM LIFTS NOT TO EXCEED 8 INC Y WITH A MOISTURE CONTENT OF WITH D BY THE STANDARD PROCTOR (ASTM-	CHES IN LOOSE MEASUREMENT. IN A RANGE OF OPTIMUM TO 	. EACH LIFT SHALL BE C BE 4 PERCENT ABOVE C PAVED. THE BACKFILL N
DENSITY AT OPTIMUM MOISTURE, PLUS 4%, IN AREAS NOT TO BE DE ED DENSITY, SHALL BE RE-EXCAVATED AND RE-COMPACTED UNTIL 1 THAN FOUR INCHES MAXIMUM DIMENSION SHALL BE PLACED WITHIN IN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY IN LARGER AT EXISTING MAIN WILL BE RESPONSIBILITY OF THE CONTRA	HE REQUIRED DENSITY IS OBTAINED. COPI TWO FEET OF THE TOP OF THE PIPE. NO BE MADE, WITH APPROVAL OF THE ENGINI	ES OF ALL COMPACTION TEST REPORTS ROCK GREATER THAN ONE FOOT SHALI EER TO AVOID CONFLICTS.	S SHALL BE PROVIDED TO THE	E ENGINEER.
PIPE AND FITTINGS SHALL COMPLY WITH SECTIONS 3901 B & C OF HLORIDE PIPE AND FITTINGS SHALL COMPLY WITH SECTION 3901.B & CLASS 235. INCHES IN DIAMETER AND SMALLER SHALL BE MADE OF TYPE K SOF	D OF THE CITY OF LEE'S SUMMIT, MISSOU			
OTHER MATERIALS SHALL CONFORM TO SECTIONS 3901 E THRU S. ID INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 3902 OF LL HAVE A MINIMUM COVER OF 42". DEEPER EXCAVATIONS FOR CLEA NG AREAS ARE TO BE TO SUBGRADE PRIOR TO WATER MAIN CONSTR	REFER TO THE CITY'S APPROVED MATERIA THE CITY OF LEE'S SUMMIT, MISSOURI STA RANCE AT EXISTING PROPOSED UTILITIES UCTION.	ANDARD SPECIFICATIONS.	OTES 3 AND 8. FOR WATER M	IAINS CONSTRUCTED UNE
ANTS ARE NOT LOCATED AT THE END OF LINES, THE CONTRACTOR S BE SPARED UNLESS MARKED. REFERENCE PROJECT LAND DISTURBAN OR APPROVED JOINT RESTRAINTS SHALL BE PROVIDED AT TEES, BENI SPECTION WILL BE PROVIDED BY OWNER. LINSTALL PIPE, BENDS AND FITTINGS A NECESSARY TO MAKE A COM	ICE PLANS. DS, AND HYDRANT ASSEMBLIES.	BE AS-BUILT CONTRACTOR SHALL MA	AINTAIN "AS CONSTRUCTED DR	AWINGS" TO BE SUPPLIE
D FITTING LOCATIONS AT THE END PROJECT. IT OF ALL WATER MAINS SHALL BE IN ACCORDANCE WITH SECTION 3 SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATE SHALL FLUSH, DISINFECT AND COMPLETE HYDROSTATIC AND LEAKAG	902 B.12 OF THE CITY OF LEE'S SUMMIT, R MAIN PRIOR TO SCHEDULING CONNECTIO	MISSOURI STANDARD SPECIFICATIONS. DN. PROVIDE SOLID SLEEVES AS REQU	IIRED.	
STRUCTION NOTES:				
BE COMPLETED IN ACCORDANCE WITH SECTION 2600 STORM SEWER LEE'S SUMMIT, MISSOURI STANDARD SPECIFICATIONS. REFERENCE APW CTURES. 'COVER SHALL BE PROVIDED PRIOR TO AND MAINTAINED AFTER INS' FOR CURB INLETS ARE TO THE MIDDLE OF THE INSIDE FRONT FACE.	A SPECIFICATION SECTION 2102.4 FOR EXC	CAVATION, TRENCHING AND BACKFILLING	G FOR PIPE	
RE. XES/AREA INLETS HAVE ONE COORDINATE PROVIDED AT THE CENTER R WALL FACE, UNLESS NOTED OTHERWISE. PROVIDED AT COORDINATE, UNLESS NOTED OTHERWISE. CONTRACTOR G PLAN (C300 SERIES SHEETS).	TO ADJUST ELEVATION OF RIM AS REQU	RED TO MATCH SLOPE OF ADJACENT C	CURB LINE.	//
ITIES INDICATED ON THE DRAWING ARE ACCORDING TO THE BEST INF ITILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR ALL BE COMPACTED TO 95 PERCENT STANDARD DENSITY AT OPTIMUM BENEATH THE STREETS AND PARKING LOTS FOR DRAINAGE PIPE LESS	TO OBTAIN THE LOCATION OF SAME SHALL MOISTURE.	BE REPAIRED OR REPLACED BY THE	CONTRACTOR	
I ACCORDANCE WITH APWA SPECIFICATIONS SECTION 2102.4J. NY WATER LINE, SEWER LINE OR SERVICE LINE THEREOF REQUIRED FO SHALL BE AT THEIR EXPENSE. M STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTO THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION DINTS SHALL BE WATER TIGHT.	R SHALL SUBMIT SHOP DRAWINGS AND H			
STA: 10 INSTALL	2+86.95 AIR RELEASE VALVE SEE DETAIL WAT-10	JUNCTION BOX #2003 4'x4' CONC RIM=1017.52		
STA: 102+81.90 INSTALL 4"x11.25" BEND	42.67	EL IN (SE)=1010.82 (15" HDPE) OUT (N)=1010.47 (18" HDPE)		P A P A P A P A P A P A P A P A P A P A
AND BACKING BLOCK N 985247.71 E 2816587.94				H H
102+00		+00 W	-WW	104+00
102+00 W-1 T	0	INSTALL 2 LF OF 6" PVC DOWNSPOUT COLLECTOR TO BEND, 2 LF TO 45' BEND AN	0 45 02	T - T
	G(R)	LF TO 6" WYE. SLOPE TO D INSTALL 5 LF OF 6" PVC FR DOWNSPOUT COLLECTOR TO	ROM 62 63	<u>(52)</u> ⊪
G(R) $G(R)$		WYE AND 29 LF TO POP- EMITTER. SLOPE TO DRA 15" INLINE DRAIN WITH	AIN.	
		FL OUT(W N	IM=1010.00 V)=1007.70 I:985147.41	
		INSTALL 67 LF OF 15" HDPE ELBOW AND INLINE DRAIN. SLOP		
			J. 14 7 18 1	
LED BY CONTRACTOR (COORDINATE TERMINATION POINT				
FOR NUMBER OF CONDUITS AND MATERIAL SPECIFICATION D BY CONTRACTOR (COORDINATE TERMINATION POINT W FOR NUMBER OF CONDUITS AND MATERIAL SPECIFICATION AD (COORDINATE WITH SITE ELECTRICAL PLANS AND EVEN	NS.) ITH NS.)			
HEET W-C901.) MINIMUM FOR 6" ROOF DRAINS.) V-C901.)			JUNCTION BOX #2254 5'x5' CONC RIM=1010.38 V)=997.56 (30" HDPE)	
, SLOPE AT 1% MINIMUM (UNLESS NOTED OTHERWISE.) N SHEET W-C910.)			N)=997.37 (36" HDPE)	
CE WYE. P PLANS.) LINE MINIMUM BURIAL DEPTH IS 42". RESTRAIN ALL JO C WATER SERVICE (SEE MEP PLANS.)	NTS.			CONTRACTOR T FOR NEW CONN IN(E)=1007.00.
				GROUT. REMOV ELEVATION 101 WALLS AT 12" HORIZONTAL BA
STABLISHED PRACTICES OF CIVIL WNER AT THIS TIME. HOWEVER, NEITHER ITY THESE DESIGNS OR PLANS AS IEERING PERSONNEL INSPECT AND CONTROL				WALLS. SEE DE
DR ELEVATION OF EXISTING UTILITIES AS Y COMPANIES AND, WHERE POSSIBLE, ELIED ON AS BEING EXACT OR COMPLETE. TAST 72 HOURS BEFORE ANY EXCAVATION TO	NOTE: 1. REFER TO SHEET W-E001 F TELECOM REQUIREMENTS.	OR ADDITIONAL SITE ELECTRICA	L AND	NOTE: 1. CONTRACTOR LOCATIONS AND I RAMPS PRECISE
NSIBILITY OF THE CONTRACTOR TO RELOCATE SHOWN ON THE PLANS. SSIBLE CONFLICTS PRIOR TO ANY		LATIONS INCLUDING BACKFLOW TION AND APPROVAL BY THE W		RAMPS, PRECISE ENTRANCE LOCAT 2. THESE PLANS CONTRACT DRAW
HE CONTRACTOR WILL BE SOLELY AND SAFETY OF ALL PERSONS AND PROPERTY TINUOUSLY AND NOT BE LIMITED TO NORMAL			f	ENGINEER OF AN' REVIEW AND COO
THREE TO NOT DE LIMITED TO NORMAL				



OR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT DIMENSIONS OF ENTRANCE, SLOPED PAVING, EXIT PORCHES, BUILDING DIMENSIONS AND EXACT BUILDING UTILITY TIONS. NS HAVE NOT BEEN VERIFIED WITH FINAL ARCHITECTURAL WINGS. CONTRACTOR SHALL VERIFY AND NOTIFY THE





APPLY SEED IN ACCORDANCE WITH APWA TECHNICAL SPECIFICATIONS SECTION 2153.5 A TRHU D.

7

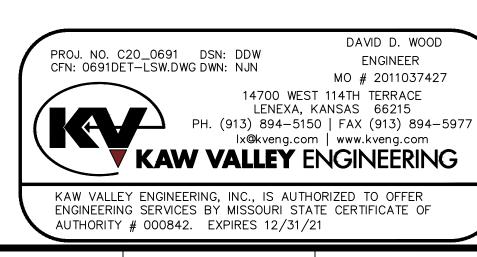
PLACEMENT OF SEED

5

SEEDING MAY BE ACCOMPLISHED BY HYDRAULIC TYPE SEEDERS OR BROADCAST-TYPE SEEDERS. ALL SEED SOWN BY BROADCAST-TYPE SEEDERS SHALL BE "RAKED IN" OR OTHERWISE COVERED WITH SOIL TO A DEPTH OF AT LEAST ONE-QUARTER (1/4) INCH AND ROLLED TO OBTAIN A FIRM SEED BED. WATER SHALL BE APPLIED WHEN NECESSARY. SEEDED AREAS SHALL BE COMPACTED AND MULCHED IN ACCORDANCE WITH APWA SPECIFICATION SECTION 2401.3 D & E. SEEDED ON ALL SLOPES 4:1 OR STEEPER SHALL BE PROTECTED WITH A SHORT TERM DEGRADABLE EROSION CONTROL BLANKET CONSISTING OF SINGLE NET AND STRAW BLANKET. BLANKET SHALL BE SECURED TO SURFACE IN ACCORDANCE WITH MANUFACTURERS

RECOMMENDATIONS. CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE, PROTECTION AND REPAIR OF TEMPORARY AND PERMANENT SEED AREAS, REFERENCE APWA SECTION 2401.4. COORDINATE PLACEMENT OF INTERMEDIATE EROSION CONTROL MEASURES AS REQUIRED TO REDUCE CONCENTRATED FLOWS FROM RUNOFF.

4

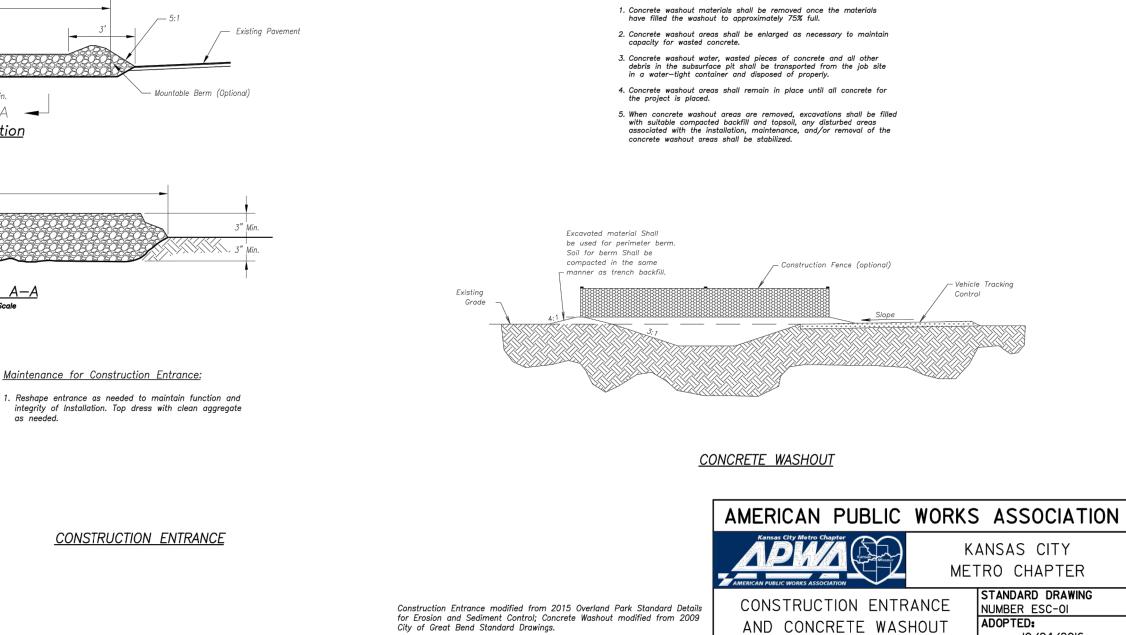


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3

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6



50' Min. 10' Min. /— Washrack / Rumble Strip Notes for Concrete Washout: (Optional) Concrete washout areas shall be installed prior to any concrete placement on site. 2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area. Existing Pavement 3. Vehicle tracking control is required at the access point to all concrete washout areas. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs. 10' Min. Positive drainage A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils. Sediment Trapping Device <u>Plan View</u> Not to Scale $A \rightarrow$ Maintenance for Concrete Washout: 50' Min. 6" Min. A 🗕 Side Elevation Not to Scale 20' Min. <u>Section A–A</u> Not to Scale

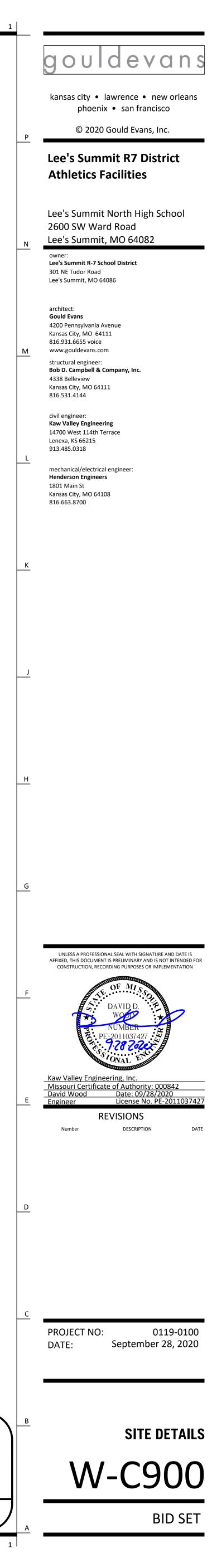
- GRANULAR BASE COURSE (AB3/MODOT TYPE 5) MOISTURE CONDITIONED AND - COMPACTED SUBGRADE (SEE NOTE 5 FOR REQUIREMENTS)

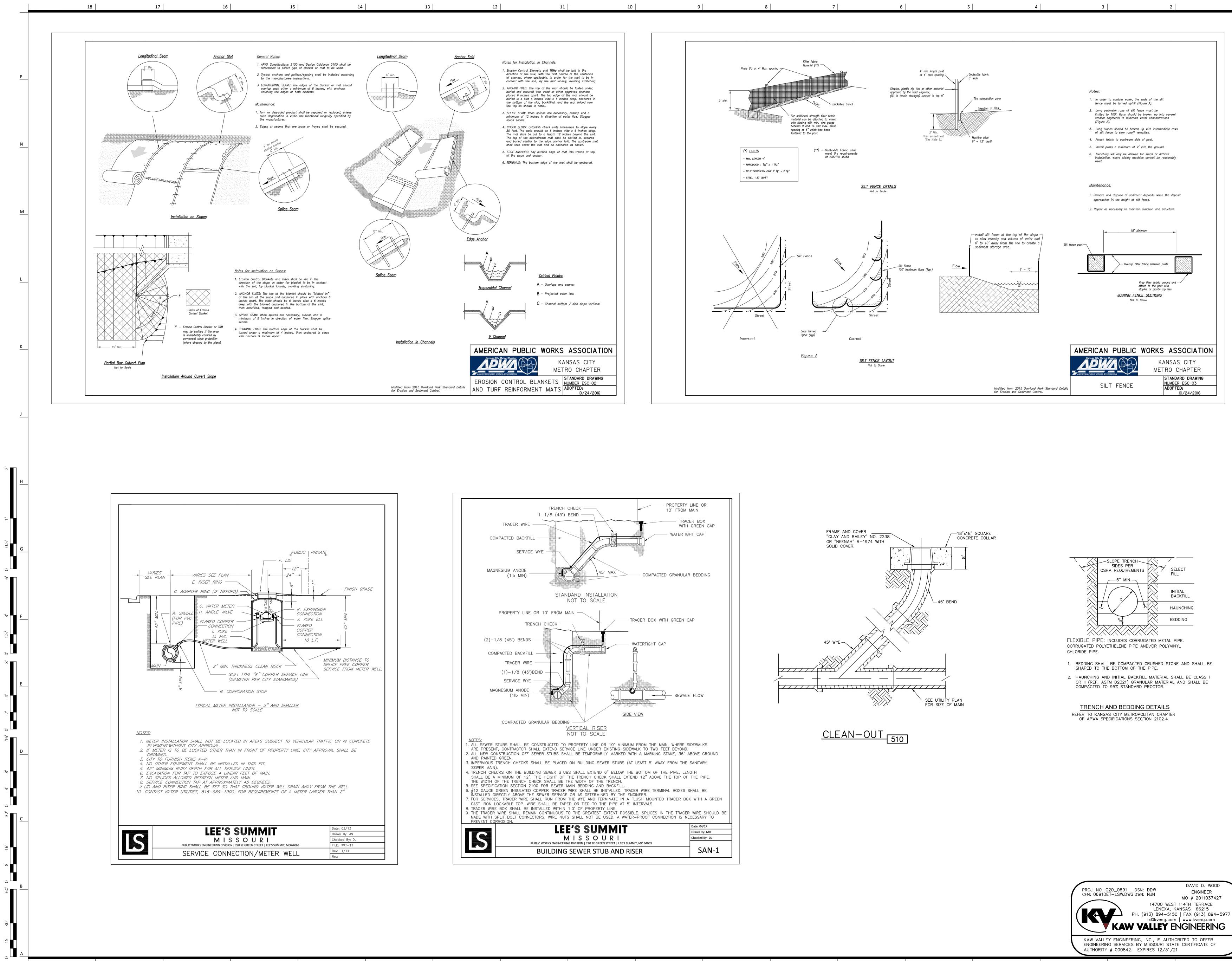
MOISTURE CONDITIONED AND COMPACTED SUBGRADE. -NON-WOVEN GEOTEXTILE

AGGREGATE SURFACE

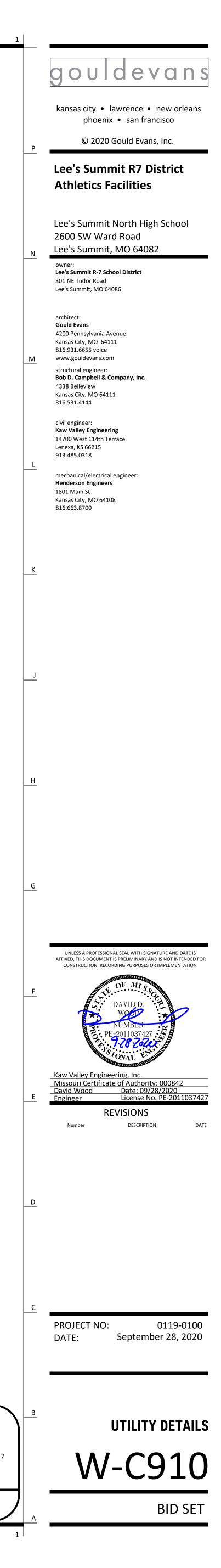
6" MINIMUM, 3/4" CLEAN COARSE AGGREGATE.

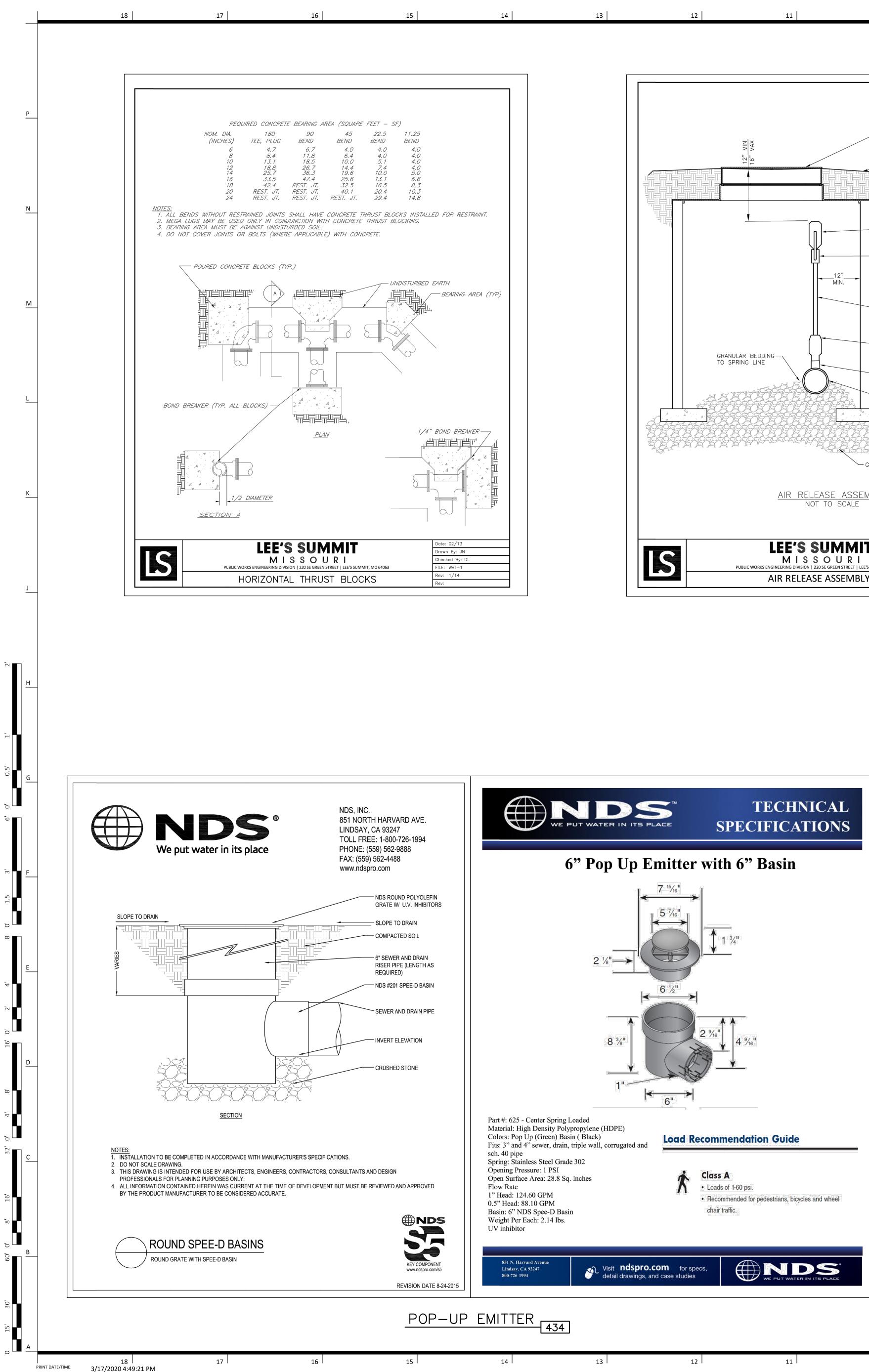
REFER TO SHEET W-C300 FOR FINAL GRADE ELEVATIONS.



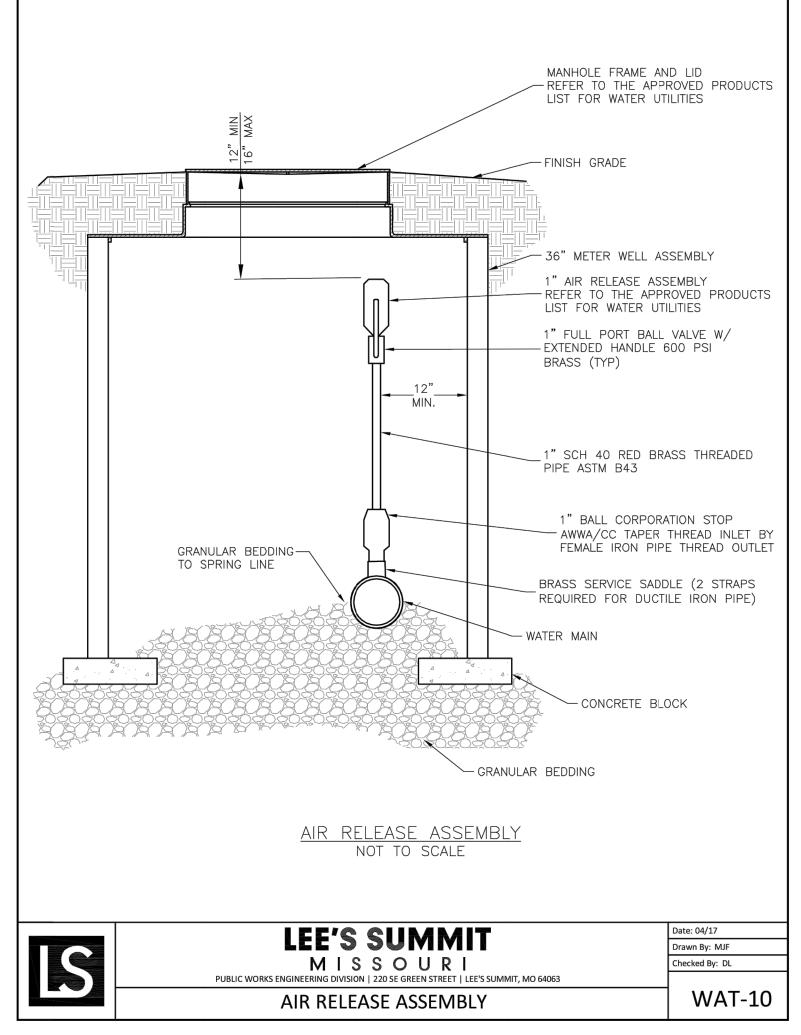


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INLET NOTES

GENERAL

CONCRETE

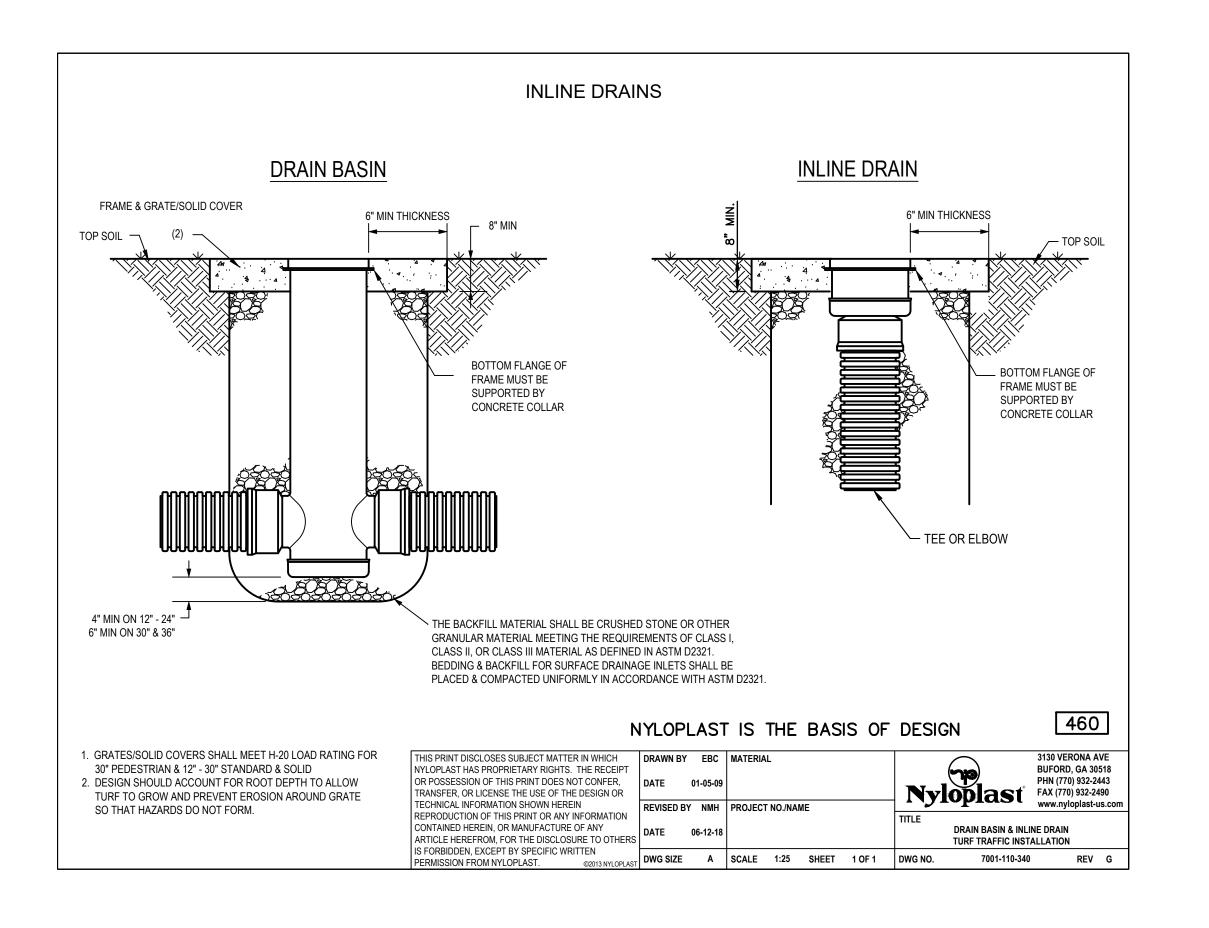
- TO PROVIDE SMOOTH FLOW.
- FOURTEEN. BLOCK OR BRICK MAY BE USED IN ANY BOX WHERE "H" IS 5' OR

LESS.

- REINFORCING STEEL
- IN LENGTH.
- SUPPORTS @ 3'-0" MAXIMUM SPACING.
- CONSTRUCTION
- CURING COMPOUND.

NOTES: 1) FOR ALL DEPTHS OF COVER LESS THAN TWO (2) FEET, PIPE MUST BE SCHEDULE 40 PVC. FOR DEPTHS OF COVER GREATER THAN TWO (2) FEE FLEXIBLE PIPE MAY BE USED. REFER TO SPECIFICATIONS FOR ALLOWABLE PIPE TYPES.

- A WATERTIGHT CONNECTION SHALL BE MAINTAINED WITH ANY TRANSITION FROM SCHEDULE 40 PVC PIPE TO ANY OTHER PIPE TYPE. 3) THE DOWNSPOUT COLLECTOR DRAIN SHALL BE INSTALLED BEFORE THE
- DOWNSPOUTS ARE INSTALLED ON THE BUILDING. SITEWORK CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK TO AND INCLUDING THE RODENT SCREEN. BUILDING CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION AT THE POINT OF THE RODENT SCREEN.



JUNCTION BOX YARD INLETS AND CURB

1. ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE. IF PRE-CAST STRUCTURES ARE USED FOR PUBLICLY FINANCED, MAINTAINED OR ADMINISTERED CONSTRUCTION, THE TOPS SHALL BE POURED IN PLACE AND THE WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION, OR AS DIRECTED BY THE CITY ENGINEER. 2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER. 3. DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

4. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED. PRECASTER SHALL PROVIDE DESIGN CALCULATIONS FOR DEEP STRUCTURES TO ENGINEER PRIOR TO CONSTRUCTING BOX.

5. CONCRETE USED IN THIS WORK SHALL BE CLASS "A" CONCRETE (AE) THROUGHOUT, AND SHALL MEET THE REQUIREMENTS OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS. 6. CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF STANDARD SPECIFICATIONS FOR MCIB, LATEST EDITION, EXCEPT AS MODIFIED IN THE APWA TECHNICAL SPECIFICATIONS. 7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS

8. BEVEL ALL EXPOSED EDGES WITH $\frac{3}{4}$ " TRIANGULAR MOLDING. 9. 8" SOLID CONCRETE BLOCK OR BRICK MAY BE USED IN WALLS IN LIEU OF POURED CONCRETE WHERE NEITHER "H"+"L" NOR "H"+"W" (IN FEET) EXCEED

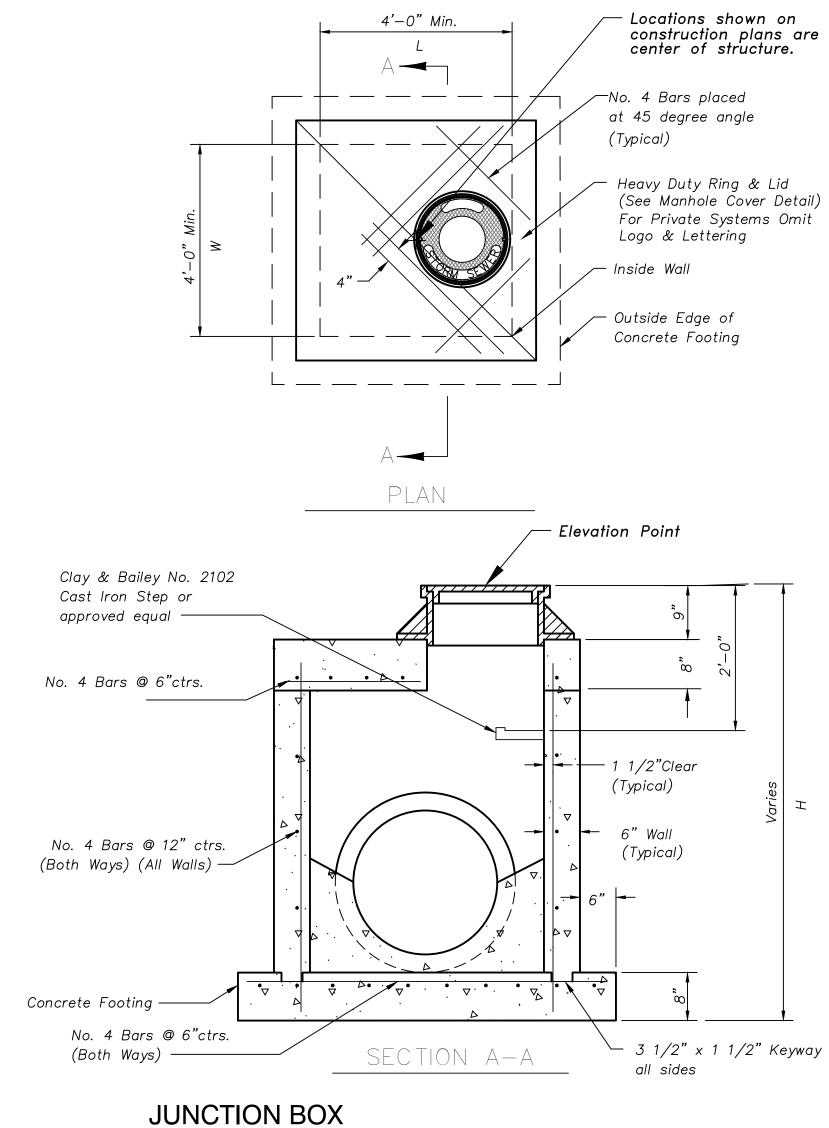
10. ALL CRUSHED STONE USED AS AGGREGATE FOR CONCRETE CONSTRUCTION SHALL BE OBTAINED FROM QUARRIES AND BEDS DESIGNATED BY THE MISSOURI DEPARTMENT OF TRANSPORTATION AS MEETING DURABILITY REQUIREMENTS OF KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.

11. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD. 12. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $+/- \frac{1}{8}$ " SHALL BE PERMITTED.

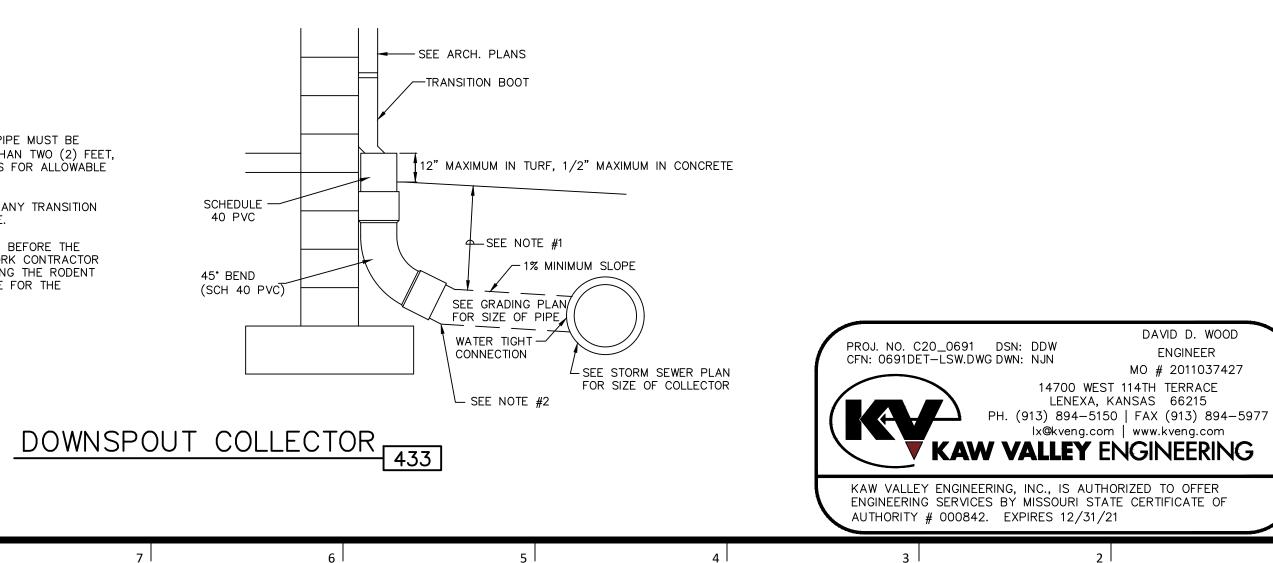
13. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS 14. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR

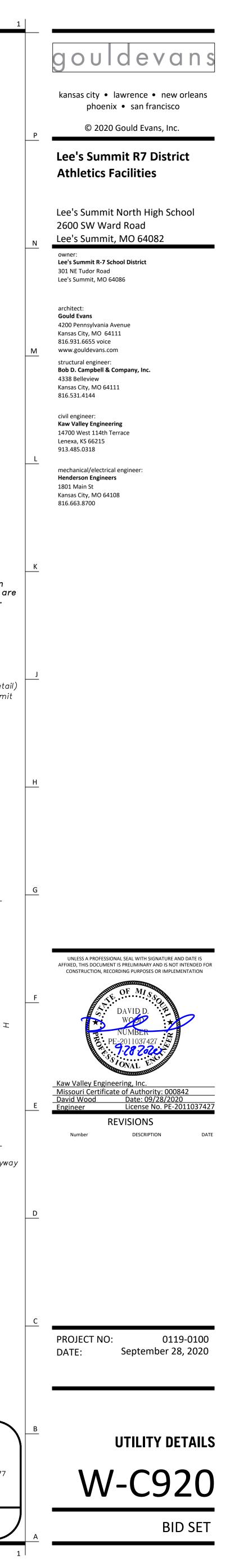
15. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

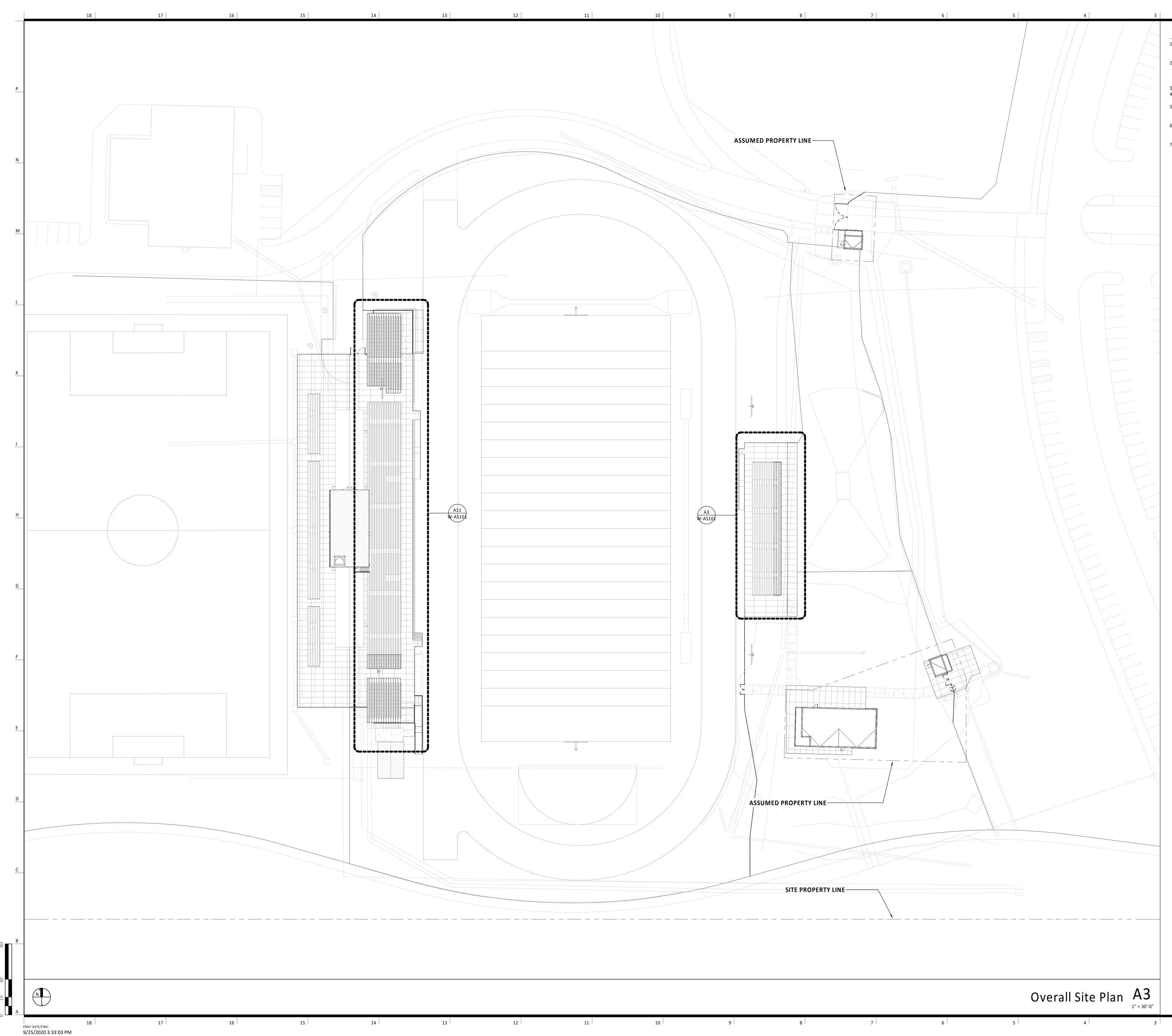
16. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL. AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE 17. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE. 18. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE KANSAS CITY METROPOLITAN CHAPTER OF THE APWA TECHNICAL SPECIFICATIONS.



- 402



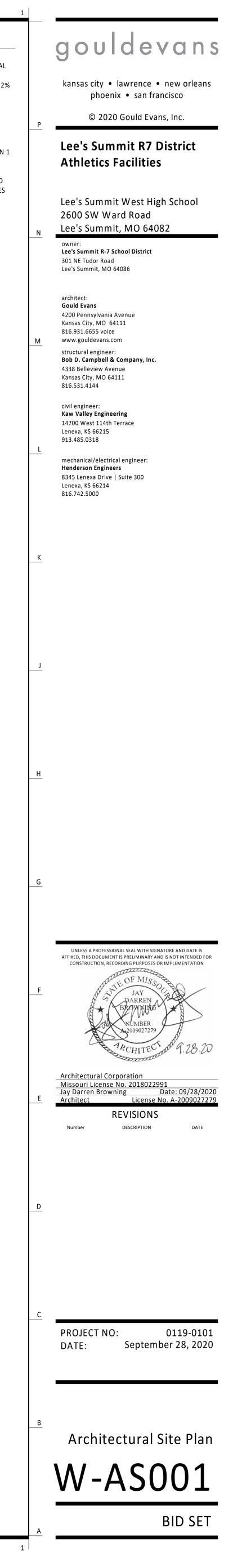


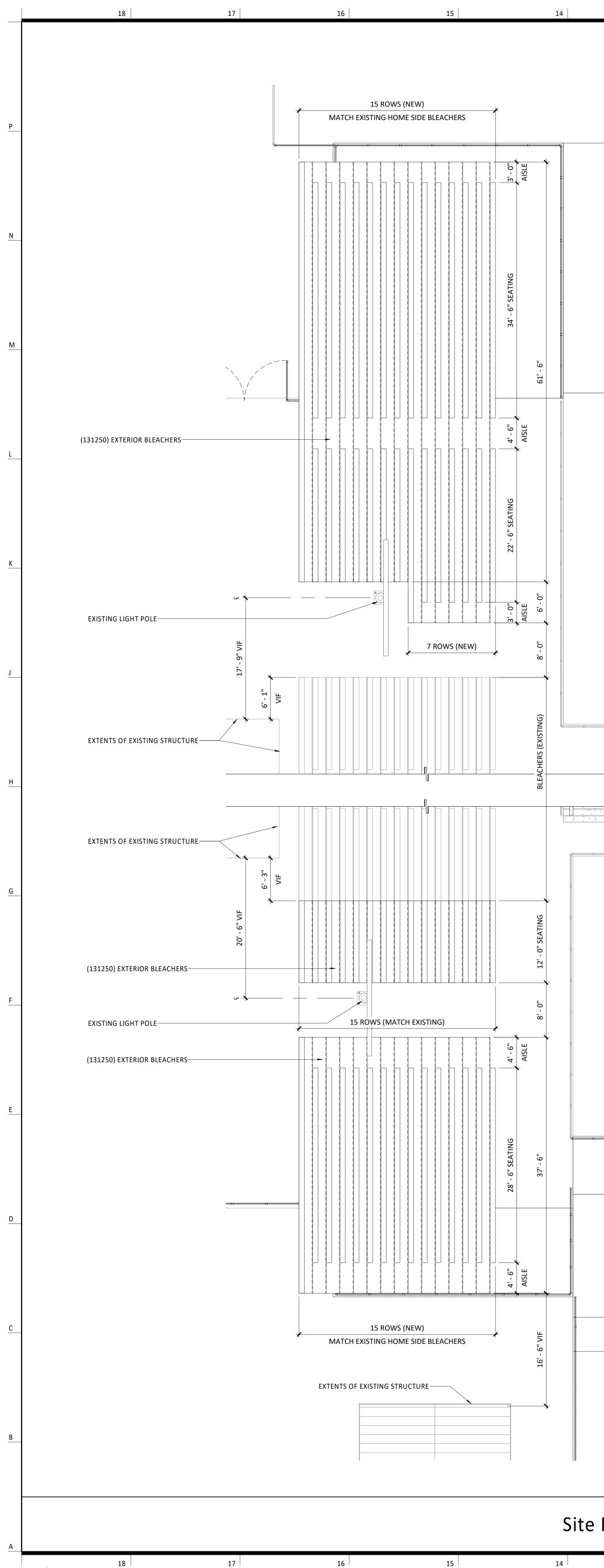


General Notes (Site Plan):

2

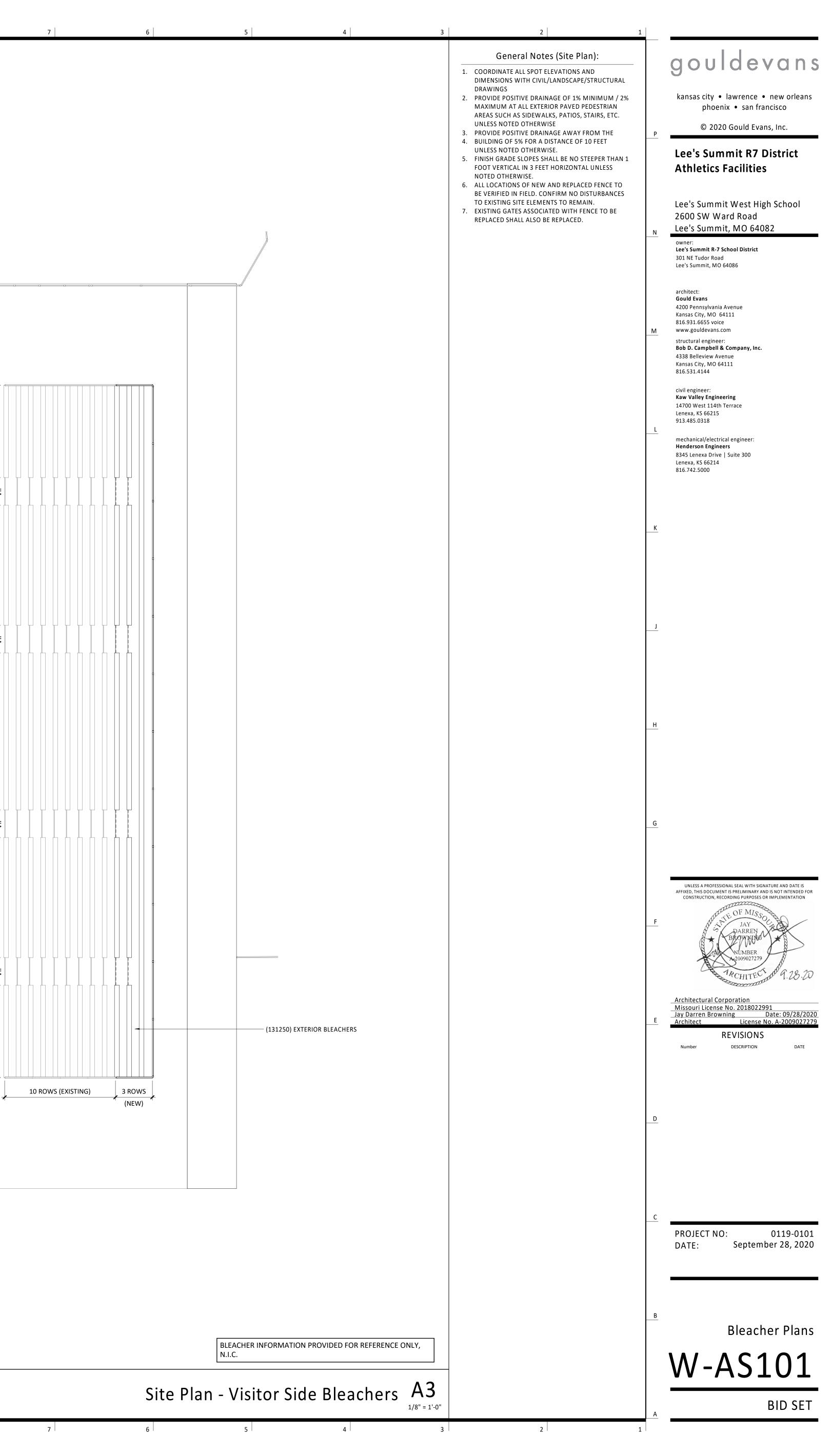
- 1. COORDINATE ALL SPOT ELEVATIONS AND DIMENSIONS WITH CIVIL/LANDSCAPE/STRUCTURAL DRAWINGS 2. PROVIDE POSITIVE DRAINAGE OF 1% MINIMUM / 2%
- MAXIMUM AT ALL EXTERIOR PAVED PEDESTRIAN AREAS SUCH AS SIDEWALKS, PATIOS, STAIRS, ETC.
- UNLESS NOTED OTHERWISE 3. PROVIDE POSITIVE DRAINAGE AWAY FROM THE 4. BUILDING OF 5% FOR A DISTANCE OF 10 FEET
- UNLESS NOTED OTHERWISE. 5. FINISH GRADE SLOPES SHALL BE NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL UNLESS
- NOTED OTHERWISE. 6. ALL LOCATIONS OF NEW AND REPLACED FENCE TO BE VERIFIED IN FIELD. CONFIRM NO DISTURBANCES
- TO EXISTING SITE ELEMENTS TO REMAIN. 7. EXISTING GATES ASSOCIATED WITH FENCE TO BE REPLACED SHALL ALSO BE REPLACED.

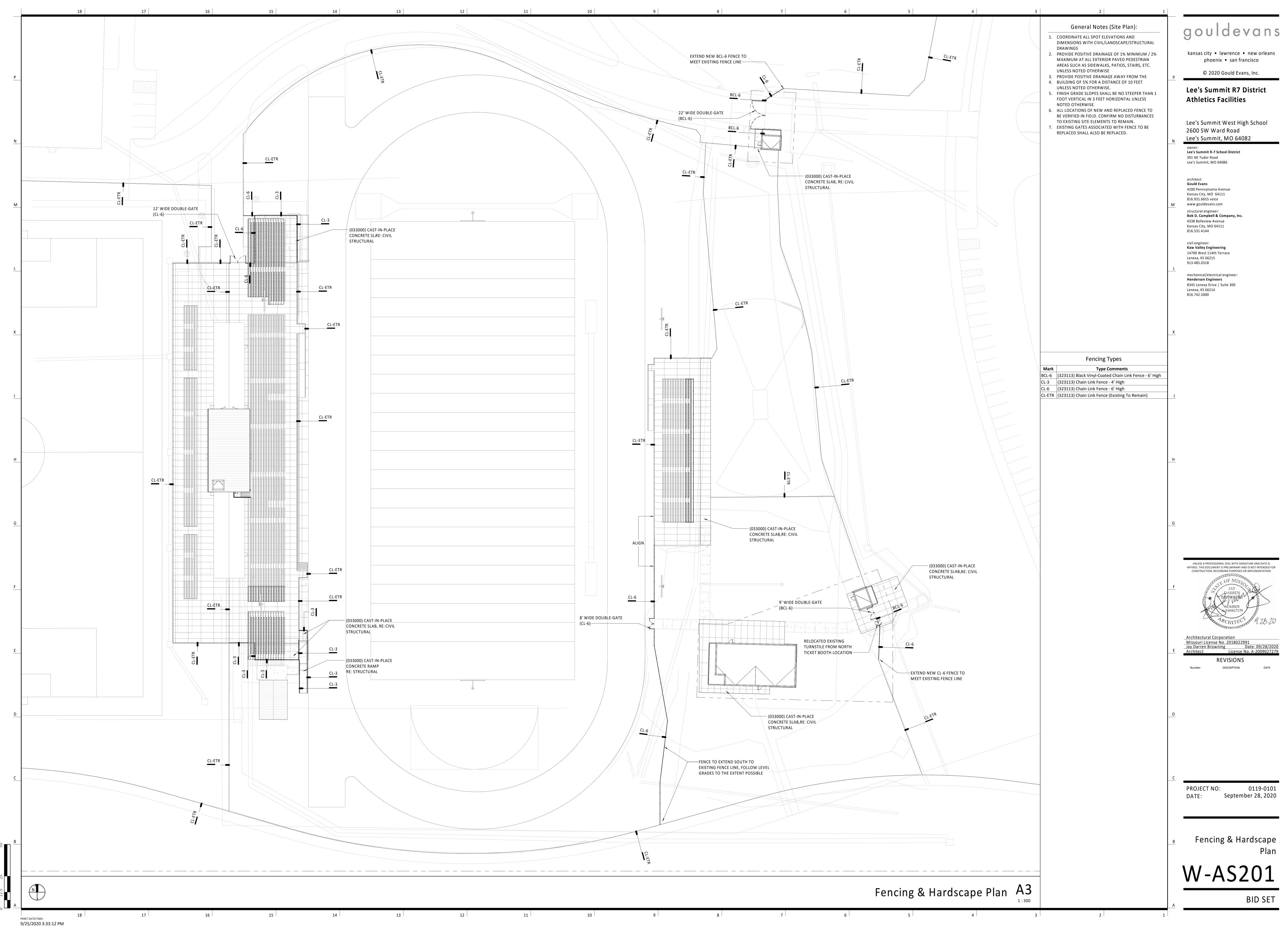




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<u>Р</u> <u>М</u>	А. В. С. С. 2. Str А. В. С. D. Е. 3. Со	combinations of section 1605.3 of the International Building Code.	notify work ectural, the v for ecting on ents of 2-16) ral 7	А. В. С. D. E. F. G. H. I. К.	All structural stee miscellaneous s where plates shi be ASTM A500, AISC 303-05 "C 13th Edition of th All welding shall All exterior steel All bolts not othe AISC Manual of reactions shown account for ecc support. All connections is specifically show connection desig plates or other of shall be complet the state the pro- bear his/her sea All anchor bolts Washers of mini the AISC Steel O Washers shall h shall be welded Design, fabricati recommendation loads given in th load of 200 lbs. reinforcing. All K-series joist the beams with All K-series joist in bond beams. wall on the bear to beams or bea All steel joists st Specifications. where joists are bottom. Joist sw Steel joists shall Pressures Table All openings in s mechanical equi angles (length e point) laid paralle
N L	А. В. С. С. 2. Str А. В. С. D. Е. 3. Со	The contractor shall verify dimensions and conditions before construction and the engineer of any discrepancies, inconsistencies, or difficulties affecting the before proceeding. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on archlin mechanical, or electrical drawings. In the case of work in an existing building contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties aff structural work shall be called to the architect or engineer's attention for directive before proceeding. All design and construction work for this project shall conform to the requirement the following governing design codes: 1. International Building Code (IBC 2018) as amended by the city of Lee's Summit, MO 2. Minimum Design Loads for Buildings and Other Structures (ASCE7-16) 3. Specification for Structural Steel Buildings (AISC 360-16) Member Design Basis is Allowable Stress Design (ASD) 4. Structural Welding Code (AWS D1.4-2017) 5. Building Code Requirements for Masonry Structures (ACI 530-137/TMS 40 7. North American Specification (NDS) for Wood Constriction with 2018 Supplements (ANSI/AWC NDS-2018) 9. Special Design Provisions for Wind and Seismic (AWC SDPWS-2015) These drawings are for this specific project and no other use is authorized. 4. Wund: V = 109 ppf Roof Live = 20 psf Snow: Pg = 20psf, Pf =14psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI J 1. Wind: V = 109 mph, Exposure B Occupancy [Risk] Category II, Iw=1.0 GCpi=+/-0.18 Design wind pressures to be used for the design of exterior component ar cladding materials on the designated zones of wall and roof surfaces shall be per section 30.7. 2 of ASCE/SEI J. Tabulated pressure shall be multiplied by effective area reduction factors, exposure adjustment classific	notify work ectural, the v for ecting on ents of 2-16) ral 7	А. В. С. D. E. F. G. H. I. К.	All structural ste miscellaneous s where plates shi be ASTM A500, AISC 303-05 "C 13th Edition of th All welding shall All exterior steel All bolts not othe AISC Manual of reactions shown account for ecc support. All connections a specifically show connection desig plates or other of shall be complet the state the pro- bear his/her sea All anchor bolts Washers of mini- the AISC Steel O Washers shall h shall be welded Design, fabrication loads given in th load of 200 lbs. reinforcing. All K-series joist the beams with All K-series joist in bond beams. wall on the beam to beams or beam All steel joists shall Pressures Table All openings in s mechanical equi angles (length e
N L	B. C. C. 2. Str A. B. C. D. E. 3. Col	 the engineer of any discrepancies, inconsistencies, or difficulties affecting the before proceeding. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on archib mechanical, or electrical drawings. In the case of work in an existing building: contractor shall scan existing structure to locate all rebar in the area of the new core/opening using ground penetrating radar and notify the engineer of record review prior to coring/cutting. Conflicts, inconsistencies, or other difficulties aff structural work shall be called to the architect or engineer's attention for directive before proceeding. All design and construction work for this project shall conform to the requirement the following governing design codes: International Building Code (IBC 2018) as amended by the city of Lee's Summit, MO Minimum Design Loads for Buildings and Other Structures (ASCE7-16) Specification for Structural Steel Buildings (AISC 360-16) Member Design Basis is Allowable Stress Design (ASD) Structural Welding Code (AWS D1.4-2017) Building Code Requirements for Structural Concrete (ACI 318-14) Building Code Requirements for Masonry Structures (ACI 530-137/INS 40 Notth American Specification for the Design of Cold-Formed Steel Structur Members (AISI 5100-16) National Design Specification (NDS) for Wood Constriction with 2018 Supplements (ANSI/AWC NDS-2018) Special Design Provisions for Wind and Seismic (AWC SDPWS-2015) These drawings are for this specific project and no other use is authorized. Floor Live = 100 psf Root: Use = 20 psf Snow: Pg = 20psf, Pf =14psf, Is = 1.0, Ce = 1.0, Ct = 1.0, Drift per ASCE/SEI Lateral Loads: 1) Wind: V = 109 mph, Exposure B Occupancy [Risk] Category II, Iw=1.0 GCpi=+/-0.18 Design wind pressures to be used for the design of	work ectural, the v for ecting on ents of 2-16) ral 7	В. С. D.	miscellaneous s where plates sh be ASTM A500, AISC 303-05 "C 13th Edition of th All welding shall All exterior steel All bolts not othe All bolts shall be AISC Manual of reactions showr account for ecc support. All connections specifically show connection design plates or other of shall be complet the state the pro- bear his/her sea All anchor bolts Washers of min the AISC Steel O Washers shall h shall be welded Design, fabrication recommendation loads given in the load of 200 lbs. reinforcing. All K-series joist the beams with All K-series joist in bond beams. wall on the beam of beams or beam All steel joists shall Pressures Table All openings in s mechanical equ angles (length e
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	3. Co	be per section 30.7 and Table 30.7-2 of ASCE/SEI 7. Tabulated pressure shall be multiplied by effective area reduction factors, exposure adjustmen factors, and topographic factors where applicable 2.) Seismic: Ss = 0.114, S1 = 0.067 Occupancy [Risk] Category II, le=1.0, Site Classification D; Sds = 0.121; Sd1 = 0.107 Seismic Design Category B Basic Seismic Force-resisting System: Bearing Wall Systems - Ordinary reinforced masonry shear walls Equivalent Lateral Force Procedure $R = 2$; V = 0.0605W; Omega = $2\frac{1}{2}$; Cd= $1\frac{3}{4}$ This project is designed to resist the most critical effects resulting from the loa combinations of section 1605.3 of the International Building Code.	s it	K. L.	Pressures Table All openings in s mechanical equ angles (length e
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<u></u>				N.	Steel Deck Instit Allow 1.0 tons s engineer of reco to be included. galvanized angle
	Α.	All concrete for foundations (walls, grade beams, footings and piers) shall	_		
	В.	develop minimum ultimate compressive design strength of 3500 psi in 28 days but not less than 500 pounds of cement shall be used per cubic yard of concre- regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump. All concrete for interior flatwork (without floor covering) shall develop minimu ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement at	_{ete} O. of um und		st Installed An Post-installed ar approved in writ spacing and em specified produc required by the
1	C.	not over 4 inches of slump. Concrete mix shop drawing shall contain testing da proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). All concrete for interior flatwork <u>(with floor covering)</u> shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 540 pounds of cement shall be used per cubic yard of concrete regardless of		B.	an ICC-ES Eval installed anchor installed anchor team on the anc Mechanical ancl tested and qualit
	D.	strengths obtained, not over 5.40 gallons of water per 100 pounds of cement a not over 4 inches of slump. Concrete mix shop drawing shall contain testing da proving concrete design mix shrinkage is less than 0.034% at 28 days when tested according to ASTM C157 (air drying method only). All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per subject of compared to according to according the strength of according to the strength of according to the strength of			anchors shall be Adhesive ancho and qualified for installed per the Mechanical ancl qualified for use
H		cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump. The preceding minimum mix requirements may have water-reducing admixtur conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability. The preceding minimum mix requirements may have up to 15% maximum of to cement content replaced with an approved ASTM C618 Class C fly ash,	or		per the anchor r Adhesive ancho qualified for use per the anchor r Anchors used in accordance with shall be installed
	H.	provided the total minimum cementitious content is not reduced. Combined aggregate (coarse plus fine) for all concrete shall be well graded fro coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained	7	. Foi	appropriate scre
	l.	on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's	t		The soil investig number is Structural found
<u>G</u>		recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-		C.	established onbel suitable bearing Spread footings engineered fill o
	J. K	draining granular material as prescribed by the project soils report. All concrete is reinforced concrete unless specifically called out as unreinforce Reinforce all concrete not otherwise shown with same steel as in similar sector or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions. Control joints in dirt formed slab to be as shown on plans. Where not shown,		E.	Retaining walls fluid pressure. Basement walls pressure. See G Contractor shall
F		limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1. Contractor shall verify that all concrete inserts, reinforcing and embedded item are correctly located and rigidly secured prior to concrete placement.	IS	G.	seepage. All foundation ex by the architect This inspection
		Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer. No aluminum items shall be embedded in any concrete.		H. I.	All concrete in the design strength Moisture conten after footing exc subgrade mater recompact mate
	4. Rei	inforcing Steel	Q	Cor	Do not place con
<u>E</u>		All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and confort to the requirements of ASTM A185. Clear minimum coverage of concrete over reinforcing steel shall be as follows 1.) Concrete placed against earth: 3" 2.) Formed concrete against earth: 2"	rm		Concrete block of ASTM C90 ar using type N mc based cement li
	C.	 3.) Slabs: 1" 4.) Beams or Columns: 1-1/2" 5.) Other 2" All coverage shall be nominal bar diameter minimum. All dowels shall be the same size and spacing as adjoining main bars (splice la 48 bar diameters or 24" minimum unless noted otherwise). 	ар		Any block in cor and grouted soli The contractor s during construct All concrete bloc
	D.	At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face	ze	D.	or truss) per arc Cavity wall cons used. The horiz specification and
D		of wall, supply 3 - #4 vertical support bars for corner bars. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension pl		F.	architectural dra Concrete block s Grout, where no strength of 2500 Non-load bearin elements with vo
		96 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively. Unless otherwise covered on architectural plans or specifications, vertical con joints in concrete wall shall be spaced at a maximum of 20'-0" on center and	trol	H.	or compressible Unless otherwis joints in mason be spaced at a r All horizontal join
C	H.	coordinated with the architect. Every other horizontal wall reinforcing bar shal discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number 772 (by Greenstreak Ind approved equal) on dirt face side of wall at all walls below grade. Accessories shall be as specified in latest edition of the ACI Detailing Handboo and the concrete Reinforcing Steel Institute Design Handbook. Maximum	c. or	I. J.	All bond beam h Lintels over all o otherwise cover All exterior lintels Walls shall be a reinforcing(unles
	I.	accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" o center each way. All exterior porches and stoops not otherwise detailed may constructed in any standard manner, solid or hollow, but must be reinforced w #4 bars at 12" on center each way minimum. Porches shall be doweled to	be		the top, per deta
В	J.	adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise. Allow $\frac{1}{2}$ ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).			

tructural steel beams and columns shall be ASTM A992, grade 50 steel and all cellaneous steel shall be ASTM A36 grade steel (except at moment connections

- ere plates shall be ASTM A572, grade 50). Hollow Structural Sections (HSS) shall ASTM A500, grade B. Fabrication and erection shall be in accordance with C 303-05 "Code of Standard Practice for Steel Buildings and Bridges" in the Edition of the AISC Steel Construction Manual. elding shall conform to the recommendations of the AWS. exterior steel and connections, and brick relief angles shall be hot-dip galvanized. polts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N).
- polts shall be fully pretensioned. All beam connections shall be designed per the C Manual of Steel Construction "Framed Beam Connections" for the indicated tions shown in the beam shear connection table on sheet H-S300; and, shall ount for eccentricity when the bolt line is more than 2" from the center of the onnections must be two bolt minimum. Additional connection elements may not be cifically shown in the conceptual details in this set but may be required by the final
- nection design, such as stiffener plates, doubler plates, supplement/reinforcing es or other connection material. Connection design and shop drawing preparation l be completed under the direct supervision of a professional engineer licensed in state the project is located and shop drawings and connection calculations shall his/her seal. nchor bolts shall be 3/4" diameter. ASTM F1554. Grade 36 unless noted otherwise.
- shers of minimum size and thickness for the given anchor diameter in Table 14-2 of AISC Steel Construction Manual shall be provided at every column anchor bolt. shers shall have a standard size hole for the anchor bolt. At braced frames washers Il be welded all around to the column base plate with 3/16" fillet weld. ign, fabrication and erection of all open-web bar joists shall comply with the mmendations of the Steel Joist Institute (SJI). Joists shall be designed to support
- s given in the standard load tables of SJI Specs and Tables plus an additional point of 200 lbs. on the top or bottom chord at any location without additional web orcing. -series joists shall bear 2-1/2" minimum on structural steel beams and be welded to beams with 1 1/2" of 1/8" fillet weld each side (minimum).
- -series joists bearing on masonry walls shall have 6" x 3/8" x 6" bearing plates set ond beams. Bearing plates shall be located not more than 1/2" from the face of the on the bearing side. Joists shall bear 4" minimum on bearing plates and be welded eams or bearing plates with 1-1/2" of 1/8" fillet weld each side (minimum). steel ioists shall have horizontal bar or angle bridging per Steel Joist Institute
- cifications. Provide rigid x-bridging in addition to and matching horizontal bridging ere joists are discontinuous unless horizontal bridging is anchored to wall top and om. Joist sweep allowance shall comply with AISC Standard Practice. el joists shall be designed for uplift per Components & Cladding Roof Uplift ssures Table on this sheet. penings in steel joist roof to have 3x3x1/4 angle frame set between joists. Support
- hanical equipment with 4x4x5/16 angles laid between joists framed to 4x4x5/16 les (length equals mechanical unit dimension plus distance each end to next panel t) laid parallel to and welded to top and/or bottom cord of joists to distribute load to panel points. steel joists shall have a midspan camber approximately equal to that recommended
- he Steel Joist Institute Specifications.
- ign and installation of steel decking shall comply with the recommendations of the el Deck Institute (SDI). All decking shall be galvanized unless noted otherwise. w 1.0 tons structural steel to be used as directed in field for special conditions by the neer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection
- e included. 50% of structural steel allowance shall be bid as miscellaneous anized angle and plate.

stalled Anchors

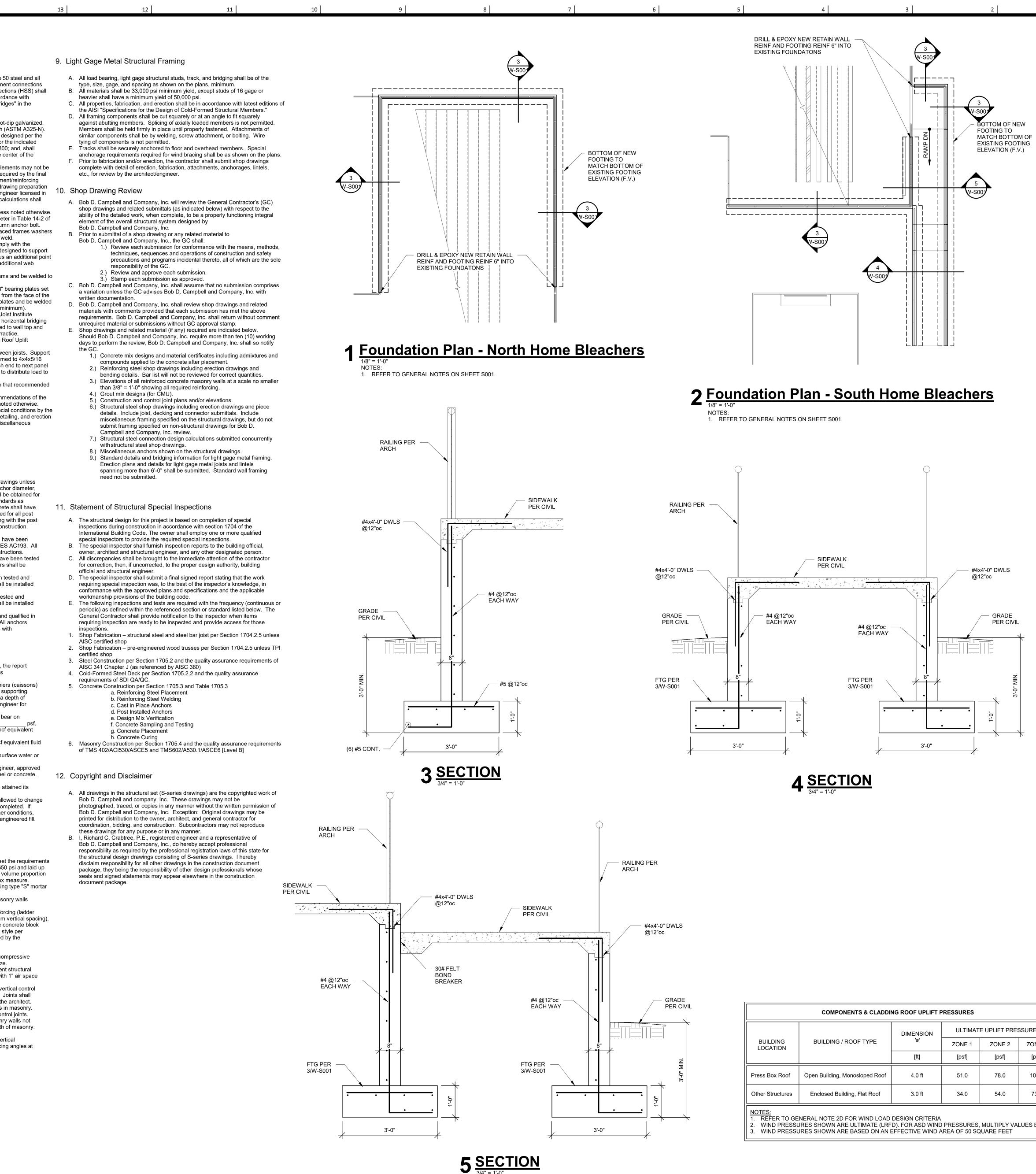
- -installed anchors shall be used only where specified on the drawings unless roved in writing by the engineer of record. See drawings for anchor diameter, cing and embedment. Performance values of the anchors shall be obtained for fied products using appropriate design procedures and/or standards as ired by the governing building code. Anchors installed in concrete shall have CC-ES Evaluation Service Report. Special inspection is required for all post alled anchors. The contractor shall coordinate an on-site meeting with the post alled anchor manufacturer field representative to educate the construction n on the anchor installation guidelines and requirements.
- hanical anchors used in cracked and uncracked concrete shall have been ed and gualified for use in accordance with ACI 355.2 and ICC-ES AC193. All nors shall be installed per the anchor manufacturer's written instructions. esive anchors used in cracked and uncracked concrete shall have been tested
- qualified for use in accordance with ICC-ES AC308. All anchors shall be alled per the anchor manufacturer's written instructions. hanical anchors used in solid grouted masonry shall have been tested and
- ified for use in accordance with ICC-ES AC01. All anchors shall be installed the anchor manufacturer's written instructions. esive anchors used in solid grouted masonry shall have been tested and ified for use in accordance with ICC-ES AC58. All anchors shall be installed the anchor manufacturer's written instructions.
- hors used in hollow concrete masonry shall have been tested and gualified in ordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors Il be installed per the anchor manufacturer's written instructions with opriate screen tubes used for adhesives.

itions

- soil investigation was prepared by and the telephone number is ber is
- ctural foundations consist of a network of straight shaft drilled piers (caissons) blished on capable of safely supporting
- _end bearing. Each pier hole shall be probed to a depth of _ below pier bottom and observed by the project soils engineer for able bearing material. ead footings, grade beams, and retaining walls are designed to bear on
- neered fill or undisturbed soil capable of safely sustaining _____ aining walls are designed for an active lateral load of _____ pcf equivalent pressure
- ement walls are designed for an at rest lateral load of pcf equivalent fluid ssure. See General Note ____ for wall bracing requirements. tractor shall provide for dewatering at excavations from either surface water or
- bage. oundation excavations shall be inspected by a qualified soil engineer, approved
- he architect and/or structural engineer, prior to placement of steel or concrete. inspection shall be at the owner's expense.
- ign strength prior to being backfilled.
- concrete in the structural portion retaining the backfill shall have attained its sture content in soils beneath building locations should not be allowed to change footing excavations and after grading for slabs on grade are completed. If grade materials become desiccated or softened by water or other conditions, mpact materials to the density and water content specified for engineered fill. not place concrete on frozen ground.

te Masonry Units

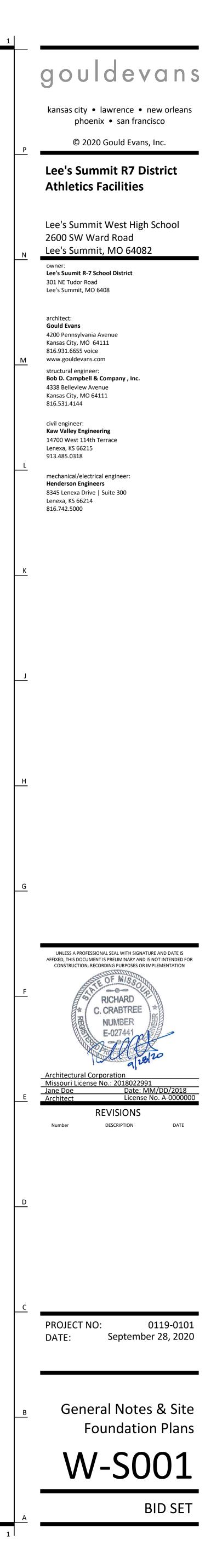
- crete block used in exterior walls or load bearing walls shall meet the requirements STM C90 and have a minimum net compressive strength of 2650 psi and laid up g type N mortar such that f'm equals 2000 psi. Mortar shall be volume proportion ed cement lime mortar. Proportioning shall be completed by box measure. block in contact with earth shall be normal weight units, laid using type "S" mortar arouted solid.
- contractor shall provide adequate temporary bracing for all masonry walls ng construction.
- oncrete block shall have 9 gage (or larger) horizontal joint reinforcing (ladder russ) per architectural drawings and specifications (16" maximum vertical spacing). vity wall construction shall be reinforced as designed for specific concrete block The horizontal joint reinforcing shall be of the ladder or truss style per cification and continuous between brick and block, as prescribed by the itectural drawings. crete block shall be reinforced as indicated on Sheet H-S002
- ut, where noted above, shall have a minimum design ultimate compressive ngth of 2500 psi at 28 day test and 3/8" maximum aggregate size. -load bearing concrete block walls shall be isolated from adjacent structural nents with vertical 3/8" control joints and at the top of the wall with 1" air space
- ompressible material and support per architectural detail. ess otherwise covered on architectural plans or specifications, vertical control ts in masonry construction shall be 3/8" wide, full height of wall. Joints shall
- paced at a maximum of 24'-0" on center and coordinated with the architect. orizontal joint reinforcing shall be discontinuous at control joints in masonry. ond beam horizontal reinforcing shall be continuous through control joints. xterior lintels to be galvanized.
- els over all openings up to 8'-0" wide in new and existing masonry walls not rwise covered shall be one 6x3 1/2x5/16 angle for each 4" width of masonry. s shall be anchored top and bottom by dowels matching wall vertical orcing(unless noted otherwise) from floor slab bottom and bracing angles at op, per details on the drawings.

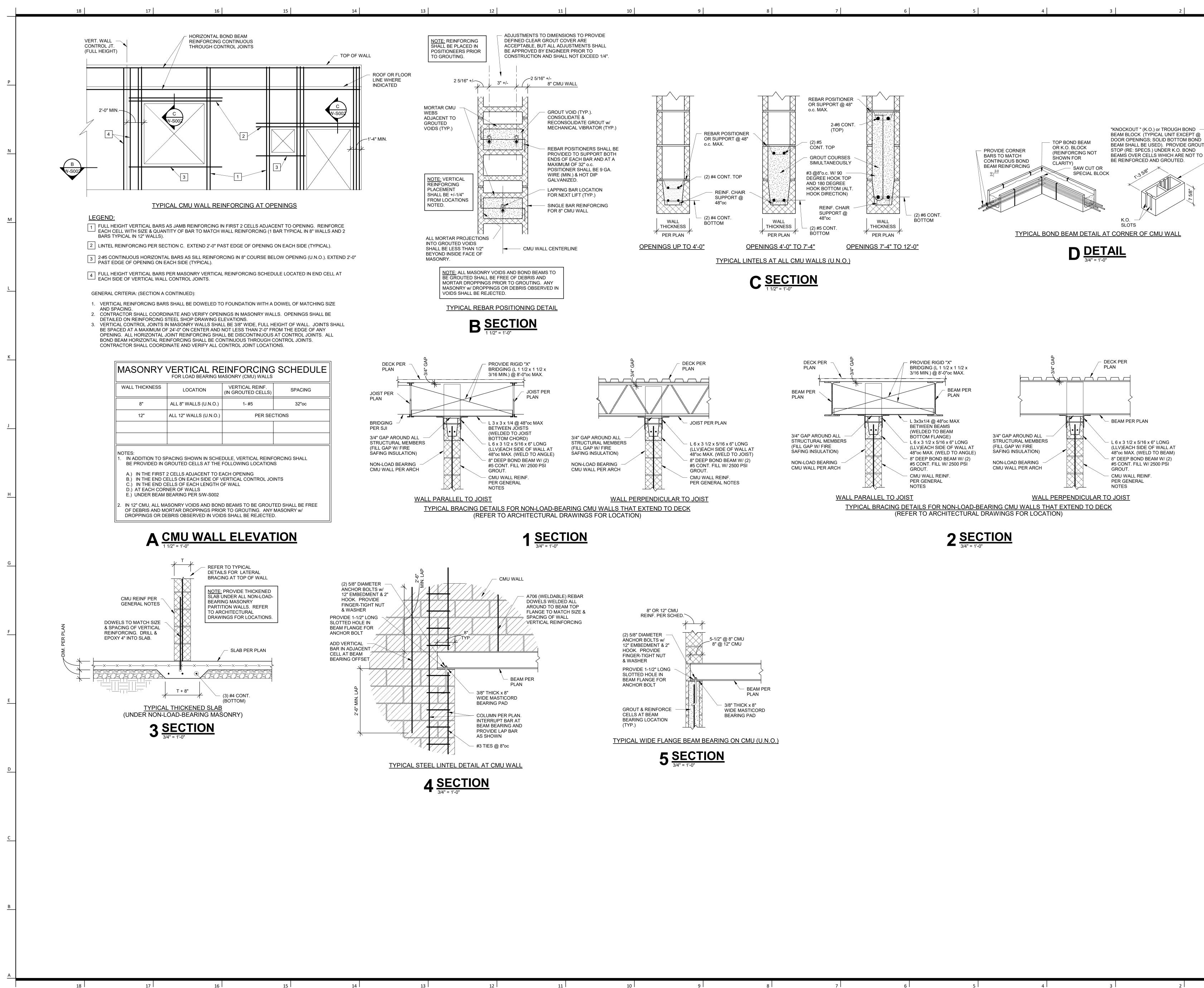


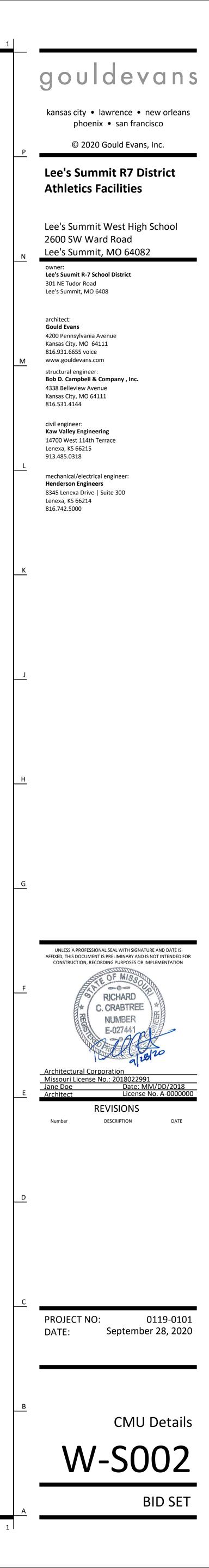
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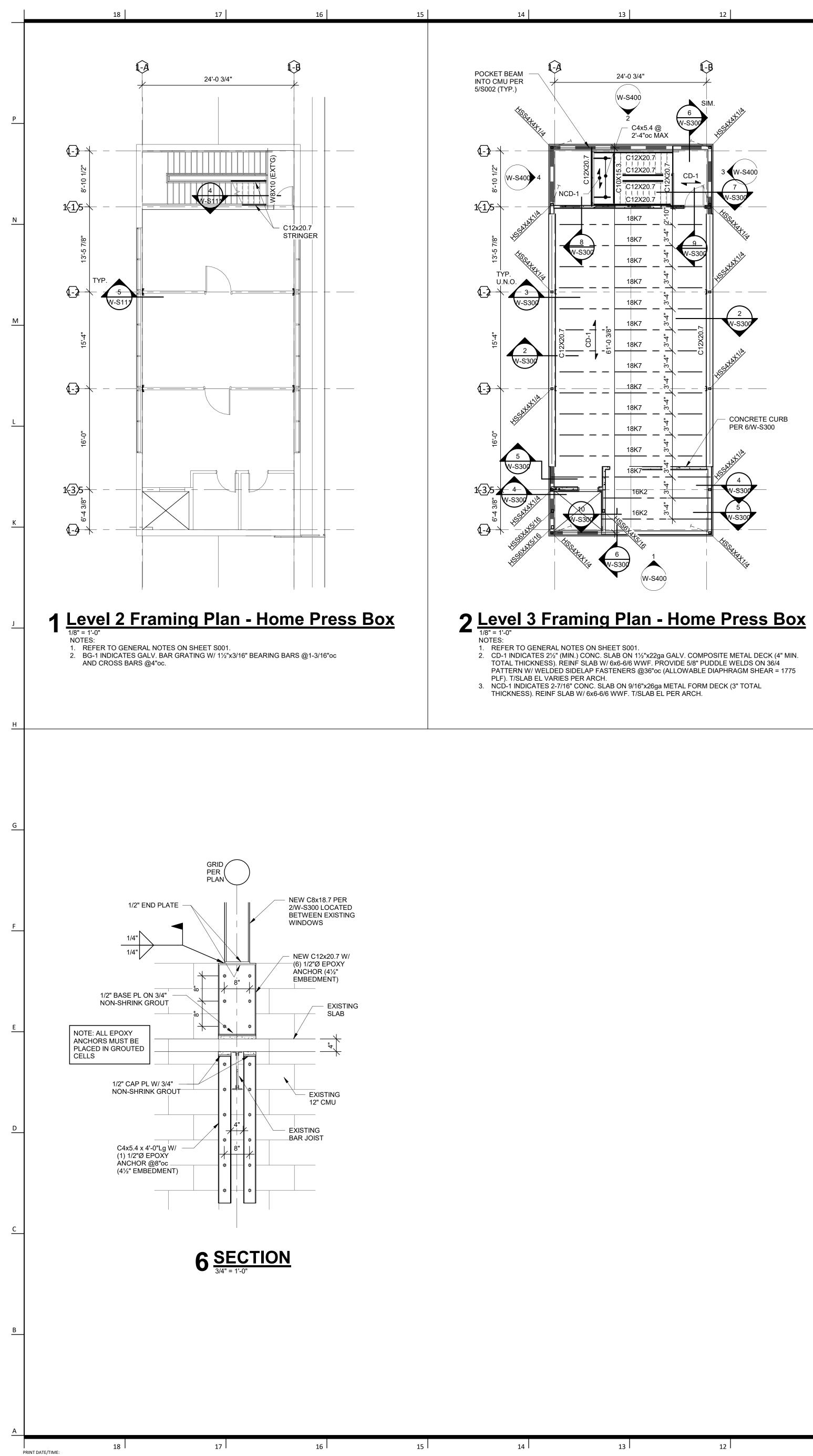
13 I

		DIMENSION	ULTIMATE UPLIFT PRESSURE			
BUILDING LOCATION	BUILDING / ROOF TYPE	'a'	ZONE 1	ZONE 2	ZONE 3	
		[ft]	[psf]	[psf]	[psf]	
Press Box Roof Open Building, Monosloped Roo		4.0 ft	51.0	78.0	102.0	
Other Structures	Enclosed Building, Flat Roof	3.0 ft	34.0	54.0	73.0	
2. WIND PRESSU	NERAL NOTE 2D FOR WIND LOAD JRES SHOWN ARE ULTIMATE (LRF JRES SHOWN ARE BASED ON AN F	D). FOR ASD WIND	PRESSURES,		LUES BY 0.6	

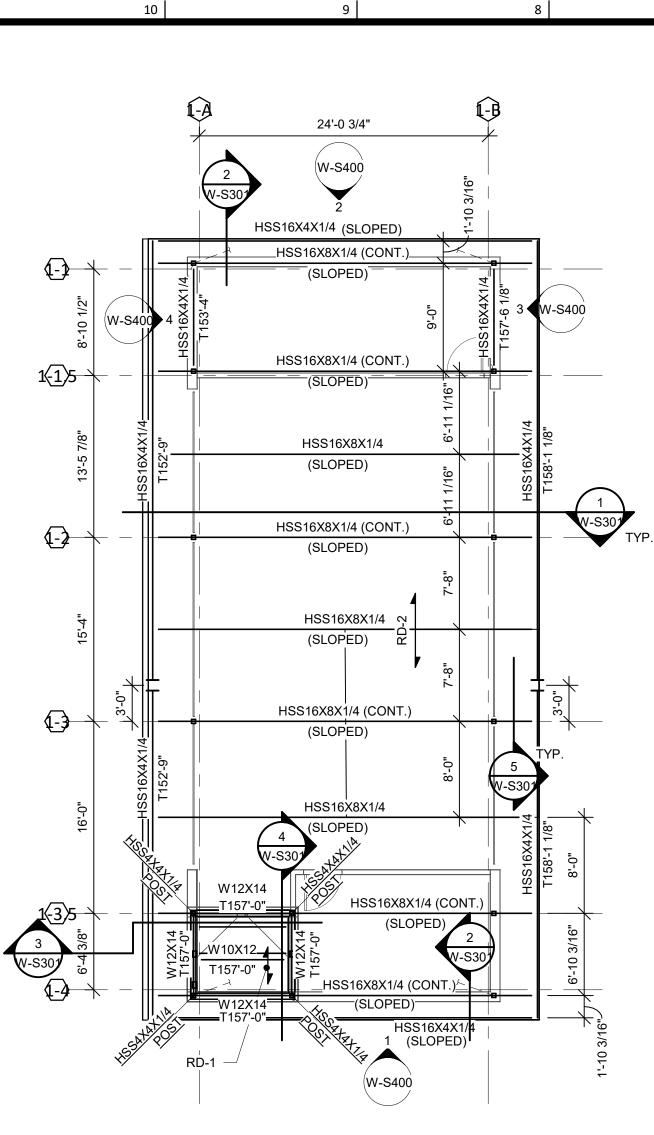






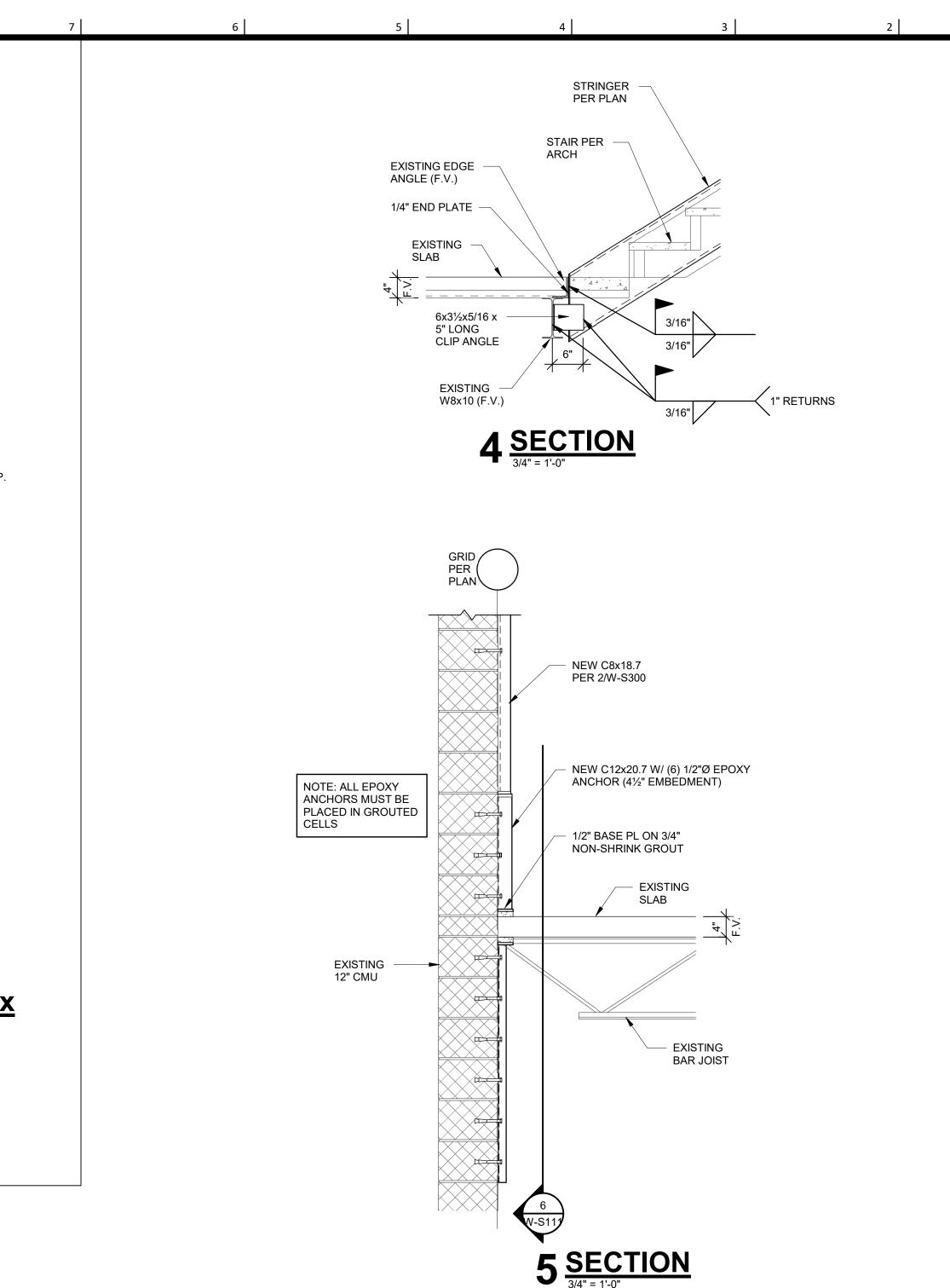


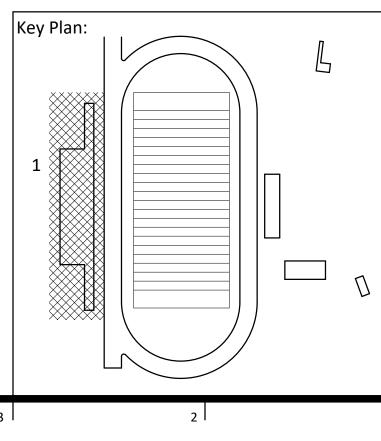
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11

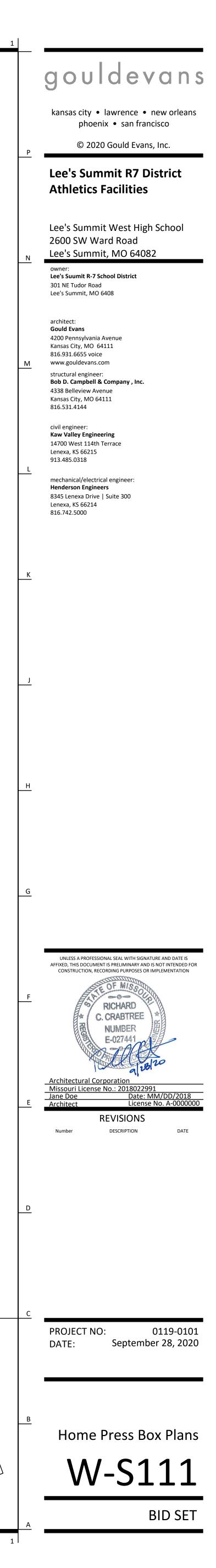
- 3 **Roof Framing Plan Home Press Box** NOTES: 1. REFER TO GENERAL NOTES ON SHEET S001.
 - RD-1 INDICATES 1½"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 36/7 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 328 PLF). RD-2 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 24/4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 244 PLF).

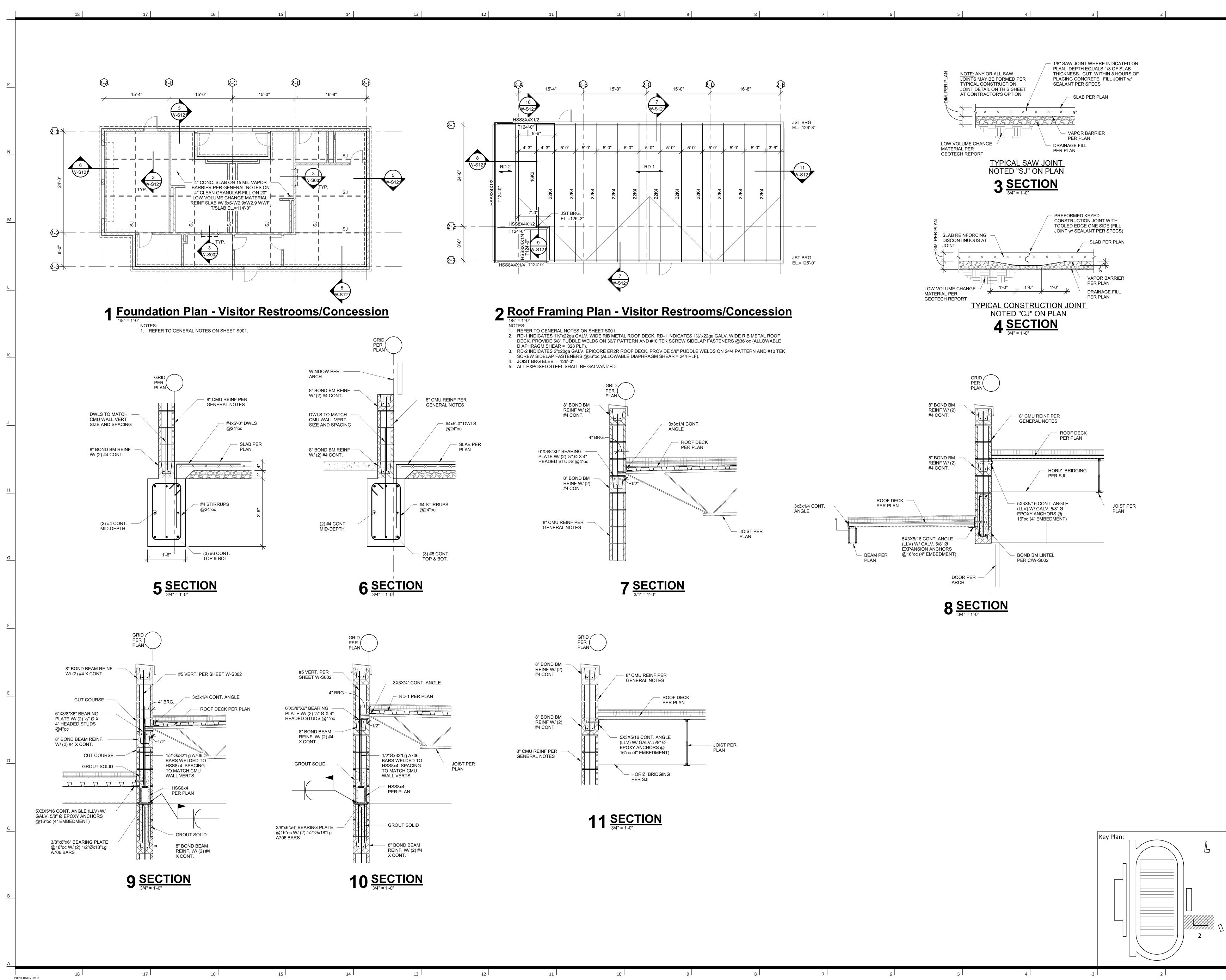




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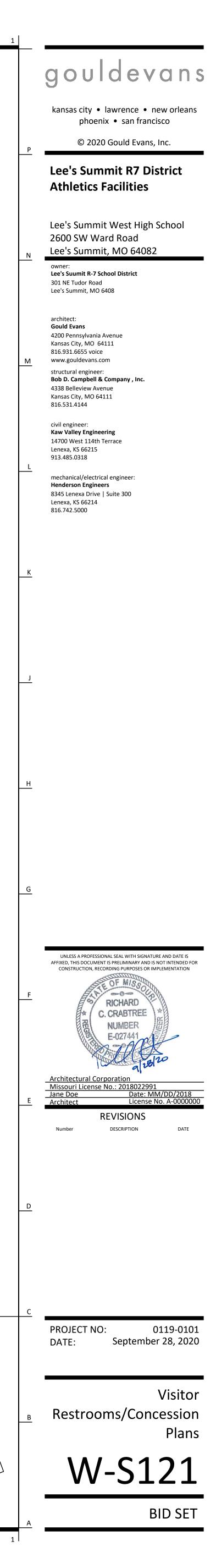
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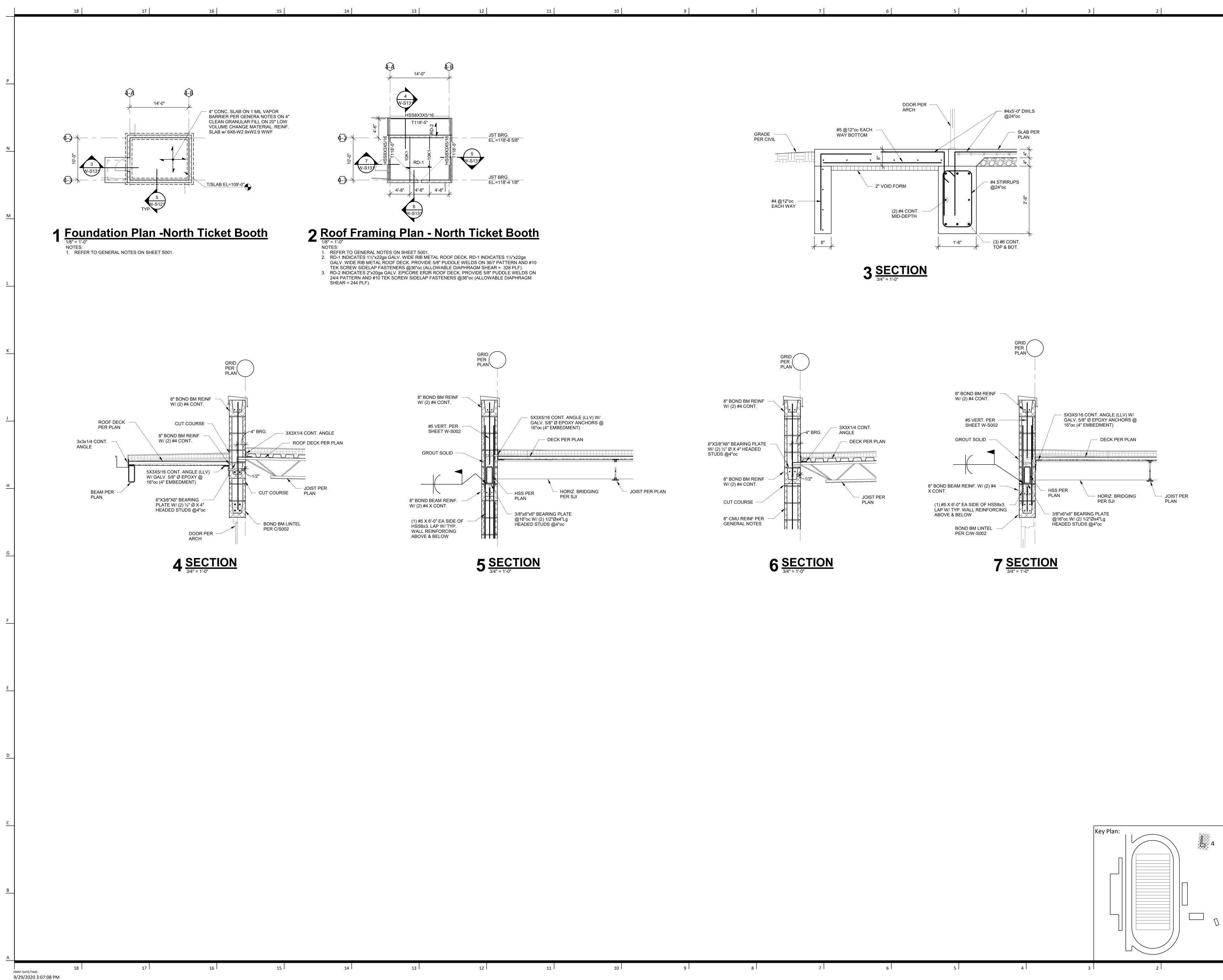






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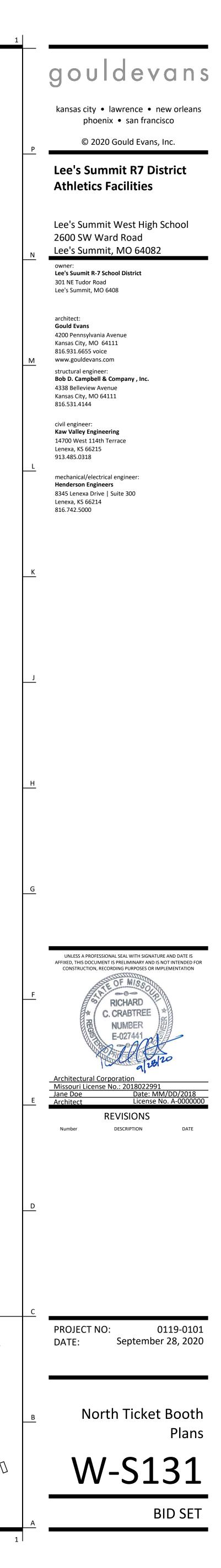


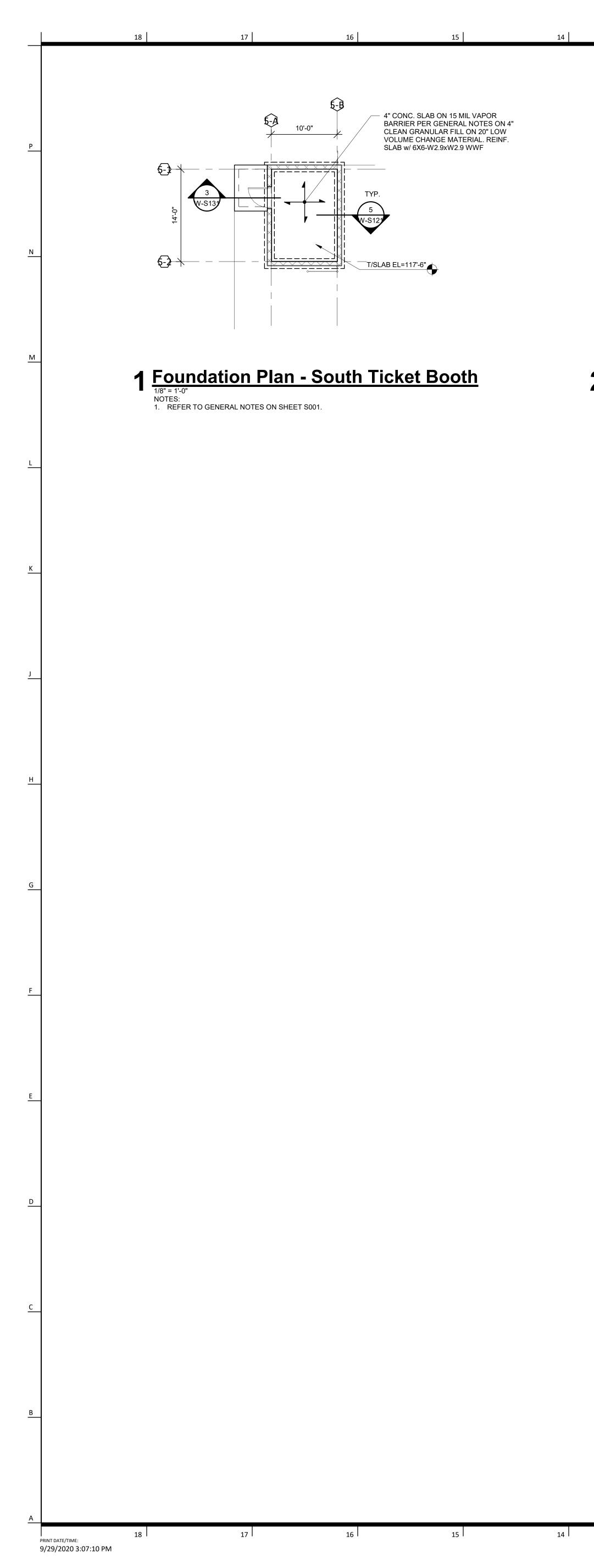




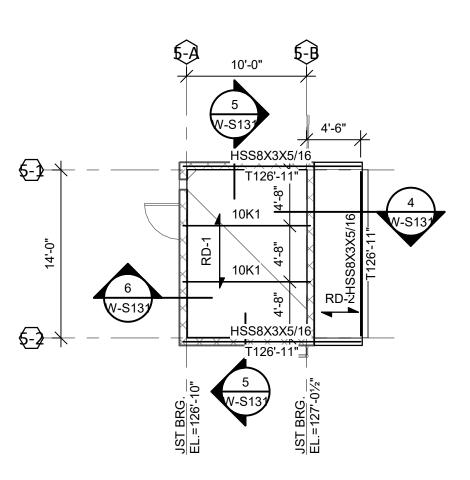












2 Roof Framing Plan - South Ticket Booth

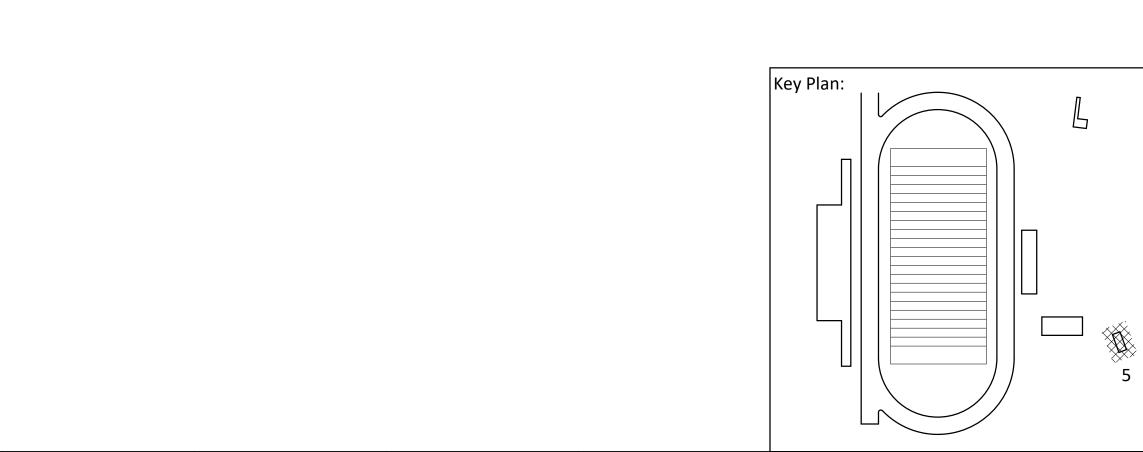
- NOTES:
- NOTES:
 REFER TO GENERAL NOTES ON SHEET S001.
 RD-1 INDICATES 11/2"x22ga GALV. WIDE RIB METAL ROOF DECK. RD-1 INDICATES 11/2"x22ga GALV. WIDE RIB METAL ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 36/7 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 328 PLF).
 RD-2 INDICATES 2"x20ga GALV. EPICORE ER2R ROOF DECK. PROVIDE 5/8" PUDDLE WELDS ON 24/4 PATTERN AND #10 TEK SCREW SIDELAP FASTENERS @36"oc (ALLOWABLE DIAPHRAGM SHEAR = 244 PLF).

8 |

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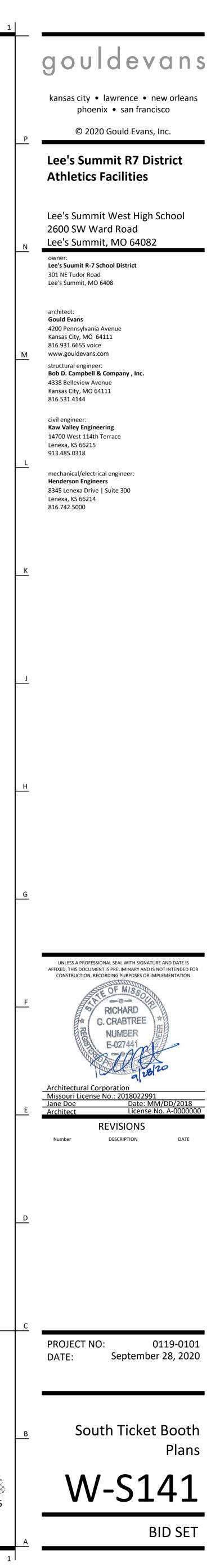
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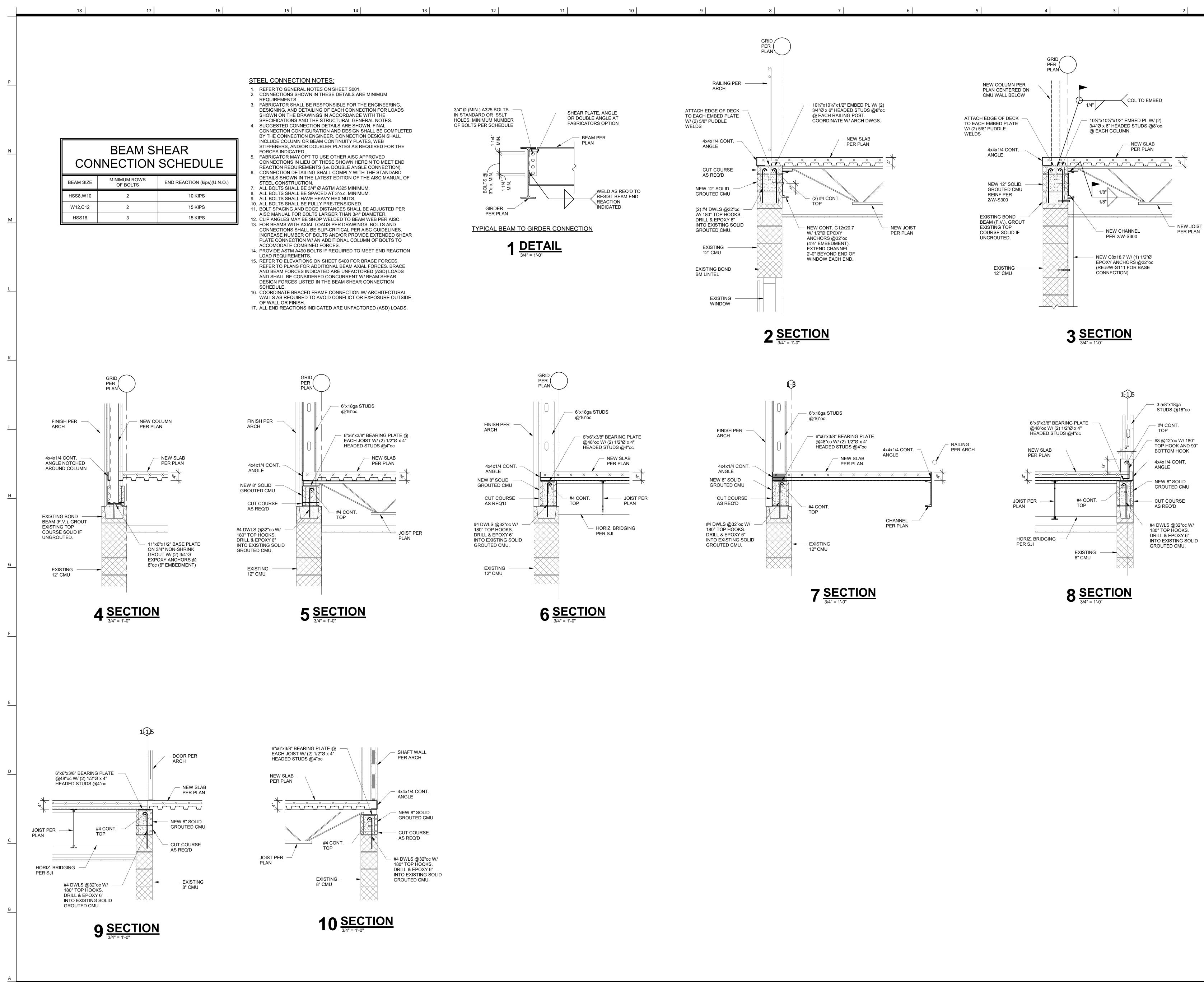




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18 I

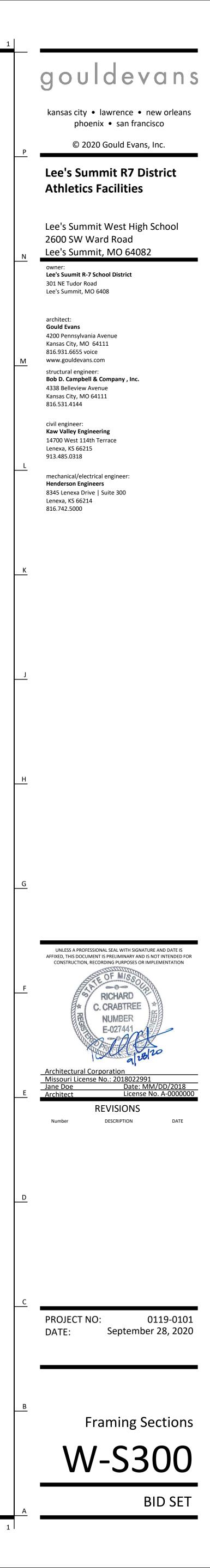
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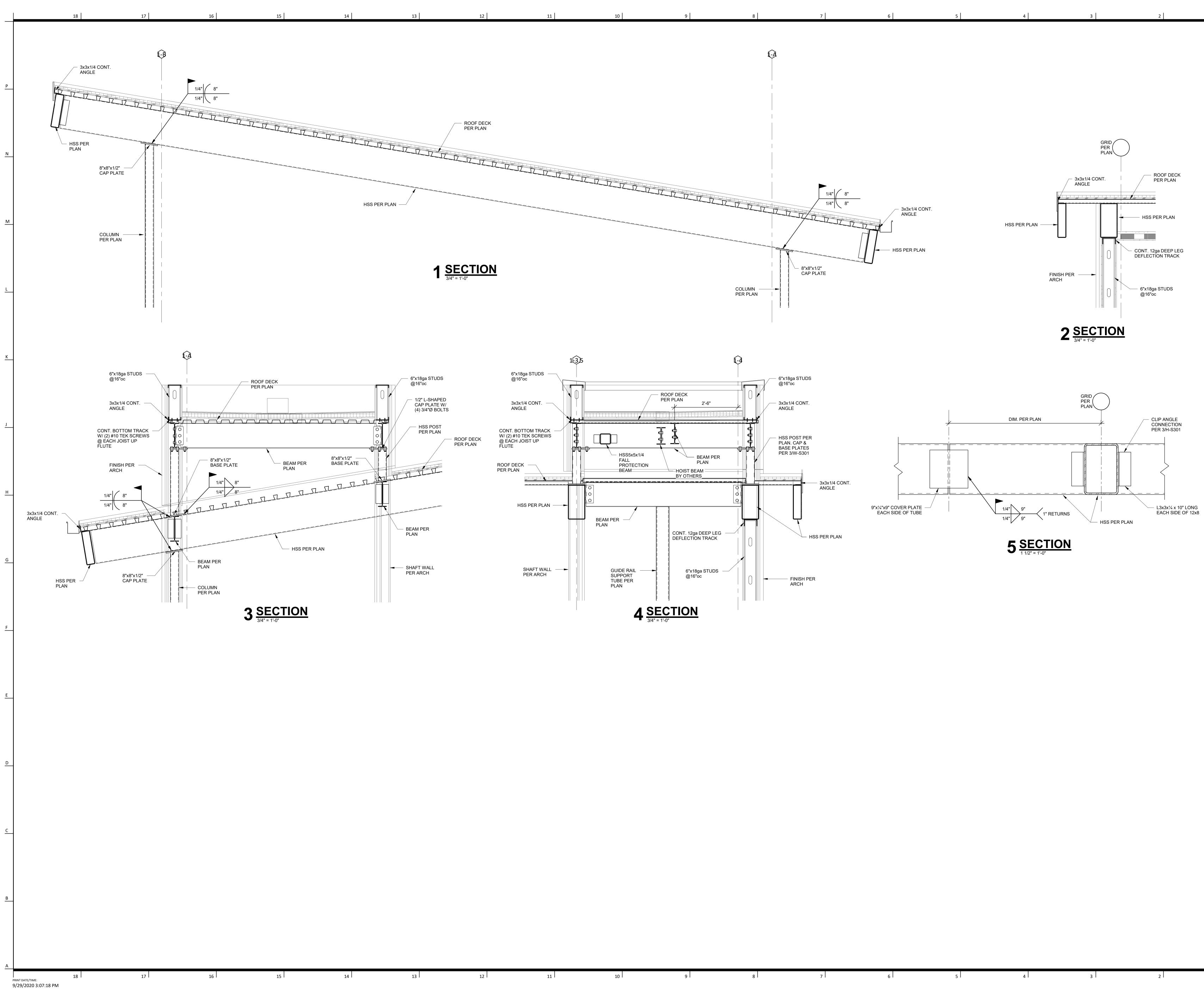
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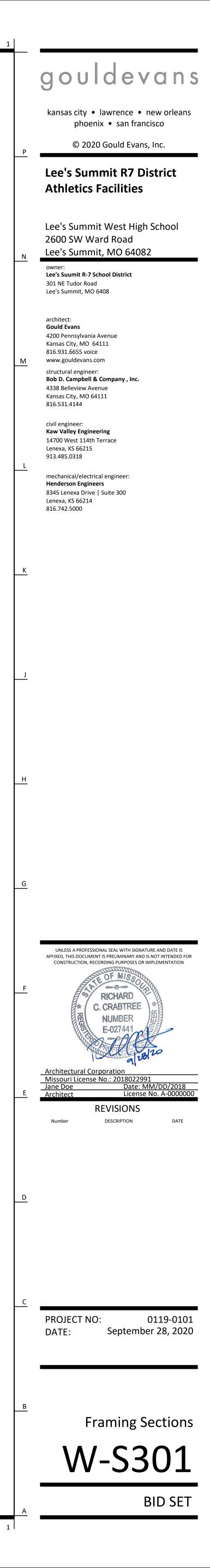
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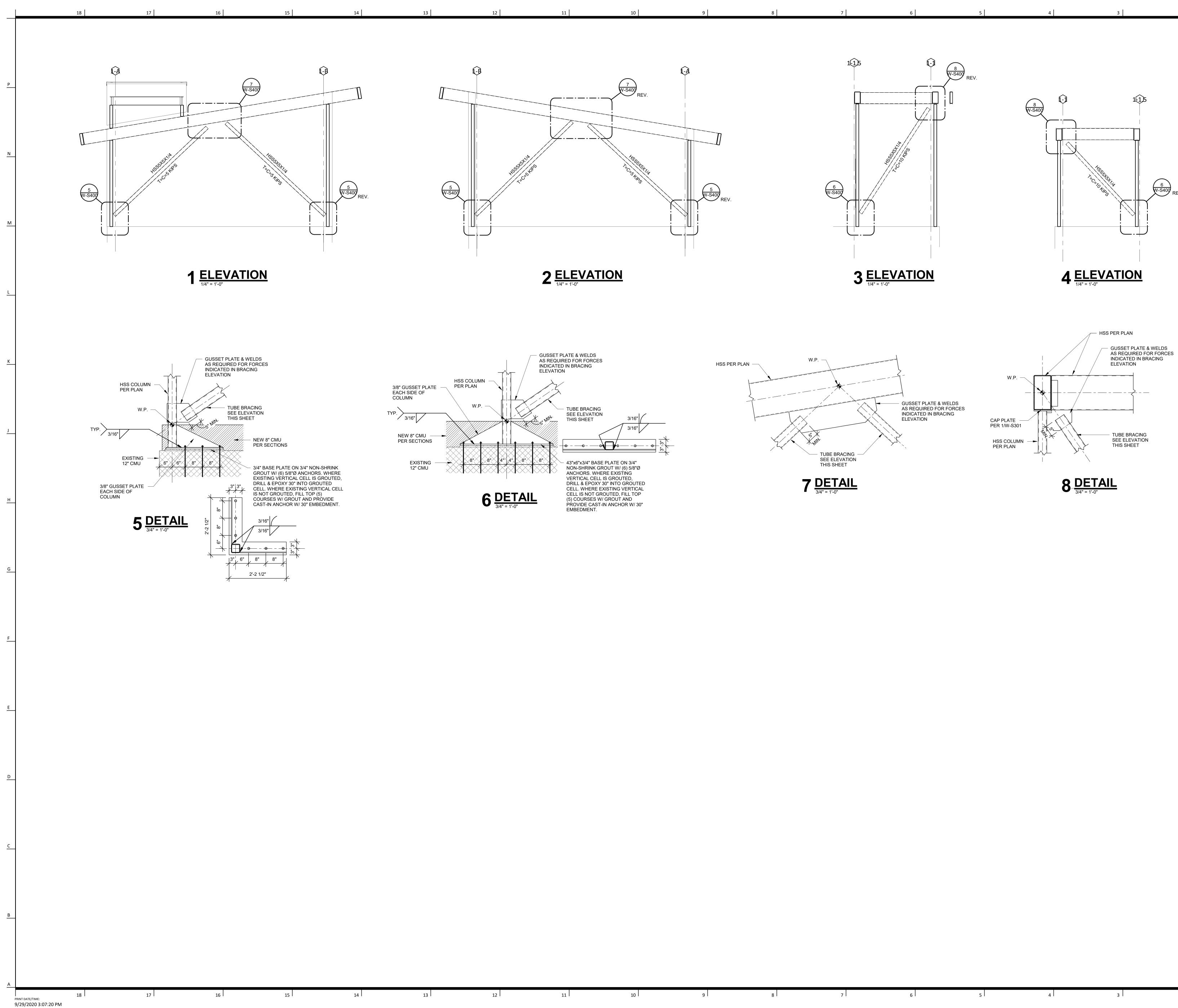




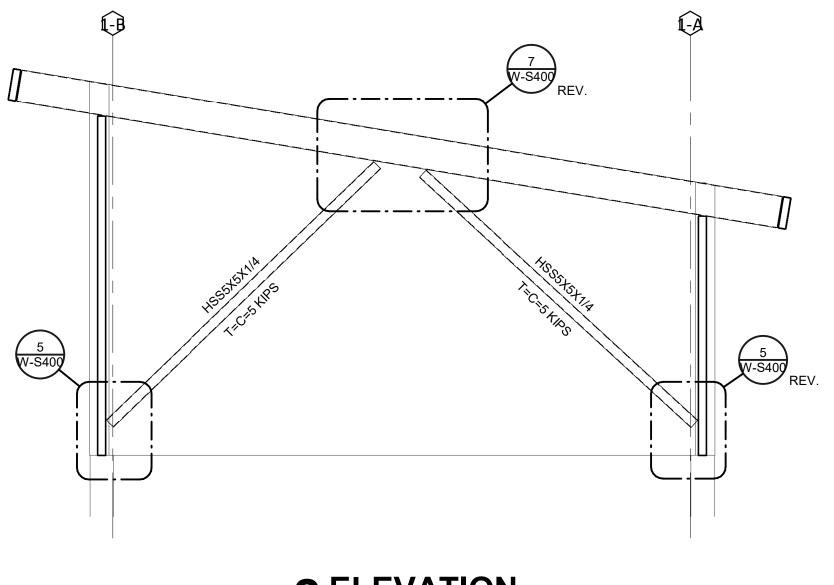


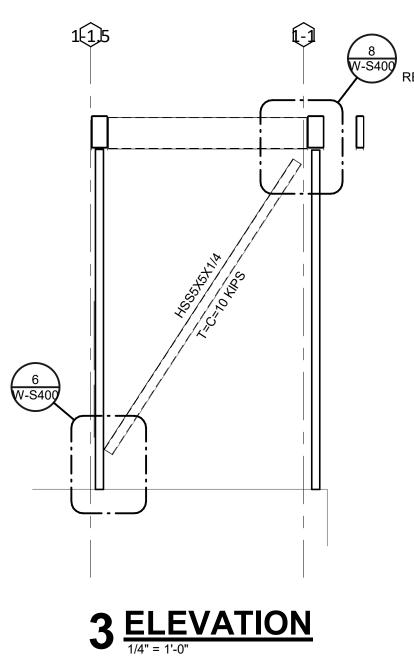


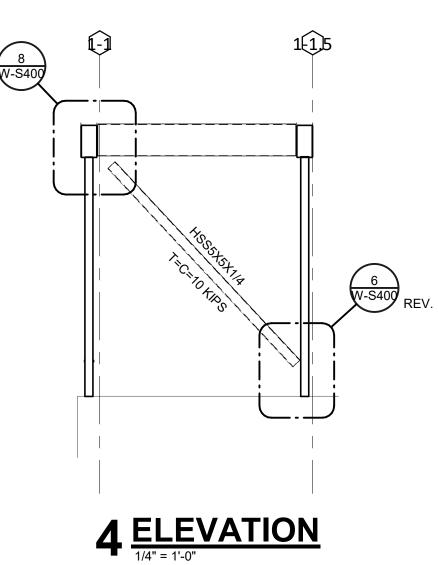


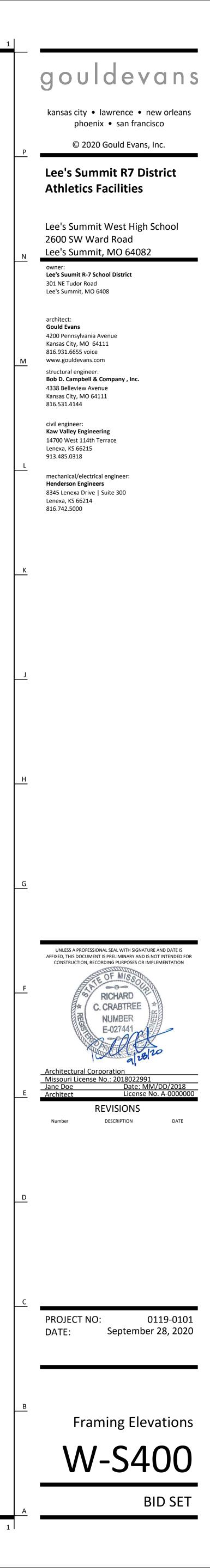


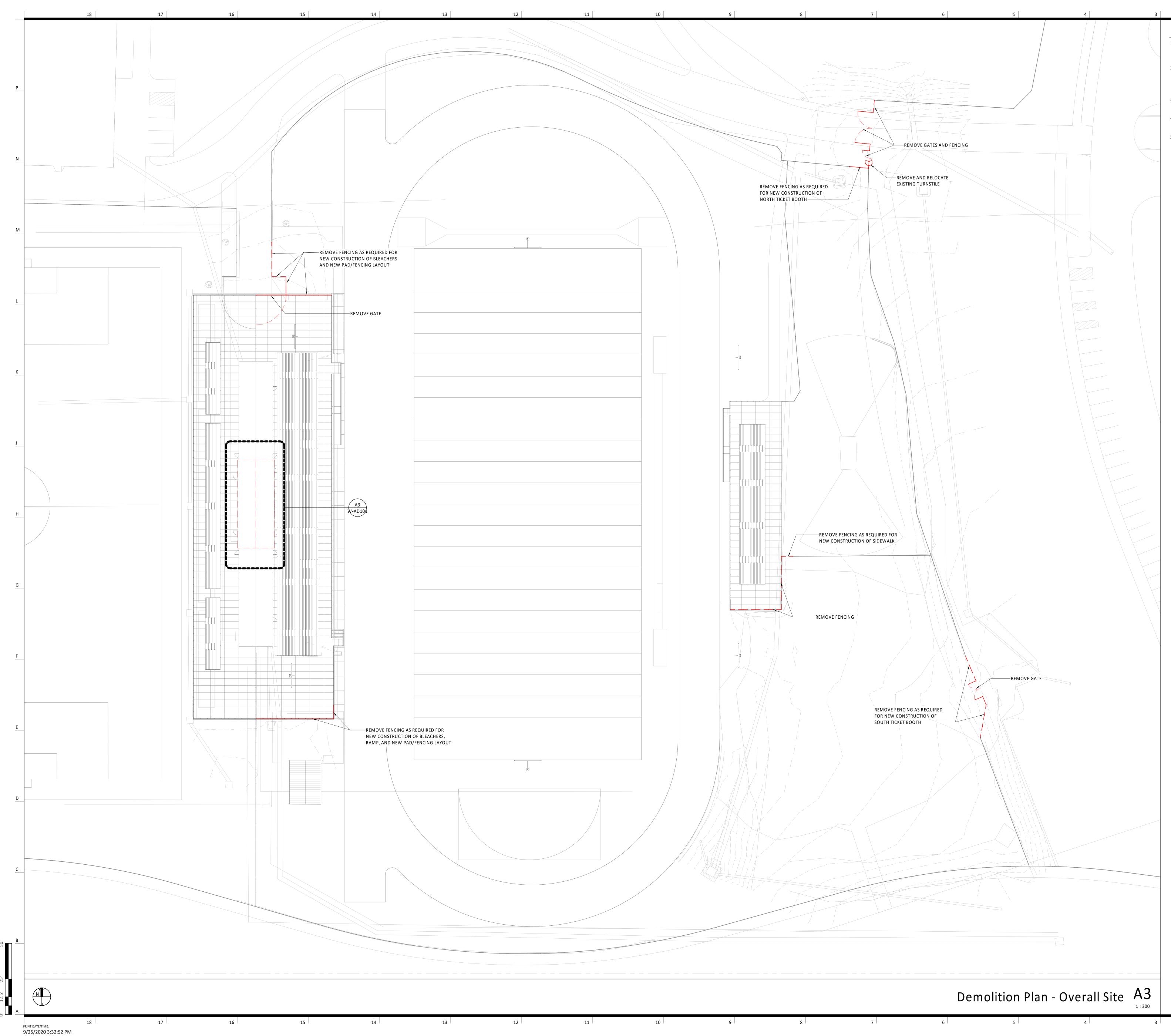






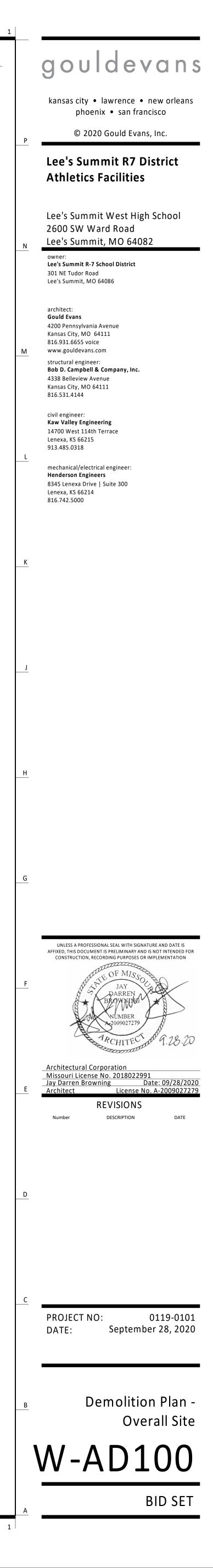






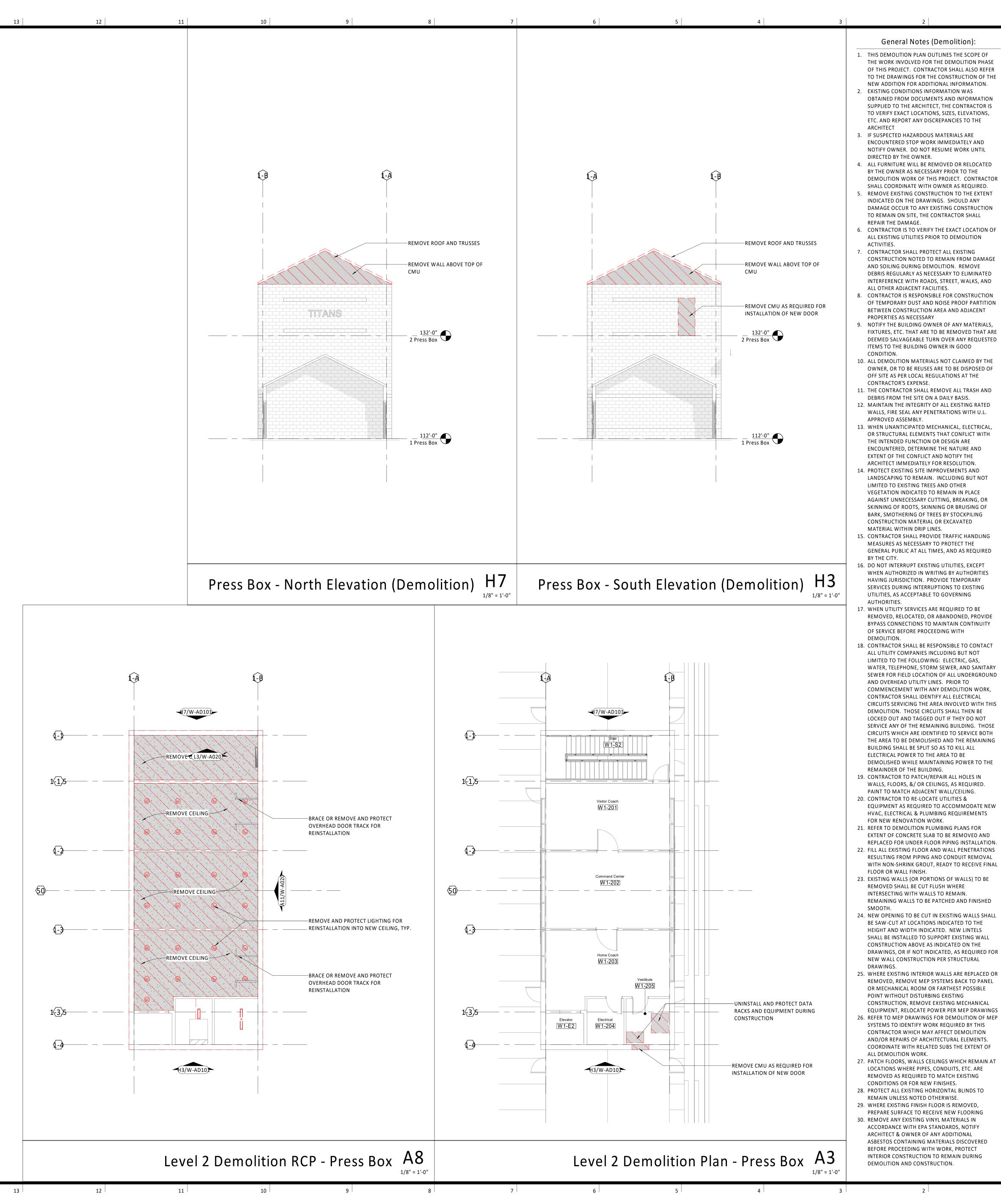
General Notes (Demo Site Plan):

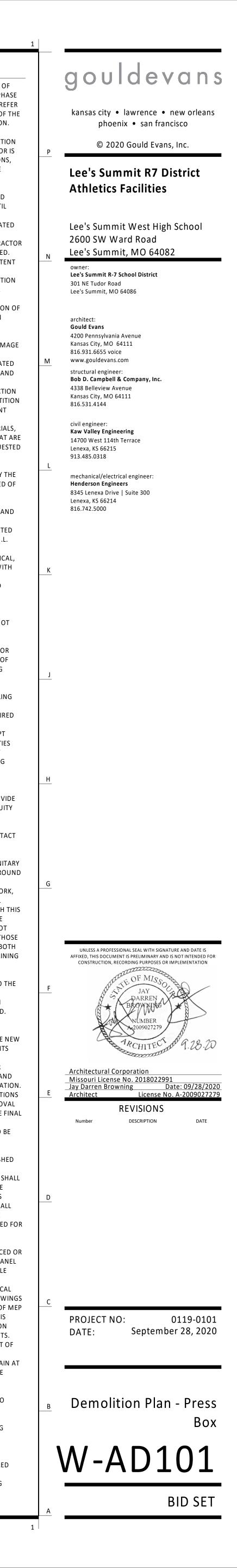
- 1. DEMOLITION OF ELEMENTS ON THIS PLAN ARE LOCATED TO THE BEST OF OUR KNOWLEDGE AND SHOULD BE VERIFIED IN FIELD BEFORE BEGINNING
- DEMOLITION. . PROTECT SITE ELEMENTS THAT ARE EXISTING TO REMAIN FROM DAMAGE. INCLUDING BUT NOT LIMITED TO, EXISTING FENCE & GATES, EXISTING BLEACHERS, EXISTING ATHLETICS TRACK, EXISTING
- SCOREBOARD, ETC. 3. ALL GATES ASSOCIATED WITH FENCE TO BE DEMOLISHED SHALL ALSO BE DEMOLISHED, VERIFY IN FIELD.
- 4. ALL FENCE TO BE REPLACED IN PLACE SHALL ALSO HAVE ANY CORRESPONDING GATES REPLACED. RE: W-AS201, VERIFY IN FIELD. 5. FILL ALL POST HOLES AFTER DEMOLITION OF FENCE POSTS.



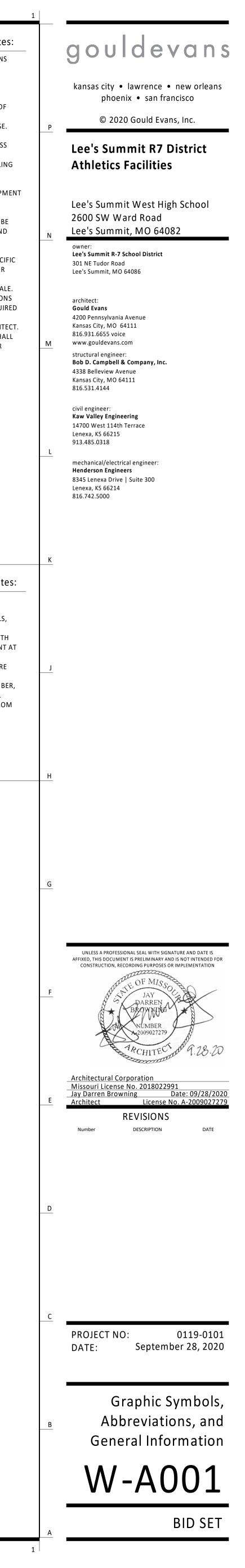
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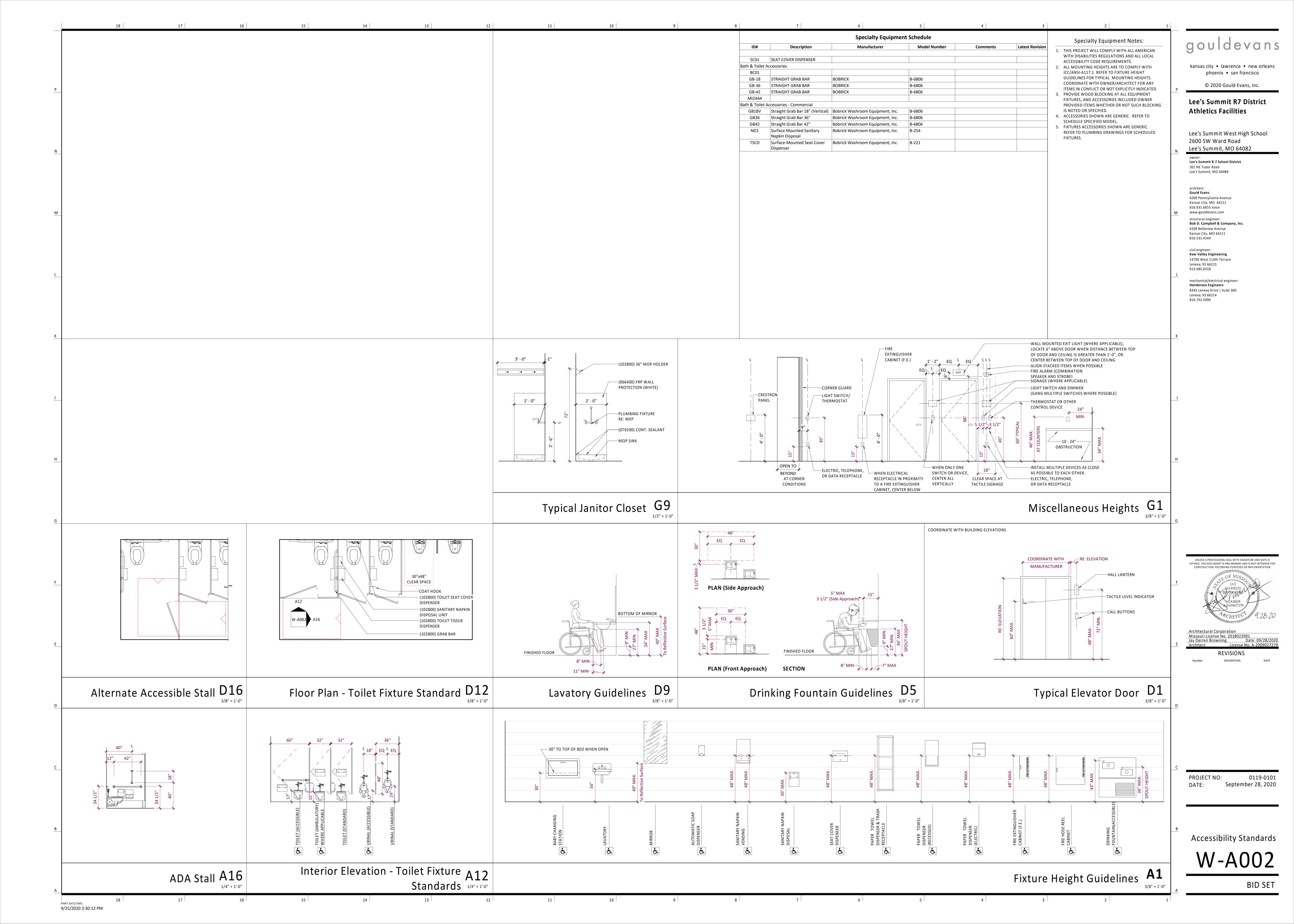
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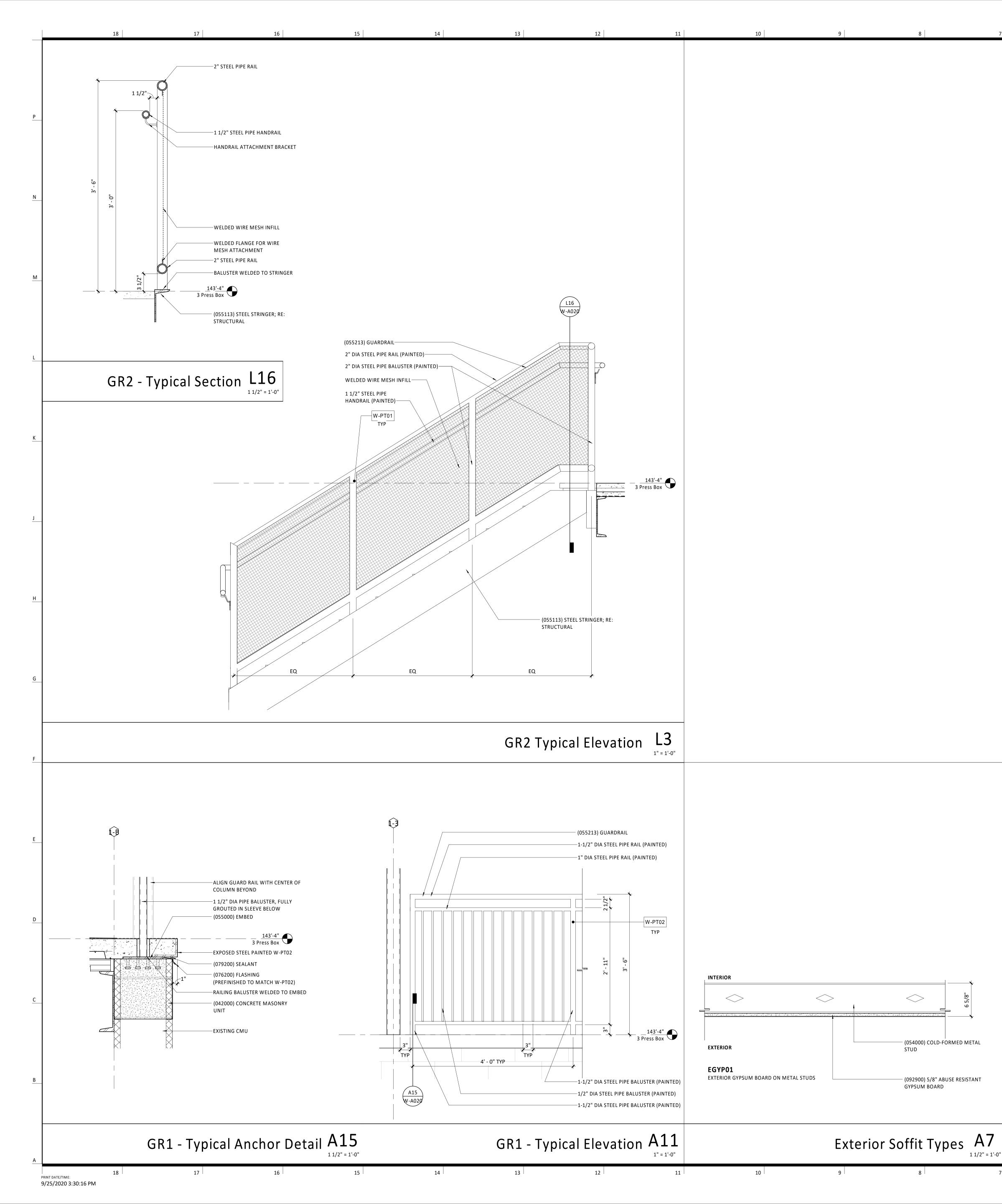


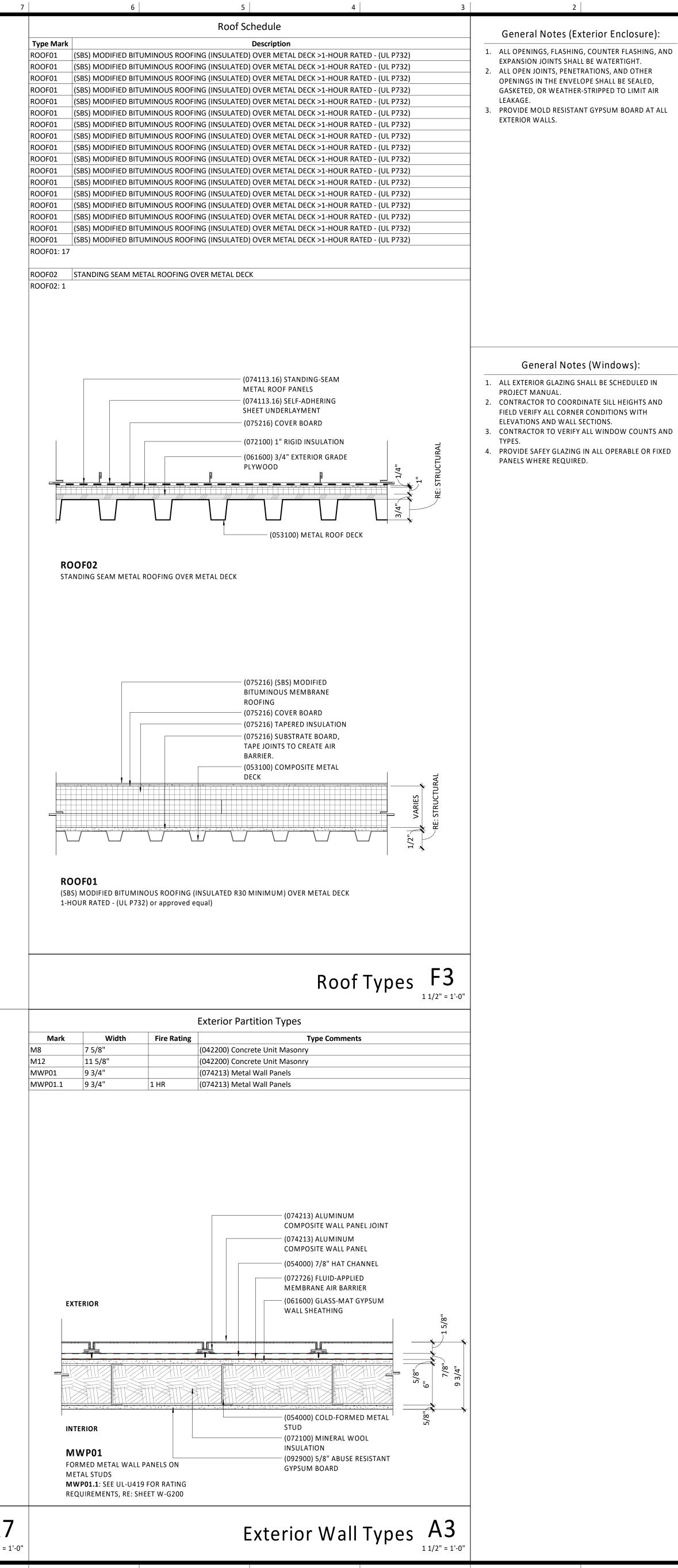


	18	17 16	15	14 13	12 1	1 10	9 8	7 6	5 4 3 2
-	Α	D	Abbreviations	P	т	Graphic Symbols	Materials Graphics		General Architectural Drawing Notes:
	@ ATA/C AIR CONDITION(ING) (ED)	D DEEP, DEPTH DBL DOUBLE	HB HOSE BIBB HC HANDICAP, HOLLOW CORE	PA PUBLIC ADDRESS PAR PARALLEL	T TREAD T & B TOP AND BOTTOM	01 GENERAL	02 SITE CONSTRUCTION		1. VERIFY DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. REPORT DISCREPANCIES TO THE ARCHITECT PRIOR TO
	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			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	EARTH (backfill)		REFERENCED FROM STRUCTURAL GRID, FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF FINISHED SURFACE, UNLESS NOTED OTHERWISE.
<u>P</u>	ACCU AIR COOLED CONDENSING UNIT ACI AMERICAN CONCRETE	DF DRINKING FOUNTAIN DH DOUBLE HUNG	HM HOLLOW METAL HO HOLD OPEN	PERIM PERIMETER PL PLATE, PROPERTY LINE	TEMP TEMPORARY, TEMPERATURE TERR TERRAZZO	EXISTING WALL	03 CONCRETE		3. REFLECTED CEILING PLAN DIMENSIONS ARE REFERENCED FROM FINISHED SURFACES UNLESS
	INSTITUTE ACOUS ACOUSTICAL INSULATION INSUL	DIA or Ø DIAMETER DIFF DIFFERENCE	HORIZ HORIZON HR HOUR	PL GL PLATE GLASS PLAM PLASTIC LAMINATE	THERM THERMAL THK THICKNESS	1 SIM BUILDING SECTION	CAST-IN-PLACE CONCRETE		NOTED OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FLOOR TO FINISHED CEILING
	ACOUS PNL ACOUSTICAL PANEL ACST ACOUSTIC	DIM DIMENSION DIR DIRECTION	HSS HOLLOW STRUCTURAL SECTION HT HEIGHT	PLAS PLASTER, PLASTIC PLBG PLUMBING	THRU THROUGH TK BD TACK BOARD	A101	PRECAST CONCRETE		HEIGHT. 4. CASEWORK, PLUMBING FIXTURES, TOILET PARTITIONS, AND OTHER FIXTURES AND EQUIPMENT
	ACT ACOUSTICAL CEILING TILE ADA AMERICANS WITH DISABILITIES	DISP DISPENSER DIST DISTANCE DIV DIVIDE, DIVISION	HVAC HEATING, VENTILATING AND AIR CONDITIONING HW HOT WATER	PLYWD PLYWOOD PNL PANEL POL POLISHED	TMPDTEMPEREDTMPD GLTEMPERED GLASSTOCTOP OF CONCRETE	1 SIM WALL SECTION	04 MASONRY		ARE DIMENSIONED FROM FINISHED SURFACES UNLESS NOTED OTHERWISE.
<u>N</u>	ACT ADDL ADDITIONAL	DL DEAD LOAD DMPF DAMPPROOFING	HYD HYDRANT	POLY POLYETHYLENE (PLASTIC) PORC PORCELAIN	TOF TOP OF FOOTING, TOP OF FLOOR, TOP OF FRAME	A101 SIM	BRICK		5. DIMENSIONS NOTED AS "FIELD VERIFY" SHALL BE CHECKED AT THE SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCHITECT BEFORE
	ADDM ADDENDUM ADH ADHESIVE	DMPR DAMPER DN DOWN	I ID INSIDE DIAMETER	PORT PORTABLE POS POSITIVE	TOMTOP OF MASONRYTOPOTOPOGRAPHY	A101 DETAIL SECTION	CONCRETE MASONRY UNITS		INCORPORATING INTO THE WORK. 6. DIMENSIONS NOTED AS "CLEAR" REQUIRE SPECIFIC
	ADJ ADJUSTABLE, ADJACENT AE ARCHITECT/ ENGINEER	DO DITTO DOC DOCUMENT	IN INCHES INCAND INCANDESCENT	PR PAIR PRCST PRECAST	TOSTOP OF STEELTPDTOILET PAPER DISPENSER		STONE		COORDINATION BETWEEN DISCIPLINES AND/OR MANUFACTURERS. 7. DRAWINGS NOTED AT "N.T.S." ARE NOT TO SCALE.
	AFF ABOVE FINISHED FLOOR AGGR AGGREGATE	DOZ DOZEN DR DOOR	INCL INCLUDE INFO INFORMATION	PREFAB PREFABRICATED PREFIN PREFINISHED	TV TELEVISION TYP TYPICAL	A101	CAST STONE		8. DO NOT SCALE DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CLARIFICATION IS REQUIRED
	AHJ AUTHORITIY HAVING JURISDICTION AHU AIR HANDLING UNIT	DS DOWNSPOUT DSGN DESIGN	INSUL INSULATION INT INTERIOR	PRELIM PRELIMINARY PRKG PARKING	U		GROUT		IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS, CONTACT THE ARCHITECT. 9. NOTES OR DIMENSIONS LABELED "TYPICAL" SHALL
<u>M</u>	AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION	DT DRAIN TILE DW DISH WASHER	INTERM INTERMEDIATE	PROJ PROJECT PROP PROPERTY	U HEAT TRANSFER COEFFICIENT UC UNDERCUT	A1/A101 EXTERIOR ELEVATION TAG	05 METALS		APPLY TO SITUATIONS THAT ARE THE SAME OR SIMILAR.
	ALT ALTERNATE ALUM ALUMINUM	DWG DRAWING	J JAN JANITOR JAN CLO JANITOR CLOSET	PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH	UGND UNDERGROUND UH UNIT HEATER UL UNDERWRITERS LABORATORIES	1 (Ref)	ALUMINUM STEEL		
	ANOD ANNODIZED APC ACOUSTICAL PANEL CEILING	E EAST EA EACH	JNT JOINT JR JUNIOR	PT POST TENSIONED PTD PAPER TOWER DISPENSER PTN PARTITION	UNFIN UNFINISH(ED) UNO UNLESS NOTED OTHERWISE	1 (Ref) 1 (Ref) INTERIOR ELEVATION TAG	06 WOODS AND PLASTICS		
	ARCH ARCHITECT(URAL) ASL ABOVE STRUCTURAL LEVEL	EC ELECTRICAL CONTRACTOR EF EACH FACE	JST JOIST	PVC POLYVINYL CHLORIDE (PLASTIC) PWR POWER	UTIL UTILITY UV UNIT VENTILATOR		CONTINUOUS WOOD		
L	AWT ACOUSTICAL WALL TREATMENT	EIFS EXTERIOR INSULATION AND FINISH SYSTEM	K KD KNOCK DOWN	0	V	(Ref)	INTERMITTENT WOOD		
	B BD BASE BOARD	EJ EXPANSION JOINT EL ELEVATION	KIP 1000 POUNDS KIT KITCHEN	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	QTY QUANTITY	VBVINYL BASEVCTVINYL COMPOSITE TILE	Room name 101 ## # EXTERIOR WALL TYPE &	HARDBOARD		
	BD BOARD BDRM BEDROOM BITUM BITUMINOUS	ELEV ELEVATOR ENAM ENAMEL	L	R RISER, RADIUS, HEAT	VENT VENTILATION VERT VERTICAL	##.# EXTERIOR WALL TYPE & INTERIOR PARTITION TYPE SYMBOL	+ + + + + (MDF)		
	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	PARTICLE BOARD		
K	BM BENCHMARK, BEAM BOT BOTTOM	ENVIR ENVIRONMENT EOS EDGE OF SLAB	LAM LAMINATE(D) LAV LAVATORY	RAD RADIATOR RB RUBBER BASE, RESILIENT BASE	VOC VOLATILE ORGANIC COMPOUND VOL VOLUME	BENCHMARK/SPOT ELEV. SYMBOL	SOLID SURFACE MATERIAL		
	BRG BEARING BRZ BRONZE	EP ELECTRIC PANEL EPDM ETHYLENE PROPYLENE DIENE MONOMER	LBL LABEL LBS POUND	RCROOFING CONTRACTORRCPREFLECTED CEILING PLANRDROOF RRAIN	VOL VOLOME VR VAPOR RETARDER VUH VERTICAL UNIT HEATER	XX COLUMN LINE/GRID INDICATOR	07 THERMAL & MOISTURE PROTECTION		General Materials & Equipment Notes: 1. PROVIDE GALVANIC PROTECTION BETWEEN
	BSMT BASEMENT BTWN BETWEEN	EPS EXPANDED POLYSTYRENE BOARD	LD LOAD LF LINEAR FEET LH LATENT HEAT, LEFT HAND	RDROOF DRAINRECRECESSEDREC RMRECREATION ROOM	VWC VERTICAL WALL COVERING	A REVISION INDICATOR	BATT INSULATION		DISSIMILAR METALS. 2. INSTALL PIPING AND CONDUIT TIGHT TO WALLS,
	BURBUILT-UP ROOFINGBWBOTH WAYS	EQ EQUAL EQUIP EQUIPMENT	LIB LIBRARY LIN LINEAR	REF REFRIGERATOR REG REGISTER, REGULATION	W W WATT, WEST	101A DOOR TAG ELEVATION ELEVATION			COLUMNS AND ROOF DECK. 3. SEAL ALL PIPE OR CONDUIT PENETRATIONS WITH APPROPRIATE SEALANT. PROVIDE FIRE SEALANT AT
J	C CADINET	EQUIV EQUIVALENT ETC ET CETERA	LKR LOCKER LKR RM LOCKER ROOM	REINF REINFORCE REQD REQUIRED	W/ WITH W/O WITHOUT	LEVEL NAME FLOOR LEVEL SYMBOL 1t CEILING HEIGHT SYMBOL	RIGID INSULATION		RATED PARTITIONS. 4. PLYWOOD AND WOOD BLOCKING SHALL BE FIRE
	CABCABINETCBCARRIAGE BOLT, CATCH BASINCCTVCLOSED-CIRCUIT TELEVISION	ETR EXISTING TO REMAIN EW EACH WAY	LL LIVE LOAD LLH LONG LEG HORIZONTAL	RESIL RESILIENT REV REVISION	W/WWALL TO WALLWBWOOD BASE	1'-0"A.F.F. PLAN NORTH NORTH ARROWS	GLASS		RESISTANT. 5. DO NOT CUT OR DRILL ANY STRUCTURAL MEMBER, OTHER THAN DESCRIBED ON THE STRUCTURAL
	CD CONSTRUCTION DOCUMENTS, CONTRACT DOCUMENTS	EWCELECTRIC WATER COOLEREWHELECTRIC WATER HEATEREVCEVCAUATE	LLV LONG LEG VERTICAL LT LINOLEUM TILE, LIGHT	RFG ROOFING RFI REQUEST FOR INFORMATION	WC WALL COVERING, WATER CLOSET		09 FINISHES		DRAWINGS, WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
	CEM CEMENT CERT CERTIFY, CERTIFICATE,	EXC EXCAVATE EXH EXHAUST EXIST EXISTING	LTG LIGHTING	RFPREQUEST FOR PROPOSALRHRIGHT HAND, ROOF HATCH	WD WOOD WDW WINDOW WF WIDE FLANGE		LATH AND PLASTER		
	CERTIFICATION CF/CI CONRACTOR FURNISHED/	EXP EXPAND, EXPANSION EXT EXTERIOR	M MACH MATCHLINE	RM ROOM RO ROUGH OPENING	WH WATER HEATER, WALL HUNG WI WROUGHT IRON		GYPSUM BOARD		
H	CONTRACTOR INSTALLED CF/OI CONTRACTOR FURNISHED/ OWNER INSTALLED	F	MACH RM MACHINE ROOM MAHOG MAHOGANY MAINT MAINTENANCE	ROWRIGHT OF WAYRTFRUBBER TILE FLOORRTUROOF TOP UNIT	WM WIRE MESH WP WATER PROOFING,	1 1/2" DIMENSION			
	CG CORNER GUARD CH COAT HOOK	F/F FACE-TO-FACE FA FIRE ALARM	MAINT MAINTENANCE MATL MATERIAL MAX MAXIMUM	RV ROOF VENT RW RESCUE WINDOW	WEATHERPROOF WR WATER REPELENT, WEATHER	ALIGN ALIGN ALIGN TWO WALLS OR			
	CHBD CHALK BOARD CHEM CHEMICAL	FAAP FIRA ALARM ANNUNCIATOR PANEL	MB or MKR MARKERBOARD BD	RWB RUBBER WALL BASE	RESISTANT WSCT WAINSCOT	ALIGN TWO WALLS OR OBJECTS			
	CI CAST IRON CIP CAST-IN-PLACE	FACPFIRE ALARM CONTROL PANELFCUFAN COIL UNIT	MC MECHANICAL CONTRACTOR MDF MEDIUM DENSITY FIBERBAORD	S S SOUTH	WT WEIGHT WWF WELDED WIRE FABRIC				
G	CJ CONTROL JOINT, CONSTRUCTION JOINT	FD FLOOR DRAIN FE FIRE EXTINGUISHER	MDO MEDIUM DENSITY OVERLAY ME MATCH EXISTING	SABSOUND ATTENUATION BATTSSANSANITARY	WWM WELDED WIRE MESH				
	CL CENTER LINE CLG CEILING	FEC FIRE EXTINGUISHER CABINET FIN FINISH	MECH MECHANICAL MECH RM MECHANICAL ROOM	SC SOLID CORE, SHADING COEFFICIENT	X BY				
	CLO CLOSET CLR CLEAR	FIXT FIXTURE FLOUR FLOURESCENT FLR FLOOR	MFR MANUFACTURER MIN MINIMUM	SCHED SCHEDULE SD SOAP DISPENSER	Y Y YD				
	CLRM CLASSROOM CMU CONCRETE MASONRY UNIT CNR CORNER	FNDN FOUNDATION FO FINISHED OPENING	MISC MISCELLANEOUS MM MILIMETER	SECT SECTION SF SQUARE FOOT, SAFETY FACTOR					
	CNTR COUNTER COL COLUMN	FRJS FIRE RESISTIVE JOINT SYSTEM FRP FIBERGLASS REINFORCED	MO MASONRY OPENING MOD BIT MODIFIED BITUMEN MTD MOUNTED	SGT STRUCTURAL GLAZED TILE SHR SHOWER SHT SHEET					
F	CONC CONCRETE CONF CONFERENCE	PLASTIC FRTW FIRE RETARDANT TREATED	MTL METAL, MATERIAL MULL MULLION	SIM SIMILAR SIM SANITARY NAPKIN DISPENSER					
	CONN CONNECT(ION) CONSTR CONSTRUCTION	WOOD FT FOOT, FEET	Ν	SOGSLAB ON GRADESPCSUSPENDED SPLASTER CEILING					
	CONT CONTINUOUS CONTR CONTRCT(OR)	FTG FOOTING FURN FURNITURE FW FIRE WALL	N NORTH NA NOT APPLICABLE	SPECSPECIFICATION(S)SPKRSPEAKER					
	COORD COORDINATE, COORDINATION CORR CORRIDOR	FWC FABRIC WALL COVERING	NIC NOT IN CONTRACT NO or # NUMBER	SQ SQUARE SST STAINLESS STEEL					
E	CPT CARPET CSK COUNTERSINK	G GA GAGE	NOM NOMINAL NORM NORMAL	STCSOUND TRANSMISSION CLASSSTDSTANDARDSTOPSTANDARD					
	CSWK CASEWORK CT CERAMIC TILE CTR CENTER	GAL GALLON GALV GALVANIZED	NTS NOT TO SCALE	STOR STORAGE STRM STOREROOM STRUCT STRUCTURAL					
	CTRL CONTROL CU CUBIC	GALV STL GALVANIZED STEEL GB GRAB BAR	O/A OVERALL O/O OUT TO OUT	SUB UBSTITUTE SUB FL SUBFLOOR					
	CUH CABINET UNIT HEATER CUST CUSTODIAL	GC GENERAL CONTRACTOR GEN GENERAL, GENERATOR	OC ON CENTER OD OUTSIDE DIAMETER	SUSP SUSPENDED SUSP CLG SUSPENDED CEILING					
	CW COLD WATER, CASEMENT WINDOW	GFCI GROUND FAULT CIRCUIT INTERRUPTER GFRC GLASS FIBER RINFORCED	OF/ OI OWNER FURNISHED/ OWNER INSTALLED	SVSAFETY VALVE, SHEET VINYLSWBDSWITCHBOARD					
D		CONCRETE GFRG GLASS FIBER REINFORCED	OF/CI OWNER FURNISEHD/ CONTRACTOR INSTALLED	SY SQUARE YARD SYM SYMBOL					
		GYPSUM GL GLASS, GROUND LEVEL	OFF OFFICE OH OVERHANG	SYS SYSTEM					
		GL BLK GLASS BLOCK GLU LAM GLUED LAMINATED BEAM	OH DR OVERHEAD DOOR OPH OPPOSITE HAND						
		GLZ GLAZING GWT GLAZED WALL TILE	OPNG OPENING OPP OPPOSITE OPT OPTIONAL, OPTIMUM						
C		GYM GYMNASIUM GYP GYPSUM GYP BD GYPSUM BOARD							
		GYP BD GYPSUM BOARD GYP PLAS GYPSUM PLASTER							
В									
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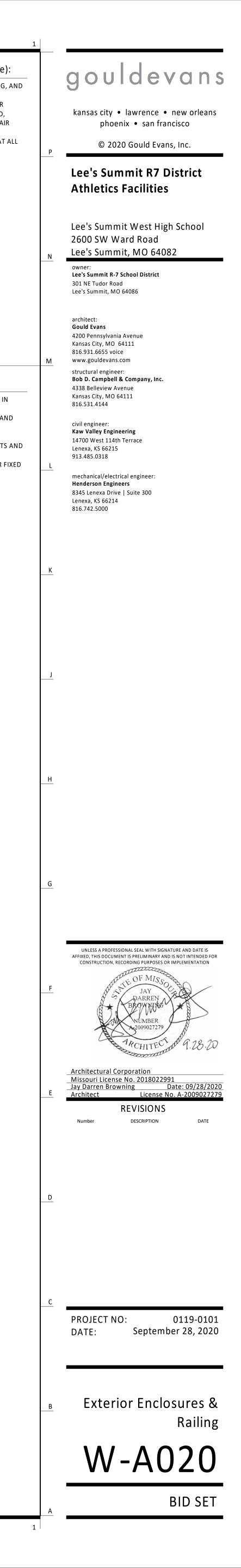


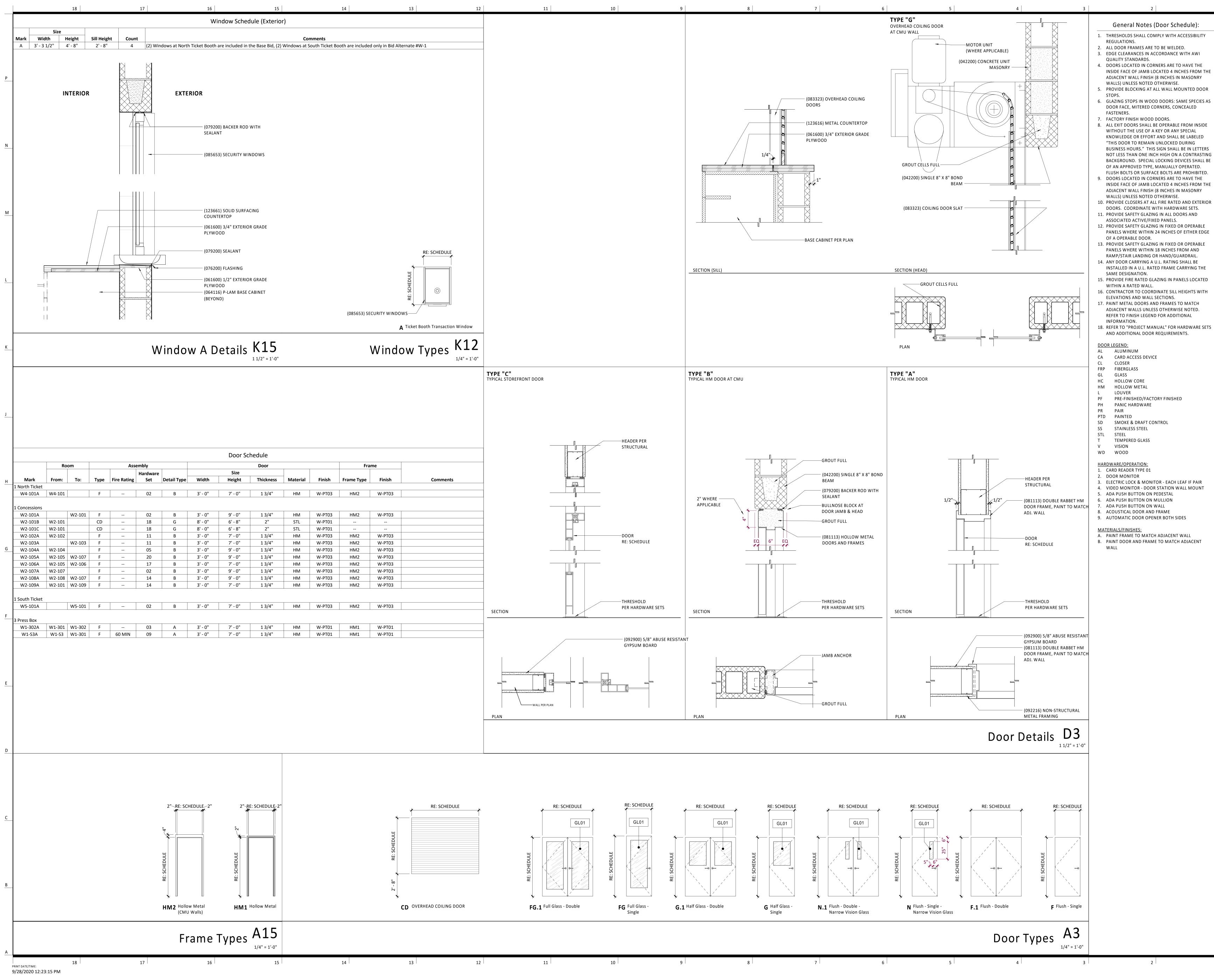


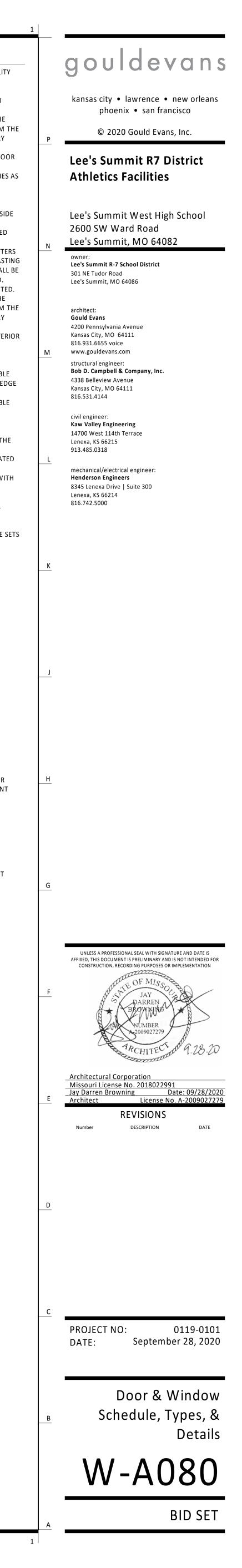


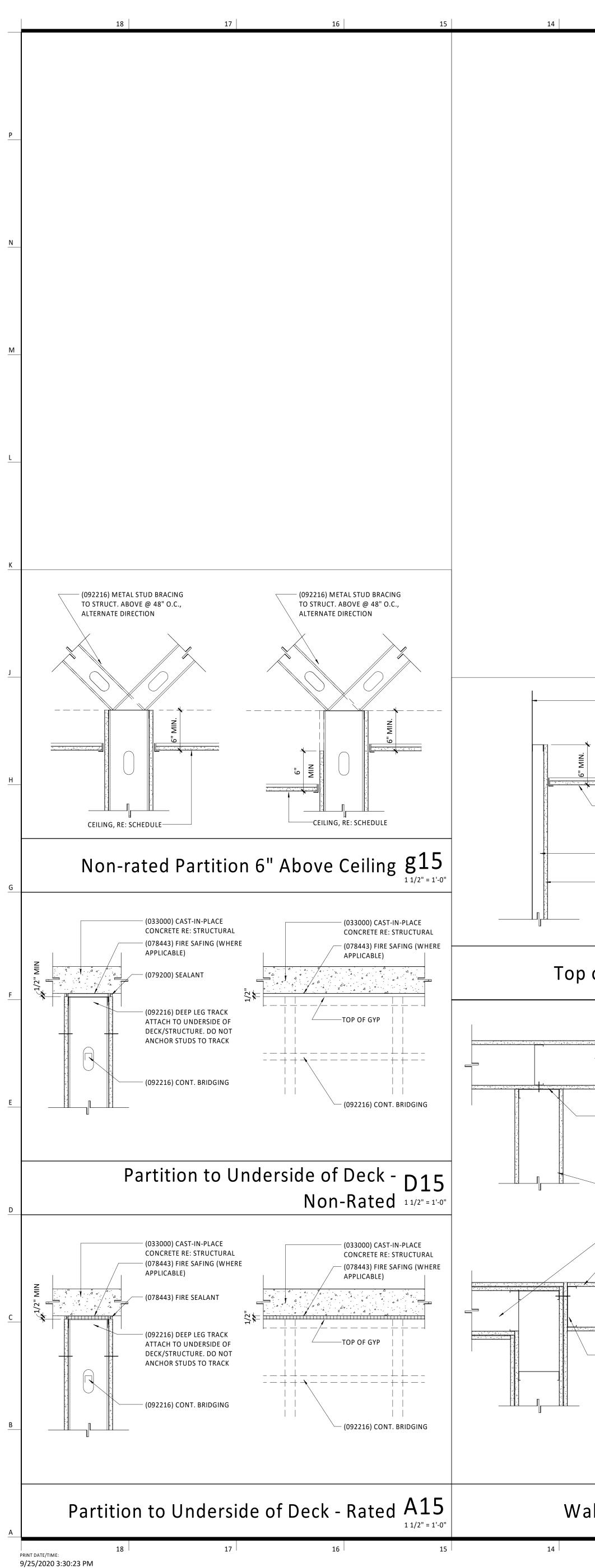
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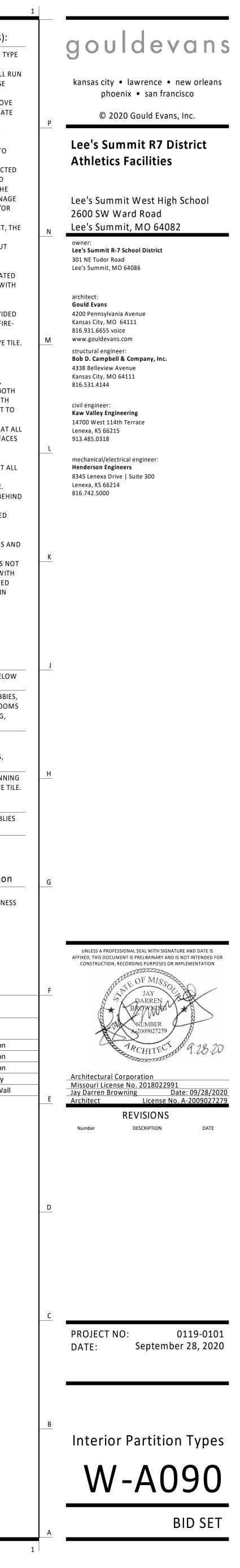


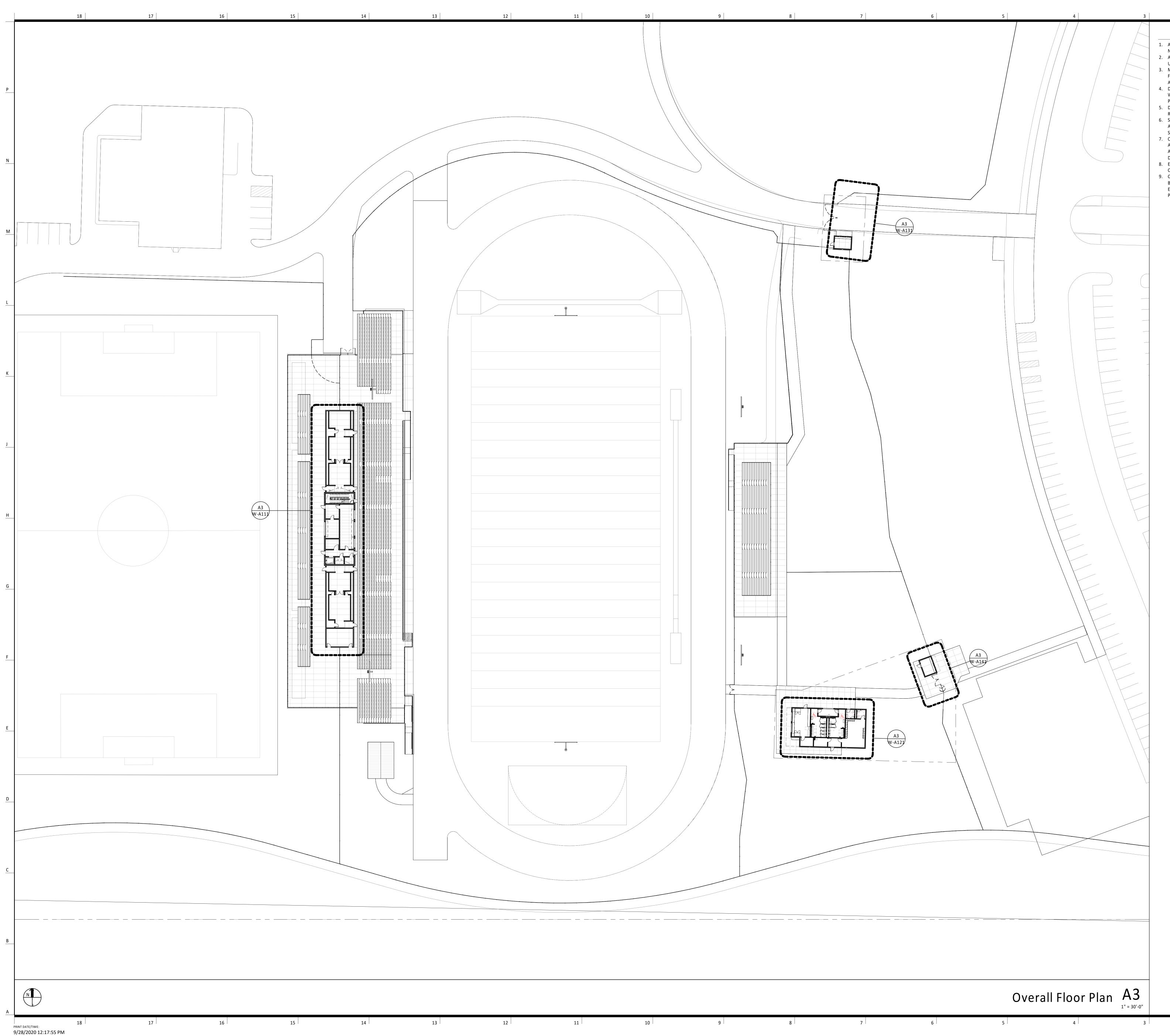






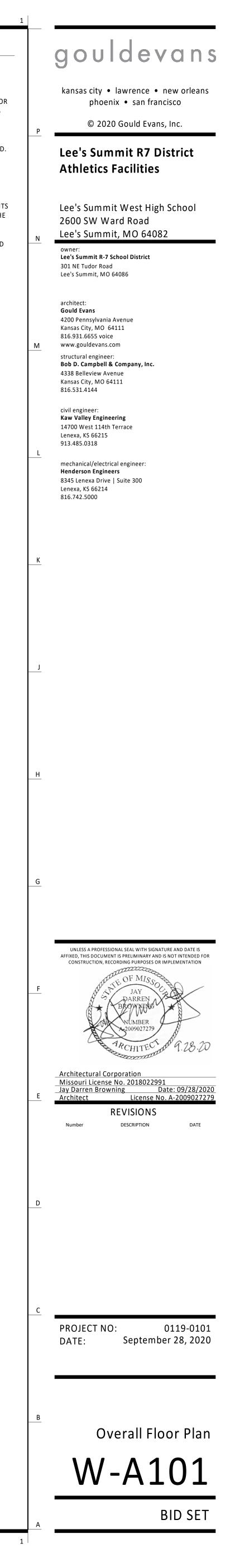
	NOTES]			General Notes (Int	terior Parti
	NOTES: 1. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION	PARTITION IDENTIFICATION PLAN SYMBOL	M6	M8	M8.2			1. REFER TO PLANS/CODE PL	
		BASE PARTITION THICKNESS MASONRY MATERIAL	5 5/8" CMU	7 5/8" CMU	7 5/8" CMU			LOCATIONS. 2. PARTITION TYPES DESIGN/ FROM CORNER TO CORNE	
		MASONRY SIZE (NOMINAL)	6x8X16	8x8X16	8x8X16			NOTED. 3. PARTITIONS SHALL EXTEN	ID TO STRUC
		BEARING WALL	-		-			AND SHALL BE CONSTRUC DEFLECTION UNLESS NOT 4. FIRE-RESISTANCE-RATED P	ED OTHERWI
	SEISMIC ANGLES PER STRUCTURAL (079200) JOINT SEALANTS							CONSTRUCTED IN ACCORE REFERENCED ASSEMBLY D	DANCE WITH
	(078443) FIRE SAFING (WHERE							CODE PLANS FOR MORE IN 5. FIRE-RATED WALLS REQUI OPENINGS SHALL BE PERM	IRED TO HAV
	APPLICABLE)	FIRE RATING (HRS)	-	-	2			WITH SIGNS OR STENCILIN AUTHORITY HAVING JURIS	NG ACCEPTAI
		FIRE TEST NUMBER FIRE TEST NUMBER (HEAD OF WALL)	-		UL-U905 HW-D-0155			SHOULD BE ABOVE ACCES BELOW ACCESSIBLE FLOOD	SSIBLE CEILIN DRS.
	(042200) STARTER COURSE	(078443) FIRE RESISTIVE JOINTS			YES -			6. WHERE DIFFERENT PARTIT PARTITION TYPE WITH THE RESISTANCE RATING SHAL	IE GREATER F
	DOWELED TO SLAB RE: STRUCTURAL		-	-	-			INTERRUPTION. 7. PENETRATIONS OF FIRE-RI	
					-			ASSEMBLIES SHALL BE PRO PENETRATION PROTECTIO	ON IN ACCO
		TO 6" ABOVE CEILING	NO	NO	NO			AN APPROVED UNDERWR SYSTEM. 8. FIRE DAMPERS OR FIRE DO	
		TO STRUCTURE ABOVE	YES	YES	YES			WHERE AIR DUCTS OR OP RATED PARTITIONS.	PENINGS PEN
	PARTITION SYSTEM: CONCRETE MASONRY UNIT PARTITION							9. AT ALL WET AREAS AND LO COORDINATE THE SUBSTR PROJECT MANUAL. EXTEN MINIMUM OF 4'-0" BEYON 10. USE ACOUSTICAL SEALAN DUCTS, CONDUIT, JUNCTIO	RATE MATER ND THE SUB ND THE WET
		PARTITION IDENTIFICATION PLAN	S2.1					SIDES OF CROSSING / PEN ACOUSTICAL RATINGS. CO	NETRATING V
	1. REFER TO GYPSUM BOARD SCHEDULE FOR MORE INFORMATION 2. USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS	SYMBOL BASE PARTITION THICKNESS	3 1/8"					THE ADJACENT WALL COL 11. PROVIDE IMPACT RESISTA EDGES OF PLASTER AND G	ANT TRIM OF
		STUD SPACING (O.C.) STUD SIZE	24" 2 1/2" CH	_				WHERE IT TERMINATES OF MATERIAL, UNLESS NOTED	R MEETS AN
		GWB THICKNESS	5/8"	_				12. PROVIDE IMPACT RESISTA OUTSIDE CORNERS OF PLA	ANT CORNEF ASTER AND
	(078443) FIRE SEALANT	SHAFT LINER THICKNESS	1"	_				BOARD SURFACES, UNLESS 13. CONTRACTOR TO PROVIDE ALL TOILET ROOM ACCESS	E WOOD BL
	(092216) DOUBLE-RUNNER SYSTEM		-	_				HANDRAILS, WOOD TRIM, FIXTURES.	, AND WALI
	GYDYLIN (092900) 5/8" ABUSE RESISTANT GYPSUM BOARD		1	-				14. INSTALL CONTROL JOINTS CONSTRUCTION AS SHOW IN PARTITIONS AND WALL	VN ON THE
		FIRE RATING (HRS) FIRE TEST NUMBER	1 UL -U415	_				EXCEEDING 30 FEET, SPAC MORE THAN 30 FEET O.C.	CING CONTR
		FIRE TEST NUMBER (HEAD OF WALL) (078443) FIRE RESISTIVE JOINTS	HW-D-0584 YES	_				ARCHITECT. INSTALL CONT ASSEMBLIES WHERE CONT	TROL JOINT
	(092900) 1" GYPSUM CORE BOARD			_				BASE EXTERIOR WALL.	
	(092216) 2 1/2" METAL RUNNER			_					
	(078443) FIRE SEALANT			_				Gypsum Boar	rd Sched
		TO STRUCTURE ABOVE	YES	_				5/8" GYPSUM ALL LOCATION BOARD OR DETAILED	OTHERWIS
—FACE OF WALL	PARTITION SYSTEM:	REMARKES:		_				5/8" ABUSE HIGH TRAFFIC RESISTANT PUBLIC CORR GYPSUM SUCH AS: JAN	RIDORS AND
	GYPSUM SEPARATION PARTITION							MECHANICAL	L, ETC.
								MAT BACKING PLUMBING FI BOARD FOUNTAINS,	TOILETS, LA
	NOTES: 1. CONFIRM STUD SPACING WITH STRUCTURAL	PARTITION IDENTIFICATION PLAN SYMBOL	F1	F4	F4a	F6	F6a	URINALS, ETC 1/2" FIBER WALLS EXPOS	SED DIRECT
— CEILING, RE: SCHEDULE	2. WALLS AT EXTERIOR PRECAST MUST EXTEND TO STRUCTURE TO MAINTAIN THERMAL BARRIER.	BASE PARTITION THICKNESS	2 1/4"	4 1/4"	4 1/4"	6 5/8	6 5/8"	CEMENT WATER AND S BACKING BATHTUBS, SP PANELS	
		STUD SPACING (O.C.) STUD SIZE	16" 1 5/8"	16" 3 5/8"	16" 3 5/8"	16" 6"	16" 6"	1" SHAFT INTERIOR OF LINER PANELS	SHAFT WAL
— (092216) FURRED SPACE SEE		GWB THICKNESS	5/8"	5/8"	5/8"	5/8"	5/8"		
PLAN FOR SIZE — PARTITION, RE: PLAN	(079200) SEALANT								
	(092216) 3 5/8" METAL RUNNER	FIRE RATING (HRS)			-	-	-	Interior Partition Na PARTITION M	1ATERIAL TY
	(092900) 5/8" ABUSE RESISTANT	FIRE TEST NUMBER			-	-	-		
	GYPSUM BOARD	FIRE RESISTIVE JOINTS (079500)		-	-	-	-	G6.1	
rring Wall F12		ACOUSTIC RATING (STC)			34	-	37		
1 1/2" = 1'-0"		ACOUSTICAL TEST NUMBER RESILIENT CHANNELS			NGC2013012	-	NGC2013021 -		
	(092216) 3 5/8" METAL RUNNER	INSULATION THICKNES		-	3 1/2" YES	-	6" YES	Interior Part	ition Typ
	(079200) SEALANT	(079219) ACOUSTICAL JOINTS TO 6" ABOVE CEILING	YES	YES	YES NO	YES	NO	FireMarkWidthRating	Type Co
-RATED WALL ASSEMBLY		GWB STRUCTURE ABOVE STUDS TO STRUCTURE ABOVE	NO NO	NO*	YES YES	NO NO	YES YES	F4 4 1/4" NR (092900) G ¹ G4 4 7/8" NR (092900) G ¹	Sypsum Boa
(1 HR SHOWN)	PARTITION SYSTEM:	REMARKES:		* SEE NOTE #2		* SEE NOTE #2		G4.1 4 7/8" 1 HR (092900) G M6 5 5/8" NR (042200) C	Concrete Un
	GYPSUM FURING PARTITION							S2.1 3 1/8" 1 HR (092116) G	ypsum Boa
- (078413) CONTINUE GYP. BD BEHIND STUD - PROVIDE PROPER PENETRATION		7] [
PROTECTION AT PENETRATIONS OF WIRE, CONDUIT, ETC. AT	NOTES: 1. CONFIRM STUD SPACING WITH STRUCTURAL	PARTITION IDENTIFICATION PLAN SYMBOL	G4	G4a	G4.1	G4.2	G6		
THIS AREA	2. PROVIDE MOISTURE RESISTANT GWB IN WET AREAS 3. EXTEND ALL FIRE RATED WALLS STRUCTURE TO STRUCTURE.	BASE PARTITION THICKNESS	4 7/8"	4 7/8"	4 7/8"	6 1/8" 16"	7 1/4"		
-NON RATED WALL ASSEMBLY	4. USE TYPE "X" GWB FOR ALL FIRE RATED PARTITIONS	STUD SPACING (O.C.) STUD SIZE	3 5/8"	3 5/8"	3 5/8"	3 5/8"	6"		
		GWB THICKNESS	5/8"	5/8"	5/8" X -	(2) 5/8"X -	5/8"		
–RATED WALL ASSEMBLY (2 HR SHOWN)	(079200) SEALANT								
-NON RATED WALL ASSEMBLY	(092216) DOUBLE-RUNNER SYSTEM	FIRE RATING (HRS)		-	1	2	-		
	(092900) 5/8" ABUSE RESISTANT GYPSUM BOARD	FIRE TEST NUMBER FIRE TEST NUMBER (HEAD OF WALL)			U419 HW-D-0218	U419 HW-D-0218	-		
		(078443) FIRE RESISTIVE JOINTS		-	YES	YES	-		
		ACOUSTIC RATING (STC)		44	-	-	-		
- (078413) CONTINUE GYP. BD	(072100) BATT INSULATION	ACOUSTICAL TEST NUMBER RESILIENT CHANNELS		NGC2514 NO	-	-	-		
BEHIND STUD - PROVIDE PROPER PENETRATION PROTECTION AT PENETRATIONS	(079200) SEALANT	INSULATION THICKNES ACOUSTICAL JOINTS (079219)		2 1/2" YES	-	-	-		
OF WIRE, CONDUIT, ETC. AT THIS AREA		TO 6" ABOVE CEILING	NO	NO	NO	NO	YES		
		GWB STRUCTURE ABOVE STUDS TO STRUCTURE ABOVE	NO YES	YES YES	YES	YES YES	NO NO		
	PARTITION SYSTEM:GYPSUM WALL BOARD PARTITIONG	REMARKES:							
ersections A12								Interior Partition Types A3	

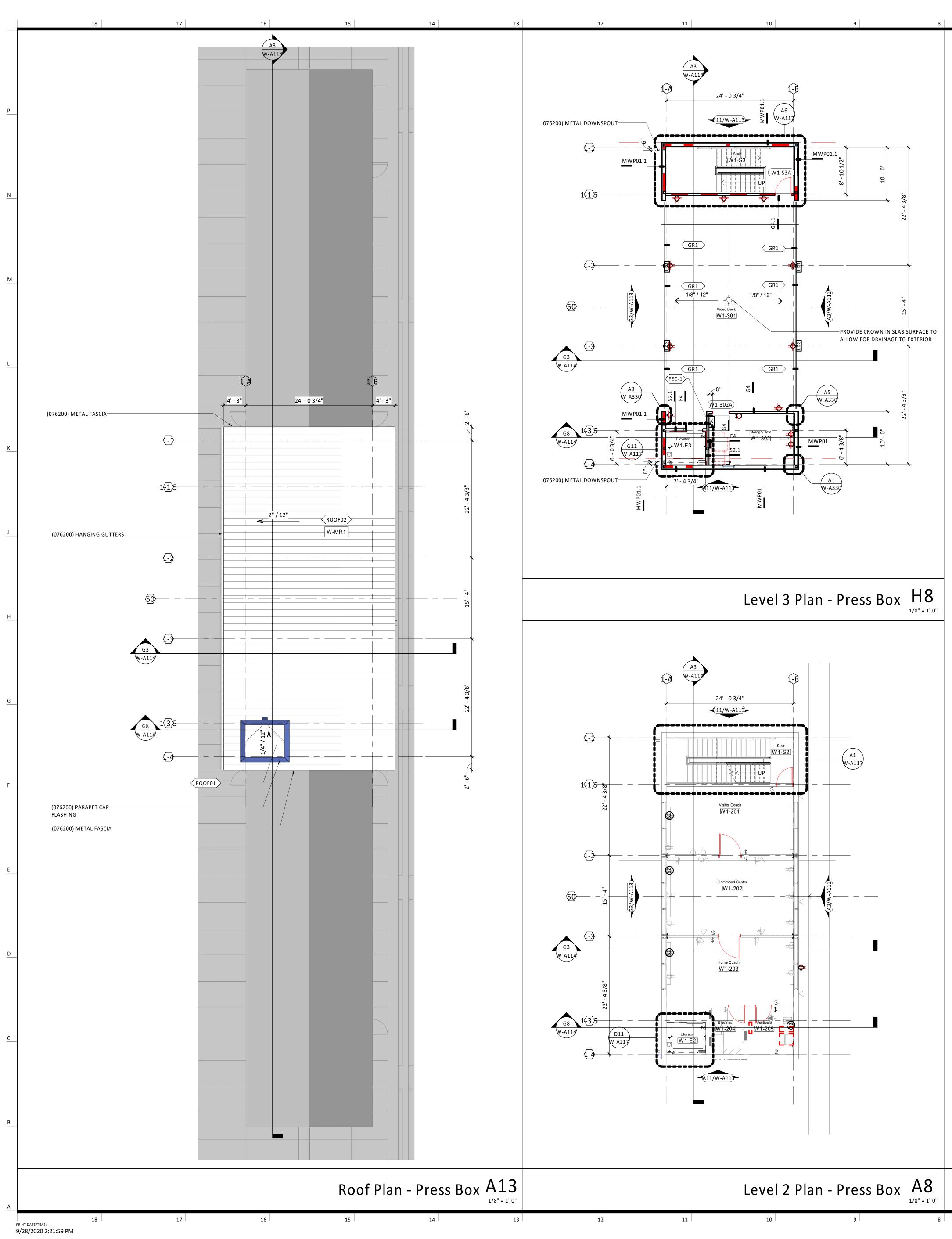


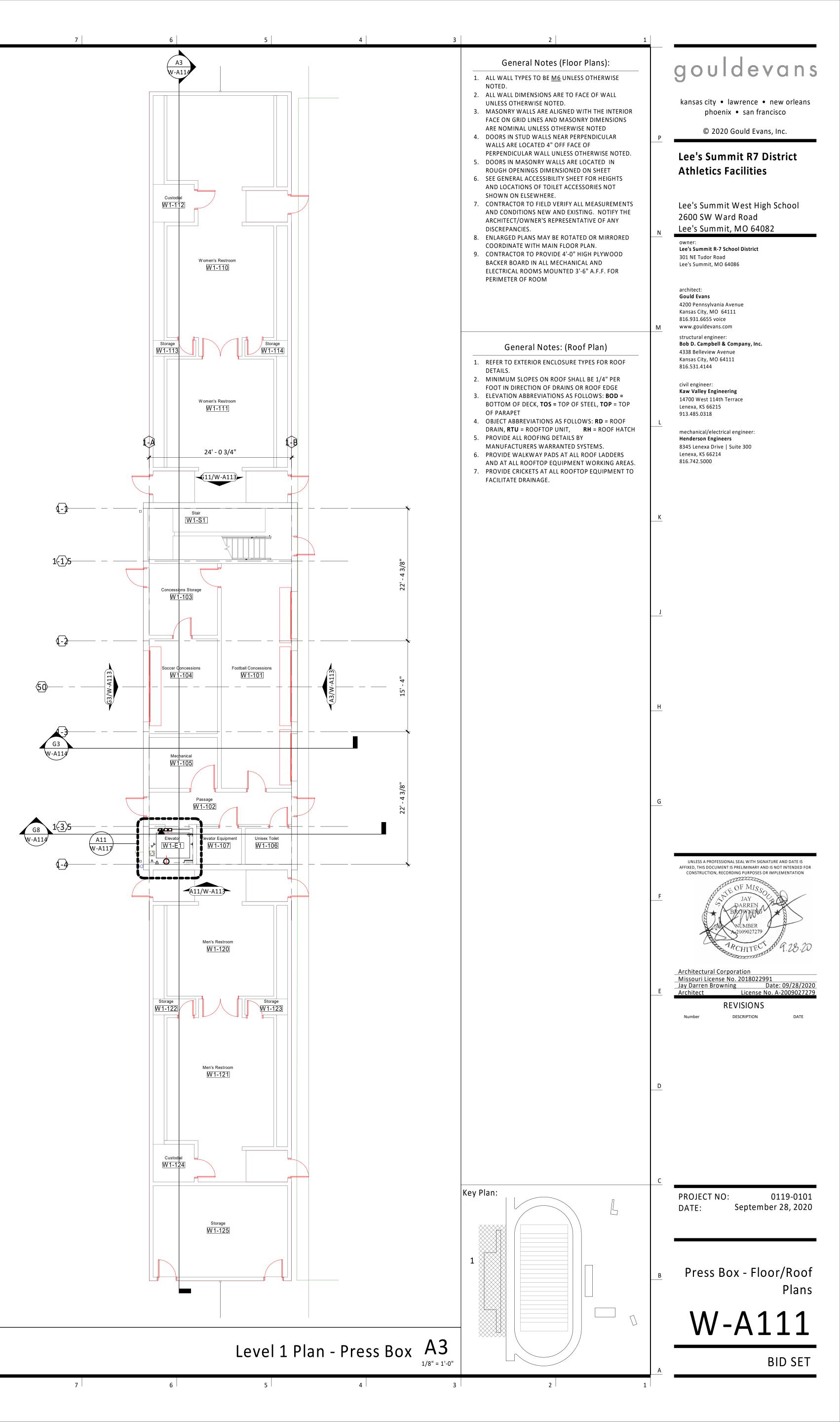


General Notes (Floor Plans): 1. ALL WALL TYPES TO BE <u>M6</u> UNLESS OTHERWISE NOTED. 2. ALL WALL DIMENSIONS ARE TO FACE OF WALL UNLESS OTHERWISE NOTED.

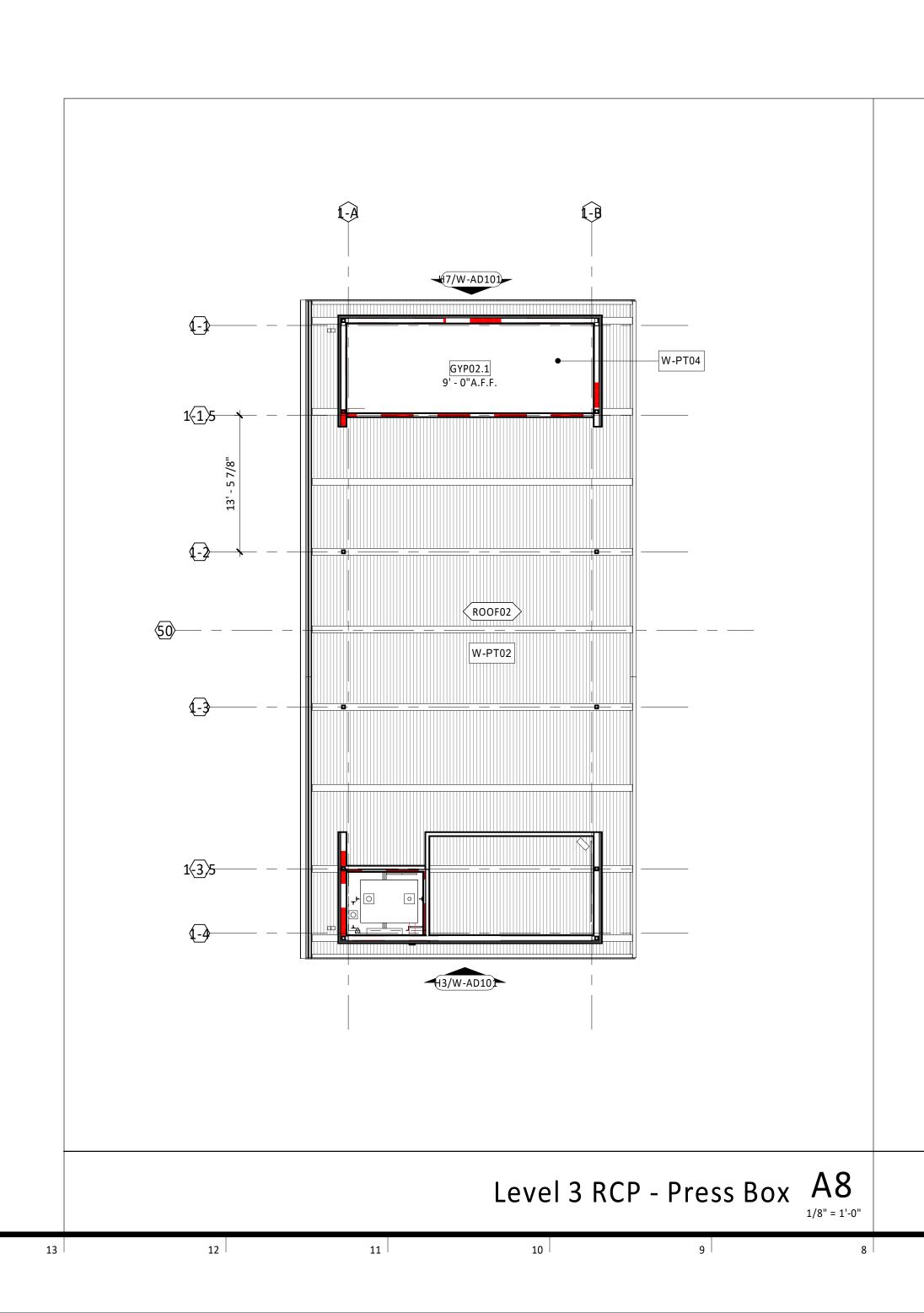
- 3. MASONRY WALLS ARE ALIGNED WITH THE INTERIOR FACE ON GRID LINES AND MASONRY DIMENSIONS ARE NOMINAL UNLESS OTHERWISE NOTED 4. DOORS IN STUD WALLS NEAR PERPENDICULAR
- WALLS ARE LOCATED 4" OFF FACE OF PERPENDICULAR WALL UNLESS OTHERWISE NOTED.
- 5. DOORS IN MASONRY WALLS ARE LOCATED IN ROUGH OPENINGS DIMENSIONED ON SHEET
- 6. SEE GENERAL ACCESSIBILITY SHEET FOR HEIGHTS AND LOCATIONS OF TOILET ACCESSORIES NOT SHOWN ON ELSEWHERE.
- 7. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS NEW AND EXISTING. NOTIFY THE ARCHITECT/OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- 8. ENLARGED PLANS MAY BE ROTATED OR MIRRORED COORDINATE WITH MAIN FLOOR PLAN.
- 9. 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





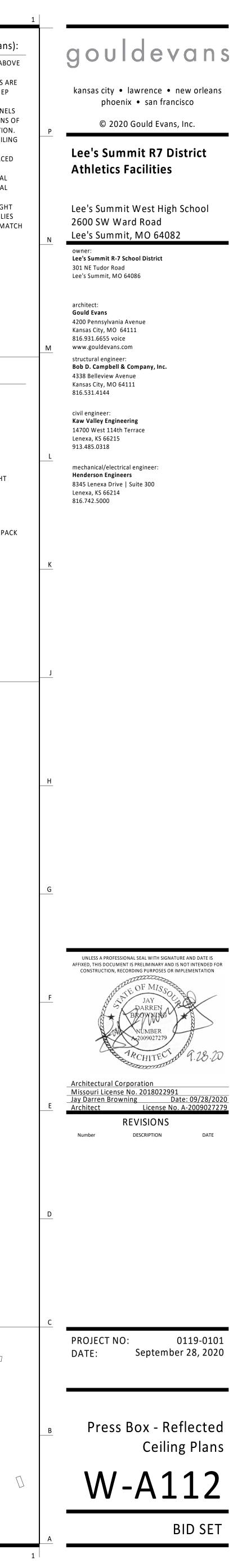


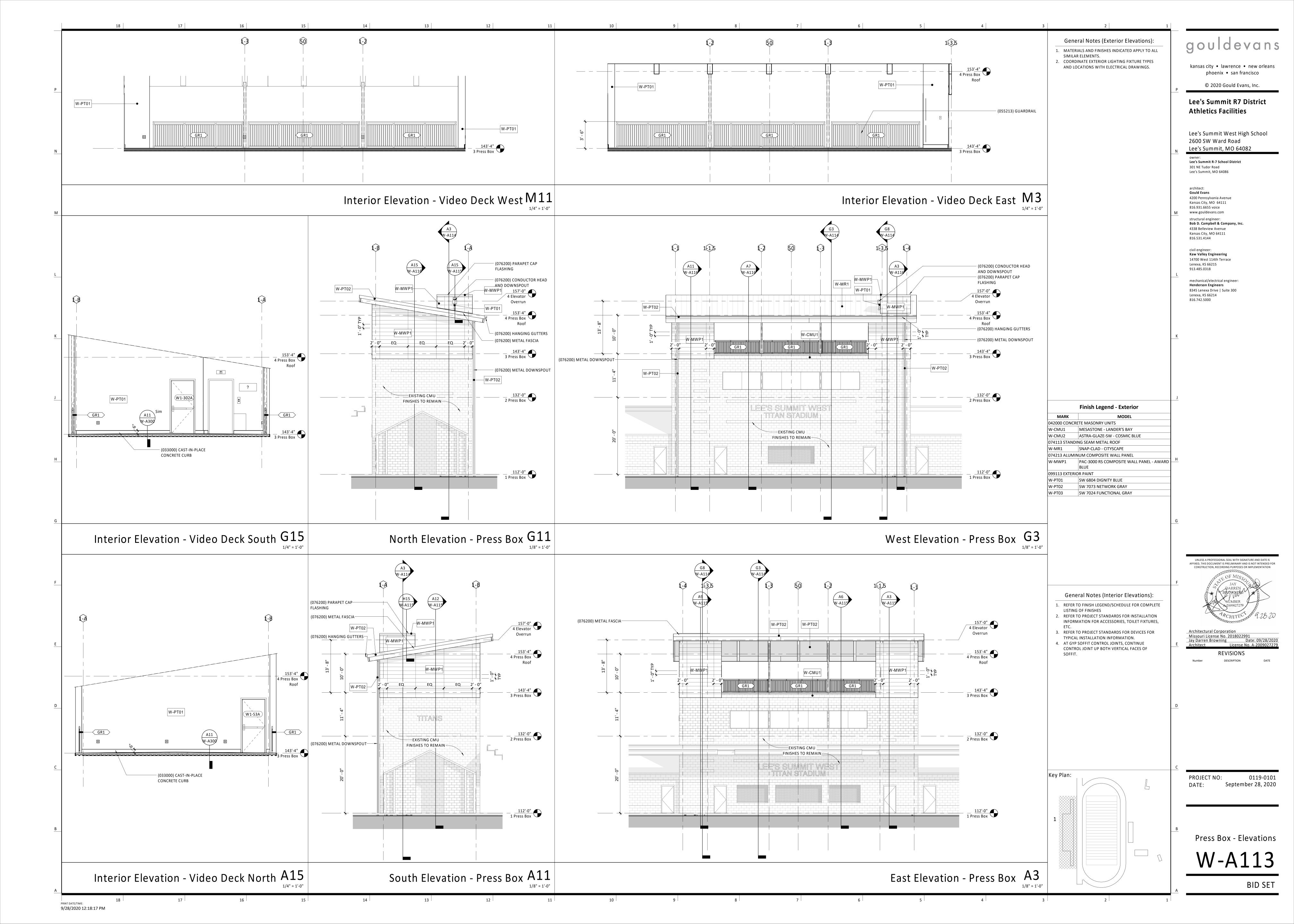
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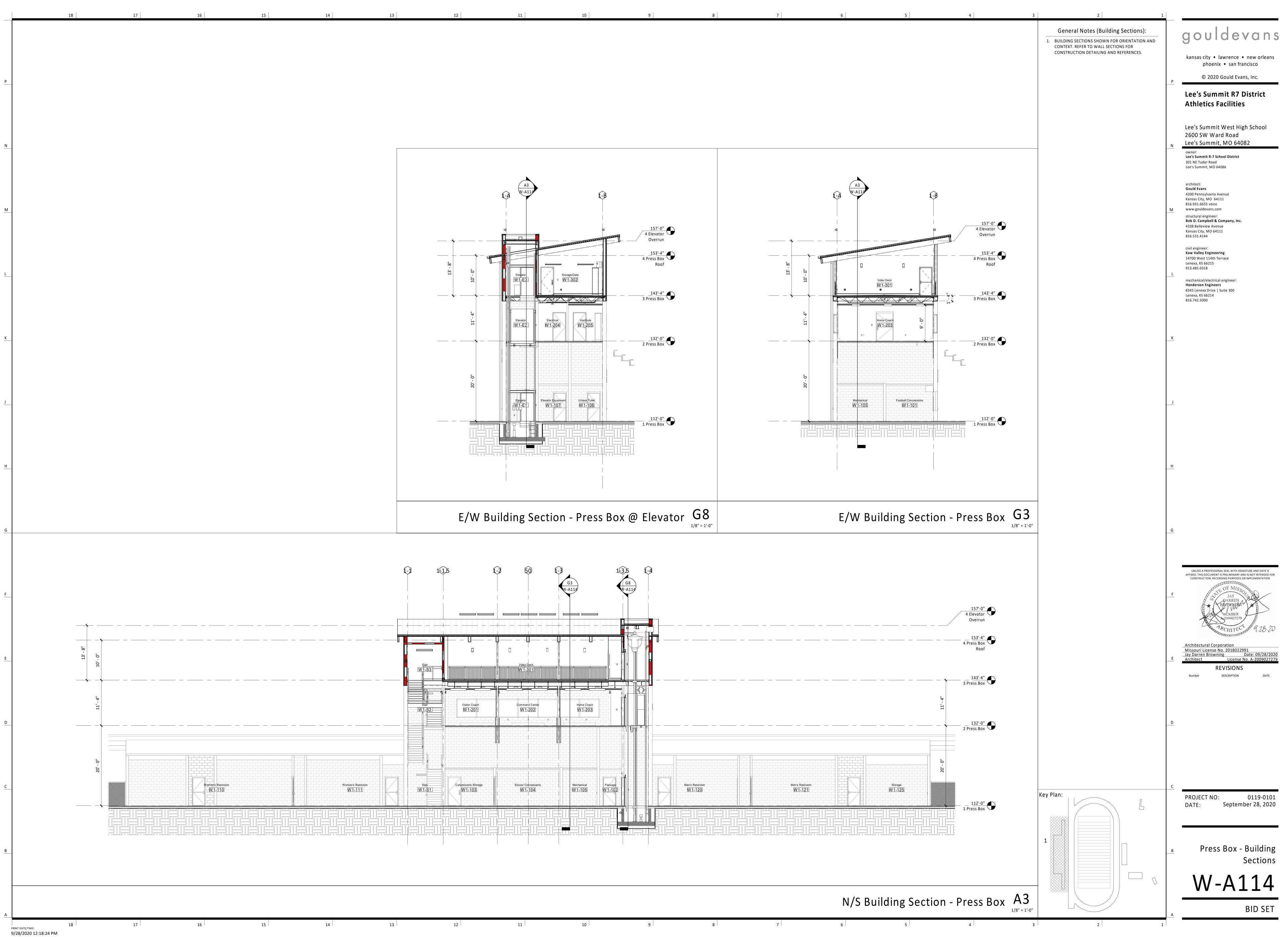


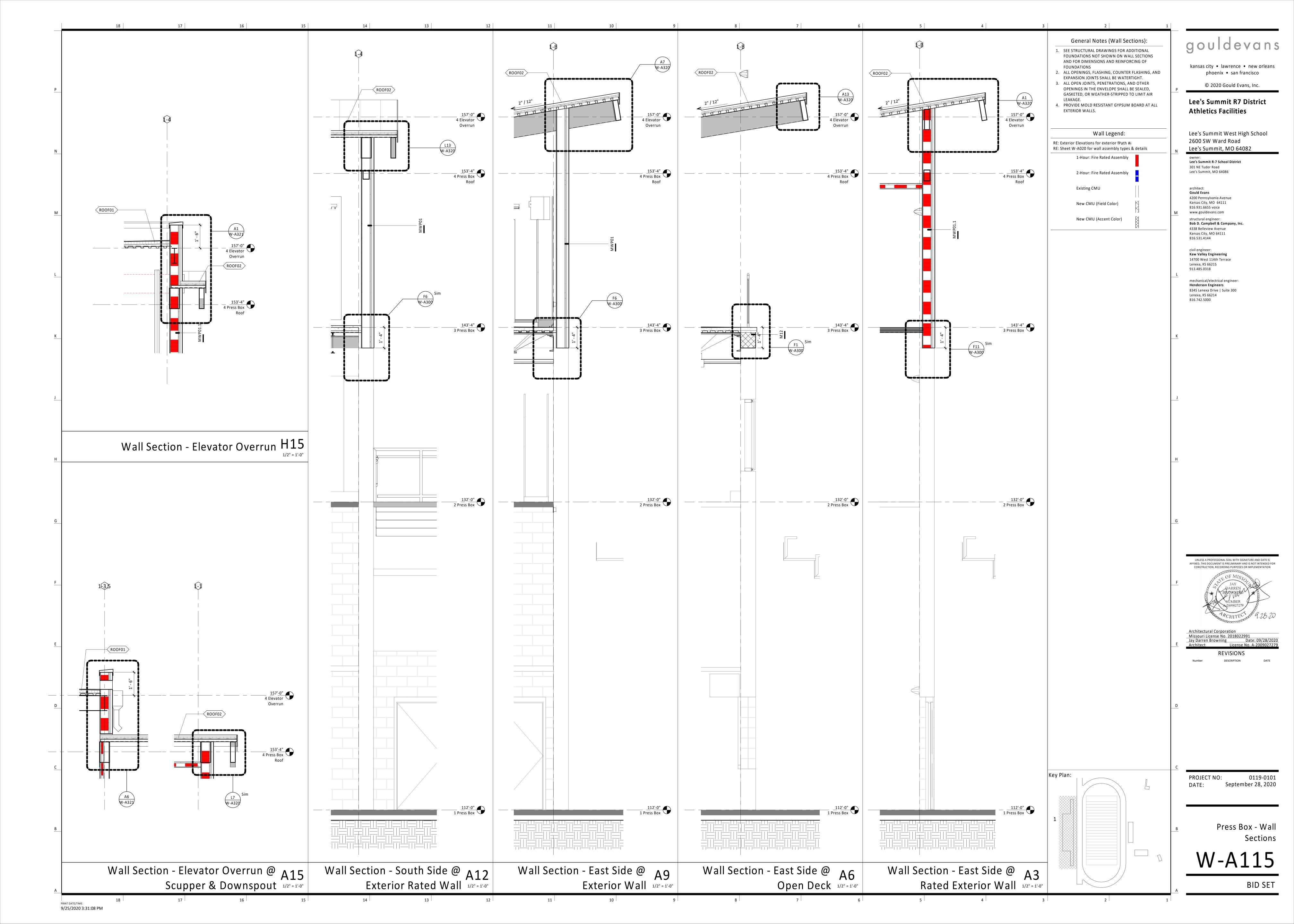
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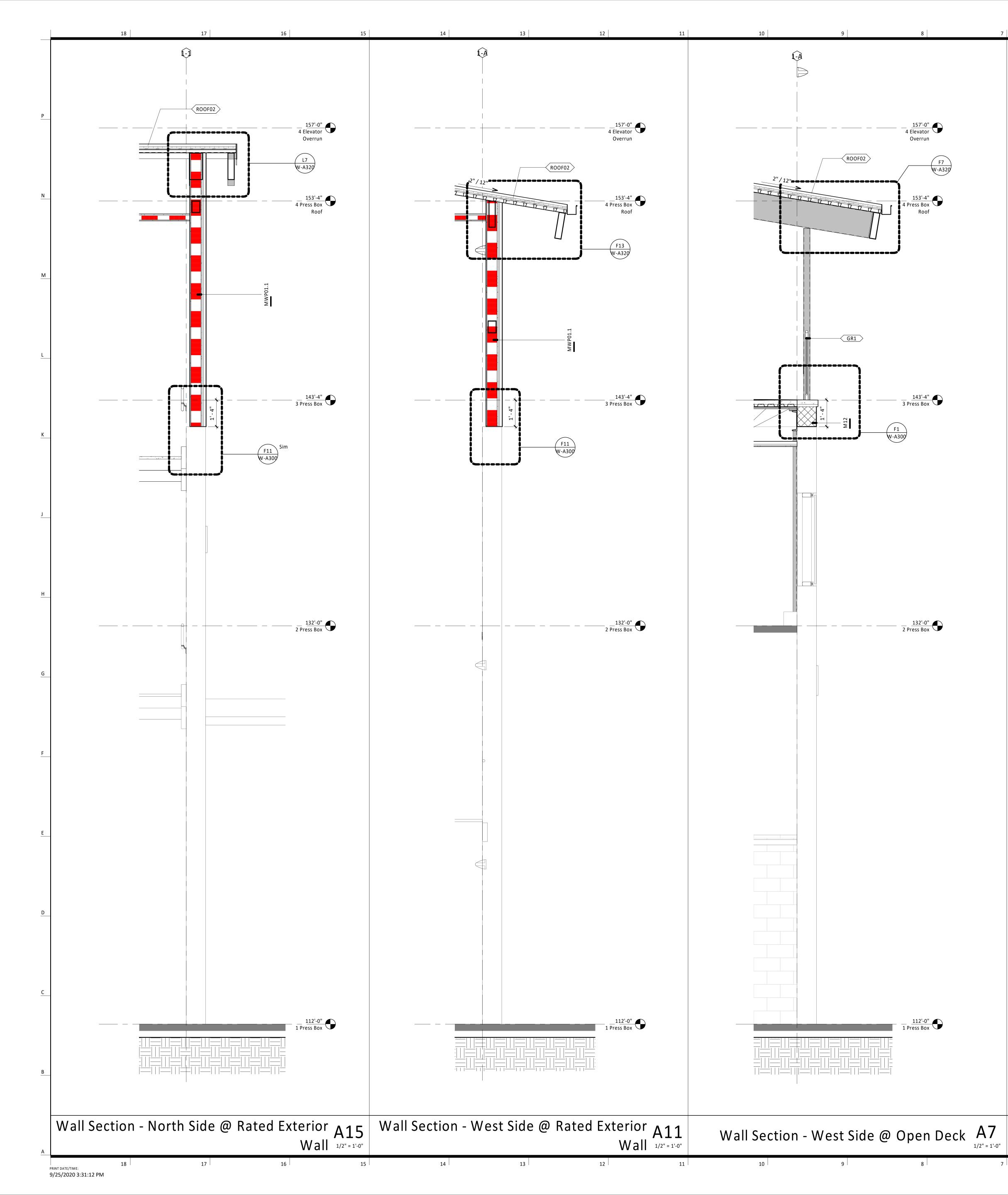
	7	6	5	4	3	2
					General Notes (Re 1. ALL CEILING AND SOF FINISHED FLOOR ELEV 2. GENERALLY ONLY CEIL SHOWN ON THIS PLAT PLANS FOR ADDITION 3. VERIFY LOCATIONS OF WITH MEP DRAWINGS PANELS WITH ARCHIT ACCESS PANEL FIRE RA ASSEMBLY FIRE RATIN 4. LIGHTING FIXTURES TO EQUALLY UNLESS NOT 5. LIGHT FIXTURES ARE S PURPOSES ONLY COO DRAWINGS FOR FIXTU 6. IF PROJECT INCLUDES FIXTURES LOCATED IN	eflected Ceiling Plans) FIT HEIGHTS ARE GIVEN ABOV (ATION (EL. 0'-0") LING MOUNTED FIXTURES ARI N. COORDINATE WITH MEP IAL INFORMATION. F ALL CEILING ACCESS PANELS S. COORDINATE LOCATIONS O TECT PRIOR TO INSTALLATION. ATINGS MUST MATCH CEILING IGS. O BE CENTERED AND SPACED TED OTHERWISE. SHOWN FOR DIMENSIONAL RDINATE WITH ELECTRICAL
					Lighting F 	Fixture Legend: 2X4 FLORESCENT 2X2 FLORESCENT 2X2 FLORESCENT STRIP FLORESCENT RECESSED CAN LIGHT CEILING FAN EMERGENCY WALL PACH TRACK LIGHTING
						STEP LIGHT COVE LIGHT
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50)			© © © © © © © © © © © © © © © © © © ©	— — REINSTALL EXISTING LIGHTING IN NEW CEILING, TYP.		
	()→		© © © © © © © © © © © © © © © © © © ©	PROVIDE FRAMING AND BACKING ABOVE CEILING FOR REINSTALLATION OF OVERHEAD DOOR TRACKS		
1	1 <3 >5	0	W-PT04		Key Plan:	
_			Level 2 R	$CP - Press Box A3_{\frac{1}{8} = 1}$	B	

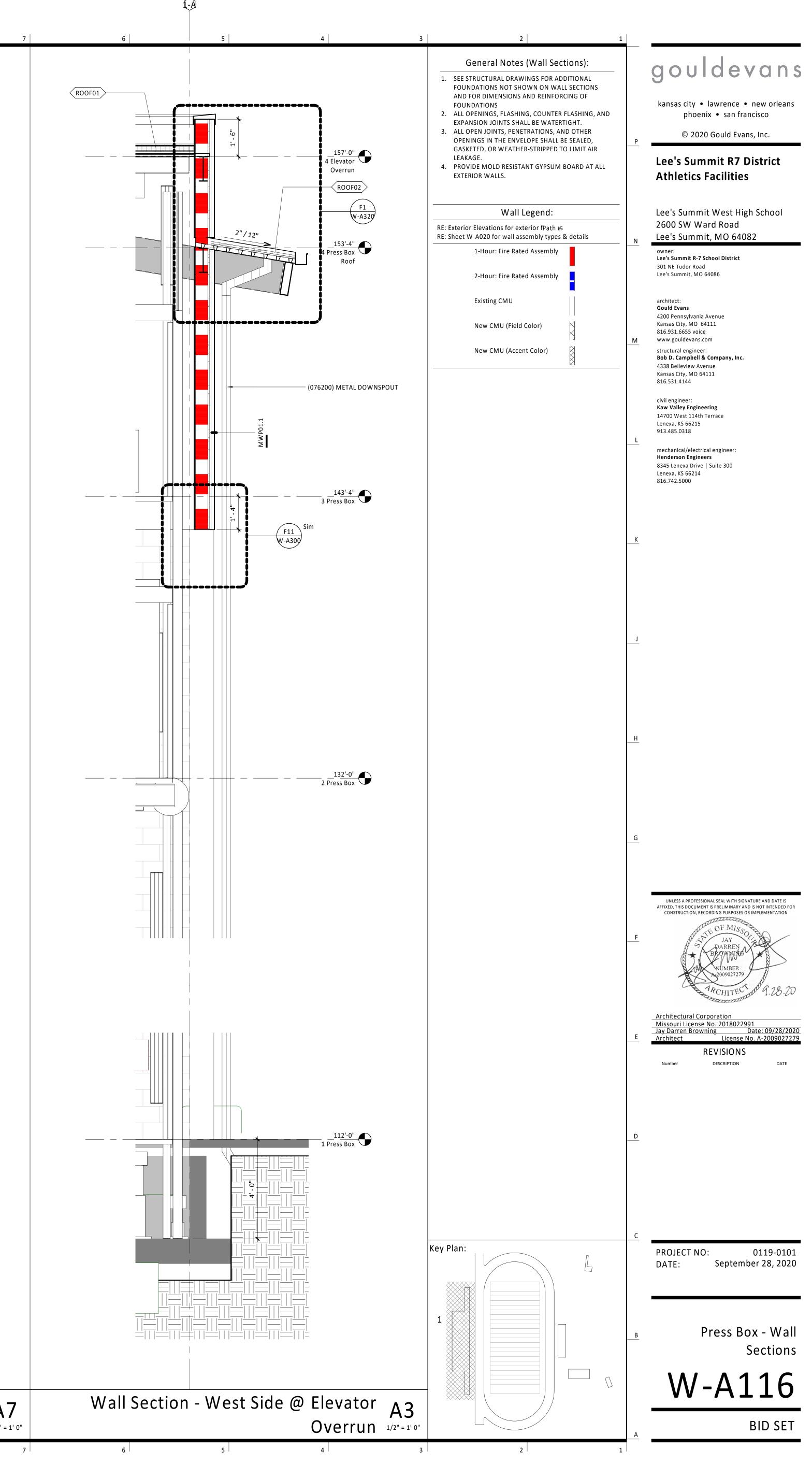


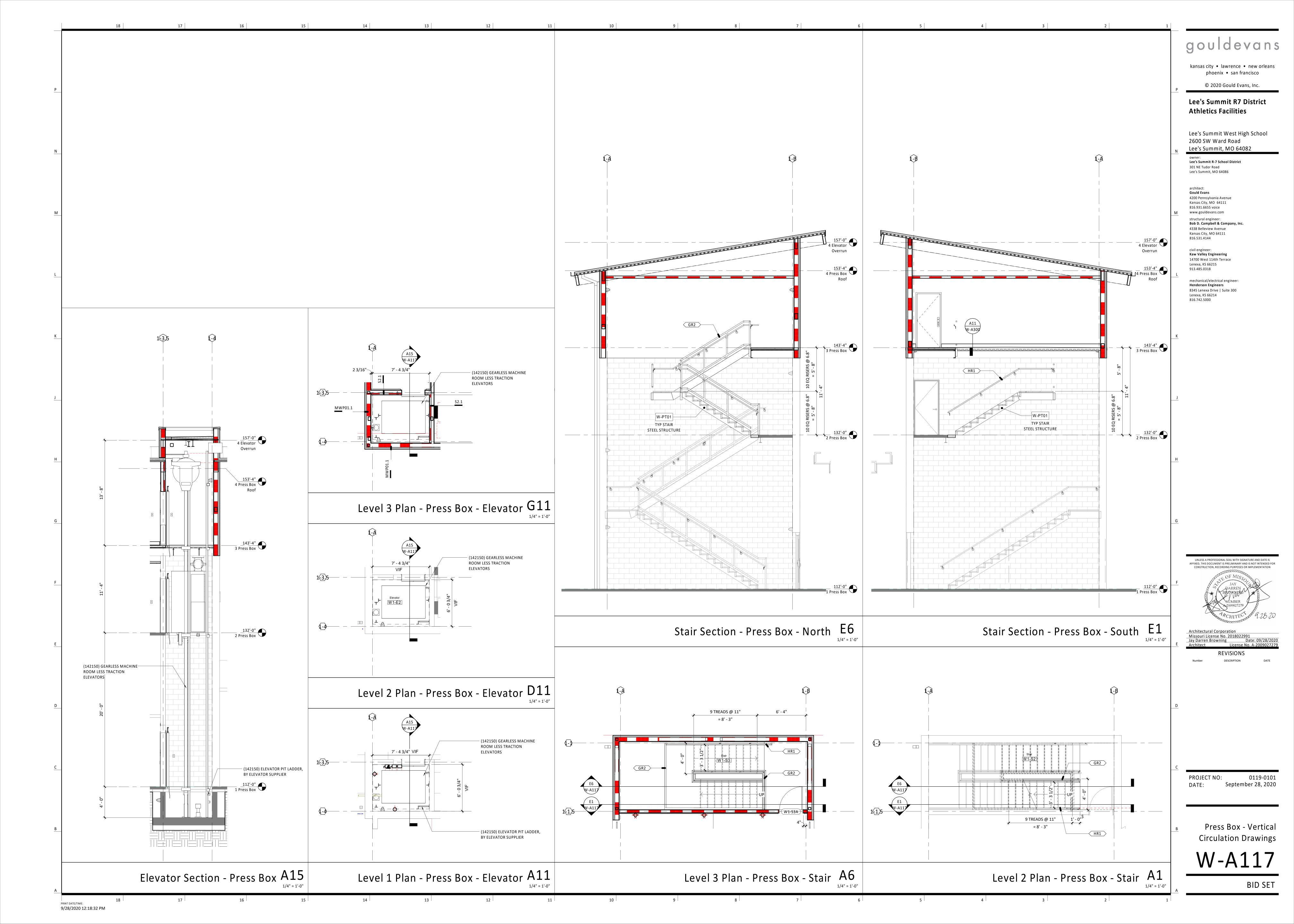




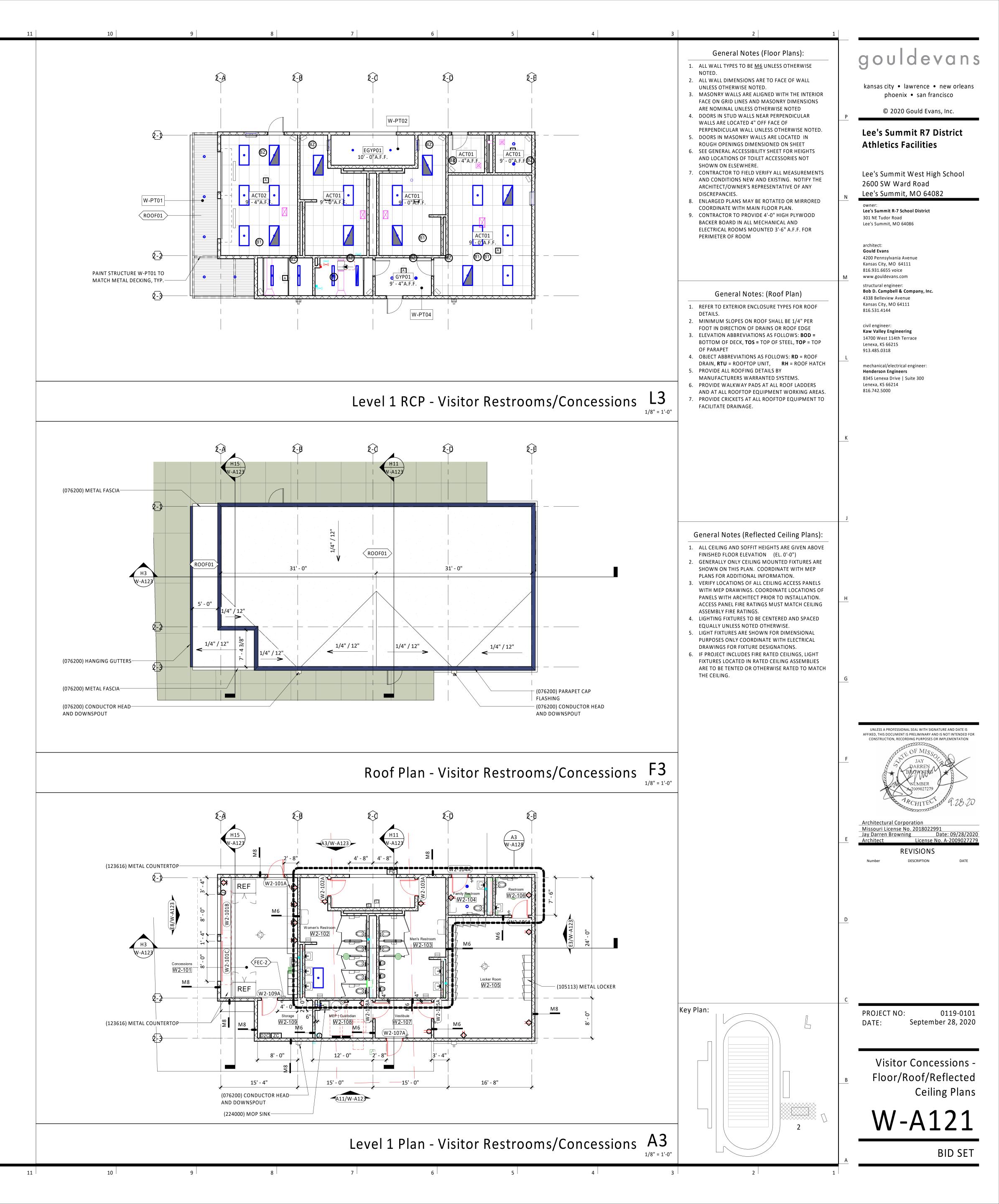


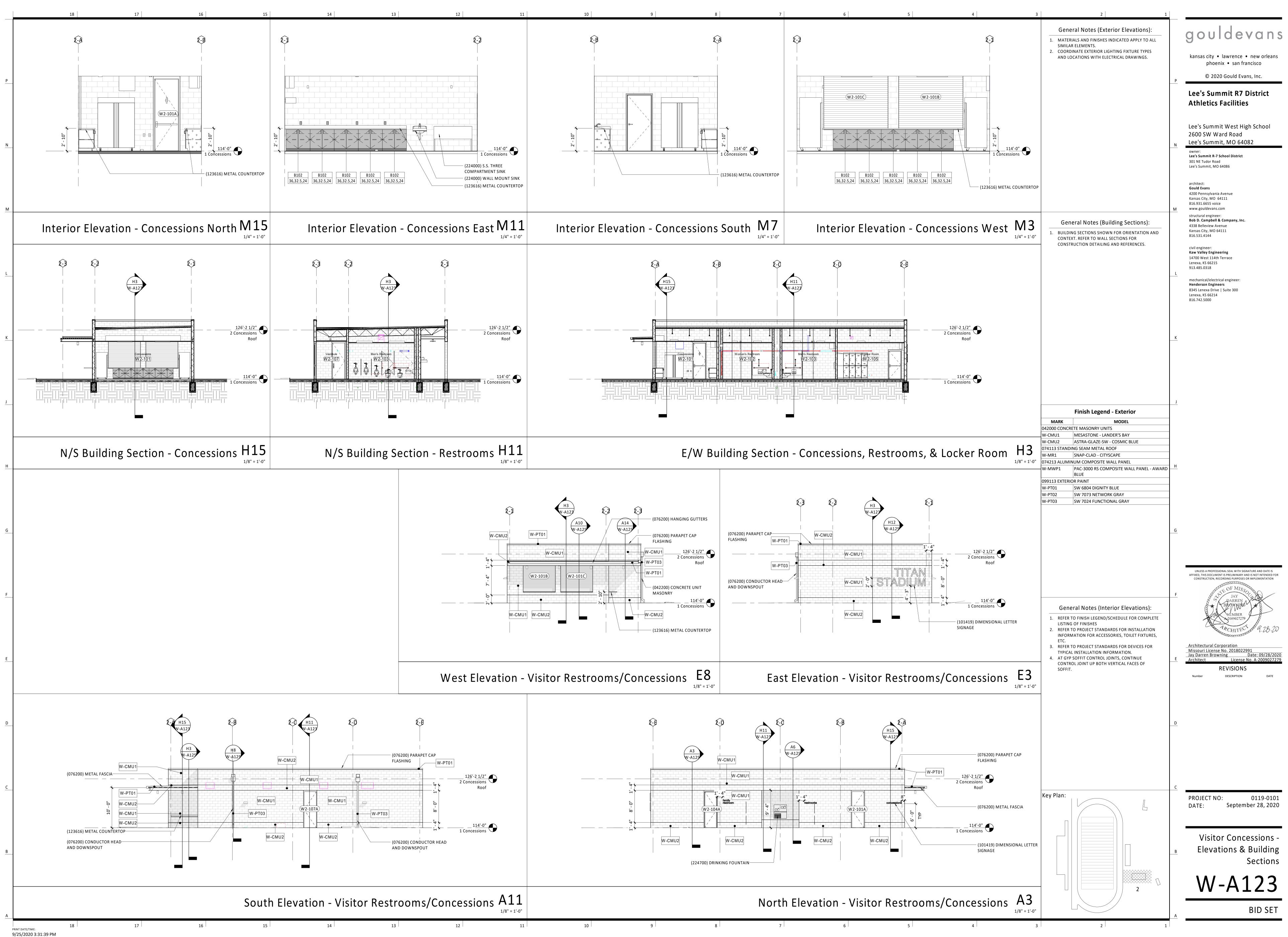


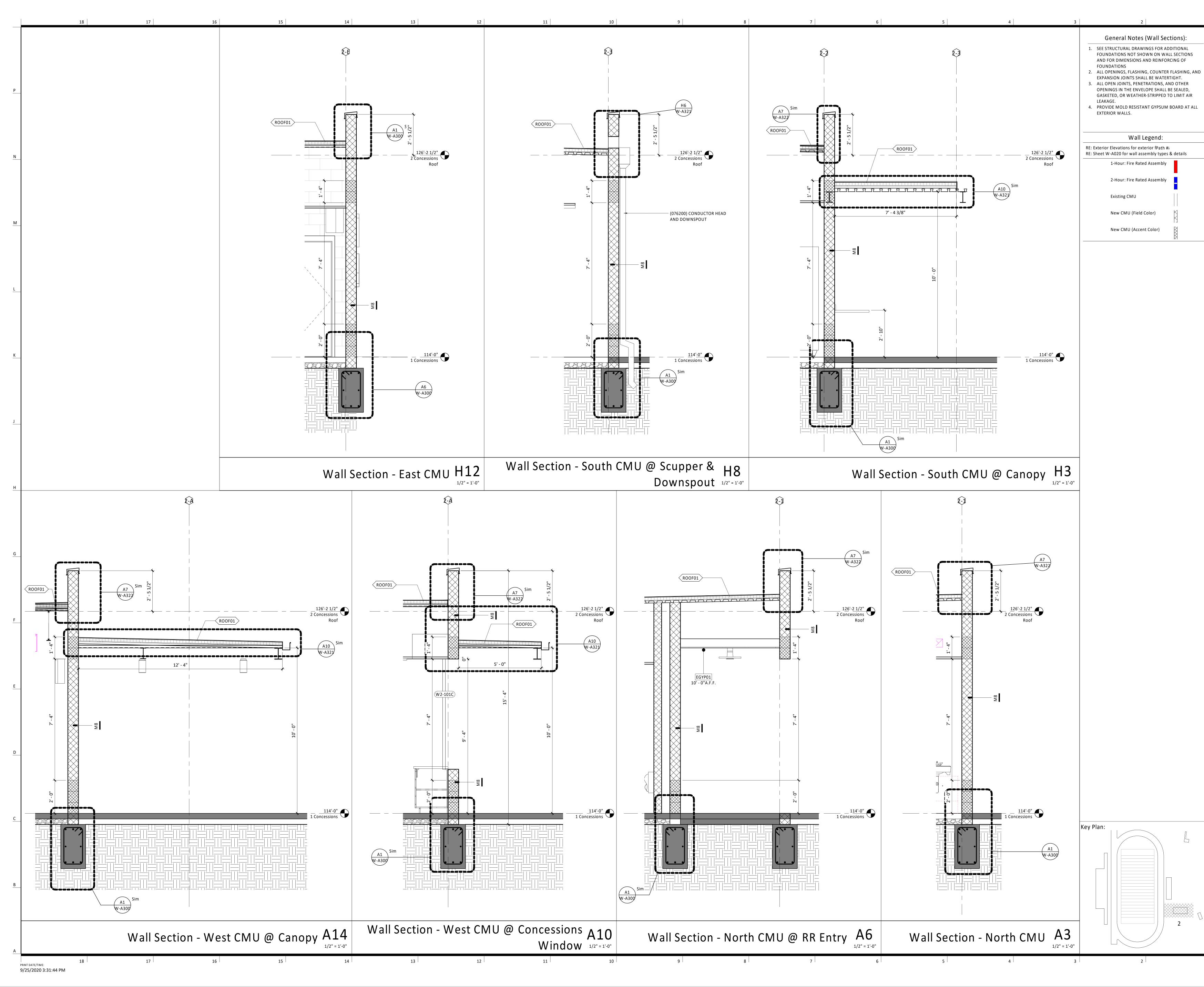


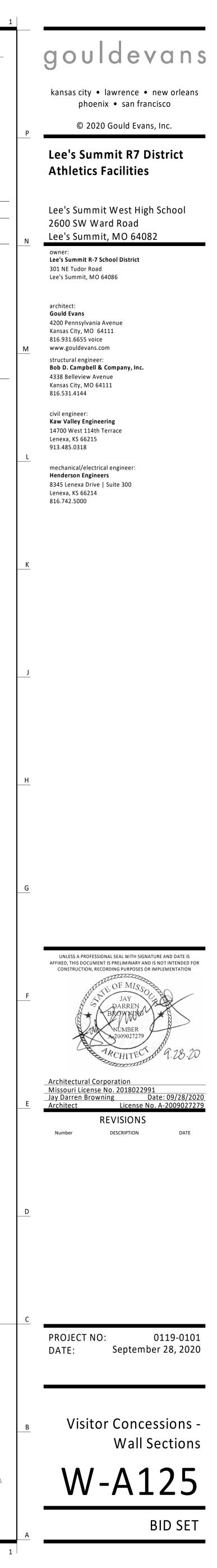


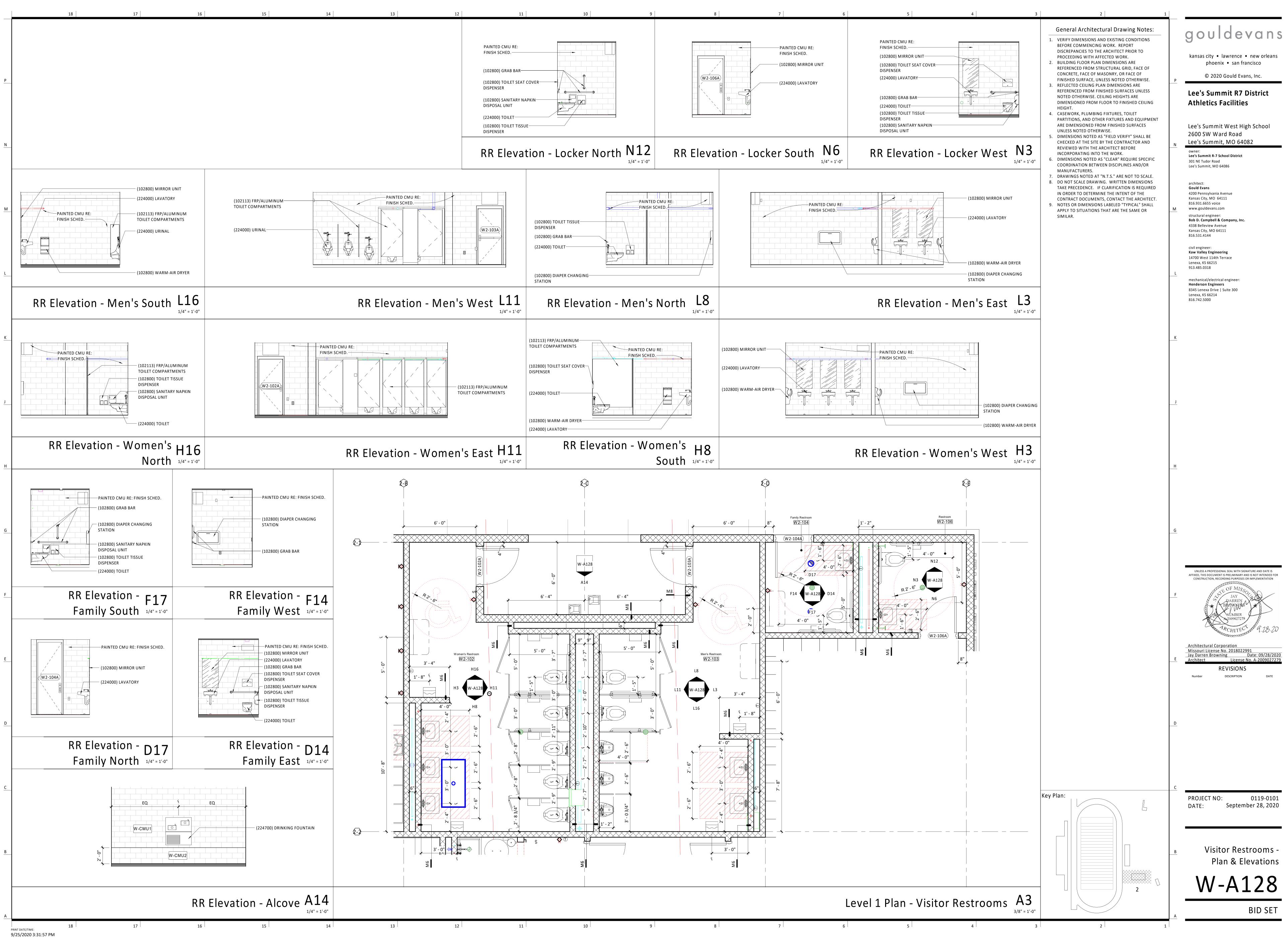
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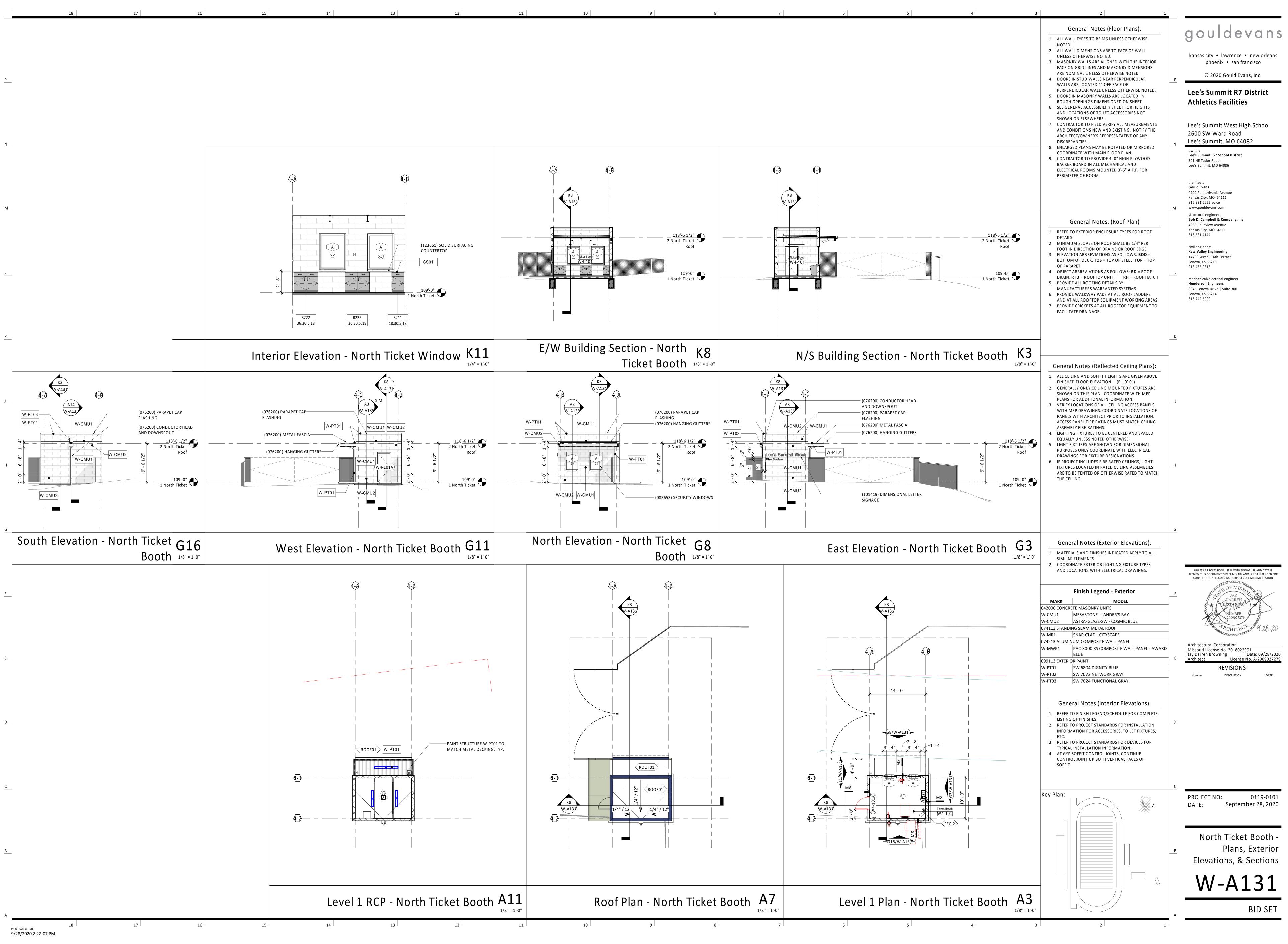


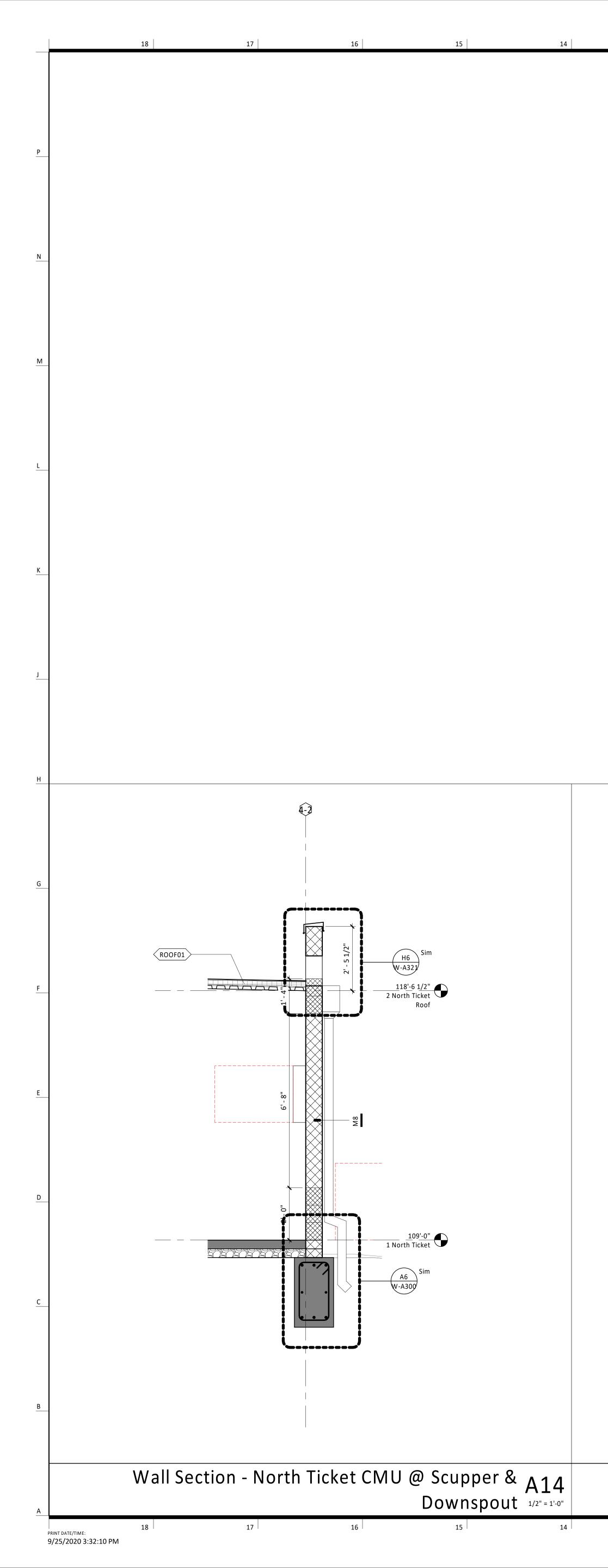


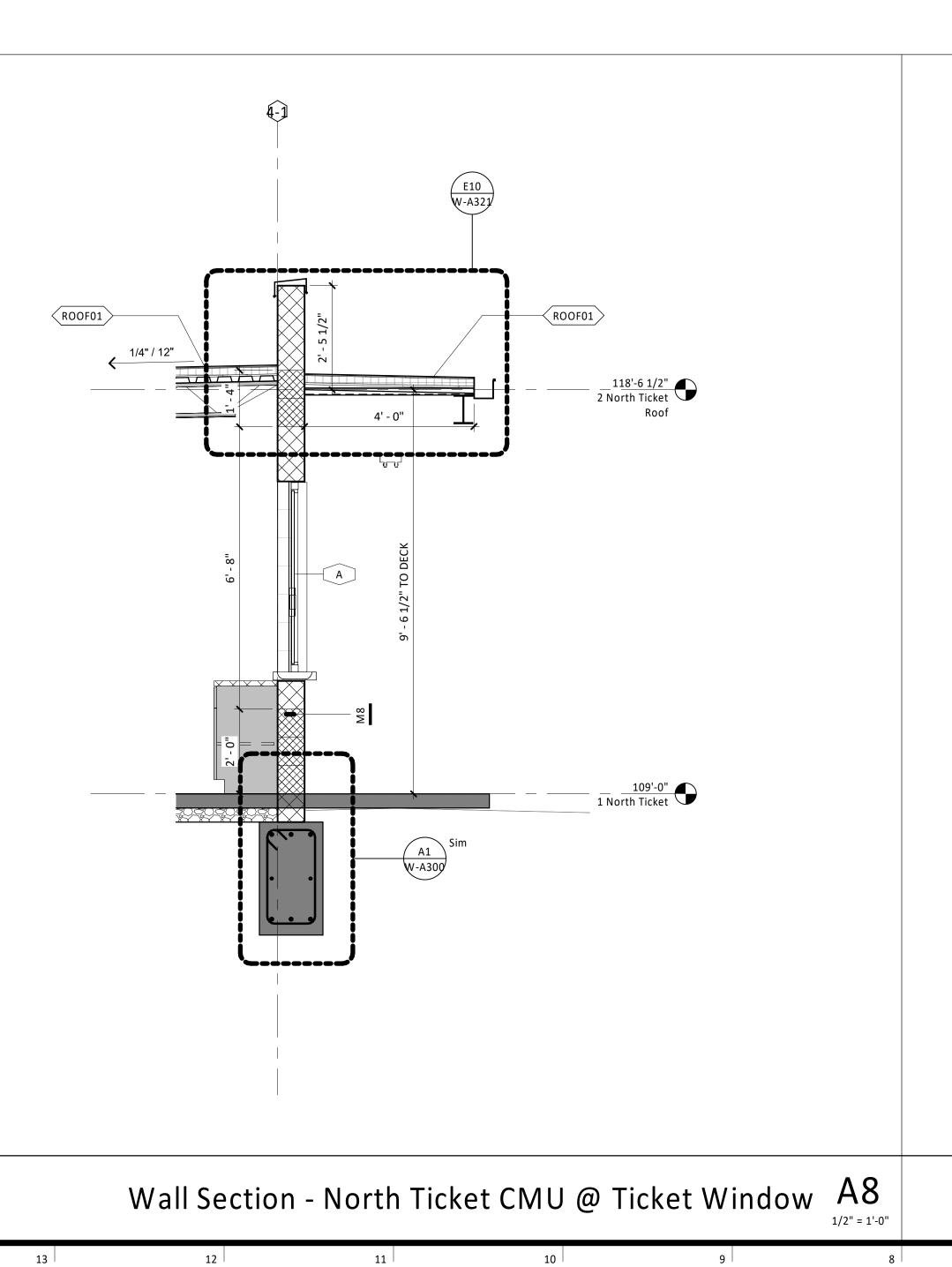


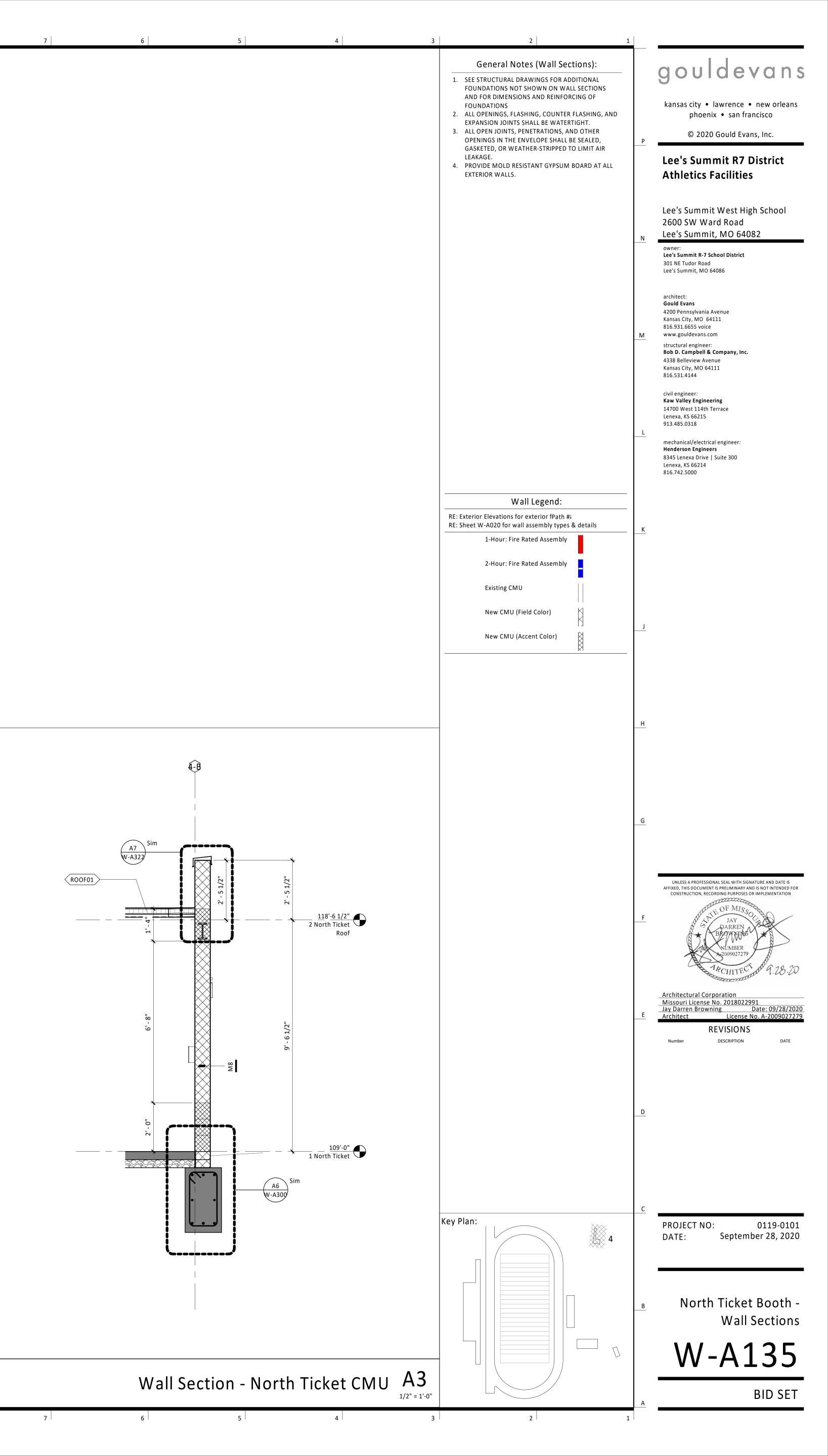


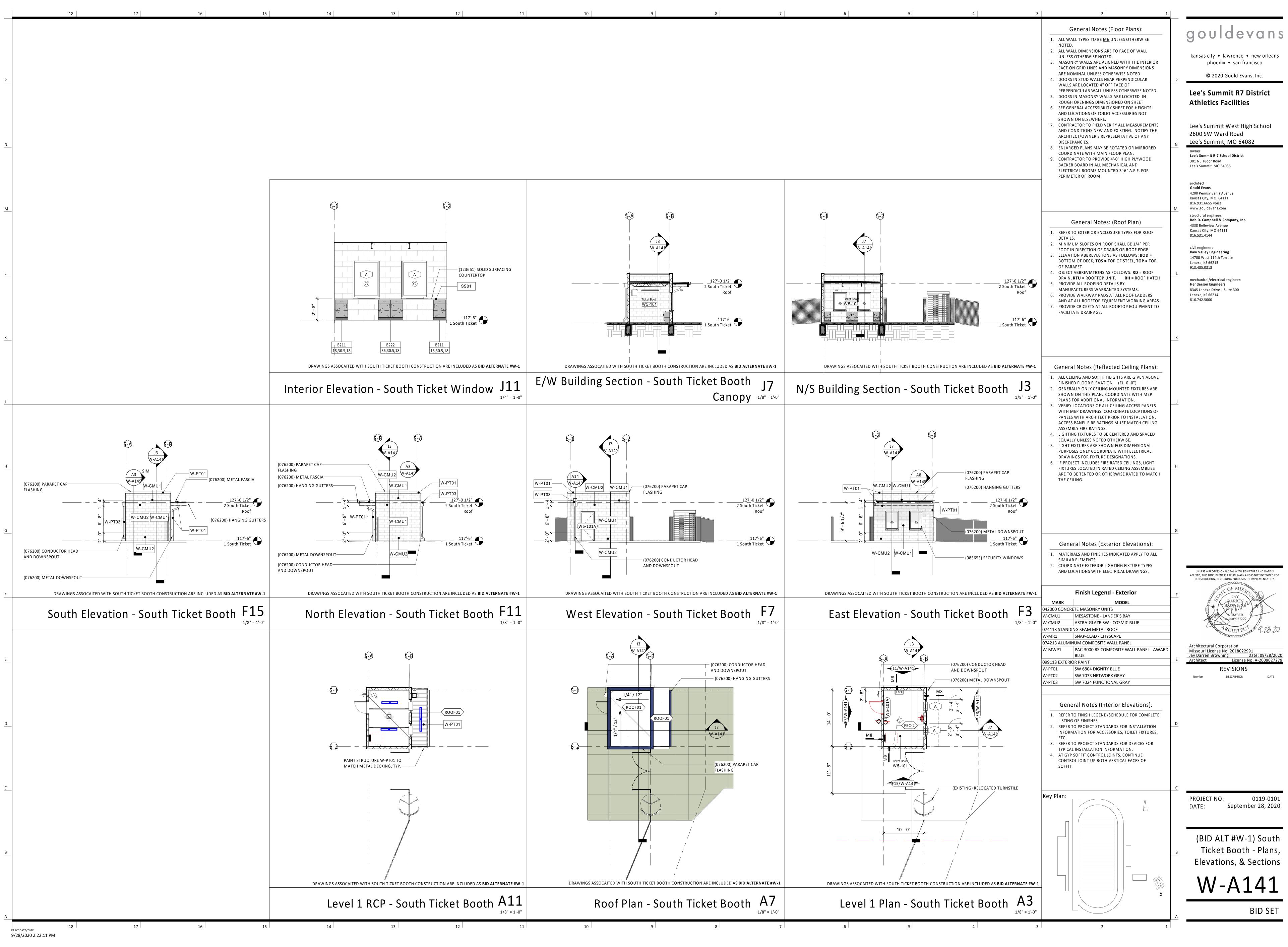


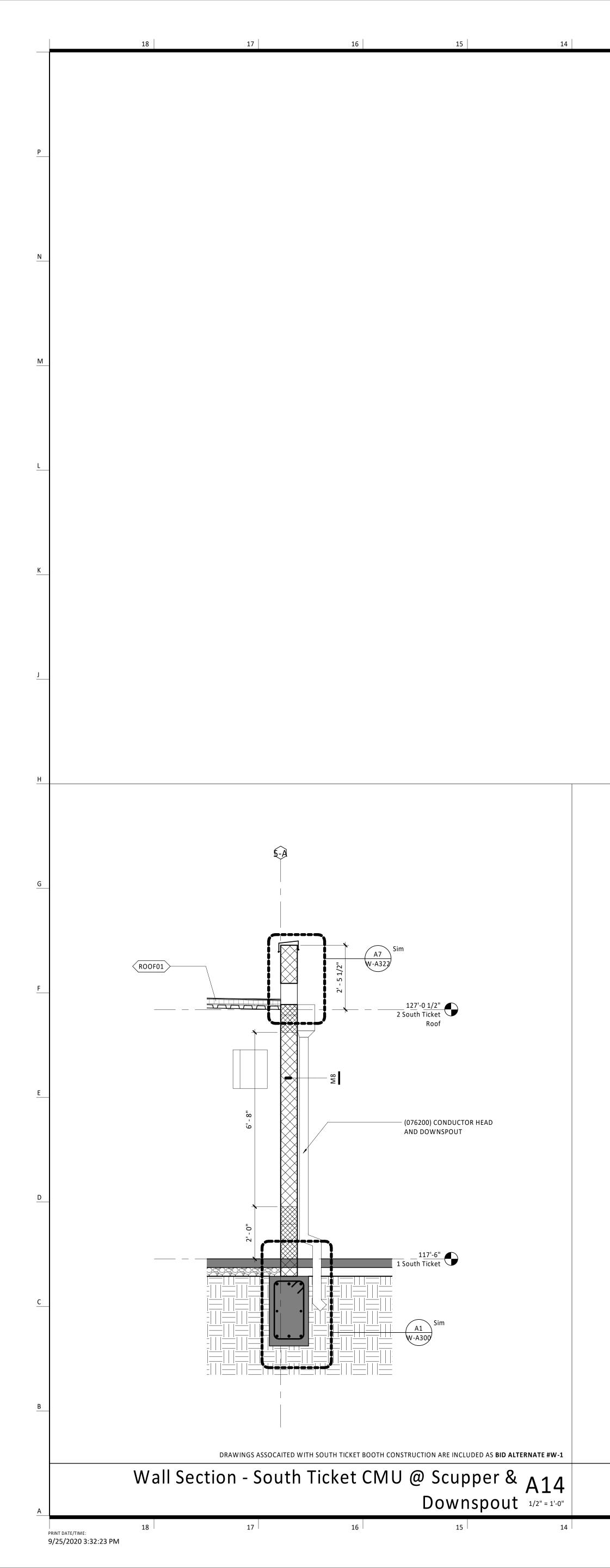


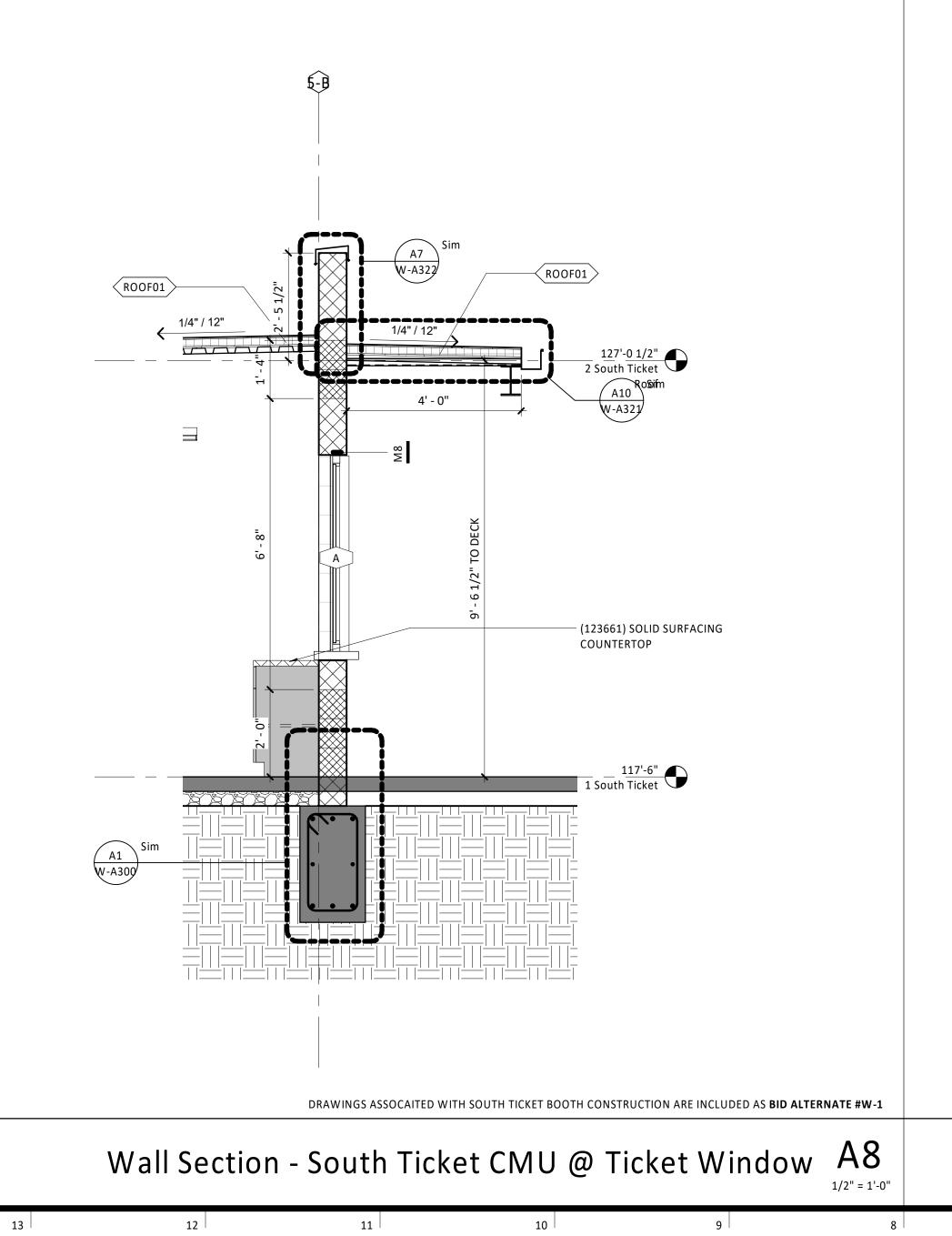


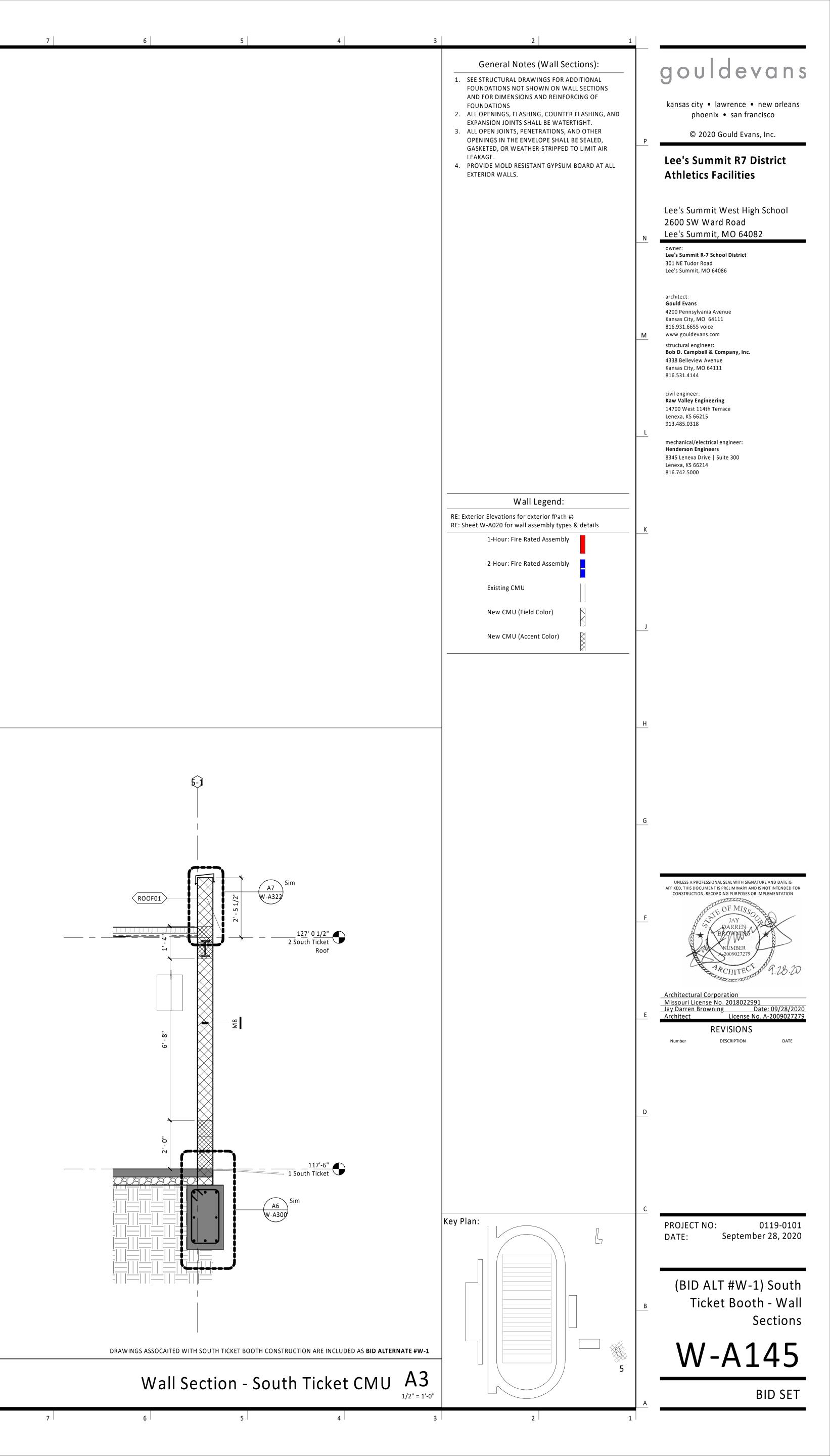


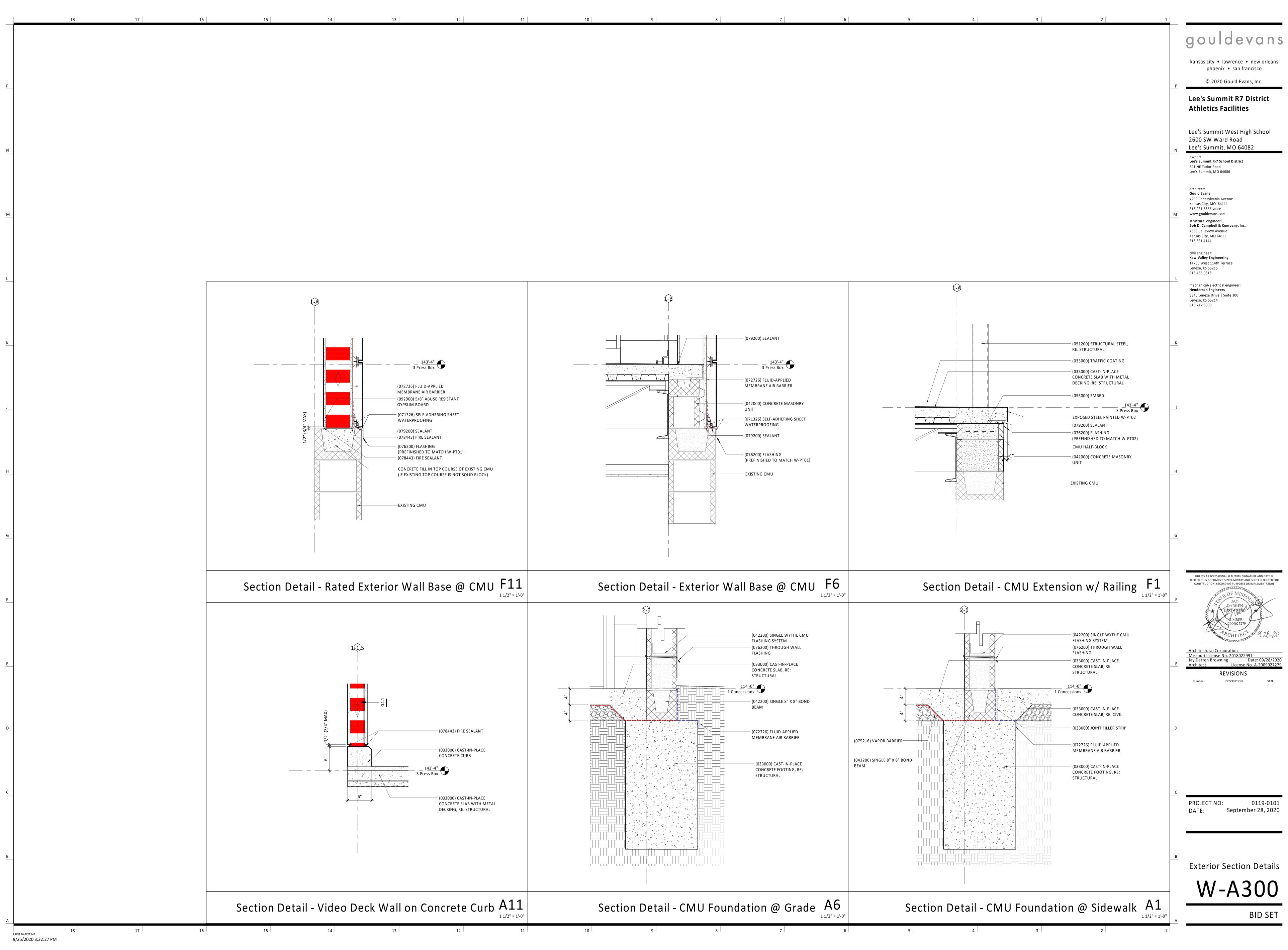


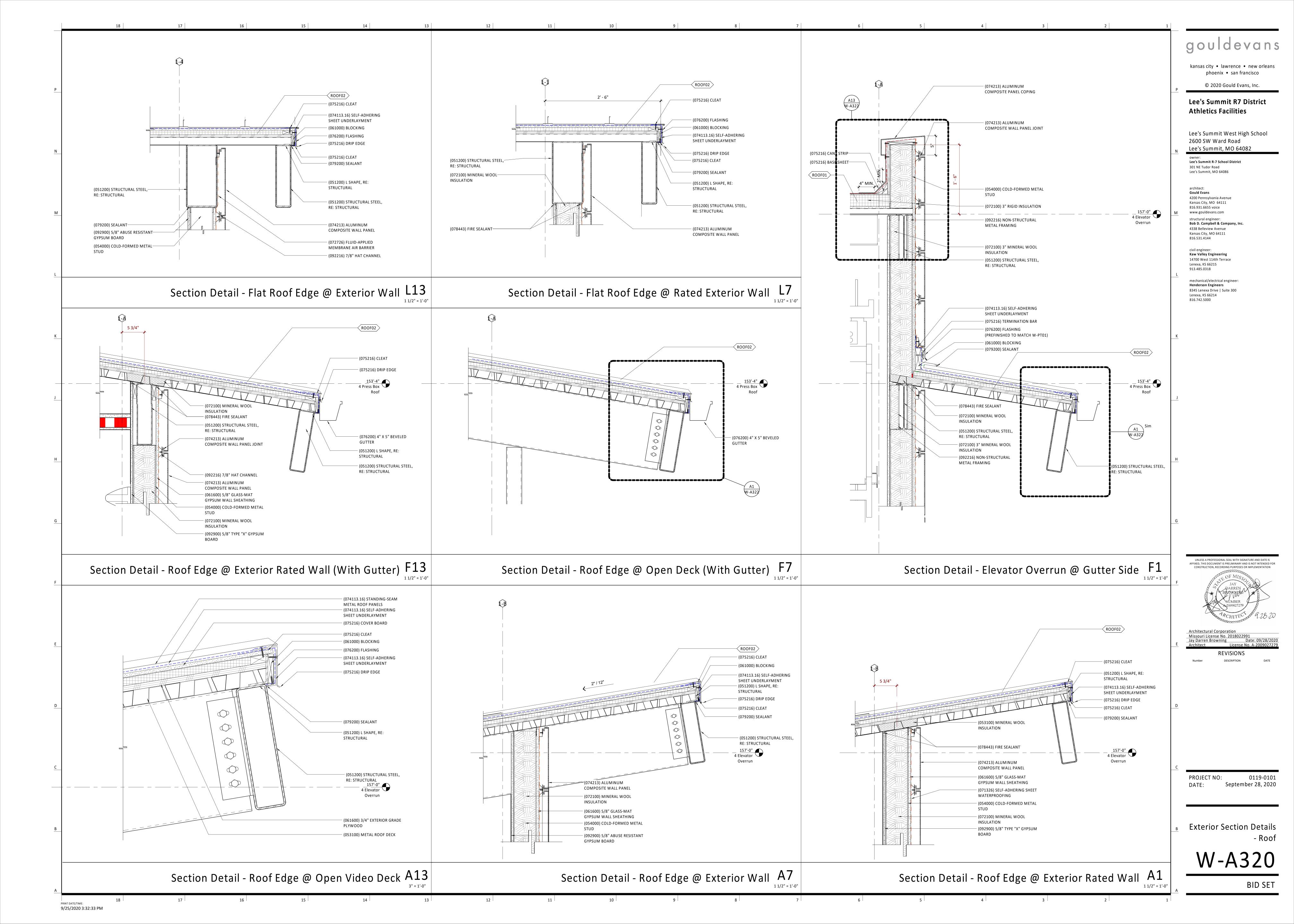


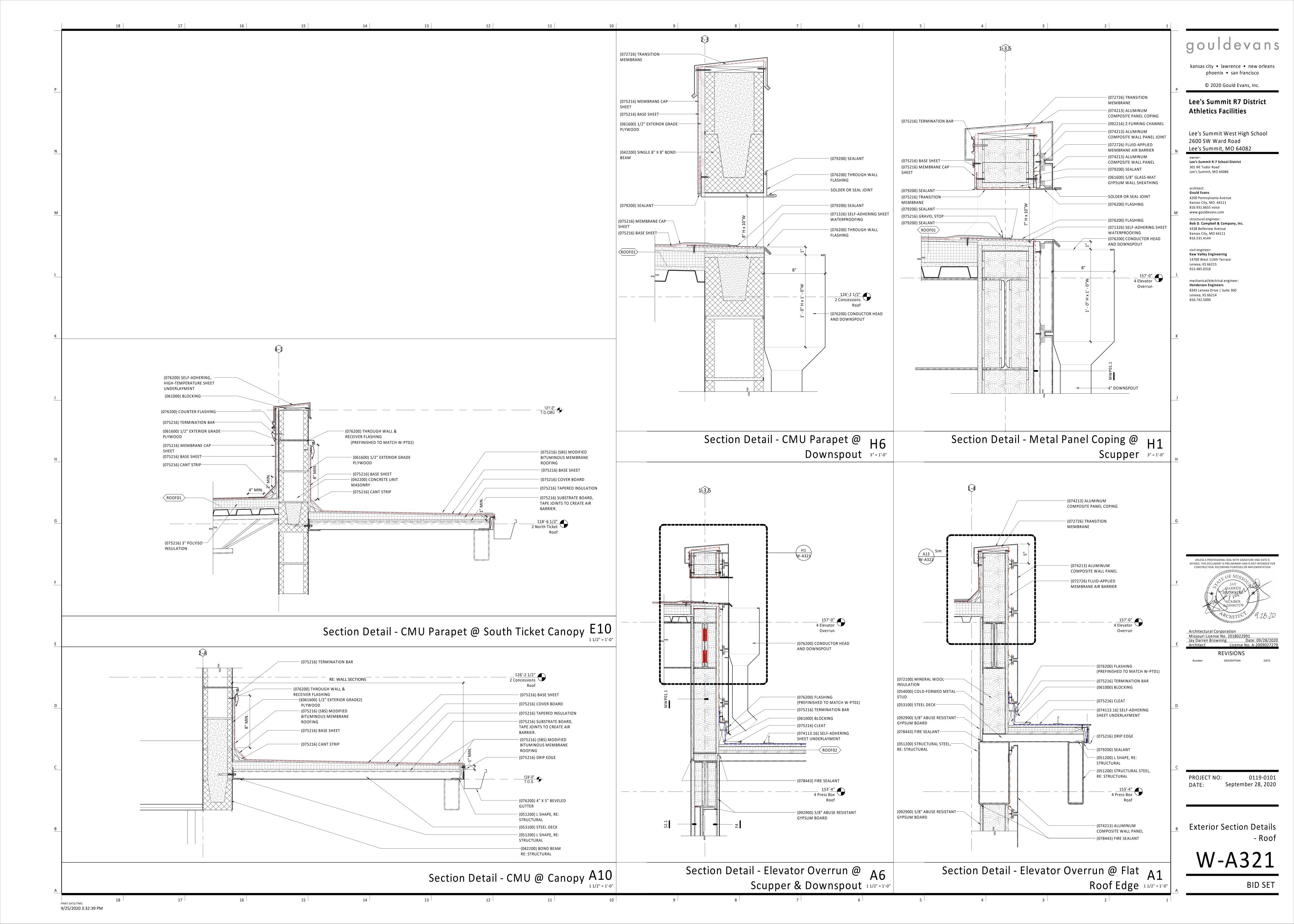


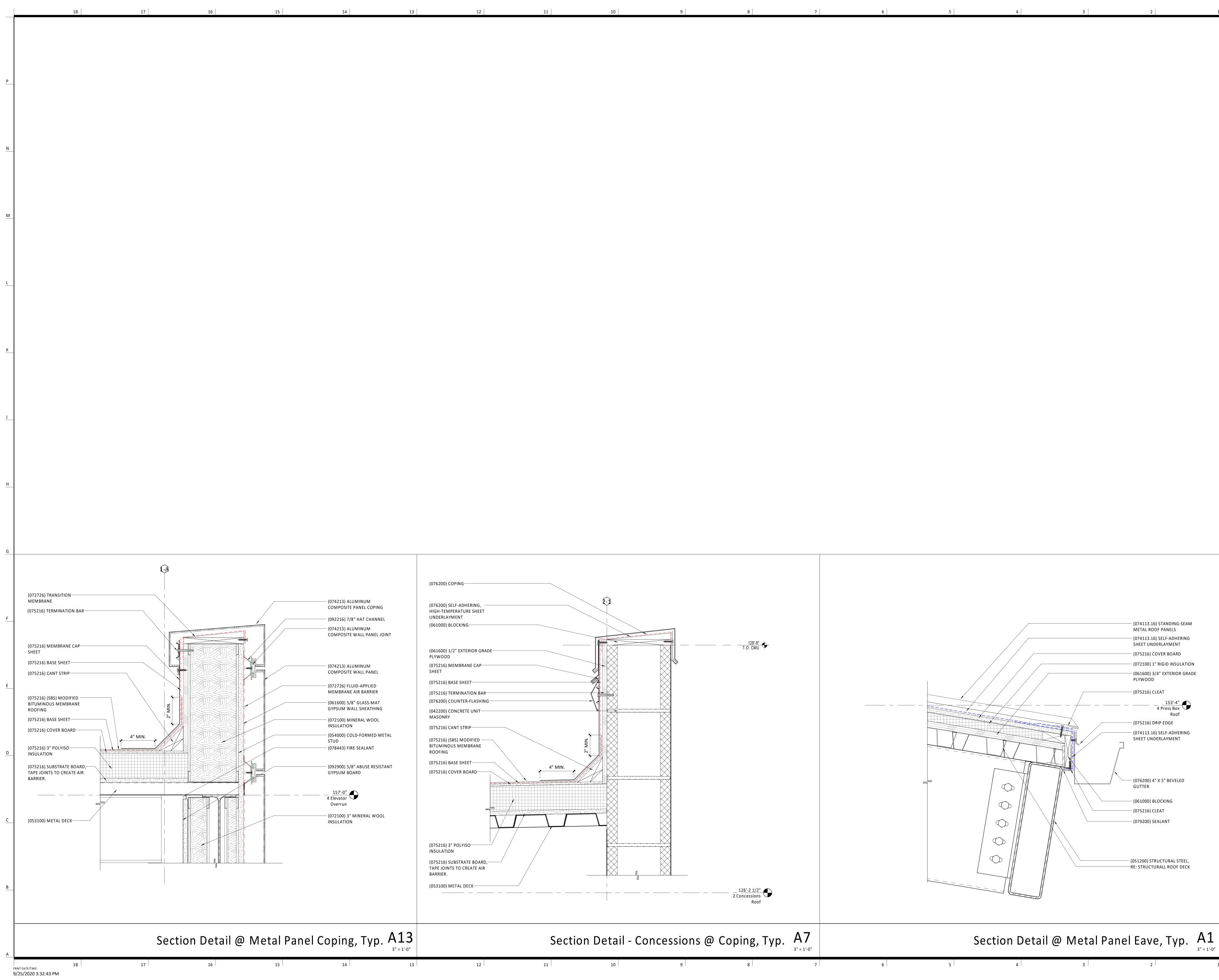


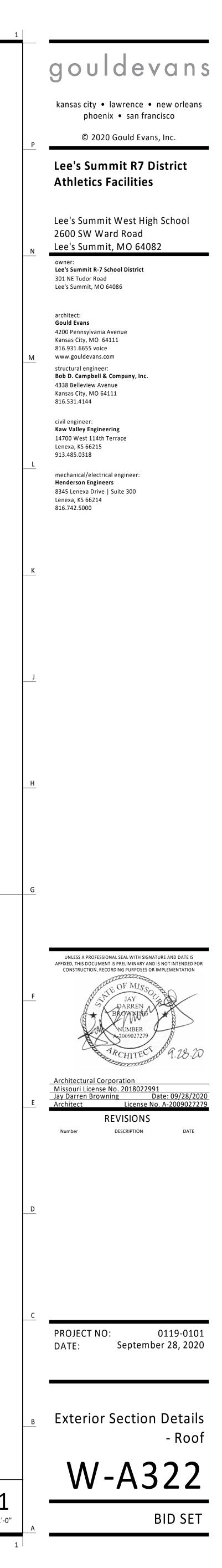




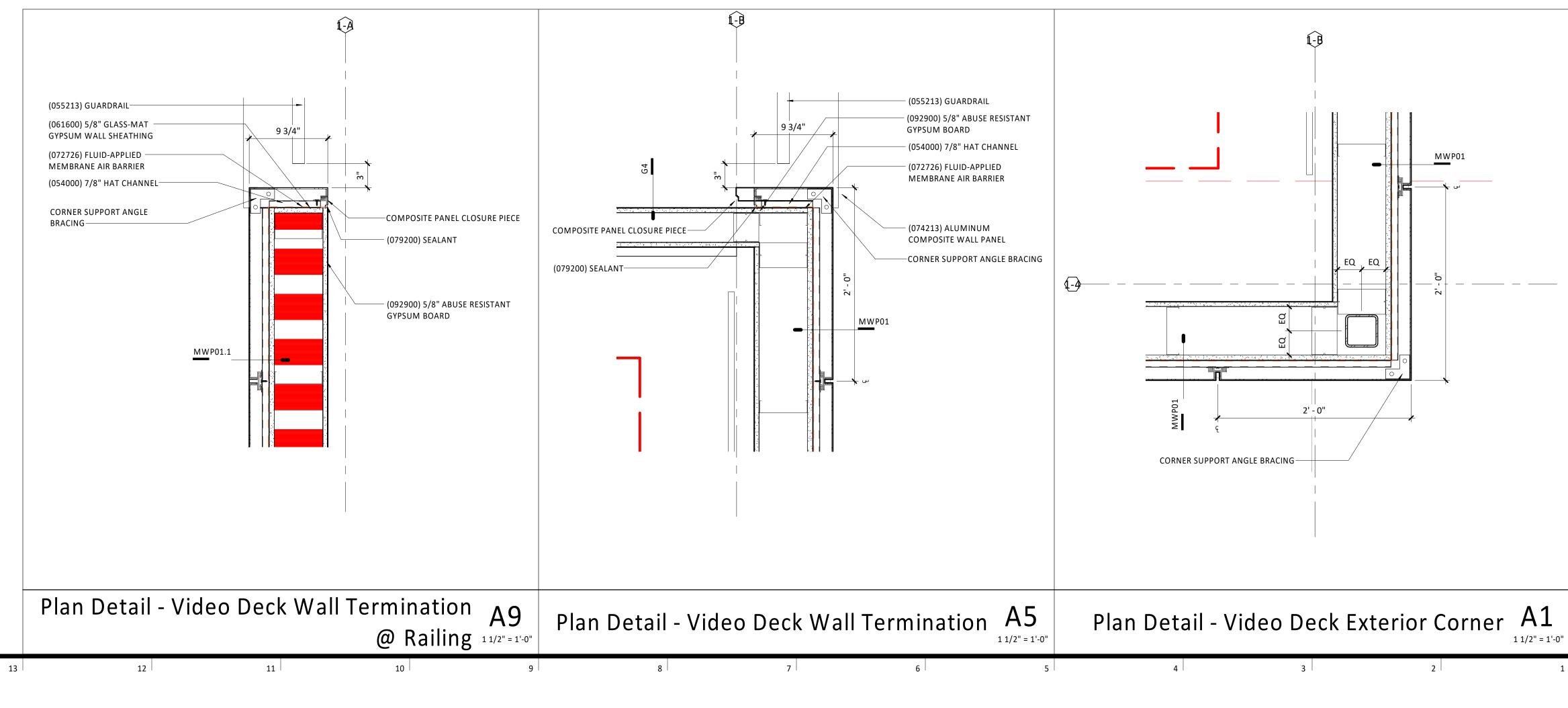


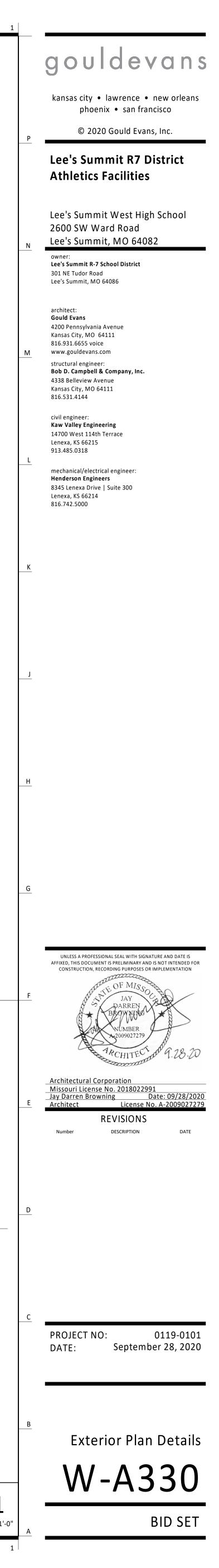


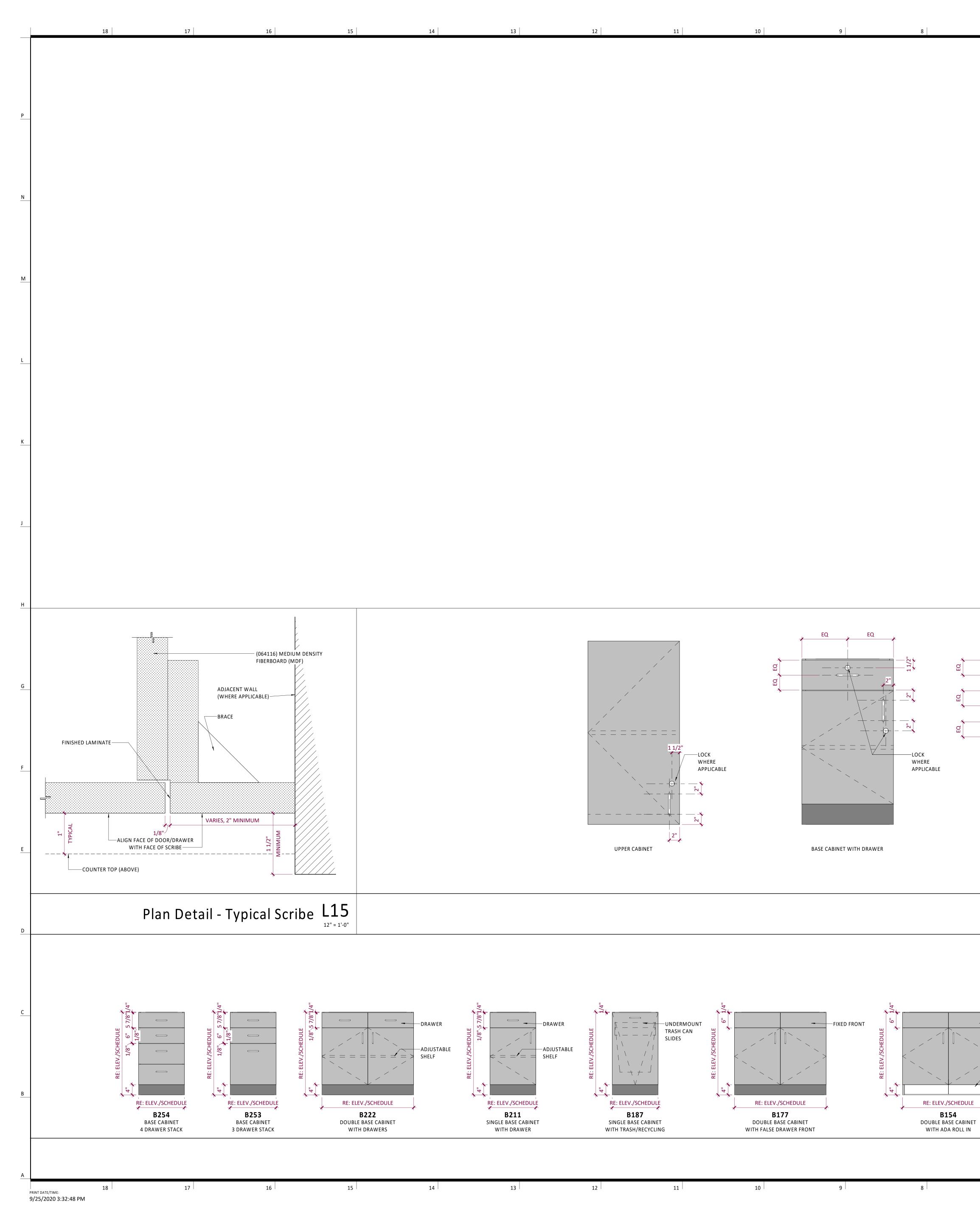




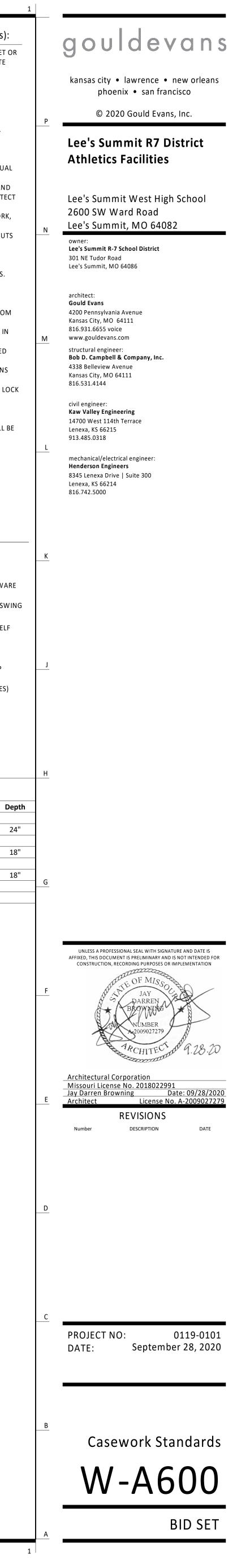
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	 General Notes (Casework Standards): ALL CASEWORK IS TO BE CONSTRUCTED TO MEET OF EXCEED ARCHITECTURAL WOODWORK INSTITUTE (AWI) STANDARDS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION. PROVIDE RUBBER BASE AT ALL CABINET BASES, UNLESS NOTED OTHERWISE. REFER TO INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR SPECIFIC MATERIAL LOCATIONS. PROVIDE MOISTURE RESISTANT PLYWOOD AT COUNTERTOPS WITH SINKS. SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND MAY NOTE REFLECT ACTUAL SIZES OR TYPES. COORDINATE LOCATIONS OF ALL EQUIPMENT AND CONFIRM PROPER CLEARANCES. NOTIFY ARCHITECT OF ANY DISCREPANCIES. CENTER ALL SINKS IN THE ASSOCIATED CASEWORK, UNLESS NOTED OTHERWISE. PROVIDE SIDE SPLASH WHERE COUNTERTOP ABUTS WALL, OR AT COUNTERTOPS WITH DIFFERENT HEIGHTS ABUT. SEAL ALL JOINTS BETWEEN WORK SURFACES/CABINETS AND ADJOINING SURFACES. PROVIDE IN WALL BLOCKING AS REQUIRED FOR UPPER CABINETS. CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES. FIELD COORDINATE LOCATIONS OF GROMMETS IN COUNTERTOPS WITH OWNER/ARCHITECT. PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS. PROVIDE FINISHED CLOSURE PANELS AT EXPOSED END CONDITIONS. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE FILLER PANEL/SCRIBE AT ALL LOCATIONS WHERE CASEWORK MEETS A WALL. PROVIDE
	B BASE CABINET BS BASE SCRIBE T TALL CABINET US UPPER SCRIBE T TALL CABINET Casework Legend SIDESPLASH BACKSPLASH COUNTERTOP CABINET HARDWARE AS SCHEDULED CABINET DOOR SWIN ADJUSTABLE SHELF TOE-KICK B222 CABINET SIZE W,H,D (IN INCHES)
	Casework ScheduleMarkWidthHeightDegBase-102-Double36"32 1/2"24Base-211-Single with Drawer30 1/2"18Base-222-Double with Drawer36"30 1/2"18B22236"30 1/2"18Counter TopIII
$\begin{array}{c} \medskip Display \medskip Display$	
Cabinet Types - Base A3 7 6 5 4 3	2



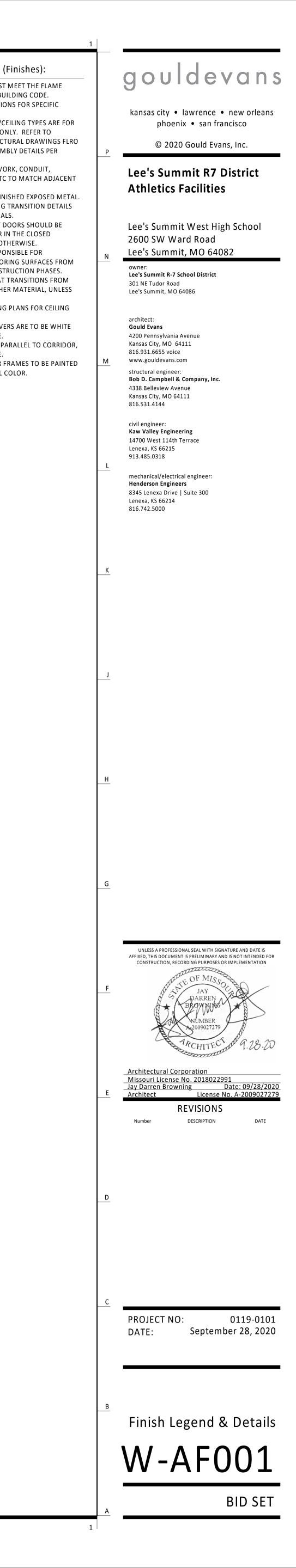
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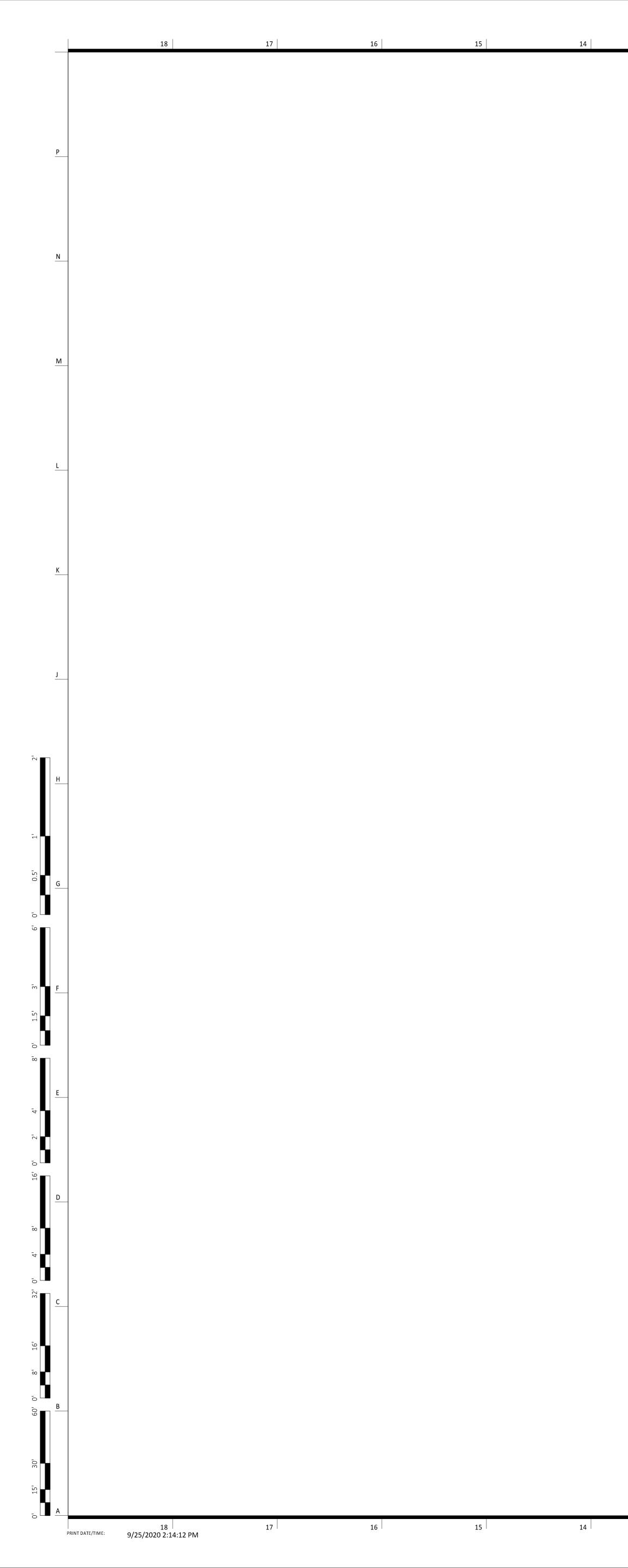
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				Finish Lege	nd - Interiors			
Mark	Manufacturer			M	odel	Comments	Latest Revision	General Notes (Finishes):
	-IN-PLACE CONCRETE							1. ALL FINISH MATERIALS MUST MEET THE FLAME
CC01	EXPOSED CAST IN PLACE CONCRETE					CONCRETE WITH CURE AND SEALING CO	OMPOUND	SPREAD RATINGS PER THE BUILDING CODE.
CC02	EXPOSED CAST IN PLACE CONCRETE					CONCRETE WITH (071800) TRAFFIC COA	ATING	2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
042000 CONC	CRETE MASONRY UNITS						I	3. REFERENCED FLOOR/WALL/CEILING TYPES ARE FO
W-CMU1	TRENWYTH		MESASTONE - L	ANDER'S BAY		MORTAR TO MATCH EXISTING COLOR	@ PRESS BOX	TOP FINISH LAYER DETAILS ONLY. REFER TO
W-CMU2	TRENWYTH		ASTRA-GLAZE-S	W - COSMIC BLU	JE			ARCHITECTURAL AND STRUCTURAL DRAWINGS FL
064023 INTER	RIOR ARCHITECTURAL WOODWORK							FLOOR/WALL CEILING ASSEMBLY DETAILS PER
MEL01	TBD		WHITE MELAMI	NE				LOCATION. 4. PAINT ALL EXPOSED DUCTWORK, CONDUIT,
PL01	TBD		COLOR TO MAT	СН РТО1				ELECTRICAL EQUIPMENT, ETC TO MATCH ADJACEN
074113 STAN	DING SEAM METAL ROOF							SURFACES.
W-MR1	PAC-CLAD		SNAP-CLAD - CI	TYSCAPE				5. PAINT ALL NON-FACTORY FINISHED EXPOSED MET
074213 ALUM	INUM COMPOSITE WALL PANEL							6. REFER TO TYPICAL FLOORING TRANSITION DETAILS
W-MWP1	PAC-CLAD		PAC-3000 RS CC	MPOSITE WALL	PANEL - AWARD BLUE			FOR ALL FLOORING MATERIALS. 7. FLOORING TRANSITIONS AT DOORS SHOULD BE
085653								LOCATED UNDER THE DOOR IN THE CLOSED
IGU-02	TBD		BULLET-RESISTA	NT GLAZING		BULLET-RESISTANT GLASS		POSITION, UNLESS NOTED OTHERWISE.
095113 ACOU	JSTICAL PANEL CEILINGS							8. CONTRACTOR WILL BE RESPONSIBLE FOR
ACT01	USG		ASTRO CLIMAPL	US TREATED WI	TH AEGIS MICROBE SHIELD	COLOR: WHITE, SIZE: 24" X 48" x 1", ED0	GE: SQ	PROTECTING FINISHED FLOORING SURFACES FROM
ACT02	USG		KITCHEN LAY-IN	PANEL CLIMAP	LUS PERFORMANCE	COLOR: WHITE, SIZE: 24" X 48" x 1", ED0	GE: SQ	DAMAGE DURING ALL CONSTRUCTION PHASES.9. PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM
096513 RESILI	IENT BASE	1						CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS
RB-01	ROPPE		123 CHARCOAL			4" COVE BASE		NOTED OTHERWISE.
099113 EXTER	RIOR PAINT						T	10. REFER TO REFLECTED CEILING PLANS FOR CEILING
W-PT01	SHERWIN WILLIAMS		SW 6804 DIGNI	TY BLUE		COLOR MATCH FOR PRE-FINISHED SHEE	T METAL	HEIGHTS.
W-PT02	SHERWIN WILLIAMS		SW 7073 NETW	ORK GRAY		COLOR MATCH FOR PRE-FINISHED SHEE	T METAL	11. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE
W-PT03	SHERWIN WILLIAMS		SW 7024 FUNCT	IONAL GRAY		COLOR MATCH FOR PRE-FINISHED SHEE	T METAL	UNLESS NOTED OTHERWISE. 12. CARPET PATTERNS TO RUN PARALLEL TO CORRIDO
099123 INTER	RIOR PAINTING	1						UNLESS NOTED OTHERWISE.
W-PT04	SHERWIN WILLIAMS		SW 7007 BRIGH	T WHITE				13. ALL HOLLOW METAL DOOR FRAMES TO BE PAINT
123661 SOLID	SURFACE COUNTERTOPS							TO MATCH ADJACENT WALL COLOR.
SS01	CORIAN		MODERN WHIT	Ξ		GENERAL COUNTERTOPS		-
				Finish 9	Schedule			
			Fin	ish				-
Level	Room Number Room Name	Floor	Base	Wall	Ceiling	Comments		
1 Press Box	W1-S1 Stair	ETR		ETR				4

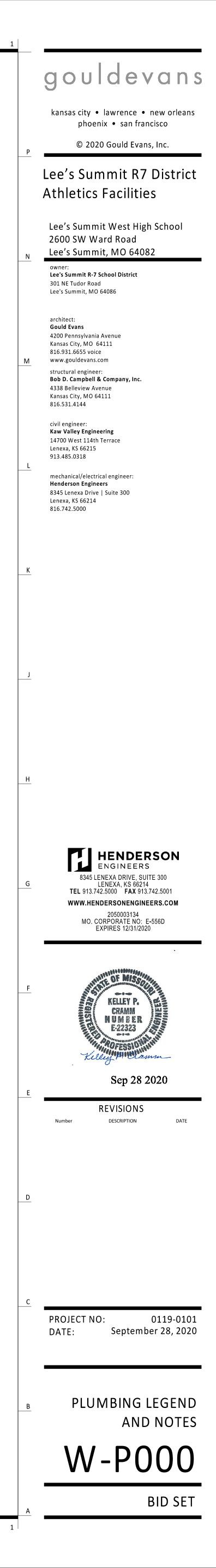
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				Fi	nish	1	
Level	Room Number	Room Name	Floor	Base	Wall	Ceiling	Comments
1 Press Box	W1-S1	Stair	ETR		ETR		
					-	-	
2 Press Box	W1-202	Command Center	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-201	Visitor Coach	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-203	Home Coach	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-204	Electrical	ETR	ETR	ETR	OTS	
2 Press Box	W1-205	Vestibule	ETR	ETR	ETR	W-PT04	
2 Press Box	W1-S2	Stair	ETR		ETR		
3 Press Box	W1-301	Video Deck	CC02	CC02	W-PT01	OTS	STEEL DECK AND STRUCTURE TO BE PAINTED W-PT02
3 Press Box	W1-S3	Stair	CC01		W-PT04	OTS	
3 Press Box	W1-302	Storage/Data	CC01	RB01	W-PT04	OTS	
1 Concessions	W2-109	Storage	CC01		W-PT04	OTS	
1 Concessions	W2-101	Concessions	CC01	RB01	W-PT04	ACT02	
1 Concessions	W2-105	Locker Room	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-102	Women's Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-103	Men's Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-104	Family Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-106	Restroom	CC01	RB01	W-PT04	ACT01	
1 Concessions	W2-108	MEP Custodian	CC01		W-PT04	OTS	
1 Concessions	W2-107	Vestibule	CC01	RB01	W-PT04	ACT01	
1 North Ticket	W4-101	Ticket Booth	CC01	RB01	W-PT04	OTS	
L							
1 South Ticket	W5-101	Ticket Booth	CC01	RB01	W-PT04	OTS	

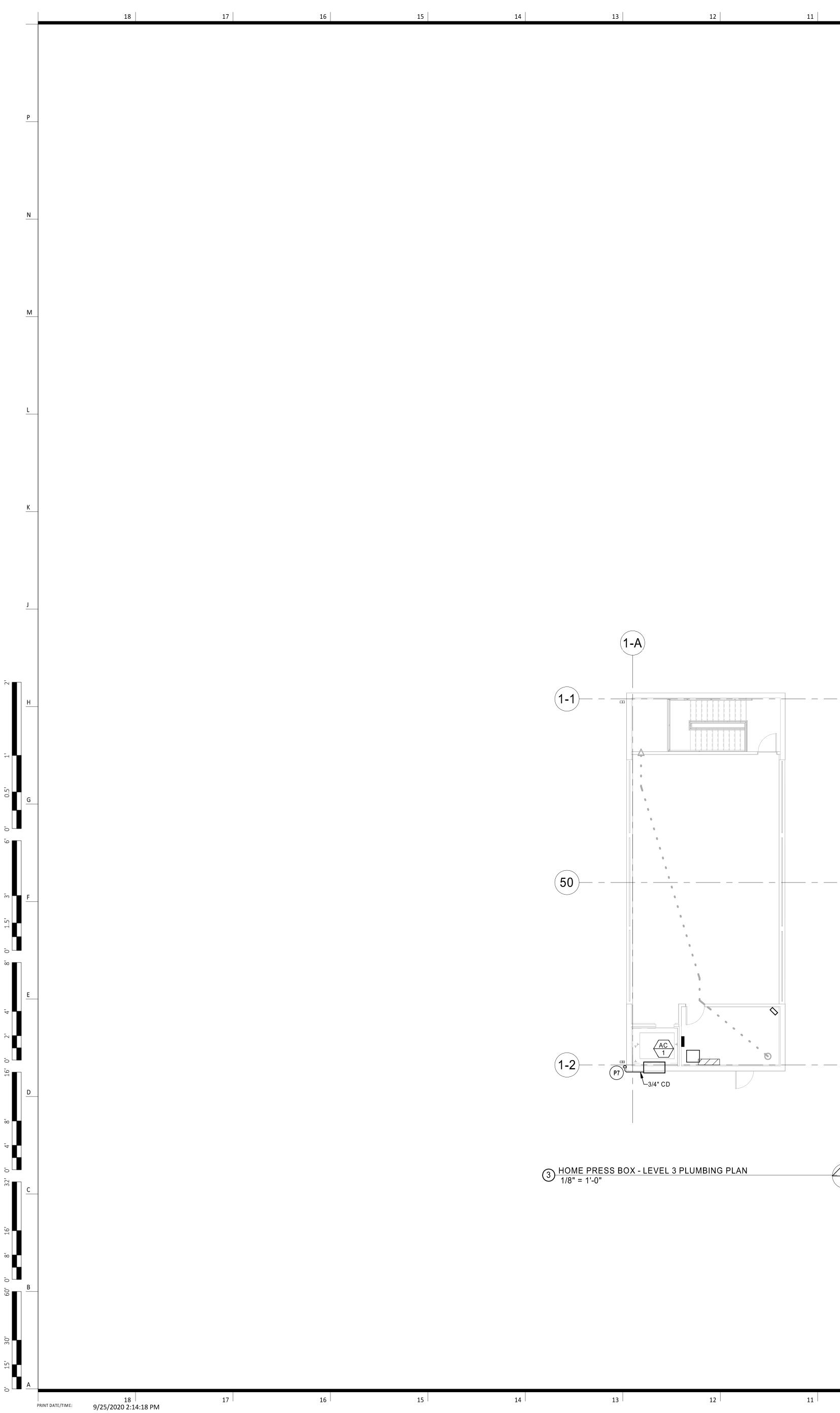




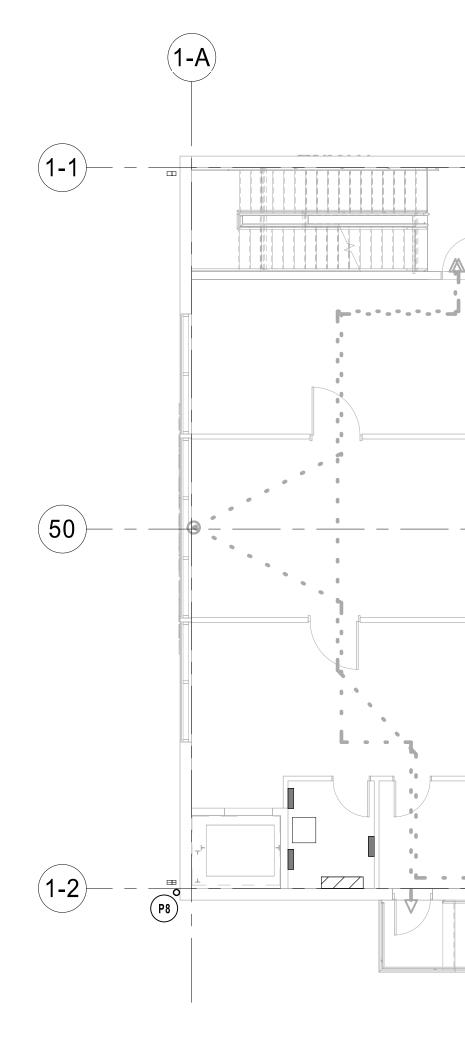
			1. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT"
HIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBR	EVIATIONS ARE USED. PIPING SYMBOLS	V2.02 PIPING LINETYPES	DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCE OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO
LINIC SERVICE SINKS (RIM) 30"	OXYGEN OUTLET		SPECIFICATIONS. 2. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE
OSE BIBB (CENTERLINE) 36"	NITROUS OXIDE OUTLET		GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL
CE MAKER OUTLET BOX (CENTER OF BOX) 24"	MEDICAL AIR OUTLET		REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OU IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS.
ANITOR'S SINK FAUCET FITTINGS (CENTERLINE) 42"	→ NITROGEN OUTLET		NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
AVATORY OR SINK STANDARD HEIGHT (RIM) 31"			3. PROVIDE TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND
ADA ACCESSIBLE (RIM) 34" CHILD HEIGHT (RIM) 24"	 FLOOR SINK (FS), SIZE & TYPE FLOOR DRAIN (FD), SIZE & TYPE 		STATE INSPECTIONS, REFER TO SPECIFICATIONS.
ON FREEZE WALL HYDRANT (AFG TO CENTERLINE) 18"	 FLOOR DRAIN (FD), SIZE & TYPE ROOF DRAIN (RD), SIZE & TYPE 	SOIL PIPING - ABOVE FLOOR (S)	4. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING
HOWER HEAD	BALL VALVE		JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S
MEN (CENTERLINE)78"WOMEN (CENTERLINE)72"			REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.
HOWER VALVE STANDARD HEIGHT - MEN (CENTERLINE) 48"			CODE REQUIREMENTS.
STANDARD HEIGHT - WOMEN (CENTERLINE)40ADA ACCESSIBLE (CENTERLINE)38" TO 48"	CHECK VALVE		 VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.
JRGEON'S SCRUB-UP SINK (FRONT RIM) 35"	BALANCING VALVE WITH PRESSURI	PORTSCGWV COMBINATION GREASE WASTE AND VENT (CGWV)	7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AN
JB VALVE	WATER METER		MOUNTING HEIGHTS OF PLUMBING FIXTURES.
STANDARD HEIGHT (CENTERLINE) 32" ADA ACCESSIBLE CENTER BETWEEN GRAB BAR AND TUB RIM		STSTORM DRAIN - ABOVE FLOOR (ST)	8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
	STRAINER WITH BLOWOFF		9. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND
STANDARD HEIGHT (RIM)24"ADA ACCESSIBLE (RIM)17"CHILD HEICHT (RIM)44"	RELIEF/SAFETY VALVE	OVERFLOW STORM DRAIN - ABOVE FLOOR (OST)	AS HIGH AS POSSIBLE. 10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
CHILD HEIGHT (RIM) 14" ASHING MACHINE OUTLET BOX (RIM) 42"	SOLENOID VALVE		10. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
ASHING MACHINE OUTLET BOX (RIM) 42" ATER CLOSET	PRESSURE REDUCING VALVE		AREAS TIGHT TO THE STRUCTURE, WALL OR CEILING AND A HIGH AS POSSIBLE. INSTALL PIPING PARALLEL AND / OR
ATER CLOSET STANDARD HEIGHT (RIM) 15" ADA ACCESSIBLE (TOP OF SEAT) 17" TO 19"	GAS PRESSURE REGULATOR		PERPENDICULAR TO WALLS.
CHILD HEIGHT (RIM) 10"	PA	CDH CONDENSATE DRAIN - HIGH EFFICIENCY RTU (CDH)	12. INSTALL VALVES AND APPURTENANCES A MAXIMUM OF 24" ABOVE CEILING IN ACCESSIBLE LOCATION WITHIN 24" OF
ATER COOLER OR DRINKING FOUNTAIN STANDARD HEIGHT (SPOUT) 41"			ACCESS DOORS OR ACCESSIBLE CEILING TILES. PROVIDE F AND FITTINGS TO INSTALL VALVES AND APPURTENANCES A
ADA ACCESSIBLE (SPOUT) 36" CHILD HEIGHT (SPOUT) 30"		ACD AUXILIARY CONDENSATE DRAIN (ACD)	REQUIRED HEIGHT AND WITHIN 24" OF ACCESS DOORS OR ACCESSIBLE CEILING TILES.
	BACKFLOW PREVENTER PRESSURE GAUGE	SPD	13. INSTALL NO PLASTIC PIPE OF ANY KIND ABOVE SLAB INSIDE
	PRESSORE GAUGE	G MATURAL GAS (G) G G MATURAL GAS ON ROOF (G)	UNDER THE BUILDING. INSTALL NO PLASTIC PIPE IN THE CEILING RETURN AIR PLENUM.
STALL PLUMBING FIXTURES AT THE MOUNTING HEIGHTS SHOWN ABOVE O IN THE ARCHITECTURAL DRAWINGS OR ELSEWHERE IN THE			14. COORDINATE ALL WORK WITH OTHER TRADES AND
ONSTRUCTION DOCUMENTS. FINAL APPROVAL OF LOCATIONS BY CHITECT. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE			
DNSTRUCTION DOCUMENTS, ARE AFF, UNO. ALL DEVICES SHALL BE STALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL	HOSE BIBB (HB)		15. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRA BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRE
EQUIREMENTS.			AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL
NNOTATION	个 MANUAL / AUTOMATIC AIR VENT OR	ACUUM RELIEF	ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.
1 PLUMBING PLAN NOTE CALLOUT	••••••••••••••••••••••••••••••••••••••		16. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO
PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR			TURNING BUILDING OVER TO THE OWNER.
1 FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES	CLEANOUT	VVENT PIPING (V)	17. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
		AW ACID WASTE - ABOVE FLOOR (AW)	18. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANE
EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)			DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.
		AV ACID VENT (AV)	19. PAINT ALL EXPOSED WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH TH
CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	EXTERIOR CLEANOUT (ECO) ELBOW UP	GWS-GWS-GRAY WATER (GWS)	ARCHITECT AND / OR OWNER.
		CA————————————————————————————————————	20. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRAD MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES.
CONNECTION POINT OF NEW WORK TO EXISTING		————MA———— MEDICAL AIR (MA)	MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER		MV	21. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WI MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
	ELBOW UP WITH SHUT-OFF VALVE (HELIUM (HE)	22. PROVIDE "HEAVY-DUTY" NO-HUB COUPLINGS ON SANITARY PIPING 3" AND LARGER. SEE DIVISION 22 SPECIFICATION
1 SECTION CUT DESIGNATION	ELBOW DOWN WITH SHUT-OFF VAL	IA INSTRUMENT AIR (IA)	SECTION "SANITARY DRAINAGE AND VENT AND PIPING SPECIALTIES" FOR MORE INFORMATION.
BREVIATIONS	TEE UP WITH SHUT-OFF VALVE (SO	INSTRUMENT VACUUM (IV)	23. PROVIDE TRANSITION ADAPTER COUPLINGS FOR CONNECTI
DA AMERICANS WITH MIN MINIMUM		N2	OF PVC DWV TO CAST IRON SANITARY, WASTE AND VENT PI AT SLAB ON GRADE. SEE DIVISION 22 SPECIFICATION SECTION
DISABILITIES ACT N/C NORMALLY CLOSED F ABOVE FINISHED FLOOR N/O NORMALLY OPEN	^{"A"} WATER HAMMER ARRESTER (WHA)		"SANITARY DRAINAGE AND VENT PIPING AND SPECIALTIES" MORE INFORMATION.
G ABOVE FINISHED GRADE NIC NOT IN CONTRACT U AIR HANDLING UNIT ORD OVERFLOW ROOF DRAIN	(A, B, C, D, & E)		24. FLOW CONTROL VALVES SHALL BE SIZE 1/2" AND SET AT 0.5
ACCESS PANEL PDI PLUMBING DRAINAGE S BUILDING AUTOMATION INSTITUTE		EV—EV—EVAC/WAGD (EV)	GPM UNLESS NOTED OTHERWISE.
SYSTEM PH/Ø PHASE F BELOW FINISHED FLOOR PRV PRESSURE REDUCING	→ → → → → → → → → → → → → → → → → → →		25. WATER HAMMER ARRESTORS SHALL BE SIZE "A" UNLESS NOTED OTHERWISE.
G BELOW FINISHED GRADE VALVE DP BOTTOM OF PIPE PVC POLYVINYL CHLORIDE	GAS COCK		26. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN
DS BOTTOM OF STRUCTURE RCP REINFORCED CONCRETE	TRAP PRIMER	NIT DA DENTAL AIR (DA)	HOT AND COLD WATER SUPPLIES FOR MOP SINK FAUCETS DOWNSTREAM OF SHUTOFF VALVES.
P CONDENSATE PUMP RD ROOF DRAIN PVC CHLORINATED POLYVINYL RPM REVOLUTIONS PER		DENTAL AIR (DA)	27. PROVIDE WALL PIPES AT PIPING PENETRATIONS OF ELEVAT
CHLORIDE MINUTE J COPPER RTU ROOFTOP UNIT DUCTILE IRON SF SQUARE FEET		FW1FILTERED WATER (FW1)	
DUCTILE IRONSFSQUARE FEETNDOWNSPSUMPSUDRAINAGE FIXTURE UNITSSSTAINLESS STEEL		FW2FILTERED WATER W/ SCALE INHIBITOR (FW2)	28. VERIFY EXISTING EQUIPMENT, INCLUDING ACCESSORIES, IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE ARCHITECT.
DOWNSPOUT EXISTING STACK			29. PROVIDE SIZE AND LENGTH OF HOT WATER FIXTURE SUPPL
IS ENERGY MANAGEMENT TDH TOTAL DYNAMIC HEAD SYSTEM TFA TO FLOOR ABOVE			PIPE FROM CIRCULATED HOT WATER BRANCH OR MAIN TO TERMINATION OF HOT WATER FIXTURE SUPPLY PIPE AT EAC
R EXISTING TO REMAIN TFB TO FLOOR BELOW VC ELECTRIC WATER COOLER TYP TYPICAL	LINETYPE LEGEND		FIXTURE PER 2015 INTERNATIONAL ENERGY CONSERVATION CODE, TABLE C404.3.1. FOR ½" HOT WATER FIXTURE SUPPL
D FLOOR DRAIN UL UNDERWRITERS FA FROM FLOOR ABOVE LABORATORIES, INC.	THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE U		PIPE SIZE TO INDIVIDUAL LAVATORIES, PROVIDE MAXIMUM LENGTH OF TWO FEET. FOR $\frac{1}{2}$ " HOT WATER FIXTURE SUPP
B FROM FLOOR BELOW UNO UNLESS NOTED FINISHED FLOOR OTHERWISE	COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF	NEW WORK	PIPE SIZE TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTI OF 43 FEET. FOR 3/4" HOT WATER FIXTURE SUPPLY PIPE SI
A FULL LOAD AMPS UPS UNINTERRUPTIBLE DA FULL LOAD AMPS POWER SUPPLY	AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATI	E TO THE	TO INDIVIDUAL SINKS, PROVIDE MAXIMUM LENGTH OF 21 FE
LR FLOOR VCP VITRIFIED CLAY PIPE PM GALLONS PER MINUTE VFD VARIABLE FREQUENCY	VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWING INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCT	ION PHASING,	
D HEAD, HUB DRAIN DRIVE	WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF TH RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CO	NSTRUCTION	
NWC INCHES OF WATER COLUMN W/ WITH	DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICA ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE F	LLOWING	
INVERT ELEVATIONVTRVENT THROUGH ROOFWCINCHES OF WATER COLUMNW/WITHJUNCTION BOXW/OWITHOUTBOXJUNCTION BOXWCWATER COLUMN	DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICA	LLOWING	
INVERT ELEVATIONVTRVENT THROUGH ROOFWCINCHES OF WATER COLUMNW/WITHJUNCTION BOXW/OWITHOUTBOXJUNCTION BOXWCWATER COLUMN	DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICA ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE F LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE	LLOWING	

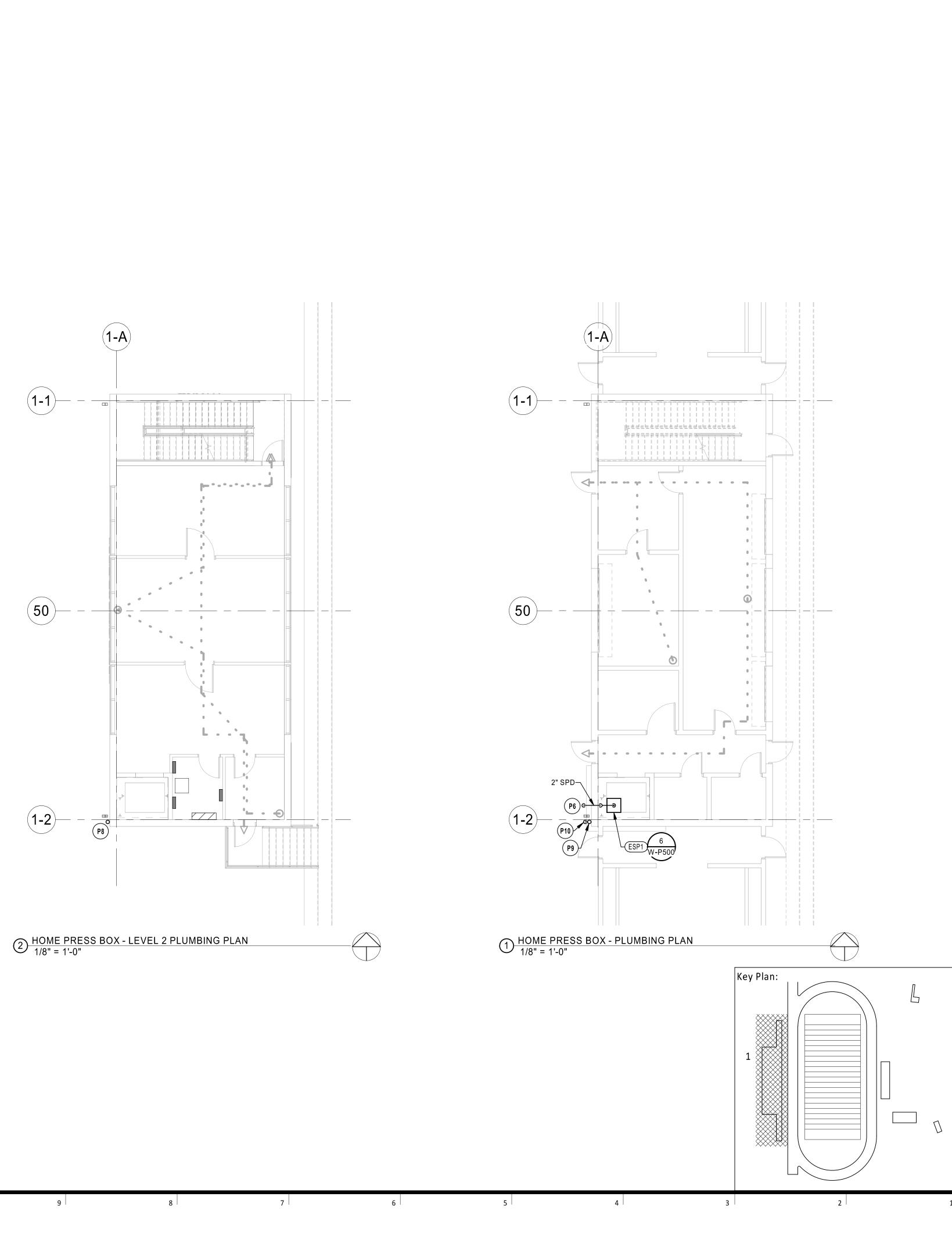
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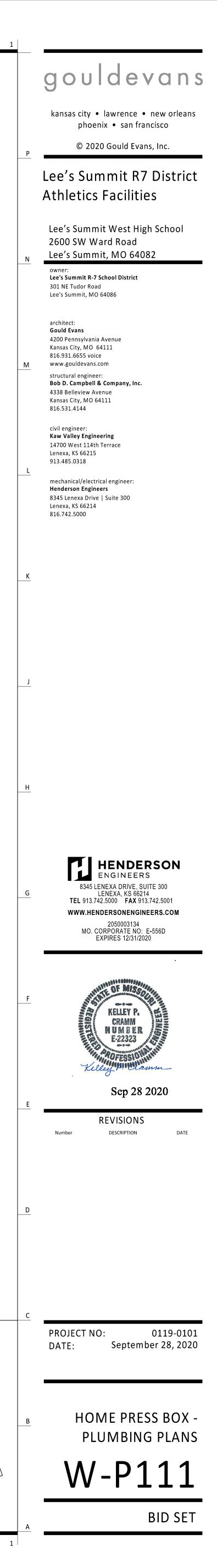


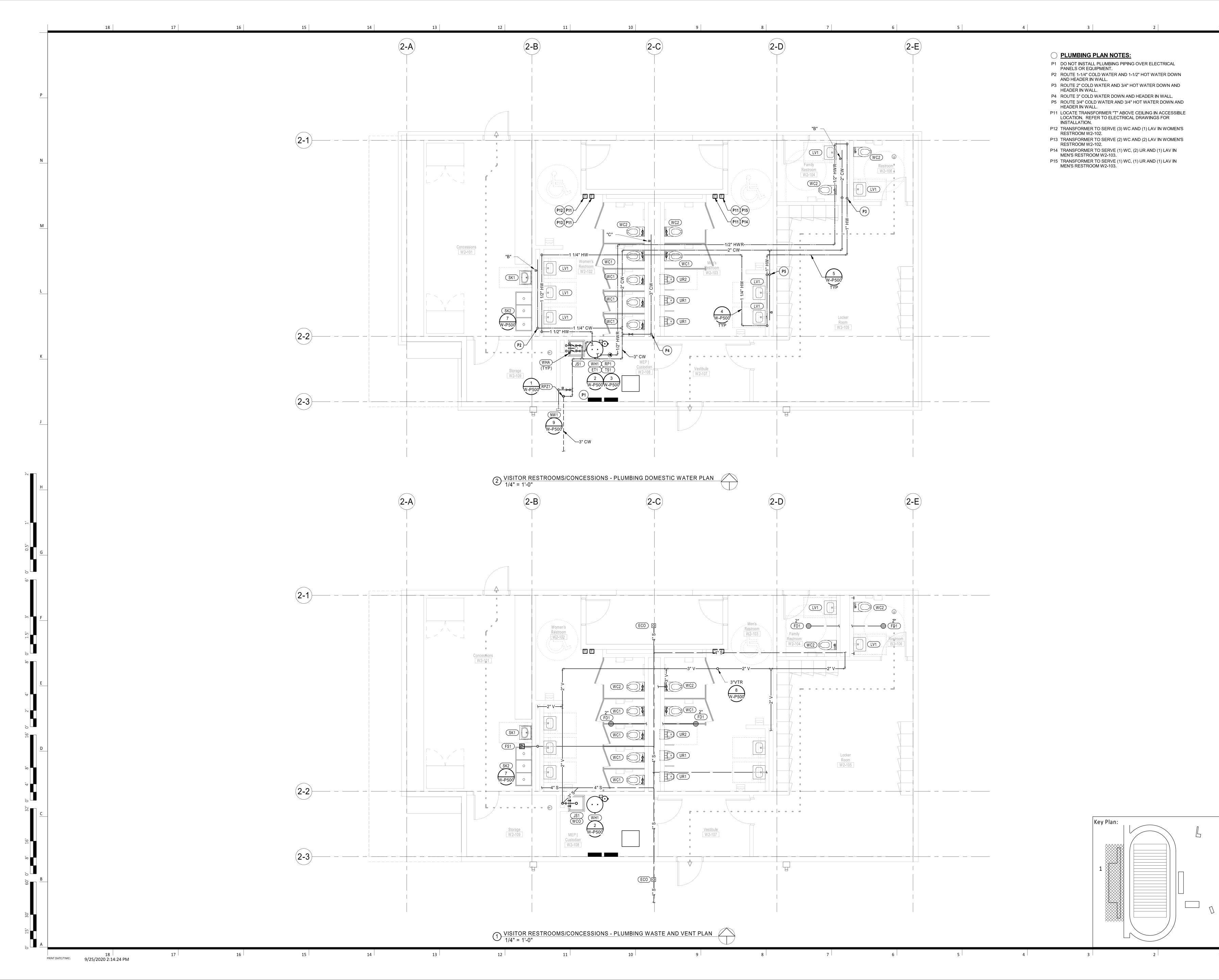


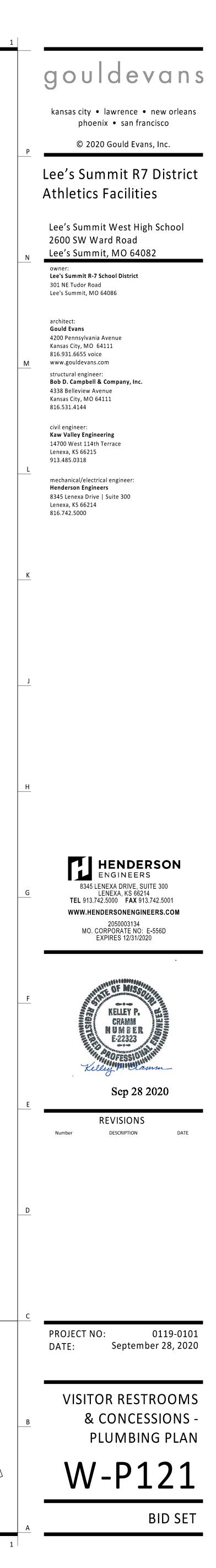


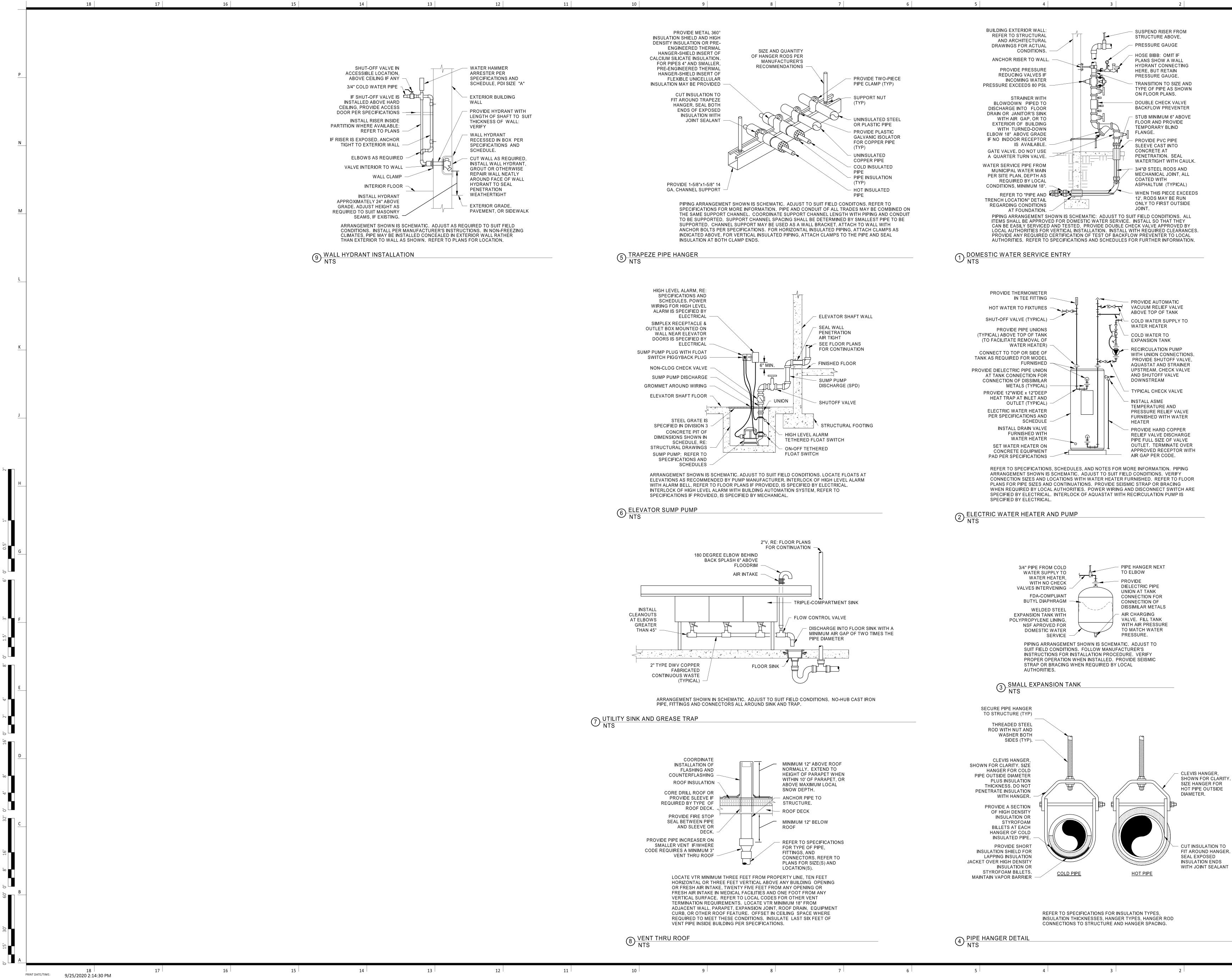
- P6 ELEVATOR SUMP PUMP PIPING SHALL DISCHARGE TO GRADE.
- P7 3/4" CONDENSATE DRAIN TFB.

- P9 3/4" CONDENSATE DRAIN FFA. P10 3/4" CONDENSATE DRAIN SHALL DISCHARGE TO GRADE.
- P8 3/4" CONDENSATE DRAIN FFA AND TFB.

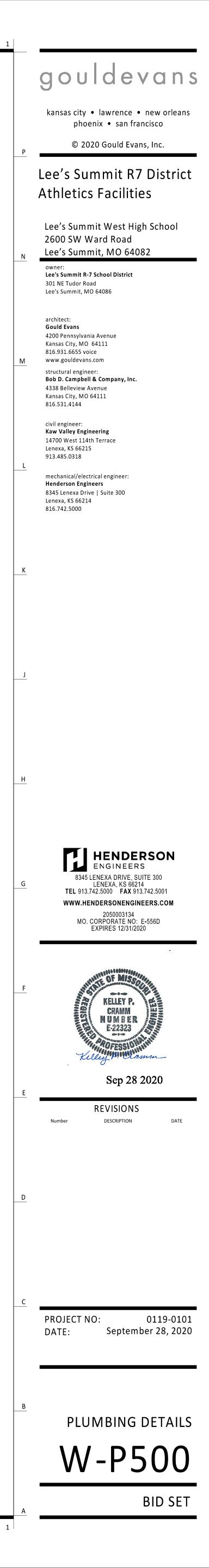


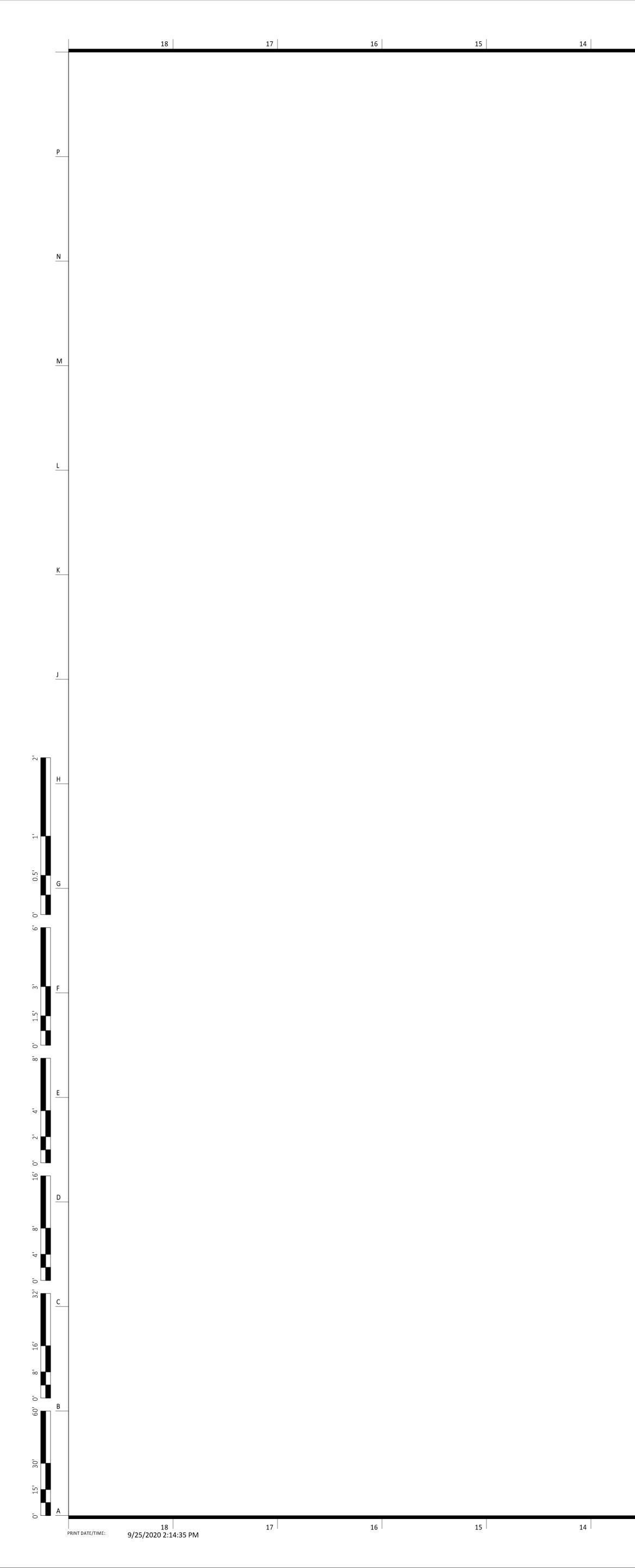






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ELE	ELECTRIC STORAGE WATER HEATER SCHEDULE								
	MANUFACTURE		AREA	TANK SIZE	ELE	CTRICAL DATA			
MARK	R	MODEL#	SERVED	(GALLONS)	VOLTS	PHASE	KW	WEIGHT (LBS)	NOTES
WH1	A.O. SMITH	#DRE-80	ENTIRE	80	480	3	24	950	А
			BUILDING						

NOTES:

A. 100°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.

MARK ESP1	MANUFACTURER WEIL	MODEL 1411-538	LOCATI ELEVATO) (FT.) SIZE	HARGE E (IN.) 2"
E3F1		1411-000		ית דוון 50	2	.1 .	۷
OTES:							
	VIDE WEIL #8245 FLOA VIDE WITH WEIL #8341						
. PRO	VIDE 2" DISCHARGE P	IPING, SHUTC	OFF VALVE A	ND ZOELLER #3			
	ER TO DETAIL FOR MC ALL IN 24"SQUARE x 2				R PIT SEE AF	CHITECTURAL	DRAW
		I DEEL COM					Brown
PL	UMBING	EXP	ANSI	ON TA	NK S	CHED	UL
PL	UMBING	EXP	ANSI	ON TA	NK S	CHED	UL
PL	UMBING	EXP		MIN. ACCEPTANCE	NK S	CHED	UL
PL	UMBING		ANSI TANK SIZE (GALLONS)	MIN.	NK S	CHED WEIGHT (LBS	
			TANK SIZE	MIN. ACCEPTANCE VOLUME			

					JMP S				
				HEAD	CONNECTION	ELECTF	RICAL	DATA	
MARK I	MANUFACTURER	MODEL	GPM	(FT.)	SIZE	VOLTS	PH	HP	NOT
RP1 E	BELL & GOSSETT	NBF-9U	1	7	3/4"	120	1	1/18	A-E

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

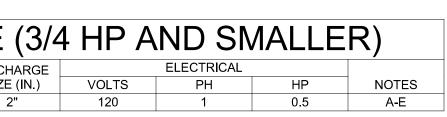
PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10°F BELOW SET POINT.

FIXTURE BRANCH C	ONNEC	CTION	SCH
FIXTURE	COLD WATER	HOT WATER	WASTE
FLOOR DRAIN			2"
JANITOR'S SINK	1/2"	1/2"	3"
LAVATORY/HAND SINK	1/2"	1/2"	2"
SINK	1/2"	1/2"	2"
URINAL	1"	1"	2"
WATER CLOSET (FLUSH VALVE)	1 1/4"		4"

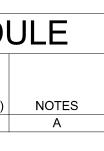
NOTE: PIPE SIZES SHOWN ARE MINIMUM.

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12



CIFICATIONS. CHECK VALVE.



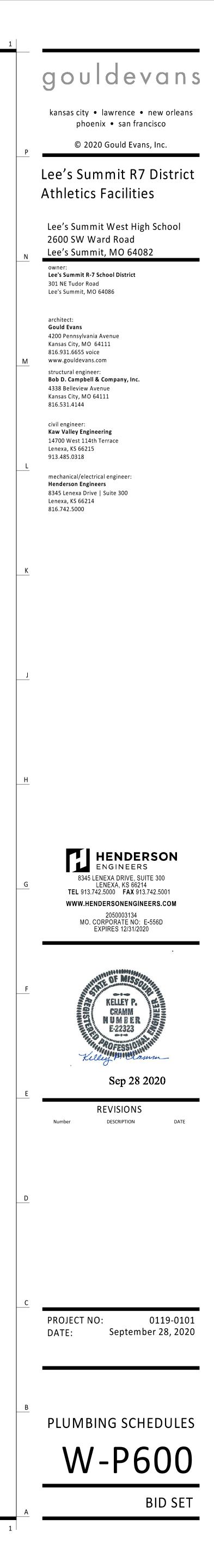
NOTES A-E

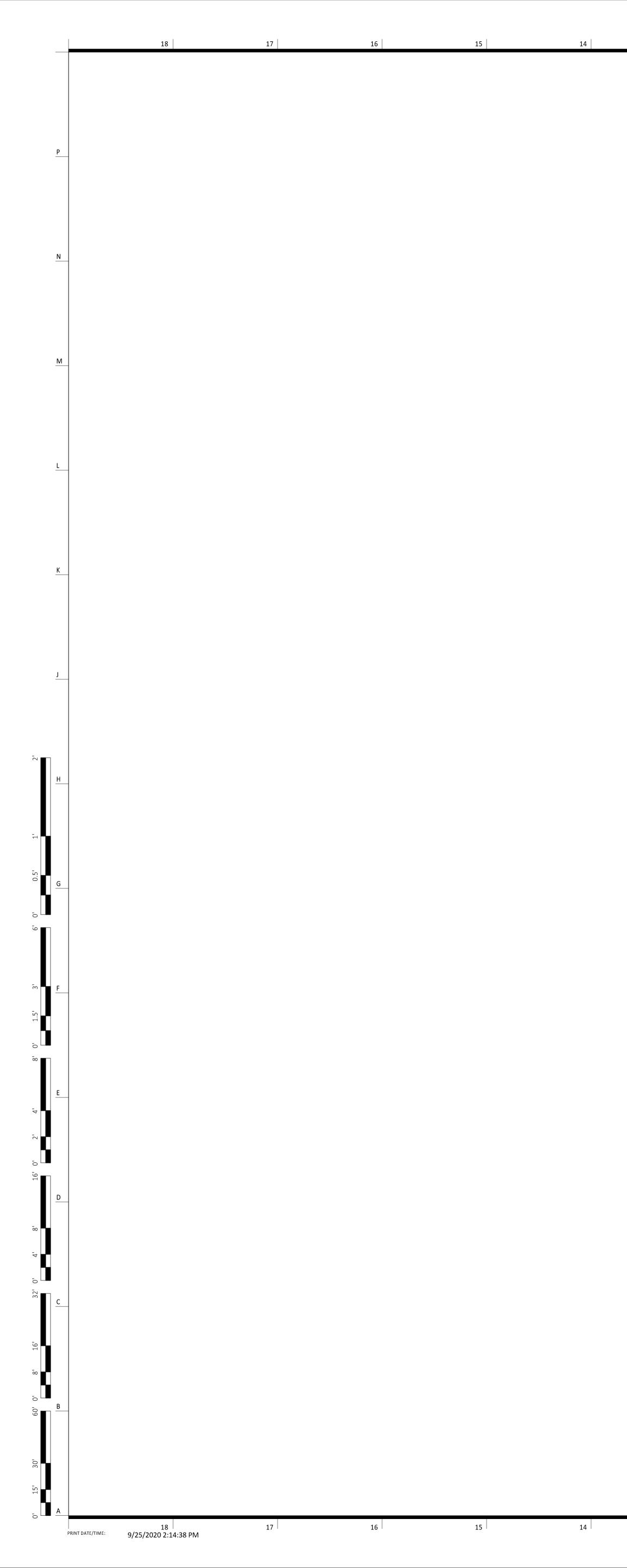
HE	DULE
STE	VENT
"	2"
"	2"
"	1 1/2"
"	2"
"	2"
"	2"

PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

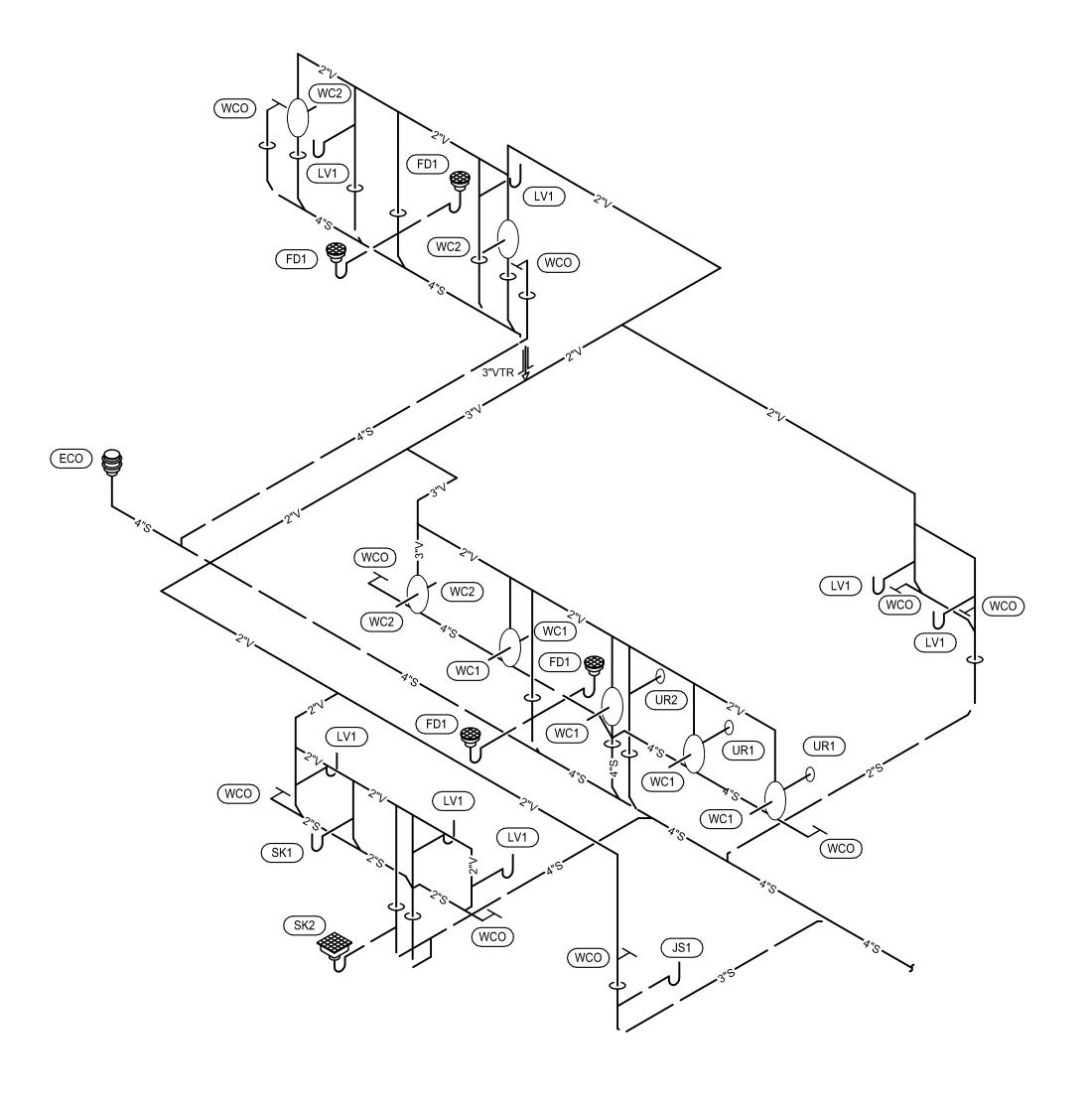
HEIGHTS.	JMBING FIXTURE SCHEDULE
PLUMBING PLAN MARK	DESCRIPTION
ECO	EXTERIOR CLEANOUT: JAY R. SMITH # 4261L SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH-ON JOINT. REFER TO SPECIFICATIONS FOR
EWC1	INSTALLATION. ELECTRIC WATER COOLER (ADA ACCESSIBLE): ELKAY VRCTLDDWSK BARRIER FREE, LEAD FREE WITH BOTTLE FILLING STATION. FRONT ACTUATOR BUTTON, STAINLESS STEEL BOWL, VANDAL RESISTANT BUBBLER AND STAINLESS STEEL FRONT AND SIDES. NON CHILLED, NON FILTERED. BOTTLE FILLING STATION: ELECTRONIC SENSOR FOR TOUCHLESS ACTIVATION WITH AUTO 20-SECOND SHUT-OFF TIMER, UNIT PROVIDES 1.1-1.5 GPM WITH LAMINAR FLOW TO MINIMIZE
	SPLASHING. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO FLOOR. ELECTRICAL REQUIREMENTS: 120-VOLT, 1 FULL LOAD AMPS.
FD1	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 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE.
NW1	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 SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.
RPZ1	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 #77F-DI-FDA EPOXY COATED CAST IRON STRAINER AND # 957AG AIR GAP FITTING. HAND SINK (ADA ACCESSIBLE): HAND SINK ADA ACCESSIBLE): ELKAY #
361	#CHS-1716, 16-3/4"" X 15-1/2" RÉCTANGULAR, 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,
SK2	100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE. 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" – 3 3/8" ADJUSTABLE "R" ARMS WITH INTEGRAL SHUT OFF, VANDAL RESISTANT # 369 LEVER HANDLES, L9 SWING SPOUT, # E1 FULL FLOW OUTLET, QUARTER TURN CERAMIC CARTRIDGES.
	TRIM: (3) ELKAY # LK24RT GRID STRAINERS WITH LEVER HANDLE AND 1-1/2" TAILPIECE, AND 1-1/2" HARD COPPER TYPE "DWV" FABRICATED INDIRECT WASTE LINE ROUTED TO FLOOR SINK.
Т	TRANSFORMER: SLOAN # EL-154 120 VAC / 24 VAC, 50 VA. REFER TO ELECTRICAL DRAWINGS FOR WIRING OF TRANSFORMER.
UR1	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. URINAL: AMERICAN STANDARD # 6561.017 "TRIMBROOK" WHITE VITREOUS CHINA
UIXI	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. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.
UR2	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. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.
WC1	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, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.
WC2	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	WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK PLUG, STAINLESS STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPECIFICATIONS FOR INSTALLATION.
WHA	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.



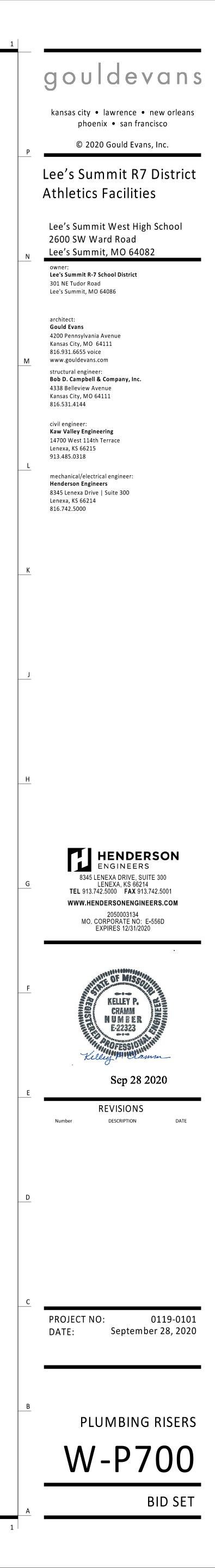


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	13	12	11	10	9	8





1 PLUMBING RESTROOM WASTE AND VENT RISER NTS





STANDARD MOUNTING HEI	AND NOT ALL SYMBOLS OR ABBE	HVAC DUCTWORK AND ACCESSORIES	PIPING SYMBOLS	PIPING LINETYPES
THERMOSTATS (USER ADJUSTABL CONTROLS (TOP OF DEVICE)	E)(TOP OF DEVICE) 48" 48"	LINEAR SLOT DIFFUSER		
х, , , , , , , , , , , , , , , , , , ,		INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)	CONTROL VALVE	ACD AUXILIARY CONDENSATE DRAIN (ACD)
CONSTRUCTION DOCUMENTS. MO ELSEWHERE IN THE CONSTRUCTIO	G HEIGHTS SHOWN ABOVE UNO IN THE JNTING HEIGHTS LISTED ABOVE OR N DOCUMENTS ARE AFF OR AFG TO	BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER		——————————————————————————————————————
BOTTOM OF DEVICE UNO. ALL DEV COMPLIANCE WITH CURRENT ADA		ELBOW WITH TURNING VANES	CHECK VALVE BALANCING VALVE WITH PRESSURE PORTS	— — — G — — NATURAL GAS ON ROOF (G) — — MPG — MEDIUM PRESSURE NATURAL GAS (MPG)
ANNOTATION (1) MECHANICAL PLAN N	DTE CALLOUT	BRANCH DUCT WITH BELL-MOUTH FITTING &		— — MPG— — MEDIUM PRESSURE NATURAL GAS ON ROO
	ENT DESIGNATION (CONTRACTOR	MANUAL VOLUME CONTROL DAMPER	STRAINERSTRAINER WITH BLOWDOWN VALVE	FOS FUEL OIL SUPPLY (FOS)
	ALLED UNLESS NOTED OTHERWISE)	RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP		FOV FUEL OIL VENT (FOV)
	OF NEW WORK TO EXISTING	RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN	SOLENOID VALVE	LIQUEFIED PETROLEUM GAS (LPG) BOILER FEED WATER (BFW)
	JPPER NUMBER INDICATES DETAIL IBER INDICATES SHEET NUMBER			HPS HIGH PRESSURE STEAM SUPPLY (HPS)
M1 SECTION CUT DESIGN	ATION		THERMOSTATIC MIXING VALVE PA PIPE ANCHOR	— — HPC— — HIGH PRESSURE STEAM CONDENSATE (HP ——LPS—— LOW PRESSURE STEAM SUPPLY (LPS)
ABBREVIATIONS				— —LPC— — LOW PRESSURE STEAM CONDENSATE (LPC
A/C AIR CONDITIONING ACC AIR COOLED CHILLER ACCU AIR COOLED CONDENSIN	HWP HEATING WATER PUMP IN WC INCHES OF WATER COLUMN	10" (NECK SIZE) CSD-1 (TYPE) 300 CFM (CFM OF SUPPLY DIFFUSER OR REGISTER)	PIPE GUIDE PIPING SUPPORT	PD CONDENSATE PUMP DISCHARGE (PD) HEATING HOT WATER SUPPLY (HWS)
UNIT AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR	L LOUVER LAT LEAVING AIR TEMPERATURE		F & T TRAP	
AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION	LDB LEAVING DRY BULB LP LOW PRESSURE LWB LEAVING WET BULB	24x24 (NECK SIZE) CEG-1 (TYPE) 800 CFM (CFM OF EXHAUST GRILLE)	BUCKET TRAP	CHWS CHILLED WATER SUPPLY (CHWS) CHUR CHILLED WATER RETURN (CHR)
AHU AIR HANDLING UNIT AI ANALOG INPUT AO ANALOG OUTPUT	LWT LEAVING WATER TEMPERATURE MAU MAKE-UP AIR UNIT	MANUAL VOLUME DAMPER	BACKFLOW PREVENTER	HCS HOT / CHILLED WATER SUPPLY (HCS)
AP ACCESS PANEL APD AIR PRESSURE DROP AWG AMERICAN WIRE GAUGE	MAX MAXIMUM MBH 1000 BTU PER HOUR MD MOTORIZED DAMPER	SQUARE TO ROUND TRANSITION	♀ PRESSURE GAUGE ■ THERMOMETER	— HCR HOT / CHILLED WATER SUPPLY (HCR) CONDENSER WATER SUPPLY (CWS)
AWG AMERICAN WIRE GAUGE B BOILER BAS BUILDING AUTOMATION SYSTEM	MFR MANUFACTURER MIN MINIMUM N/A NOT APPLICABLE	RD DUCT MOUNTED SMOKE DETECTOR	PRESSURE AND TEMPERATURE TEST PLUG	CWS CONDENSER WATER SUPPLY (CWS)
BB BACKBONE BD BACKDRAFT DAMPER BD BLOWDOWN	N/A NOT APPLICABLE N/C NORMALLY CLOSED N/O NORMALLY OPEN NOM NOMINAL	(SD=SUPPLY/RD=RETURN) XX" Ø ROUND DUCT TAG INDICATING DIAMETER	UNION FLANGE CONNECTION	HPWS HEAT PUMP WATER SUPPLY (HPWS)
BD BLOWDOWN BFC BELOW FINISHED CEILING BFF BELOW FINISHED FLOOR BFG BELOW FINISHED GRADE		XX" X XX" RECTANGULAR DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS.		HPWR HEAT PUMP WATER RETURN (HPWR) REFRIGERANT LIQUID (RL)
BFGBELOW FINISHED GRADEBFPBOILER FEED PUMPBHPBRAKE HORSEPOWERBIBINARY INPUT	OA OUTSIDE AIR PICV PRESSURE INDEP. CONTROL VALVE	XX' / XX" FLAT OVAL DUCT TAG INDICATING INTERNAL DUCT DIMENSIONS	□ □ □ AUTOMATIC AIR VENT □ ↓ MV MANUAL AIR VENT	REFRIGERANT DISCHARGE (HOT GAS) (RD)
BOBINARY OUTPUTBODBOTTOM OF DUCT	PROVIDE FURNISH AND INSTALL QTY QUANTITY	RISER DESIGNATION		REFRIGERANT SUCTION (RS)
BOS BOTTOM OF STRUCTURE BTU BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE	RA RETURN AIR RC ROOM CRITERIA RD RETURN DUCT REA RELIEF AIR	FD FIRE DAMPER	CLEANOUT CAP	
CH CHILLER CLG COOLING CP CONDENSATE PUMP CPT CONTROL POWER	RF RETURN FAN RFR REFRIGERANT RH RELATIVE HUMIDITY	FSD FIRE SMOKE DAMPER	ELBOW UP	
TRANSFORMER CRAC COMPUTER ROOM AIR	RHROOF HOODRPMREVOLUTIONS PER MINUTERTUROOFTOP UNIT	SD SMOKE DAMPER	ELBOW DOWN	
CONDITIONING UNIT CRU COMPUTER ROOM UNIT CT COOLING TOWER	SA SUPPLY AIR SCP STEAM CONDENSATE PUMP		TEE DOWN	
CV CONTROL VALVE CWP CONDENSER WATER PUMP	SD SMOKE DUCT DETECTOR SD SUPPLY DUCT SF SUPPLY FAN SH SENSIBLE HEAT CAPACITY	MD MOTORIZED DAMPER	ELBOW UP WITH SHUT-OFF VALVE (SOV)	
CU CONDENSING UNIT CHWP CHILLED WATER PUMP DB DECIBELS	SOW SCOPE OF WORK SP STATIC PRESSURE	BD BACKDRAFT DAMPER	TEE UP WITH SHUT-OFF VALVE (SOV)	
DBA DECIBEL AVERAGE DDC DIRECT DIGITAL CONTRO DI DIGITAL INPUT	TBD TO BE DETERMINED	ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.	TEE DOWN WITH SHUT-OFF VALVE (SOV)	
DISC DISCONNECT DN DOWN DS DUCT SILENCER DX DIRECT EXPANSION	TC/C TEMPERATURE CONTROLS CONTRACTOR TCP TEMPERATURE CONTROL PANEL	REFER TO DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATION.		
DX DIRECT EXPANSION (E) EXISTING EA EXHAUST AIR EAT ENTERING	TF TRANSFER FAN TFA TO FLOOR ABOVE TFB TO FLOOR BELOW	HVAC CONTROL DEVICES HUMIDISTAT	∞ P-TRAP GAS COCK	
AIR TEMPERATURE ED EXHAUST DUCT EDB ENTERING DRY BULB	TH TOTAL HEAT CAPACITY TSP TOTAL STATIC PRESSURE TT TEMPERATURE		TOP BEAM CLAMP	
EF EXHAUST FAN EFF EFFICIENCY EMS ENERGY MANAGEMENT	TRANSMITTAL TYP TYPICAL U/F UNDERFLOOR	SPSTATIC PRESSURE SENSORTSTEMPERATURE SENSOR	TRAPEZE HANGER	LINETYPE LEGEND
ENERGY MANAGEMENT SYSTEM ESP EXTERNAL STATIC PRESSURE	U/G UNDERGROUND U/S UNDERSLAB UH UNIT HEATER	CO CARBON MONOXIDE SENSOR		THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF IT EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW V
ETR EXISTING TO REMAIN EWB ENTERING WET BULB EWT ENTERING WATER	UNO UNLESS NOTED OTHERWISE VAV VARIABLE AIR VOLUME VEL VELOCITY	CO2CARBON DIOXIDE SENSORDPDIFFERENTIAL PRESSURE SENSOR		AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE F THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS N
TEMPERATURE FCU FAN COIL UNIT FFA FROM FLOOR ABOVE	VFD VARIABLE FREQUENCY DRIVE VRF VARIABLE REFRIGERANT	FS FLOW SWITCH		INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION P WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTR
FFB FROM FLOOR BELOW FF FINISHED FLOOR FPI FINS PER INCH	VRV VARIABLE REFRIGERANT VRV VARIABLE REFRIGERANT VOLUME	HS HUMIDITY SENSOR PS PULL STATION		DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BE ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOW LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE
FPM FEET PER MINUTE GC GENERAL CONTRACTOR GPM GALLONS PER MINUTE	W/ WITH W/O WITHOUT WB WET BULB	RT REMOTE TESTING STATION WITH INDICATING LIGHT		ETC.
HOA HAND-OFF-AUTOMATIC HP HORSEPOWER HTG HEATING	WC WATER COLUMN WPD WATER PRESSURE DROP XP EXPLOSION PROOF	SPSTATIC PRESSURETSTEMPERATURE SENSOR		
HIG HEATING	AF EXPLOSION FROOF			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.
- 7. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY DIVISION 23 UNLESS OTHERWISE NOTED. 8. 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.
- 9. 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
- 11. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.

WERE OPERATED SHALL ALSO BE CLEANED.

- 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. 18. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE
- RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL. 19. LOCATE AND SET THERMOSTATS AND HUMIDISTATS 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. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES, PROVIDE WITH INTEGRAL MANUAL BALANCING DAMPER AND LOCKING QUADRANT WHERE INDICATED ON PLANS.

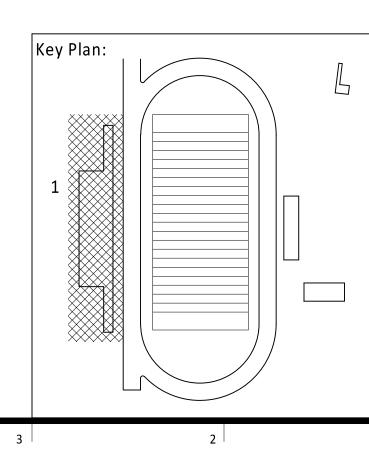
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- 23. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.
- 24. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.
- 25. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. 26. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH
- SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS. 27. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING

SYSTEM(S) OVER TO OWNER.

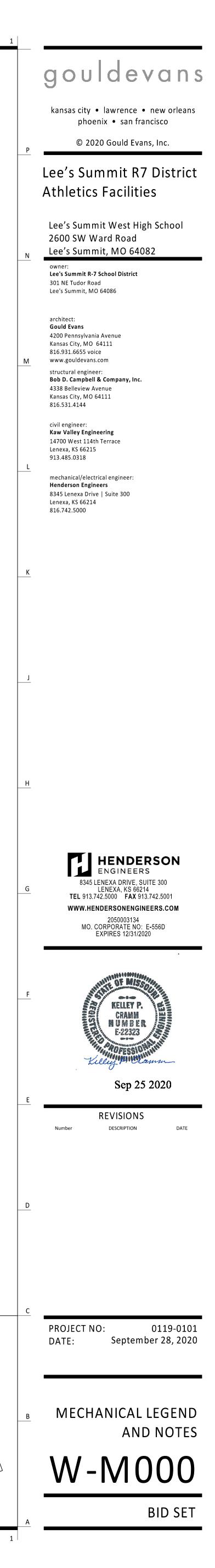
- 28. FIELD VERIFY THAT THE EXISTING EQUIPMENT INCLUDING ACCESSORIES BEING REUSED FOR THIS PROJECT IS NOT DAMAGED AND IS IN GOOD WORKING ORDER. REPORT ANY DEFICIENCIES TO THE OWNER OR ARCHITECT. SUBMIT TO THE OWNER AND ARCHITECT A WRITTEN REPORT DESCRIBING TESTS PERFORMED TO VERIFY OPERATION AND RESULTS OF THE TESTS.
- 29. CLEAN EXISTING EQUIPMENT AND EQUIPMENT COMPONENTS BEING REUSED FOR THIS PROJECT. PROVIDE NEW FILTERS FOR EXISTING AIR HANDLING EQUIPMENT PRIOR TO STARTUP OF EQUIPMENT. NEW FILTERS SHALL BE COMPATIBLE WITH THE EXISTING EQUIPMENT AND EQUAL IN PERFORMANCE TO THE EXISTING FILTERS AT NEW CONDITION UNLESS OTHERWISE NOTED. CLEAN STRAINERS IN PIPING SYSTEMS PRIOR TO STARTING PUMPS.
- 30. CLEAN THE EXTERIOR OF EXISTING COILS TO BE REUSED FOR THIS PROJECT. VACUUM BRUSH THE COIL IN THE DIRECTION OF THE FINS AND CLEAN THE COILS WITH COIL CLEANING FLUID. COMB ANY FINS BENT TO PROVIDE A STRAIGHT SURFACE FOR AIRFLOW.
- 31. LUBRICATE EXISTING EQUIPMENT BEING REUSED FOR THIS PROJECT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. OBTAIN INSTRUCTIONS FROM MANUFACTURER IF THEY ARE NOT AVAILABLE AT THE SITE.

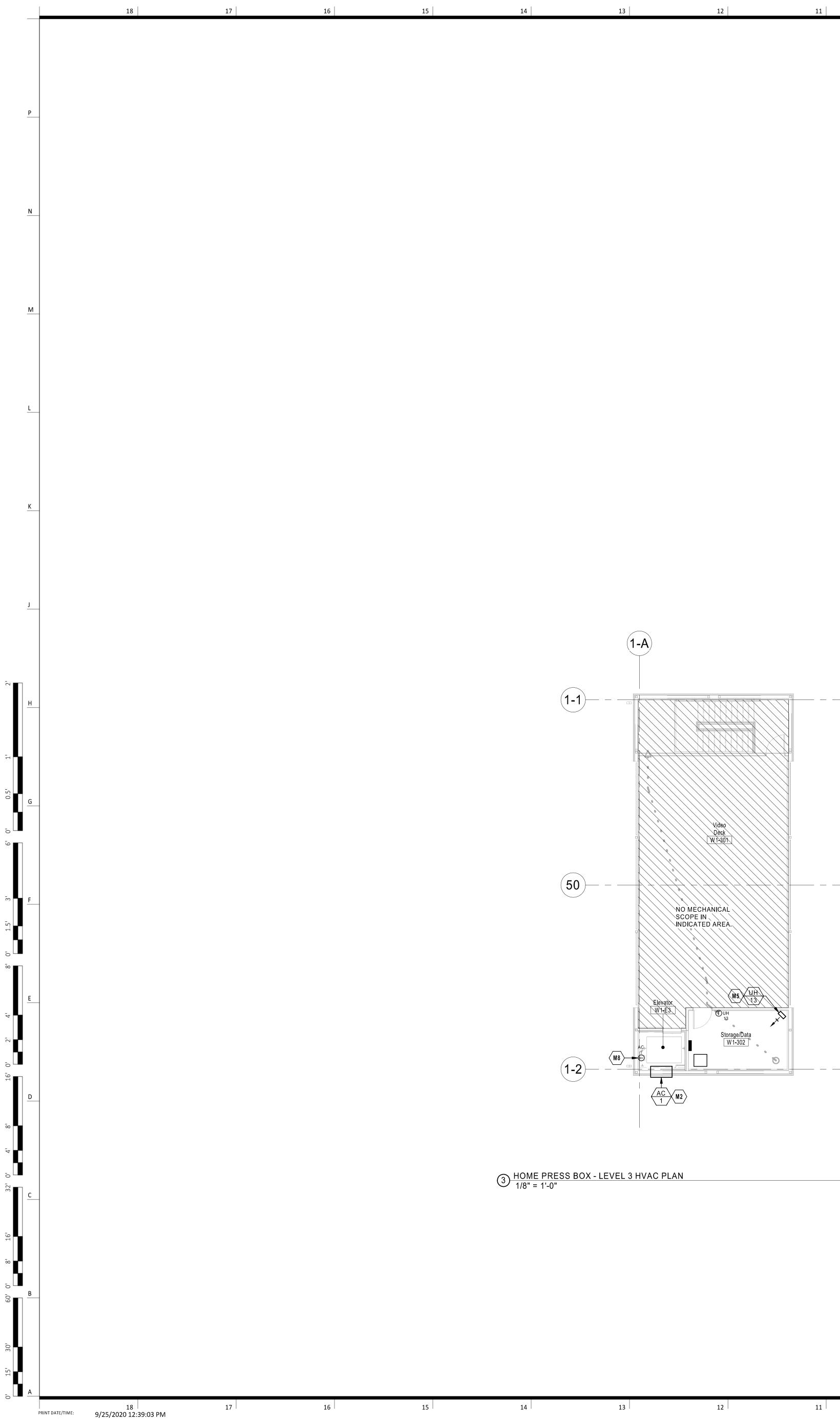
Sh	neet List - Mechanical
Sheet Number	Sheet Name
W-M000	MECHANICAL LEGEND AND NOTES
W-M111	HOME PRESS BOX - HVAC PLAN
W-M121	VISITOR RESTROOMS & CONCESSIONS - HVAC PLANS
W-M131	TICKET BOOTH - HVAC PLANS
W-M500	MECHANICAL DETAILS
W-M600	MECHANICAL SCHEDULES & CONTROLS
Grand total: 6	•



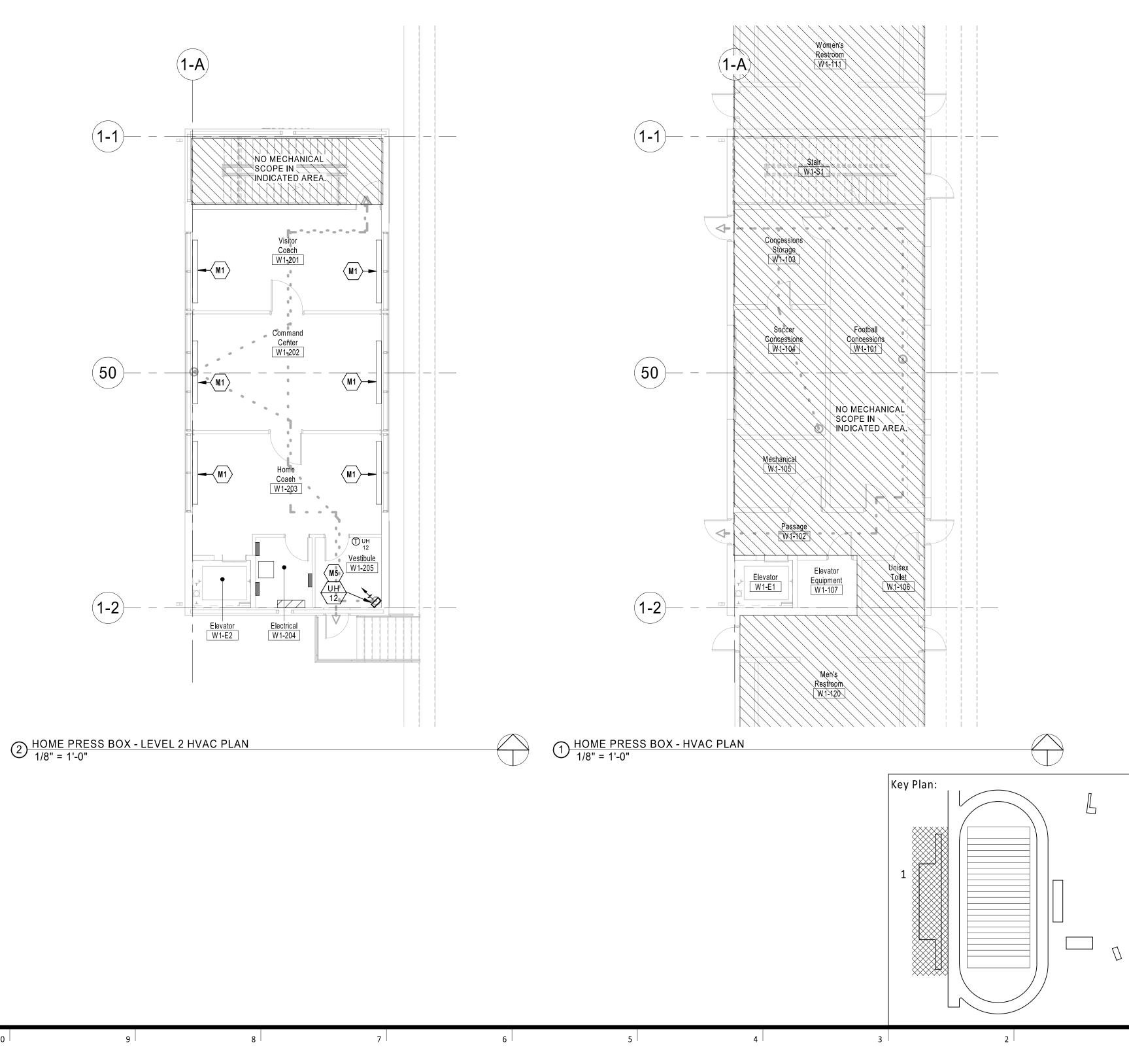
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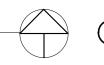
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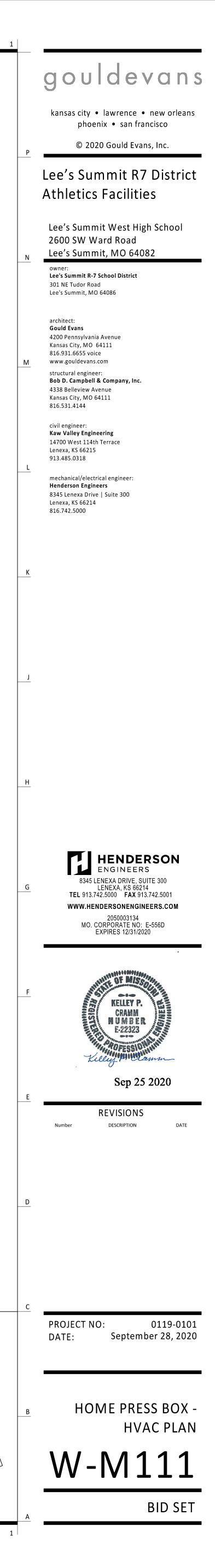


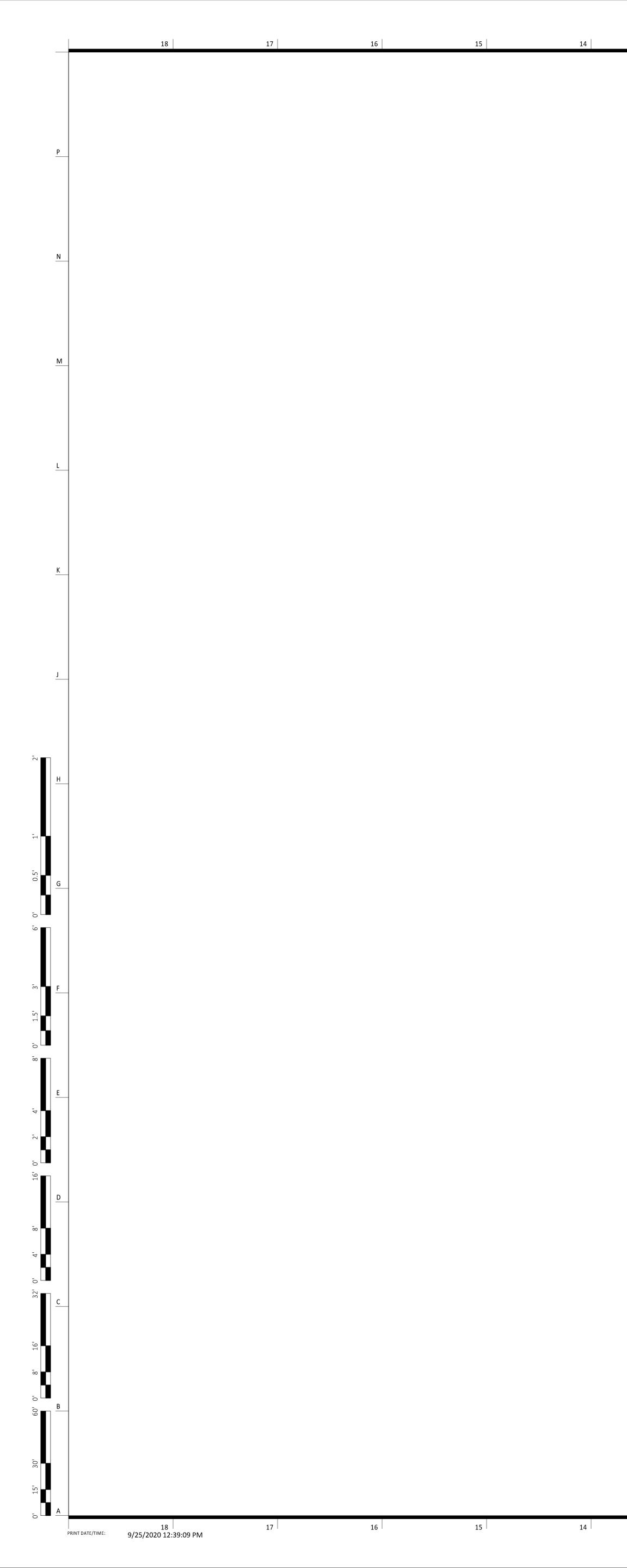
ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS. M8 INSTALL THERMOSTAT IN ELEVATOR SHAFT AS CLOSE AS POSSIBLE TO ELEVATOR CONTROLLER WITHOUT INTERFERING WITH ELEVATOR OPERATION.

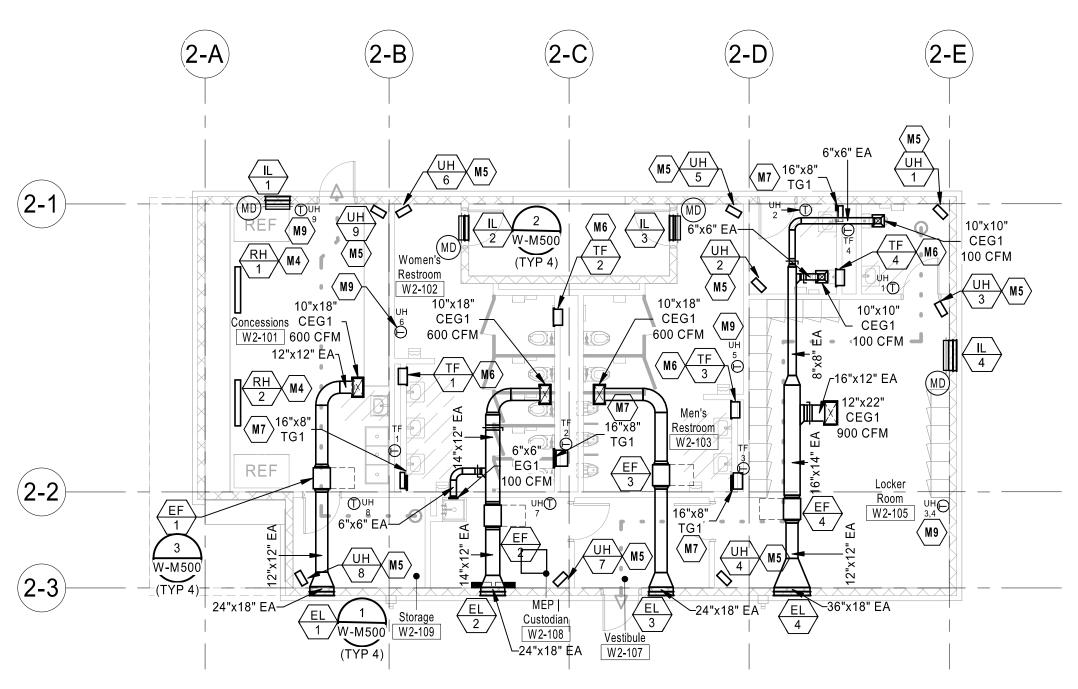
M1 EXISTING HEATER AND ALL ASSOCIATED ACCESSORIES TO REMAIN. M2 INSTALL PACKAGED TERMINAL AIR CONDITIONER IN WALL AT TOP OF THE ELEVATOR SHAFT AS NOT TO INTERFERE WITH ELEVATOR OPERATION. COORDINATE FINAL LOCATION WITH ELEVATOR MANUFACTURER REQUIREMENTS. M5 INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE

MECHANICAL PLAN NOTES:

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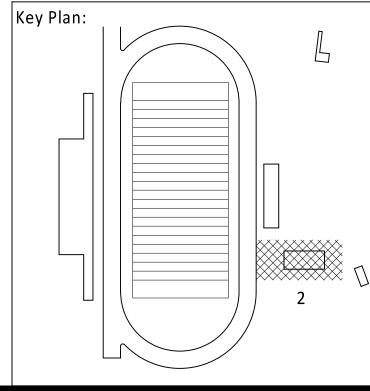
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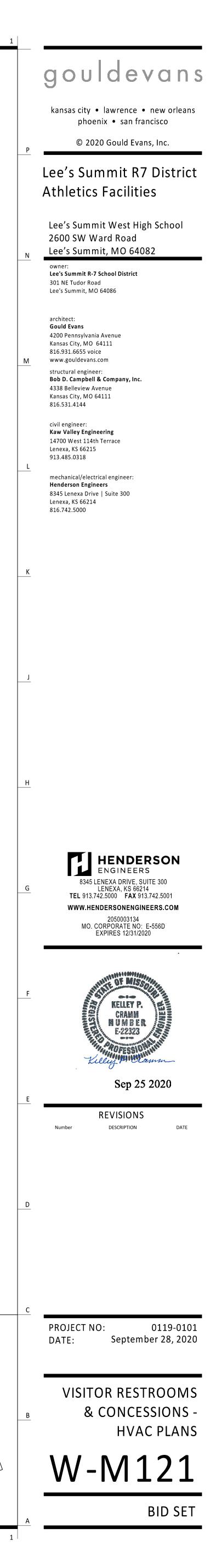
UISITOR RESTROOMS/CONCESSIONS - HVAC PLAN 1/8" = 1'-0"

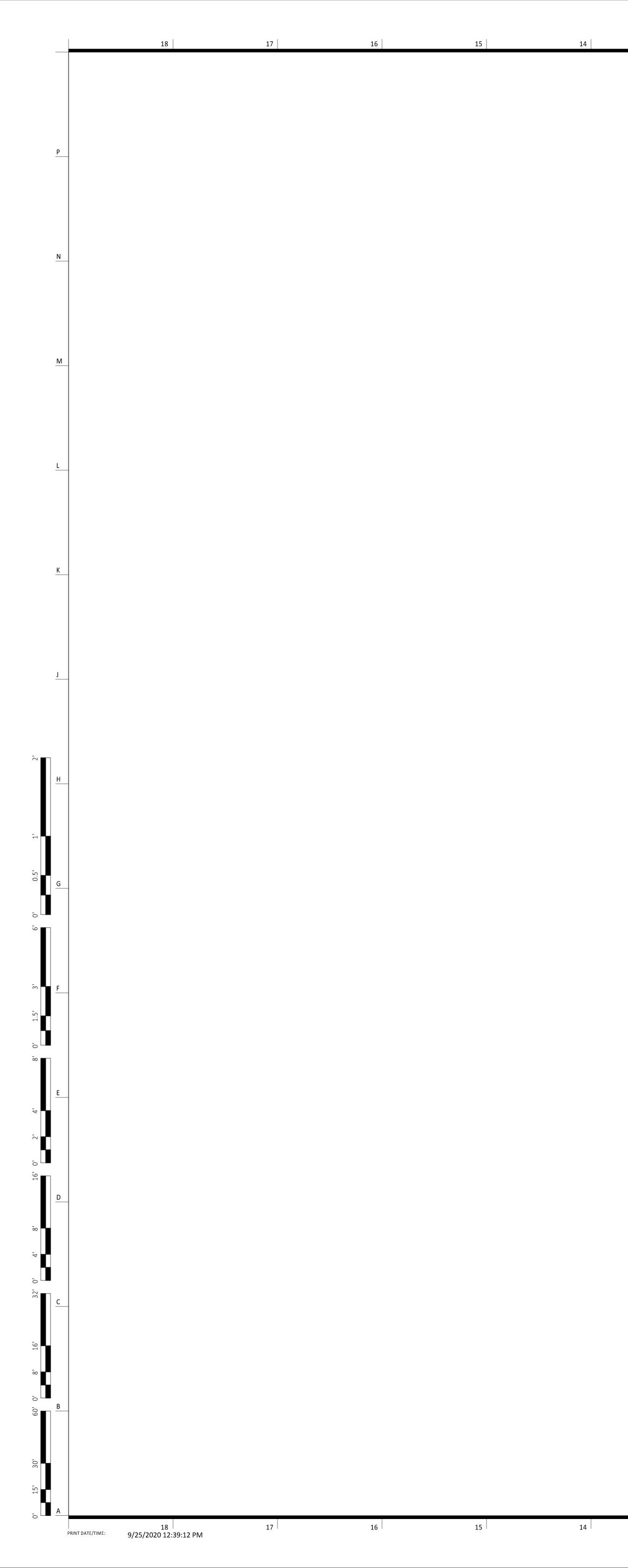
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MECHANICAL PLAN NOTES:

- M4 INSTALL RADIANT HEATER RECESSED IN CEILING. COORDINATE FINAL LOCATION WITH LIGHTING. M5 INSTALL UNIT HEATER SUSPENDED FROM STRUCTURE ACCORDING TO MANUFACTURER REQUIREMENTS AND SPECIFICATIONS.
- M6 INSTALL TRANSFER FAN HIGH ON WALL IN CMU BLOCK VOID.
- M7 INSTALL TRANSFER GRILLE LOW ON WALL AS NOT TO INTERFERE WITH PLUMBING FIXTURES.
- M9 PROVIDE VANDAL-PROOF COVER ON THERMOSTAT.



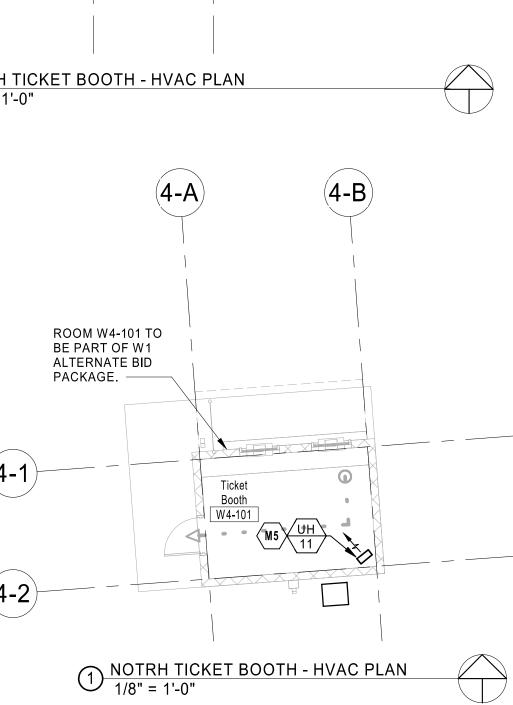




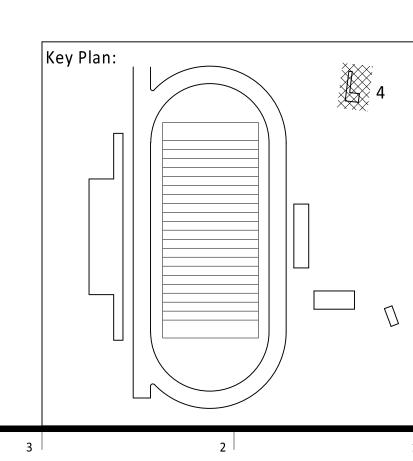
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② SOUTH TIC 1/8" = 1'-0"			
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4-2			

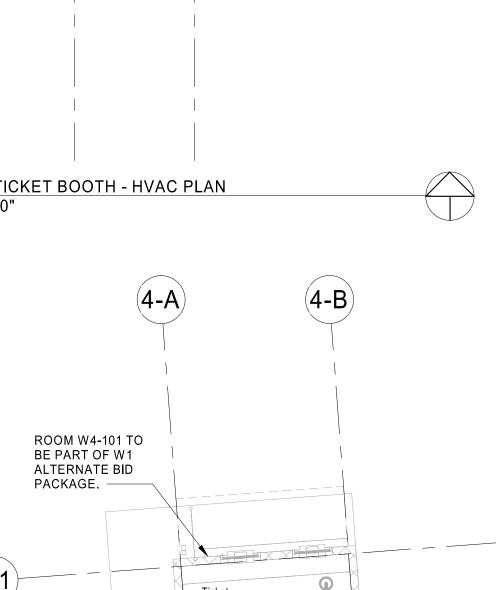
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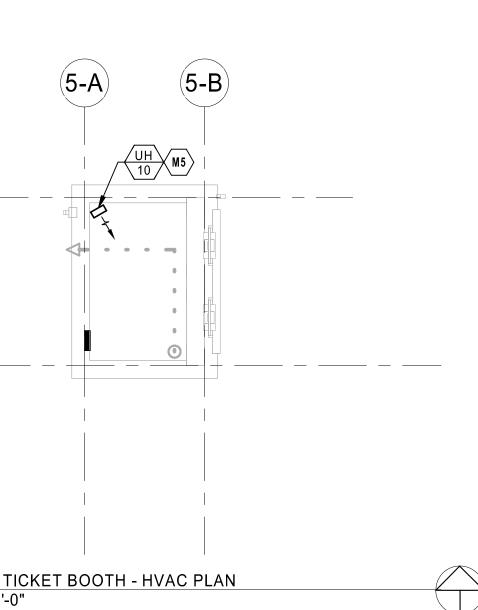
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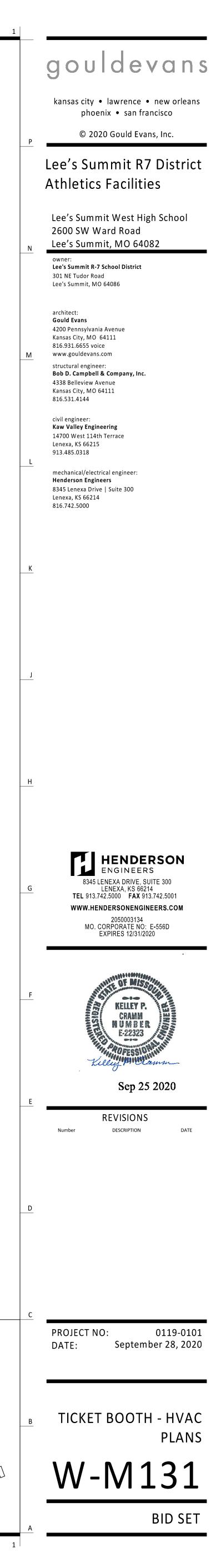


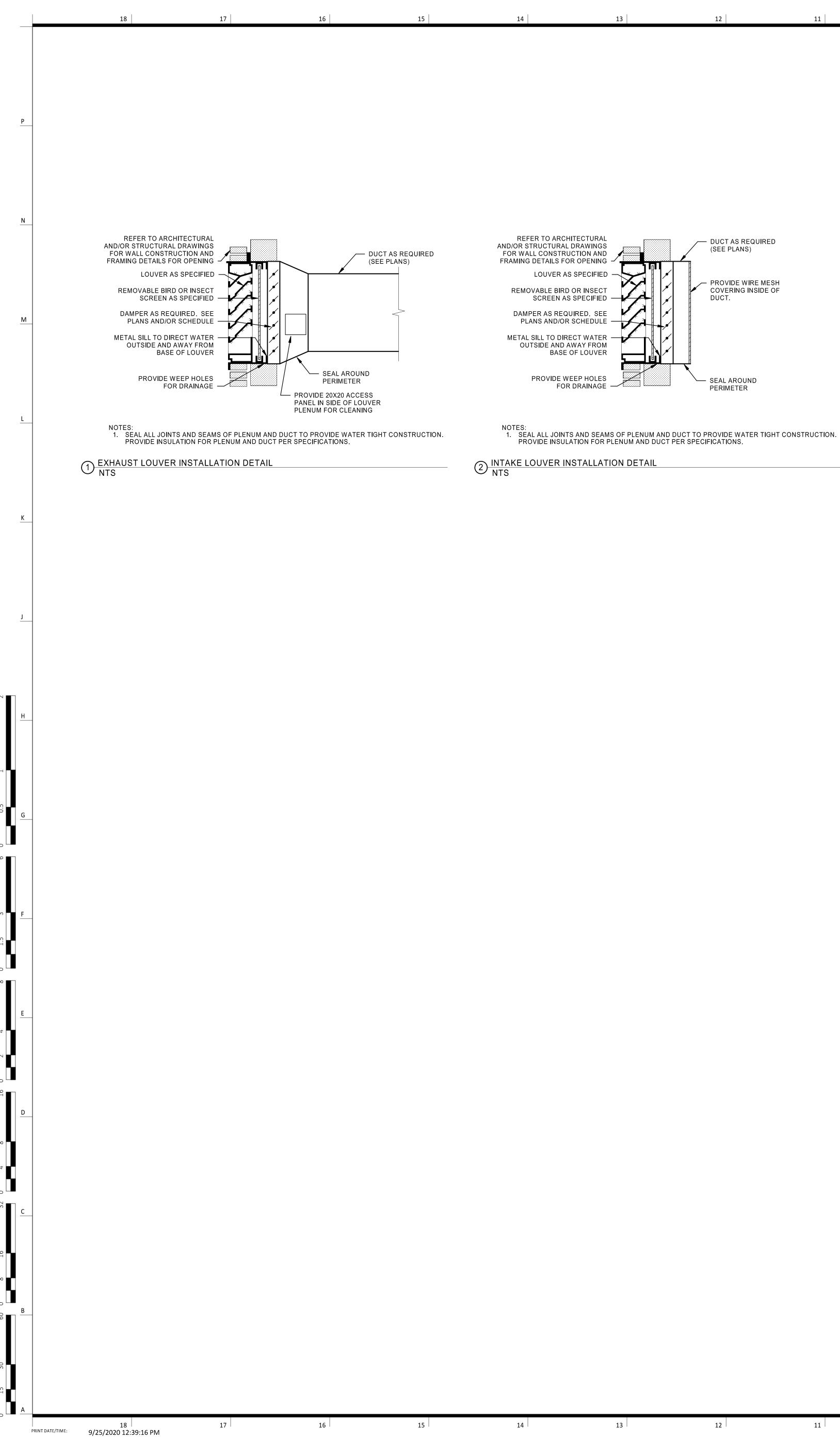














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SUPPORT FROM STRUCTURE ABOVE WITH ALL-THREAD RODS AND VIBRATION ISOLATION.

– CEILING



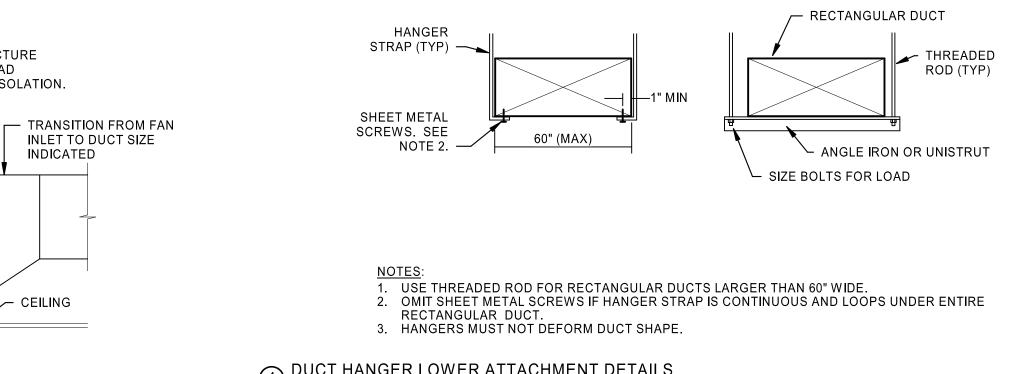
EXHAUST FAN -

FLEX CONNECTOR

TRANSITION FROM FAN

DISCHARGE TO DUCT SIZE INDICATED







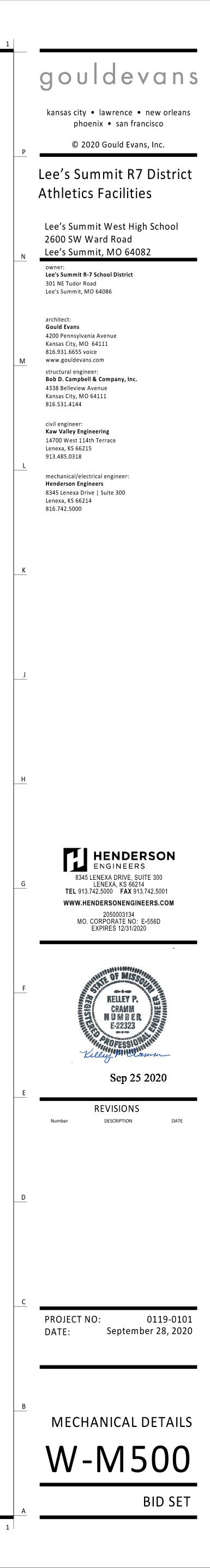
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EF 1 CONCESS EF 2 WOMENS EF 3 MENS RE EF 4 LOCKER TF 1 WOMENS TF 3 MENS RE TF 4 FAMILY R MODEL NUMBERS SH THE EXACT MATERIA NOTES: A. PROVIDE RUID B. PROVIDE WIT C. PROVIDE WIT E. PROVIDE MIT MARK A E.1 CONCE S.4 LOCKE MODEL NUMBERS SH REVIEW THE COMPLI THE MANUFACTURES NOTES: A. PROVIDE MIT E. PROVIDE MIT E. PROVIDE MIT F. INTERLOCK M MARK MANUFACTURES MODEL NUMBERS SH	SIONS EXH RESTROOM EXH STROOM EXH ROOM EXH ROOM EXH ROOM EXH RESTROOM TRAI STROOM TRAI STROOM TRAI STROOM TRAI STROOM TRAI STROOM TRAI STROOM TRAI STROOM TRAI ALL NOT BE CONSIDER LAND ACCESSORIES TO BER IN SHEAR ISOLATI TORY MOUNTED DISCO H MANUFACTURER'S EI H WALL MOUNTED TEM REA SERVED SI SSIONS EX SOOMS E	AN SPEED CONTROLLER F LECTRONICALLY COMMUT IPERATURE SENSOR. BERVICE MANUFACTUF XHAUST GREENHEC XHAUST GREENHEC XHON STRUCTION, COOL XHUNNIL GUPLY HAN XHAUST GREEN XHAUST GREEN XHAUST GREEN XHAUST GREEN XHAUST GREEN XHAUST GREEN XHAUST GREENHEC XHAUST GREENHEC XHAUST GREENHEC XHAUST GREENHEC XHAUST G	INLINE IN	SQ-100-VG 6 SQ-100-VG 7 SQ-100-VG 1 CBF 5 CBF 5 CBF 5 CBF 5 BE ORDERED BY MAN STED ARE THE BASIS F VER SCH WIDTH (IN) LE 24" 24" 24" 24" 24" 24" 24" 24" 24" 24"	700 0.25 0. 700 0.25 0. 700 0.25 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 700 0.20 0. 900 0.20 0. 900 0.20 0. 900 0.20 0. 900 0.20 0. 900 0.0 0.0 900 0.0 0.0 18" 600 0.0 18" 600 0.0 24" 600 0.0 30" 900 0.0 0.0 0.0 0.0 18" 600 0.0 18" 600 0.0 10 BORDER TYF <	25 979 1 25 1063 1 25 979 1 25 1456 1 25 1450 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 25 1050 1 26 1050 1 27 7 1 28 10 1 29 7 1 29 7 1 20 8 0 20 8 0 1 20 8 0 1 20 9 0 1 20 1 1 1 20 1 1 1 20 1 1<	DIRECT 115 SONLY. REVIEW TH 15 SONLY. REVIEW TH 16 700 FPM 30 36 700 FPM 36 700 FPM 36 700 FPM 36 700 FPM 31 500 FPM 31 500 FPM 31 500 FPM 30 PLANS 30 PLANS 30 1 SONLY. REVIEW TH 1	1 NON-FU 0.05 in-wg 0.05 in-wg 0.01 in-wg 0.01 in-wg 0.08 0.08 0.08 0.08 0.08 0.08	SED 45 SED 45 SED 45 SED 17 A,B,C,D <td< th=""><th>A,B,C, A,B,C, A,B,C, A,B,C, A,B,C, B,C,E B,C,E B,C,E B,C,E</th></td<>	A,B,C, A,B,C, A,B,C, A,B,C, A,B,C, B,C,E B,C,E B,C,E B,C,E
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SEQUENCE OF OPERATIONS MISCELLANEOUS EQUIPMENT

EXHAUST FAN (EF-1,2,3,4) OPERATING MODES

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OCCUPIED MODE:

The unit shall be in occupied mode when the room light switch is turned on. <u>UNOCCUPIED MODE:</u> The unit 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-1,2,3,4) OPERATING MODES

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

HEATING MODE: The unit shall be in heating 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. The 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 Heating Mode:

> The unit shall be on. The unit shall remain on unitl space temperature as sensed by the wall mouted thermostat is above space temperature setpoint of 50 F.

ELECTRIC UNIT HEATER (UH-1,2,3,4,5,6,7,8,9,12)

OPERATING MODES STANDBY MODE:

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

The unit 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 the 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 temperature setpoint of 68 F as sensed by the wall mounted thermostat.

ELECTRIC UNIT HEATER (UH-10,11) OPERATING MODES

STANDBY MODE:

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

PACKAGED TERMINAL AIR CONDITIONER (AC-1)

OPERATING MODES STANDBY MODE:

The unit shall be in standby mode when the zone temperature (Z-T) is above space temperature setpoint. <u>COOLING MODE:</u> The unit shall be in cooling mode when the zone temperature (Z-T) falls below 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 Heating 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.

RADIANT HEATER (RH-1,2) OPERATING MODES

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

HEATING MODE: 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.

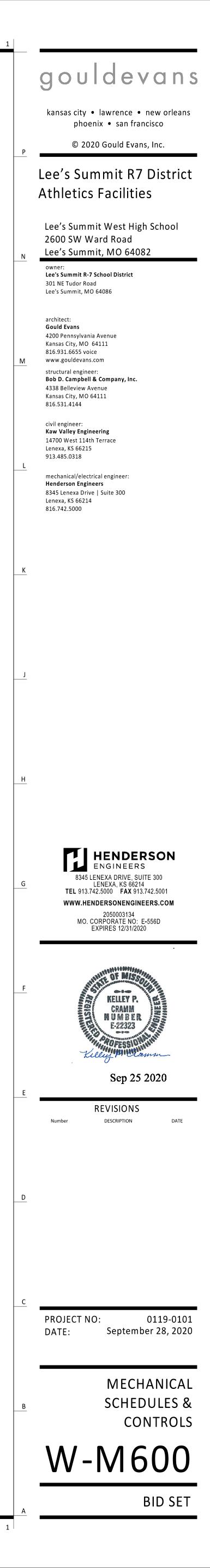
When in Standby Mode: The unit shall remain off. When in Heating Mode:

The unit shall be on.

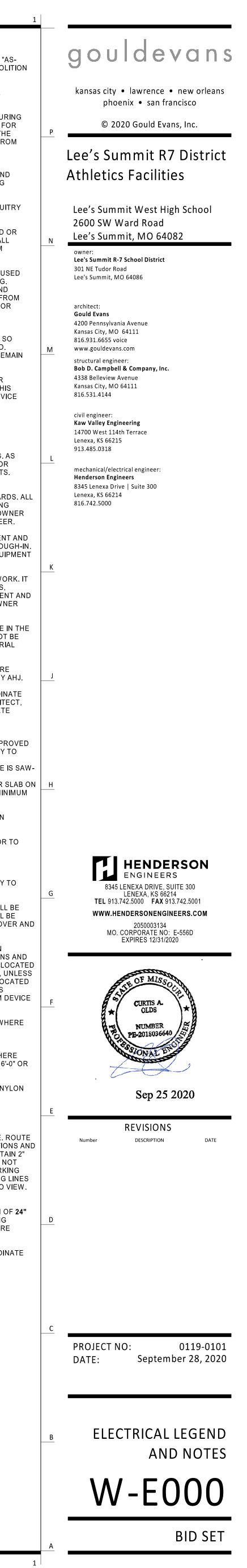
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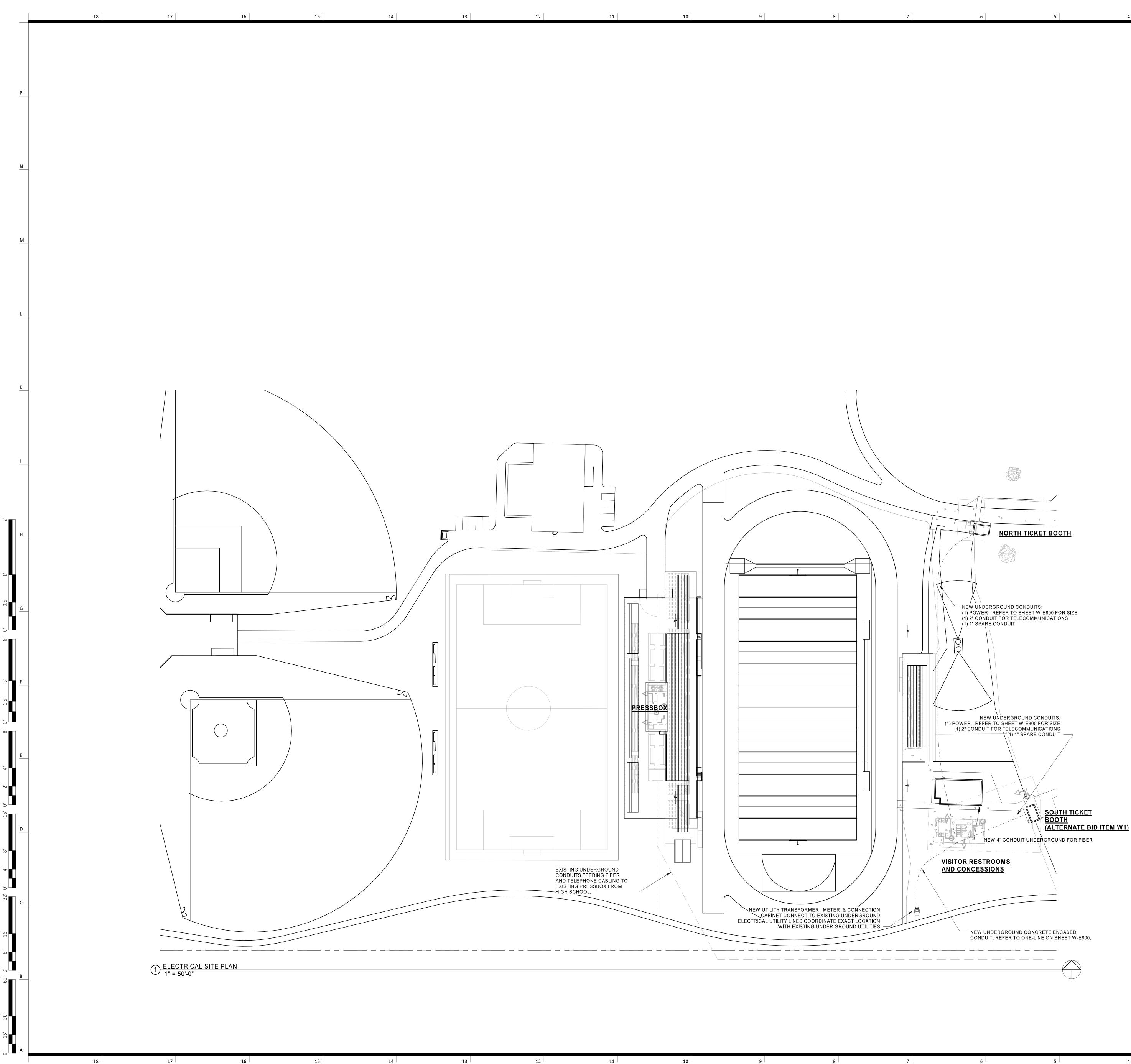
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ELECTRICAL SYMBOLS					ELECTRICAL GENERAL NOTES : 1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "A BUILT" CONDITIONS VERIEX EXISTING CONDITIONS BRIDE TO SUBMITTING FINAL RID, COORDINATE NEW AND DEMOL
THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBRE STANDARD MOUNTING HEIGHTS	VIATIONS ARE USED. ANNOTATION	LIGHTING	BOXES, LIGHTING CONTROL & WIRING DEVICES	V3.00 ELECTRICAL ONE-LINE & RISER DIAGRAM	BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOL WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS. 2. NOTIFY ARCHITECT. ENGINEER AND OWNER. AS APPLICABLE. IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE
AUDIBLE APPLIANCES (CENTERLINE)84"ALARMS48"ALARMS48"ANNUNCIATOR PANELS (DISPLAY)60"CONTROLS (TOP OF DEVICE)48"EXIT SIGNS (WALL MOUNTED)80"FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)60"FIRE ALARM BELL (EXTERIOR) (CENTERLINE)120"FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)60"NTERCOM (AFEA ONLY)60"NTERCOMS (TOP OF DEVICE)48"PULL STATIONS (TOP OF DEVICE)48"PULL STATIONS (TOP OF DEVICE)48"PHOTOCELLS144"RECEPTACLES (EXTERIOR)24"RECEPTACLES (GARAGES)24"RECEPTACLES (POOLS)27"RECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX	 MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT PLUMBING PLAN NOTE CALLOUT ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT TECHNOLOGY PLAN CALLOUT PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES 	A a • • •	SWITCH LETTER DESIGNATIONS AS FOLLOWS: BLANK = SINGLE 2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER \$	WITCH (RATING AS INDICATED) ###A 3P SWITCH (RATING AS INDICATED) ###A 3P DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED) ###AS 3P FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED) ###AS 3P ###AF FRS ###AS 3P COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE ###AS 3P CIRCUIT BREAKER (RATINGS AS INDICATED)	 BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE DUF NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUESTS F ELECTRICAL SHUTDOWNS OF THE OWNER'S EQUIPMENT SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF TH OWNER AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FR THE OWNER. 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 AN APPROVED BY THE OWNER PRIOR TO ANY WORK BEING PERFORMED. MINIMIZE DISTURBANCE TO OTHER BUILDING TENANTS. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: EXISTING ELECTRICAL EQUIPMENT AND CIRCUL MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGED
ECEPTACLES IN EQUIPMENT ROOMS44"EMOTE INDICATING LIGHT (EQUIPMENT ROOMS)48"EMOTE INDICATING LIGHT (FINISHED AREAS)CEILINGAFETY SWITCHES (TOP OF DEVICE)48"TARTERS (TOP OF DEVICE)48"WITCHES (TOP OF DEVICE)48"ELEPHONE, DATA OUTLETSSAME AS ADJACENT DEVICE, UNOELEPHONE TERMINAL BOARD (BOTTOM)6"ELEVISION OUTLETSREFER TO ARCH DRAWINGSISIBLE APPLIANCES (CENTERLINE)84"ASTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO INHE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, ORLSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO	1 EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED) CU MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE) Image: Connection point of new work to existing Image: Connection point of new work to existing Image: Connection point of new work to existing Image: Connection point of new work to exist point Image: Connection point of new work to exist point Image: Connection point point of new work to exist point Image: Connection point point point point Image: Connection point point point Image: Connection point point Image: Connection point point Image: Connection point point Image: Connection point	Image: Night Light/Emergency Light Fixture with Emergency SourceImage: Night Light/Emergency Light Fixture with Dual Ballasts Circuited Separately (Shading implies Emergency Light Fixture)Image: Image: Night Fixture with Dual Ballasts Circuited Separately (Shading implies Emergency Light Fixture)Image: Image: Image: Night Fixture with Dual Ballasts Circuited Separately (Shading implies Emergency Light Fixture)Image: Image: Image: Image: Image: Night Fixture with Dual Ballasts Circuited Separately (Shading implies Emergency Light Fixture)Image: Image: Imag	ALC AUTOMATIC LOAD CONTROL RELAY BTS BRANCH CIRCUIT TRANSFER SWITCH (#) # # # CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE) CORNER 90 DEGREE SENSING ONE-DIRECTION SENSING, CEILING/WALL MOUNT CEILING MOUNT, TWO DIRECTION SENSING CEILING MOUNT, FOUR DIRECTION SENSING CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF	Image: Size COMBINATION CIRCUIT BREAKER/STARTER AND STARTER Image: Size PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES) Image: Size Isolated power panelboard w/ integral transformer (Refer to Schedules) Image: Tx## TRANSFORMER (REFER TO SCHEDULES) Image: Tx## TRANSFORMER (TYPE AND RATINGS AS INDICATED)	 RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE AL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM 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 REU ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIRING NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE ANI REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING, (AS DATED FITHE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS FOR CIRCUIT BREAKERS, GENERATOR/UPS SYSTEMS AND LIGHT FIXTURES, 30 YEARS FOR TRANSFORMERS AND PANELBOARDS, 40 YEARS FOR SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT. 8. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: ELECTRICAL EQUIPMENT SHALL BE LOCATED STHAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO RE
BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS. ABBREVIATIONS F AMPERE FUSE SIZE FC ABOVE FINISHED CEILING MFR MANUFACTURER	Image: 1 bit of the section cut designation Image: 1 bit of the section cut designation <t< td=""><td> EXTERIOR LIT BOLLARD LIGHT EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED </td><td>C# CONTACTOR (SIZE, COLL VOLTAGE AND NOMBER OF POLES AS INDICATED) CL## TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE) D# DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE) IC LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT P# POWER PACK (# INDICATES TYPE PER SCHEDULE) P# POWER PACK (# INDICATES TYPE PER SCHEDULE) PS# PHOTOELECTRIC SWITCH</td><td>TX## SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED) ATS# Image: Comparison of the state of the stat</td><td> BY THE AHJ, ENGINEER AND OWNER. 9. FOR FURNISHED EQUIPMENT AND APPLIANCES: CONFIRM THE ELECTRICAL REQUIREMENTS WITH MANUFACTURER INFORMATION AND OTHER TRADES PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY. TH INCLUDES BUT IS NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, CIRCUIT BREAKER, FUSE, WIRING DEV AND TERMINATION. WHERE APPLICABLE, REFER TO VENDOR INFORMATION, SUCH AS FOOD SERVICE AND REFRIGERATION DRAWINGS, FOR DEVICE TYPE AND LOCATION. ELECTRICAL SUPPLEMENTAL SPECIFICATIONS: 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR </td></t<>	 EXTERIOR LIT BOLLARD LIGHT EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED 	C# CONTACTOR (SIZE, COLL VOLTAGE AND NOMBER OF POLES AS INDICATED) CL## TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE) D# DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE) IC LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT P# POWER PACK (# INDICATES TYPE PER SCHEDULE) P# POWER PACK (# INDICATES TYPE PER SCHEDULE) PS# PHOTOELECTRIC SWITCH	TX## SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED) ATS# Image: Comparison of the state of the stat	 BY THE AHJ, ENGINEER AND OWNER. 9. FOR FURNISHED EQUIPMENT AND APPLIANCES: CONFIRM THE ELECTRICAL REQUIREMENTS WITH MANUFACTURER INFORMATION AND OTHER TRADES PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY. TH INCLUDES BUT IS NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, CIRCUIT BREAKER, FUSE, WIRING DEV AND TERMINATION. WHERE APPLICABLE, REFER TO VENDOR INFORMATION, SUCH AS FOOD SERVICE AND REFRIGERATION DRAWINGS, FOR DEVICE TYPE AND LOCATION. ELECTRICAL SUPPLEMENTAL SPECIFICATIONS: 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR
IC AMPERE INTERRUPTING ADDATES AMPERE SWITCH SIZE NF NON-FUSED S AMPERE TRIP SETTING NL NIGHT LIGHT (24HR ON) TS AUTOMATIC TRANSFER SWITCH VALUE ADDATESTING LABORATORY (CSA, ETL, NSF, UL) AS BUILDING AUTOMATION SYSTEM OS OCCUPANCY SENSOR KR BREAKER P POLE CONDUIT PART PARTIAL CIRCUIT AT CATEGORY PH/Ø PHASE ATV CABLE TELEVISION SYSTEM PNL PANEL CTV CLOSED CIRCUIT TELEVISION PNLBD PANELBOARD D CANDELA PT POTENTIAL TRANSFORMER QDE APPLICABLE CODE QTY QUANTITY ADOPTED BY JURISDICTION R/REL RELOCATE T CURRENT TRANSFORMER RCPT RECEPTACLE RCENTER RLA RUNNING LOAD AMPS VD CUMULATIVE VOLTAGE DROP RTU ROOFTOP UNIT /DEMO DEMOLITION SCEN STEM RTU ROOFTOP UNIT	CIRCUIT CONTINUATION OR PARTIAL CIRCUIT CONDUIT CONCEALED CONDUIT CONCEALED (EMERGENCY) CONDUIT INJUNDER FLOOR/GROUND CONSTRUCTION EXPOSED CONDUIT EXPOSED CONDUIT CONDUIT (EMERGENCY) FLEXIBLE CONDUIT LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT) CONDUIT TURNING DOWN CONDUIT TURNING DOWN CONDUIT TURNING UP CONNECTION POINT OR EQUIPMENT TERMINATION EQUIPMENT TERMINATION CONDUCTOR TICK MARK LEGEND WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN: SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL) NEUTRAL (GROUNDED) CONDUCTOR S(SHOWN LEADING NEUTRAL) NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER) BRANCH CIRCUIT CONDUCTOR TABLE WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN: <u>\$UNTERED HOT (PHASE) CONDUCTOR IN CONDUIT</u> (GREEN INSULATION OR BARE) ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER) BRANCH CIRCUIT CONDUCTOR TABLE WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN: <u>\$UNTERL</u> <u># OF POLES HOT (PHASEY' (GROUNDED): "GROUNDING"''</u> <u>1P (1) (1) UNO (1)</u> <u>2P (2) (1) UNO (1)</u> <u>2P (3) (1) UNO (1)</u> PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (FWITCHED, UNSYNTCHEDEME, TC; AS MIDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM. " REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS, DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO. " PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED. REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTOL DAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.	REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION POWER EQUIPMENT & DEVICES ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT) ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED SYNTCH-BOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD ELECTRICAL DISTRIBUTION PANELBOARD TRANSFORMER DISCONNECT SWITCH - "200/3/150/3R" DENOTES 200/3/150/3R AMPERES/POLE/FUSE/NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES 30/3/15/1/3R AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB - CIRCUIT BREAKER (200/3/150/3/20/3/2/2/2/3/2/2/2/3/2/2/2/3/2/2/2/3/2	Reference ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE) TSE TIME SWITCH ① SIMPLEX RECEPTACLE - NEMA 5-20R, UNO ① DUPLEX RECEPTACLE - NEMA TYPE AS NOTED ④ SPECIAL RECEPTACLE - NEMA TYPE AS NOTED ④ TWIST-LOCK TYPE RECEPTACLE* ● RECEPTACLE NSTALLED ABOVE COUNTER OR ● RECEPTACLE INSTALLED N FLOOR* ● RECEPTACLE INSTALLED N HOOP CORD* WE RECEPTACLE INST	INDICATED)	 ADDITIONAL RECURRENCES THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENT NOTE: A CHIEFE AND RECHERCHED AND RECORDER TO SUBMITTING BLD. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE NUMERY STAINABLE CONFORMED TESTIN LABORATORY (INFILL SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUMENT STAIL BER FROM THE BLD STATE THE SETTING TO BE WANTAH ACCORDED ATOMINAL RECORDERED TESTIN LABORATORY (INFILL SUCH AS UL OR ETL. THE FINAL ELECTRICAL DESTING CONDITIONES AND OTHER FACILITY OCCUMENT SO TO ALL USET STATUDES, ELECTRICAL DEDECTICAL DEVICES WITH ARCHTECTING DENDITIONES AND OTHER AND STALL BE CHECKLORAL DEVICES WITH ARCHTECTING DENDITIONES AND THAL CONNECTIONS TO ELECTRICAL EDUPAGES ELECTRICAL DEVICES WITH ARCHTECTING CONDITIONES AND THAL CONNECTIONS TO ELECTRICAL EDUPAGES ELECTRICAL DEVICES WITH ARCHTECTING CONDITIONES AND THAL CONNECTIONS TO ELECTRICAL EDUPAGES ELECTRICAL DEVICES WITH ARCHTECTING CONDITIONES AND TRALL CONTROLORS TO ELECTRICAL EDUPAGES ELECTRICAL DEVICES WITH ARCHTECTING CONDITIONES AND TRALL CONTROLORS TO ELECTRICAL EDUPAGES ELECTRICAL EDUPAGES ENTRY INCOMES AND CONTRACTOR SHALL COORDWATE THE FINAL LOCATION OF EDUPAGE OFFER TO THE ADDITION TO THE OWNER AND CONTRACTOR SHALL COORDWATE THE FINAL LOCATION OF EDUPAGE OFFER TO THE ADDITION THE RECORD THE ADDITION THE EDUPAGE OFFER TO THE ADDITION THE EDUPAGE OFFER TO THE ADDITION THE EDUPAGE OFFER TO THE ADDITION THE CONTRACTOR SHALL DOORDWATE THE FINAL LOCATION OF EDUPAGE OFFER TO THE ADDITION THE ADDITION THE CONTRACTOR SHALL CONTRACTOR SHALL CONTRACTOR SHALL DOORDWATE THE FINAL LOCATION OF EDUPAGE OFFER TO THE ADDITION THE CONTRACTOR SHALL WORK TO CONFORM TO THE ADDITION THE CONTRACTOR SHALL BOORDWATE THE CONTRACTOR SHALL BOORDWATE THE CONTRACTOR SHALL DOORDWATE THE ADDITION THE ADDIT
WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD DRDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, EXISTING	SIGNALING SIGNALING BELL B SIGNALING BUZZER T LV TRANSFORMER		 * SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION. 		 BUSHING. 18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION. 19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRAT EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAIN MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. DO ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES, HVAC DIFFUSERS, OR EQUIPMENT WOR CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDIN AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/ LEVEL WHERE EXPOSED TO COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
 SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS: PROVIDE NECESSARY BOXES, CONDUIT AND MAKE FINAL CONNECTION TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMEN THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERM HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL FOR ALL WIRING, SIMERS, AND SIMILAR CONTROLS, PROVID FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK W NOT PROVIDED BY OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO AL MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS WH APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIO INSTALLATION. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERE TILE, UNO. PROVIDE BOX AND [3/4"] CONDUIT FROM EACH THERMOSTAT LOCATION MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICAB COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANIC/ CONTRACTOR AND OWNER PRIOR TO ROUGH-IN. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM L WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 96 MINIMUM, PROVIDE [3/4"] CONDUIT, UNLESS NOTED OTHERWISE. COOR REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE A SPECIFICATIONS. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE), WITH SINGLE-GAR RING AND [1"] CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEIL UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOXE CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED DATA BOXE CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED NTHE DATA BOXE CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DR COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SI OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. 	DATIONS. (NSTATS, (IRING, DUCT)AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE 100' INTERVALS OF CONTINUOUS RUNS.(IRING, DUCT) IE CONDUIT9. MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUI DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLEF DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER AND RELATED WIRING IS TO BE PERFORMED BY OTHERS CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOX AND RATED FLOORS/WALLS/CEILINGS TO ACCESSIBLE UOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITI FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOW COORDINATE ELECTRICAL REQUIREMENTS AND LOCATI AND OWNER.11 O LE). AL/CONTROLS11. ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CONDU WHERE APPLICABLE.12 LOW VOLTAGE YAFF. AT A DINATE LARM13. CABLES SHALL BE ROUTED THROUGH THE BUILDING CA UNLESS NOTED OTHERWISE. EXPOSED CABLEN ON IS IN CABLE TRAY).0UTLET NG PLASTER ING PLASTER S WITHIN AWINGS.13. CABLES SHALL BE ROUTED THROUGH THE BUILDING CA UNLESS NOTED OTHERWISE. EXPOSED CABLING SHALL EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMI WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OV REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAGE OR NEAREST ACCESSIBLE CEILING SPACE.14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING E FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATI CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING	DUIT SHALL BE INSTALLED WITH E CHANGE IN DIRECTION AND ATIS NOT AN EXHAUSTIVE LIST. PROJECT CODES, STANDARDS AND LOCAL REQU FOR ADDITIONAL REQUIREMENTS.T IS 6 TIMES THE INSIDE R AND 10 TIMES THE INSIDE ER, UNLESS NOTED OTHERWISE.ELECTRICAL CODE: 2017 NATIONAL EL BUILDING CODE: 2015 INTERNATIONAL ENERGY CODE: NOT ADOPTEDT, SOUND SYSTEM, SECURITY S UNDER A SEPARATE ES AND CONDUIT IN FINISHED OCATIONS FOR ALL LOW RY (120V AND HIGHER) TO OWNER IN TRANSFORMERS AS REQUIRED. ONS WITH SYSTEM INSTALLERCOMMISSIONING / FUNCTION, CONTRACTOR'S BID SHALL INCLUDE P RELATED TO THE CODE REQUIRED BU A COMMISSIONING PLAN, FUNCTIONAL REPORTS AND OWNER TRAINING, THIS 3RD PARTY REGISTERED DESIGN PRO TO THE LATEST ADOPTED EDITION OF INFORMATION. CONTRACTOR SHALL O TO THE LATEST ADOPTED EDITION OF INFORMATION. CONTRACTOR SHALL O CONSTRUCTION DOCUMENTS, CODE A ONSTRUCTION DOCUMENTS, CODE A ONSTRUCTION DOCUMENTS, CODE A DISTRUCTION DOCUMENTS,	PLIANCE WITH THE FOLLOWING CODES. THIS T SHALL COMPLY WITH ALL APPLICABLE UIREMENTS. REFER TO THE SPECIFICATIONS -ECTRICAL CODE, (NFPA 70) - BUILDING CODE - BUILDING CODE PROVISIONS TO PROVIDE ALL SERVICES VILDING SYSTEMS COMMISSIONING INCLUDING - TESTING, AND RELATED DOCUMENTATION, S INCLUDES RETAINING THE SERVICES OF A OFESSIONAL OR APPROVED AGENCY. REFER THE APPLICABLE ENERGY CODE FOR MORE COMPLETE ALL RELATED COMMISSIONING		 COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM BELOW BOTTOM OF SLAB/PAVING/GRADE UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLIN ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO PROTECT THE ELECTRICAL CIRCUITRY FROM DAMAGE DUE TO FUTUI WORK. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. COORD LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.





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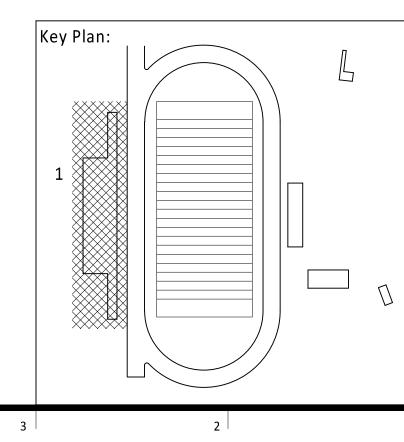
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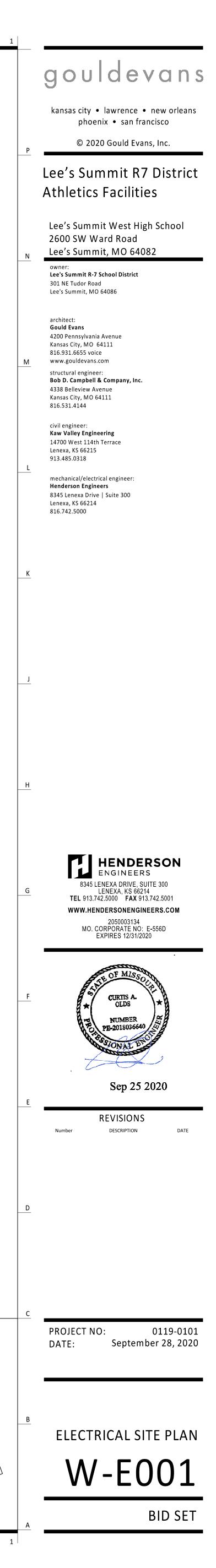
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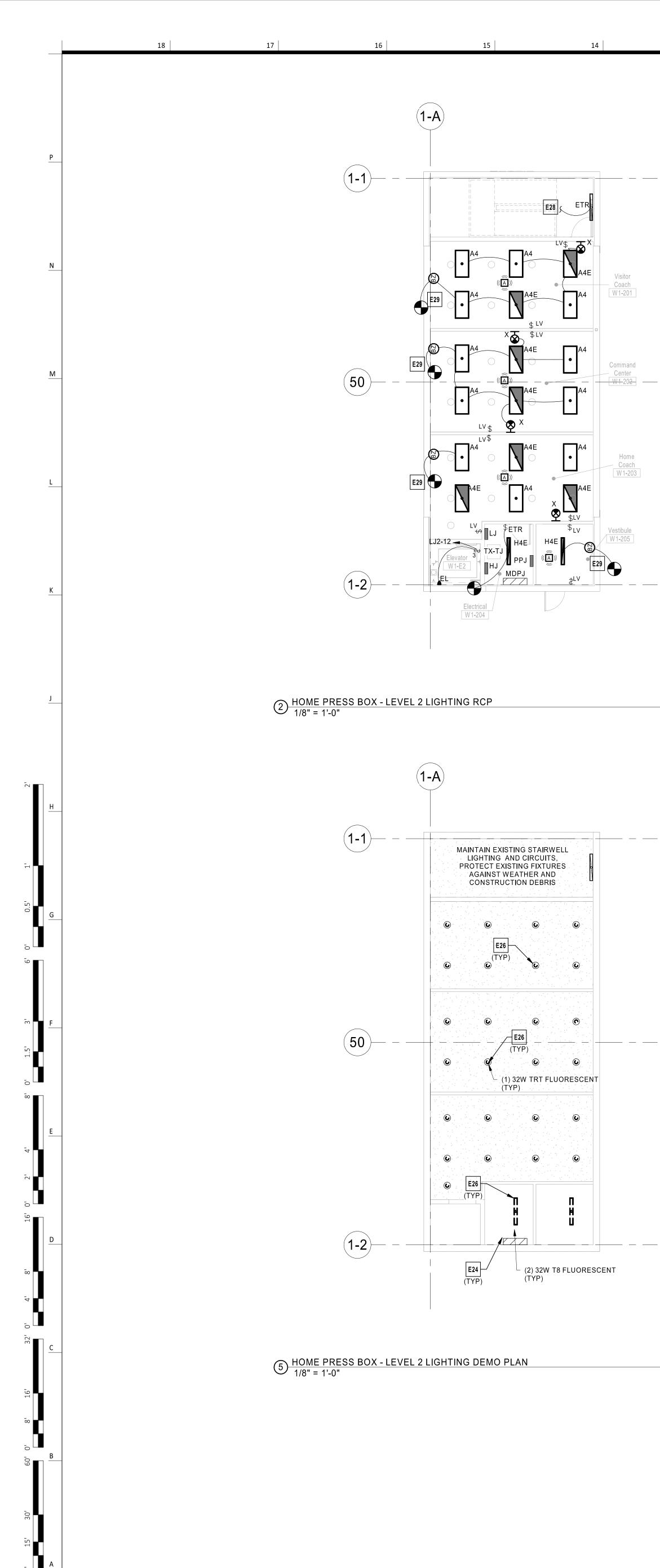
SITE ELECTRICAL GENERAL NOTES:

- 1. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
- 2. COORDINATE ALL SITE ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER INFORMATION AND OTHER TRADES AND ADJUST ELECTRICAL PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.
- 3. SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
- 4. CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
- 5. MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE.
- 6. PROVIDE SPLICE AND PULL BOXES FOR SITE LIGHTING AND SITE ELECTRICAL POWER TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICABLE; (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS; CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM

NOMINAL SIZE OF 12"X12"X12", SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.







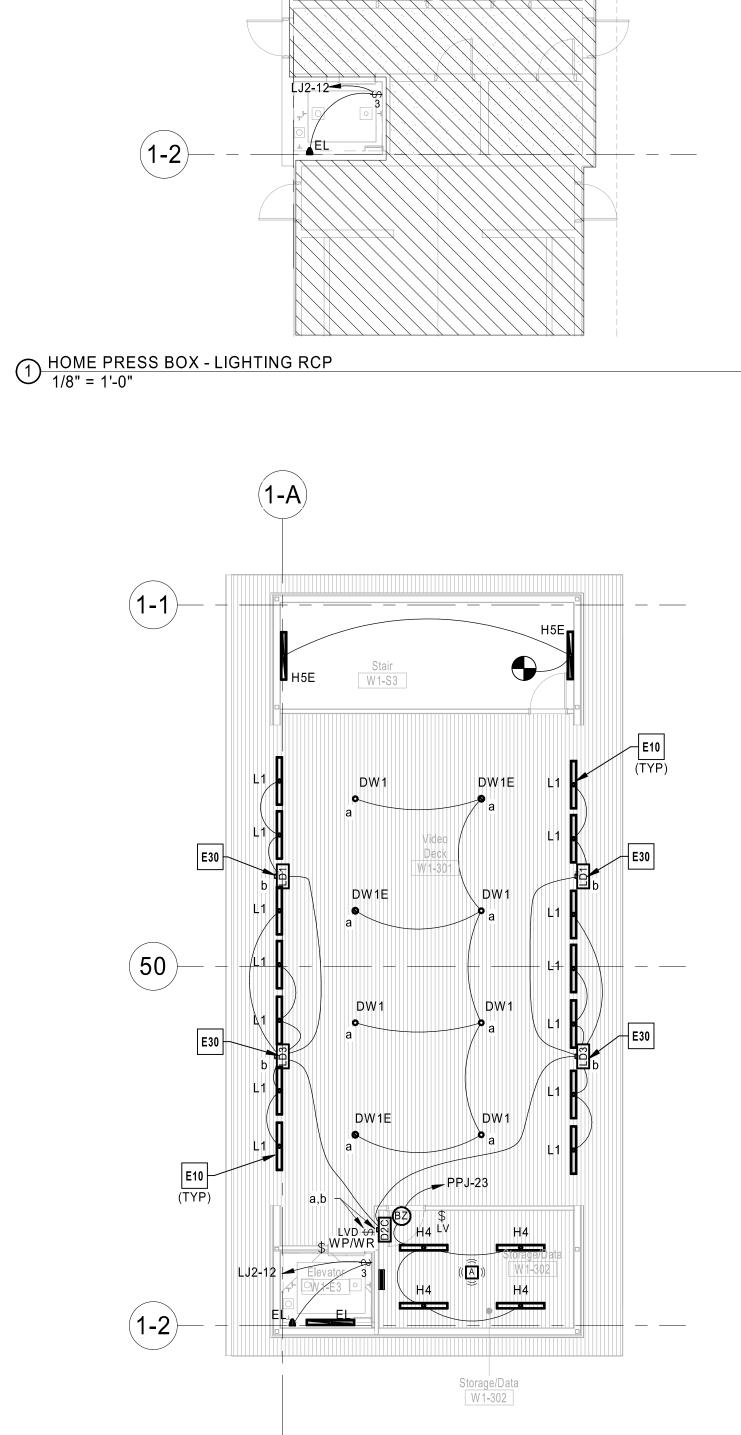
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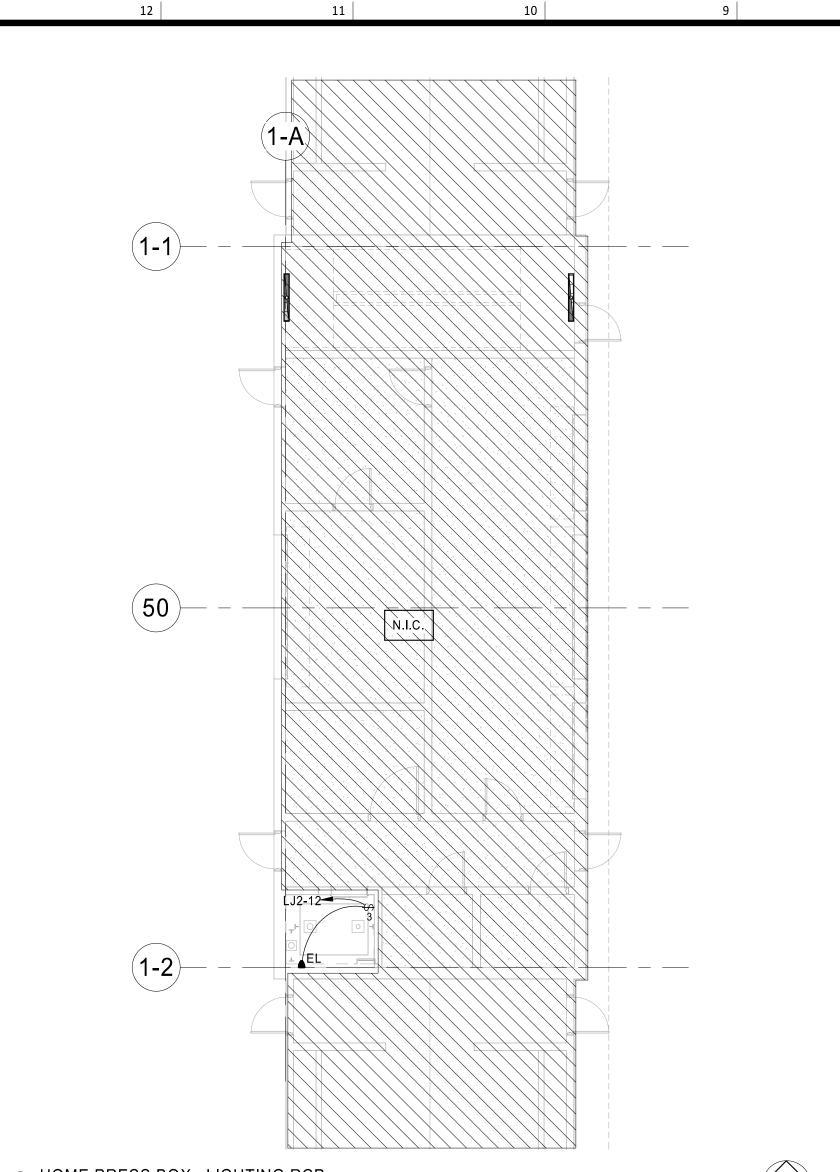
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HOME PRESS BOX - LEVEL 3 LIGHTING RCP 1/8" = 1'-0"







LIGHTING SUPPLEMENTAL SPECIFICATIONS:

- 1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
- 2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
- 3. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.
- 4. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
- 5. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
- 6. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING GENERAL NOTES:

- 1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
- 2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
- 3. SUSPEND BACK OF HOUSE, RECEIVING AND STOCKROOM AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE DURING STOCKING, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW REFRIGERATION PIPING, DUCTWORK AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
- 4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
- 5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

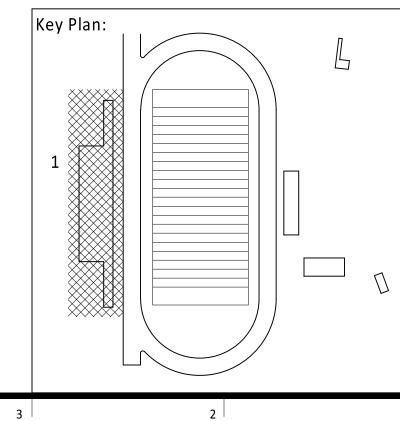
H5E FIXTURES ARE CONTROLLED BY INTEGRAL OCCUPANCY

SENSOR AND EXISTING STAIREWELL LIGHTING CONTROLS.

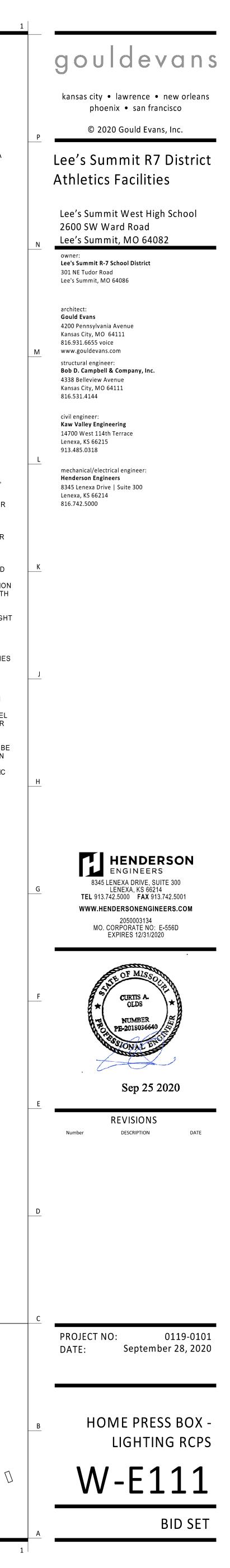
ELECTRICAL LIGHTING LOAD NOTE:

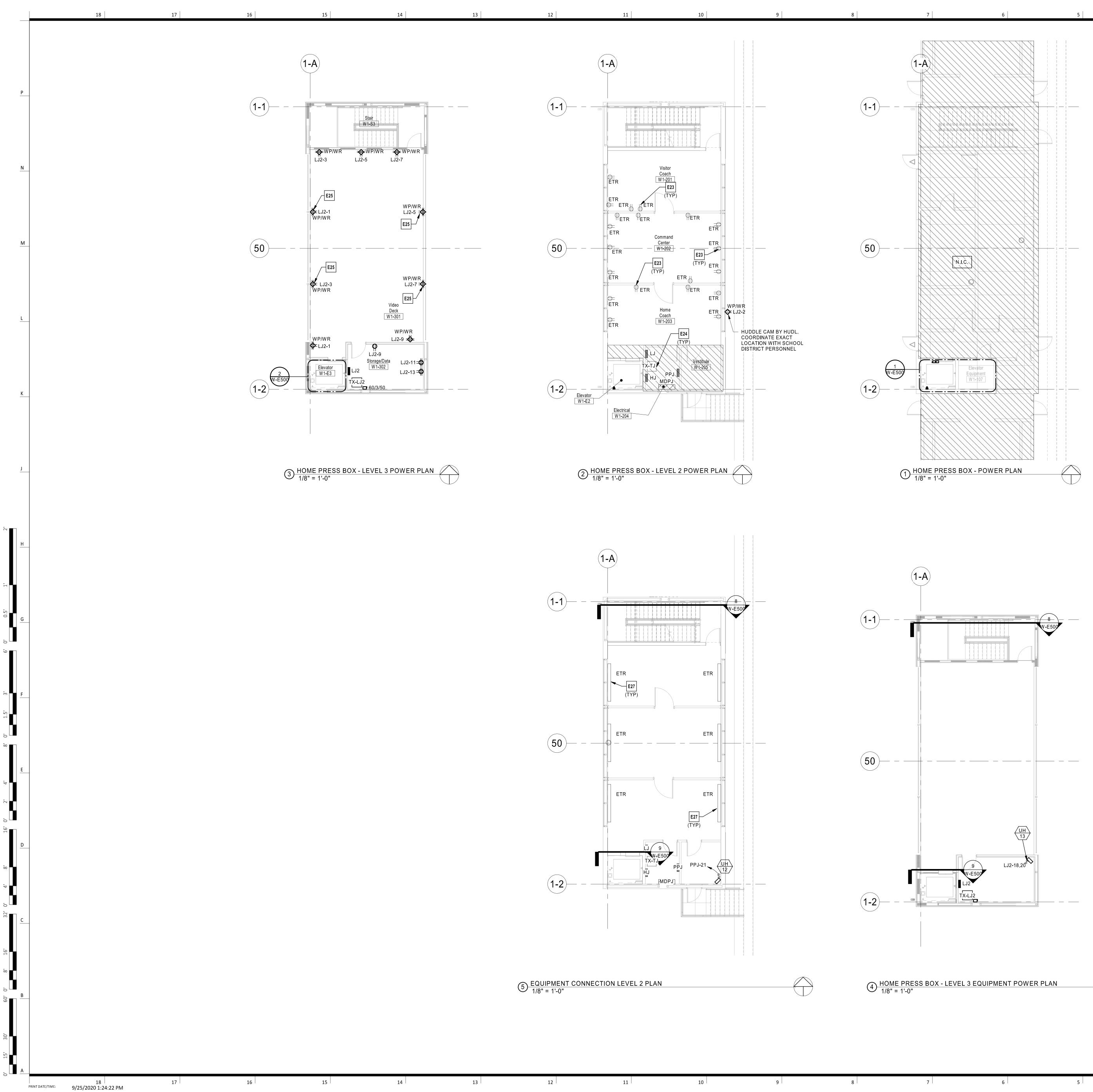
LEVEL 2 LIGHTING CIRCUIT LOAD REMOVED: 1056VA LEVEL 2 LIGHTING CIRCUIT LOAD ADDED: 576VA OVERALL LIGHTING LOAD REDUCED.

- **ELECTRICAL PLAN NOTES:**
- E10 MOUNT TAPE LIGHT TO THE FACE OF THE STRUCTURAL BEAM. MOUNT AS LOW ON BEAM AS POSSIBLE. FIXTURE INTENDED TO GRAZE THE ROOF. COORDINATE EXACT LOCATION WITH STRUCTURAL MEMBERS.
- E24 ROOF IS BEING REMOVED: CONTRACTOR TO PROTECT EXISTING ELECTRICAL PANELS TRANSFORMERS AND EQUIPMENT FROM CONSTRUCTION DEBRIS AND WEATHER DURING CONSTRUCTION. RE-WORK EXISTING CONDUITS AND CONDUCTORS FOR EQUIPMENT AS REQUIRED TO MAINTAIN EXISTING ELECTRICAL SYSTEM AND BRANCH CIRCUIT CONNECTIONS.
- E26 EXISTING LEVEL 2 LIGHT FIXTURES TO BE DEMOED AND CIRCUIT TO BE REUSED IN PROJECT SCOPE FOR NEW LIGHT FIXTURES.
- E28 CONNECT EXISTING STAIRWELL CIRCUIT AND LIGHTING CONTROLS TO NEW FIXTURES ON LEVEL ABOVE. E29 NEW LIGHTING LEVEL 2 TO BE INSTALLED IN DROP CEILING. COORDINATE EXACT FIXTURE LAYOUT WITH EXISTING CONDITIONS AND NEW DROP CEILING. CONNECT NEW LIGHT FIXTURES AND EXIT SIGNS TO EXISTING LEVEL 2 LIGHTING CIRCUIT. REWORK AND EXTEND EXISTING CONDUITS AND
- CONDUCTORS TO PROVIDE LIGHTING CONTROLS AS SHOWN E30 24V LED TAPE LIGHT TYPE 'L1' TO BE FED FROM NEMA-3R 0-10V DIMMING (1) AND (3) OUTPUT 277/24V 96W LED DRIVERS. REFER TO LIGHT FIXTURE SCHEDULE FOR DRIVER SPECIFICATIONS. COORDINATE PLACEMENT AND NUMBER OF DRIVERS WITH FIXTURE LENGTHS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



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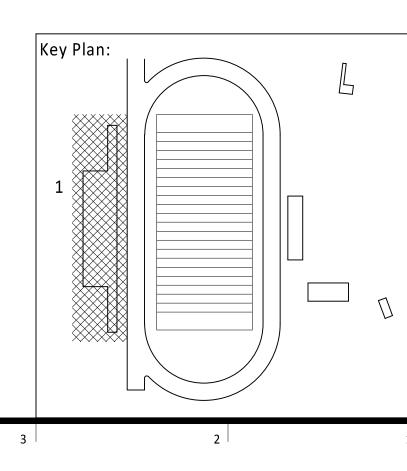




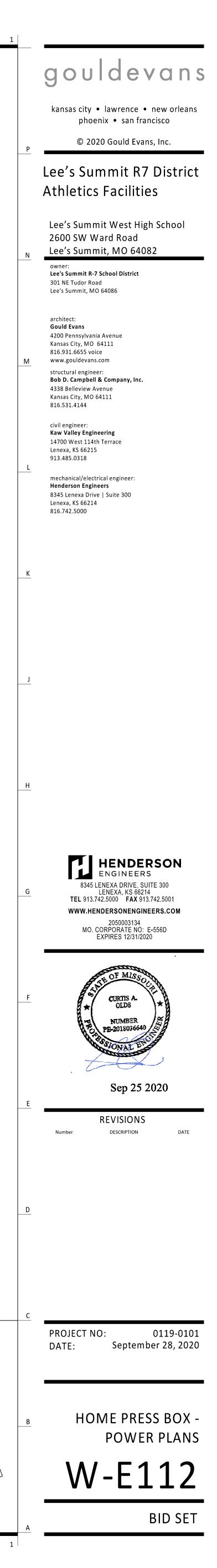
ELECTRICAL GENERAL NOTES:

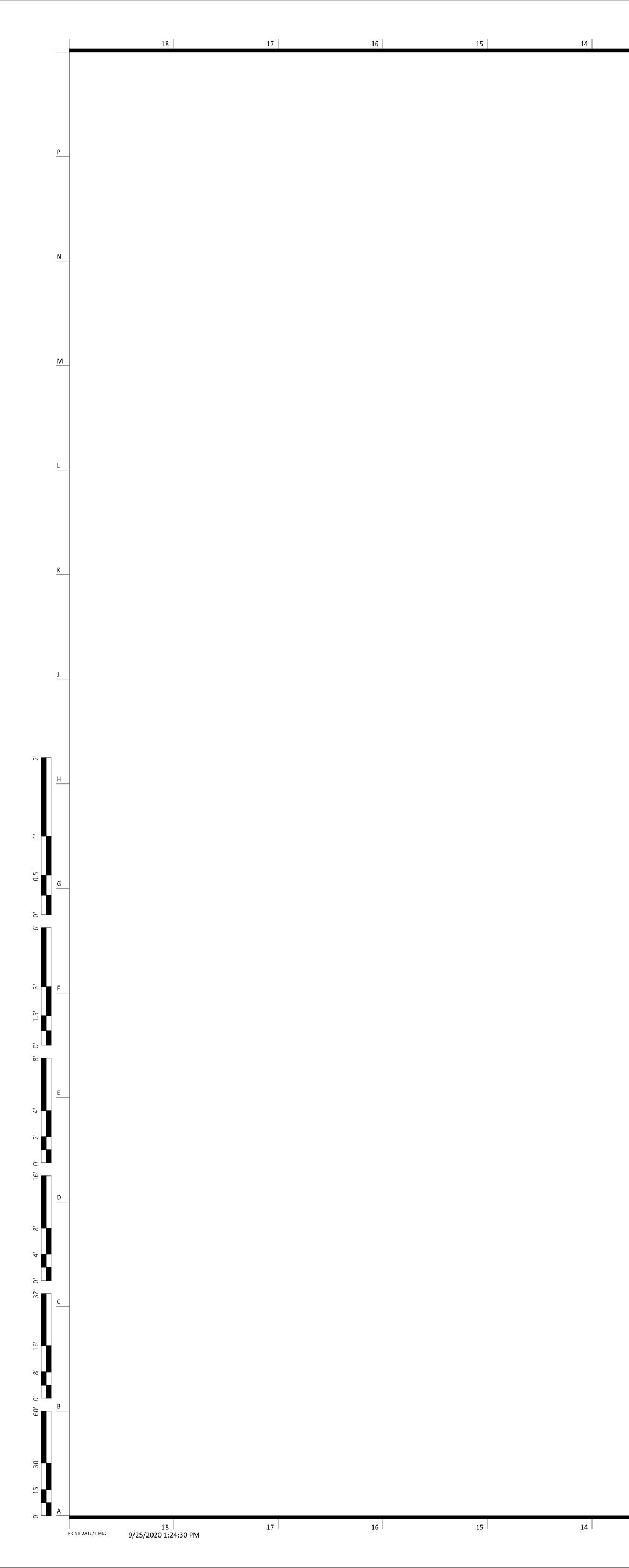
REFER TO SHEET W-E500 FOR ELEVATOR AND ELECTRICAL EQUIPMENT PLANS.

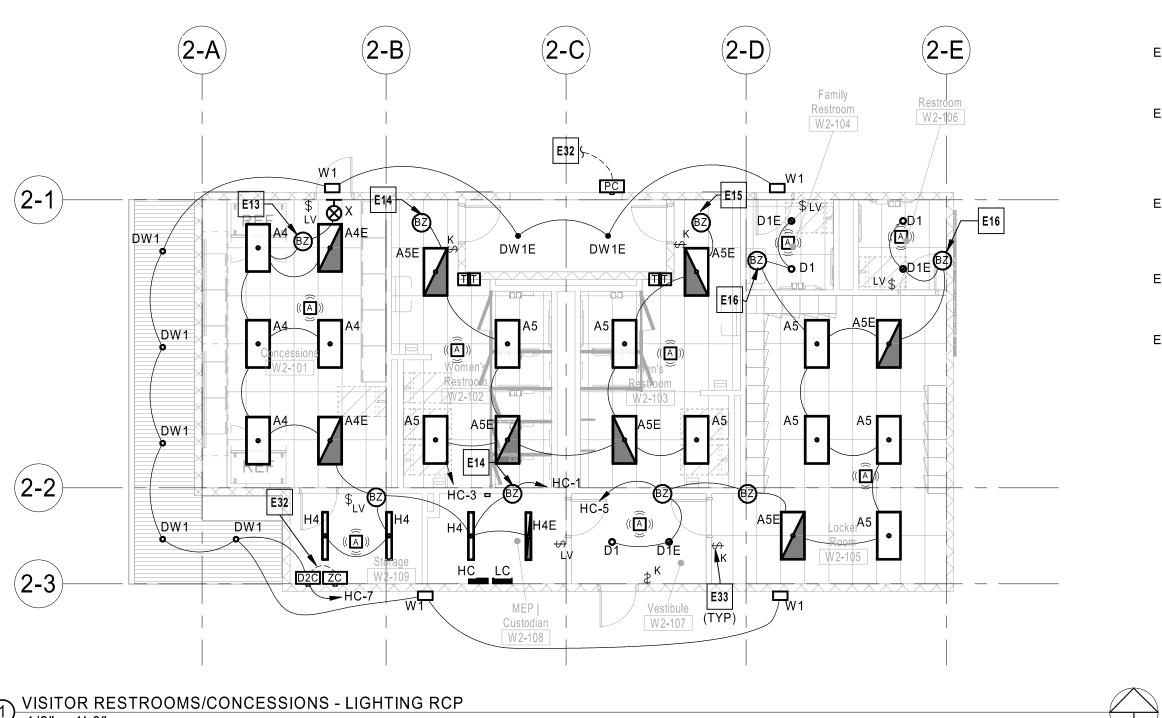
- ELECTRICAL PLAN NOTES:
- E23 ROOF IS BEING REMOVED: CONTRACTOR TO MAINTAIN EXISTING LEVEL 2 RECEPTACLE LOCATIONS AND CIRCUITING. REWORK EXISTING CONDUITS AND WIRING AS REQUIRED TO MAINTAIN EXISTING RECEPTACLE CIRCUITS.
- E24 ROOF IS BEING REMOVED: CONTRACTOR TO PROTECT EXISTING ELECTRICAL PANELS TRANSFORMERS AND EQUIPMENT FROM CONSTRUCTION DEBRIS AND WEATHER DURING CONSTRUCTION. RE-WORK EXISTING CONDUITS AND CONDUCTORS FOR EQUIPMENT AS REQUIRED TO MAINTAIN EXISTING ELECTRICAL SYSTEM AND BRANCH
- CIRCUIT CONNECTIONS. E25 VIDEO DECK RECEPTACLE TO BE SURFACE MOUNTED ON COLUMN. RECEPTACLE WILL NEED TO SHARE SPACE WITH DATA OUTLETS ON COLUMN. COORDINATE CONDUIT ROUTING , RECEPTACLE PLACEMENT AND INSTALLATION REQUIREMENTS WITH TECHNOLOGY PLANS, ARCHITECTURAL PLANS AND FIELD CONDITIONS.
- E27 MAINTAIN EXISTING CIRCUIT CONNECTIONS FOR EXISTING BASEBOARD HEATERS. REWORK EXISTING CONDUITS AND CONDUCTORS IF REQUIRED.



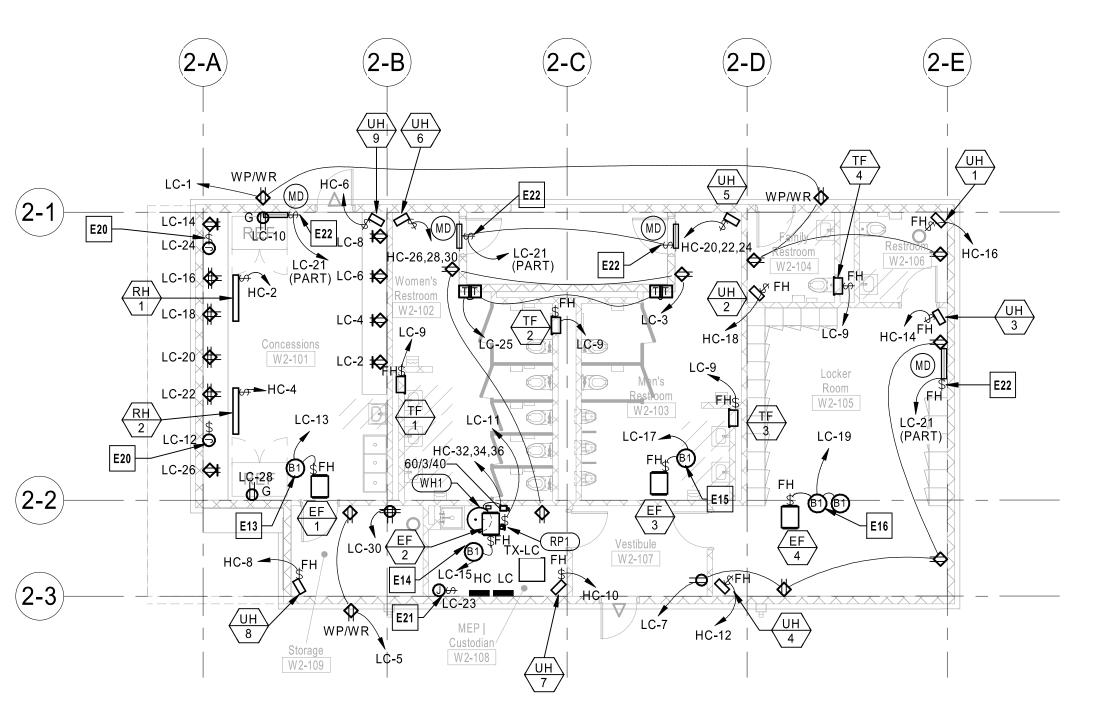
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1/8" = 1'-0"



VISITOR RESTROOMS/CONCESSIONS - POWER PLAN 1/8" = 1'-0"



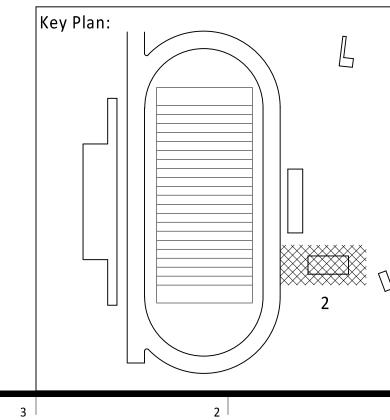
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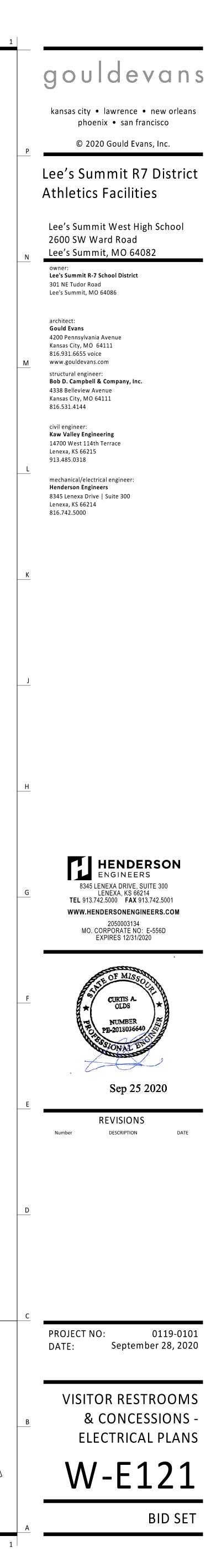


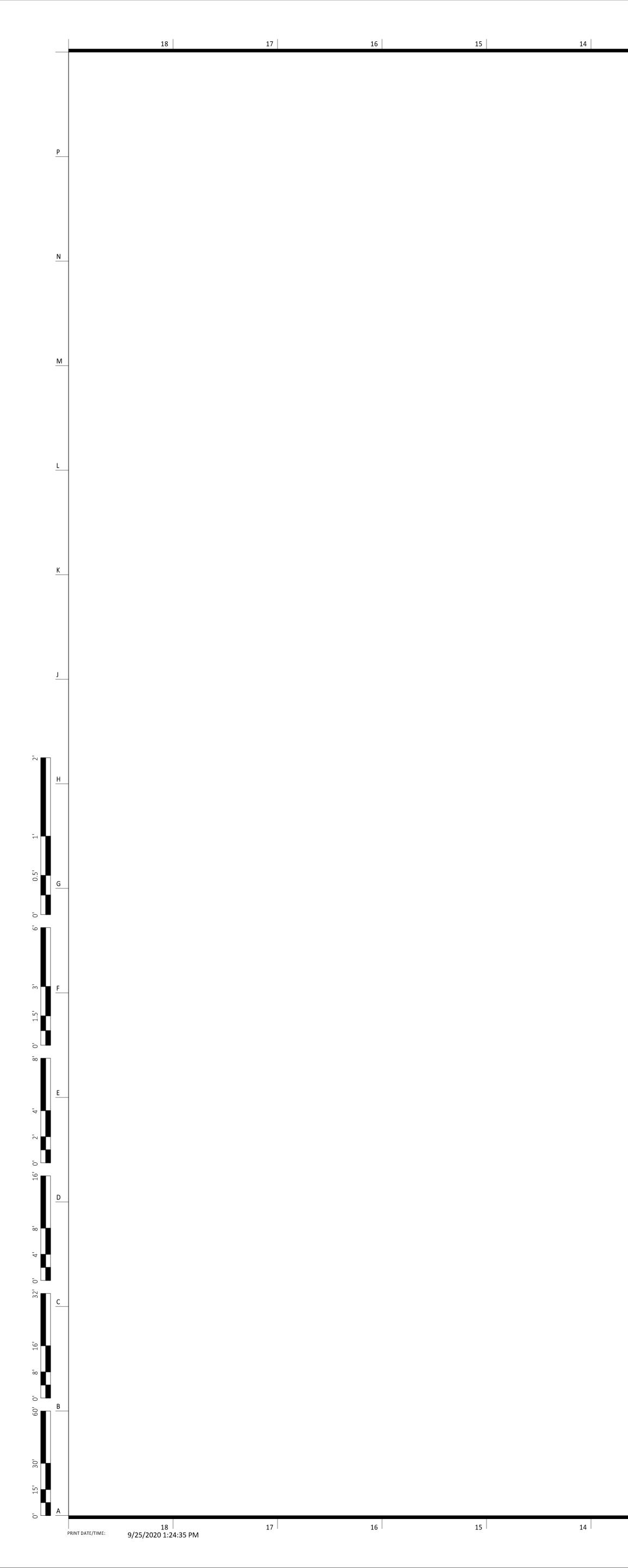
- E13 EXHAUST FAN EF-1 TO BE CONTROLLED VIA CONCESSIONS 2-101 ROOM OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND
- CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS. E14 EXHAUST FAN EF-2 TO BE CONTROLLED VIA WOMEN'S RESTROOM 2-102 OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL
- WIRING PER MANUFACTURER'S SPECIFICATIONS. E15 EXHAUST FAN EF-3 TO BE CONTROLLED VIA MEN'S RESTROOM 2-103 ROOM OCCUPANCY SENSOR IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE ADDITIONAL POWER PACK AND CONNECT TO LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS. E16 EXHAUST FAN EF-4 TO BE CONTROLLED VIA FAMILY RESTROOM 2-104 AND RESTROOM 2-106 OCCUPANCY
- SENSORS IN CONJUNCTION WITH ROOM LIGHTS. PROVIDE (2) ADDITIONAL POWER PACKS IN PARALLEL AND CONNECT TÓ LOW VOLTAGE LIGHTING CONTROL WIRING PER MANUFACTURER'S SPECIFICATIONS. E20 CONTRACTOR TO ROUGH-IN POWER AND CONTROLLER FOR
- CONCESSION STAND TICKETING WINDOW COILING DOORS. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS. E21 CONTRACTOR TO PROVIDE JUNCTION BOX AND 120V
- CONTROL POWER FOR HEATER DDC CONTROLS TRANSFORMER. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E22 CONTRACTOR TO PROVIDE JUNCTION BOX AND 120V CONTROL POWER FOR LOUVER MOTOR OPERATED DAMPERS. COORDINATE EXACT LOCATION AND QUANTITY OF CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS. E32 CONNECT LOW VOLTAGE WIRE TO ZONE CONTROLLER IN
- ROOM W2-109 TO PROVIDE PHOTO CELL AND TIME CLOCK CONTROL. REFER TO DETAIL 5 ON SHEET W-E700 FOR MORE INFORMATION.
- E33 PROVIDE KEYED SWITCH ON LOAD SIDE OF POWER PACK.











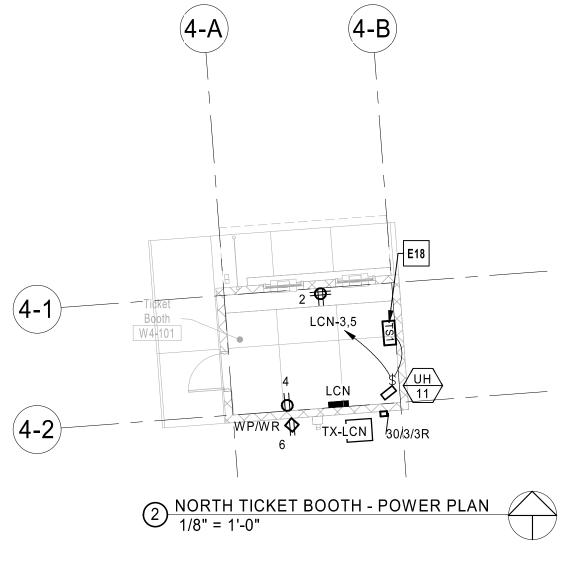
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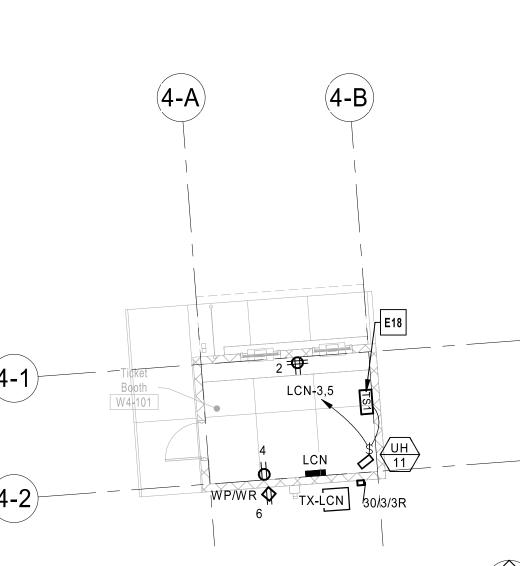


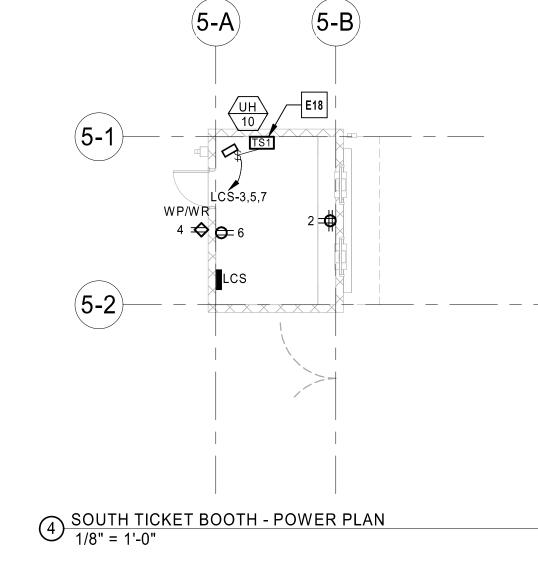
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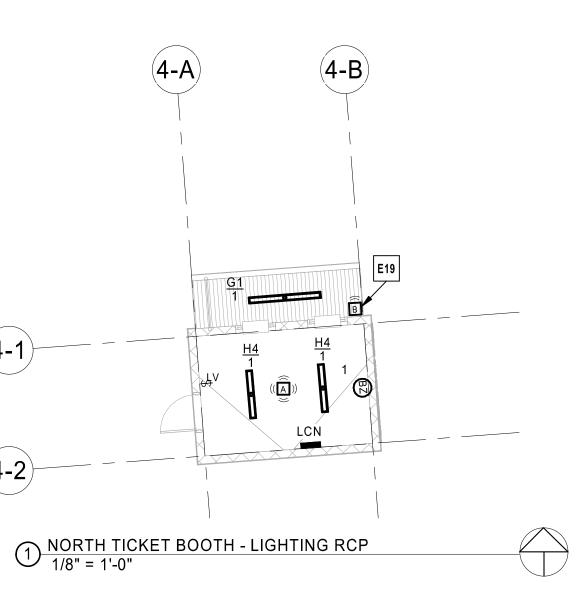






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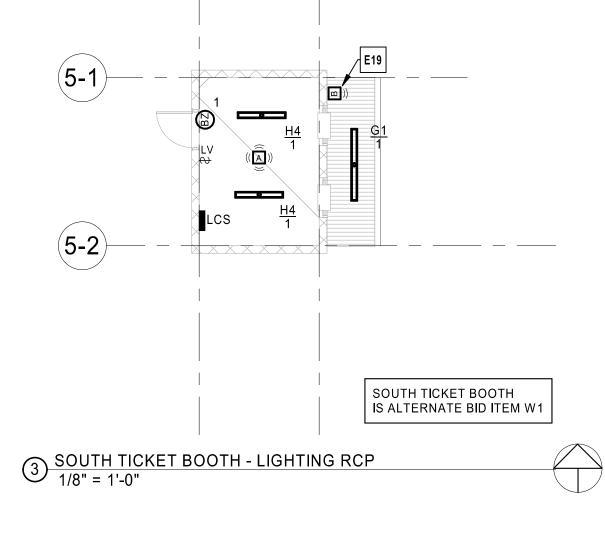
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(**5-B**[\]

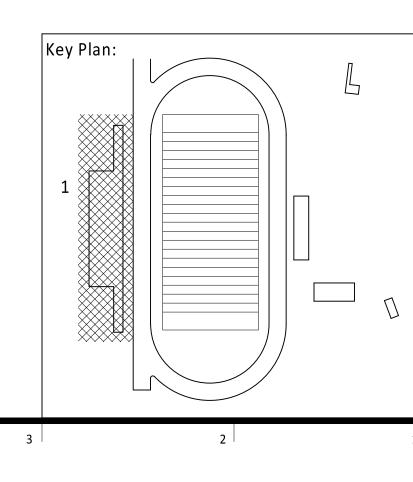
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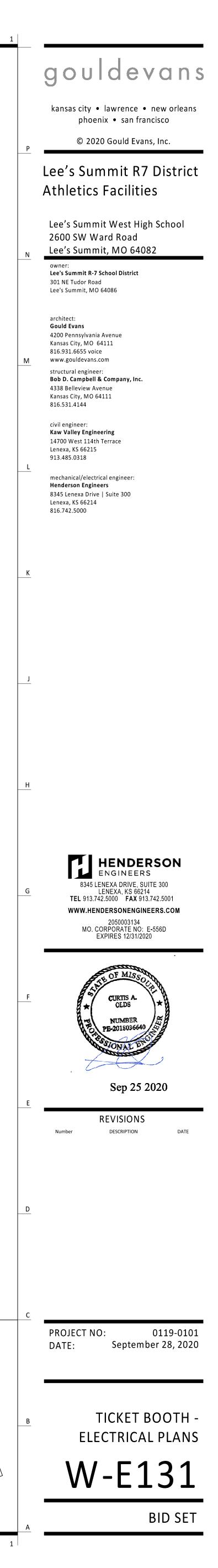
ELECTRICAL GENERAL NOTES:

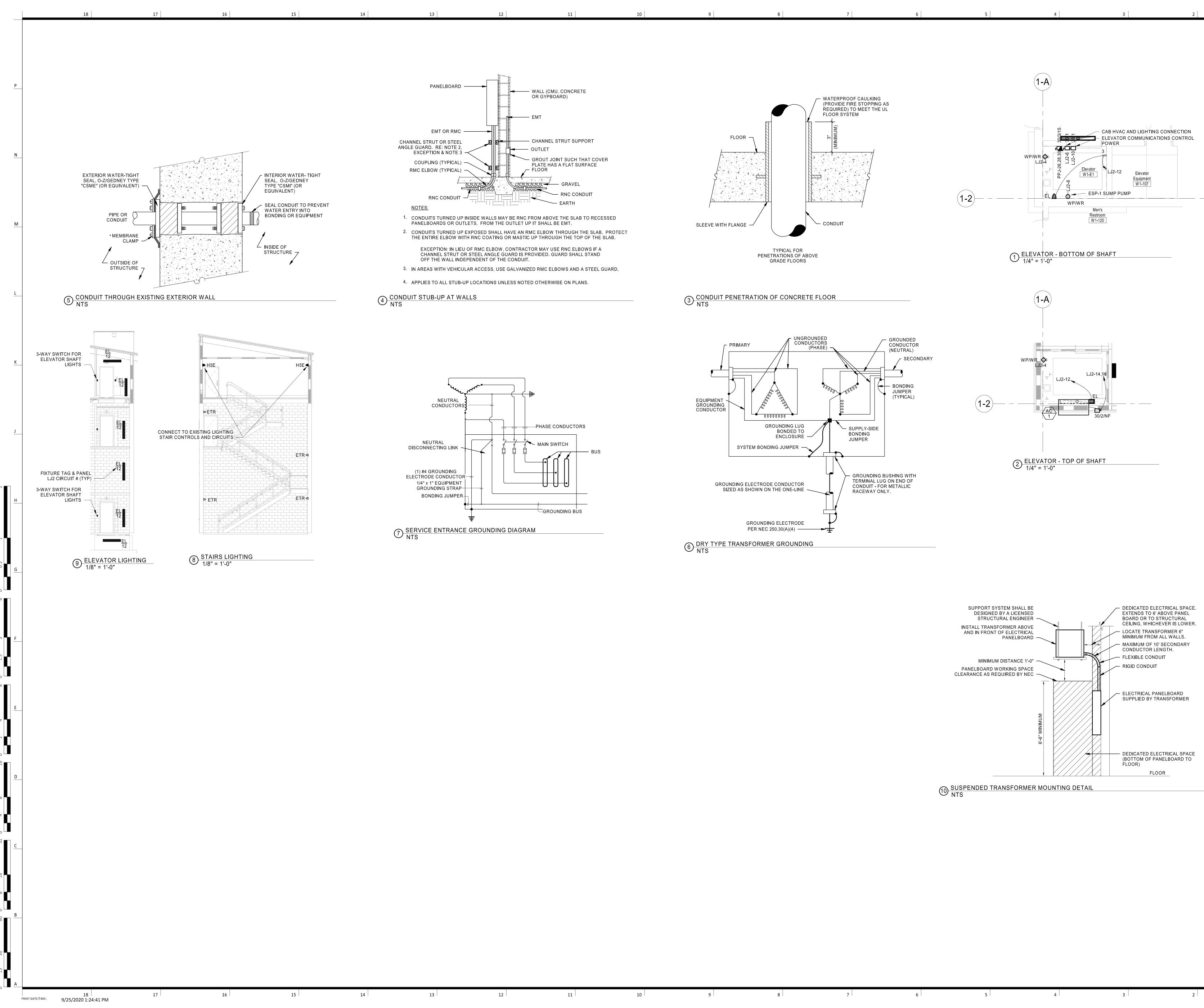
- LIGHTING IS TO BE CIRCUITED BACK TO 208/120V PANEL 1. LOCATED IN THE SAME BULIDING THE LIGHTING IS LOCATED IN UNLESS OTHERWISE NOTED. CIRCUIT AS NOTED IN FIXTURE TAG.
- 2. ALL WIRING DEVICES ARE CIRCUITED TO 208/120V PANEL IN SAME BUILDING. CIRCUIT AS NOTED BY NUMBER ADJACENT TO DEVICE.
- LIGHTING CONTROL DEVICES SHALL CONTROL ALL LIGHTING ASSOCIATED WITH THE TICKET BOOTH. REFER 3. TO DETAIL 2 ON SHEET W-E700 FOR MORE INFORMATION.

ELECTRICAL PLAN NOTES:

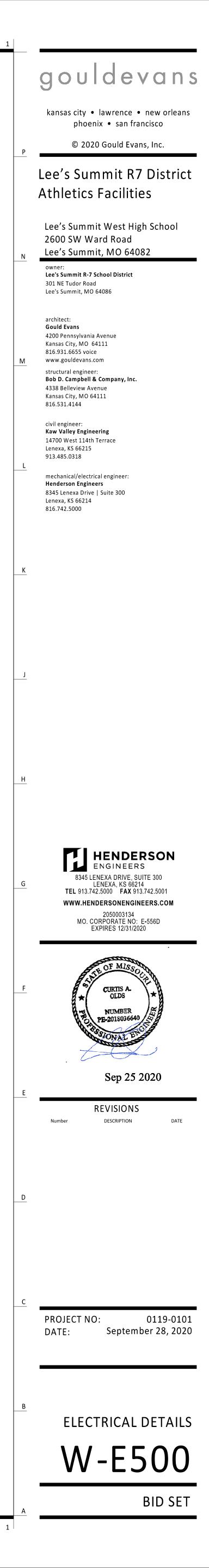
- E18 CONTRACTOR TO PROVIDE 70AB SERIES HEAVY DUTY TIMER AND LINE VOLTAGE CONTROLS WIRING FOR MANUAL CONTROL OF UNIT HEATER. COORDINATE REQUIRED TIME LENGTH WITH OWNER.
- E19 PROVIDE WATTSTOPPER CB-100 LOW TEMPERATURE OCCUPANCY SENSOR OR EQUIVALENT.

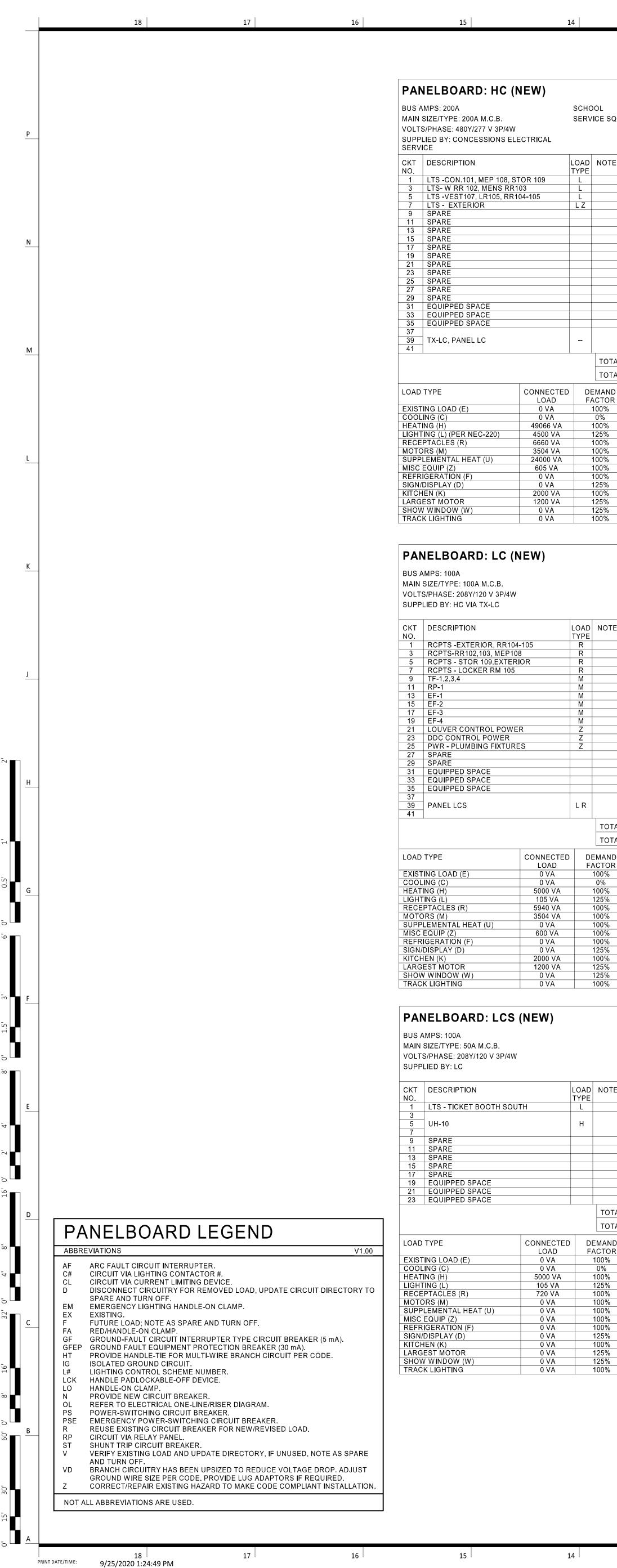






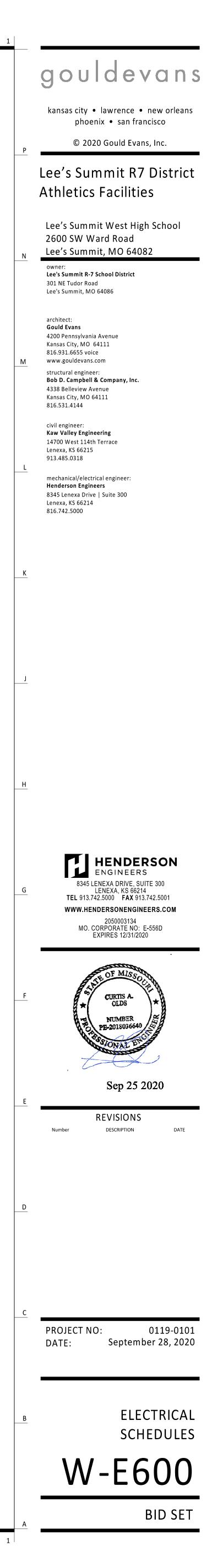






FAULT CURRENT: REFER TO ONE-LINE AIC RATED: FULLY RATED OL AIC RATING: FCA +10% MINIMUM CE SQUARE FOOTAGE: 1500 SERVES: Athletics MOUNTING: SURFACE LOCATION: MEP Custodian W2-108	EQUIPMENT GROUND BUS	PANELBOARD: LCN (NEW) BUS AMPS: 100A MAIN SIZE/TYPE: 50A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: HC VIA TX-LCN	FAULT CURREN AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:	T: REFER TO ONE-LINE FULLY RATED FCA +10% MINIMUM Ticket Booth North SURFACE Ticket Booth W4-101	EQUIPMENT GROUND BUS
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	H-2 4 H-9 6 H-8 8 H-7 10 H-4 12 H-3 14	NO.TY1LTS - NORTH TICKET BOOTH3UH-11577SPARE9SPARE11SPARE13SPARE	OAD YPE NOTES WIRE SIZE BKR AMP P PHASE A P L 12 20 1 105 360 1 H 12 20 2 1 1500 H 20 1 0 0 0 12 20 1 0 0 0 12 20 1 0 0 0 12 20 1 0 0 0 12 20 1 0 0 0 12 20 1 0 0 0	1 20 12 1 20 12	YPENO.RRCPTS - TICKETING WINDOW2RRCPT - GEN4RRCPT - EXTERIOR6SPARE8SPARE10SPARE12SPARE14
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	H-2 18 20 H-5 22 H-6 28 30 H-1 34 36	15 EQUIPPED SPACE 17 EQUIPPED SPACE 19 EQUIPPED SPACE 21 EQUIPPED SPACE 23 EQUIPPED SPACE LOAD TYPE CONNECTED LOAD		0 1 1 0 0 1 1 1 1 1 0 0 1 1 680 VA 1680 VA 16 A 16 A	EQUIPPED SPACE 16 EQUIPPED SPACE 18 EQUIPPED SPACE 20 EQUIPPED SPACE 22 EQUIPPED SPACE 24
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00% 49066 VA 25% 5625 VA 00% 6660 VA	TOTAL NEC LOAD92960 VATOTAL CONNECTED CURRENT110 ATOTAL NEC DEMAND CURRENT112 A	KITCHEN (K)0 VALARGEST MOTOR0 VASHOW WINDOW (W)0 VATRACK LIGHTING0 VA	100% 0 VA 125% 0 VA 125% 0 VA 100% 0 VA		
FAULT CURRENT: REFER TO ONE-LINE AIC RATED: FULLY RATED AIC RATING: FCA +10% MINIMUM SERVES: Concessions MOUNTING: SURFACE LOCATION: MEP Custodian W2-108	EQUIPMENT GROUND BUS	PANELBOARD: PPJ (EXISTING) BUS AMPS: 150A MAIN SIZE/TYPE: MLO VOLTS/PHASE: 480Y/277 V 3P/4W SUPPLIED BY: MDPJ	FAULT CURRENT AIC RATED: AIC RATING: SERVES: MOUNTING: LOCATION:	T: FULLY RATED FCA +10% MINIMUM PRESS BOX SURFACE Electrical W1-204	EQUIPMENT GROUND BUS LINE-SIDE LUGS: MECHANICAL
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	DESCRIPTION CKT NO. CPTS - AC, CON 101-1 2 CPTS - AC, CON 101-2 4 CPTS - AC, CON 101-3 6 CPTS - AC, CON 101-4 8 EFRIGERATOR - CON 101 10 OILING DOOR TICKETING 12 CPT - CON 101 TICKET AC 14	CKT NO.DESCRIPTION TYLC TY1EXISTING LOADTY3EUH-5 ETRTY5EUH-6 ETRTY7EUH-10 ETRTY9EUH-11 ETRTY11EUH-12 ETRTY13EXISTING LOADTY	YPE SIZE AMP A 20 1 1000 3000 20 1 1000 3000 20 1 200 1 20 20 1 3000 20 1 3000 3000 20 1 3000 3000 20 1 3000 3000 20 1 1000 1000	3000 1 20 1 3000 3000 1 20 1 3000 3000 1 20 1 3000 1 20 1 3000 1 20 1 3000 1 20 1 1 20 1 20 1 20 1 20	DAD YPEDESCRIPTIONCKT NO.EUH-7 ETR2EUH-8 ETR4EUH-9 ETR6EXISTING LOAD8LTS - FLAGPOLE ETR10EUH-4 ETR12EXISTING LOAD14
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CPT - CON 101 TICKET 1 16 CPT - CON 101 TICKET 2 18 CPT - CON 101 TICKET 3 20 CPT - CON 101 TICKET 4 22 OILING DOOR TICKETING 24 CPT - CON 101 TICKET AC 26 EFRIGERATOR - CON 101 28 CPT - DATA RACK IN STORAGE RM 30 PARE 32 PARE 34 PARE 36		O/L 70 3 H 12 20 1 LZ 12 20 1 O/L 50 3 TOTAL LOAD (VA): 35572 VA 36	951 0 1 3326 3 30 O/L 3920 3326 30 O/L 5616 VA 35196 VA 5616 VA 5616 VA	EXISTING LOAD16EQUIPPED SPACE18EQUIPPED SPACE20EQUIPPED SPACE22EQUIPPED SPACE24MNEW ELEVATOR2830
OL 50 3 2132 0 1 1 1 1 1 TOTAL LOAD (VA): 5740 VA 6411 VA 6199 VA TOTAL AMPS: 48 A 54 A 52 A MAND CTOR NEC DEMAND 00% PANELBOARD NOTES 00% 0 VA 00% 0 VA 25% 0 F - GFCI TYPE CIRCUIT BREAKER	ANCL 30 QUIPPED SPACE 38 QUIPPED SPACE 40 QUIPPED SPACE 42 PANELBOARD TOTALS TOTAL CONNECTED LOAD 18349 VA TOTAL NEC LOAD 18675 VA TOTAL CONNECTED CURRENT 51 A	LOAD TYPECONNECTED LOADEXISTING LOAD (E)82000 VACOOLING (C)1061 VAHEATING (H)6000 VALIGHTING (L)2136 VARECEPTACLES (R)3420 VAMOTORS (M)1176 VASUPPLEMENTAL HEAT (U)0 VAMISC EQUIP (Z)1615 VAREFRIGERATION (F)0 VASIGN/DISPLAY (D)0 VA	TOTAL AMPS: 129 A DEMAND FACTOR NEC DEMAND PANELBOARD NOTES 100% 82000 VA PANELBOARD NOTES 0% 0 VA PANELBOARD NOTES 100% 6000 VA PANELBOARD NOTES 100% 6000 VA PANELBOARD NOTES 100% 0 VA PANELBOARD NOTES 100% 1176 VA PANELBOARD NOTES 100% 0 VA PANELBOARD NOTES 100% 0 VA PANELBOARD NOTES	132 A 127 A	PANELBOARD TOTALSTOTAL CONNECTED LOAD107385 VATOTAL NEC LOAD109352 VATOTAL CONNECTED CURRENT129 ATOTAL NEC DEMAND CURRENT132 A
00% 5940 VA 00% 3504 VA 00% 0 VA 00% 600 VA 00% 0 VA 25% 0 VA 00% 2000 VA 25% 1500 VA 25% 0 VA 20% 0 VA	TOTAL NEC DEMAND CURRENT 52 A	KITCHEN (K) 0 VA LARGEST MOTOR 9977 VA SHOW WINDOW (W) 0 VA TRACK LIGHTING 0 VA PANELBOARD: LJ2 (NEW) BUS AMPS: 100A	100% 0 VA 125% 12471 VA 125% 0 VA 100% 0 VA FAULT CURRENT AIC RATED: AIC RATING:	T: REFER TO ONE-LINE FULLY RATED FCA +10% MINIMUM	EQUIPMENT GROUND BUS
FAULT CURRENT:REFER TO ONE-LINEAIC RATED:FULLY RATEDAIC RATING:FCA +10% MINIMUMSERVES:TICKET BOOTH SOUTHMOUNTING:SURFACELOCATION:Ticket Booth W5-101	EQUIPMENT GROUND BUS LINE-SIDE LUGS: MECHANICAL	MAIN SIZE/TYPE: 100A M.C.B. VOLTS/PHASE: 208Y/120 V 3P/4W SUPPLIED BY: PPJ VIA TX-LJ2 CKT DESCRIPTION LO NO. TY 1 RCPTS - VIDEO DECK 1 F 3 RCPTS - VIDEO DECK 2	SERVES: MOUNTING: LOCATION: DAD NOTES WIRE BKR P PHASE PHASE YPE SIZE AMP A PHASE PHASE R 12 20 1 720 600 R 12 20 1 540	PRESSBOX SURFACE Storage/Data W1-302 HASE PHASE P B C P BKR WIRE NOTES LC AMP SIZE TY 1 20 12 12	YPENO.ZHUDL CAM2RRCPTS - ELEVATOR SHAFT4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	DESCRIPTIONCKT NO.CPTS - TICKETING2CPTS - EXTERIOR4CPTS - GEN INTERIOR6PARE8PARE10PARE12PARE14	7RCPTS - VIDEO DECK 4F9RCPTS - VIDEO DECK 5/STORF11RCPTS - IT STOR/DATA 1F13RCPTS - IT STOR/DATA 2F15SPAREF17SPAREF19SPAREF21SPAREF23SPAREF	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 20 12 1 500 1 20 12 1 180 1200 1 20 12 10 2 15 12 12 10 530 0 1500 2 20 12 0 1500 2 20 12 12 0 1 20 12 12	ZELEVATOR CAB LTS/EF6MESP-18ZELEVATOR COMMUNICATIONS POWER10LLTS - ELEVATOR SHAFT12CAC-1141616HUH-131820SPARE22SPARE24
20 1 0 0 1 0 0 1 E 1 1 0 0 0 1 0 E 1 1 0 0 0 1 0 E 1 1 0 0 0 1 0 E 1 1 0 0 0 1 0 E 1 1 0 0 0 1 0 E 1 1 1 0 0 1 0 E 1 1 1 1 0 0 1 E 1 1 1 1 1 0 1 E 1 1 1 1 1 1 1 E 1 1 1 1 1 1 1 E 1 1 1 1 1 1 1 E 1 1 1 1 1 1 1 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <	PARE 16 QUIPPED SPACE 18 QUIPPED SPACE 20 QUIPPED SPACE 22 QUIPPED SPACE 24 PANELBOARD TOTALS	25SPARE27SPARE29SPARE31EQUIPPED SPACE33EQUIPPED SPACE35EQUIPPED SPACE37EQUIPPED SPACE39EQUIPPED SPACE41EQUIPPED SPACE	20 1 0 0 20 1 0 0 20 1 0 0 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 1 0 1 1 1 1	0 1 20 1 0 0 1 20 1 0 1 20 1 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 290 VA 3920 VA 3920 VA	CAC-1141616HUH-1320SPARE22SPARE24SPARE26SPARE28SPARE30EQUIPPED SPACE32EQUIPPED SPACE34EQUIPPED SPACE36EQUIPPED SPACE38EQUIPPED SPACE40EQUIPPED SPACE40
CTOR 00% 0 VA 00% 0 VA 00% 5000 VA 25% 131 VA 00% 720 VA	TOTAL CONNECTED LOAD5825 VATOTAL NEC LOAD5851 VATOTAL CONNECTED CURRENT16 ATOTAL NEC DEMAND CURRENT16 A	LOAD TYPECONNECTED LOADEXISTING LOAD (E)0 VACOOLING (C)1061 VAHEATING (H)3000 VALIGHTING (L)1200 VARECEPTACLES (R)3420 VAMOTORS (M)0 VASUPPLEMENTAL HEAT (U)0 VAMISC EQUIP (Z)1600 VAREFRIGERATION (F)0 VASIGN/DISPLAY (D)0 VAKITCHEN (K)0 VALARGEST MOTOR1176 VASHOW WINDOW (W)0 VA	TOTAL AMPS: 46 A DEMAND FACTOR NEC DEMAND PANELBOARD NOTES 100% 0 VA 0% 00% 0 VA 0% 100% 0 VA 0% 100% 0 VA 0% 100% 3000 VA 0 100% 3420 VA 0 100% 0 VA 0 125% 0 VA 0 125% 1470 VA 125% 125% 0 VA 0	290 VA 3920 VA 19 A 35 A	PANELBOARD TOTALSTOTAL CONNECTED LOAD11457 VATOTAL NEC LOAD10990 VATOTAL CONNECTED CURRENT32 ATOTAL NEC DEMAND CURRENT31 A
		TRACK LIGHTING 0 VA	100% 0VA		

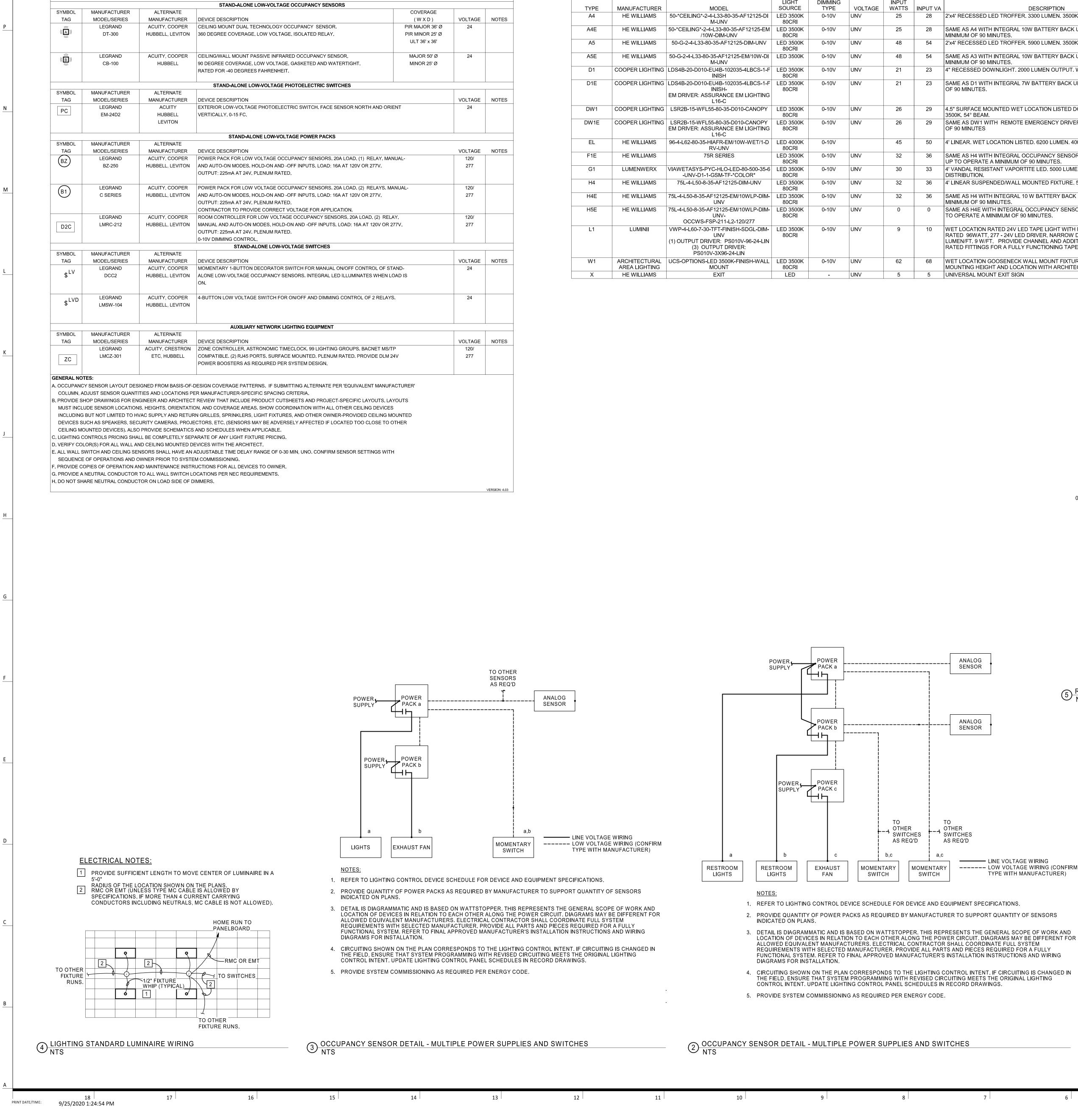
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LIGHTING CONTROL DEVICE SCHEDULE

STAND-ALONE LOW-VOLTAGE LIGHTING CONTROL SYSTEMS

14



11 10		
	10	11

V	DLTAGE 24	NOTES
	24	
	DLTAGE 24	NOTES
	OLTAGE	NOTES
	120/ 277	
	120/ 277	
	120/ 277	
V	DLTAGE 24	NOTES
	24	
	OLTAGE 120/	NOTES
	277	

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			LAMPING /						
TYPE	MANUFACTURER	MODEL	LIGHT	DIMMING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION	NOTES
A4	HE WILLIAMS	50-*CEILING*-2-4-L33-80-35-AF12125-DI M-UNV	LED 3500K 80CRI	0-10V	UNV	25	28	2'x4' RECESSED LED TROFFER. 3300 LUMEN. 3500K.	
A4E	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.	
A5	HE WILLIAMS	50-G-2-4-L33-80-35-AF12125-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	48	54	2'x4' RECESSED LED TROFFER. 5900 LUMEN. 3500K.	
A5E	HE WILLIAMS	50-G-2-4-L33-80-35-AF12125-EM/10W-DI M-UNV	LED 3500K	0-10V	UNV	48	54	SAME AS A3 WITH INTEGRAL 10W BATTERY BACK UP. TO OPERATE FOR A MINIMUM OF 90 MINUTES.	
D1	COOPER LIGHTING	LDS4B-20-D010-EU4B-102035-4LBCS-1-F INISH	LED 3500K 80CRI	0-10V	UNV	21	23	4" RECESSED DOWNLIGHT. 2000 LUMEN OUTPUT. WET LOCATION LISTED.	
D1E		LDS4B-20-D010-EU4B-102035-4LBCS-1-F INISH- EM DRIVER: ASSURANCE EM LIGHTING L16-C	LED 3500K 80CRI	0-10V	UNV	21	23	SAME AS D1 WITH INTEGRAL 7W BATTERY BACK UP. TO OPERATE A MINIMUM OF 90 MINUTES.	
DW1	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY	LED 3500K 80CRI	0-10V	UNV	26	29	4.5" SURFACE MOUNTED WET LOCATION LISTED DOWNLIGHT. 1500 LUMEN. 3500K. 54° BEAM.	
DW1E	COOPER LIGHTING	LSR2B-15-WFL55-80-35-D010-CANOPY EM DRIVER: ASSURANCE EM LIGHTING L16-C	LED 3500K 80CRI	0-10V	UNV	26	29	SAME AS DW1 WITH REMOTE EMERGENCY DRIVER TO OPERATE A MINIMUM OF 90 MINUTES	
EL	HE WILLIAMS	96-4-L62-80-35-HIAFR-EM/10W-WET/1-D RV-UNV	LED 4000K 80CRI	0-10V		45	50	4' LINEAR. WET LOCATION LISTED. 6200 LUMEN. 4000K	
F1E	HE WILLIAMS	75R SERIES	LED 3500K 80CRI	0-10V	UNV	32	36	SAME AS H4 WITH INTEGRAL OCCUPANCY SENSOR AND 10W BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES.	
G1	LUMENWERX	VIAWETASYS-PYC-HLO-LED-80-500-35-6 -UNV-D1-1-GSM-TF-*COLOR*	LED 3500K 80CRI	0-10V	UNV	30	33	4' VANDAL RESISTANT VAPORTITE LED. 5000 LUMEN. 3500K. GENERAL DISTRIBUTION.	
H4	HE WILLIAMS	75L-4-L50-8-35-AF12125-DIM-UNV	LED 3500K 80CRI	0-10V	UNV	32	36	4' LINEAR SUSPENDED/WALL MOUNTED FIXTURE. 5000 LUMEN. 3500K.	
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 INTEGRAL 10 W BATTERY BACK UP TO OPERATE 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	0	0	SAME AS H4E WITH INTEGRAL OCCUPANCY SENSOR AND BATTERY BACK UP TO OPERATE A MINIMUM OF 90 MINUTES.	
L1	LUMINII	VWP-4-L60-7-30-TFT-FINISH-SDGL-DIM- UNV (1) OUTPUT DRIVER: PS010V-96-24-LIN (3) OUTPUT DRIVER: PS010V-3X96-24-LIN	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.	
W1	ARCHITECTURAL AREA LIGHTING	UCS-OPTIONS-LED 3500K-FINISH-WALL MOUNT	LED 3500K 80CRI	0-10V	UNV	62	68	WET LOCATION GOOSENECK WALL MOUNT FIXTURE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.	
Х	HE WILLIAMS	EXIT	LED	-	UNV	5	5	UNIVERSAL MOUNT EXIT SIGN	

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.
- 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.
- FOR EXTERIOR LIGHTING ONLY ZONE CONTROLLER TO OTHER ROOM POWER LIGHTING LOAD - CONTROLLERS AS REQ'D SUPPLY ROOM CONTROLLER TO OTHER DIGITAL SENSOR REQ'D -----0-10V WIRING AS NEEDED. TO OTHER REQ'D LINE VOLTAGE WIRING ----- LOW VOLTAGE WIRING (CONFIRM TYPE CONNECTED CONNECTED DIGITAL SWITCH WITH MANUFACTURER) LOAD LOAD --- 0-10V DIMMING WIRING <u>NOTES:</u>
- 1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
- 2. QUANTITY OF RELAYS SHOWN IS GENERIC. REFER TO PLANS, LIGHTING CONTROL DEVICE SCHEDULE, AND SHOP DRAWINGS FOR FINAL QUANTITY PER ROOM CONTROLLER.
- 3. DETAIL IS DIAGRAMMATIC AND IS BASED ON LEGRAND. 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.
- 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.

5 ROOM CONTROLLER DETAIL - ON/OFF OR ON/OFF/0-10V DIMMING CONTROL NTS

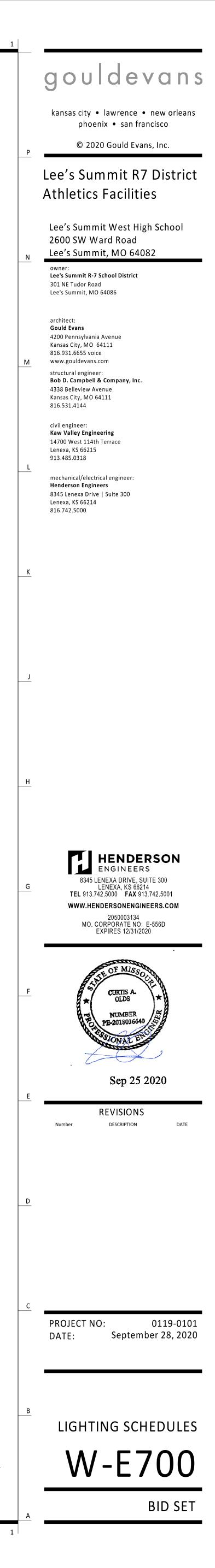
SENSOR

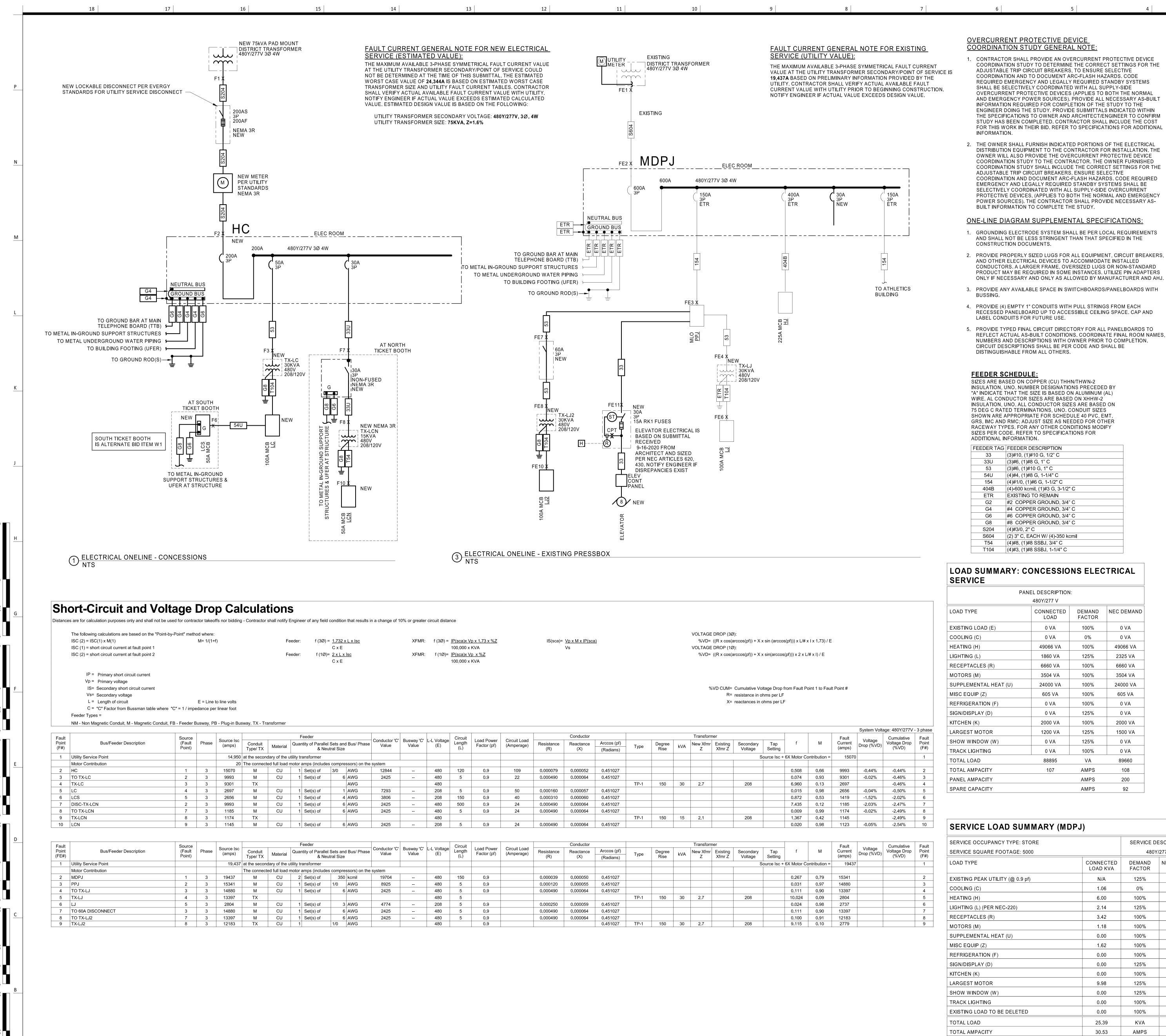
ANALOG

- ANALOG SENSOR
- SUPPLY _____ OTHER SWITCHES AS REQ'D ------ LINE VOLTAGE WIRING ----- LOW VOLTAGE WIRING (CONFIRM TYPE WITH MANUFACTURER) CONNECTED MOMENTARY SWITCH LOAD <u>NOTES:</u> INDICATED ON PLANS. DIAGRAMS FOR INSTALLATION.
- TO OTHER SENSORS AS REQ'D ANALOG POWER POWER -----PACK SENSOR TO OTHER ----- SWITCHES AS REQ'D LINE VOLTAGE WIRING ----- LOW VOLTAGE WIRING (CONFIRM TYPE WITH MANUFACTURER)
 - 1. REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR DEVICE AND EQUIPMENT SPECIFICATIONS.
 - PROVIDE QUANTITY OF POWER PACKS AS REQUIRED BY MANUFACTURER TO SUPPORT QUANTITY OF SENSORS
 - 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
 - 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 - SINGLE POWER SUPPY AND SWITCH

7	6	5	4	3	2





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	Circuit				Conductor					maneren					1 1	Fault		Cu
/ 'C' L-L Voltage e (E)	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	Current (amps)	Voltage Drop (%VD)	Volt (
						(reductio)						S	ource lsc +	6X Motor Co	ontribution =	15070	,††	
480	120	0.9	109	0.000079	0.000052	0.451027								0.508	0.66	9993	-0.44%	_
480	5	0.9	22	0.000490	0.000064	0.451027								0.074	0.93	9301	-0.02%	-
480							TP-1	150	30	2.7		208		6.960	0.13	2697		-
208	5	0.9	50	0.000160	0.000057	0.451027								0.015	0.98	2656	-0.04%	-
208	150	0.9	40	0.000310	0.000060	0.451027								0.872	0.53	1419	-1.52%	-
480	500	0.9	24	0.000490	0.000064	0.451027								7.435	0.12	1185	-2.03%	_
480	5	0.9	24	0.000490	0.000064	0.451027								0.009	0.99	1174	-0.02%	-
480							TP-1	150	15	2.1		208		1.367	0.42	1145		-
400				0.000400	0.000004	0.454007								0.020	0.98	1123	-0.05%	
208	5	0.9	24	0.000490	0.000064	0.451027								0.020				
208	Circuit			0.000490	Conductor	0.451027				Transform	ner			0.020				
208	Circuit	0.9 Load Power Factor (pf)	24 Circuit Load (Amperage)	Resistance (R)		Arccos (pf)	- Туре	Degree Rise	kVA	Transform New Xfmr Z		Secondary Voltage	Tap Setting	f	M	Fault Current (amps)	Vallera	Cu Volt (
208	Circuit Length	Load Power	Circuit Load	Resistance	Conductor Reactance	1	- Туре	Degree Rise	kVA	New Xfmr	Existing	Voltage	Setting	f		Fault Current	Voltage Drop (%VD)	Cu Volt
208	Circuit Length	Load Power	Circuit Load	Resistance	Conductor Reactance	Arccos (pf)	- Туре	Degree Rise	kVA	New Xfmr	Existing	Voltage	Setting	f	М	Fault Current (amps)	Voltage Drop (%VD)	Cu Volt (
208	Circuit Length	Load Power	Circuit Load	Resistance	Conductor Reactance	Arccos (pf)	- Туре	Degree Rise	kVA	New Xfmr	Existing	Voltage	Setting	f	М	Fault Current (amps)	Voltage Drop (%VD)	Cu Volt (
/ 'C' L-L Voltage e (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load	Resistance (R)	Conductor Reactance (X)	Arccos (pf) (Radians)	- Type	Degree Rise	kVA	New Xfmr	Existing	Voltage	Setting	f 6X Motor Co	M ontribution =	Fault Current (amps) 19437	Voltage Drop (%VD)	Cu Volt (
208 / 'C' L-L Voltage (E) 480	Circuit Length (L) 150	Load Power Factor (pf)	Circuit Load	Resistance (R) 0.000039	Conductor Reactance (X) 0.000050	Arccos (pf) (Radians) 0.451027	- Type	Degree Rise	kVA	New Xfmr	Existing	Voltage	Setting	f 6X Motor Co 0.267	M ontribution = 0.79	Fault Current (amps) 19437 15341	Voltage Drop (%VD)	Cu Volt (
208 / 'C' L-L Voltage (E) 480 480	Circuit Length (L) 150 5	Load Power Factor (pf)	Circuit Load	Resistance (R) 0.000039 0.000120	Conductor Reactance (X) 0.000050 0.000055	Arccos (pf) (Radians) 0.451027 0.451027	Type	Degree Rise	kVA 	New Xfmr	Existing	Voltage	Setting	f 6X Motor Co 0.267 0.031	M ontribution = 0.79 0.97	Fault Current (amps) 19437 15341 14880	Voltage Drop (%VD)	Cu Volt (
208 ('C' L-L Voltage (E) 480 480 480 480	Circuit Length (L) 150 5 5	Load Power Factor (pf)	Circuit Load	Resistance (R) 0.000039 0.000120	Conductor Reactance (X) 0.000050 0.000055	Arccos (pf) (Radians) 0.451027 0.451027		Rise		New Xfmr Z	Existing	Voltage S	Setting	f 6X Motor Co 0.267 0.031 0.111	M ontribution = 0.79 0.97 0.90	Fault Current (amps) 19437 15341 14880 13397	Voltage Drop (%VD)	Cu Volt (
208 208 (C' L-L Voltage (E) 480 480 480 480 480	Circuit Length (L) 150 5 5 5 5	Load Power Factor (pf) 0.9 0.9 0.9	Circuit Load	Resistance (R) 0.000039 0.000120 0.000490	Conductor Reactance (X) 0.000050 0.000055 0.000064	Arccos (pf) (Radians) 0.451027 0.451027 0.451027		Rise		New Xfmr Z	Existing	Voltage S	Setting	f 6X Motor Co 0.267 0.031 0.111 10.024	M ontribution = 0.79 0.97 0.90 0.09	Fault Current (amps) 19437 15341 14880 13397 2804	Voltage Drop (%VD)	Cu Volt (
208 208 (C' L-L Voltage (E) 480 480 480 480 480 208	Circuit Length (L) 150 5 5 5 5 5	Load Power Factor (pf) 0.9 0.9 0.9 0.9	Circuit Load	Resistance (R) 0.000039 0.000120 0.000490 0.000250	Conductor Reactance (X) 0.000050 0.000055 0.000064 0.000059	Arccos (pf) (Radians) 0.451027 0.451027 0.451027 0.451027		Rise		New Xfmr Z	Existing	Voltage S	Setting	f 6X Motor Co 0.267 0.031 0.111 10.024 0.024	M ontribution = 0.79 0.97 0.90 0.09 0.09 0.98	Fault Current (amps) 19437 15341 14880 13397 2804 2737	Voltage Drop (%VD)	Cu Volt (

ELECTRICAL UTILITY CONTACT NOTE:

UTILITY COMPANY: EVERGY ENERGY UTILITY CONTACT: RON DEJARNETTE EMAIL: RON.DEJARNETTE@EVERGY.COM

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%.
- 2. REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE 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.
- 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.
- 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.
- 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 " LINE 4: TRANSFORMER "_____" SUPPLIES DOWNSTREAM LINE 5: PANELBOARD(S) "_____"

ONE-LINE DIAGRAM GENERAL NOTES:

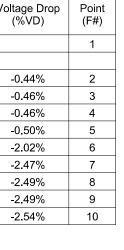
- 1. COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL 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. B. PROVIDE A PLAN SKETCH OF THE LANDLORD'S DISTRIBUTION EQUIPMENT LOCATION RELATIVE TO THE ENTIRE BUILDING. INCLUDE THE LOCATION,
- 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 EQUIPMENT. 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.

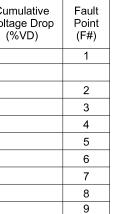
SERVICE OCCUPANCY TYPE: STORE		SERVICE D	ESCRIPTION:
SERVICE SQUARE FOOTAGE: 5000		480Y	/277 V
LOAD TYPE	CONNECTED LOAD KVA	DEMAND FACTOR	NEC DEMAND KVA
EXISTING PEAK UTILITY (@ 0.9 pf)	N/A	125%	300.00
COOLING (C)	1.06	0%	0.00
HEATING (H)	6.00	100%	6.00
LIGHTING (L) (PER NEC-220)	2.14	125%	2.67
RECEPTACLES (R)	3.42	100%	3.42
MOTORS (M)	1.18	100%	1.18
SUPPLEMENTAL HEAT (U)	0.00	100%	0.00
MISC EQUIP (Z)	1.62	100%	1.62
REFRIGERATION (F)	0.00	100%	0.00
SIGN/DISPLAY (D)	0.00	125%	0.00
KITCHEN (K)	0.00	100%	0.00
LARGEST MOTOR	9.98	125%	12.47
SHOW WINDOW (W)	0.00	125%	0.00
TRACK LIGHTING	0.00	100%	0.00
EXISTING LOAD TO BE DELETED	0.00	100%	0.00
TOTAL LOAD	25.39	KVA	327.35
TOTAL AMPACITY	30.53	AMPS	393.75
SERVICE AMPACITY		AMPS	600.00
SPARE CAPACITY		AMPS	206.25
*PER UTILITY COMPANY BILLING PEAK DEMAND C)F:	216.00 KW	8-19-2019

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LOAD SUMMARY: CONCESSIONS ELECTRICAL

480Y/277 V CONNECTED DEMAND NEC DEMAND LOAD FACTOR 0 V A 100% 0 VA 0 V A 0% 0 V A 49066 VA 49066 VA 100% 1860 VA 125% 2325 VA 6660 VA 100% 6660 VA 3504 VA 100% 3504 VA 24000 VA 100% 24000 VA 605 VA 100% 605 VA 0 VA 0 V A 100% 0 V A 125% 0 VA 2000 VA 100% 2000 VA 1200 VA 125% 1500 VA 0 V A 125% 0 VA 0 V A 0 VA 100% 88895 VA 89660 107 AMPS 108 AMPS 200 AMPS 92

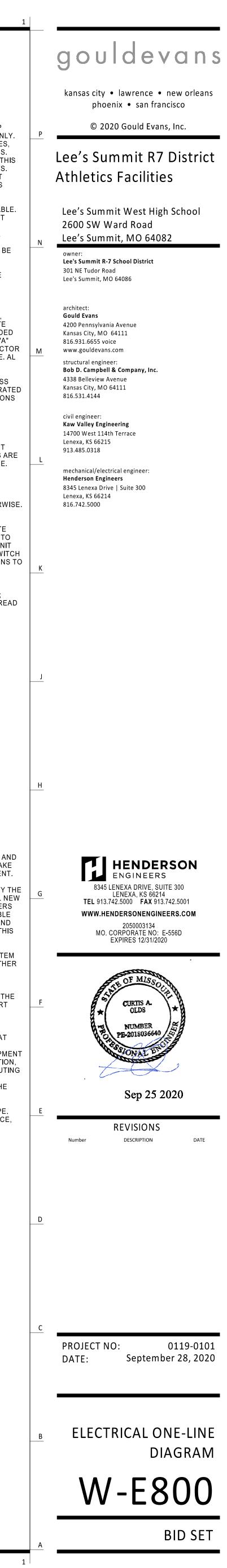


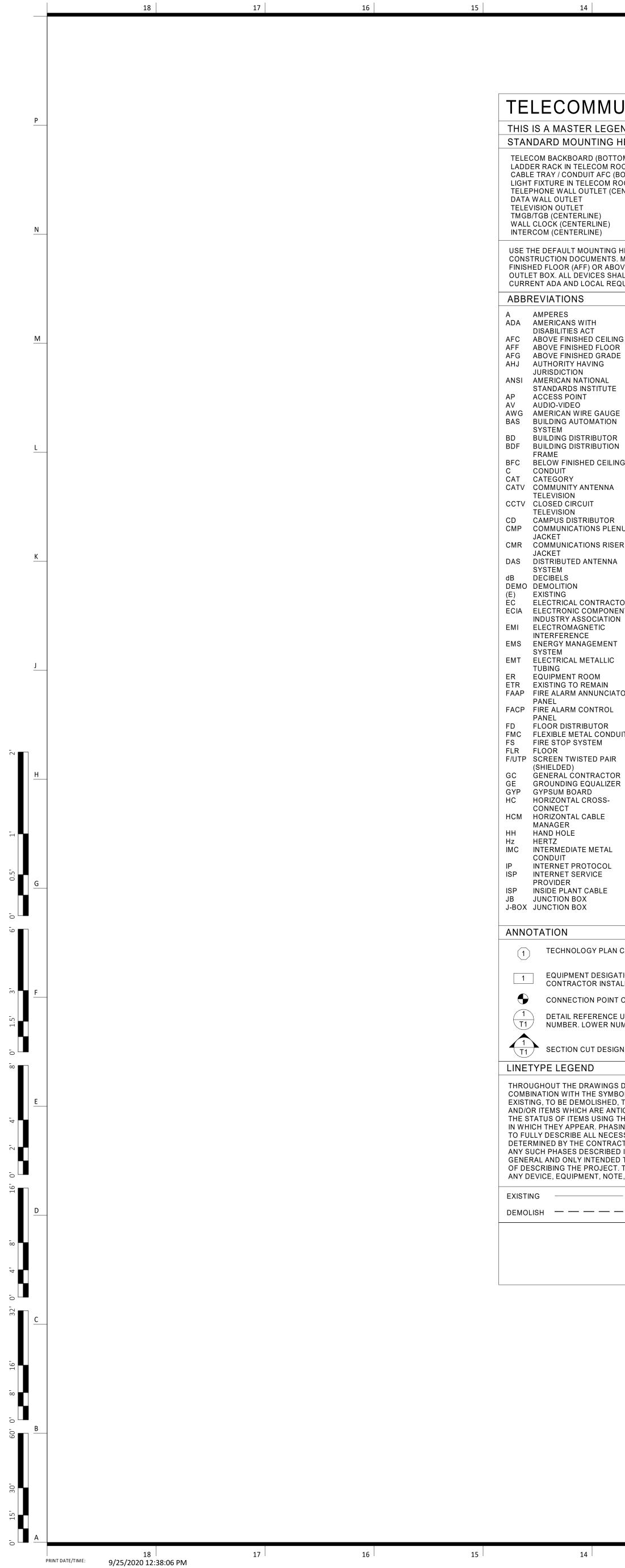


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JNICATIONS SYMB ND AND NOT ALL SYMBOLS OR ABBF HEIGHTS		USED.	TELECOMMUNICATIONS OUTLETS				V2.00 GENERAL NEW WORK NOTES
OM OF BACKBOARD) 4" DOMS (BOTTOM OF DEVICE) 90"	W"xH	WIRE MESH CABLE TRAY (W"=WIDTH, "H"=HEIGHT)					1. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF
OTTOM OF PATHWAY) 3"(MIN) DOMS (BOTTOM OF DEVICE) 108"(MIN) ENTERLINE) 48"	"	VERTICAL CABLE TRAY	SYMBOLDESCRIPTIONTelevELEVATOR PHONE OUTLET - ANALOG	CABLE(S)DETAIL18/W-TN500			WORK AND ALL SUBCONTRACTORS.
SAME AS ADJACENT DEVICE, UNO REFER TO ARCH DRAWINGS	(#) D"	UNDERGROUND CONDUIT ("#"=QUANTITY, "D"=CONDUIT DIAMETER)	✓ 2D DATA WALL OUTLET	1 2,4,6/W-TN500			2. ALL WORK SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS (DIVISION 26, DIVISION 27, DIVISION 28, ETC.) AND THE CUSTOMER PRE-ESTABLISHED STRUCTURED CABLING STANDARDS; SHOULD
84" 84" 48"	(#) D"	CONDUIT ("#"=QUANTITY, "D"=CONDUIT DIAMETER)	OptimizedDATA CEILING OUTLET - WIRELESS ACCESS POINT ✓ ETRDATA WALL OUTLET - EXISTING TO	2 3,4/W-TN500 2 2,4,6/W-TN500			DIFFERENCES EXIST IN THE SPECIFICATIONS RELATING TO TECHNOLOGY AND THE CLIENT'S PRE-ESTABLISHED STANDARDS THE CONTRACTOR SHALL CONTACT THE LOW VOLTAGE ENGINEER FOR
HEIGHTS SHOWN ABOVE UNO IN THE MOUNTING HEIGHTS LISTED ARE ABOVE	+	CABLE SUPPORTS OR J-HOOKS CONDUIT SLEEVE	- WAP,ETR DATA CEILING OUTLET - EXISTING TO REMAIN	1 3,4/W-TN500			3. FULLY COORDINATE ALL CABLE TRAY, FIRE STOP CONDUITS /
VE FINISHED GRADE (AFG) TO BOTTOM OF ALL BE INSTALLED IN COMPLIANCE WITH QUIREMENTS.	(#) D"	("#"=QUANTITY, "D"=CONDUIT DIAMETER)	TELECOMMUNICATIONS RESPONSIBILIT	Y MATRIX Furnish	Install		SLEEVES, AND CONDUIT ROUTING WITH STRUCTURAL ELEMENTS. COORDINATE CABLE TRAY AND CONDUIT INSTALLATIONS WITH ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR,
	PBL"XW"XH"	PULL BOX					AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. ROUTING IN CONCRETE SLAB OR UNDER SLAB (WHERE CONDUIT WOULD BE ON GRADE) REQUIRES THE USE OF WET LOCATION RATED CABLES.
LAN LOCAL AREA NETWORK LCC LIMITED COMBUSTIBLE CABLE LEC LOCAL EXCHANGE CARRIER	SC	("L"=LENGTH, "W"=WIDTH, "H"=HEIGHT) SPLICE	Description	Construction Team Owner	Construction Team Owner	Comments	 ALL TELECOMMUNICATIONS CONTINUOUS PATHWAYS SHALL BE BONDED TO THE TELECOMMUNICATIONS BONDING BACKBONE; FOR
G LED LIGHT-EMITTING DIODE LF LINEAR FEET MAN METROPOLITAN AREA		AMS FIBER OPTIC CROSS CONNECT - DETAIL 5/W-TN500					CONDUITS, INSULATION BUSHINGS SHALL BE USED AT THE END OF THE CONDUIT THE FARTHEST AWAY FROM THE SERVING TR; A BONDING BUSHING SHALL BE USED AT THE END CLOSEST TO THE
MATV MASTER ANTENNA TELEVISION		COPPER UTP CROSS CONNECT	General Communications Grounding and Bonding	X	X		SERVING TR. CONTRACTOR TO REFER TO THE ANSI-STD-J 607 STANDARD FOR ADDITIONAL INFORMATION AS TO THE INSTALLATION OF THE TELECOMMUNICATIONS BONDING BACKBONE.
MC MAIN CROSS-CONNECT MDF MAIN DISTRIBUTION FRAME MFR MANUFACTURER		110-TYPE PROTECTOR BLOCK	Hangers and Supports Conduits and Backboxes Surface Raceways	X X X X X X X X X X X X X X X X X X X	X		5. ALL FIRE RATED WALL / FLOOR ASSEMBLIES PENETRATED FOR TELECOMMUNICATIONS CABLING PATHWAYS SHALL BE FIRE STOPPED
MH MAINTENANCE HOLE MM MULTIMODE MPOE MAIN POINT OF ENTRANCE	PATCH PANEL	PATCH PANEL - DETAIL 7/W-TN500	Underground pathways for utility entrance and floor boxes Firestops, Conduit Sleeves, and Sleeve Seals	X X	X X X		WITH THE APPROVED FIRE STOP SYSTEMS (F/S). ALL FIRESTOP SYSTEMS SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER
MPOP MAIN POINT OF PRESENCE MTD MOUNTED	TGB	TELECOM GROUND BAR (TGB) - DETAIL 9/W-TN500	Structured Cabling Telecom Room Cabinets, Racks, Frames, and Enclosures Telecom Room Buildout (ex. backboard and ladder rack)	X	X		AND AS SPECIFIED IN DIVISION 07 07 84 00 - "FIRESTOPPING". FIRE STOP ASSEMBLY LOCATIONS ARE TO BE COORDINATED WITH CABLE TRAY PATHWAY TO TELECOMMUNICATIONS ROOM.
G N/A NOT APPLICABLE G NEC NATIONAL ELECTRICAL CODE NFPA NATIONAL FIRE PROTECTION	TMGB	TELECOM MAIN GROUND BAR (TMGB)	Optical Fiber Backbone Cable and Connectivity Copper Backbone Cable and Connectivity	X X X			6. BACK BOXES AND CONDUIT LOCATIONS IN PRECAST CONCRETE WALLS SHALL BE COORDINATED WITH ARCHITECT, STRUCTURAL
ASSOCATION NIC NOT IN CONTRACT nm NANOMETER		TELECOMMUNICATIONS BACKBONE CABLING	Copper Horizontal Cable and Connectivity Data Communications Router / Firewall	X X	X		ENGINEER, AND GC PRIOR TO ORDERING THE PRECAST WALLS. 7. ROUTING OF CABLES SHALL BE CONCEALED. CABLES SHALL BE
NRTL NATIONALLY RECOGNIZED TESTING LAB OC ON CENTER			Core Switch / Edge Switch Wireless Access Points	X X X	X X		ROUTED IN CONDUIT IN EXPOSED AREAS. MINIMIZE AMOUNT OF EXPOSED CONDUIT BY EMBEDDING CONDUIT IN SLAB WHEN POSSIBLE. EMBEDDED CONDUITS AND PENETRATIONS OF
IUM OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION R OSP OUTSIDE PLANT		LADDER RACK	Servers / Storage and Backup Laptops / Desktops / Copiers / Printers / Scanners Software	X X X	X X		STRUCTURE SHALL FOLLOW DETAILS IN STRUCTURAL DRAWINGS. WHEN CONDUITS CAN ONLY BE INSTALLED EXPOSED, NOTIFY ARCHITECT PRIOR TO START OF INSTALLATION OF CONDUITS. CABLES
PBX PRIVATE BRANCH EXCHANGE POE POWER OVER ETHERNET PON PASSIVE OPTICAL NETWORK	TMGB	TELECOM MAIN GROUND BAR (TMGB) - WALL ELEVATION VIEW	Voice Communications VoIP Gateway / Analog handsets	X	X X		SHALL BE ROUTED IN CONDUIT WHEN ABOVE HARD CEILINGS. CONDUITS FOR ELEVATOR PHONES AND FIRE ALARM CONTROL PANEL SHALL BE CONTINUOUS (HOMERUN) FROM THE
POTS PLAIN OLD TELEPHONE SERVICE PSTN PUBLIC SWITCHED	TGB	TELECOM GROUND BAR (TGB) - WALL ELEVATION VIEW	VoIP handset wall mount kit VoIP handsets VoIP Network licensing	X X X	X X X X X X X X X X X X X X X X X X X		TELECOMMUNICATIONS ROOM TO THE APPLICABLE BOX / CABINET. CONTRACTOR SHALL SIZE AND PROVIDE CONDUITS TO MEET TIA-569.
OR TELEPHONE NETWORK NTS QTY QUANTITY I RCDD REGISTERED COMMUNICATIONS		TMGB/TGB - PLAN VIEW					8. TELECOMMUNICATIONS ROOMS SHALL BE DEDICATED FOR INFORMATION TECHNOLOGY USE (I.E. NO SHARED SPACE WITH A JANITOR, FIRE ALARM SYSTEM, ETC.) NO SERVICES SHALL PASS
DISTRIBUTION DESIGNER RMC RIGID METAL CONDUIT		TELECOM BACKBOARD					THROUGH THE SPACE UNLESS DEDICATED TO THE SPACE (NO PLUMBING, MECHANICAL, ELECTRICAL, FIRE, ETC.)
RU RACK UNIT SCS STRUCTURED CABLING SYSTEM SF SQUARE FEET		TWO-POST EQUIPMENT RACK					
OR SPECS SPECIFICATIONS TBB TELECOMMUNICATIONS		FOUR-POST EQUIPMENT RACK					
TBD TO BE DETERMINED TIA TELECOMMUNICATIONS		EQUIPMENT CABINET (REFER TO PLAN NOTES ON					GENERAL DEMOLITION NOTES 1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY
IIT INDUSTRY ASSOCIATION TGB TELECOMMUNICATIONS		ENLARGED PLANS FOR MORE INFORMATION)					ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY, INCLUDING PATHWAY LOCATIONS AND ELEVATIONS. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL
GROUND BUS BAR TMGB TELECOMMUNICATIONS MAIN GROUND BUS BAR							REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS, INCLUDING ALL DEMOLITION AND NEW WORK DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER,
TR TELECOMMUNICATIONS ROOM TYP TYPICAL UNO UNLESS NOTED OTHERWISE							 AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES. 2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND
UL UNDERWRITER LABORATORIES, INC. UPS UNINTERRUPTIBLE POWER							SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES
SUPPLY U/UTP UNSHIELDED TWISTED PAIR V VOLT(S)							AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.3. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN
VCM VERTICAL CABLE MANAGER W WIRE WAN WIDE AREA NETWORK							FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO OWNER.
WAO WORK AREA OUTLET WAP WIRELESS ACCESS POINT WP WEATHER PROOF							4. REMOVE ALL PATHWAYS, CABLING AND ASSOCIATED DEVICES FOR ALL ITEMS INTENDED TO BE REMOVED. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
WR WEATHER RESISTANT WT WATERTIGHT XP EXPLOSION-PROOF							5. REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE THE GENERAL DEMOLITION SCOPE. ANY SYSTEMS PASSING THROUGH THE
	_						SPACE INTENDED TO REMAIN IN SERVICE SHALL BE PROTECTED, OR RELOCATED AS REQUIRED TO MAINTAIN SERVICE AND ACCOMMODATE THE GENERAL DEMOLITION AND NEW SCOPE OF
CALLOUT							WORK.6. REFER TO ARCHITECTURAL PLANS FOR SCOPE OF AREAS THAT ARE
TION (OWNER FURNISHED, LLED)							TO BE DEMOLISHED UNDER THIS PHASE OF CONSTRUCTION. NOTE THAT IN SOME CASES, MEPFT DEMOLITION WORK EXTENDS BEYOND SCOPE OF AREA IDENTIFIED DUE TO EXISTING SYSTEM DESIGN.
OF NEW WORK TO EXISTING UPPER NUMBER INDICATES DETAIL							NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO STARTING WORK.
IMBER INDICATES SHEET NUMBER							7. COORDINATE THE INTERMEDIATE STORAGE, REMOVAL AND FINAL DISPOSITION OF TELECOMMUNICATIONS SCS COMPONENTS (PATHWAYS, CABLE, TERMINATION COMPONENTS, ETC) AND THE
NATION	_						REQUIRED PROTECTION OF EXISTING SPECIAL SYSTEMS EQUIPMENT WITH OWNER PRIOR TO IMPLEMENTATION THAT ARE TO BE REMOVED AS A RESULT OF THE DEMOLITION / RENOVATION WORK.
DIFFERENT LINE-TYPES ARE USED IN OLS TO INDICATE THE STATUS OF ITEMS AS	-						 8. EXISTING TELECOMMUNICATIONS CABLES AND COMPONENTS THAT PASS THROUGH THE CONSTRUCTION ZONE SHALL BE PROTECTED
TO BE INCLUDED AS PART OF THE NEW WORK ICIPATED TO BE PROVIDED IN THE FUTURE. THESE LINETYPES ARE RELATIVE TO THE VIEW							AND REMAIN IN PLACE SO AS TO MAINTAIN SERVICE WHILE ALSO ACCOMMODATING THE GENERAL DEMOLITION AND NEW SCOPE OF WORK. CONTRACTOR SHALL COORDINATE ALL SUCH EFFORTS WITH
ING SHOWN IN DRAWINGS IS NOT INTENDED SSARY CONSTRUCTION PHASING, WHICH IS CTOR AS PART OF THEIR RESPONSIBILITIES.							THE CLIENT PRIOR TO IMPLEMENTATION. DAMAGE TO EXISTING AND TO REMAIN IN PLACE TELECOMMUNICATIONS CABLES AND COMPONENTS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IN
N THE CONSTRUCTION DOCUMENTS ARE TO INDICATE A BROAD ORDER FOR THE SAKE							A TIMELY MANNER AND TO THE WRITTEN SATISFACTION OF THE CLIENT AND AT NO ADDITIONAL COST TO THE CLIENT. CONTRACTOR SHALL PROVIDE CABLE SUPPORTS FOR ANY EXISTING CABLES THAT
THE FOLLOWING LINETYPES MAY BE USED ON E, LINE, SHAPE, ETC.	_						ARE NOT PROPERLY SUPPORTED.
- NEW							
	-						

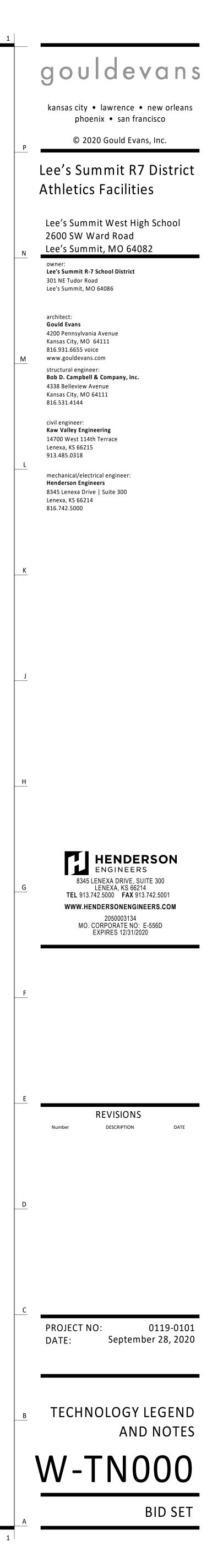
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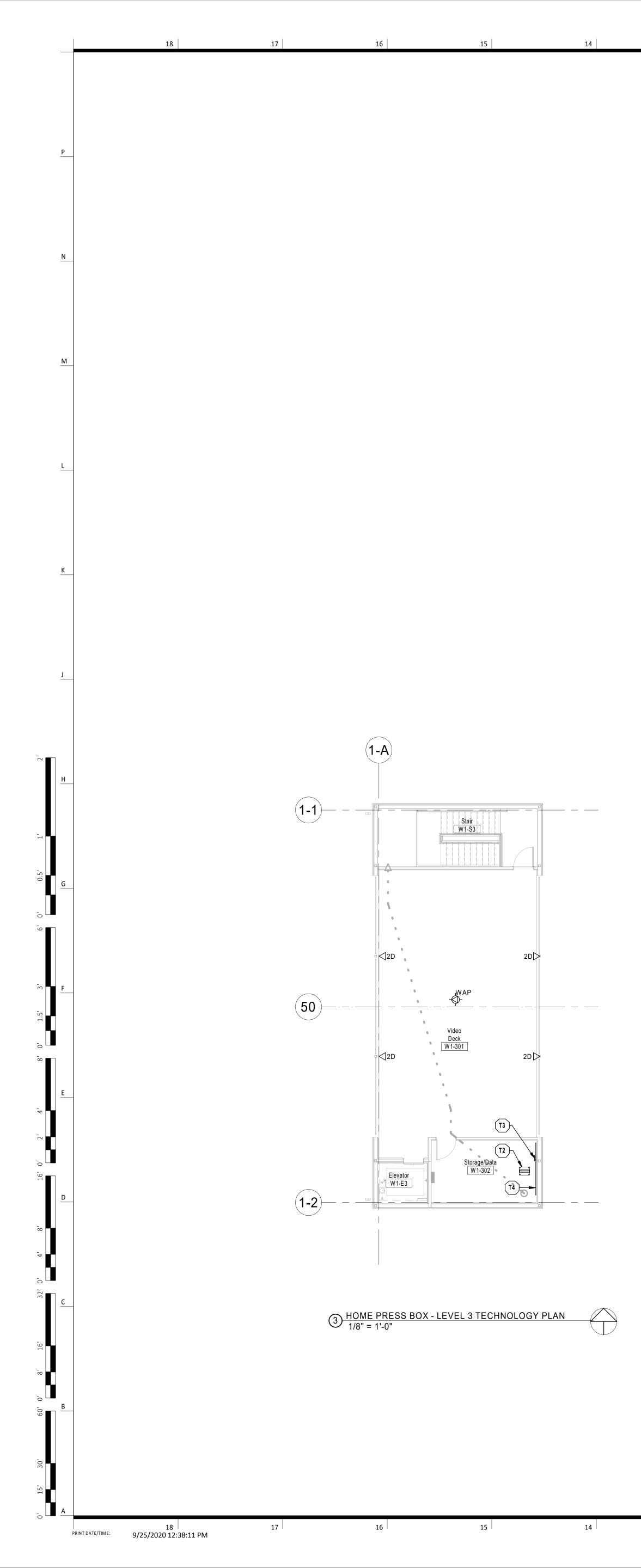
GENERAL DEMOLITION NOTES	

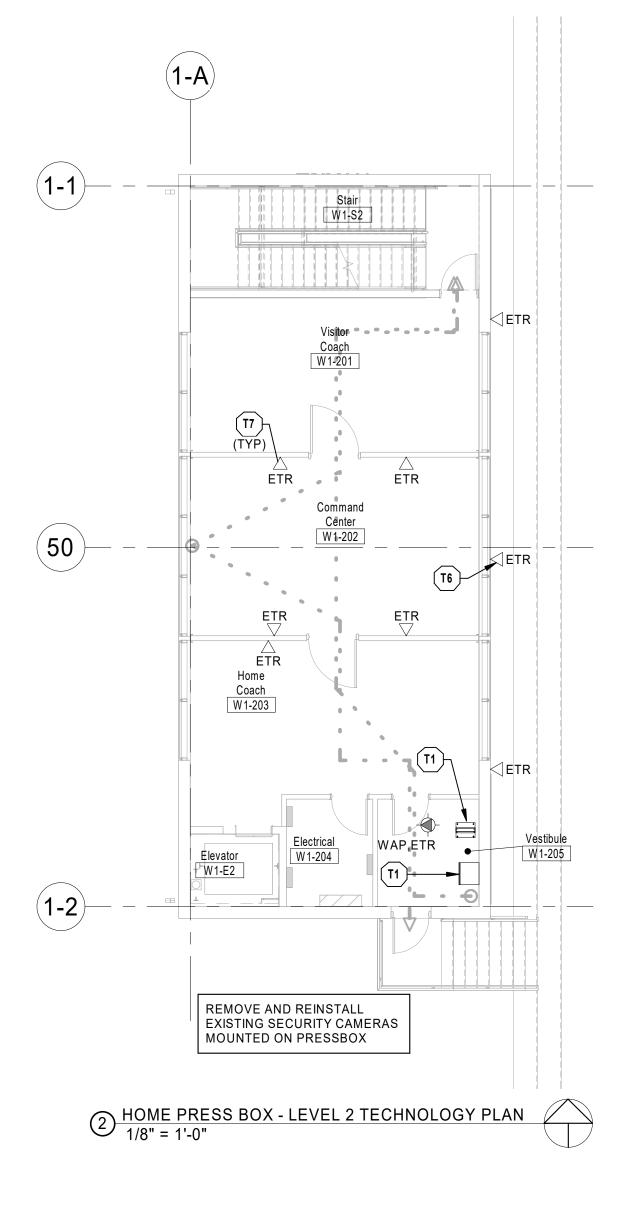
GEN	ERAL DEMOLITION NOTES
1.	PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE FACILITY, INCLUDING PATHWAY LOCATIONS AND ELEVATIONS. REVIEW THE GENERAL NOTES AND ALL OTHER TRADE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS, INCLUDING ALL DEMOLITION AND NEW WORK DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR OWNER, AS SPECIFIED, OF ANY CONFLICTS OR DISCREPANCIES.
2.	EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3.	AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO OWNER.
4.	REMOVE ALL PATHWAYS, CABLING AND ASSOCIATED DEVICES FOR ALL ITEMS INTENDED TO BE REMOVED. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
5.	REMOVE EXISTING ITEMS AS REQUIRED TO ACCOMMODATE THE GENERAL DEMOLITION SCOPE. ANY SYSTEMS PASSING THROUGH THE SPACE INTENDED TO REMAIN IN SERVICE SHALL BE PROTECTED, OR RELOCATED AS REQUIRED TO MAINTAIN SERVICE AND ACCOMMODATE THE GENERAL DEMOLITION AND NEW SCOPE OF WORK.
6.	REFER TO ARCHITECTURAL PLANS FOR SCOPE OF AREAS THAT ARE TO BE DEMOLISHED UNDER THIS PHASE OF CONSTRUCTION. NOTE THAT IN SOME CASES, MEPFT DEMOLITION WORK EXTENDS BEYOND SCOPE OF AREA IDENTIFIED DUE TO EXISTING SYSTEM DESIGN. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO STARTING WORK.
7.	COORDINATE THE INTERMEDIATE STORAGE, REMOVAL AND FINAL DISPOSITION OF TELECOMMUNICATIONS SCS COMPONENTS (PATHWAYS, CABLE, TERMINATION COMPONENTS, ETC) AND THE REQUIRED PROTECTION OF EXISTING SPECIAL SYSTEMS EQUIPMENT WITH OWNER PRIOR TO IMPLEMENTATION THAT ARE TO BE REMOVED AS A RESULT OF THE DEMOLITION / RENOVATION WORK.
8.	EXISTING TELECOMMUNICATIONS CABLES AND COMPONENTS THAT PASS THROUGH THE CONSTRUCTION ZONE SHALL BE PROTECTED AND REMAIN IN PLACE SO AS TO MAINTAIN SERVICE WHILE ALSO ACCOMMODATING THE GENERAL DEMOLITION AND NEW SCOPE OF WORK. CONTRACTOR SHALL COORDINATE ALL SUCH EFFORTS WITH THE CLIENT PRIOR TO IMPLEMENTATION. DAMAGE TO EXISTING AND TO REMAIN IN PLACE TELECOMMUNICATIONS CABLES AND COMPONENTS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IN A TIMELY MANNER AND TO THE WRITTEN SATISFACTION OF THE CLIENT AND AT NO ADDITIONAL COST TO THE CLIENT. CONTRACTOR SHALL PROVIDE CABLE SUPPORTS FOR ANY EXISTING CABLES THAT ARE NOT PROPERLY SUPPORTED.

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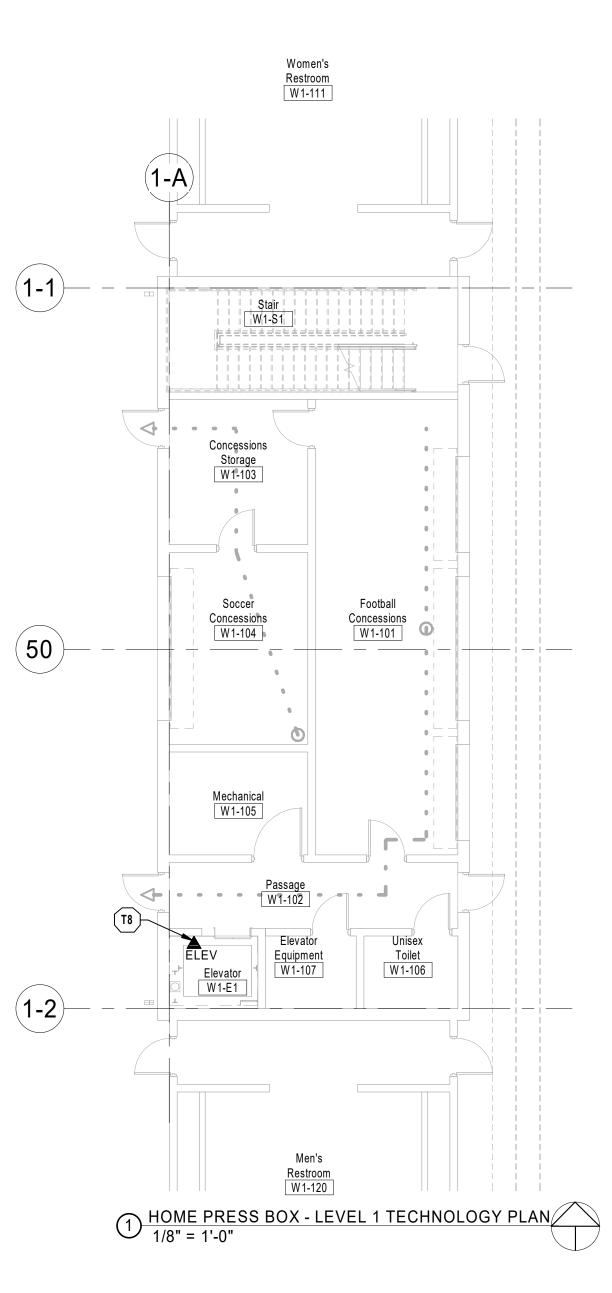
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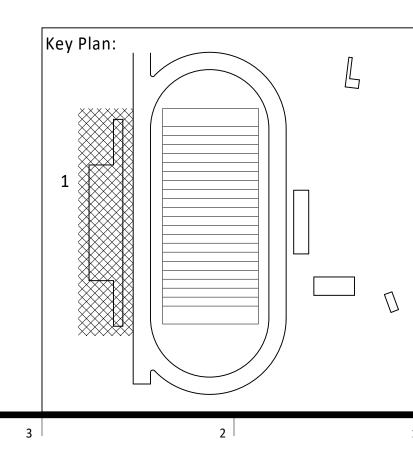
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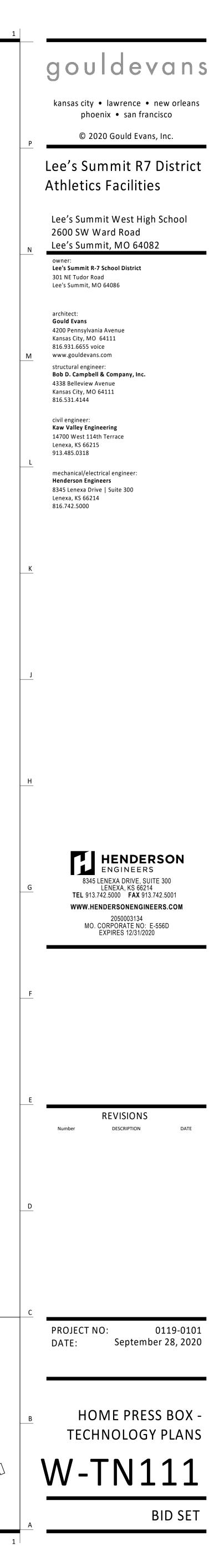
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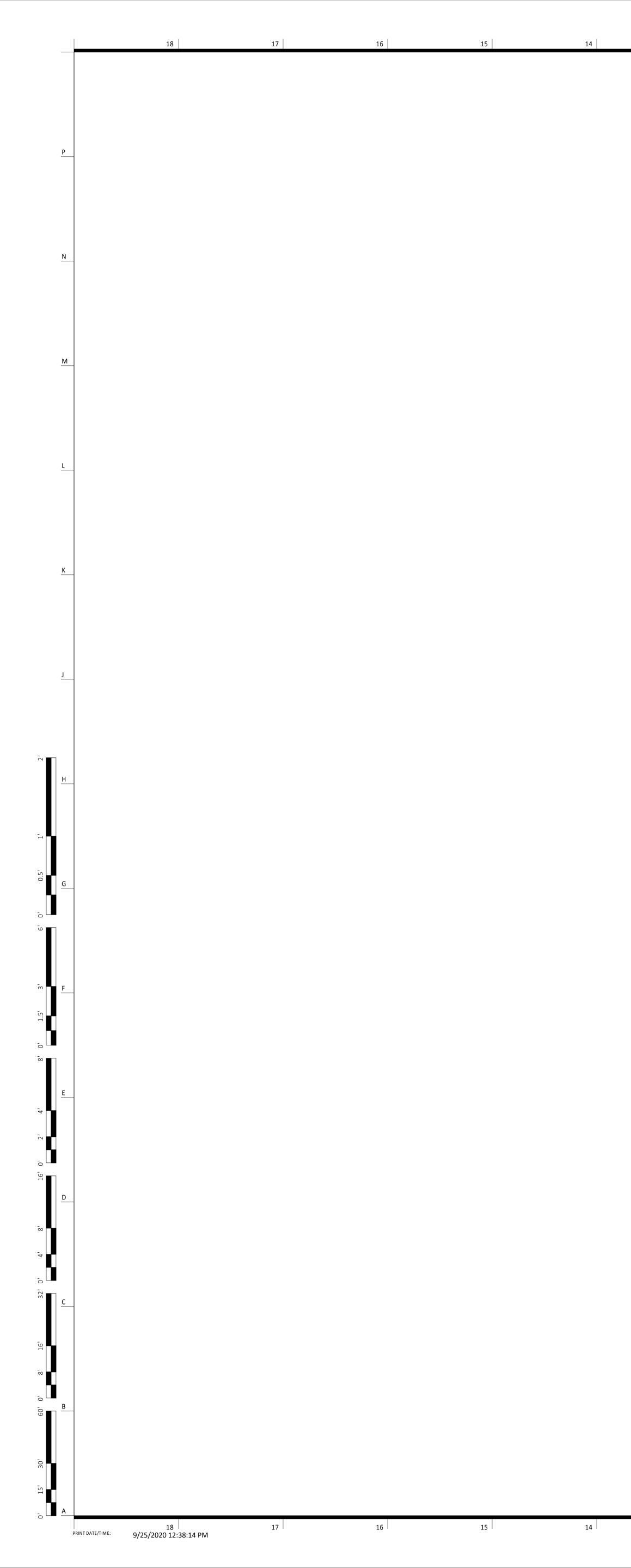
- **TECHNOLOGY PLAN NOTES:**
- T1 EXISTING RACK TO BE RELOCATED. CONTRACTOR TO PROVIDE OWNER 7 DAYS NOTICE FOR RACK REMOVAL FOR OWNER TO REMOVE FROM CONSTRUCTION AREA AND PROTECT RACK.
- T2 NEW LOCATION FOR INSTALLATION OF EXISTING RACK AFTER CAMERA DECK ERECTION IS COMPLETE. PULL NEW 6 STRANDS OF SINGLE MODE FIBER CABLING FROM LSW MAIN TELECOM ROOM. COORDINATE LOCATION AND PATHWAY WITH OWNER.
- T3 TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0"AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION. T4 TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" FIRE RATED PLYWOOD BACKBOARD (UNPAINTED) AT LEAST 4'-0"X4'-0" MOUNTED ON WALL BEHIND RACK AS SHOWN ON PLANS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS DIVISION 27
- SPECIFICATIONS FOR ADDITIONAL INFORMATION. T6 EXISTING HUDL CAMERA TO REMAIN. T7 DATA OUTLET EXISTING TO REMAIN. PROVIDE NEW CABLING RUN TO RELOCATED RACK IN STORAGE/DATA W1-302.
- T8 ELEVATOR PHONE OUTLET. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR PROVIDER.



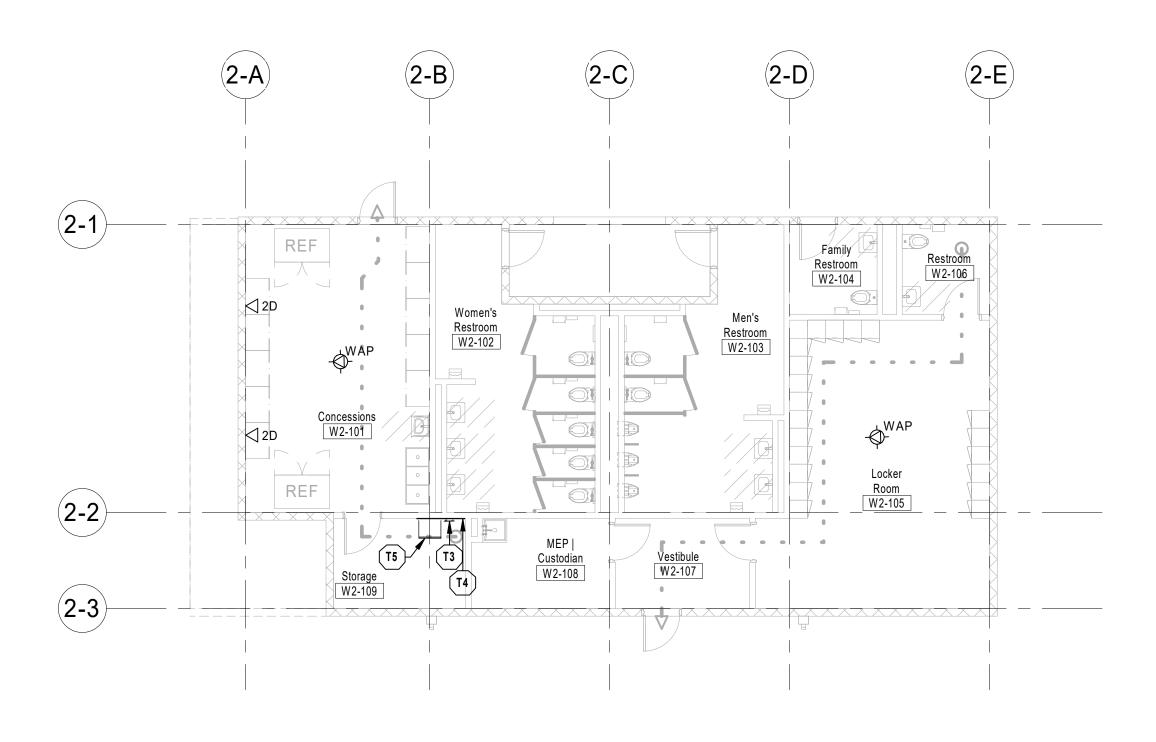


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1 VISITOR RESTROOMS/CONCESSIONS - TECHNOLOGY PLAN

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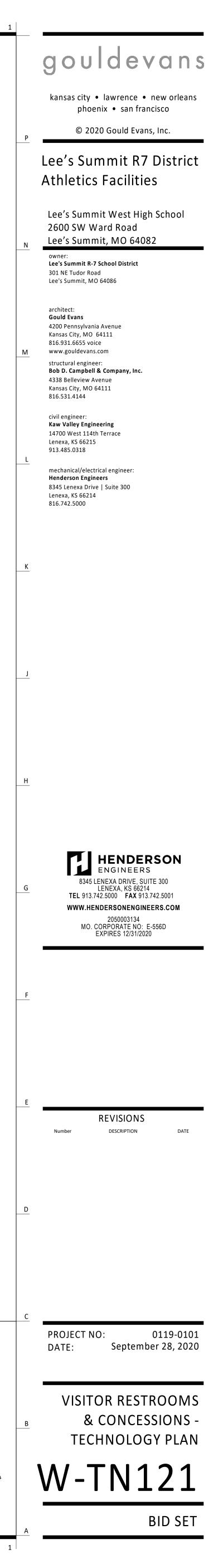
- **TECHNOLOGY PLAN NOTES:**
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- RATED PLYWOOD BACKBOARD (UNPAINTED) AT LEAST 4'-0"X4'-0" MOUNTED ON WALL BEHIND RACK AS SHOWN ON PLANS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T5 NEW WALL MOUNTED RACK. MOUNT ON TELECOMMUNICATIONS BACKBOARD. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

Key Plan: 6 3

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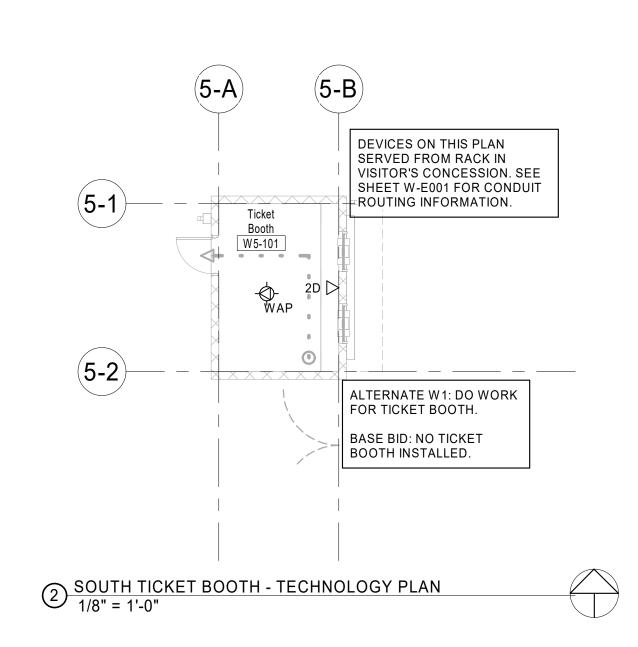
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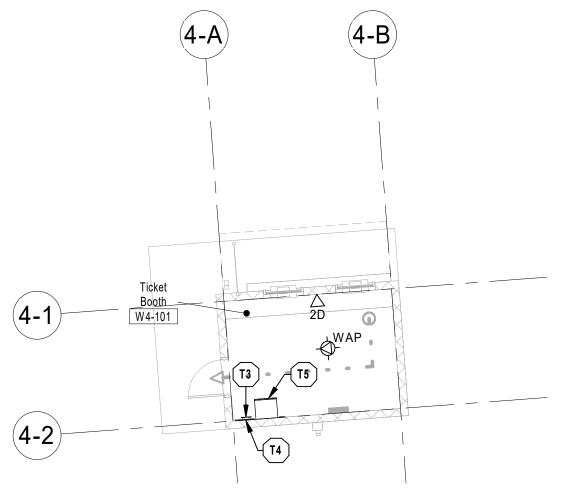
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13	12	11	10	9	8





 $1 \frac{\text{NORTH TICKET BOOTH - TECHNOLOGY PLAN}}{1/8" = 1'-0"}$

8

7	6	5	4	3	2	

- **TECHNOLOGY PLAN NOTES:**
- T3 TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) MOUNTED AT 7'-0"AFF. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION. T4 TELECOMMUNICATIONS BACKBOARD. GRADE A/C 3/4" FIRE
- RATED PLYWOOD BACKBOARD (UNPAINTED) AT LEAST 4'-0"X4'-0" MOUNTED ON WALL BÈHIND RACK AS SHOWN ON PLANS. THE A SIDE SHALL BE EXPOSED TO THE INTERIOR OF THE ROOM AND THE C SIDE PLACED AGAINST THE BUILDING STRUCTURE. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- T5 NEW WALL MOUNTED RACK. MOUNT ON TELECOMMUNICATIONS BACKBOARD. SEE TELECOMMUNICATIONS DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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5 |

Key Plan: 4 3

