

LEE'S SUMMIT MIDDLE SCHOOL #4

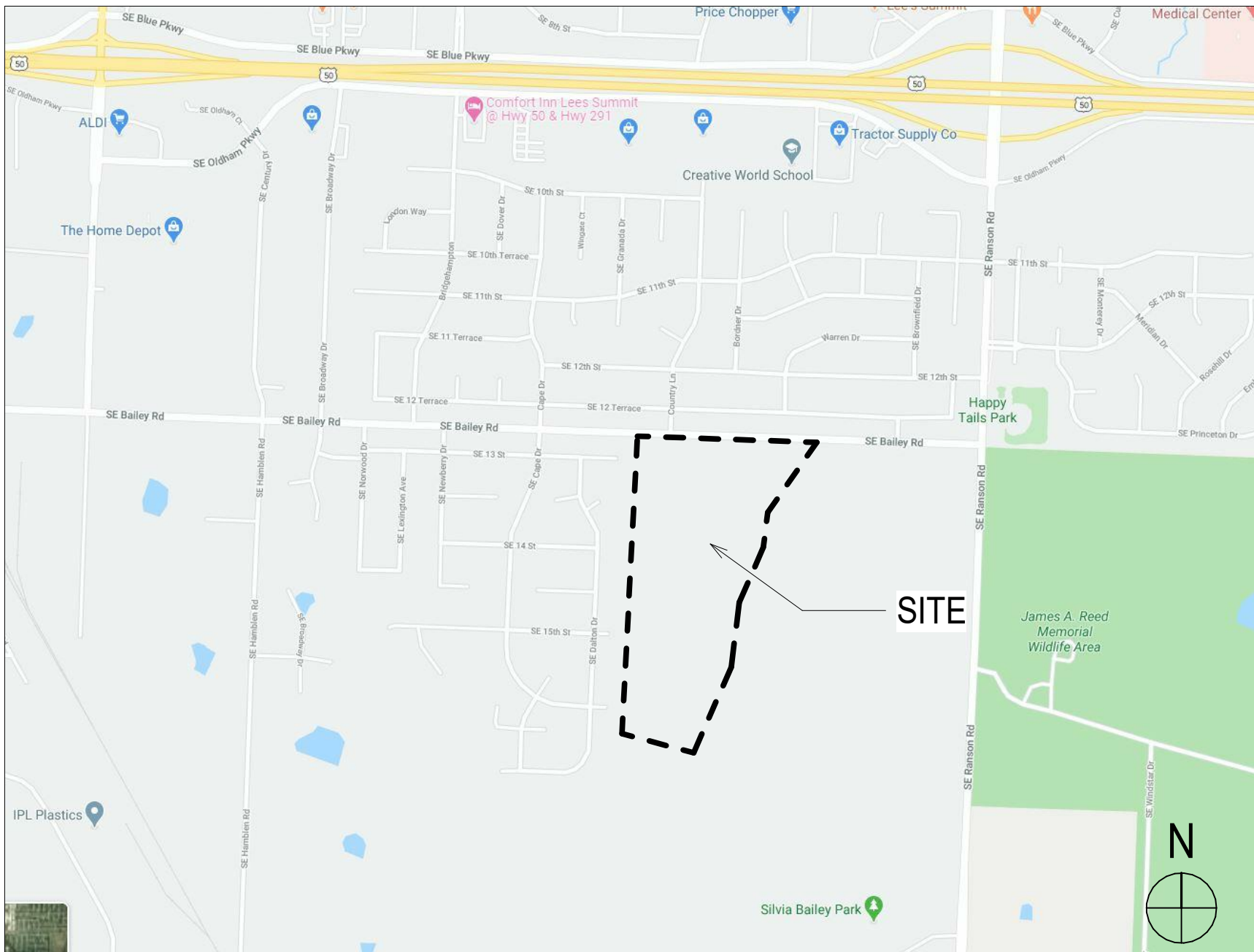
PACKAGE 2 - STRUCTURAL & SITE UTILITIES

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

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ISSUE FOR PERMIT - 08/28/2020

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** FOR REFERENCE ONLY, NOT FOR CONSTRUCTION, UNDER SEPARATE PERMIT

DESIGN TEAM:

OWNER:	ARCHITECT OF RECORD:	CIVIL ENGINEER:	LANDSCAPE ARCHITECT:	M.E.P. ENGINEER:	STRUCTURAL ENGINEER:	CONSTRUCTION MANAGER:
LEE'S SUMMIT R-7 SCHOOL DISTRICT 262 SE TRANSPORT DRIVE LEE'S SUMMIT, MO 64083 816.966.3415	DLR GROUP 7290 WEST 133RD ST OVERLAND PARK, KS 66213 913.897.7811	OLSSON 7301 WEST 133RD ST OVERLAND PARK, KS 66213 913.381.1170	DLR GROUP 7290 WEST 133RD ST OVERLAND PARK, KS 66213 913.897.7811	HENDERSON ENGINEERS 8435 LENEXA DRIVE SUITE 300 LENEXA, KS 66214 913.742.5000	DLR GROUP 7290 WEST 133RD ST OVERLAND PARK, KS 66213 913.897.7811	MCCOWINGORDON CONSTRUCTION 422 ADMIRAL BOULEVARD KANSAS CITY, MO 64106 816.877.0890

LEE'S SUMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DISTRICT

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

PACKAGE 2 -
STRUCTURAL & SITE UTILITIES

ISSUE FOR PERMIT
8/28/20
REVISIONS

13-20102-00

COVER SHEET

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# # @	NUMBER EXP AT	EXP EXT	EXPANSION EXTERIOR	NWC	NORMAL WEIGHT CONCRETE	VERT EXP	VERTICAL VESTIBULE
AB	ANCHOR BOLT	F	FABRIC	O to O	OUT TO OUT	VF	VINYL FLOOR
AB	AIR BARRIER	F.O.	FACE OF	OC	OVERALL	VOC	VOLITILE ORGANIC COMPOUND
ABS	ASBESTOS	F.V.	FIELD VERIFY	OFCl	OWNER FURNISHED CONTRACTOR INSTALLED	VOL	VOLUME
ACC	ADA ACCESSIBLE	FAB	FABRICATED(I)	OFCl	OFFICE	VT	VENEER PLASTER
ACR	ACRYLIC	FB	FACE BRICK	OPG(S)	OWNER FURNISHED OWNER INSTALLED	VWC	VINYL TILE
AD	ACCESS DOOR	FD	FLOOR DRAIN	OPP	OPENING(S)	W	VINYL WALL COVERING
ADA	AMERICANS WITH DISABILITY ACT	FDN	FOUNDATION	OSHA	OPPOSITE	W	WEST
ADON	ADDITION OR ADDITIONAL	FE	FIRE EXTINGUISHER	OTB	OPERATIONAL SAFETY AND HEALTH ADMINISTRATION	W	WIDE
ADJ	ADJUSTABLE	FEC	FIRE EXTINGUISHER CABINET	OVFL	OPEN TO BELOW	W/	WITH
ADJT	ADJACENT	FF	FINISH FLOOR	OVHD	OVERFLOW	W/O	WITHOUT
ADMIN	ADMINISTRATION	FH	FIRE HYDRANT		OVERHEAD	WB	WALL BASE
AEC	AUTOMATED EXTERNAL DEFIBRILLATORS	PHC	FIRE HOSE CABINET	P		WC	WATER CLOSET
AF	ABOVE FINISHED FLOOR	FIG	FIGURE	PAN B	PANIC BOLT	WC	WALL COVERING
AFG	ABOVE FINISHED GRADE	FIN	FINISHED	PAR	PARALLEL	WCL	WATER CLOSET/LAVATORY COMBINATION
AHJ	AUTHORITY HAVING JURISDICTION	FX	FIXTURE	PB	PARTICLE BOARD	WD	WOOD
AL	ALUMINUM	FL	FLOOR	PC	PRECAST CONCRETE	WDF	WOOD FLOORING
ALT	ALTERNATE	FLASH	FLASHING	PCD	PAPER CUP DISPENSER	WDW	WINDOW
ALUM	ALUMINUM	FLEX	FLEXIBLE	PCT	PORCELAIN CERAMIC TILE	WG	POLISHED WIRE GLASS
ANCH	ANCHOR	FLG	FLOORING	PD	PANIC DEVICE	WI	WROUGHT IRON
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FLM	FULL LENGTH MIRROR	PENT	PANIC DEVICE	WOM	WALK OFF MAT
AP	ACCESS PANEL	FLUOR	FLUORESCENT	PERF	PERFORATED	WR	WASTE RECEPTACLE
APPROX	APPROXIMATE	FO	FINISH OPENING	PERP	PERPENDICULAR	WRB	WEATHER RESISTANT BARRIER
ARCH	ARCHITECTURAL	FOC	FACE OF CONCRETE	PG	PATTERN GLASS	WW	WARM WHITE
ASPH	ASPHALT	FOF	FACE OF FINISH	PIC	PORTABLE INSTRUMENT CONNECTION	WWF	WELDED WIRE FABRIC
AUTO	AUTOMATIC	FOM	FACE OF MASONRY	PIG	PATTERN INSULATING GLASS	YD	YARD
AV	AVERAGE	FOS	FACE OF STUD	PL	PLATE		
AWP	ACOUSTIC WALL PANEL	FOW	FACE OF WALL	PL	PROPERTY LINE		
		FP	FIREPROOFING	PL	PLASTIC LAMINATE		
		FR	FIRE RESISTANT	PLAM	PLASTIC LAMINATE		
B.O.	BOTTOM OF	FRP	FIBERGLASS REINFORCED PANEL	PLBG	PLUMBING		
BOS	BABY CHANGING STATION	FRT	FIRE RESISTANCE TREATED	PLYWD	PLYWOOD		
BO	BOARD	FS	FLOOR SINK	PR	PAPER TOWEL DISPENSER		
BLDG	BUILDING	FSS	FOLDING SHOWER SEAT	PREFAB	PREFABRICATED		
BLK	BLOCK	FT	FEET	PROJ	PROJECT(OR) (ION)		
BLKG	BLOCKING	FTG	FOOTING	PS	PROJECTION SCREEN		
BLKHD	BULKHEAD	FUT	FUTURE	PT	POINT		
BM(S)	BEAM(S)	FVC	FIRE VALVE CABINET	PTD	PAPER TOWEL DISPENSER		
BOT	BOTTOM	FWC	FABRIC WALL COVERING	PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE		
BRDG	BRIDGING			PTN	PARTITION		
BRG	BEARING	G	GROUT	PVC	POLYVINYL CHLORIDE		
BRKT	BRACKET	GAL	GALLON	Q	GAUGE		
BSMT	BASEMENT	GALV	GALVANIZED	QT	QUARRY TILE		
BT	BATHTUB	GB	GRAB BAR	QTR RND	QUARTER ROUND		
BTWN	BETWEEN	GC	GENERAL CONTRACTOR	QTY	QUANTITY		
		GD	GARBAGE DISPOSAL				
C	CHANNEL	GEN	GENERAL	RAD	RADIUS		
CAB	CABINET	GFA	GROSS FLOOR AREA	RB	RUBBER BASE		
CANT	CANTILEVER	GL	GLUE LAMINATED	RC	REMOTE CONTROL		
CAP	CAPACITY	GL	GLASS	RCP	REFLECTED CEILING PLAN		
CBD	CHALKBOARD	GMP	GUARANTIED MAXIMUM PRICE	RD	ROOF DRAIN		
CER	CERAMIC	GOVT	GOVERNMENT	REF	REFERENCE		
CF	CUBIC FEET	GR	GUARD RAIL	REFL	REFLECTED		
CFCl	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	GR	GRADE	REM	REMOVABLE		
CFSF	COLD-FORMED STEEL FRAMING	GRS	GALVANIZED RIGID STEEL	RES(D)	REQUIRE(D)		
CG	CLEAR FLOAT GLASS	GWB	GYPUSUM WALL BOARD	RESL	RESILIENT		
CI	CAST IRON	GYP	GYPUSUM	REV	REVISION(S)		
CIG	CLEAR INSULATING GLASS			RF	RESILIENT FLOORING		
CIP	CAST IN PLACE	H	HEIGHT	RF	RUBBER FLOOR		
CJ	CONTROL JOINT	H	HOLLOW CORE	RFM	RECESSED FLOOR MAT		
CL	CONTROL JOINT ABOVE	HC	HAND DRYER	RH	ROBE HOOK		
CL	CENTER LINE	HDBD	HARDBOARD	RI&C	ROUGH IN AND CONNECT		
CLG	CEILING	HDR	HEADER	RM	ROOM		
CLOS	CLOSET	HDWD	HARDWOOD	RND	ROUND		
CLR	CLEAR	HDWR	HARDWARE				
CMU	CONCRETE MASONRY UNIT	HM	HOLLOW METAL	S	SOUTH		
COL	COLUMN	HORIZ	HORIZONTAL	S	SINK		
COM	COMMON	HR	HOUR	SAT	SPRAYED ACOUSTIC TREATMENT		
COMB	COMBINATION	HR	HANDRAIL	SAW	SOUND ABSORBING WALL UNITS		
COMM	COMMUNICATIONS	HS	HARDWARE SET	SB	SPLASH BLOCK		
COMP	COMPRESSION	HSS	HOLLOW STRUCTURAL SHAPE	SC	SOLID CORE		
CONC	CONCRETE	HVAC	HEATING VENTILATING AND AIR CONDITIONING	SCD	SHOWER CURTAIN		
CONF	CONFERENCE			SCD	SEAT COVER DISPENSER		
CONFG	CONFIGURATION	I&	THAT IS	SCH	SHOWER CURTAIN HOOK		
CONN(S)	CONNECTION(S)	I&W	IN ACCORDANCE WITH	SCHED	SCHEDULE		
CONST	CONSTRUCTION	IBC	INTERNATIONAL BUILDING CODE	SCR	SHOWER CURTAIN ROD		
CONT	CONTINUOUS	ID	INSIDE DIAMETER	SCT	STRUCTURAL CLAY TILE		
CONTR	CONTRACT(OR)	IF	INSIDE FACE	SD	SOAP DISPENSER		
CORR	CORRIDOR	IJ	ISOLATION JOINT	SECT	SECTION		
CP	COVER PLATE	IJS	IN JOIST SPACE	SECY	SECRETARY		
CPT	CARPET	IN	INCH	SG	SPANDREL GLASS		
CR	CHAIR RAIL	INC	INCLUDE(ING)	SGL	SINGLE		
CS	COUNTERSINK	INSUL	INSULATION	SH	SHOWER		
CSJT	CONSTRUCTION JOINT	INT	INTERIOR	SHM	SECURITY HOLLOW METAL		
CSWK	CASEWORK	JAN	JANITOR	SHT	SHEET		
CT	CERAMIC TILE	JCT	JUNCTION	SIM	SIMILAR		
CTG	CLEAR TEMPERED FLOAT GLASS	JCT	JUNCTION	SLNT	SEALANT		
CTIG	CLEAR TEMPERED INSULATING GLASS	JFB	JOINT FILLER BOARD	SLM	SHEET METAL		
CTR	CENTER	JST	JOIST	SND	SANITARY NAPKIN DISPOSAL		
CU	COPPER	JT	JOINT	SNV	SANITARY NAPKIN VENDOR		
CU	CUBIC			SPEC	SPECIFICATION(S)		
CU	COMBINATION UNIT	KCJ	KEYED CONSTRUCTION JOINT	SPL	SOUND PRESSURE LEVEL		
CV	CONDOM VENDOR	KD	KNOCKDOWN	SPL	SPECIAL		
CY	CUBIC YARD	KH	KITCHEN HOOD	SQ	SQUARE		
CYL	CYLINDER	KIT	KITCHEN	SS	STAINLESS STEEL		
				SS	SOLID SURFACE		
D	DEPTH	L	ANGLE	SSA	STORM SHELTER AREA		
DB	DECIBEL	LAB	LABORATORY	SSS	STAINLESS STEEL SHELF		
DBL	DOUBLE	LAM	LAMINATED	ST	STONE		
DC	DUST COLLECTOR	LAV	LAVATORY	ST	STAIR		
DEG	DEGREE	LB(S)	POUND(S)	STAGD	STAGGERED		
DEMO	DEMOLISH OR DEMOLITION	LBR	LUMBER	STC	SOUND TRANSMISSION CLASS		
DEPR	DEPRESSION(ION)ED	LDS	LOADING	STD	STANDARD		
DEPT	DEPARTMENT	LF	LINEAR FOOT	STGR	STRINGER		
DET	DETAIL	LG	LENGTH (LONG)	STL	STEEL		
DET	DETENTION	LG	LAMINATED GLASS	STOR	STORAGE		
DF	DRINKING FOUNTAIN	LIN	LINEAR	STRUCT	STRUCTURAL		
DG	DOOR GRILLE	LINO	LINOLEUM	SUBFL	SUBFLOOR		
DI	DIAMETER	LKR	LOCKER	SURF	SURFACE		
DIAG	DIAGONAL	LOC	LOCATION	SUSP	SUSPENDED		
DIM	DIMENSION	LONG	LONGITUDINAL	SV	SHEET VINYL		
DIV	SPECIFICATION DIVISION	LSC	LIFE SAFETY CODE	SYM	SYMETRICAL		
DN	DOWN	LTD	LIGHTING				
DPOF	DAMPPOFFING	LV	LOUVER	T	TREAD		
DR	DOOR	LVT	LUXURY VINYL TILE	T&G	TONGUE AND GROOVE		
DSN	DOWNSPOUT NOZZLE	LWC	LIGHT WEIGHT CONCRETE	T.O.	TOP OF		
DW	DRAWING(S)	M	THOUSAND	TAN	TANGENT		
DWG(S)	DRAWING(S)	MAG	MAGNETIC	TB	TOWEL BAR		
DWR	DRAWER	MAINT	MAINTENANCE	TBD	TACK BOARD		
		MAN	MANUAL	TOP	TOILET COMPARTMENT PARTITION		
E	EAST	MAN	MANUAL	TEMP	TEMPORARY		
EACH	EACH FACE	MAS	MASONRY	TER	TERRAZZO		
EA	EACH FACE	MATL	MATERIAL	TG	TINTED FLOAT GLASS		
EB	EXPANSION BOLT	MAX	MAXIMUM	TH	THRESHOLD		
EC	ELECTRICAL CONTRACTOR	MB	MOP BASIN	TI	TENANT IMPROVEMENT		
EE	EACH END	MBD	MARKER BOARD	TIG	TINTED INSULATING GLASS		
EEW	EMERGENCY EYE WASH	MBH	MOP/BROOM HOLDER	TMR	TILT MIRROR UNIT		
EEWS	EMERGENCY EYE WASH SHOWER	MC	MEDICINE CABINET	TOP	TOP OF PAVING		
EFF	EFFICIENCY	MECH	MECHANICAL	TRANS	TRANSVERSE		
EJ	EXPANSION JOINT	MEMB	MEMBRANE	TT	TERRAZZO TILE		
EL	ELEVATION	MEZZ	MEZZANINE	TTD	TOILET TISSUE DISPENSER		
ELAS	ELASTOMERIC	MFR	MANUFACTURER	TTG	TINTED TEMPERED FLOAT GLASS		
ELEC	ELECTRICAL	MH	MANHOLE	TTIG	TINTED TEMPERED INSULATING GLASS		
ELEV	ELEVATOR	MIN	MINIMUM	TW	TACK WALL		
EMER	EMERGENCY	MISC	MISCELLANEOUS	TYP	TYPICAL		
ENCL	ENCLOSURE	MRS	MIRROR WITH SHELF				
ENG	ENGINEER	MTD	MOUNTED	UL	UNDERWRITERS LABORATORIES		
ENTR	ENTRANCE	MTG	MOUNTING	UNEX	UNEXCAVATED		
EQ	EQUAL	MUL	MULLION	UNFIN	UNFINISHED		
EQUIP	EQUIPMENT	N	NORTH	UNO	UNLESS NOTED OTHERWISE		
EQUIV	EQUIVALENT	NA	NOT APPLICABLE	URNAL	URNAL		
EPF	EPOXY RESIN FLOORING	NC	NOISE CRITERIA	US	UTILITY SHELF		
EUI	ENERGY USE INTENSITY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UTIL	UTILITY		
EW	EACH WAY	NIC	NOT IN CONTRACT	VB	VAPOR BARRIER		
EW	ELECTRIC WATER COOLER	NOM	NOMINAL	VB	VINYL BASE		
EXIST	EXISTING	NTS	NOT TO SCALE	VCB	VENTED COVE BASE		

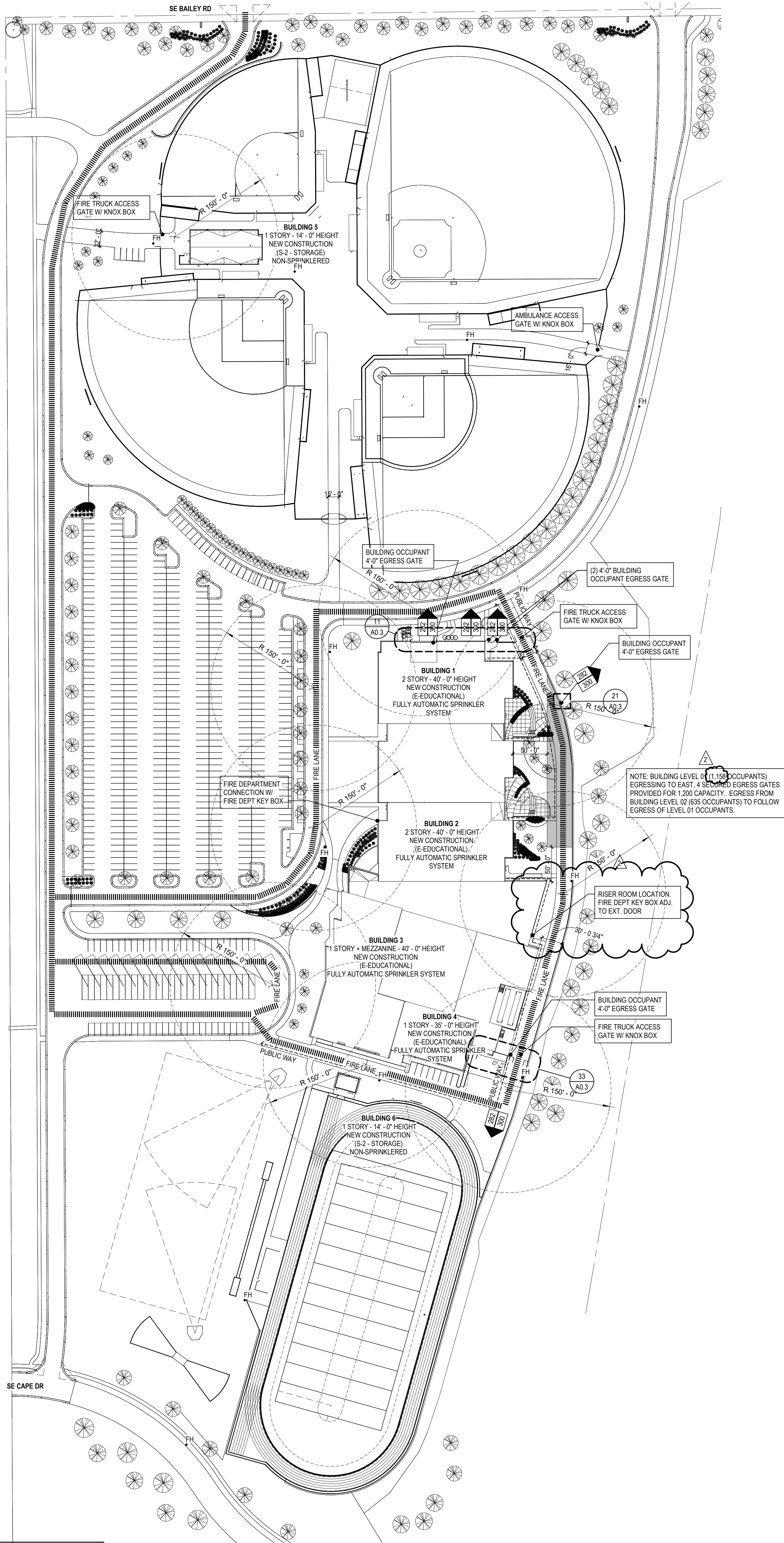
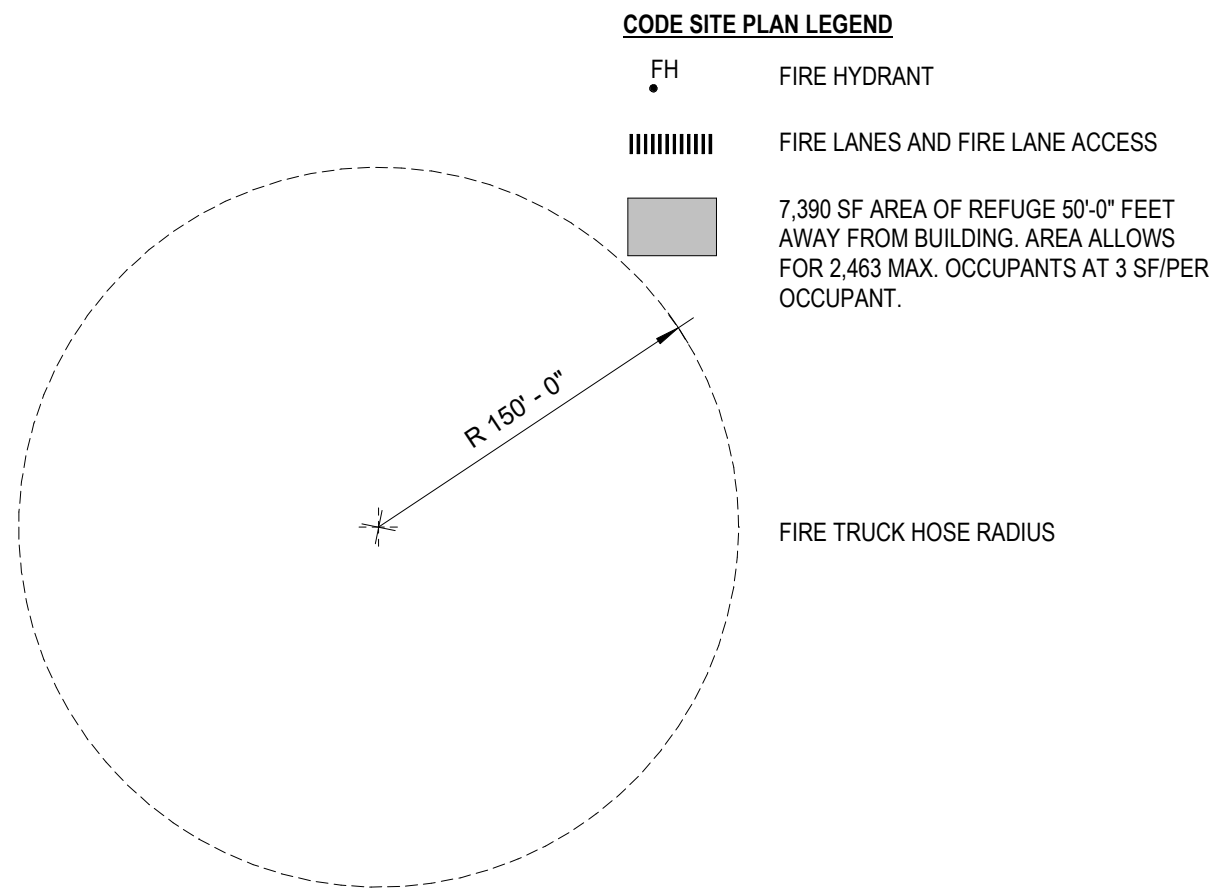
GENERAL SYMBOLS

	DETAIL NUMBER		EARTH
	CROSS REFERENCE		GRAVEL
	SHEET NUMBER		SAND
	SIMILAR OR TYPICAL REFERENCE		CONCRETE
	WALL SECTION		PRECAST CONCRETE
	BUILDING SECTION		STEEL
	BUILDING ELEVATION		GYM FLOOR
	INTERIOR ELEVATION		WOOD (CONTINUOUS BLOCKING)
	CASEWORK ELEVATION		WOOD (NON-CONTINUOUS BLOCKING)
	KEYNOTE		WOOD (TRIM/FINISH)
	COLUMN GRID LINE		GLASS
	ROOM NUMBER/NAME		SHINGLES
	DOOR NUMBER / INTERIOR WINDOW		CONCRETE MASONRY UNIT
	EXTERIOR WINDOW NUMBER		BRICK VENEER
	WALL TYPE		STEEL (LARGE SCALE)
	DESCRIPTION		PLYWOOD (LARGE SCALE)
	REVISION NUMBER		GYPUSUM WALL BOARD
	REVISION NUMBER		BATT INSULATION
	REVISION NUMBER		RIGID INSULATION
	REVISION NUMBER		SPRAY FOAM INSULATION
	REVISION NUMBER		FIRE SAFING INSULATION
	REVISION NUMBER		PROTECTION BOARD
	REVISION NUMBER		CARPET (LARGE SCALE)
	REVISION NUMBER		ACOUSTIC TILE (LARGE SCALE)
	REVISION NUMBER		TILE (LARGE SCALE)

SITE SYMBOLS

	PROPERTY LINE		AREA INLET
	LOT LINE		CURB INLET
	EASMENT LINE		MANHOLE
	BUILDING LINE, EXISTING		OBSERVATION RISER
	BUILDING LINE, NEW WINDOW OPENING AND STRUCTURAL STOOP		HEAD WALL
	PRIMARY CONTOUR, EXISTING		FLARED END
	PRIMARY CONTOUR, NEW		CLEAN OUT
	SECONDARY CONTOUR, EXISTING		CAP
	SECONDARY CONTOUR, NEW		THRUST BLOCK
	SLOPE, PAVEMENT		VALVE
	DRAINAGE DITCH OR SWALE		POST INDICATOR VALVE
	STREET CENTERLINE		REDUCER
	CURB, THICKENED EDGE		MAGNESIUM ANODE
	CURB, EXISTING		DIELECTRIC COUPLING
	CURB, NEW		CATHODIC TEST STATION
	PAVING CONTRACTION JOINT		FIRE HYDRANT
	PAVING KEYED CONSTRUCTION JOINT		POWER POLE
	PAVING TIED CONSTRUCTION JOINT		LIGHT POLE
	PAVING EXPANSION JOINT		TELEPHONE MANHOLE
	FENCE, SECURITY		TELEPHONE BOX
	FENCE, BARBED WIRE		SPRINKLER HEAD, 360°
	FENCE, CHAIN LINK		SPRINKLER HEAD, 270°
	FENCE, WOOD		SPRINKLER HEAD, 180°
	SEED LIMIT		SPRINKLER HEAD, 90°
	SOD LIMIT		QUICK COUPLING
	STORM DRAIN		TREE, EXISTING DECIDUOUS
	SUBDRAIN		TREE, EXISTING CONIFER
	SUBDRAIN, PERFORATED		SHADE TREE
	SANITARY SEWER		ORNAMENTAL TREE
	FORCE MAIN		DECIDUOUS TREE
	WATER		SHRUB
	FIRE		CLIPPED SHRUB
	GAS		
	HIGH PRESSURE STEAM		
	MEDIUM PRESSURE STEAM		
	LOW PRESSURE STEAM		
	UNDERGROUND ELECT/TELEPHONE		
	OVERHEAD POWER		
	LAWN SPRINKLER HOT LINE		
	LAWN SPRINKLER LATERAL		

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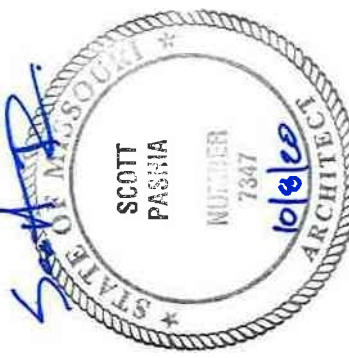
PACKAGE 3 - BUILDING & SITE

10/08/20	REVISIONS	
1	CITY REVIEW	11/3/20
2	ASH/03	12/2/20

13-20102-00

CODE ANALYSIS -
SITE PLAN

CP0.0



SYMBOL LEGEND

	- OCCUPANCY LOAD
	- ACCESSORY USE AREA (OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)
	- COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR - TOTAL EXIT CAPACITY OF DOOR OR STAIR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15 THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS: WIDTH IN INCHES DIVIDED BY 0.2 FOR SPRINKLERED PER 1005.3.1 EXCEPTION 1)
	- COMBINED OCCUPANT LOAD AT A GIVEN DOOR (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD) - TOTAL EXIT CAPACITY OF DOOR (THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS: CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15)
	- PANIC DEVICE
	XX MIN - DOOR FIRE RATING

WALL SEPARATION LEGEND

WALL HOURLY RATING	WALL FIRE RATING TYPE
0 = 0 HOUR	C = CORRIDOR
12 = 12 HOUR	EW = EXTERIOR WALL
1 = 1 HOUR	FB = FIRE BARRIER
2 = 2 HOUR	FP = FIRE PARTITION
3 = 3 HOUR	FSB = FIRE/SMOKE BARRIER
SP = SMOKE PARTITION	FW = FIRE WALL
SW = SMOKE WALL	HK = HORIZONTAL EXIT
	SB = SMOKE BARRIER
	VS = VERTICAL SHAFT
	VX = VERTICAL EXIT
	XP = EXIT PASSAGEWAY

TYPICAL DOOR WIDTHS

DOOR WIDTH	CLEAR WIDTH	IBC 1005.1 FACTOR	ALLOWABLE OCCUPANCY
36"	33"	0.15	220
42"	39"	0.15	260
48"	45"	0.15	300
PAIR 36"	64"	0.15	426
PAIR 42"	76"	0.15	506
PAIR 48"	88"	0.15	586

EXIT ACCESS STAIRWAYS:

- EXIT ACCESS STAIRWAYS AND RAMPS - TRAVEL DISTANCE ON EXIT ACCESS STAIRWAYS OR RAMPS SHALL BE INCLUDED IN THE EXIT ACCESS TRAVEL DISTANCE MEASUREMENT PER IBC 2018 1017.3.1.
- TWO-STORY OPENINGS - OPENINGS DO NOT CONNECT MORE THAN TWO STORIES PER IBC 712.1.9, EXCEPTION 1.
- EXIT ACCESS STAIRWAYS AND RAMPS SERVE ONLY TWO STORIES PER IBC 1019.3, EXCEPTION 1, AND DO NOT REQUIRE A SHAFT ENCLOSURE.

BUILDING 1:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.3 SINGLE OCCUPANCY, MULTI STORY BUILDING IBC 506.3 FRONTAGE INCREASE):

$$IF = .6$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [43,500 + (14,500 * .6)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 52, 200

ACTUAL AREA PER FLOOR:

LEVEL 01: 20,385 SF

LEVEL 02: 20,385 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"
ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 2:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

$$IF = .26$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [43,500 + (14,500 * .26)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 47, 270

ACTUAL AREA PER FLOOR:

LEVEL 01: 41,978 SF

LEVEL 02: 41,842 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"
ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 3:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58, 000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

$$IF = .67$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [58,000 + (14,500 * .67)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 67, 715

ACTUAL AREA PER FLOOR:

LEVEL 01: 61,768 SF

MEZZANINE AND EQUIPMENT PLATFORMS: 5,718 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"
ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 4:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

$$IF = .46$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [58,000 + (14,500 * .46)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 64,670

ACTUAL AREA PER FLOOR: LEVEL 01: 8,126 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"
ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 5:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):
***NONSEPARATED USE OCCUPANCY - ALLOWABLE AREA AND HEIGHT OF BUILDING BASED ON MOST RESTRICTIVE ALLOWANCES PER 508.3.2.**

$$IF = .4$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [26,000 + (26,000 * .4)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 4,829 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

BUILDING 6:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

$$IF = .4$$

$$Aa = [At + (NS * If)] * Sa$$

$$Aa = [26,000 + (26,000 * .4)]$$

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 740 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

PROJECT LOCATION:

1001 SE BAILEY ROAD
LEE'S SUMMIT, MO 64081

OWNER NAME:

LEE'S SUMMIT R-7 SCHOOL DISTRICT

OWNER CONTACT:

KYLE GORRELL, DIRECTOR LSR7 FACILITY SERVICES

OWNER ADDRESS:

DEPARTMENT OF LEE'S SUMMIT SCHOOL DISTRICT
FACILITY SERVICES
502 SE TRANSPORT DRIVE
LEE'S SUMMIT, MO 64081

COUNTY: JACKSON COUNTY

FIRE DEPARTMENT:

LEE'S SUMMIT FIRE DEPARTMENT

WATER SUPPLY:

LEE'S SUMMIT WATER UTILITIES

AUTHORITY HAVING JURISDICTION:

CITY OF LEE'S SUMMIT

ARCHITECT OF RECORD:

DLR GROUP
7290 WEST 133RD STREET, OVERLAND PARK, KS 66213

CODES/REGULATIONS:

BUILDING: 2018 IBC
FIRE: 2018 INTERNATIONAL FIRE CODE
MECHANICAL: 2018 INTERNATIONAL MECHANICAL CODE
PLUMBING: 2018 INTERNATIONAL PLUMBING CODE
ELECTRICAL: 2017 NATIONAL ELECTRICAL CODE
ACCESSIBLE STANDARD: ICC/ANSI A117.1-2017

NEW CONSTRUCTION:

OCCUPANCY:
EDUCATIONAL GROUP E (SECTION 305): INSTRUCTIONAL AREAS
CONSTRUCTION TYPE (SECTION 602): TYPE IIB
ALLOWABLE HEIGHT (PER IBC TABLE 504.3): 75' - 0"
ALLOWABLE NUMBER OF STORIES (PER TABLE 504.4): 3

SEPARATION REQUIREMENTS:

BUILDING SEPARATION
PER TABLE 706.4: 2-HOUR FIRE WALL
*a. IN TYPE II CONSTRUCTION, WALLS SHALL BE PERMITTED TO HAVE A 2-HOUR FIRE-RESISTANCE RATING

LIFE SAFETY

AUTOMATIC FIRE SUPPRESSION SYSTEM THROUGHOUT
FIRE ALARMS THROUGHOUT
FIRE EXTINGUISHERS THROUGHOUT
EMERGENCY LIGHTING
FIRE DEPARTMENT CONNECTIONS -SEE CIVIL AND PLUMBING PLANS
FIRE ALARM ANNUNCIATOR PANEL (FAAP) - AT RECEPTION D100A
FIRE ALARM CONTROL PANEL (FACP) - AT ELECTRICAL C116
SMOKE CONTROL SYSTEM: NOT APPLICABLE
MANUAL ALARMS
COMMUNICATIONS AND ELECTRICAL ROOMS: NO UPS PROVIDED, NO RACK OF BATTERIES PROVIDED.
PENETRATIONS THROUGH FLOORS (PIPING, CONDUIT, ETC.): ANNULAR SPACE AROUND PENETRATING ITEMS TO BE FILLED WITH APPROVED MATERIALS TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION, PER 2018 IBC 714.6.2 AND 718.2.5.
DUCT PENETRATIONS THROUGH FLOORS: ANNULAR SPACE AROUND PENETRATING DUCT TO BE FILLED WITH AN APPROVED NON-COMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION, PER 2018 IBC 717.6.3.2 AND 718.2.5

PLUMBING FIXTURES

	# OCCUPANTS		WC REQ'D		WC PROVIDED		LAV REQ'D		LAV PROVIDED		DRINKING FOUNTAINS	
	M	W	M	W	M	W	M	W	M	W	REQ'D	PROV.
STUDENTS/ FACULTY: NOTES: CALCULATIONS BASED ON IPC 4.1 REQ'TS. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT	730	730	15	15	17	17	15	15	17	17	15	20
MAIN GYMNASIUM - PERFORMANCE SPECIAL EVENT NOTES: COMPETITION & AUXILIARY GYMS ARE NON-SIMULTANEOUS USE FROM STUDENT OCCUPANCY. BASED ON 1,389 OCCUPANTS SEATED ON BLEACHERS AND FLOOR W/ 63 STAGE OCCUPANTS	714	714	6	12	12	12	4	4	7	7	3	6
MAIN GYMNASIUM - ATHLETIC COMPETITION (ASSEMBLY) NOTES: COMPETITION & AUXILIARY GYMS ARE NON-SIMULTANEOUS USE FROM STUDENT OCCUPANCY. BASED ON 615 OCCUPANTS SEATED ON BLEACHERS AND 125 ATHLETES AND OFFICIALS	370	370	3	6	12	12	2	2	7	7	2	6
BASEBALL/SOFTBALL COMPLEX (ASSEMBLY) NOTES: CALCULATIONS BASED ON IPC 4.1 REQ'TS. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT. TO BE USED AS DESIGNATED STORM SHELTER FOR STUDENT/FACULTY POPULATION. CALCULATIONS BASED ON ICC-500 REQUIREMENT FOR PLUMBING FIXTURES	300	300	4	8	4	8	2	2	2	4	1	2
TORNADO SHELTER NOTES: PER ICC 500 TABLE 702.2. OCCUPANT LOAD BASED ON PROJECTED 1,200 STUDENT/ 260 FACULTY COUNT. TO BE USED AS DESIGNATED STORM SHELTER FOR STUDENT/FACULTY POPULATION. CALCULATIONS BASED ON ICC-500 REQUIREMENT FOR PLUMBING FIXTURES	730	730	3	3	3	3	1	1	1	1	-	-

CODE PLAN, LEVEL 1

SCALE: 1" = 30'-0"

NORTH

SYMBOL LEGEND

- OCCUPANCY LOAD
 - ACCESSORY USE AREA
(OCCUPANCY LOAD IS NOT INCLUDED IN LOADS BEYOND THIS ROOM)
 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR OR STAIR
(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15
THE CAPACITY OF STAIRS ARE DETERMINED AS FOLLOWS
WIDTH IN INCHES DIVIDED BY 0.2 FOR SPRINKLERED PER 1005.3.1 EXCEPTION 1)
 - COMBINED OCCUPANT LOAD AT A GIVEN DOOR. (SUM OF THESE EQUALS TOTAL OCCUPANT LOAD)
(THE CAPACITY OF DOORS ARE DETERMINED AS FOLLOWS:
CLEAR OPENING WIDTH IN INCHES DIVIDED BY 0.15)
 - PANIC DEVICE
XX MIN - DOOR FIRE RATING

WALL SEPARATION LEGEND

WALL HOURLY RATING	WALL FIRE RATING TYPE
0 = 0 HOUR	C = CORRIDOR
1/2 = 1/2 HOUR	EW = EXTERIOR WALL
1 = 1 HOUR	FB = FIRE BARRIER
2 = 2 HOUR	FP = FIRE PARTITION
3 = 3 HOUR	FSB = FIRE SMOKE BARRIER
SP = SMOKE PARTITION	FW = FIRE WALL
SW = SMOKE WALL	HX = HORIZONTAL EXIT
	SB = SMOKE BARRIER
	VS = VERTICAL SHAFT
	VX = VERTICAL EXIT
	XP = EXIT PASSAGEWAY

TYPICAL DOOR WIDTHS

DOOR WIDTH	CLEAR WIDTH	IBC 1005.1 FACTOR	ALLOWABLE OCCUPANCY
36"	33"	0.15	220
42"	39"	0.15	260
48"	45"	0.15	300
PAIR 36"	64"	0.15	426
PAIR 42"	76"	0.15	506
PAIR 48"	88"	0.15	586

BUILDING 1 - TYPE IIB - 2 STORY
20,293 SF
SPRINKLED

EXIT ACCESS TRAVEL DISTANCE LVL 2: 238'-0" < 250'-0"
(TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE)
MAXIMUM COMMON PATH OF TRAVEL LEVEL 2: 63'-0" < 75'-0"
(TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY)

BUILDING 2 - TYPE IIB - 2 STORY
40,842 SF
SPRINKLED

EXIT ACCESS TRAVEL DISTANCE: 238'-0" < 250'-0"
(TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE)
MAXIMUM COMMON PATH OF TRAVEL: 70'-0" < 75'-0"
(TABLE 1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY)

BUILDING 3 - TYPE IIB - 1 STORY + MEZZANINE
65,957 SF
SPRINKLED

UPPER SEATING IS 144 < 147TH OF TOTAL BLEACHER, AND EGRESS DOWN STAIRS
IBC 1108.2.4 DISPERSION OF WHEELCHAIR SPACES EXCEPTION #2:
IN MULTILEVEL ASSEMBLY SEATING AREAS WHERE THE SECOND FLOOR OR MEZZANINE LEVEL PROVIDES 25 PERCENT OR LESS OF THE TOTAL SEATING CAPACITY AND 300 OR FEWER SEATS, ALL WHEELCHAIR SPACES SHALL BE PERMITTED TO BE LOCATED ON THE MAIN LEVEL.

BUILDING 1:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE
(IBC 506.2.3 SINGLE OCCUPANCY, MULTI STORY BUILDING
IBC 506.3 FRONTAGE INCREASE):

IF= .6
Aa=[At + (NS * If)] * Sa
Aa=[43,500+(14,500*.6)]

TOTAL ALLOWABLE AREA PER FLOOR: 52, 200

ACTUAL AREA PER FLOOR:

LEVEL 01: 20,385 SF

LEVEL 02: 20,385 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"

ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 2:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 43,500 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

IF= .26
Aa=[At + (NS * If)] * Sa
Aa=[43,500 + (14,500 * .26)]

TOTAL ALLOWABLE AREA PER FLOOR: 47, 270

ACTUAL AREA PER FLOOR:

LEVEL 01: 41,978 SF

LEVEL 02: 41,842 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT (PER TABLE 504.3): 75' - 0"

ACTUAL BUILDING HEIGHT: 42' - 3"

BUILDING 3:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58, 000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.3):

IF= .67
Aa=[At + (NS * If)] * Sa
Aa=[58,000 + (14,500 * .67)]

TOTAL ALLOWABLE AREA PER FLOOR: 67, 715

ACTUAL AREA PER FLOOR:

LEVEL 01: 61,768 SF

MEZZANINE AND EQUIPMENT PLATFORMS: 5,718 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"

ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 4:

OCCUPANCY GROUP: E
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 58,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

IF= .46
Aa=[At + (NS * If)] * Sa
Aa=[58,000 + (14,500 * .46)]

TOTAL ALLOWABLE AREA PER FLOOR: 64,670

ACTUAL AREA PER FLOOR: LEVEL 01: 8,126 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 75'-0"

ACTUAL BUILDING HEIGHT: 32'-0"

BUILDING 5:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):
*NONSEPARATED USE OCCUPANCY - ALLOWABLE AREA AND HEIGHT OF
BUILDING BASED ON MOST RESTRICTIVE ALLOWANCES PER 508.3.2.

IF= .4
Aa=[At + (NS * If)] * Sa
Aa=[26, 000 + (26,000 * .4)]

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 4,829 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"

BUILDING 6:

OCCUPANCY GROUP: S-2
CONSTRUCTION TYPE: IIB
ALLOWABLE AREA (IBC TABLE 506.2): 26,000 SF
ALLOWABLE AREA INCREASE FOR FRONTAGE (IBC 506.2.2, 506.3):

IF= .4
Aa=[At + (NS * If)] * Sa
Aa=[26, 000 + (26,000 * .4)]

TOTAL ALLOWABLE AREA PER FLOOR: 36,400

ACTUAL AREA PER FLOOR: 740 SF

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'-0"

ACTUAL BUILDING HEIGHT: 14'-0"



CODE PLAN, LEVEL 02

SCALE: 1"=30'-0"