# **Conceptual Review Agenda**

#### Schedule for 06/03/21

Meetings hosted via Zoom Web Conferencing

## Thursday, June 3, 2021

Time	Project Name	Applicant Info	Project Description	
11:15	4316 W Laporte Ave Water Treatment Facility	Amy Johnson 970-286-5337 ajohnson@fcgov.com	This is a request to construct a Belt Press Building for the existing City of Fort Collins Water Treatment Facility located at 4316 Laporte Ave (parcel #970700913; 9707000904; 9707000908). This structure will house a belt filter press to	Planner: Clark Mapes Engineer: Spencer Smith DRC: Todd Sullivan
	CDR210044		receive and mechanically thicken sludge byproduct from the Water Treatment Facility. The proposed building at is approximately 3,250 sf. There are two attached, covered settling (water) tanks with a footprint of 2,000 sf and an attached covered exterior bay that will be approximately 700 sf. Access is taken from the interior access drive and Laporte Ave to the south. The site is within the Residential Foothills (RF) zone district and is subject to Planning & Zoning Board (Type 2) Review.	

# 4316 Laporte Ave COFC Water Treatment Facility - Belt Press Building



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CONCEPTUAL REVIEW:

APPLICATION

#### **General Information**

All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media. The applicant acknowledges that they are acting with the owner's consent.

Conceptual Reviews are scheduled on three Thursday mornings per month on a "first come, first served" basis and are a free service. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Thursday morning. A completed application must be submitted to reserve a Conceptual Review time slot. <u>Complete applications and sketch</u> <u>plans</u> must be submitted to City Staff on Thursday, no later than end of day, two weeks prior to the meeting date. Application materials must be e-mailed to <u>currentplanning@fcgov.com</u>. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority. Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal.

\*BOLDED ITEMS ARE REQUIRED\* \*The more info provided, the more detailed your comments from staff will be.\* Contact Name(s) and Role(s) (Please identify whether Consultant or Owner, etc)

Amy Johnson, Special Project Manager, Water Systems Engineering, Utilities (owner)

Business Name (if applicable) <u>City of Fort Collins, Utilities</u>

Your Mailing Address 700 Wood St., Fort Collins, CO 80521

Phone Number 970-286-5337 Email Address ajohnson@fcgov.com

Site Address or Description (parcel # if no address) \_\_\_\_

Water Treatment Facility (WTF), 4316 West Laporte Ave., Fort Collins, CO 80521

Description of Proposal (attach additional sheets if necessary)

See attached description

Proposed Use <u>Solids Handling Facility</u> Existing Use <u>None (new facility proposed)</u>

Total Building Square Footage 3,250 SF S.F. Number of Stories 2 Lot Dimensions Whole WTF = 89 acres

Age of any Existing Structures Original Water Treatment Plant facilities built in 1967 with expansions in 1986 and 2000

Info available on Larimer County's Website: <u>http://www.co.larimer.co.us/assessor/query/search.cfm</u> If any structures are 50+ years old, good quality, color photos of all sides of the structure are required for conceptual.

Is your property in a Flood Plain? 
□ Yes X No If yes, then at what risk is it? \_\_\_\_

Info available on FC Maps: <u>http://gisweb.fcgov.com/redirect/default.aspx?layerTheme=Floodplains</u>.

Increase in Impervious Area

41,553 S.F.

(Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

#### Suggested items for the Sketch Plan:

Property location and boundaries, surrounding land uses, proposed use(s), existing and proposed improvements (buildings, landscaping, parking/drive areas, water treatment/detention, drainage), existing natural features (water bodies, wetlands, large trees, wildlife, canals, irrigation ditches), utility line locations (if known), photographs (helpful but not required). Things to consider when making a proposal: How does the site drain now? Will it change? If so, what will change?

### **Description of Proposal**

The new Belt Press Building will house a belt filter press to receive and mechanically thicken the alum sludge byproduct from the Water Treatment Facility sedimentation basins. The process will separate the solids into a filtrate and a solid cake. The filtrate will be discharged into the existing lagoons and then pumped to the backwash ponds. The solid cake residual will be conveyed into a container or dump truck and hauled away.

The new belt filter press system will be designed to take all or part of the sludge flow from the water treatment process to supplement and improve the current lagoon system operation, as both processes will be required during peak demands and at future production rates.

This system will prevent taste and odor issues in the drinking water, enhance the water treatment process, ensure the continued supply of clean drinking water, prevent the overflow or spill of solids to the environment, and prevent the violation of water quality and solid waste regulations.

The proposed two-story process building is 3,250 SF. There are two attached, covered settling (water) tanks with a footprint of 2,000 SF and an attached covered exterior bay (700 SF).







# FORT COLLINS WATER TREATMENT FACILITY **BELT PRESS BUILDING**

50% Design Project

# **ISSUED FOR PRELIMINARY DESIGN 50%**

**CITY OF FORT COLLINS** UTILITIES DEPARTMENT

HDR PROJECT NO: 10258885 UTILITY DEPARTMENT PROJECT NUMBER: 5020100009

Larimer County Colorado May, 2021

CITY OF FORT COLLINS, UTILITIES

AMY JOHNSON, PE, PMP (970) 286-5337 AJOHNSON@FCGOV.COM







**KEY PROJECT PERSONNEL** 

HDR ENGINEERING

MARK BEEBE, P.E (303) 318-6353 (OFFICE) (303) 868-7731 (MOBILE) MARK.BEEBE@HDRINC.COM

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SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE			DESIGN CRITERIA	A
						PRE-SEDIMENTATION BASIN FLOW RATES TO BELT I	PRESS BUILDING
00 - GEN	ERAL	<u>03 - BEL</u>	T PRESS BUILDING (CONT.)			AVERAGE DAY (1)	51,600 GPD
000001		020404				PEAK WEEK (1)	124,300 GPD
00G001		03D101	PROCESS PLAN			PEAK DAY (1)	240,900 GPD
00G002	ABBREVIATIONS AND NOTES	03D501	PROCESS DETAILS			MAXIMUM INSTANTANEOUS FLOW RATE FROM PRE-SED TRAIN	S 1,000 GPM
00G004	GENERAL LEGEND AND NOTES					NOTES: (1) CURRENT OPERATING CONDITIONS	
00G005	INSTRUMENTATION LEGEND	03M101	MECHANICAL FLOOR PLAN			EQUALIZATION TANKS	
00G006	CIVIL LEGENDS AND NOTES	03M601	HVAC EQUIPMENT SCHEDULES			NUMBER OF TANKS	2
00G007	GENERAL STRUCTURAL NOTES	000404				VOLUME	
00G008		03P101	PLUMBING FLOOR PLAN			TANK VOLUME (EA)	90,000 GAL
00G009		0310001	PEOMONY EQUITIMENT SCHEDOLES			TANK VOLUME (TOTAL)	180,000 GAL
00G011	PROCESS & INSTRUMENTATION CONTROL SYMBOLS	03E101	POWER PLAN			MIXERS	
00G012	INSTRUMENTATION WATER UTILITY P&ID TAG LEGEND	03E601	MCC176 ONE-LINE DIAGRAM 1			NUMBER	1 PER TANK
00G013	INSTRUMENTATION PHYSICAL LOCATION AND CONTROL LEGEND	03E602	MCC176 ONE-LINE DIAGRAM 2			TYPE	VERTICAL TURBINE
00G014	INSTRUMENTATION LEGEND					HORSEPOWER	5
00G015	INSTRUMENTATION SYMBOLS & ABBREVIATIONS					DRIVE TYPE	VFD
000001						RPM (MAXIMUM)	25
005001						SLUDGE FEED PUMPS	
003501							1 DUTY 1 STANDBY
008503	MASONRY DETAILS						PROGRESSIVE CAVITY
00\$504	MASONRY DETAILS					PUMP CAPACITY AT DESIGN POINT (EA)	325 GPM
00\$505	STEEL DETAILS					TOTAL DYNAMIC HEAD AT DESIGN POINT (TDH)	85 FT
00\$506	STAIR AND RAILING DETAILS					DRIVE TYPE	VED
						HORSEPOWER	15
00D101	PROCESS FLOW DIAGRAM						
00D102	HYDRAULIC PROFILE					POLTMER FEED STSTEM	
005601						POLYMER SYSTEM	
00E602	MEDILIM VOLTAGE - PRIMARY DISTRIBUTION					POLYMER CONCENTRATION- DILUTED TO PROCESS	0.25% - 0.50%
						DILUTION WATER FLOW RATE	3 – 25 GPM
01 - PRO	CESS & INSTRUMENTATION DIAGRAMS					STORAGE	
01Y601	VALVE VAULT						1,200 GAL
01Y602	SLUDGE EQ AND PUMPING						1
01Y603	BELT FILTER PRESS						1
01Y604	POLYMER STORAGE AND FEED					DOSAGE RATE (NEAT SOLUTION MAXIMUM)	4.0 GPH
01 1605						TYPE	PROGRESSIVE CAVITY
011010						HORSEPOWER	3
02 - SITE	WORK					DRIVE TYPE	VFD
02 - 0112							
02C101	OVERALL SITE PLAN AND STAGING AREA						
02C401	SITE PAVING AND GRADING PLAN					BELT FILTER PRESS UNIT	
02C402	YARD PIPING AND UTILITY PLAN					NUMBER OF UNITS	1
02C501	CIVIL DETAILS					BELT SIZE	2.0 - 2.2 METERS
							0.5 1.0% SOLIDS
03 - BEL	PRESS BUILDING					CONVEYOR SYSTEM	
						DESIGN CAKE LOADING RATE	
03S101	BELT PRESS BUILDING FOUNDATION PLAN						SHAFTLESS SPIRAL
035102	BELT PRESS BUILDING MEZZANINE PLAN					ITPE	CONVEYOR
035301	BELT PRESS BUILDING ROOF FLAN						
03\$302	BELT PRESS BUILDING SECTIONS						
03\$501	BELT PRESS BUILDING STRUCTURAL DETAILS						
03A001	ARCHITECTURAL CODE SUMMARY						
03A101	ARCHITECTURAL FLOOR PLAN						
03A102							
03A201	ARCHITECTURAL EXTERIOR ELEVATIONS						
03A202	ARCHITECTURAL EXTERIOR ELEVATIONS						
03A301	ARCHITECTURAL BUILDING SECTIONS						
03A302	ARCHITECTURAL WALL SECTIONS						
03A401	ARCHITECTURAL ENLARGED PLANS & DETAILS						
03A501	ARCHITECTURAL DOOR AND WINDOW DETAILS						
03A502	ARCHITECTURAL DETAILS						
03A503	ARCHITECTURAL DETAILS						
USADUT	ARGHIEGTURAL SCHEDULES & WALL TYPES						

#### GREY SHEETS NOT INCLUDED IN 50% SUBMITTAL

			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1 & C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	E. PAZ
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



UTILITIES DEPARTMENT BELT PRESS BUILDING D

С

В

7



		CLKC						N		DOD
A/C A/E		CLKG		F			INSIDE DIAMETER, INTERIOR DIMENSION	N NA		RAR
	AMPERE	CMH	COMMUNICATION MANHOLE	FAB	FABRICATE	LE LE	INSIDE FACE	NAT	NATURAL NATIONAL	R
AB	ANCHOR BOLT	CMP	CORRUGATED METAL PIPE	FB	FLOOR BEAM	Lін	INTAKE HOOD	NC	NORMALLY CLOSED	RA
ABAN	ABANDON	CMU	CONCRETE MASONRY UNIT	FBD	FIBERBOARD	IMP	IMPACT	NEG	NEGATIVE	RB
ABC	AGGREGATE BASE COURSE	co	CLEANOUT, CONCRETE OPENING	FBG	FIBERGLASS	IN	INCH	NF	NEAR FACE, NON-FUSED	RCPT
ABT	ABOUT	COL	COLUMN	FBM	BOARD FOOT MEASURE	INC	INCLUDE, INCANDESCENT	NIC	NOT IN CONTRACT	RD
AC	ALTERNATING CURRENT	COM	COMMON	FBO	FURNISHED BY OWNER	INF	INFLUENT	NO	NORMALLY OPEN, NUMBER	REC
ACK	ACKNOWLEDGE	COMB	COMBINATION	FC	FLUSHING CONNECTION	INSTR	INSTRUMENTATION	NOM	NOMINAL	RECD
ACP	ACOUSTIC CEILING PANEL,	COMM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	INSUL	INSULATION	NPS	NOMINAL PIPE SIZE	RECT
100T	ASPHALTIC CONCRETE PAVEMENT	COMP	COMPOSITION, COMPRESSIBLE,	FD	FLOOR DRAIN	INT	INTERIOR, INTERSECTION	NPT	NATIONAL PIPE THREAD	RED
ACST		001	COMPOSITE	FDC	FLEXIBLE DUCT CONNECTION	INIR		NS	NEAR SIDE	REF
AD	ADDENDUM, AREA DRAIN	CON	CONCENTRIC	FDR	FEEDER			NIS		REINF
		CONC		FDIN		IPS IPT		INVVL	NORMAL WATER LEVEL	REM
		CONST	CONNECTION	FEC				0.70.0		REQD
ADJ		CONT	CONTINUOUS	FES	FLARED END SECTION	IRR	IRRIGATION			RET
AFE	ABOVE FINISH FLOOR	COOR	COORDINATE	FEXT	FIRE EXTINGUISHER	ISO	ISOMETRIC	00	ON CENTER	REV
AFG	ABOVE FINISH GRADE	CORR	CORROSIVE, CORRUGATED	FF	FAR FACE, FACTORY FINISH, FLAT FACE	100	ISOMETING	OCPD	OVER CURRENT PROTECTION DEVICE	RE
AGGR	AGGREGATE	CP	CHECKER PLATE, CONTROL POINT	FG	FINISHED GRADE	JB	JUNCTION BOX	OD	OUTSIDE DIAMETER	REG
Al	AREA INLET. ANALOG INPUT	CPLG	COUPLING	FH	FIRE HYDRANT	JCT	JUNCTION	OED	OPEN END DUCT	RFL
AIC	AMPS INTERRUPTING CAPACITY	CRL	CORROSION-RESISTANT LINING	FIG	FIGURE	JF	JOINT FILLER	OF	OUTSIDE FACE, OFFICE FURNISHING	RGH
ALIG	ALIGNMENT	CSC	COMPRESSION SLEEVE COUPLING	FIN	FINISH	JST	JOIST	OFCI	OWNER FURNISHED CONTRACTOR	RGS
ALT	ALTERNATE, ALTITUDE	CSK	COUNTERSINK	FJT	FLUSH JOINT	JT	JOINT		INSTALLED	RGS-PVC
ALUM	ALUMINUM	CSS	CLINIC SERVICE SINK	FL	FLOW, FLOW LINE			OFOI	OWNER FURNISHED OWNER INSTALLED	RH
AM	ACOUSTICAL MATERIAL	CT	CERAMIC TILE	FLEX	FLEXIBLE	к	KIP	OG	ORIGINAL GROUND	
AMB	AMBIENT	CTJ	CONTRACTION JOINT	FLOR	FLUORESCENT	KB	KNEE BRACE	ОН	OVERHEAD	RJT
ANC	ANCHOR	CTR	CENTER	FLR	FLOOR	KCMIL	THOUSAND CIRCULAR MILS	OPNG	OPENING	RL
AO	ANALOG OUTPUT	CTRL	CONTROL	FLS	FLASHING, FLUSH	KD	KNOCK DOWN	OPP	OPPOSITE	RLFA
AP	ACCESS PANEL	CVI	CULVERI	FN		KO	KNOCK OUT	OPT	OPTIONAL OUTOIDE DADINO	RND
APRX		CU		FO	FINISHED OPENING, FIBER OPTIC	KSI	KIPS PER SQUARE INCH	OR	OUTSIDE RADIUS	RNG
APVD	APPROVED	CW		FOB		r.vv	KILOWATT	ORD		ROW
ASSY	ASSEMBLY	l Ŭ		FOF	FACE OF FINISH	Τι	ANGLE LENGTH LAVATORY LINTER	OVEL	OVERFLOW	RPM
AT	ACOUSTICAL TILE, AMP TRIP	d	PENNY (NAIL MEASURE)	FOM	FACE OF MASONRY	LAD	LADDER	OVHG	OVERHANG	RR
ATC	ACOUSTICAL TILE CEILING	D	DEEP, DIFFUSER, DRAIN	FOS	FACE OF STUDS	LAM	LAMINATE	OWL	OPERATING WATER LEVEL	RSP
ATM	ATMOSPHERE	DB	DUCT BANK, DECIBEL, DRY BULB	FOT	FLAT ON TOP	LATL	LATERAL	oz	OUNCE	RST
AUTO	AUTOMATIC	DBA	DEFORMED BAR ANCHOR	FPT	FEMALE PIPE THREAD	LB	LAG BOLT, POUND	1		RT
AUX	AUXILIARY	DBL	DOUBLE	FR	FRAME	LCTB	LIQUID CHALK AND TACK BOARD	Р	PAINT	RVT
AVE	AVENUE	DC	DIRECT CURRENT	FRP	FIBERGLASS REINFORCED PLASTIC	LDG	LANDING	PA	PUBLIC ADDRESS	RY
AVG	AVERAGE	DEG	DEGREE	FRTM	FIRE RETARDANT TREATED MATERIAL	LDR	LEADER	PAR	PARALLEL, PARAPET	
AWG	AMERICAN WIRE GAGE	DEG C	DEGREE CENTIGRADE	FS	FLOOR SINK, FAR SIDE	LE	LIFTING EYE	PB	PANIC BAR, PULL BOX	S
AWT	ACOUSTICAL WALL TILE	DEG F	DEGREE FAHRENHEIT	FT	FEET, FOOT	LF	LINEAR FOOT	PBD	PARTICLE BOARD	SA
		DEMO	DEMOLITION	FTG	FOOTING, FITTING	LG	LONG	PC	POINT OF CURVE, PIECE, PRECAST	SAMU
B TO B	BACK TO BACK	DEP	DEPRESSED	FUR	FURRED, FURRING	LH	LEFT HAND	PCC	POINT OF COMPOUND CURVATURE	SAN
BAL	BALANCE	DEPT	DEPARTMENT	FURN	FURNITURE, FURNISH	LIN	LINEAR	PCF	POUNDS PER CUBIC FOOT	SB
BBD	BULLETIN BOARD	DET	DETAIL	FUT	FUTURE	LIQ		PCT	PERCENT	SC
BC	BASE CABINET, BOTTOM CHORD,	DI	DROP INLET, DUCTILE IRON, DIGITAL INPUT	FV			LONG LEG HORIZON TAL	PE	PLAIN END, POLYETHYLENE, POLISHED	SCE
	BOLT CENTER, BOLT CIRCLE	DIA		FW	FIELD WELD, FIRE WALL			DED	EFFLUENI	SCH
		DIAG		EWE		LIMEU		PED	PEDESTAL	SCHEM
	BOTH ENDS, BELL END	DIFF	DIFFERENTIAL, DIFFERENCE	EVTD	FURNISHED WITH EQUIPMENT	LING		PEN		SCN
DF	BUIND ELANGE BOARD EEET	DISCH	DISCHARGE	FAIR	FIXTORE			DEDM	DEDMANENT	SEC
BITUM	BITUMINOUS	DIST	DISTANCE DISTRIBUTION	G	GRILLE GROUND	LPS	LOW-PRESSURE SODIUM	PERP	PERPENDICULAR	SECT
BKG	BACKING	DIV	DIVISION	GA	GAGE (METAL THICKNESS)	LR	LONG RADIUS	PF	POWER FACTOR	SEP
BL	BASE LINE	DL	DEAD LOAD	GAL	GALLON	LT	LEFT	PFMU	PREFACED MASONRY UNIT	SF
BLDG	BUILDING	DMJ	DOUBLE MECHANICAL JOINT. DISMANTLING JOINT	GALV	GALVANIZED	LTD	LIMITED	PH	PHASE	SG
BLK	BLOCK	DMPF	DAMP PROOFING	GB	GRAB BAR, GRADE BREAK	LTG	LIGHTING	PI	POINT OF INTERSECTION	SH
BLKG	BLOCKING	DN	DOWN	GC	GROOVED COUPLING	LTL	LINTEL	PKG	PACKAGE	SHT
BM	BENCHMARK, BEAM	DO	DISSOLVED OXYGEN, DIGITAL OUTPUT, DITTO	GD	GUARD	LTNG	LIGHTNING	PL	PLATE, PROPERTY LINE,	SHTG
BOC	BACK OF CURB	DP	DEPTH	GEN	GENERAL	LV	LOW VOLTAGE		PRECAST LINTEL	SIL
BOD	BOTTOM OF DUCT	DPDT	DOUBLE POLE, DOUBLE THROW	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	LVL	LAMINATED VENEER LUMBER	PLAS	PLASTER	SIM
BOG	BOTTOM OF GRILLE	DPST	DOUBLE POLE, SINGLE THROW	GFMU	GROUND FACE MASONRY UNIT	LVR	LOUVER	PLAT	PLATFORM	SJ
BOL	BOTTOM OF LOUVER, BOLLARD	DS	DOWN SPOUT	GG	GUTTER GRADE	LW	LIGHTWEIGHT	PLBG	PLUMBING	SL
BOP	BOTTOM OF PIPE	DT	DOUBLE TEE, DRIP TRAP ASSEMBLY	GJ	GROOVED JOINT	LWC	LIGHTWEIGHT CONCRETE	PLF	POUNDS PER LINEAR FOOT	SLTD
BOR	BOTTOM OF REGISTER	DUP	DUPLICATE	GL	GLASS	LVVL	LOW WATER LEVEL	PNEU	PNEUMATIC	SLV
BOIL	BOTTOM OF LINIT	DWG	DRAWING	GLB	CROUND			POL		SIVILS
BD		DWP	DRAWER	GRD		MACH				SP
BRG	BEARING	Dime	DIGWER	GR	GRADE	MAINT	MAINTENANCE	PRC	POINT OF REVERSE CURVATURE	SPA
BRGP	BEARING PLATE	F	FAST	GRTG	GRATING	MAN	MANUAL	PREF	PREFINISHED	SPEC
BRKT	BRACKET	EA	EACH, EXHAUST AIR	GSB	GYPSUM SHEATHING BOARD	MATL	MATERIAL	PREFAB	PREFABRICATED	SPLY
BS	BOTH SIDES	EC	ELECTRICAL CONTRACTOR	GT	GREASE TRAP	MAX	MAXIMUM	PRELIM	PRELIMINARY	SPST
BTU	BRITISH THERMAL UNIT	ECC	ECCENTRIC	GVL	GRAVEL	MB	MACHINE BOLT	PREP	PREPARE	SPT
BTW	BETWEEN	ED	EQUIPMENT DRAIN	GW	GUY WIRE	MBR	MEMBER	PRES	PRESSURE	SQ
BTWLD	BUTT WELD	EDB	ELECTRICAL DUCT BANK	GWB	GYPSUM WALLBOARD	MC	MECHANICAL CONTRACTOR,	PRI	PRIMARY	SR
BUD	BELL UP, BUILT-UP			GYP	GTPSUM HARDBUARD	1	MECHANICAL COUPLING,	PROP	PROPERTY, PROPOSED	SS
BUR						MCB		PRUI		551
BVD	BVDASS					MCL		DSE		STA
	5	EIES	EXTERIOR INSULATION &	НВО	HARDBOARD	MDMJ		PSI	POUNDS PER SOLIARE INCH	STD
стос	CENTER TO CENTER	l	FINISH SYSTEM	HC	HANDICAPPED, HOLLOW CORE, HORIZONTAL	MECH	MECHANICAL	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	STIF
C&G	CURB AND GUTTER	EJ	EXPANSION JOINT	1	CURVE, HORIZONTAL CENTERLINE	MED	MEDIUM	PSIG	POUNDS PER SQUARE INCH GAGE	STIR
С	CHANNEL SHAPE, CENTIGRADE, CONDUIT	EL	ELBOW, ELEVATION	HD	HEAD, HOT DIP	MFR	MANUFACTURER	PST	PRESTRESSED	STL
CAB	CABINET	ELEC	ELECTRICAL	HDR	HEADER	MGD	MILLION GALLONS PER DAY (FLOW RATE)	PT	POINT, POINT OF TANGENCY	STOR
CAP	CAPACITY	EMBD	EMBEDDED	HDW	HARDWARE	MH	MANHOLE, METAL HALIDE	PTN	PARTITION	STR
CAT	CATALOG, CATALOGIORY	EMER	EMERGENCY	HEX	HEXAGONAL	MIN	MINIMUM	PVC	POLYVINYL CHLORIDE, POINT OF	SUB
CAV	CAVITY	EMH	ELECTRICAL MANHOLE	HGR	HANGER	MIR	MIRROR		VERTICAL CURVE	SUC
CB	CATCH BASIN	ENCL	ENCLOSURE	HH	HANDHOLE	MISC	MISCELLANEOUS	PVMT	PAVEMENT	SUSP
CCB		ENGR	ENGINEER	HID		MJ	MECHANICAL JOINT	PW		SY
CCW		ENIR		HM		MLC		PWD		SYM
CDF	CONTROLLED-DENSITY FILL	EOP	EDGE OF PAVEMENT	HORIZ		MLO		PWJ		SYMM
CER		FOLIP	FOUIPMENT	HPC		MO		P7		SVS
CF	CUBIC FEET (FOOT)	EQUIV	FOUIVALENT	HPS	HIGH-PRESSURE SODIUM	MOD	MODULAR, MODIFY	1'-		
CFL	COUNTER FLASHING	ES	EACH SIDE, EQUAL SPACE	HPT	HORIZONTAL POINT OF TANGENCY	MON	MONUMENT	Q	RATE OF FLOW	T&B
CHBD	CHALKBOARD	1	EMERGENCY SHOWER	HR	HOSE REEL, HOUR	MPT	MALE PIPE THREAD	QT	QUARRY TILE	тв
CHD	CHORD	ESEW	EMERGENCY SHOWER AND EYE WASH	HS	HEADED STUD, HIGH STRENGTH	MRGWB	MOISTURE-RESISTANT	QTR	QUARTER	T&G
CHFR	CHAMFER	EST	ESTIMATE	HSS	HOLLOW STRUCTURAL SHAPE	1	GYPSUM WALLBOARD	QTY	QUANTITY	Т
CHH	COMMUNICATION HANDHOLE	EW	EACH WAY, EMERGENCY	HT	HEIGHT	MS	MOP SINK	QUAL	QUALITY	TA
CI	CURB INLET	1	EYE/FACE WASH	HTG	HEATING	MSL	MEAN SEA LEVEL	1		TAN
CIP	CAST-IN-PLACE	EWC	ELECTRIC WATER COOLER	HV	HIGH VOLTAGE	MT	MOUNT	1		TBM
CIPB	CONCRETE INTERLOCKING PAVER	EWEF	EACH WAY, EACH FACE	HVAC	HEATING, VENTILATING AND	MU	MASONRY UNIT	1		TCE
	BALLAST	EWTB	EACH WAY, TOP AND BOTTOM		AIR CONDITIONING	MULL	MULLION	1		TEF
	CIRCULATION, CIRCULAR	EXC	EXCAVATION	HWD		MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL	1		TUD
CKT			EXMANSION EXPOSED	HWL		L MV		1		THD
		EXP	EAFANSIUN, EAFUSED			MW				TUDECU
	CEILING	EXT	EXTERIOR EXTERNAL EXTENSION		HENTZ, UTULES FER SEUUND	10100	WONTORING WELL			TKRD
	0212110		EXTENSION, EXTENSION							

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**F** 

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			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1&C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	E. PAZ
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UTILITIES DEPARTMENT BELT PRESS BUILDING

	7		8	
	REMOVE AND REPLACE	TOB	TOP OF BOLT, TOP OF BANK,	
	REMOVE AND SALVAGE	TOC	TOP OF BEAM, TOP OF BERM	
	RETURN AIR	TOD	TOP OF CURB, TOP OF CONCRETE TOP OF DUCT	
-	RESILIENT BASE, ROCK BERM	TOF	TOP OF FOOTING	
I	ROOF DRAIN	TOL	TOLERANCE, TOP OF LEDGER	
-	RECESS	TOM		
с Г	RECEIVED	TOP	TOP OF PLATE TOPOGRAPHY	
	REDUCER	TOS	TOP OF SLAB, TOP OF STEEL,	
F	REFERENCE	TOW	TOE OF SLOPE	-
_	REMOVE	TP	TOILET PARTITION, TELEPHONE POLE,	D
	REQUIRED RESILIENT	TPD	TOE PLATE, TRAP PRIMER	
-	RETAINING, RETURN	TPG	TOPPING, THROUGH PLATE GIRDER	
	REVISION, REVERSE	TR	TRANSOM	
	ROOFING	TRD	TRENCH DRAIN	
	REFLECTED, REFLECTOR	TYP	TYPICAL	
	RIGID GALVANIZED STEEL	U	URINAL	
PVC	PVC COATED RGS	UG	UNDERGROUND	
	RELATIVE HUMIDITY	UNFN	UNFINISHED	
	RESTRAINED JOINT	UNO	UNLESS NOTED OTHERWISE	
<b>`</b>	RELIEF AIR	UTIL	OTILITY	
	ROUND	V	VENT, VELOCITY, VOLT	
	RUNNING ROUGH OPENING	VA VAC	VOLTAMPERE	
	RIGHT-OF-WAY	VAR	VARNISH, VARIABLE,	
	REVOLUTIONS PER MINUTE RAILROAD	VB	VOLT AMPERES REACTIVE VAPOR BARRIER, VINYL BASE	
	ROCK SLOPE PROTECTION		VALVE BOX	
	E - STOP RESET RIGHT	VC VCP	VERTICAL CURVE	
	RESILIENT VINYL TILE	VCT	VINYL COMPOSITION TILE,	
	READY	VEL	VERTICAL CENTERLINE	С
	SOUTH, SINK	VENT	VENTILATION	Ŭ
	SUPPLY AIR	VERT		
0	SANITARY	VERTS	VERTICAL REINFORCING	
	SPLASH BLOCK	VIF	VERIFY IN FIELD	
	SECONDARY CLARIFIER EFFLUENT	VIN	VOLUME	
	SCHEDULE	VPC	VERTICAL POINT OF CURVATURE	
=M	SCREEN	VPI VPT	VERTICAL POINT OF INTERSECTION VERTICAL POINT OF TANGENCY	
	STEEL/ALUMINUM EDGE	VS	VERSUS, VAPOR SEAL	
r	SECONDARY, SECONDS SECTION	VTR VWC	VENT THROUGH ROOF VINYL WALL COVERING	
	SEPARATE			—
	SQUARE FOOT, SILT FENCE	W/	WITHOUT	
	SHOWER	w	WATT, WEST, WIDE, WINDOW, WIRE,	
_	SHEET	W/D	WIDE FLANGE BEAM	
2	SILENCE	WC	WATER CLOSET, WATER COLUMN	
	SIMILAR	WD	WOOD, WIDTH	
	SLOPE, STEEL LINTEL	WG	WIRE GLASS, WATER GAGE	
)	SLOTTED	WH	WALL HYDRANT, WEEP HOLE	
6	SEAMLESS	WL	WATER LEVEL	
	SLAB ON GRADE	WLD	WELDED	в
	SOUNDPROOF, STANDPIPE SPACING	WP	WEATHERPROOF	
2	SPECIFICATION	WS	WATERSTOP, WATER SURFACE	
, Г	SUPPLY SINGLE POLE SINGLE THROW	WSCI	WAINSCOT WEIGHT, WATER TIGHT	
	SET POINT	WTHP	WATERPROOF, WORKING POINT	
	SQUARE SHORT RADIUS	VVVVF	WELDED WIRE FABRIC	
	SERVICE SINK	XP	EXPLOSION-PROOF	
	STAINLESS STEEL STREET	XS XSECT	CROSS SECTION	
	STATION	XXS	DOUBLE EXTRA STRONG	
	STANDARD STIFFENER	YH	YARD HYDRANT	
	STIRRUP	YS	YIELD STRENGTH	
2	STEEL			
`	STRUCTURAL, STRAIGHT			
	SUBSTITUTE			
5	SUSPENDED	GENE	ERAL NOTES:	
	SQUARE YARD	1 THES	SE ABBREVIATIONS APPLY TO THE ENTIRE SET	
М	SYMMETRICAL	OF C	ONTRACT DRAWINGS.	
	SYNTHETIC	2 11571		
	STOLEM	ALL A	ABBREVIATIONS ARE USED IN THE CONTRACT	
	TOP AND BOTTOM	DRA	WINGS.	А
	TONGUE AND GROOVE	3. ABBF	REVIATIONS SHOWN ON THIS SHEET INCLUDE	
	TILE, TREAD	VARI	ATIONS OF A WORD. FOR EXAMPLE, "MOD"	
	I UILE I ACCESSORY, TÉMPERED AIR TANGENT	MAY	N INCLUDED OR INCLUDING AND "REINF" MAY	
	TEMPORARY BENCHMARK	MEAN	N EITHER REINFORCE OR REINFORCING.	
	TEMPORARY CONSTRUCTION EASEMENT	4. SEF	SHEET 00G004 FOR PROJECT-SPECIFIC EQUIPMENT	
Þ	TEMPORARY, TEMPERATURE	SYM	BOLS, EQUIPMENT ABBREVIATIONS, AND PIPING	
	THREAD	SYST	EM ABBREVIATIONS.	
ESH	THRESHOLD			
)	TACK BOARD			

8

# GENERAL ABREVIATIONS AND NOTES

FILENAME 00G003.dwg SCALE NO SCALE

SHEET 00G003



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**FJS** 

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			PROJECT MANAGER	MARK H. BEEBE
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UTILITIES DEPARTMENT BELT PRESS BUILDING

7	8	-
ABBREVIATIONS	SHEET NAMING CONVENTION	
NAME AIR COMPRESSOR AIR RELEASE VALVE BUTTERFLY VALVE BACK PRESSURE VALVE BALL VALVE CHECK VALVE FLOW ELEMENT FLOW ELEMENT FLOW SPLITTER GEAR DRIVE HAND OPERATED VALVE MOTIVE PUMP MIXER NEEDLE VALVE PUMP PRESSURE REDUCING VALVE	AREA DESIGNATION         00       GENERAL         01       P&ID         02       SITE WORK         03       BELT PRESS BUILDING	D
PLUG VALVE ROTAMETER STOP PLATE SOLENOID VALVE TANK WEIR GATE	DISCIPLINE DESIGNATOR & DISCIPLINE ORDER G GENERAL V SURVEYING/MAPPING X DEMOLITION C CIVIL L LANDSCAPING U MULTI-DISCIPLINE S STRUCTURAL A ARCHITECTURAL D PROCESS M MECHANICAL (HVAC) P PLUMBING F FIRE PROTECTION E ELECTRICAL Y INSTRUMENTATION	С
	DRAWING TYPE DESIGNATOR         0       GENERAL (SYMBOLS, LEGENDS)         1       PLANS         2       ELEVATIONS         3       SECTIONS         4       LARGE SCALE VIEWS         5       DETAILS         6       SCHEDULES AND DIAGRAMS         8       PROFILES         9       3D REPRESENTATIONS         EXAMPLE         BELT PRESS BUILDING ARCHITECTURAL ELEVATION, SHEET 01         0       3         AREA DESIGNATION          2         DISCIPLINE DESIGNATOR          2         SHEET TYPE DESIGNATOR	B
	GENERAL NOTES: 1. THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT. 2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.	A

#### GENERAL LEGEND AND NOTES

FILENAME 00G004.dwg SCALE NO SCALE

SHEET 00G004

1	2	3	4	5	6

			APPING SYMBOLOGY	l		UTILITY LINE SYMBOLOGY
<u> </u>						
	EMBANKMENT SLOPE (CUT)	CO	CLEANOUT		WATER MARKER POST	
<b>* *</b>	EMBANKMENT SLOPE (FILL)	$\rightarrow$ $\rightarrow$	CULVERT END SYMBOL (WITH CULVERT SHOWN BETWEEN SYMBOLS)	w w	WATER RISER	
		Эx	FIRE HYDRANT		WATER VALVE	
H:V	EMBANKMENT SLOPE RIGHT ARROW RIGHT	F	FUEL OIL METER		WATER VENT	
H:V	EMBANKMENT SLOPE LEFT ARROW LEFT	F	FUEL OIL MANHOLE	СВ	STORM CATCH BASIN	
×	SPOT ELEVATION/POINT #	F	FUEL OIL VAULT	(CB)	STORM ROUND CATCH BASIN	
	SURVEY BENCHMARK	GT	GREASE TRAP	D	STORM DRAINAGE MANHOLE	
۵CP-X	SURVEY CONTROL POINT	GC	GRIT CHAMBER	┣	WATER/AIR VENT	
◬	HORIZONTAL CONTROL POINT		HEADWALL	<u>¥</u>	WATER BACKFLOW PREVENTER	
$\odot$	VERTICAL CONTROL POINT		INDUSTRIAL WASTE WATER METER	••-	WATER BLOWOFF	
	SECTION CORNER MONUMENT		INDUSTRIAL WASTE WATER MANHOLE		WATER METER	
	SECTION CORNER NO MONUMENT	<u>ر</u>	NATURAL GAS METER	1/200	WATER SHUTOFF	
€x	IDENTIFICATION AND APPROXIMATE LOCATION OF SOIL TEST HOLE	6	NATURAL GAS RECEIVER	W9	WATER SOFTENER	
<b>₽</b> ,	TEST PIT	G	NATURAL GAS TRAP	₩	WATER VALVE VAULT	
Ô	SOIL BORING	G	NATURAL GAS LINE VAULT	$\bowtie$	VALVE	
^	BUOY	MW)	MONITORING WELL	<u>A</u>	CONTROL POINT	
<b>~~~</b>	FLOW ARROW		POST INDICATOR VALVE			
$\overline{\Delta}$	WATER LEVEL IN SECTION/PROFILE		PUMP STATION			
	TIDE GAUGE	(S)	SANITARY MANHOLE			
	EXISTING UTILITY POLE	ST	SEPTIC TANK			
÷	DOWNGUY	ٽ_ ا	TANK BELOW GROUND			
Ūx	EXTERIOR UTILITY JUNCTION BOX	$\square^{x}$	TANK HORIZONTAL ABOVE GROUND			
$(\overline{\sim})$	INTERSTATE HIGHWAY SYMBOL	Ox	TANK VERTICAL ABOVE GROUND			
The second se	US HIGHWAY SYMBOL	Q	HYDRANT			
$\widetilde{\mathbb{A}}$	STATE HIGHWAY SYMBOI	۲	BOLLARD			
হাইনার	HAY BALE SILT CHECK	E	ELECTRIC BOX			
تلتختا <sup>ي</sup> ۹	TEMPORARY SEDIMENT TRAP	E	ELECTRIC MANHOLE			
-		Ē	ELECTRIC SWITCH			
$\sim_{\rm X}$	PAU SIGNAL	$\boxtimes$	ELECTRIC TRANSFORMER			
		¢	FLOOD LIGHT POLE			
r r		¢	LIGHT POLE			
		Τ	MARKER POST			
ln ∕			SIGN			
ے بے		T	TELEPHONE PEDESTAL			
		⊕	UNKNOWN CLEANOUT			
		ŰK	UNKNOWN MANHOLE			
		•	WATER 2-1/2" DIA. VERTICAL SEET PIPE			
		<b>©</b>	WATER CATHODIC PROTECTION			
		W	WATER MANHOLE			

FC

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UTILITIES DEPARTMENT BELT PRESS BUILDING

7

#### CIVIL LINE SYMBOLOGY

8

CIVIL		
+++++++++-	RAILROAD	
	CENTERLINE	
	BOTTOM OF DITCH	
	PROPERTY LINE	
	EASEMENT	
	LIMITS OF CONSTRUCTION	
	ROW	
	EXISTING CONTOUR (MINOR)	
25	EXISTING CONTOUR W/ELEVATION (MAJOR)	
XXX	EXISTING FENCE	
	EXISTING VEGETATION/BRUSH LINE	
X	FENCE - BARB WIRE	
	FENCE - CHAIN LINK	
	FENCE - FIELD	
XXX	FENCE - OTHER	
	FENCE - WOOD	
XX	FENCE - WOVEN WIRE	
_ · · _ · · _ · · _ · · _	FLOOD LIMIT (25 YEAR)	
	FLOOD LIMIT (50 YEAR)	
	FLOOD LIMIT (100 YEAR)	
	FLOOD LIMIT (200 YEAR)	
	FLOOD LIMIT (500 YEAR)	
	DRIVEWAY GUARDRAIL	
	LEVEE TOP	
	LEVEE TOE	
	NEW CONTOUR (MINOR)	
25	NEW CONTOUR (MAJOR)	
	ROCK BERM	
	SILT FENCE	В
	TOE OF SLOPE	
	TOP OF SLOPE	
XX	EXISTING FENCE	
////	EXISTING EDGE OF ROAD	
	EXISTING PIPE	

#### GENERAL NOTES:

1. THIS IS A STANDARD CIVIL SYMBOLOGY SHEET. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.

2. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.



A

1	2	3	4	5	6
1           GENERAL STRUCTURAL NOTES (GSN)           GENERAL           G1.         SCOPE           THE NOTES ON THIS SHEET AND THE STANDAR TO THE ENTIRE PROJECT WHETHER SPECIFICA ARE SPECIFIC INDICATIONS TO THE CONTRARY QUESTIONS, THEY SHALL BE SUBMITTED TO TO WRITING PRIOR TO CONSTRUCTION.           G2.         APPLICABLE SPECIFICATIONS AND CODES A.           A.         INTERNATIONAL BUILDING CODE 2015 (BK REFERENCED STANDARDS.           B.         ACI 350-06 FOR WATER BEARING CONCRE CONCRETE STRUCTURES (UNO)           A.         DESIGN CRITERIA           1. APPLIES TO ALL STRUCTURES (UNO)         A.           A.         DESIGN CRITERIA           1. APPLIES TO ALL STRUCTURES (UNO)         A.           A.         DESIGN CRITERIA           1. ACTUAL TRIBUTARY STRUCTURE WEIGH         2. STORAGE RM FLOOR:           2. STORAGE RM FLOOR:         200           3. DESIGN CRITERIA         1.000000000000000000000000000000000000	2 AD STRUCTURAL DETAILS ARE GENERAL AND APPLY ALLY CALLED OUT OR NOT, EXCEPT WHERE THERE ('ON STRUCTURAL SHEETS. IF THERE ARE the STRUCTURAL SHEETS. IF THERE ARE ('ON STRUCTURES, ACI 318-14 FOR ALL OTHER T ('ON STRUCTURES, ACI 318-14 FOR ALL OTHER ('ON SPSF SPSF + EQUIPMENT WEIGHT (SO DE CONCENTRATED (NONCONCURRENT) ('ON SNO EXCENTRATED (NONCONCURRENT) ('ASCE 7-10, 3 SEC GUST) AS FOLLOWS: NO EXCEPTIONS RUCTURES: ('ON SNO EXCEPTIONS RUCTURES: ('S SD S = 0.164 (g)) ('S SD S = 0.	<ul> <li>GENERAL STRUCTURAL NOTES (GSN)(CONTINUED)</li> <li>G8. STANDARD DETAILS</li> <li>THE STANDARD DETAILS DEPICT TYPICAL DETAILING TARE NOT EXPLICITLY SHOWN ON THE DRAWINGS THE DETAILS. OBTAIN APPROVAL OF ENGINEER IN WRITING CONSTRUCTION.</li> <li>G9. THE CONTACTOR SHALL FIELD VERIFY ALL DIMENSIONS CONSTRUCTION.</li> <li>G9. THE CONTACTOR SHALL FIELD VERIFY ALL DIMENSIONS CONSTRUCTION.</li> <li>G10. CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT CHANGES FOR APPROVAL.</li> <li>G11. CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT FORCES, SUPPORT LOCATIONS, ALONG WITH ANY FLORED SUPPORT SAID EQUIPMENT SHALL NOT BE FABRICATE SUPPORT PADS AND/OR FRAMING IS APPROVED TO SUPPORT PADS AND/OR STRUCTURES = 4.450 FC SELF CONCING STEEL = 6.000 PC FC ALL OTHER CONCRETE E POSITED AGAINST EARTH. 3" TIE REINFORCING STRUCTURAS TRUCTURAS DRAWING WORK SHOWN ON STRUCTURAS TO CONCRETE PLOYED EXTINITIONS FOR EXCEPTIONS</li> <li>SEE SPECIFICATIONS FOR REINFORCING PLACEMENT SUL ALL OTHER: CONTRACT DOCL ONCRETE PLOYED IN THE CONTRACT DOCL FURNISHING OF A FUNCTIONALLY COMPLETE PROJEC STANDARD STRUCTURAS DETAILS UNLESS OTHERWISE</li> <li>REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONCRETE PLACEMENTS. SUPPORAL BUT THE FINITH FUNCTIONAL SOTHERWISE</li> <li>REFER TO OTHER DISCIPLINE DRAWINGS PRIOR TO CONCRETE FLOCED CONCRETE PLACEMENTS. SUPPORAL BUT THE INFORCING AND</li></ul>	4 O BE USED ON THIS PROJECT. IF CONDITIONS SHALL BE MADE SIMILAR TO THE STANDARD FOR SIMILAR CONDITIONS PRIOR TO AND ELEVATIONS OF EXISTING CONSTRUCTION. SUBMIT REQUIRED T SIZES, OPERATING WEIGHTS, VIBRATION OR OPENINGS, NOTCHES, AND RECESSES FPADS AND/OR FRAMING REQUIRED TO D AND PLACED UNTIL THE CONCRETE IPPORT THE EQUIPMENT. 00 PSI 00 PSI 00 PSI 00 PSI 00 PSI 00 PSI 00 PSI 00 PSI 01 00 PSI 02 01 01 02 02 02 03 02 04 04 05 05 03 02 04 04 05 05 03 02 04 04 05 05 05 05 05 05 05 05 05 05 05 05 05	STEEL         S1         DESIGN STRENGTHS: WIDE FLANGE AND TES: STAINLESS STEEL: FY301 ALL OTHER PLATES AND SHAPES: FY36 KSI STAINLESS STEEL: TO CONTERLINES OF COLUMNS AND BEAMS, TO OF CHANNELS AND ANGLES UNO.         S2       DIMENSIONS: TO POF STEEL REFERS TO TOP SURFACE OF M         S4       WHEN FILLET WELD SIZE IS NOT INDICATED, PF THICKNESS IN ACCORDANCE WITH AISC SPECI S2         S5       ALL BOLTED STRUCTURAL CONNECTIONS ARE SPECIFIED TO BE SUP-CRITICAL. PROVIDE LOAD CONNECTIONS.         S6       CONFORM TO AISC 360, STEEL CONSTRUCTION S7. ALL CAST-IN AND POST INSTALLED ANCHORS S3 STRUCTURAL ALUMINUM IS ALLOY 6061-16 UNO S7. ALL CAST-IN AND POST INSTALLED ANCHORS S3 STRUCTURAL ALUMINUM: FY-35 KSI STRUCTURAL ALUMINUM IS ALLOY 6061-16 UNO S1. DIMENSIONS: TOP OF ALUMINUM REFERS TO TOP SURFACE O S4. WHEN FILLET WELD SIZE IS NOT INDICATED, PF THICKNESS IN ACCORDANCE WITH THE LATES THE ALUMINUM ASSOCIATION.         S6       ALUMINUM IN CONTACT WITH DISSIMLAR MATI CONTACT SURFACES SHALL BE PROVIDED WIT TOP OF ALUMINUM ASSOCIATION.         S6       LEEVATIONS: TOP OF ALUMINUM ASSOCIATION.         S7       ALUMINUM IN CONTACT WITH DISSIMLAR MATI CONTACT SURFACES SHALL BE PROVIDED WIT SHEET.         S6       ALUMINUM IN CONTACT WITH DISSIMLAR MATI CONTACT SURFACES SHALL BE PROVIDED WIT SHEET.         S7       DEFERRED SUBMITTAL WILL BE REVIEWED EF COMPLIANCE WITH THE SPECIFIED DESIGN I FORWARDED TO THE BUILDING PERMIT N APPROVAL OF THE DEFERRED SUBMITTAL ICLUDE:         S7       DEFERRED SUBMITTAL WILL BE REVIEWED EF COMPLIANCE WITH THE SPECIFIED DESIGN I FORWARDED TO THE BUILDING PERMIT	6      SI     SI     SI     SI     SI     DP SURFACES OF BEAMS AND TUBES AND BACKS     IEMBER OR FLANGE UNO.     KOVIDE MAXIMUM WELD SIZE BASED ON MATERIAL     FICATIONS.     BEARING TYPE CONNECTIONS UNLESS OTHERWISE     D INDICATING WASHERS AT SLIP-CRITICAL      I MANUAL AND AISC 341, SEISMIC DESIGN MANUAL.     SHALL BE TYPE 316 SST.      DP SURFACES OF BEAMS AND TUBES AND BACKS     R FLANGE OF MEMBER UNO.     ROVIDE MAXIMUM WELD SIZE FOR THE MATERIAL     T EDITION OF THE "ALUMINUM DESIGN MANUAL" BY     ERIALS OR CONCRETE:     H GALVANIC SEPERATION PER SPECIFICATIONS.  ENTS OF PROPERTY DESIGN AND FABRICATION, WHI     APPROVAL. THESE ITEMS SHALL CONFORM TO THE     DINGS AND OTHER STRUCTURES SPECIFIED ON THIS     SY THE STRUCTURAL ENGINEER OF RECORD FOR     REQUIREMENTS, STAMPED AS REVIEWED, AND     IT FOR APPROVAL.     HEIR DESIGN AND SUBMITTAL     EUILDING DEPARTMENT.     UCTURES     S
<ul> <li>2000</li> <li>G5. <u>SAFETY</u> SAFETY AND STRUCTURE STABILITY DURING C THE CONTRACTOR. STRUCTURES HAVE BEEN I AS A COMPLETED STRUCTURE.</li> <li>G6. <u>OPENINGS</u> OPENINGS COORDINATE AND PROVIDE OPENI SHOWN OR SPECIFIED IN THE CONTRACT DOCI FURNISHING OF A FUNCTIONALLY COMPLETE F STANDARD STRUCTURAL DETAILS UNLESS OTH G7. <u>SPECIAL INSPECTIONS</u> SPECIAL INSPECTIONS ARE REQUIRED IN ACCC IBC. PAYMENT FOR THESE INSPECTIONS IS NO' CONTRACTOR SHALL PROVIDE FOR FULL ACCE SHALL PROVIDE FOR THESE INSPECTIONS IN H WITH THE SPECIFICATIONS.</li> </ul>	PSF: <4 FT EXISTING FILL ONSTRUCTION ARE THE SOLE RESPONSIBILITY OF DESIGNED TO RESIST THE DESIGN LIVE LOADS ONLY ARE NOT ALL SHOWN ON THE STRUCTURAL INGS AS REQUIRED TO ACCOMMODATE ALL WORK UMENTS AND OTHERWISE REQUIRED FOR THE PROJECT. REINFORCE AROUND OPENINGS PER 4ERWISE SHOWN. DRDANCE WITH CHAPTER 1 AND CHAPTER 17 OF THE T THE RESPONSIBILITY OF THE CONTRACTOR. THE ESS TO THE WORK BY THE SPECIAL INSPECTOR AND IS CONSTRUCTION SCHEDULE IN ACCORDANCE	<ul> <li>IDENTIFYING JOINT TYPES, JOINT LOCATIONS AND COL IDENTIFYING JOINT TYPES, JOINT LOCATIONS AND COL</li> <li>C11. ALL CAST IN PLACE AND POST-INSTALLED ANCHORS IN SHALL COMPLY WITH APPENDIX D OF ACI 318 AND CH/ ADHESIVE ANCHORS SHALL HAVE THE ICC REPORT SI SUBMIT AND INSTALL PER THE ICC EVALUATION REPO</li> <li>MASONRY</li> <li>M1. DESIGN STRENGTHS: Fm= 1500 PSI Fy = 60,000 PSI</li> <li>M2. GROUT FOR FILLING MASONRY CAVITIES TO BE COARS AGGREGATE SIZE IS 3/8 INCH.</li> <li>M3. GROUT POURS SHALL NOT EXCEED 4 FEET IN HEIGHT BOTTOM COURSE OF THE CELL(S) TO BE GROUTED AN HIGH LIFT GROUTING.</li> <li>M4. RESTRICTED BAR ANCHORAGE: IN CASES WHERE REINFORCING BARS CANNOT BE EXISHALL EXTEND AS FAR AS POSSIBLE AND END IN STAN AND HIGHLIGHT WITH A BOX TO BRING TO ENGINEERS SHALL EXTEND AS FAR AS POSSIBLE AND END IN STAN AND HIGHLIGHT WITH A BOX TO BRING TO ENGINEERS</li> <li>M5. ANCHOR BOLTS: ALL EXPANSION AND ADHESIVE ANCHORS SHALL HAVI LOAD CAPACITY. SUBMIT AND INSTALL PER THE ICC EN M5. IF BOND BEAMS AT INTERSECTING WALLS ARE SHOWN ELEVATIONS, EXTEND REIFORCING BOTH BOND BE LESS THAN 4 FEET IN EACH DIRECTION.</li> <li>M7. LINTEL BLOCKS SHALL NOT BE USED AS BOND BEAM E BEAMS AND LINTELS COINCIDE.</li> </ul>	ICRETE PLACEMENT SEQUENCE. IDICATED IN THE STRUCTURAL DOCUMENTS PTER 19 OF THE IBC. ALL EXPANSION AND OWING EQUIVALENT LOAD CAPACITY. RT. SE GROUT UNO, MAXIMUM COARSE UNLESS CLEANOUTS ARE PROVIDED IN THE D WRITTEN PERMISSION IS OBTAINED FOR TENDED AS FAR AS REQUIRED, THE BARS DARD HOOK. SHOW ON SHOP DRAWINGS ATTENTION. E THE ICC REPORT SHOWING EQUIVALENT ALUATION REPORT. ON THE DRAWINGS TO MEET AT DIFFERENT AMS AROUND INTERSECTING CORNER NOT LOCKS EXCEPT AT OPENINGS WHERE BOND	<ul> <li>D4. DEFERRED SUBMITTAL ITEMS SHALL NOT BE DOCUMENTS HAVE BEEN APPROVED BY THE</li> <li>D5. DEFERRED SUBMITTAL INCLUDE: <ol> <li>PRECASTIPRESTRESSED CONCRETE STRUE</li> <li>PRE-FABRICATED METAL PANELS</li> </ol> </li> <li>3. PRE-FABRICATED METAL PANELS</li> </ul>	INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL BUILDING DEPARTMENT. JCTURES 3

FC

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#### GENERAL STRUCTURAL NOTES

FILENAME 00G007.dwg SCALE NO SCALE SHEET 00G007

1	2 3	4	5	6
'	HVAC SYMBOLOGY	-	PIPING	PIPING SPECIALTI
120 ROUND DUCT	B 9-0" DUCT ELEVATION TAG			
	ABOVE FINISH FLOOR			
	PRESSURE/TEMPERATURE TEST PLUG			
RECTANGULAR	(PETE PLUG OR EQUAL)		TW TEMPERED WATER (80°)	PRESSURE/TEMPERATURE P
EXHAUST DUCT SECTION, RECTANGULAR		FIRE DAMPER		
		A 1		
90° ELBOW TURNED UP,		24x12     SMOKE DAMPER		
		\$	NPW NON-POTABLE WATER	
	SUPPLY AIR REGISTER OR GRILLE	4 24x12 SMOKE AND FIRE DAMPER		
90° ELBOW TURNED UP, ROUND				FLEXIBLE PIPE CONNECTION
TRANSITION - DOUBLE SIDED	EXHAUST/RETURN AIR REGISTER OR GRILLE		FLWFILTERED WATER	
	-SIZE			
	5412/0.250	FLEXIBLE DUCT		A MANUAL AIR VENT
TRANSITION - RECTANGULAR TO ROUND DUCT				AUTOMATIC AIR VENT
			ELBOW, 90°	
FOR SUPPLY AIR W/O EXTRACTOR AND		PLAN SECTION	ELBOW, 90° TURN DOWN	SCHEMATIC SYMBO
	DESIGNATION TAG	UC 3/4" UNDERCUT DOOR 3/4"	ELBOW, 90° TURN UP	
RISE OR DROP IN RESPECT TO THE AIR FLOW				PNEUMATIC ACTUATOR
	RETURN AIR GRILLE		<u> </u>	FLOW SWITCH
		SIZE 6" RD-1	O TEE, OUTLET UP	PRESSURE SENSOR
	EXHAUST AIR GRILLE	(4,500) AREA		DIFFERENTIAL PRESSURE SE
		COVERED BY ROOF DRAIN	<u>τ</u> ΤΕΕ, OUTLET DOWN W/ 90° TURN	
ELBOW - W/TURNING VANES		IN SQ. FT.		ー ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・
(RECTANGULAR), SMOOTH RADIUS				
· · · · · · · · · · · · · · · · · · ·				
	ABBREVIATIONS		FLOW ARROW	FLOW METER
AD ACCESS DOOR ADJ ADJUSTABLE	EFF EFFICIENCY EMCS ENERGY MANAGEMENT CONTROL SYSTEM	NRC NOISE REDUCTION COEFFICIENT NTS NOT TO SCALE		
AFF ABOVE FINISHED FLOOR AFR ABOVE FINISHED ROOF	ESP EXTERNAL STATIC PRESSURE EWT ENTERING WATER TEMPERATURE	OA OUTSIDE AIR OD OUTSIDE DIAMETER	PIPING VALVES	-
AIU AIK HANDLING UNTI AI ANALOG INPUT AI T AI TERNATIVE	F FORKE FA FREE AREA FCP FAN CONTROL PANEL	OFCI OWNER FURNISHED CON TRACTOR INSTALLED OFOI OWNER FURNISHED OWNER INSTALLED OS&Y OUTSIDE SCREW AND YOKE	SHUTOFF VALVE	
AMB AMBIENT AO ANALOG OUTPUT	FCU FAN COIL UNIT FL FILTER, FLOOR	PD PRESSURE DROP PH PHASE	HOSE VALVE WITH CAP	GENE
APD AIR PRESSURE DROP ARF ABOVE RAISED FLOOR	FLA FULL LOAD AMPS FPB FAN POWERED BOX	PLBG PLUMBING PPH POUNDS PER HOUR		1. PROVIDE AND INSTALL ALL MECHANICAL/P ACCORDANCE WITH THE 2012 INTERNATIO
AV AIR VALVE AVG AVERAGE	FPM FEET PER MINUTE GAL GALLONS	PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE	BALANCING VALVE	CODES AND ALL OTHER APPLICABLE STAT
BFP BACKFLOW PREVENTER BHP BRAKE HORSE POWER	GPM GALLONS PER MINUTE HP HORSE POWER	QTY QUANTITY RA RETURN AIR		2. CONTRACT DOCUMENT DRAWINGS FOR ME ARE DIAGRAMMATIC AND ARE INTENDED T
BOD BOTTOM OF DUCT BOE BOTTOM OF EQUIPMENT	HR HOUR HTG HEATING	REQD REQUIRED RH RELATIVE HUMIDITY	SAFETY OR PRESSURE RELIEF,	3. INSTALL ALL MECHANICAL/PLUMBING FOUL
BOP BOTTOM OF PIPE BTUH BRITISH THERMAL UNITS PER HOUR	HVAC HEATING, VENTILATION, & AIR CONDITIONING HZ HERTZ	RPM REVOLUTIONS PER MINUTE RTU ROOFTOP UNIT		APPURTENANCES IN ACCORDANCE WITH M RECOMMENDATIONS.
CAV CONSTANT AIR VOLUME CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER HOUR	IAQ INDOOR AIR QUALITY ID INSIDE DIAMETER IE INVERT EI EVATION	S SIGNAL PORT SA SUPPLY AIR, SOUND ATTENUATOR SCEM STANDARD CUBIC EEET REP MINUTE	STRAIGHT THROUGH VALVE	4. VERIFY ALL CLEARANCES BEFORE FABRIC
CLG CEILING, COULING CO CLEAN OUT	IN INCHES I/O INPUT/OUTPUT	SF SUPPLY FAN, SQUARE FEET SP STATIC PRESSURE	PRESSURE REDUCING VALVE (PRV)	WORK. COORDINATE WITH ALL OTHER TRA
CONN CONNECTION CONT CONTINUOUS	I/P CURRENT TO PNEUMATIC KEF KITCHEN EXHAUST FAN	SQ SQUARE TCP TEMPERATURE CONTROL PANEL	AUTOMATIC CONTROL VALVE, 2-WAY	ALLOWABLE ALTERNATES, WHILE EQUAL IN THE RESPONSIBILITY OF THE CONTRACTO
CRAC COMPUTER ROOM AIR CONDITIONER CU CONDENSING UNIT	KW KILOWATT LAT LEAVING AIR TEMPERATURE	TD TEMPERATURE DIFFERENTIAL TEMP TEMPERATURE, TEMPORARY	AUTOMATIC CONTROL VALVE, 3-WAY	REQUIREMENTS AND PROVE EQUALITY WI
dB DECIBEL(S) DDC DIRECT DIGITAL CONTROL	LD POUNDS LV LOUVER LWT LEAVING WATER TEMPERATURE	TYP TYPICAL UNO UNI ESS NOTED OTHERWISE		6. TESTING, ADJUSTING, AND BALANCING AG THE ASSOCIATED AIR BALANCE COUNCIL (
DEG F DEGREES FAHRENHEIT DH DEHUMIDIFIER	MAU MAKE-UP AIR UNIT MAX MAXIMUM	UH UNIT HEATER V VOLTS		ENVIRONMENTAL BALANCING BUREAU (NE BALANCING SHALL BE PERFORMED IN ACC STANDARDS.
DIA DIAMETER DN DOWN	MBH THOUSAND BTUH MCC MOTOR CONTROL CENTER	VAV VARIABLE AIR VOLUME V&C VALVE AND CAP	W/ 100% SHUT OFF	7. COORDINATE ALL EQUIPMENT CONNECTIO
DX DIRECT EXPANSION E EXISTING EA EVALIST AIP	MISC MISCELLANEOUS MIN MINIMUM, MINUTES MEG MANUFACTURING	VFD VARIABLE FREQUENCY DRIVE VRF VARIABLE REFRIGERANT FLOW	WATER HAMMER ARRESTOR	CERTIFIED DRAWINGS. COORDINATE AND PIPING TRANSITIONS REQUIRED FOR FINAL
EAT ENTERING AIR TEMPERATURE EDH ELECTRIC DUCT HEATER	MOD MOTOR OPERATED DAMPER NC NORMALLY CLOSED. NOISE CRITERIA	W WATTS WB WET BULB		TO FURNISHED EQUIPMENT. FIELD VERIFY AND PIPING DIMENSIONS BEFORE FABRICA
EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN	NIC NOT IN CONTRACT NO NORMALLY OPEN, NUMBER	WG WATER GAUGE WPD WATER PRESSURE DROP		8. ALL CONTROL WIRE AND CONDUIT SHALL (
		PROJECT MANAGER MARK H. BEEBE	1	
		PROJECT ENGINEER J. LIMKE		City of

**H** 

			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1 & C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	N. LYNCH
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

Fort Collins

UTILITIES DEPARTMENT BELT PRESS BUILDING

	7					8		
TIES			AIR FLOW SO	CHEM	/ATI	C ANI	C	]
			TEMPERATI	JRE (	CON	ITROL		
			DIAGRAM	SYME	BOL	OGY		
	C C	CI	HILLED WATER DOLING COIL	FB	FACE COIL	& BYPASS		
	H	H0 HE	DT WATER EATING COIL	$\left[ \begin{array}{c} \bullet \\ \bullet \end{array} \right]$	GAS- FURN	FIRED DUC	г	
	EP	DI E\ C(	RECT /APORATIVE DOLER	VFD	VFD ( FREC	VARIABLE	IVE)	
		DI	RECT EXPANSION DOLING COIL	CAV	/ c	CONSTANT BOX WITH I	AIR VOLUME REHEAT COIL	
	EH	EL C(	ECTRIC HEATING	VAV	/ c	VARIABLE / BOX WITH I	AIR VOLUME REHEAT COIL	
ION	Ø	E	XHAUST FAN		(	S		$\vdash$
		s	UPPLY FAN		$\sum$		SMOKE/DUCT DETECTOR	
	GAS	G	GAS		$\sum$	Ţ		
	AI	A	NALOG INPUT			P7	SENSOR	
BOLS	AO	А	NALOG OUTPUT			F		C
	DI	C	DIGITAL INPUT		$\geq$		FREEZE STAT	
	DO	C	DIGITAL OUTPUT		h	ΔΡ		
	COMM	C	OMMUNICATION		$ \subset \downarrow $	$\mathbb{Z}^+$		
	CT	C	URRENT TRANSMITTER		$\square$	<u>~</u> /	FILTER SENSOR	
	STARTER	Ν	IOTOR STARTER		l	м		
ESENSOR	VFD	۷	ARIABLE FREQUENCY DRI	VE	$\sum$		MOTORIZED OPPOSED	
	HP	D	IRECT EXPANSION HEAT P	UMP		<u>}_</u> ∕	BLADE DAMPER	-
TTER	DX	۵	DIRECT EXPANSION		$\sum$	$\frac{1}{2}$	GRAVITY DAMPER	
	M	Ν	IOTOR			<u>}_</u> ∕ ⊚		
LER	Ť	Т	HERMOSTAT			+		
	(H)	F	IUMIDISTAT		$\sum$		CO2 SENSOR	
	6	c	ARBON MONOXIDE SENSO	R				
	(NO2)	N	ITROGEN DIOXIDE SENSO	R	$\overline{\ }$			R
	(5)	s	MOKE DETECTOR		$\square$		LOUVER	
	NG	N	IATURAL GAS DETECTOR					
NERAL NOTE	S (APP	IΥ		TS)				1
VPLUMBING SYSTEMS					E (IEC)		70	{
TIONAL MECHANICAL/PI TATE AND LOCAL CODES	LUMBING S. NG WORK	9.	ALL MISCELLANEOUS STE INSTALLATION AND AS SH AND EQUIPMENT (UNLES	EEL REQU IOWN IN E S OTHERV	JIRED TO DETAILS	O ENSURE S FOR PIPIN OTED) SHAL	9. PROPER G, DUCTWORK, L BE FURNISHED	
ED TO CONVEY SCOPE A S SHOULD NOT BE SCAL	ND ED.		AND INSTALLED BY THE M RESPECTIVELY.	NECHANIC	CAL/PLU	IMBING COI	NTRACTOR	-
QUIPMENT AND TH MANUFACTURERS'		10.	PROVIDE ACCESS PANEL AND CEILINGS, WHERE R DAMPERS, VALVES, DUCT CONCEALED MECHANICA	s for ins Equired, Work, Si L/Plumbi	STALLA , TO SE MOKE I NG EQU	TION IN DUO RVICE CON DETECTORS JIPMENT. A	CTWORK, WALLS TROLS DEVICES, S, AND OTHER CCESS PANEL	
RICATING AND INSTALLI TRADES.	ING		INSTALLATION SHALL BE REQUIREMENTS, ARCHIT FINISHES.	COORDIN ECTURAL	IATED V WORK	VITH PROCE	ESS MATERIALS AND	
DESIGN MFG. EQUIPMEN AL IN OUTPUT CAPACITY CTOR TO MEET THE SPA WITH DESIGN MFG. EQI	IT. 7 WILL BE ICE UIPMENT.	11.	ALL DUCTWORK, PIPING, STRUCTURAL STEEL SHA ATTACHMENTS TO STEEL	AND EQU	IPMENT ORDINA STS, TR	SUPPORT	ED FROM ALL TRADES. ALL JOIST GIRDERS	
AGENCY SHALL BE A M CIL (AABC) OR THE NATIO (NEBB). TESTING ADJUS ACCORDANCE WITH THE	EMBER OF DNAL STING AND E AABC		STALL DE AT PANEL POIN PLUMBING, AND STRUCTI MEETING MSS STANDARD SHALL NOT BE PERMITTE	JRAL DRA DS. WELD D.	AWINGS	. PROVIDE STRUCTUF	AL MEMBERS	A
CTIONS WITH MANUFACT	TURER'S	12.	PROVIDE FLEXIBLE CONN SYSTEMS CONNECTED TO WHICH REQUIRE VIBRATI	IECTIONS O FANS, P ON ISOLA	IN ALL PUMPS /	DUCTWOR	K AND PIPING EQUIPMENT	
IND PROVIDE ALL DUCT INAL EQUIPMENT CONNI RIFY AND COORDINATE / RICATION.	AND ECTIONS ALL DUCT	13.	DUCTWORK SHALL BE FA SMACNA STANDARDS.	BRICATE	D AND II	NSTALLED	PER LATEST	
LL COMPLY WITH THE								

# GENERAL MECHANICAL/PLUMBING LEGEND

FILENAME 00G008.dwg SCALE NO SCALE

	2	3 4	5	6 7	8
	ELECTRICAL PLAN SYMB	OLS		ELECTRICAL ONE-LINE SYMBOLS	
IDENTIFICATION SYMBOLS	SWITCHES/RECEPTACLES	RACEWAY	MEDIUM VOLTAGE	LOW VOLTAGE	MISCELLANEOUS
EQUIP# EQUIPMENT IDENTIFICATION	a S <sup>b</sup> SINGLE POLE SWITCH a= DEVICE SWITCHED DESIGNATION b= CIRCUIT DESIGNATION a S <sup>b</sup> IF c=	EXPOSED CONDUIT	a CIRCUIT BREAKER, MEDIUM VOLTAGE a = CIRCUIT BREAKER NUMBER b = FRAME SIZE	e LOW VOLTAGE CIRCUIT BREAKER b o a a = TYPE c o f o f TM = THERMAL MAGNETIC	HP HORSEPOWER RATING FULL LOAD AMPS AS NOTED
	2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH K = KEY OPERATED SWITCH F = KEY OPERATED SWITCH	EXPOSED CONDUIT HIDDEN BEHIND WALLS, FLOORS OR OTHER STRUCTURES	a ANSI RELAY DEVICE a = ANSI DEVICE FUNCTION b = QUANTITY	SS = SOLID STATE b = FRAME SIZE (MANUFACTURER TO DETERMINE FRAME SIZE UNLESS INDICATED) c = NUMBER OF POLES d = TRIP SETTING (AT = AMP TRIP) (AC = MCP CONTINUOUS RATING)	a PACKAGED EQUIPMENT LOAD RATING AS INDICATED a = RATED LOAD b b UNIT(HP, KW, KVA) AS INDICATED TRANSFORMER
a b LUMINAIRE IDENTIFICATION a = DEVICE SWITCHED FROM b = CIRCUIT DESIGNATION c = MOUNTING HEIGHT IN FEE BOTTOM DE FIXTURE	F = SWITCH AND PLOSES IAT HOLDER P = SWITCH AND PLOT LIGHT T = THERMOSTAT D = DIMMER SWITCH L = LOW VOLTAGE LIGHT SWITCH M = MANUAL MOTOR STARTER	UNDERGROUND CONDUIT, DIRECT BURIED     OR IN DUCTBANK	MEDIUM VOLTAGE DISCONNECT SWITCH NON-FUSED CUT OUT	e = DESIGNATION f = INTERRUPTING RATING	$ \begin{array}{c} f \\ g \\ g \\ g \\ \end{array} \begin{array}{c} a \\ b \\ c \\ c \\ d \\ e \\ b \\ e \\ e$
XXXX CONDUIT IDENTIFICATION XXXX = CONDUIT NUMBER, REFER TO CONDUIT SCHEDULE UNLESS OTHERWISE NOTED, GROUPED COND ADEL ABELED LEET TO PICHT OF TOP TO BOT	$ \begin{array}{c} a \\ b \\ b \\ a = CIRCUIT DESIGNATION \\ b = DEVICE SWITCHED DESIGNATION \end{array} $ DUITS $ \begin{array}{c} a \\ b \\ a = CIRCUIT DESIGNATION \\ b = DEVICE SWITCHED DESIGNATION \end{array} $	CONDUIT VERTICAL CHANGE IN DIRECTION	MEDIUM VOLTAGE DISCONNECTING FUSE SINGLE FUSE CUT OUT	O/ AUXILIARY OPERATOR * = S = SHUNT TRIP = K = KIRK KEY INTERLOCK = G = GROUND FAULT INTERRUPTER = V = SOLENOID KEY RELEASE	i,g = CONNECTION TYPE SYMBOL h = IMPEDANCE GROUNDED WYE CONNECTION
ARE LABELED LEFT TO KIGHT OK TOP TO BOT INDICATES KEYNOTE 1 (PERTAINS ONLY TO SHEET WHERE NOTE IS FOUND) OPERATOR INTERFACE STATION	Town. Sb $a = CIRCUIT DESIGNATION$ b = DEVICE TYPE DESIGNATION S = SWITCH AND SINGLE RECEPTACLE $\Rightarrow_{b}^{a}$ DUPLEX RECEPTACLE	JUNCTION BOX	MEDIUM VOLTAGE DISCONNECTING FUSE DOUBLE FUSE CUT OUT	a = TYPE, REFER TO DISCONNECT SCHEDULE	a ENGINE-GENERATOR RATINGS AS
1 = STATION TYPE	a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION QUADRUPLEX RECEPTACLE a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION	DUCTBANK APPROXIMATE DIMENSIONS SHOWN ON DUCTBANK SCHEDULE	MEDIUM VOLTAGE SINGLE FUSE	Fused disconnect switch	d b = VOLTAGE/CONNECTION e c = PHASE d = WIRE e = PF
GROUNDING	$\Theta_{b}^{a} \qquad \text{IN FLOOR DUPLEX RECEPTACLE} \\ a = CIRCUIT DESIGNATION \\ b = DEVICE TYPE DESIGNATION \\ \Theta_{a}^{a} \qquad \text{in FLOOR CONSTRAINS}$	CONDUIT SIZE AND CONDUCTORS	MEDIUM VOLTAGE DOUBLE FUSE	a = 17PE, REFER TO DISCONNECT SCHEDULE b = FUSE RATING	a CURRENT TRANSFORMER WITH SHORTING TERMINAL BLOCK a = QUANTITY b = RATIO
GROUND ROD     GROUND ROD AND GROUND WELL     GROUND CABLE TEE OR CROSS CONNECTION	<ul> <li></li></ul>	INDIVIDUAL CONDUCTORS W"C-(3-X (Ø), 1-Y (N) & 1-Z (G)) W"C (WHERE INDICATED): W = CONDUIT TRADE SIZE		FUSE	$ \begin{array}{c} c \\  \end{array} \\  b \\  b \\  b \\  b \\  b \\  b \\ $
LUMINAIRES	a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION ⇒ a = CIRCUIT DESIGNATION a = CIRCUIT DESIGNATION a = CIRCUIT DESIGNATION b = DEVICE TYPE DESIGNATION	3-X TYPE (Ø): 3 = QUANTITY X = SIZE OF CONDUCTORS (Ø) = DESIGNATES PHASE CONDUCTORS	MEDIUM VOLTAGE ELBOW	COMBINATION STARTER a WITH CONTROL POWER TRANSFORMER a = CIRCLUT BREAKER DISCONNECT	SSM SOLID STATE MULTIFUNCTION METER
2', 4', OR 8' FLUORESCENT STRIP	b = DEVICE TYPE DESIGNATION WELDING RECEPTACLE a = CIRCUIT DESIGNATION b = DISCONNECT TYPE	1-Y TYPE (N)(WHERE INDICATED): 1 = QUANTITY Y = SIZE OF CONDUCTORS (N) = DESIGNATES NEUTRAL CONDUCTORS		b c = NEMA STARTER SIZE c d = OVERLOAD HEATERS	VTP VOLTAGE TEST POINT
2'X 4' LAY-IN TROFFER REFER TO LUMINAIRE SCHEDULE	→ → → → → → → → → → → → → → → → → → →	1-Z TYPE (G)(WHERE INDICATED): 1 = QUANTITY Z = SIZE OF CONDUCTORS (Q) = DESIGNATES GROUND CONDUCTORS		ζ.	
	← a = MOUNTING HEIGHT ← D <sub>a</sub> FAN RECEPTACLE a = MOUNTING HEIGHT	U(3-X TYPE (Ø) & 1-X TYPE (G)} U = NUMBER OF PARALLEL RUNS	Here Mov-elbow Arrester	variable frequency drive with features as shown a = input contactor	
A STROBE a = COLOR R = RED G = GREEN A - AMEER	<ul> <li>Twist Lock Receptacle</li> <li>a = AMP RATING</li> <li>telephone outlet</li> </ul>	MULTI CONDUCTOR CABLES		LR LR LINE REACTOR	
LUMINAIRE, EMERGENCY BATTERY-POWERED	a = MOUNTING HEIGHT a DATA COMMUNICATIONS OUTLET a = MOUNTING HEIGHT	K (WHERE INDICATED) = NUMBER OF PAIRS 2/C#16S = TWO CONDUCTOR, 16 GAUGE, TWISTED SHIELDED PAIR K/3/C#16S			SPD SURGE PROTECTIVE DEVICE
LUMINAIRE, EMERGENCY/EXIT BATTERY-POW	ered     Isconnect switch a = TYPE, REFER TO DISCONNECT SCHEDULE       PE     PHOTOCELL	K (WHERE INDICATED) = NUMBER OF TRIPLETS 3/C#165 = THREE CONDUCTOR, 16 GAUGE, TWISTED SHIELDED TRIPLETS N/CX TYPE N = NUMBER OF CONDUCTORS IN THE CADLE		REDUCED VOLTAGE SOLID STATE STARTER WITH FEATURES AS SHOWN BC = BYPASS CONTACTOR	
LUMINAIRE, SURFACE OR PENDANT MOUNTEE	O     SMOKE DETECTOR     a = TYPE     I = IONIZATION     P = PHOTOELECTRIC     d = DUC1 DETECTOR	X = SIZE OF CONDUCTORS			
← LUMINAIRE, WALL MOUNTED	FACP         FIRE ALARM CONTROL PANEL           F         FIRE ALARM PULL STATION	FO/N N = NUMBER OF INDIVIDUAL FIBERS			
LUMINAIRE, EXIT ONE OR TWO FACES AS INDICATED. ARROW POINTS IN DIRECTION OF EGRESS.	FIC FIRE ALARM HORN/STROBE COMBINATION				K KIRK KEY INTERLOCK
	F FIRE SPRINKLER F = FLOW SWITCH T = TAMPER SWITCH				DEMOLITION BY CONTRACTOR
		PROJECT MANAGER MARK H. BEEBE PROJECT ENGINEER J. LIMKE	1	Cityof	
		STRUCTURAL J. CORONADO ARCHITECTURAL R. MCKINLEY	PRELIMINARY	Fort Collins	ELECTRICAL LEGEND

FSS

			TROUEDT WATCHINGER	
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1 & C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	P. VELEZ
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

NOT FOR CONSTRUCTION OR RECORDING



UTILITIES DEPARTMENT BELT PRESS BUILDING

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FILENAME 00G009.dwg SCALE NO SCALE

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· · · · · · · · · · · · · · · · · · ·				STEEL	
GENERAL G1. SCOPE THE NOTES ON THIS SHEET AND THE STANDARD STRUCT ADDUCTOR OF THE ENTIRE DECLETCALLY	JRAL DETAILS ARE GENERAL AND	CONCRETE C1. DESIGN STRENGTHS: FC CAST-IN-PLACE = 4500 PSI FC DEFCAST		STEEL           S1. DESIGN STRENGTHS:           WIDE FLANGE AND TEES:         Fy=50 KSI           PIPES:         Fy=35 KSI           STANK ESS STEEL         Fy=32 KSI	
APPLY TO THE ENTIRE PROJECT WHETHER SPECIFICALLY WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONT THERE ARE QUESTIONS, THEY SHALL BE SUBMITTED TO T ANSWERED IN WRITING PRIOR TO CONSTRUCTION.	ARLED OUT OK NOT, EXCEPT ARY ON STRUCTURAL SHEETS. IF HE STRUCTURAL ENGINEER AND	FORECAST = 5000 PST Fy = 60,000 PST C2. CONCRETE COVER UNLESS OTHERWISE NOTED, PROVIDE CONCRE	TE COVER FOR REINFORCING AS FOLLOWS:	STAINLESS STEEL PY=33 KST HSS SECTIONS FY=46 KST ALL OTHER PLATES AND SHAPES: Fy=36 KST S2. DIMENSIONS:	
G2. <u>APPLICABLE SPECIFICATIONS AND CODES</u> A. INTERNATIONAL BUILDING CODE, IBC 2021 WITH APPLI REFERENCED STANDARDS.     B. ACI 350-06 FOR WATER BEARING CONCRETE STRUCTURES.	CABLE EDITIONS OF THE CODE IRES, ACI 318-19 FOR ALL OTHER CONCRETE	CONCRETE DEPOSITED AGAINST EARTH: TIE REINFORCING AT COLS & PILASTERS: ALL OTHER: 2" SEE DRAWINGS FOR EXCEPTIONS	3" 2"	TO CENTERLINES OF COLUMNS AND BEAMS, TOP SURFACES OF BEAMS AND TUBES AND BACKS OF CHANNELS AND ANGLES UNO. S3. ELEVATIONS: TOP OF STEEL REFERS TO TOP SURFACE OF MEMBER OR FLANGE UNO.	
C. CITY OF FORT COLLINS AMENDMENTS. G3. <u>DESIGN CRITERIA</u>		C3. SEE SPECIFICATIONS FOR REINFORCING PLACE C4. REFER TO OTHER DISCIPLINE DRAWINGS PRIOF	EMENT REQUIREMENTS. R TO CONSTRUCTION FOR EMBEDDED ITEMS	S4. WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE BASED ON MATERIAL THICKNESS IN ACCORDANCE WITH AISC SPECIFICATIONS.	
1. APPLIES TO ALL STRUCTURES (UNO)     A. DEAD LOAD:     1. ACTUAL TRIBUTARY STRUCTURE WEIGHT     B. LIVE LOAD:		AND PENETRATIONS NOT SHOWN ON STRUCTU ACCOMMODATE ALL WORK SHOWN OR SPECIFI OTHERWISE REQUIRED FOR THE FURNISHING C REINFORCE AROUND OPENINGS PER STANDARI SHOWN.	RAL DRAWINGS. AS REQUIRED TO ED IN THE CONTRACT DOCUMENTS AND OF A FUNCTIONALLY COMPLETE PROJECT. D STRUCTURAL DETAILS UNLESS OTHERWISE	S5. ALL BOLTED STRUCTURAL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS OTHERWISE SPECIFIED TO BE SLIP-CRITICAL. PROVIDE LOAD INDICATING WASHERS AT SLIP-CRITICAL CONNECTIONS.	
1. ELECTRICAL EQUIP ROOM FLOOR:         250 PSF           2. PROCESS EQUIP ROOM FLOOR:         150 PSF           3. ALL OTHER FLOOR:         150 PSF           4. ROOF:         20 PSF (MORE)	EQUIPMENT WEIGHT	C5. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED EDG DRAWINGS.	ES. NOT ALL CHAMFERS MAY BE SHOWN ON	S6. CONFORM TO AISC 360, STEEL CONSTRUCTION MANUAL AND AISC 341, SEISMIC DESIGN MANUAL.	
C. WIND: 1. RISK CATEGORY:	NCENTRATED (NONCONCURRENT)	C6. FIELD ADJUST REINFORCING AT OPENINGS AND C7. ANCHOR BOLTS NOT SPECIFIED BY ENGINEER S	HALL BE DESIGNED AND CERTIFIED BY A		
2. ULTIMATE WIND SPEED. V(ULT): 150 MPH     3. NOMINAL WIND SPEED. V(ASD): 116 MPH     4. EXPOSURE: C     5. ALL STRUCTURES ARE ENCLOSED (UNO)		REGISTERED PROFESSIONAL ENGINEER, RETAIL WITH APPLICABLE PROJECT AND CODE REQUIR REVIEW AND APPROVAL BY THE ENGINEER. CO PRIOR TO CASTING CONCRETE.	NED BY THE CONTRACTOR, IN ACCORDANCE EMENTS. SUBMIT AS A SHOP DRAWING FOR ORDINATE LOCATION, SIZE AND EMBEDMENT	ALUMINUM A1. STRUCTURAL ALUMINUM YIELD STRENGTHS STRUCTURAL ALUMINUM SP35 KSI STRUCTURAL ALUMINUM SALU Y 6061 T6 UNO	
D. SEISMIC: 1. ABOVE GRADE, NON WATER BEARING STRUCTURE	S:	C8. CONTINUOUS WATERSTOP SHALL BE INSTALLED PRESSURE.	D IN JOINTS SUBJECT TO STATIC WATER	A2. DIMENSIONS:	
A. RISK CATEGORY:     MENORTANCE FACTOR:     SPECTRAL RESPONSE ACCELERATION, SS     SPECTRAL RESPONSE ACCELERATION, S1     SITE CLASS:	= 111 = 1.25 = 0.21 = 0.058 = D	C9. ABSOLUTELY NO WELDING OF REINFORCING BA BARS SHALL BE ALLOWED WITHOUT SPECIFIC A ENGINEER.	ARS OR TORCHING TO BEND REINFORCING APPROVAL FROM THE STRUCTURAL	A3. ELEVATIONS: TO DE ALLIMINI IM REFERS TO TOP SURFACE OR ELANGE OF MEMBER LINO	
<ul> <li>SEISMIC DESIGN CATEGORY:</li> <li>SPECTRAL RESPONSE COEFFICIENT, SDS</li> <li>SPECTRAL RESPONSE COEFFICIENT, SD1</li> </ul>	= B = 0.224 = 0.092	C10.CONTRACTOR SHALL SUBMIT A CONCRETE PLA LOCATIONS AND CONCRETE PLACEMENT SEQU	CEMENT PLAN IDENTIFYING JOINT TYPES, JOINT ENCE.	A4. WHEN FILLET WELD SIZE IS NOT INDICATED, PROVIDE MAXIMUM WELD SIZE FOR THE MATERIAL THICKNESS IN ACCORDANCE WITH THE LATEST EDITION OF THE "ALUMINUM	
<ul> <li>BASIC SEISMIC FORCE RESISTING SYSTEM:</li> <li>ANALYSIS PROCEDURE:</li> <li>DESIGN BASE SHEAR:</li> <li>SEISMIC RESPONSE COEFFICIENT, m. RESPONSE MODIFICATION FACTOR,</li> </ul>	ORDINARY REINFORCED MASONRY SHEAR WALL EQUIVALENT LATERAL FORCE = = =	C11.ALL CAST IN PLACE AND POST-INSTALLED ANCI DOCUMENTS SHALL COMPLY WITH CHAPTER 17 IBC. ALL EXPANSION AND ADHESIVE ANCHORS EQUIVALENT LOAD CAPACITY. SUBMIT AND INS	HORS INDICATED IN THE STRUCTURAL OF ACI 318 AND CHAPTER 19 OF THE SHALL HAVE THE ICC REPORT SHOWING TALL PER THE ICC EVALUATION REPORT.	DESIGN MANUAL" BY THE ALUMINUM ASSOCIATION. A5. ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS OR CONCRETE: CONTACT SURFACES SHALL BE PROVIDED WITH GALVANIC SEPERATION PER SPECIFICATIONS.	
E. SNOW LOAD: 1. GROUND SNOW LOAD	= 35 PSF				
2. MINIMUM FLAT ROOF SNOW LOAD 3. EXPOSURE FACTOR 4. IMPORTANCE FACTOR	= 38.5 PSF = 1.0 = 1.1	MASONRY M1. DESIGN STRENGTHS:		STEEL DECK: SD1. THE DESIGN, FABRICATION, AND ERECTION OF METAL DECKING SHALL BE IN	
5. THERMAL FACTOR G4. THE FOLLOWING NON-CONTRACTUAL GEOTECHNICAL REI	= 1.1 PORT WAS DEVELOPED FOR THIS	F'm= 1500 PSI Fy = 60,000 PSI		ACCORDANCE WITH THE CURRENT EDITION OF THE SDI SPECIFICATIONS AND THE S DIAPHRAGM MANUAL	וכ
PROJECT AND IS THE BASIS OF THIS STRUCTURAL DESIG GEOTECHNICAL FIRM NAME: KUMAR & ASSOCIATES, IN ADDRESS: 5205 S. COLLEGE AVENUE, SUITE B, FORT C	N: IC OLLINS, CO, 80525	M2. GROUT FOR FILLING MASONRY CAVITIES TO BE AGGREGATE SIZE IS 3/8 INCH.	COARSE GROUT UNO, MAXIMUM COARSE	SD2. STEEL FLOOR DECK IS 1-1/2 INCH X 20 GUAGE OR 22 GAUGE GALVANIZED DECK, DES FOR THE DEAD AND LIVE LOADS INDICATED.	GNED
REPORT NUMBER: 20117 REPORT DATE: APRIL 8, 2021 ALLOWABLE NET SOIL BEARING =	2500 PSF	M3. GROUT POURS SHALL NOT EXCEED 4 FEET IN H PROVIDED IN THE BOTTOM COURSE OF THE CEI PERMISSION IS OBTAINED FOR HIGH LIFT GROU	EIGHT UNLESS CLEANOUTS ARE LL(S) TO BE GROUTED AND WRITTEN TING.	SD3. STEEL FLOOR DECK IS TO BE A STRUCTURAL DIAPHRAGM AND SHALL BE FASTENED SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS.	AS
G5. <u>SAFETY</u>		M4. RESTRICTED BAR ANCHORAGE: IN CASES WHERE REINFORCING BARS CANNOT	BE EXTENDED AS FAR AS REQUIRED, THE	SD4. THE PLANS INDICATE DECK SPAN DIRECTION. SD5. SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, AND OTHER UTILITIES SHALL NOT B	E
SAFETY AND STRUCTURE STABILITY DURING CONSTRUCT OF THE CONTRACTOR. STRUCTURES HAVE BEEN DESIGN LOADS ONLY AS A COMPLETED STRUCTURE.	ION ARE THE SOLE RESPONSIBILITY ED TO RESIST THE DESIGN LIVE	BARS SHALL EXTEND AS FAR AS POSSIBLE AND SHOP DRAWINGS AND HIGHLIGHT WITH A BOX 1 M5. ANCHOR BOLTS:	END IN STANDARD HOOK. SHOW ON TO BRING TO ENGINEER'S ATTENTION.	SUPPORTED FROM THE STEEL DECK.	
G6. <u>OPENINGS</u> OPENINGS FOR PIPES, DUCTS, CONDUITS, ETC. ARE NOT, STRUCTURAL DRAWINGS. COORDINATE AND PROVIDE OP	ALL SHOWN ON THE ENINGS AS REQUIRED TO	ALL EXPANSION AND ADHESIVE ANCHORS SHAL EQUIVALENT LOAD CAPACITY. SUBMIT AND INS	L HAVE THE ICC REPORT SHOWING TALL PER THE ICC EVALUATION REPORT.		
ACCOMMODATE ALL WORK SHOWN OR SPECIFIED IN THE OTHERWISE REQUIRED FOR THE FURNISHING OF A FUNC' REINFORCE AROUND OPENINGS PER STANDARD STRUCTI SHOWN.	CONTRACT DOCUMENTS AND FIONALLY COMPLETE PROJECT. JRAL DETAILS UNLESS OTHERWISE	DIFFERENT ELEVATIONS, EXTEND REFORCING INTERSECTING CORNER NOT LESS THAN 4 FEET	OF BOTH BOND BEAMS AROUND IF NEACH DIRECTION.		
G7. <u>SPECIAL INSPECTIONS</u> SPECIAL INSPECTIONS ARE REQUIRED IN ACCORDANCE W OF THE IBC 2015. THE CONTRACTOR SHALL PROVIDE FOR BY THE SPECIAL INSPECTOR AND SHALL PROVIDE FOR TH CONSTRUCTION SCHEDULE IN ACCORDANCE WITH THE S	VITH CHAPTER 1 AND CHAPTER 17 FULL ACCESS TO THE WORK ESE INSPECTIONS IN THE PECIFICATIONS.	WHERE BOND BEAMS AND LINTELS COINCIDE.	SEAM BLOCKS EXCEPT AT OPENINGS		
G8. <u>STANDARD DETAILS</u> THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO E CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAW SIMILAR TO THE STANDARD DETAILS. OBTAIN APPROVAL SIMILAR CONDITIONS PRIOR TO CONSTRUCTION.	E USED ON THIS PROJECT. IF NGS THEY SHALL BE MADE OF ENGINEER IN WRITING FOR				
G9. THE CONTACTOR SHALL FIELD VERIFY ALL DIMENSIONS A CONSTRUCTION AS REQUIRED TO COORDINATE NEW CON CHANGES FOR APPROVAL.	ND ELEVATIONS OF EXISTING ISTRUCTION. SUBMIT REQUIRED				
G10.CONTRACTOR TO SUBMIT FOR REVIEW ALL EQUIPMENT S VIBRATION FORCES, SUPPORT LOCATIONS, ALONG WITH J AND RECESSES REQUIRED BY SUCH EQUIPMENT. CONCRI FRAMING REQUIRED TO SUPPORT SAID EQUIPMENT SHAL PLACED UNTIL THE CONCRET SUPPORT PADS AND/OR FI SUPPORT THE EQUIPMENT.	SIZES, OPERATING WEIGHTS, ANY FLOOR OPENINGS, NOTCHES, ETE SUPPORT PADS AND/OR L NOT BE FABRICATED AND RAMING IS APPROVED TO				

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		PROJECT MANAGER	MARK H. BEEBE	
		PROJECT ENGINEER	J. LIMKE	
		STRUCTURAL	J. CORONADO	
		ARCHITECTURAL	R. MCKINLEY	
		PROCESS	S. FOX	
		I & C	C. AUDO	
		ELECTRICAL	T. MOORE	
•		TEAM 7	R. NELSON	
	ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885	

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DEFERRED SUBMITTALS		
D1. PORTIONS OF THE STRUCTURE HAVE ELEMENTS FABRICATION, WHICH SHALL BE SUBMITTED BY T SHALL CONFORM TO THE REQUIREMENTS OF PR SPECIFIED ON THIS SHEET.	3 OF PROPRIETARY DESIGN AND HE SUPPLIER FOR APPROVAL. THESE ITEMS E-ENGINEERED OTHER STRUCTURES	
D2. DEFERRED SUBMITTAL WILL BE REVIEWED BY T FOR COMPLIANCE WITH THE SPECIFIED DESIGN AND FORWARDED TO THE BUILDING DEPARTME	HE STRUCTURAL ENGINERER OF RECORD REQUIREMENTS, STAMPED AS REVIEWED, NT FOR APPROVAL.	
D3. FINAL ISSUANCE OF THE BUILDING PERMIT MAY APPROVAL OF THE DEFERRED SUBMITTAL DOCI	BE CONTINGENT ON BUILDING DEPARTMENT JMENTS.	
D4. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INS DOCUMENTS HAVE BEEN APPROVED BY THE BUI	FALLED UNTIL THEIR DESIGN AND SUBMITTAL DING DEPARTMENT.	D
D5. DEFERRED SUBMITTAL INCLUDE: 1. PRE-ENGINEERED PRECAST DOUBLE TEES 2. PRE-ENGINEERED STAIRS, WALKWAYS, AM	). ID PLATFORMS.	
PRE-ENGINEERED STRUCTURES		
P1. PRE-ENGINEERED STRUCTURES SHALL BE DESI NOTED ON THESE DRAWINGS. APPLIED LOADS. ACCORDANCE WITH 2021 INTERNATIONAL BUILD MAY BE MODIFIED TO THE APPROPRIATE LATER	SNED FOR THE STRUCTURAL DESIGN CRITERIA AND LOAD COMBINATIONS SHALL BE IN ING CODE. SEISMIC RESPONSE COEFFICIENT AL FORCE RESISTING SYSTEM.	_
P2. SUBMIT DRAWINGS AND CALCULATIONS FOR TH ENGINEER FOR APPROVAL. DRAWINGS AND CAI CONTROL AND SUPERVISION OF A COLORADO R SHALL BE SEALED AND SIGNED.	E PRE-ENGINEERED STRUCTURES TO THE CULATIONS SHALL BE PREPARED UNDER THE EGISTERED PROFESSIONAL ENGINEER AND	

P3. CONTRACTOR'S ENGINEER OR PRE-ENGINEERED STRUCTURE SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF ANY BASE PLATES AND ANCHORAGE TO EXISTING STRUCTURE ALONG WITH ALL OTHER STRUCTURAL MEMBERS AND CONNECTIONS.

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#### GENERAL STRUCTURAL NOTES

2" FILENAME 10258885\_03-S.RVT

SHEET 00S001

### SCALE 12" = 1'-0"

0 1"



			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1&C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	E. PAZ
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

RECORDING



BELT PRESS BUILDING

SCALE NO SCALE

00E601



				PROJECT MANAGER	MARK H. BEEBE
				PROJECT ENGINEER	J. LIMKE
				STRUCTURAL	J. CORONADO
				ARCHITECTURAL	R. MCKINLEY
				PROCESS	S. FOX
				1 & C	C. AUDO
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•		03/08/2021	30% DESIGN REVIEW	DRAWN	E. PAZ
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UTILITIES DEPARTMENT BELT PRESS BUILDING

### <u>KEY NOTES:</u> $\langle x \rangle$

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- I. NEW FUSES BY FORT COLLINS LIGHT & POWER, FUSE SIZE TO BE DETERMINED BY FORT COLLINS LIGHT & POWER.
   UNDERGROUND MEDIUM-VOLTAGE CIRCUIT BY FORT COLLINS LIGHT & POWER, INCLUDING TRENCHING, CONDUITS, CABLE, AND INSTALLATION.
   TRANSFORMER AND FOUNDATION BY FORT COLLINS LIGHT & POWER.
   TRANSFORMER SECONDARY CIRCUITS AND DUCT BANK BY CONTRACTOR.

#### HOLDS:

H1: TO BE UPDATED TO SHOW ELECTRIC SERVICE FROM FORT COLLINS LIGHT & POWER.

## GENERAL MEDIUM VOLTAGE PRIMARY DISTRIBUTION

FILENAME 00E602.dwg

SCALE NO SCALE

SHEET 00E602 D

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PROJECT MANAGER	MARK H. BEEBE
PROJECT ENGINEER	J. LIMKE
STRUCTURAL	J. CORONADO
CIVIL	R. MOORE
PROCESS	S. FOX
I & C	M. HUTSON
ELECTRICAL	T. MOORE
DRAWN	R. MOORE
PROJECT NUMBER	10258885

03/08/2021 30% DESIGN REVIEW

ISSUE

DATE

DESCRIPTION

OR RECORDING

UTILITIES DEPARTMENT BELT PRESS BUILDING



# CIVIL OVERALL SITE, CONTROL PLAN AND STAGING AREA

FILENAME 02C101.dwg SCALE | 1" = 40'

1

SHEET 02C101

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UTILITIES DEPARTMENT **BELT PRESS BUILDING** 

. MOORE R. MOORE PROJECT NUMBER 10258885

DRAWN

03/08/2021 30% DESIGN REVIEW

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DATE

DESCRIPTION

OR RECORDING

FILENAME 02C402.dwg SCALE 1" = 20'

SHEET 02C402



7 8 N D GENERAL NOTES: SEE TRENCH PIPE BEDDING DETAIL ON SHEET 02C500, DETAIL 1. 2. EXISTING UTILITIES SHOWN ARE QUALITY LEVEL D AND SHOWN BASED ON THEIR RELATIVE POSITION IN RECORD DRAWINGS PROVIDED BY THE CITY. - SLG-— SLG— SLG -----— SLG — - SL( DEC-DEC-----DEC-----DEC-DEC SLG-SLG-SLG-SLG CIVIL YARD PIPING AND UTILITY PLAN SHEET FILENAME 02C402.dwg 02C402 SCALE 1" = 20'



02/24/2021 30% DESIGN REVIEW

ARCHITECTURAL

PROCESS S. FOX

ELECTRICAL T. MOORE

PROJECT NUMBER 10258885

I & C C. AUDO

TEAM 7 R. NELSON

R. MCKINLEY

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ISSUE DATE

DESCRIPTION

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GENERAL SHEETS:

- REFER TO SHEETS 00S001 THRU 00S506 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. Α.
- COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER DISIPLINE DRAWINGS FOR PIPING, EQUIPMENT, ANCHORS, CONDUITS, HOUSEKEEPING SLABS, AND ANY OTHER ITEMS ATTACHED TO OR EMBEDDED IN STRUCTURAL ELEMENTS THAT MAY NOT BE SHOWN. В.





SHEET 03S101 D

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GENERAL SHEETS:

- A. REFER TO SHEETS 00S001 THRU 00S506 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- B. COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER DISIPLINE DRAWINGS FOR PIPING, EQUIPMENT, ANCHORS, CONDUITS, HOUSEKEEPING SLABS, AND ANY OTHER ITEMS ATTACHED TO OR EMBEDDED IN STRUCTURAL ELEMENTS THAT MAY NOT BE SHOWN.

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Fort Collins **BELT PRESS BUILDING PROJECT DESCRIPTION** 





GENERAL SHEETS:

- REFER TO SHEETS 005001 THRU 005506 FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. Α.
- COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER DISIPLINE DRAWINGS FOR PIPING, EQUIPMENT, ANCHORS, CONDUITS, HOUSEKEEPING SLABS, AND ANY OTHER ITEMS ATTACHED TO OR EMBEDDED IN STRUCTURAL ELEMENTS THAT MAY NOT BE SHOWN. В.



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PROJECT NUMBER 10258885





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#### ARCHITECTURAL GENERAL NOTES

- ALL GYPSUM WALL BOARD IS 5/8" THICK UNLESS NOTED OTHERWISE.
- ALL ANGLES ON PLAN ARE 45 OR 90 DEGREES UNLESS NOTED OTHERWISE.
- ALL ANGLES ON PLAN ARE 43 OR 90 DEGREES UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF MASONRY,OUTSIDE FACE OF METAL FRAME, CENTERLINE OF COLUMN OR CENTERLINE OF BEAM UNLESS NOTED OTHERWISE. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL FIELD DIMENSIONS SHALL BE VERIFIED PRIOR TO SUBMITTAL OF SHOP DRAWINGS, ORDERING RELATED MATERIALS AND PERFORMING DEMOLITION OR CONSTRUCTION WORK. ALL DIMENSIONS ALIGNING WITH OR RELATED TO EXISTING CONDITIONS ARE TO BE LAID OUT PRIOR TO COMMENCING WORK AND VERIFIED. 10. VERIFY MECHANICAL AND ELECTRICAL DRAWINGS FOR SCOPE AND INTERFACE. CONTRACTOR SHALL COORDINATE LOCATION FOR ALL MECHANICAL AND ELECTRICAL ITEMS WITH GENERAL CONSTRUCTION. REVIEW ANY DISCREPANCIES WITH THE ENGINEER PRIOR TO I INSTALLATION AND/OR FABRICATION.
- SEE MECHANICAL DRAWINGS FOR ALL ROOF PENETRATIONS WHICH 4
- MUST BE FLASHED/ROOFED AROUND. LOCATE INTERIOR CONTROL JOINTS WHERE SHOWN ON THE PLANS. 5
- AT LARGE SCALE COLUMN/PLAN DETAILS, WALL TYPES ARE INDICATED. FOR CLARITY, IN SOME INSTANCES NOT ALL STUDS AND/OR FURRING ARE SHOWN ON THE DETAILS. CONTRACTOR SHALL FRAME USING NORMAL FRAMING METHODS AND SHALL ALSO COMPLY WITH INSTRUCTIONS OUTLINED IN THE SPECIFICATIONS.
- OUTLINED IN THE SPECIFICATIONS. ALL NEW WALLS SHALL EXTEND A' THRU CEILING, UNLESS NOTED OTHERWISE ON FLOOR PLANS OR REFLECTED CEILING PLANS. ANY WOOD BLOCKING ABOVE CEILING WHICH IS LOCATED IN PLENUM SPACES USED FOR RETURN AIR MOVEMENT SHALL BE FIRE-RETARDANT TREATED OR SHALL BE COVERED WITH 5/8° FIRE-CODE GWB. TI IS THE INTENT OF THIS CONTRACT THAT ALL AREAS AFFECTED BY CONSETPLICTOR DE A ENSURED & COMPLETE DEDICAT. CONTRACTOR 9
- CONSTRUCTION BE A FINISHED & COMPLETE PROJECT. CONTRACTOR SHALL PATCH, REPAIR & ADJUST AS REQUIRED TO ACHIEVE THIS FINISHED PROJECT. ARCHITECTURAL FINISH FLOOR 100'-0" IS EQUAL TO CIVIL {\_\_\_\_\_}
- 10.

#### $\underline{\mathsf{KEYNOTES}} \langle \# \rangle$

- PROCESS EQUIPMENT; SEE PROCESS A1
- A3 BOLLARD
- APPROACH SLAB; SEE STRUCTURAL A4
- SIDEWALK; SEE STRUCTURAL A5
- PREFINISHED GUTTER & DOWNSPOUT A6
- CIP CONTAINMENT CURB; SEE STRUCTURAL Α7
- EMERGENCY EYE WASH; SEE MECHANICAL A16
- A19 EQUIPMENT PAD; SEE STRUCTURAL



FILENAME 10258885\_03\_A.rvt

SCALE 3/16" = 1'-0"

SHEET 03A101



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	PROJECT MANAGER	MARK H. BEEBE
	PROJECT ENGINEER	J. LIMKE
	STRUCTURAL	J. CORONADO
	ARCHITECTURAL	R. MCKINLEY
	PROCESS	S. FOX
	1 & C	C. AUDO
	ELECTRICAL	T. MOORE
	TEAM 7	F. M. LAST
ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885

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KEYNOTES A17 ALUMINUM RAILING 8

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## MEZZANINE PLAN SHEET FILENAME 10258885\_03\_A.rvt 03A102 SCALE 3/16" = 1'-0"



**FX** 

PROJECT MANAGER	MARK H. BEEBE
PROJECT ENGINEER	J. LIMKE
STRUCTURAL	J. CORONADO
ARCHITECTURAL	R. MCKINLEY
PROCESS	S. FOX
I & C	C. AUDO
ELECTRICAL	T. MOORE
TEAM 7	F. M. LAST
PROJECT NUMBER	10258885
	PROJECT MANAGER PROJECT ENGINEER STRUCTURAL ARCHITECTURAL PROCESS I&C ELECTRICAL TEAM 7 PROJECT NUMBER

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#### <u>keynotes</u> (#)

A8 FLOOR HATCH

- A10 PVC MEMBRANE ROOF
- A12 CAST STONE COPING
- A13 CONCRETE TANKS; SEE STRUCTURAL
- A14 PREFINISHED SCUPPER & DOWNSPOUT
- A17 ALUMINUM RAILING
- A18 ALUMINUM GATE





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TEAM 7 F. M. LAST

PROJECT NUMBER 10258885

3/01/2021 30% DESIGN REVIEW

DESCRIPTION

ISSUE DATE

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CONCRETE TAI STRUCTURAL— PROCESS EQUI PROCESS—	VKS; SEE		
1 03A101 3/16" = 1:-0"	OR ELEVATION - NORTH		
ALUMINUM GATE		B	
ALUMINUM RAILING			
2 03A101 3/16" = 1'-0"	OR ELEVATION - WEST		
<b>HDR</b>	3/01/2021 30% DESIGN REVIEW DATE DESCRIPTION	PROJECT MANAGER       MARK H. BEEBE         PROJECT ENGINEER       J. LIMKE         STRUCTURAL       J. CORONADO         ARCHITECTURAL       R. MCKINLEY         PROCESS       S. FOX         I & C       C. AUDO         ELECTRICAL       T. MOORE         TEAM 7       F. M. LAST         PROJECT NUMBER       10258885	PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING





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PREFINIHSED SCUPPER & DOWNSPOUT

PREFINISHED METAL COPING

PREFORMED METAL WALL PANELS

ROOF 5214.00

2 CAST STONE COPING-BRICK VENEER-ALUMINUM RAILING-

3

1

2





PREFINIHSED SCUPPER & DOWNSPOUT

PREFINISHED METAL; COPING

- STANDING SEAM METAL ROOFING



- BRICK VENEER

PREFINIHSED GUTTER & DOWNSPOUT

- STANDING SEAM FASCIA

PREFORMED METAL WALL PANELS

- CAST STONE WALL BASE

BOLLARD



EXTERIOR ELEVATIONS

FILENAME 10258885\_03\_A.rvt SCALE 3/16" = 1'-0"

SHEET 03A202 А

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	PROJECT MANAGER	MARK H. BEEBE
	PROJECT ENGINEER	J. LIMKE
	STRUCTURAL	J. CORONADO
	ARCHITECTURAL	R. MCKINLEY
	PROCESS	S. FOX
	I & C	C. AUDO
	ELECTRICAL	T. MOORE
3/01/2021 30% DESIGN REVIEW	TEAM 7	F. M. LAST
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ROOM F	ROOM FINISH SCHEDULE									
ROOM	ROOM WALLS CEILING									
NUMBER	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	HEIGHT	FINISH	*REMARKS
100	CHEMICAL ROOM	S	N	EXP	EXP	EXP	EXP	9' - 0"	GWB	
101	ELECTRICAL ROOM	S	N	EXP	EXP	EXP	EXP	9' - 0"	GWB	
102	BELT FILTER PRESS ROOM	S	N	EXP	EXP	EXP	EXP		ES	
103	OPERATIONS ROOM	S	N	EXP	EXP	EXP	EXP	9' - 0"	GWB	
104	UNISEX RESTROOM									
105	MEZZANINE									
106	EQ TANK 1									

#### MATERIAL AND FINISH LEGEND

FLOOR		BASE	
		N	NONE
S	CHEMICAL FLOOR SEALER	RB	RESILIENT BASE
HPIC-#	HIGH PERFORMANCE INDUSTRIAL COATING		
VCT	VINYL COMPOSITE TILE		
WALLS		CEILING	
AP-#	ARCHITECTURAL PAINT NO. #	ACT	ACOUSTICAL CEILING TILE
BRK	BRICK	С	CONCRETE - NO PAINT
CF-#	CONCRETE FINISH NO. #	ES	EXPOSED STRUCTURE - NO PAINT
EXP	CONCRETE MASONRY UNITS - NO PAINT	GWB	GYPSUM WALL BOARD
GFMU	GROUND FACE CONCRETE MASONRY UNITS	HPIC-#	PAINTED STRUCTURE WITH HPIC NO. #
HPIC-#	HIGH PERFORMANCE INDUSTRIAL COATING NO. #		
VWC	VINYL WALL COVERING		
		-	

NOTES: 1. SEE DRAWINGS FOR WALL TYPES.

REMARKS: 1. PROVIDE CONCRETE FINISH NO. 5 WHERE CONCRETE WALLS ARE INDICATED TO BE PAINTED; SEE SPECIFICATION SECTION 03348. 2. PAINTED STEEL STRUCTURE. SEE DRAWINGS FOR HEIGHT.





FRAME TYPES

### `NOTES: 1. ALL GLASS IN DOORS SHALL BE TEMPERED SAFETY GLAZING.



WALL TYPES

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		PROJECT MANAGER	MARK H. BEEBE
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		ARCHITECTURAL	R. MCKINLEY
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Fort Collins UTILITIES DEPARTMENT **BELT PRESS BUILDING** 

4				1			5			6					1	
DOOR	SC	HEDUL	.E													
			DOOR FRAME							DETAILS						
DOOR NUMBER		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	TYPE	MATERIA L	FINISH	GLASS	RATING	HARDWARE SET	HEAD	JAMB	SILL	*REMARKS
1004		2' 0"	7' 2"	E	A1	AN	1	A1								
100A		3'-0"	7'-2	г	AL	AN	1	AL	AN	-	-					
100D		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
101B		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
102B		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
102C		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
102D		16' - 0"	14' - 0"	RO	ST	FAP	-	GS	PT	-	-					
103A		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
104A		3' - 0"	7' - 2"	F	AL	AN	1	AL	AN	-	-					
XXX			1' - 6"													
		L AND	FINISH	LEGE	END					FINIS	н					
AL	ALL	JMINUM								ANO	AN	ODIZED				
HM	HO		TAL							PT	PA	NT				
ST	STE	EEL	JSIEEL													
											_					
NOTES: 1. SEE DOOR TYPES DETAIL THIS SHEET FOR DOOR ELEVATIONS. 2. SEE FRAME TYPES DETAIL THIS SHEET FOR FRAME ELEVATIONS.																
REMARKS	S: DIAT	E POWER	R, CONDU	IT AND	DOOR CONTR	OL MOUNTIN	IG WITH	I ELECTRIC	AL							

1			
MATER	AL	FINISH	
AL	ALUMINUM	ANO	ANODIZED
HM	HOLLOW METAL	PT	PAINT
GS	GALVANIZED STEEL		
ST	STEEL		

## SCHEDULES & WALL TYPES

FILENAME 10258885\_03\_A.rvt SCALE As indicated

SHEET 03A601

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	PROJECT MANAGER	MARK H. BEEBE
	PROJECT ENGINEER	J. LIMKE
	STRUCTURAL	J. CORONADO
	ARCHITECTURAL	R. MCKINLEY
	PROCESS	S. FOX
	I & C	C. AUDO
	ELECTRICAL	T. MOORE
03/08/2021 30% DESIGN REVIEW	DRAWN	P. VELEZ
ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885

CONSTRUCTION OR RECORDING



SHEET 03D101



ISSUE DATE

DESCRIPTION

RECORDING

PROJECT NUMBER 10258885

SCALE 1/4" = 1'-0"

03D301

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**HD** 

	PROJECT MANAGER	MARK H. BEEBE
	PROJECT ENGINEER	J. LIMKE
	STRUCTURAL	J. CORONADO
	ARCHITECTURAL	R. MCKINLEY
	PROCESS	S. FOX
	MECHANICAL	J. GREEN
	ELECTRICAL	T. MOORE
·	DRAWN BY	D. CANNON
ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING





FILENAME 10258885\_03\_M.rvt SCALE 3/16" = 1'-0"

SHEET 03M101

1   2   3   4   5   6						
	1	2	3	4	5	6

IDENTIFICATION	MFR.	MODEL	MATCHED SYSTEM COMPONENT	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH	REFRIGERANT	EER	AMBIENT TEMP. °F	APPROX. OPER. WEIGHT	ELEC MCA	ELEC VOLTAGE	LOW AMB. CONTROL °F	REMARKS
CU-01	DAIKIN	RX18AXVJU	FCU-01	18,000	12,700	R-410-A	12.5	95	100	16.4	208/1/60	0	Í
CU-02	DAIKIN	RX09AXVJU	FCU-02	8,900	5,700	R-410-A	12.5	95	60	8.7	208/1/60	0	
CU-03	DAIKIN	RX09AXVJU	FCU-03	8,900	5,700	R-410-A	12.5	95	60	8.7	208/1/60	0	

	FAN SCHEDULE											
IDENTIFICATION	SERVICE AREA	MFG.	MODEL	RATED AIRFLOW- HIGH (CFM)	RATED AIRFLOW - LOW (CFM)	ESP (IN. WG)	DRIVE	RPM	ELEC. HP OR W	ELEC. V/PH/HZ	MOUNTING	REMARKS
EF-01	RESTROOM	GREENHECK	SP-B110ES	75	-	0.30	DIRECT	650	10 W	120/1/60	CEILING	2
EF-02	BFP MAIN EQUIPMENT AREA	GREENHECK	CUE-200-VG	5,940	2,970	0.35	DIRECT	1165	2 HP	460/3/60	WALL	1
Notes												

1. WALL MOUNTED EXHAUST FAN SHALL BE PROVIDED WITH: A BACKDRAFT DAMPER B. REMOTE WALL-MOUNTED FAN SPEED CONTROLLER WITH CLEAR PLASTIC GUARD C. FAN-MOUNTED DISCONNECT

2. INTERLOCK FAN WITH LIGHT SWITCH

		HE	ATER S	CHEDULE					
IDENTIFICATION	SERVICE AREA	MFG.	MODEL	HEATER TYPE	MOUNTING HEIGHT (FT)	HEAT OUTPUT (KW)	ELEC. V/PH/HZ	AMP DRAW	REMARKS
UH-01	BFP MAIN EQUIPMENT AREA	INDEECO	UHIR	ELECTRIC	10	15	460/3/60	18.44	1, 2
UH-02	BFP MAIN EQUIPMENT AREA	INDEECO	UHIR	ELECTRIC	10	15	460/3/60	18.44	1, 2
UH-03	BFP MAIN EQUIPMENT AREA	INDEECO	UHIR	ELECTRIC	10	15	460/3/60	18.44	1, 2
UH-04	BFP MAIN EQUIPMENT AREA	INDEECO	UHIR	ELECTRIC	10	15	460/3/60	18.44	1, 2
UH-05	BFP MAIN EQUIPMENT AREA	INDEECO	UHIR	ELECTRIC	10	15.0	460/3/60	18.44	1, 2
UH-06	CHEMICAL ROOM	INDEECO	UHIR	ELECTRIC	8	7.5	460/3/60	9.39	1, 2

Notes 1. PROVIDE WALL-MOUNTED THERMOSTAT/CONTROLLER 2. PROVIDE WITH NON-FUSED DISCONNECT

		IEDULE								
IDENTIFICATION	SERVICE AREA	MFG.	SIZE (W"xH")	FLOW RATE (CFM)	MODEL	DAMPER	FREE AREA (%)	DEPTH (IN)	NOT	
LVR-01	BFP MAIN EQUIPMENTE AREA	RUSKIN	48 X 36	2,970	ELF6375DX	MOTORIZED	57		1	
LVR-02	BFP MAIN EQUIPMENTE AREA	RUSKIN	48 X 36	2,970	ELF6375DX	MOTORIZED	57		1	
OTES										
. PROVIDE INSECT SCRE	EEN									

FAN COIL UNIT SCHEDULE										
					COIL DATA					
IDENTIFICATION	MFR.	MODEL	LOCATION	CFM		E	AT	CAPACITY	REMARKS	
				(HI/LOW)	SERVICE	°F DB	°F WB	(BTUH)		
5011.04	DAIKIN	ETV/00/00/	ELEO DOOM	716/467	HEATING	80		12,700		
FC0-01	DAIKIN	FIXTBAXVJU	ELEC ROOM	/10/407	COOLING	80		1,800		
5011.00	DAIKIN	ETYODAY(	DECTROOM	101/010	HEATING	70		5,700		
FC0-02	DAIKIN	FIXU9AXVJU	RESTROOM	431/249	COOLING	75		8,900		
5011.00	DAIKIN			404/040	HEATING	70		5,700		
FC0-03	DAIKIN	FIXU9AXVJU	UPS ROOM	431/249	COOLING	75		8,900		
		·								

Fort Collins UTILITIES DEPARTMENT **BELT PRESS BUILDING** 

		PROJECT MANAGER	MARK H. BEEBE	
		PROJECT ENGINEER	J. LIMKE	
		STRUCTURAL	J. CORONADO	
		ARCHITECTURAL	R. MCKINLEY	
		PROCESS	S. FOX	
		MECHANICAL	J. GREEN	
		ELECTRICAL	T. MOORE	
•		DRAWN BY	D. CANNON	
	ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885	
		•		

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING

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## **INIT SCHEDULE**

MECHANICAL SCHEDULES

FILENAME 10258885\_03\_M.rvt SCALE 12" = 1'-0"

SHEET 03M601 D

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PROJECT MANAGER MARK H. BEEBE PROJECT ENGINEER J. LIMKE STRUCTURAL J. CORONADO PRELIMINARY FC ARCHITECTURAL R. MCKINLEY NOT FOR CONSTRUCTION PROCESS S. FOX MECHANICAL J. GREEN OR ELECTRICAL T. MOORE RECORDING DRAWN BY D. CANNON ISSUE DATE DESCRIPTION PROJECT NUMBER 10258885





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								TANKL	ESS ELE		C WAT	ER HE	ATER	SCHEDU	LE
								IDENTIFICATION	MFR.	MODEL	MBH OUTPUT	KILOWATTS	RECOVERY RATE (GPM)	WATER TEMP. RISE (°F)	REMARKS
								EWH-01	EEMAX	AP072480	245,674	72	5.0	88	
								EWH-02	EEMAX	AP072480	245,674	72	5.0	88	

	PROJECT MANAGER	MARK H. BEEBE
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	MECHANICAL	J. GREEN
	ELECTRICAL	T. MOORE
	DRAWN BY	D. CANNON
ISSUE DATE DESCRIPTION	PROJECT NUMBER	10258885
		PROJECT MANAGER PROJECT ENGINEER PROJECT ENGINEER STRUCTURAL ARCHITECTURAL PROCESS MECHANICAL ELECTRICAL DRAWN BY ISSUE DATE DESCRIPTION PROJECT NUMBER

PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING



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**F** 

			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1 & C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	E. PILAPIL
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

CONSTRUCTION OR RECORDING



UTILITIES DEPARTMENT BELT PRESS BUILDING FILENAME 03E601.dwg SCALE NO SCALE

SHEET 03E601



**H** 

			PROJECT MANAGER	MARK H. BEEBE
			PROJECT ENGINEER	J. LIMKE
			STRUCTURAL	J. CORONADO
			ARCHITECTURAL	R. MCKINLEY
			PROCESS	S. FOX
			1 & C	C. AUDO
			ELECTRICAL	T. MOORE
	03/08/2021	30% DESIGN REVIEW	DRAWN	E. PILAPIL
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10258885

OR RECORDING



UTILITIES DEPARTMENT BELT PRESS BUILDING

FILENAME	03E602.dwg
SCALE	NO SCALE

SHEET 03E602