	to: Buildings 500, 1500 & 2800				STORY	DESCR	IPTION	в	(A) BLDG AREA
Address: 1800 Herring Av	é. Wilson			Zip Code: 27896	NO.	AND	USE	F	PER STORY (ACTUAL)
Owner or Authorized Agent :	City of Wilson	Phone # 2	252-399-2220 E-	Mail:		S-1 OCCUPANC S-1 OCCUPANC	Y BLDG.	1500	7,284 5,162
	City / County	Private		State	1	S-1 OCCUPANC	Y BLDG.	2800	4,604
Code Enforcement Jurisdiction	:X CityWilson	County		State		oen space area increas a. Perimeter which fr			
LEAD DESIGN PROFI						b. Total Building Per c. Ratio (F/P) =	rimeter = _		
DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL		d. W = Minimum wi e. Percent of frontage	dth of publi	c way =	
	neering & Surveying, PC Robert S. Bar		252.399.0704	robert@bartletteng.com		e sprinkler increase p a. Multi-story buildir			follows:
	neering & Surveying, PC Robert S. Bar		252.399.0704	robert@bartletteng.com		b. Single story buildi ilimited area applicab	$I_s = 300$	percent	Sections (507)
	neering & Surveying, PC <u>Robert S. Bar</u> neering & Surveying, PC Robert S. Bar		252.399.0704 252.399.0704	robert@bartletteng.com robert@bartletteng.com	-	aximum Building Are			
Plumbing			252.399.0704		⁵ Th	e maximum area of p	arking gara	iges must c	omply with 406.
	neering & Surveying, PC Robert S. Bar		232.399.0704	robert@bartletteng.com					ALLO
Struct Metal Bldg.					-		ALLOV (TABL		INCREA SPRIN
Struct Framing Structural - Fnd. Bartlett Engi	neering & Surveying, PC Robert S. Bar	:lett 20106	252.399.0704	robert@bartletteng.com	- Type of	Construction	(ype ∨−B
2018 NORTH CAROLINA	E New Construction Addi	tion 🔲 Up Fit	Change of Oc		Building	g Height in Feet	4(r	H+20' = N
EXISTING BUIDING COD				cupancy	Building	g Height in Stories		1	Stories + 1 =
CONSTRUCTED: (date) RENOVATED: (date)	ORIGINAL USE(s) (.				FIRE RES
KENOVATED. (date)								FIRE	
BUILDING DATA						BUILDING ELEM	ENT	SEPARA DISTAN (FEE)	ICE REQUIR
Construction Type :	I-A II-A	III-A IV	V-A			al frame, including co	olumns,	N/A	· ·
	☐ I-B ☐ II-B [] Partial ☐ YES ☐ NFPA 1	☐ III-B 3	∑ V-B		girders, Bearing				
Standpipes : X NO		III Wet Dry			Exter No	rior orth			
	YES (Primary) 45'	Flood Hazard Area: 🔀 No	YES		Ea W	est			
GROSS BUILDING AREA :					Sc	outh ior			
FLOOR 6th Floor	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-	TOTAL	Nonbeau Exter	ring walls and partitic	ons	>10	0 HOL
5th Floor						orth		>10	O HOU
4th Floor 3th Floor					W	est		>10	O HOL
2nd Floor					Interi	ior walls and partition onstruction	15		
Bldg. 500 Bldg. 1500	7,285		7,2		includin	g supporting beams a	and joists		
Bldg. 2800	5,162 4,604		4,6		includin	g supporting beams	and joists		
TOTAL :					Shafts E	Enclosures - Exit Enclosures - Other			
	ALI	LOWABLE AREA			Occupar	r Separation ncy Separation			
Primary Occupancy : Assembly (303)	A-1 A-2 A-3 A-4	□ 4-5			Smoke I	re Wall Separation Barrier Separation			
Business (304)						Separation tal Use Separation			
Educational (305)					*Indicate	s section number perr	nitting redu	iction.	
Factory (306)	F-1 Moderate F-2 Low								C A DDDD 7 C
Factory (306) Hazardous (307)	F-1 Moderate F-2 Low H-1 Detonate H-2 Deflagrate	H-3 Combust	H-4 Health 🔲 H-	5 HPM		T 1.1.1			SAFETY S
Hazardous (307) Institutional (308)	H-1 Detonate H-2 Deflagrate I-1 I-2 I-3 I-4		H-4 Health 🔲 H-	5 HPM	Emergenc Exit Sign:	cy Lighting: s:		LIFE No No	SAFETY S Yes Yes
Hazardous (307) Institutional (308) I-3 Con Mercantile (309)	H-1 Detonate H-2 Deflagrate I-1 I-2 I-3 I-4 dition 1 2 3	H-3 Combust	H-4 Health 🔲 H	5 НРМ	Exit Sign Fire Alar	s: m:		☐ No ☐ No ⊠ No	⊠ Yes ⊠ Yes □ Yes
Hazardous (307) Institutional (308) I-3 Con	H-1 Detonate H-2 Deflagrate I-1 I-2 I-3 I-4 dition 1 2 3 R-1 R-2 R-3 R-4	4 5	H-4 Health 🔲 H	5 HPM	Exit Sign Fire Alar	s: m: etection Systems:		No No	🗙 Yes 🔀 Yes
Hazardous (307) Institutional (308) I-3 Con Mercantile (309) Residential (310) Storage (311)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	□ 4 □ 5 .ow □ High-Piled	_	5 НРМ	Exit Sign Fire Alari Smoke D	s: m: etection Systems:		 No No No No No No No 	☑ Yes☑ Yes☑ Yes☑ Yes
Hazardous (307) Institutional (308) I-3 Con Mercantile (309) Residential (310)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	□ 4 □ 5 .ow □ High-Piled	_	5 HPM	Exit Sign: Fire Aları Smoke D Panic Har Life Safe	s: m: etection Systems: rdware: ty Plan Sheet #:		□ No □ No ○ No ○ No ○ No LIF	 ∑ Yes ∑ Yes ☐ Yes ☐ Yes ☐ Yes
Hazardous (307) Institutional (308) I-3 Con Mercantile (309) Residential (310) Storage (311)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	□ 4 □ 5 .ow □ High-Piled	_	5 HPM	Exit Sign: Fire Alari Smoke D Panic Har Life Safe	s: m: etection Systems: rdware: ty Plan Sheet #:] Fire and/or smoke	rated wall l	□ No □ No ○ No ○ No ○ No LIFI − ocations (C	X Yes X Yes Yes Yes Yes E SAFETY
Hazardous (307) Institutional (308) I-3 Con Mercantile (309) Residential (310) Storage (311) Utility and Misc. (312)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	□ 4 □ 5 .ow □ High-Piled	_	5 HPM	Exit Sign: Fire Alari Smoke D Panic Har Life Safe	ty Plan Sheet #:	rated wall lo property lin ing area wit	□ No □ No ○ No ○ No ○ No □ LIF □ ocations (C e locations th respect to	 Yes Yes Yes Yes Yes SAFETY
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ALTERATIONS TO: BUILDINGS 500, 1500 & 2800 1800 HERRING AVE. WILSON, NC 27896

2018 APPENDIX B BUILDING CODE SUMMARY

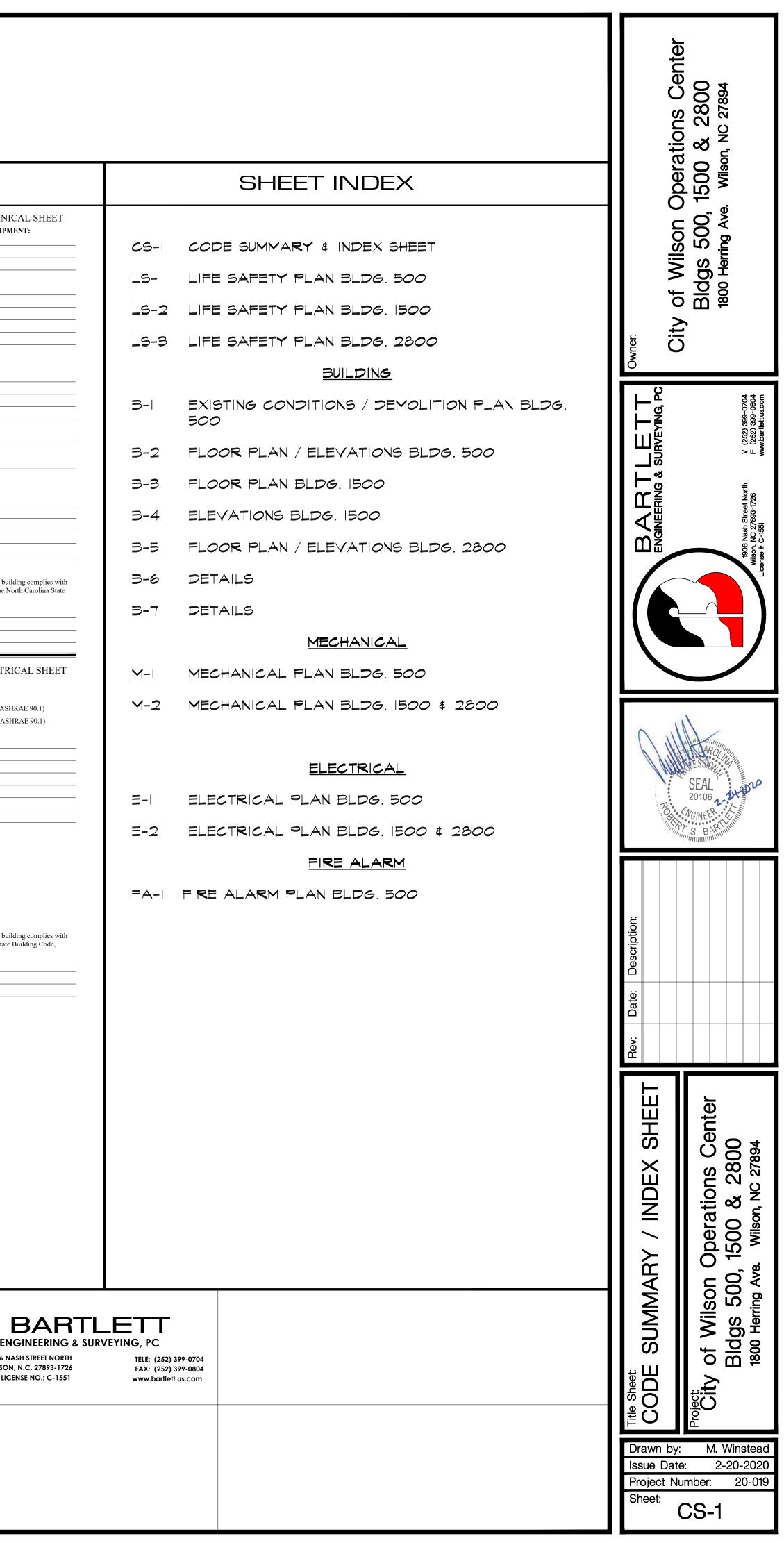
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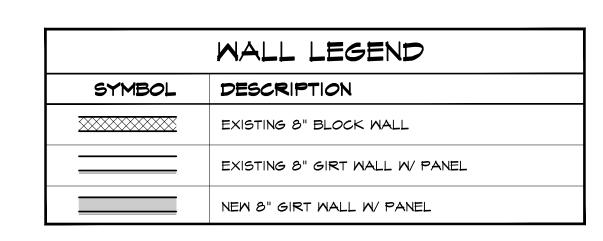
SPECIAL APPROVALS	MECHANICAL SUMMARY SEE MECHANICAL SHEET
cial approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)	MECHANICAL SYSTEMS SERVICE SYSTEMS AND EQUIPMENT: Thermal Zone
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	Interior Design Conditions
	Winter dry bulb
STRUCTURAL DESIGN EXISTING	Summer dry bulb
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Snow (I_s) Seismic (I_r)	Building Cooling Load
Loads: Roof	Mechanical Spacing Conditioning System Unitary
Coll. load	Description of unit
Second Floor und Snow Load:	Heating efficiency
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Exposure Category	Size category of unit
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Spectral Response Acceleration S_s % G S_1 % G Site Classification (Table 1613.5.2) \Box A \Box B \Box C \Box D \Box E \Box F	Equipment Schedules with Motors (mechanical systems)
Data source: Field Test Presumptive Historical Data	Motor horsepower
Basic Structural System: (check one)	Number of phases
Bearing Wall Dual W/ Special Moment Frame	Minimum efficiency
Building Frame Dual W/ Intermediate R/C or Special Steel Moment Frame Inverted Pendulum	Motor type
	# of poles
Analysis Procedure: Simplified Modal Equivalent Lateral Force	DESIGNER STATEMENT:
Architectural, Mechanical, Components Anchored? 🗌 Yes 🗌 No	To the best of my knowledge and belief, the design of this building complies with the mechanical systems, and equipment requirements of the North Carolina State
TERAL DESIGN CONTROL: 🔲 Earthquake 🕅 Wind	Building Code, Volume X-Energy.
IL BEARING CAPACITIES:	Signed:
d Test (provide copy of test report) psf	Name:
umptive Bearing Capacity 2000 psf	Title:
Size, Type, and Capacity	
ECIAL INSPECTIONS REQUIRED: 🔲 Yes 🔲 No	ELECTRICAL SUMMARY SEE ELECTRICAL SHEET
	ELECTRICAL SYSTEM AND EQUIPMENT:
ERGY SUMMARY	Method of Compliance :
ERGY REOUIREMENTS:	Prescriptive (Energy Code) Prescriptive (ASHRAE 90.1)
following data shall be considered minimum and any special attribute required to meet	Performance (Energy Code) Performance (ASHRAE 90.1)
energy code shall also be provided. Each Designer shall furnish the required portions of project information for the plan data sheet. If performance method, state the annual	Lighting Schedule
gy cost for the standard reference design vs annual energy cost for the proposed design.	Lamp type required in fixture
Climate Zone : 🛛 3 🔲 4 🛄 5	Ballast type used in fixture
Method of Compliance :	Number of ballasts in fixture
Prescriptive (Energy Code) Prescriptive (ASHRAE 90.1)	Total wattage per fixture
Performance (Energy Code) Performance (ASHRAE 90.1)	Total interior wattage specified -vs- allowed
ERMAL ENVELOPE : Roof/Ceiling Assembly (each assembly)	Total exterior wattage specified -vs- allowed
Description of AssemblyBLANKET	Additional Prescriptive Compliance
U-value of Total Assembly	506.2.1 More Efficient Mechanical Equipment
R-value of Insulation R-38	506.2.2 Reduced Lighting Power Density
Skylights in each assembly	506.2.3 Energy Recovery Ventilation Systems 506.2.4 Higher Efficiency Service Water Heating
U-Value of skylight	506.2.5 On-Site Supply of Renewable Energy
Total square footage of skylights in each assembly	506.2.6 Automatic Daylighting Control Systems
Exterior Walls (each assembly) Description of Assembly BLANKET	DESIGNER STATEMENT:
Description of AssemblyBLANKE1	To the best of my knowledge and belief, the design of this building complies with
R-value of Insulation $R-19$	the electrical system requirements of the North Carolina State Building Code, Volume X-Energy.
Openings (windows or doors with glazing)	
U-Value of assembly	Signed:
Solar heat gain coefficient:	Name:
Projection factor:	The
Door R-Values:	
Walls below grade (each assembly)	
Description of Assembly U-value of Total Assembly	
R-value of Insulation	
Floors over unconditioned space (each assembly)	
Description of Assembly	
U-value of Total Assembly	
R-value of Insulation	
Floors slab on grade	
Description of Assembly	
U-value of Total Assembly	
Horizontal/vertical requirement	
Slab heated	
DESIGNER STATEMENT:	
To the best of my knowledge and belief, the design of this building complies with	
the thermal envelope requirements of the North Carolina State Building Code, Volume X-Energy.	
Signed:	
Signed: Name:Robert S. Bartlett	
Title:Professional Engineer	
DAWSO	
U A CONSTRUCTIO	

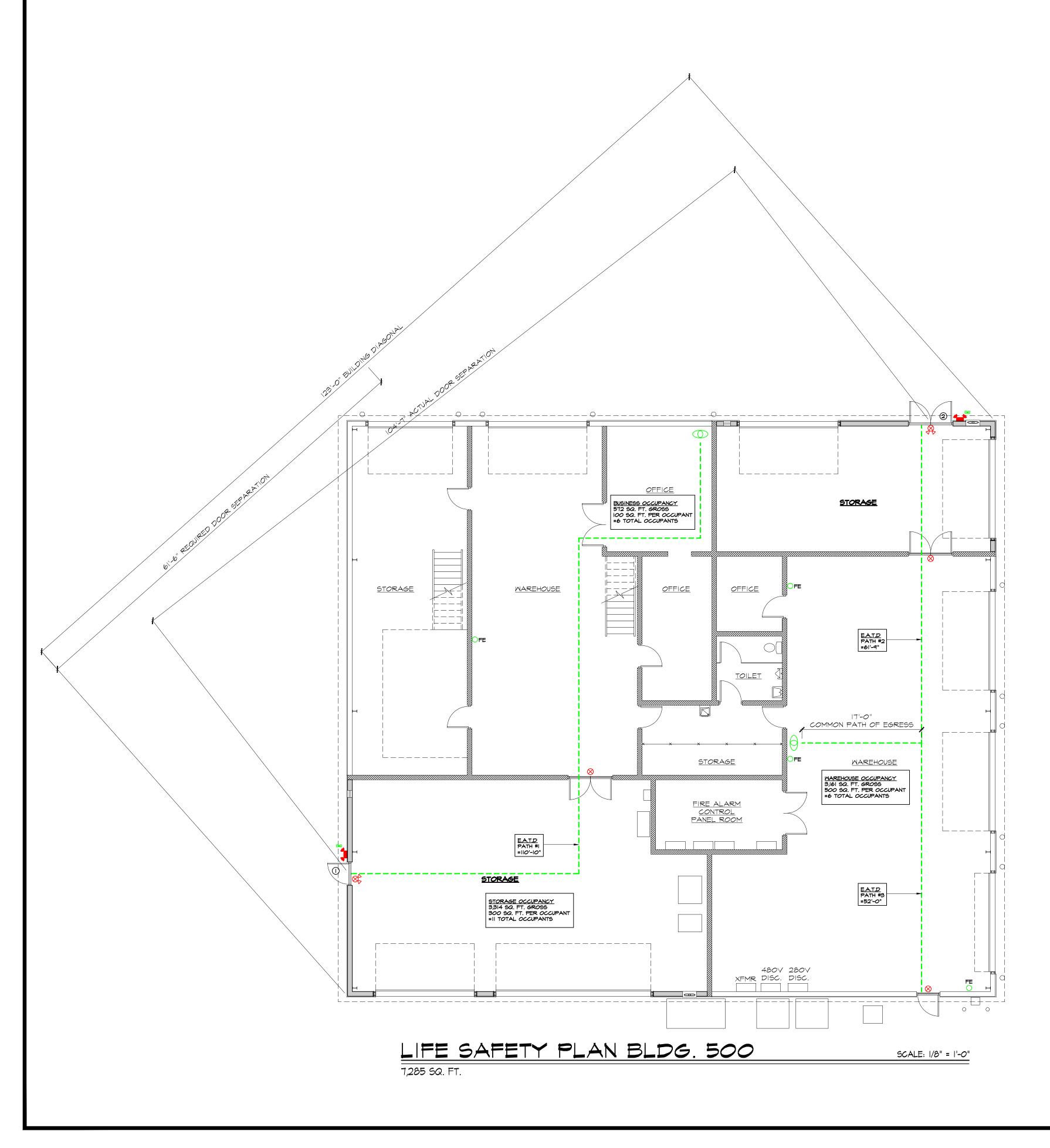


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ENGINEERING & SURVEYING, PC 6 NASH STREET NORTH SON, N.C. 27893-1726 LICENSE NO.: C-1551

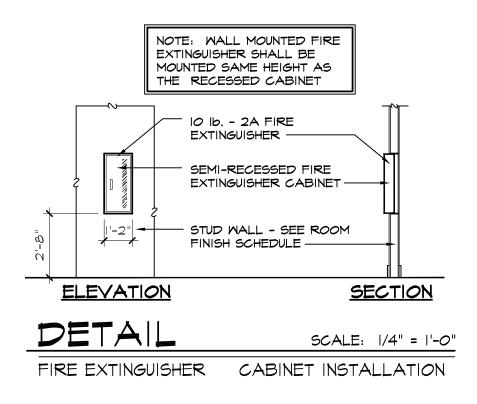




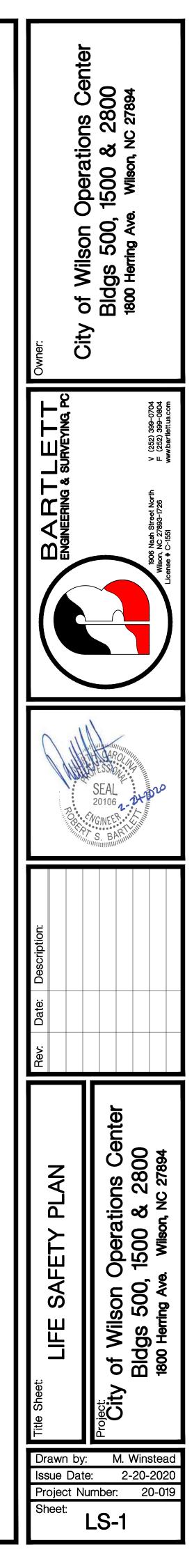


			0	CCUP/		oor L	oad i	PATA			
DOOR NUMBER	REQ'D. EXIT	CLEAR DOOR WIDTH	EGRESS WIDTH PER OCCUPANT	MAX. OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	PERCENTAGE OF REQ'D. CAPACITY	PANIC HARDWARE REQ'D.	DELAYED EGRESS LOCKS	AMOUNT OF TIME DELAY	ELECTRO- MAGNETIC LOCKS	HOLD OPEN DEVICE
I	YES	36"	0.2"	180	23	12.7%	NO	NO	N/A	NO	NO
I	YES	72"	0.2"	360	23	6.4%	NO	NO	N/A	NO	NO
			م		r door	S ARE NO			5		



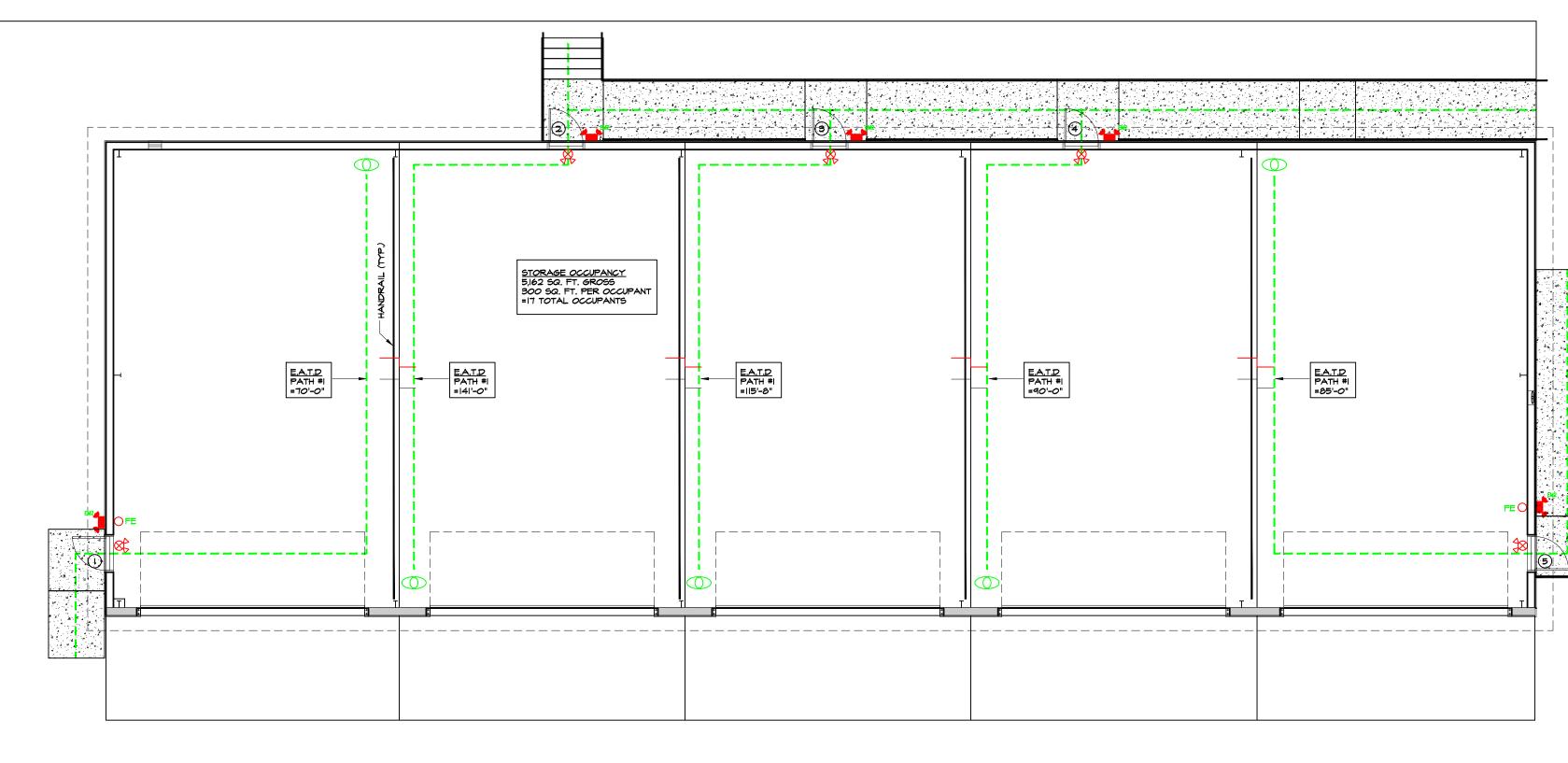


LEGEND
DESCRIPTION
PROPOSED ABC TYPE FIRE EXTINGUISHER
 ROUTE OF EXIT ACCESS TRAVEL DISTANCE
PROPOSED COMBINATION EXIT AND EMERGENCY LIGHT
EXISTING EXIT AND EMERGENCY LIGHT
PROPOSED EMERGENCY LIGHT WITH BATTERY BACKUP
PROPOSED REMOTE EMERGENCY EGRESS LIGHT POWERED BY INTERIOR EMERGENCY LIGHT BATTERY PACK, SUITABLE FOR WET/DAMP LOCATION



	WALL LEGEND
SYMBOL	DESCRIPTION
	EXISTING 8" GIRT WALL W/ PANEL
	NEW 8" GIRT WALL W/ PANEL

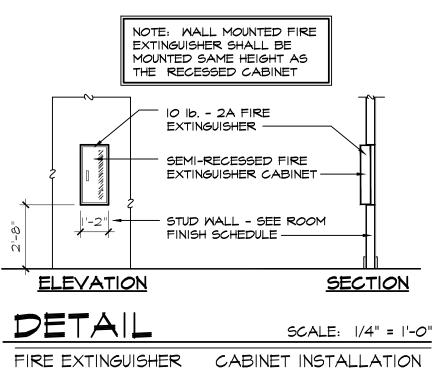
	LEGEND				0	CCUPA	ANT D	oor l	oad i	PATA			
SYMBOL	DESCRIPTION	DOOR IUMBER	REQ'D. EXIT	CLEAR DOOR WIDTH	EGRESS WIDTH PER OCCUPANT	MAX. OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	PERCENTAGE OF REQ'D. CAPACITY	PANIC HARDWARE REQ'D.	DELAYED EGRESS LOCKS	AMOUNT OF TIME DELAY	ELECTRO- MAGNETIC LOCKS	HOLD OPEN DEVICE
FE	PROPOSED ABC TYPE FIRE EXTINGUISHER	I	YES	36"	0.2"	180	17	1.8%	NO	NO	N/A	NO	NO
		2	YES	36"	0.2"	180	17	1.8%	NO	NO	N/A	NO	NO
	- ROUTE OF EXIT ACCESS TRAVEL DISTANCE	з	YES	36"	0.2"	180	17	1.8%	NO	NO	N/A	NO	NO
*		4	YES	36"	0.2"	180	17	1.8%	NO	NO	N/A	NO	NO
\otimes	PROPOSED COMBINATION EXIT AND EMERGENCY LIGHT	5	YES	36"	0.2"	180	17	1.8%	NO	NO	N/A	NO	NO
EM1	PROPOSED EMERGENCY LIGHT WITH BATTERY BACKUP				2ر	LL OTHE	r door	S ARE NO			3		
EM2	PROPOSED REMOTE EMERGENCY EGRESS LIGHT POWERED BY INTERIOR EMERGENCY LIGHT BATTERY PACK, SUITABLE FOR WET/DAMP LOCATION												





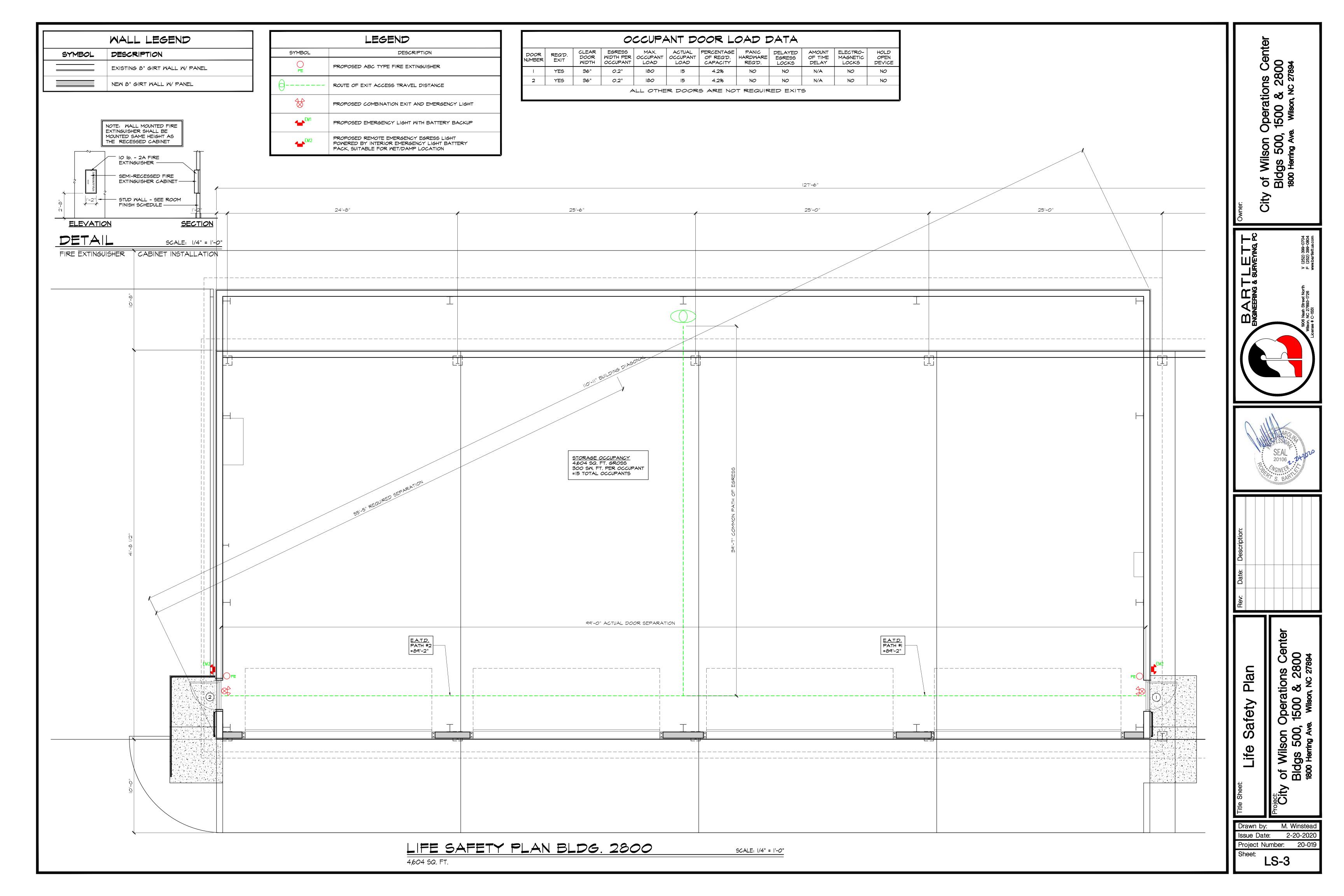


LIFE SAFETY PLAN BLDG. 1500 SCALE: |/8" = |'-0"





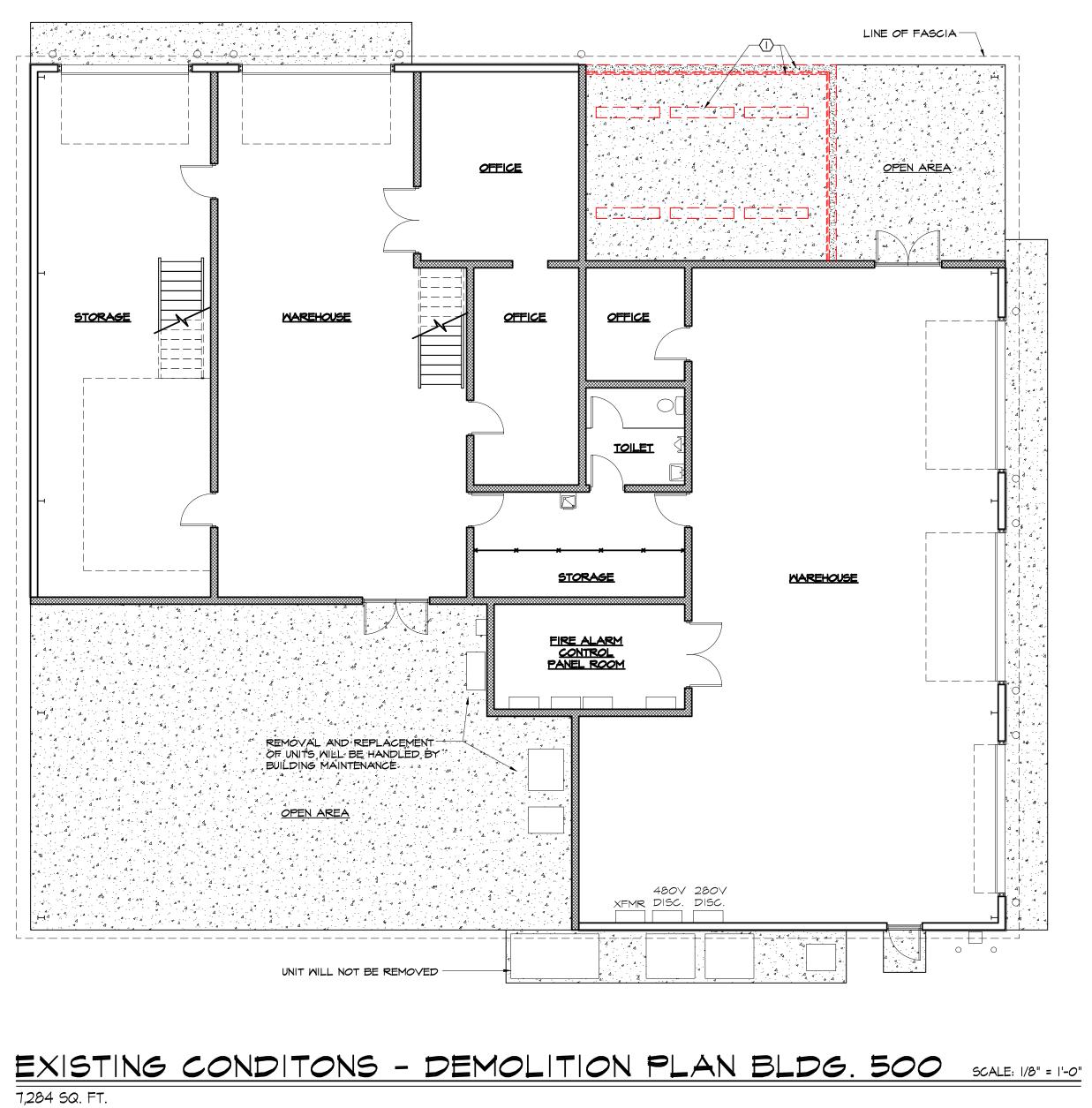
CONSTRUCTION FOR NOT PRELIMINARY



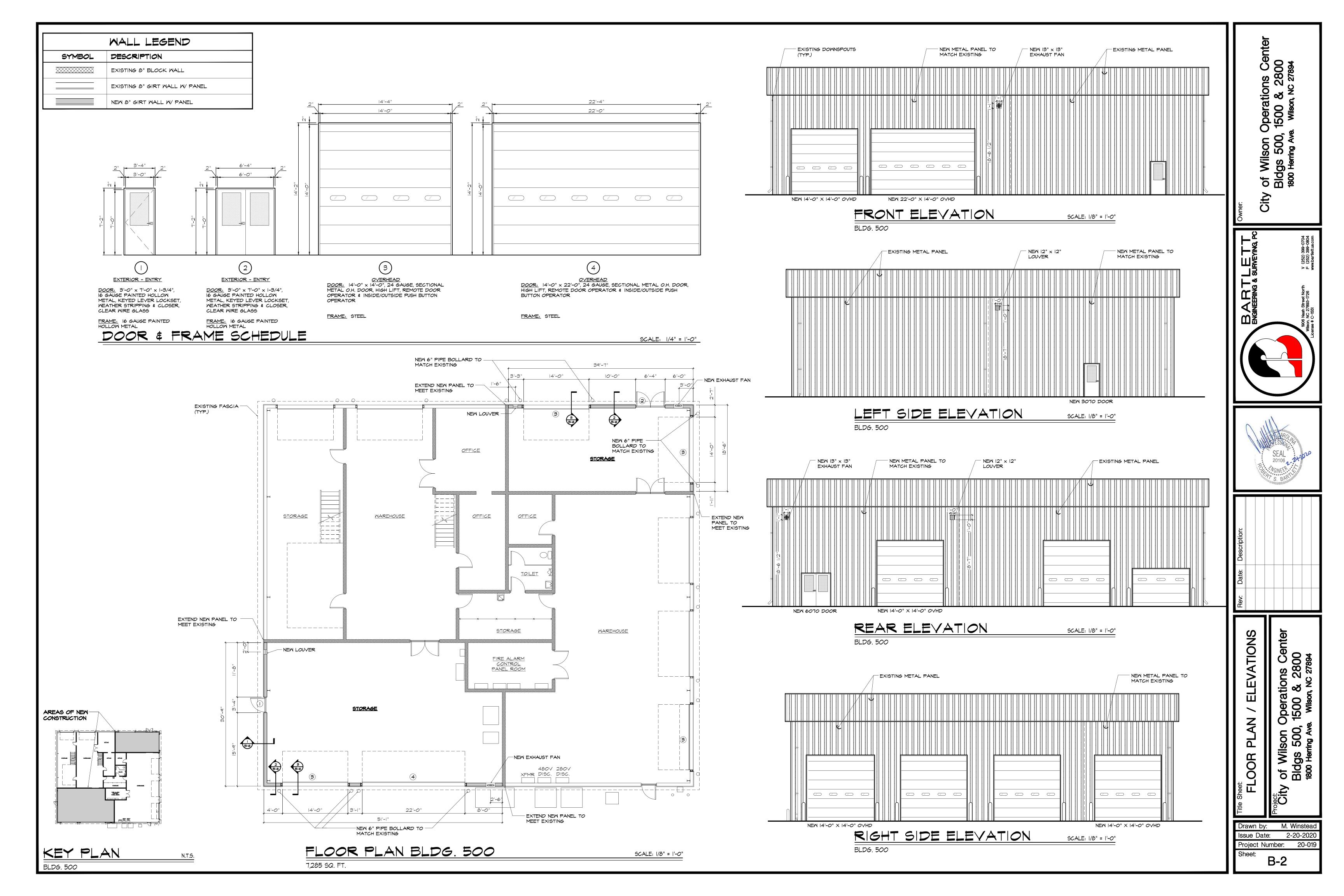
	MALL LEGEND
SYMBOL	DESCRIPTION
	EXISTING 8" BLOCK WALL
	EXISTING 8" GIRT WALL W/ PANEL

DEMOLITION NOTES:

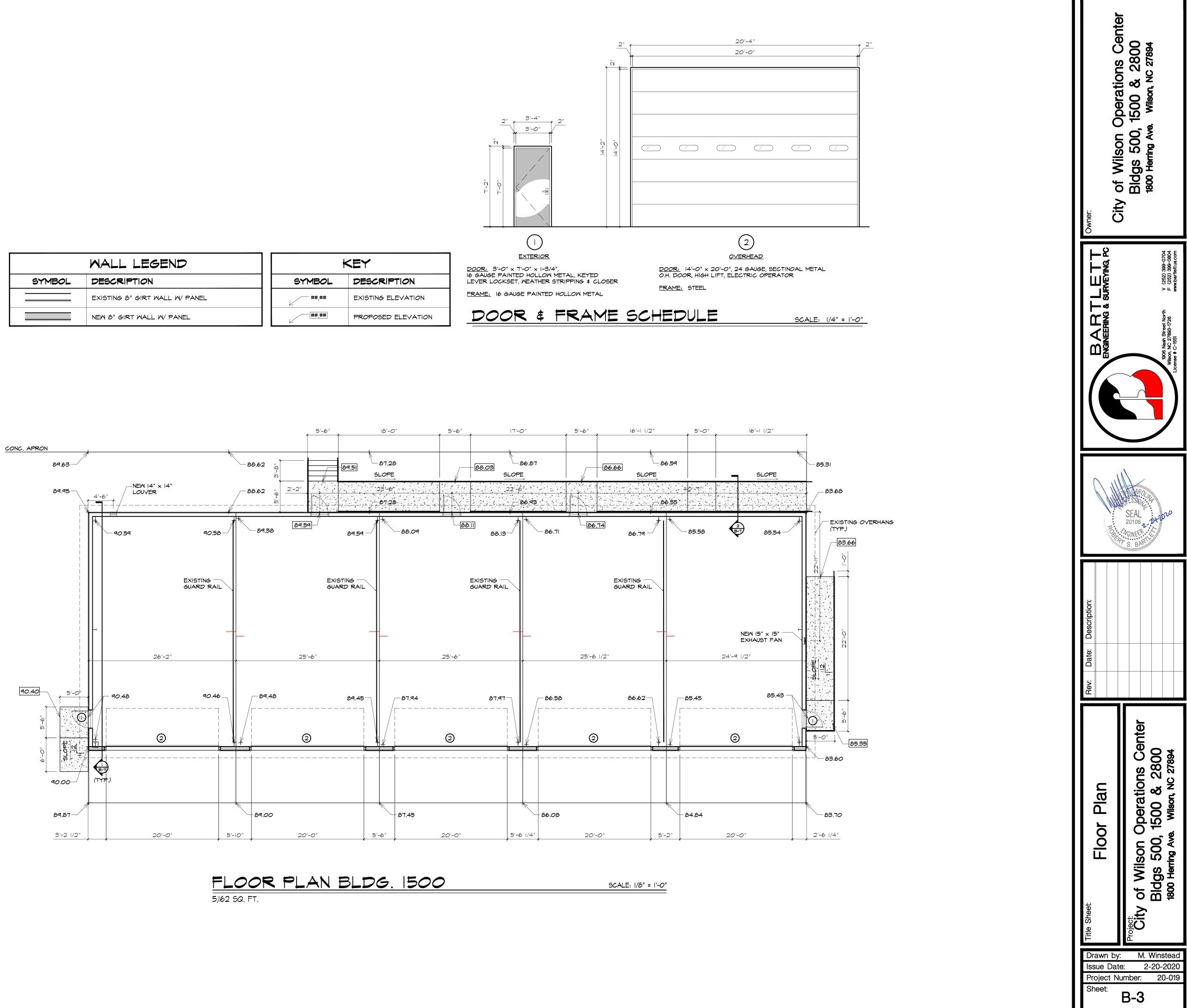
 $\langle I \rangle$ REMOVE CONCRETE CONTAINMENT WALLS AND RAILINGS

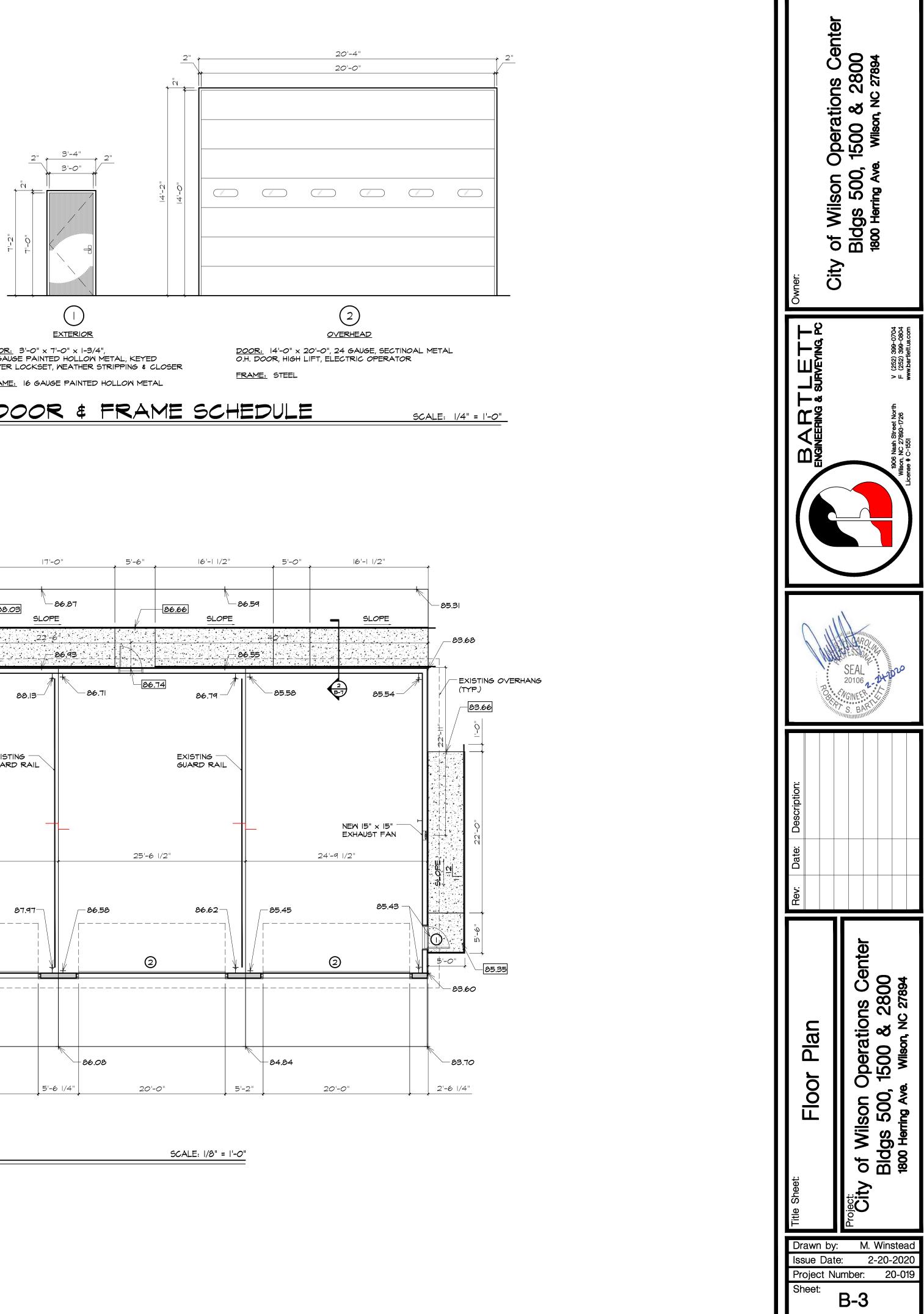


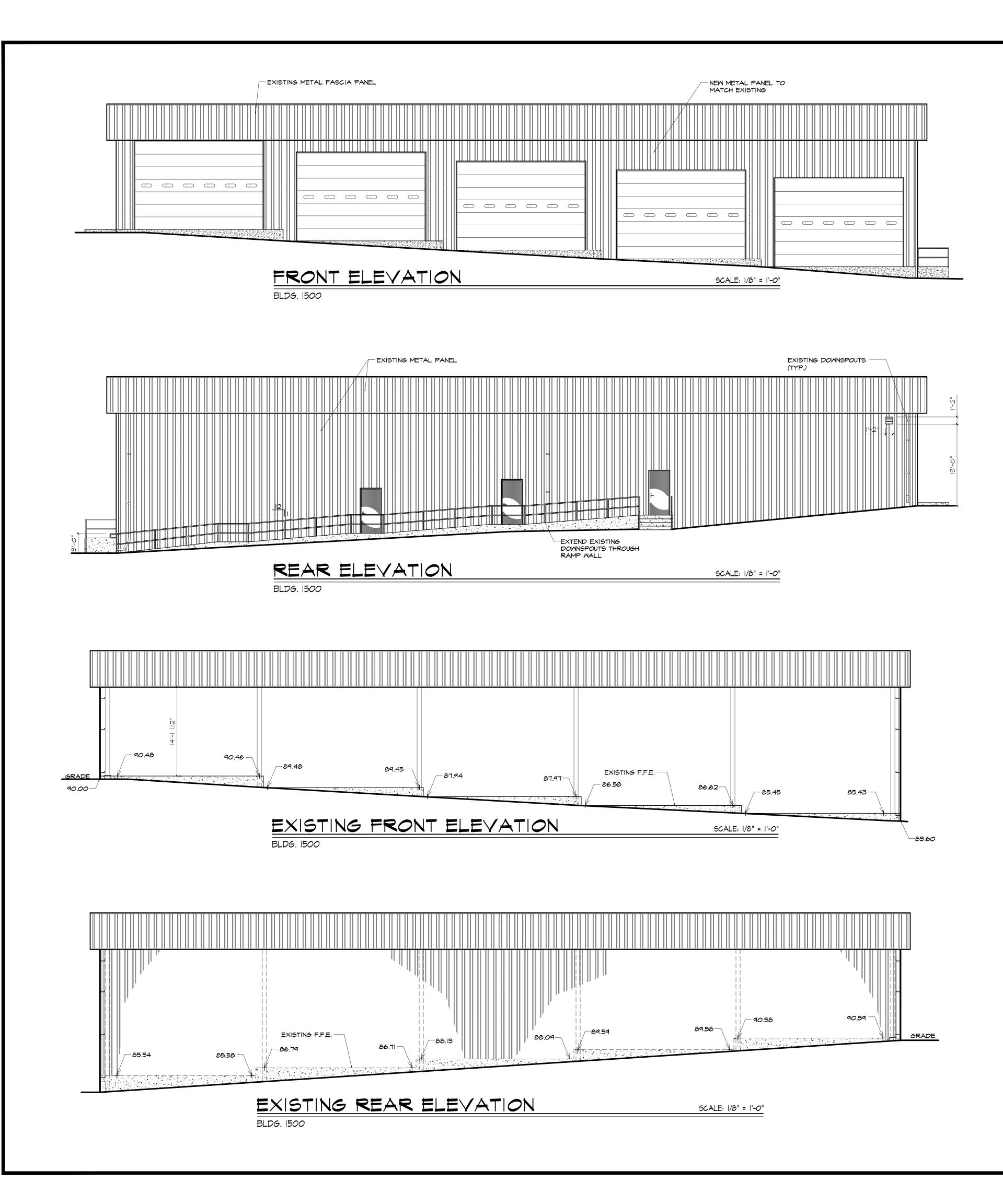


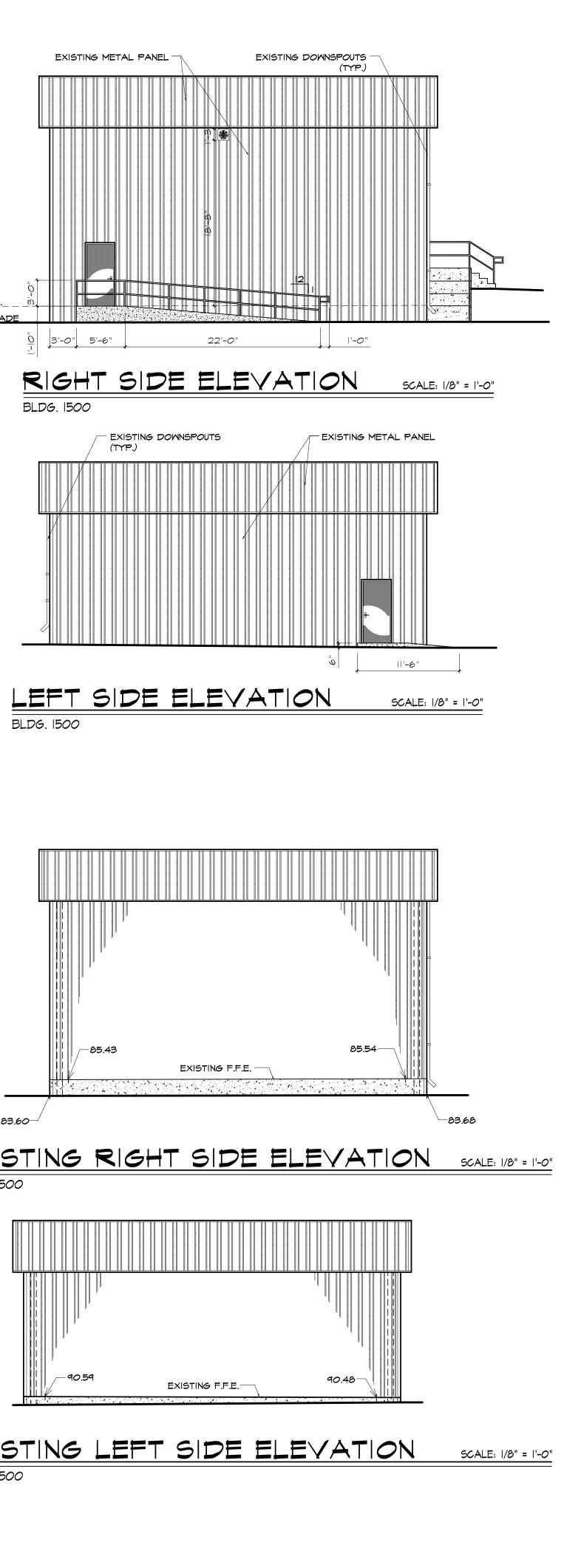


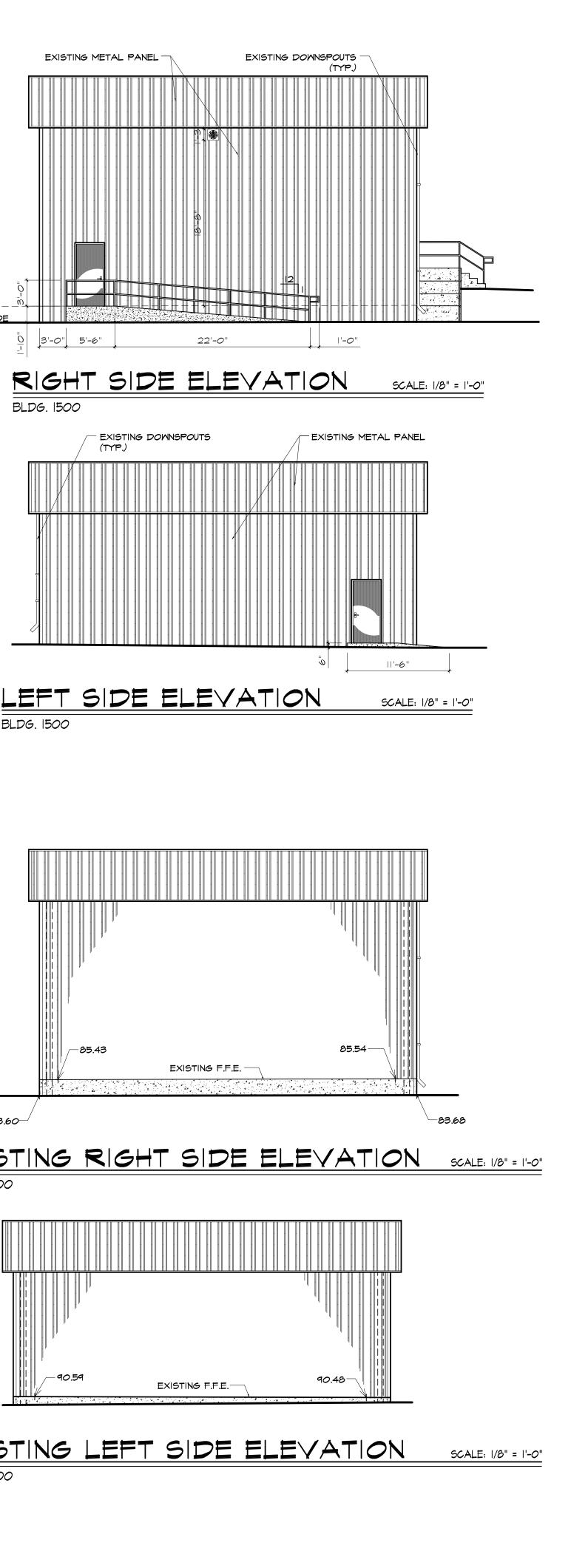
	WALL LEGEND		<ey< th=""></ey<>
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING 8" GIRT WALL W/ PANEL	##.##	EXISTING ELEVATION
	NEW 8" GIRT WALL W/ PANEL	##.##	PROPOSED ELEVATION

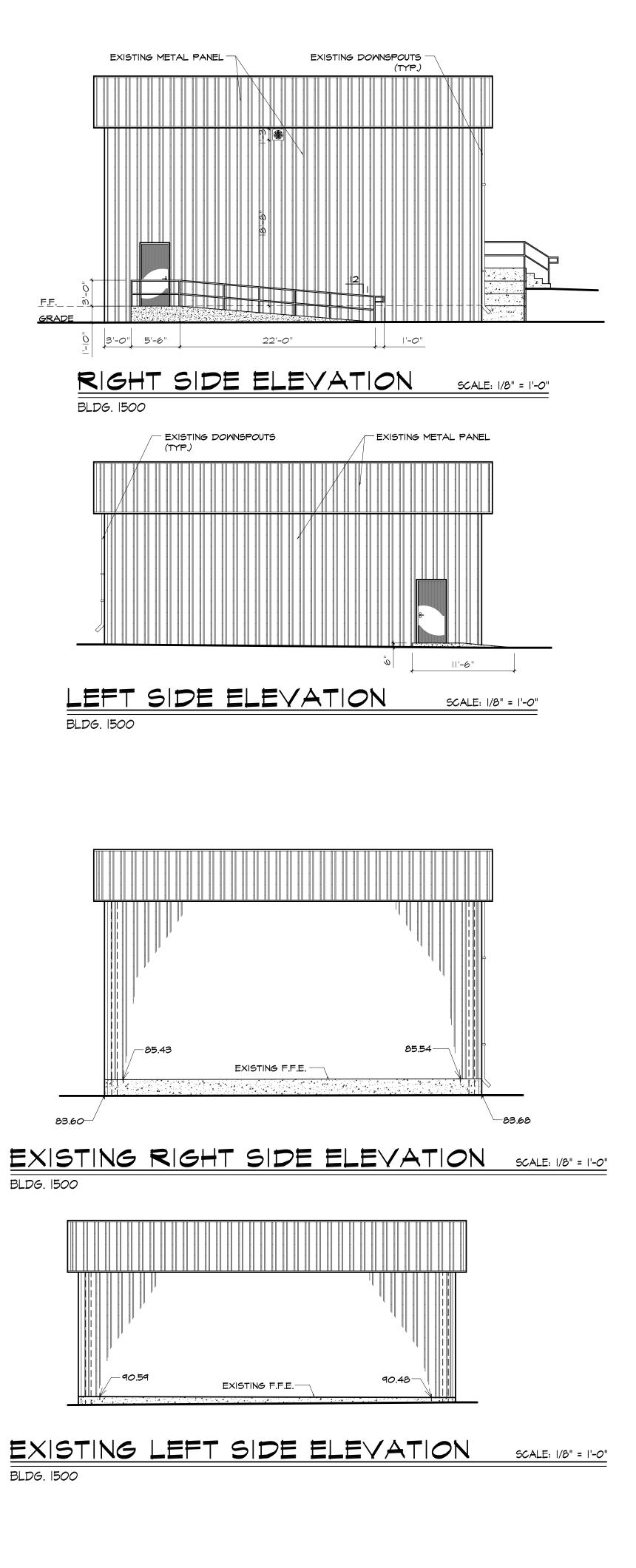




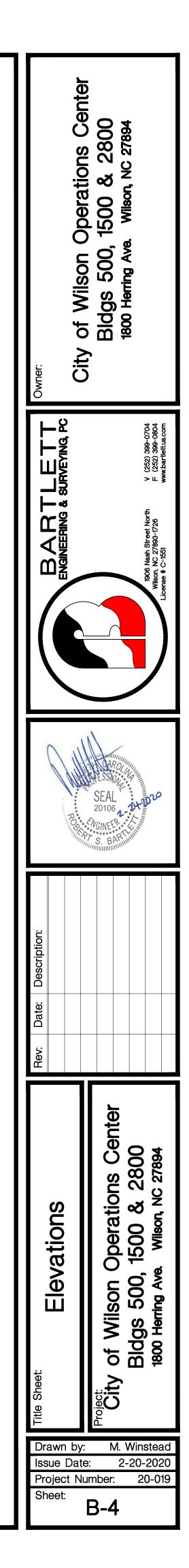


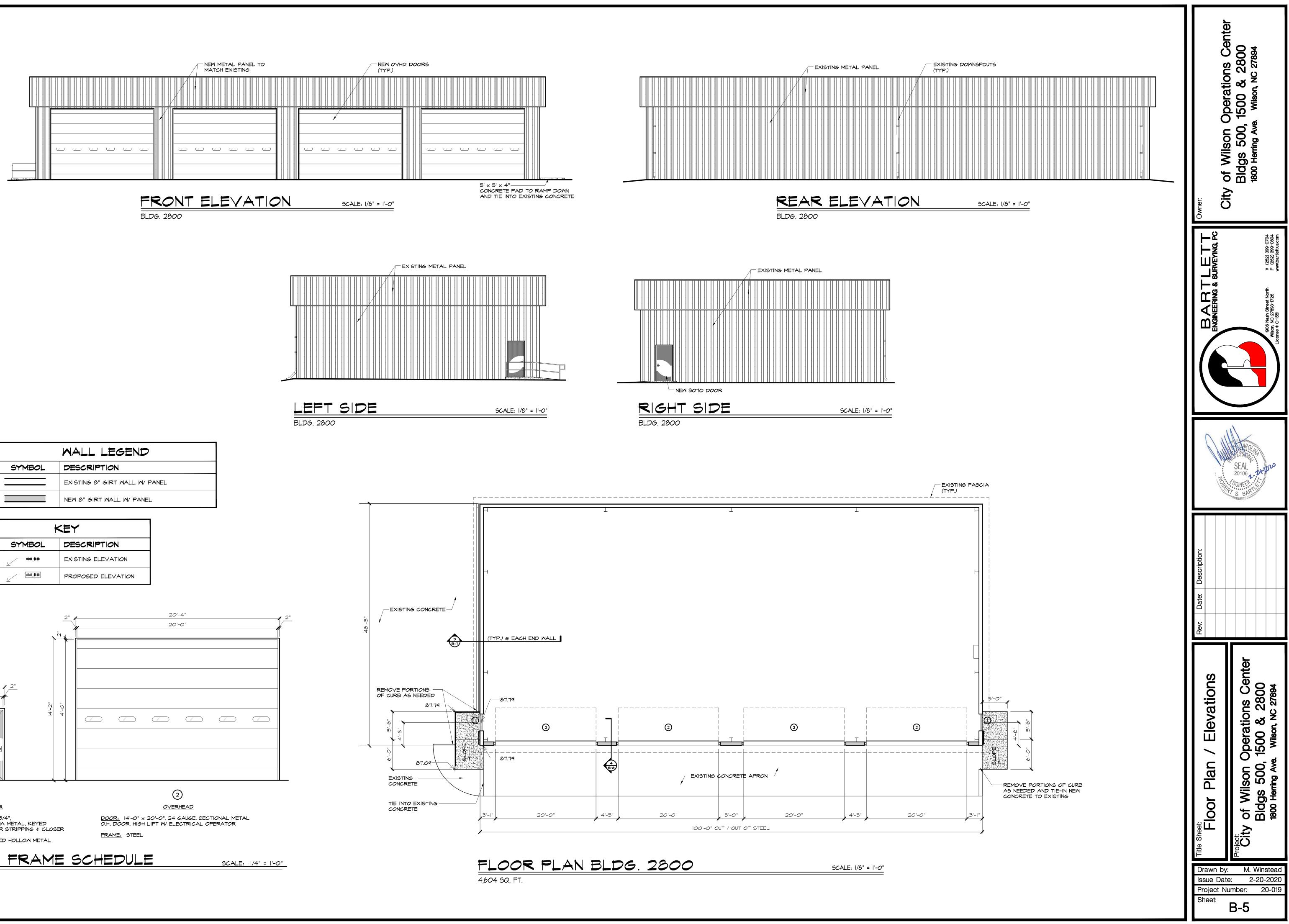


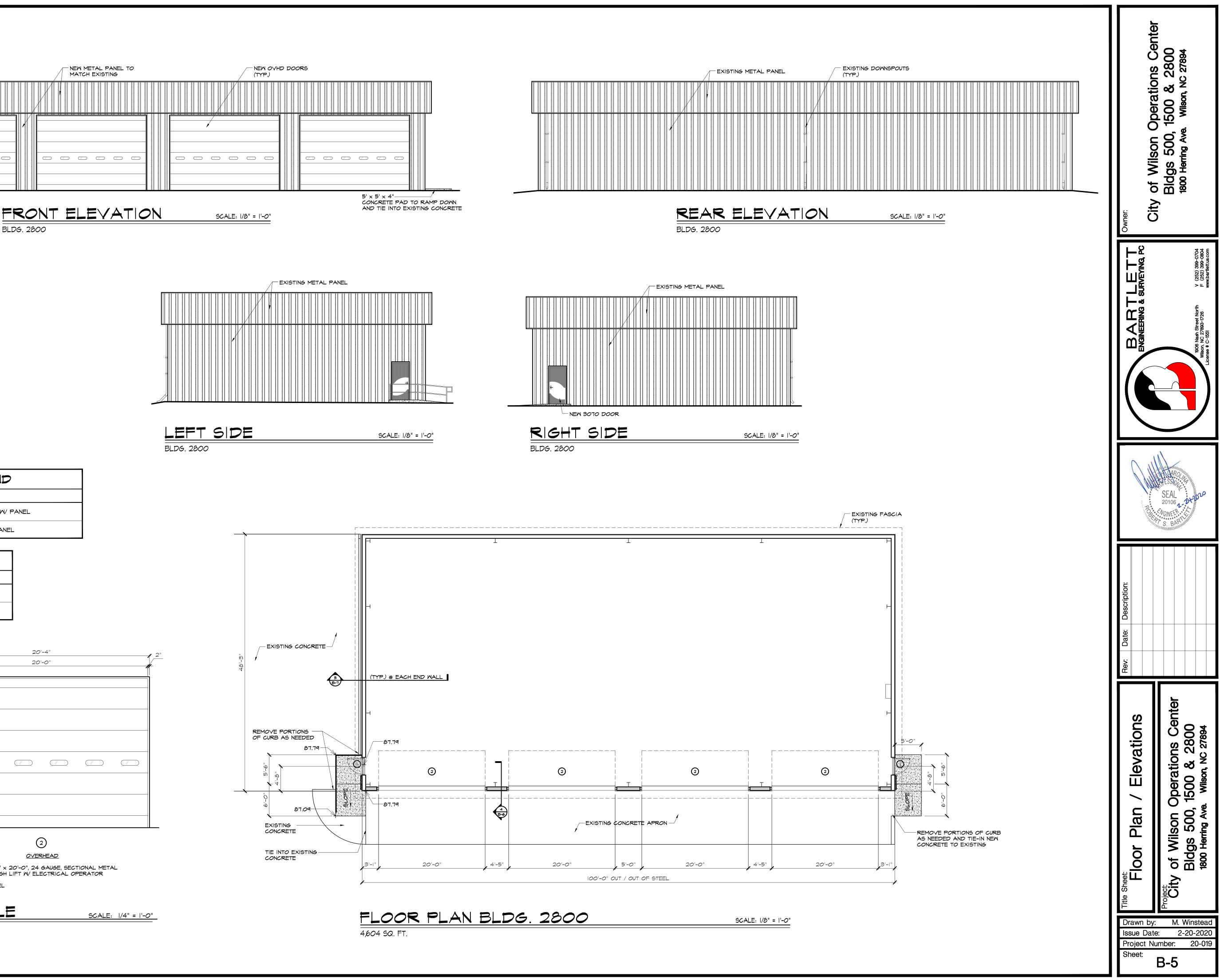


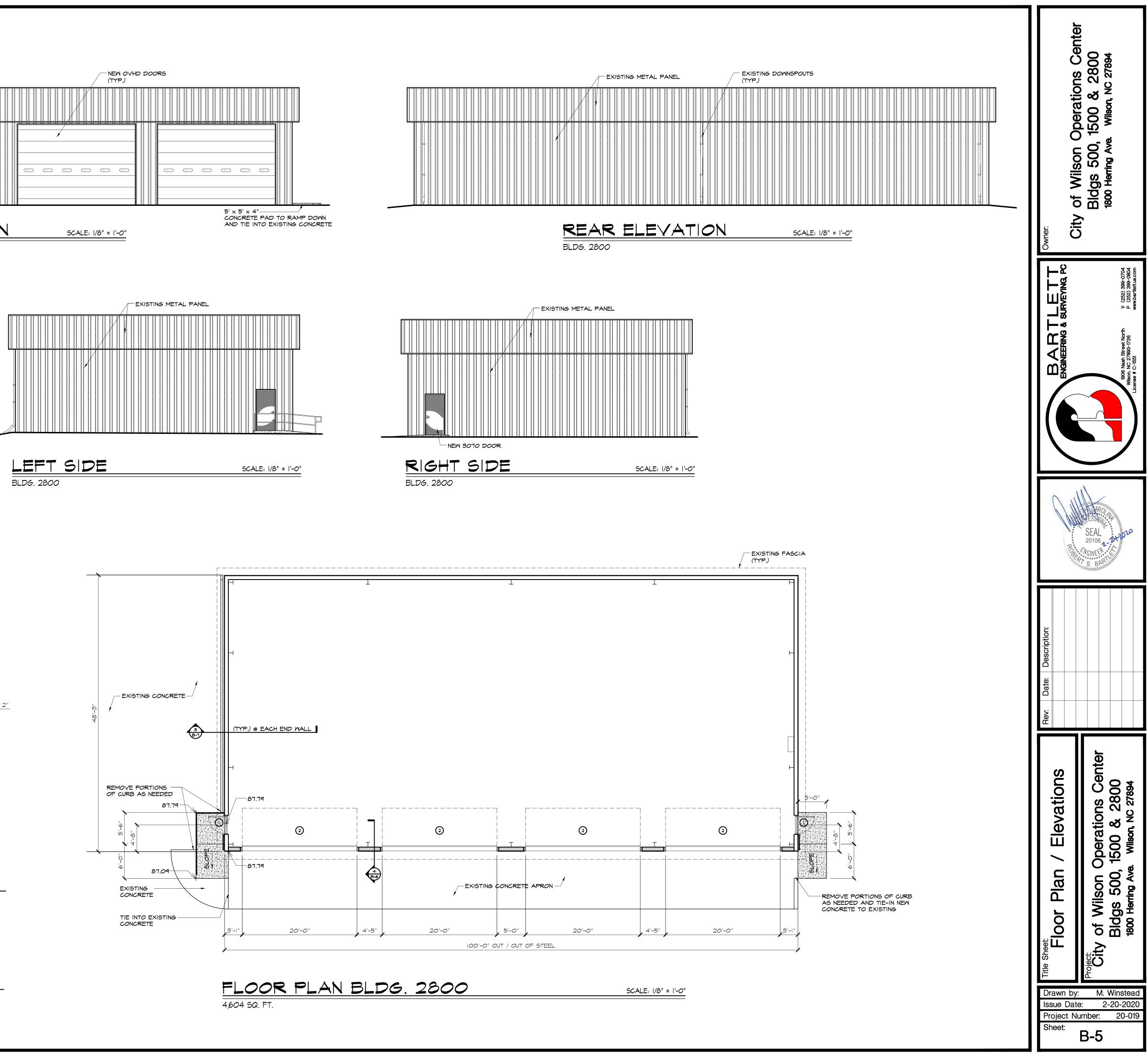


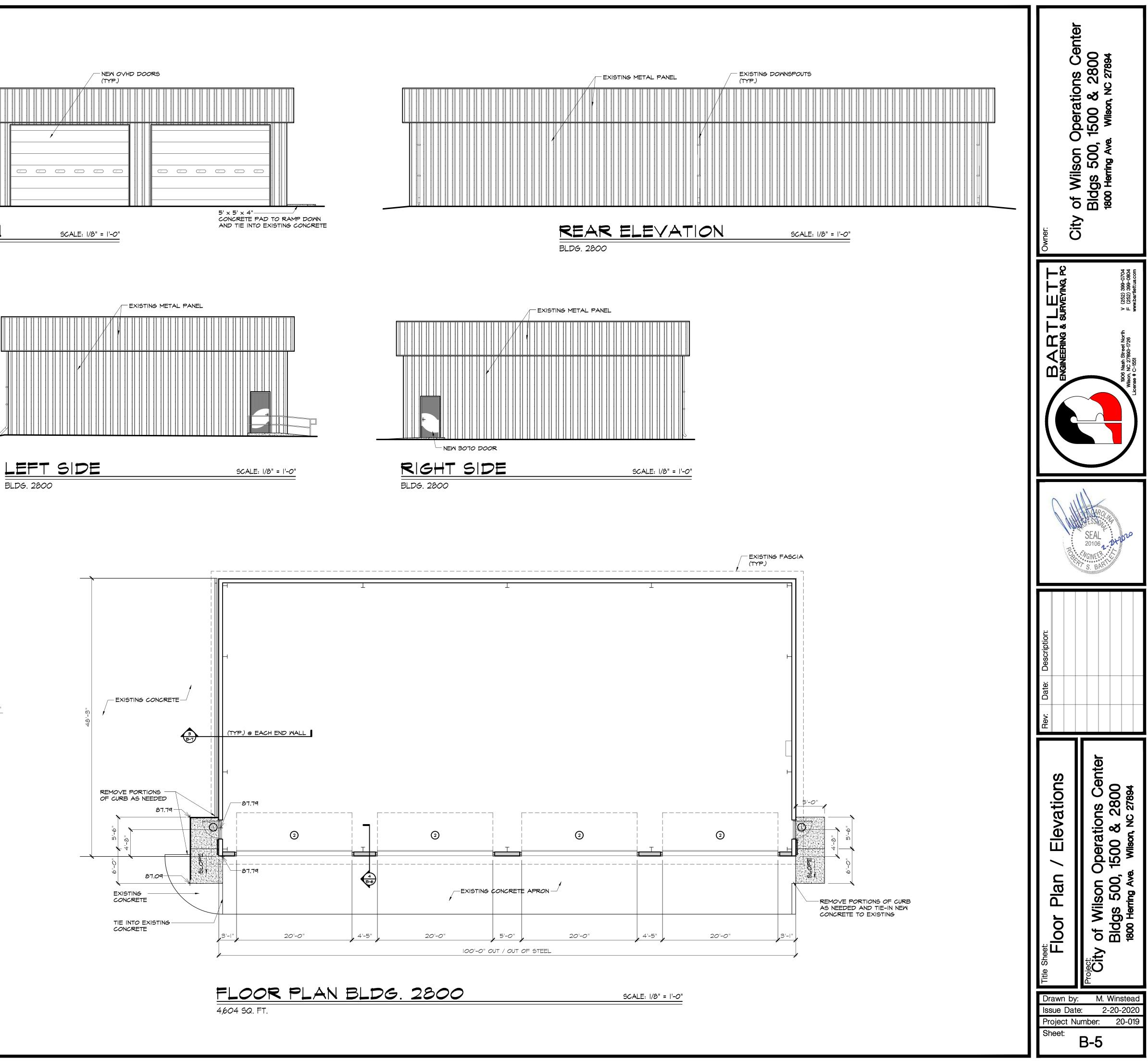






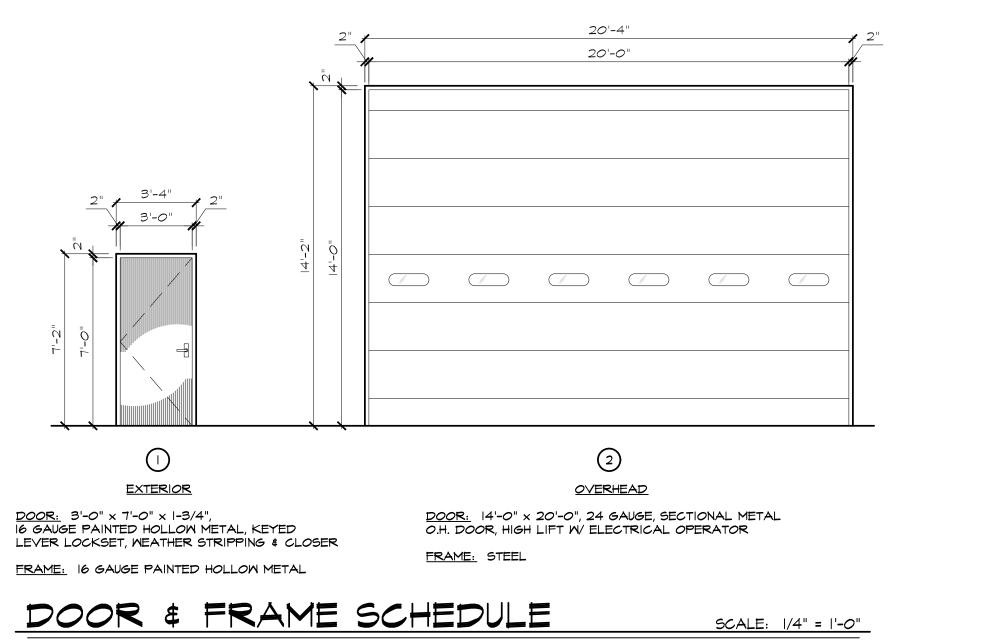


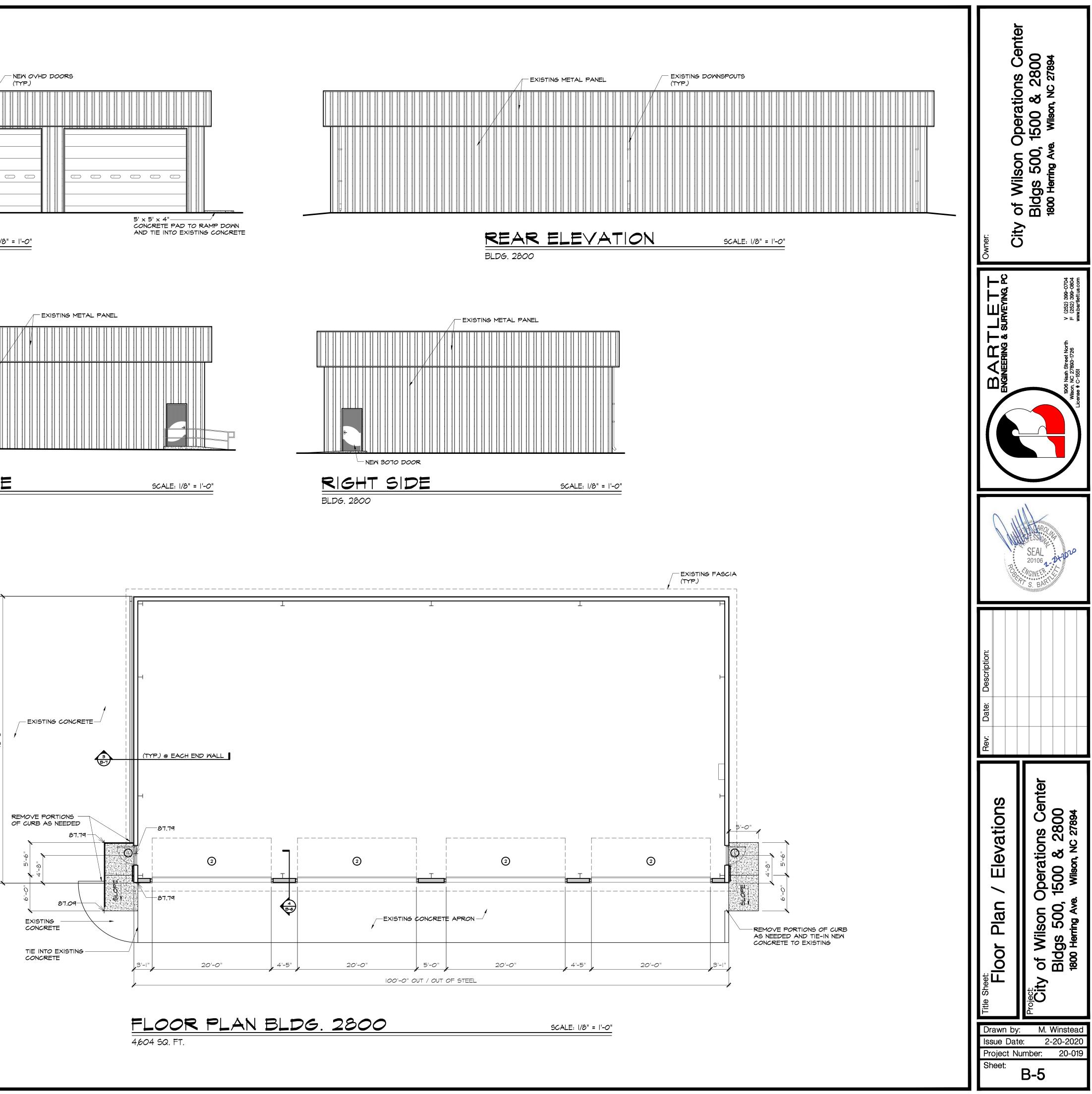


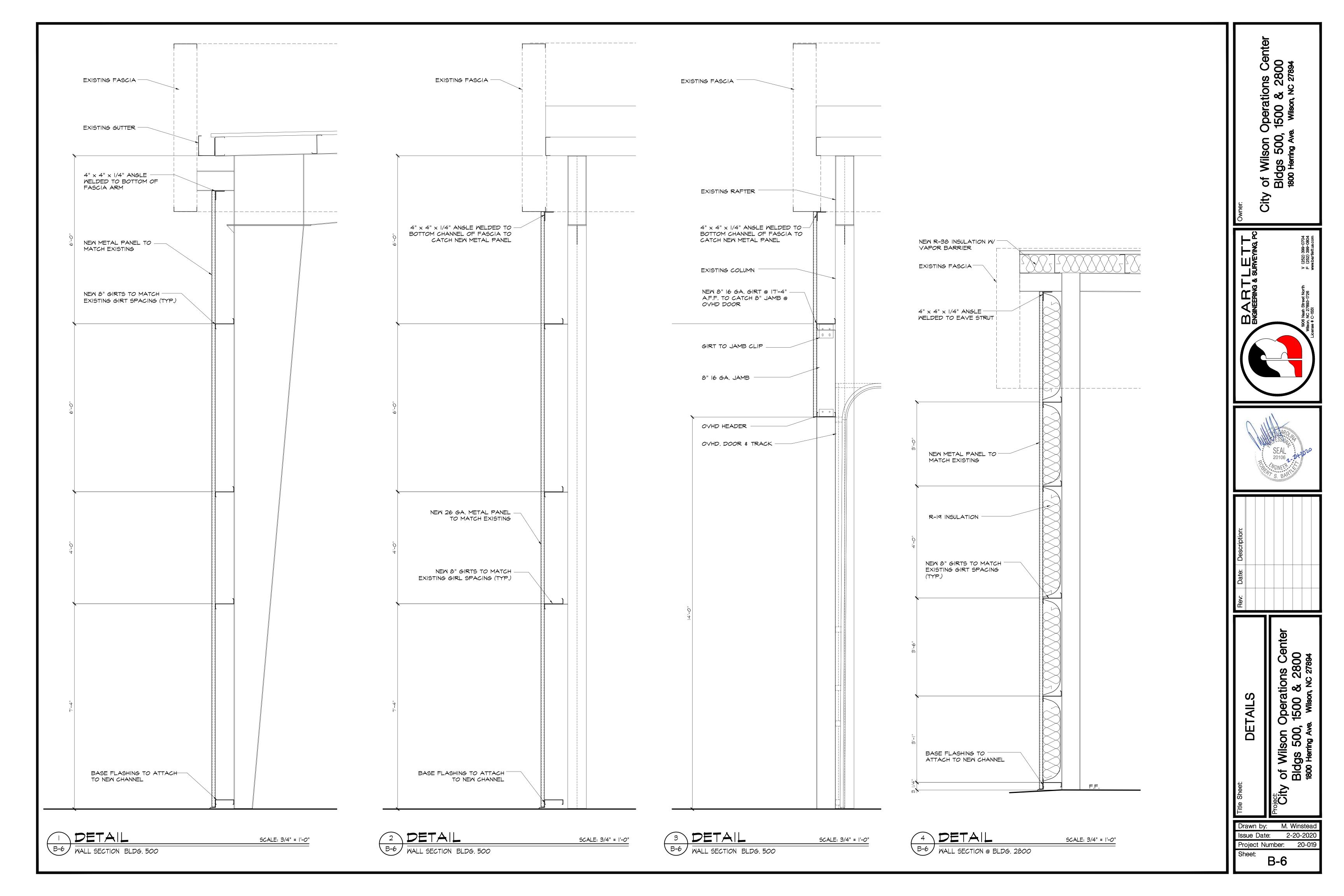


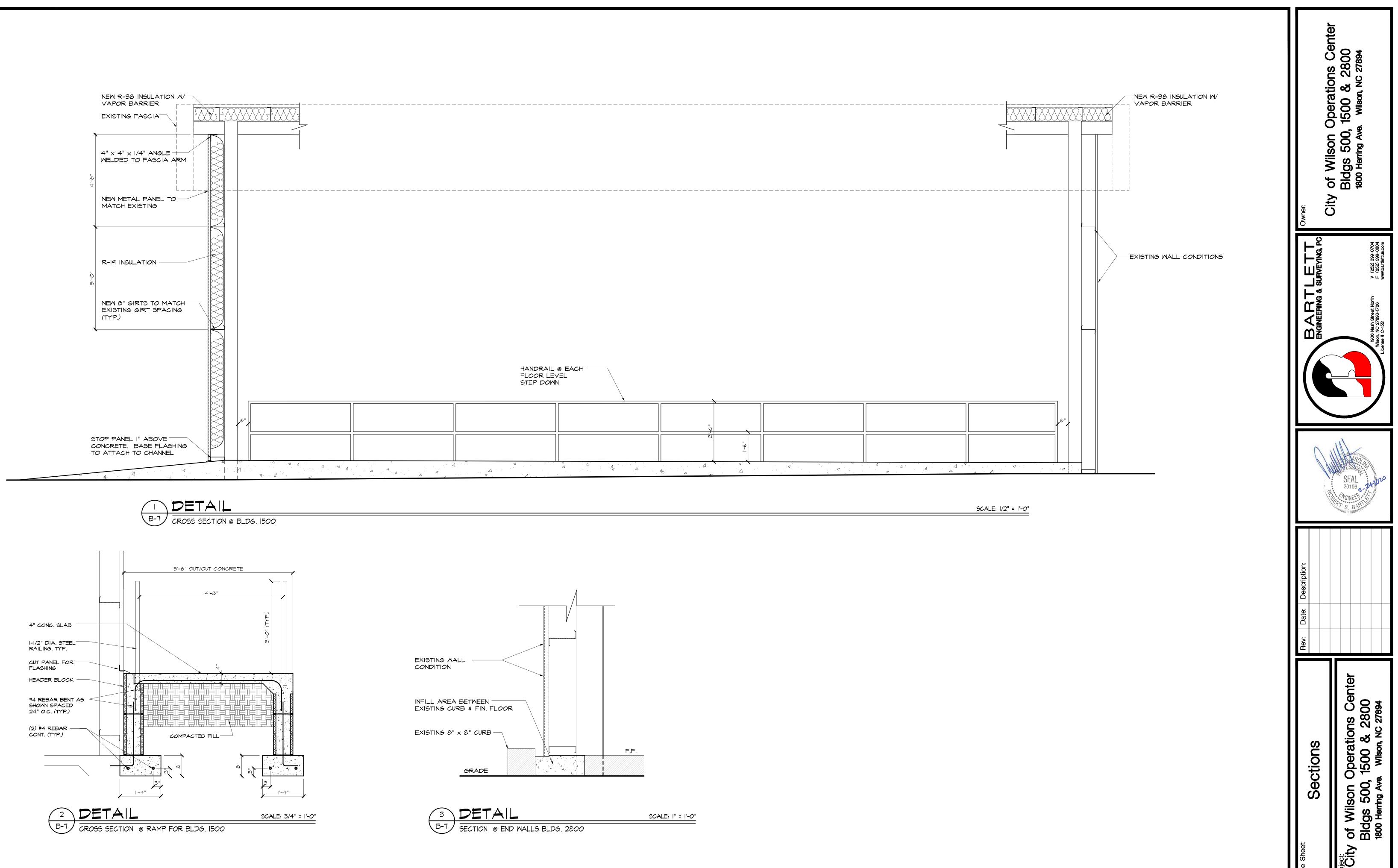
	WALL LEGEND
SYMBOL	DESCRIPTION
	EXISTING 8" GIRT WALL W/ PANEL
	NEW 8" GIRT WALL W/ PANEL

KEY				
SYMBOL	DESCRIPTION			
##.##	EXISTING ELEVATION			
##.##	PROPOSED ELEVATION			





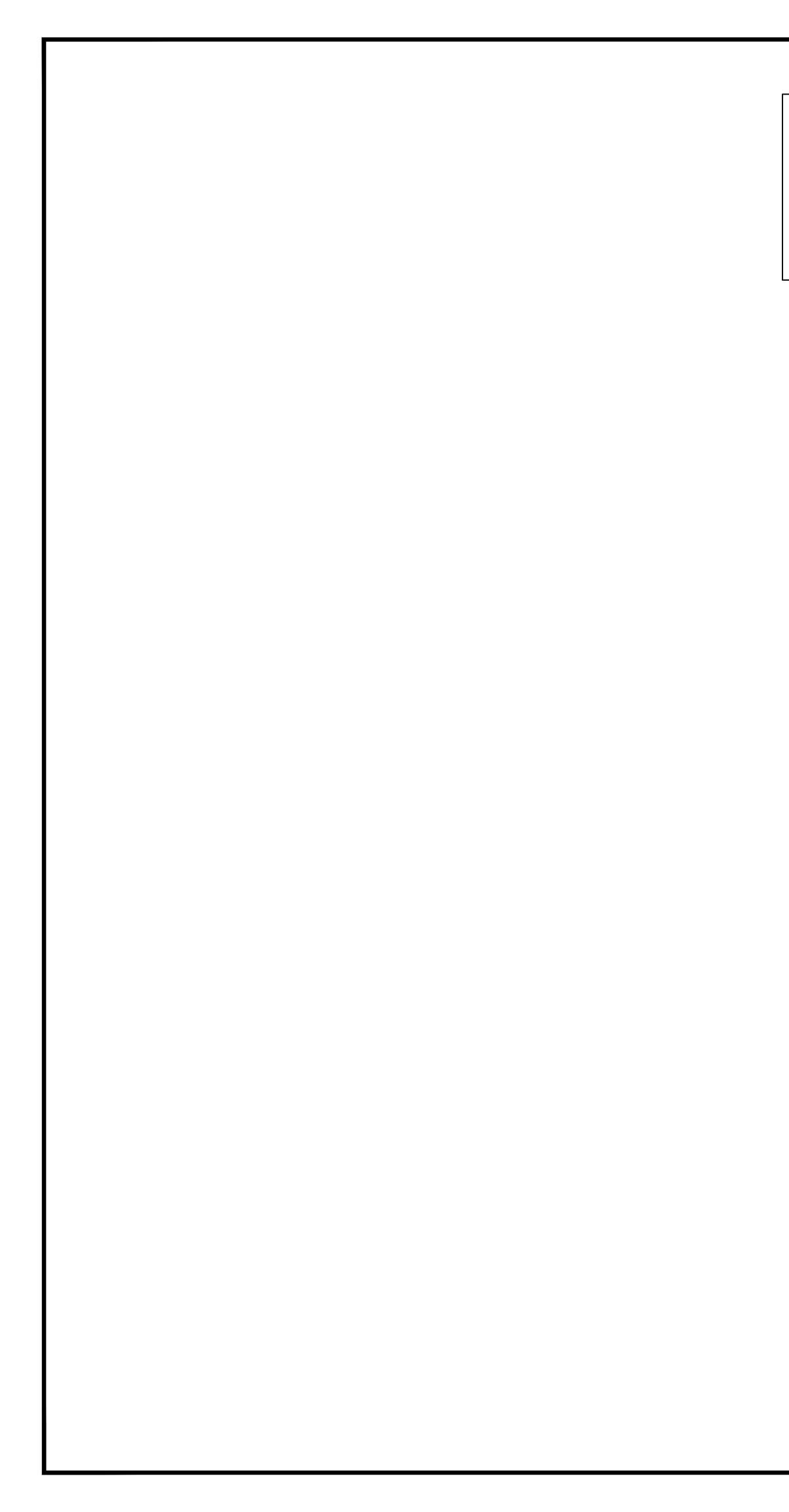




B-7

Sheet:

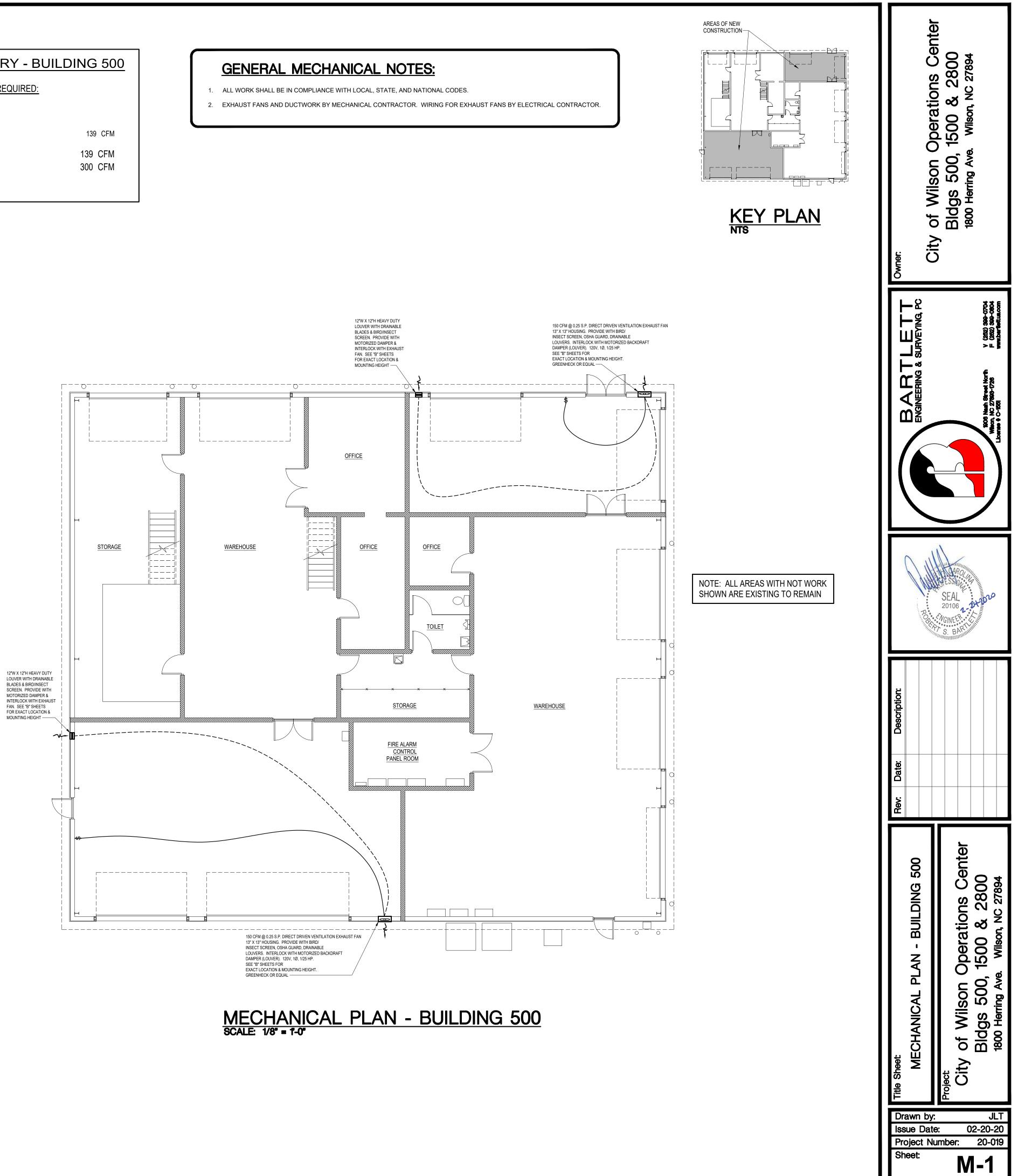
Drawn by: M. Winstead Issue Date: 2-20-2020 Project Number: 20-019



OUTSIDE AIR SUMMARY - BUILDING 500

OUTSIDE AIR REQUIRED:

WAREHOUSE	
2,310 SF X .06 CFM / SF	139 CFM
TOTAL OUTSIDE AIR REQUIRED= TOTAL OUTSIDE AIR PROVIDED=	139 CFM 300 CFM



OUTSIDE AIR SUMMARY - BUILDING 2800

OUTSIDE AIR REQUIRED:

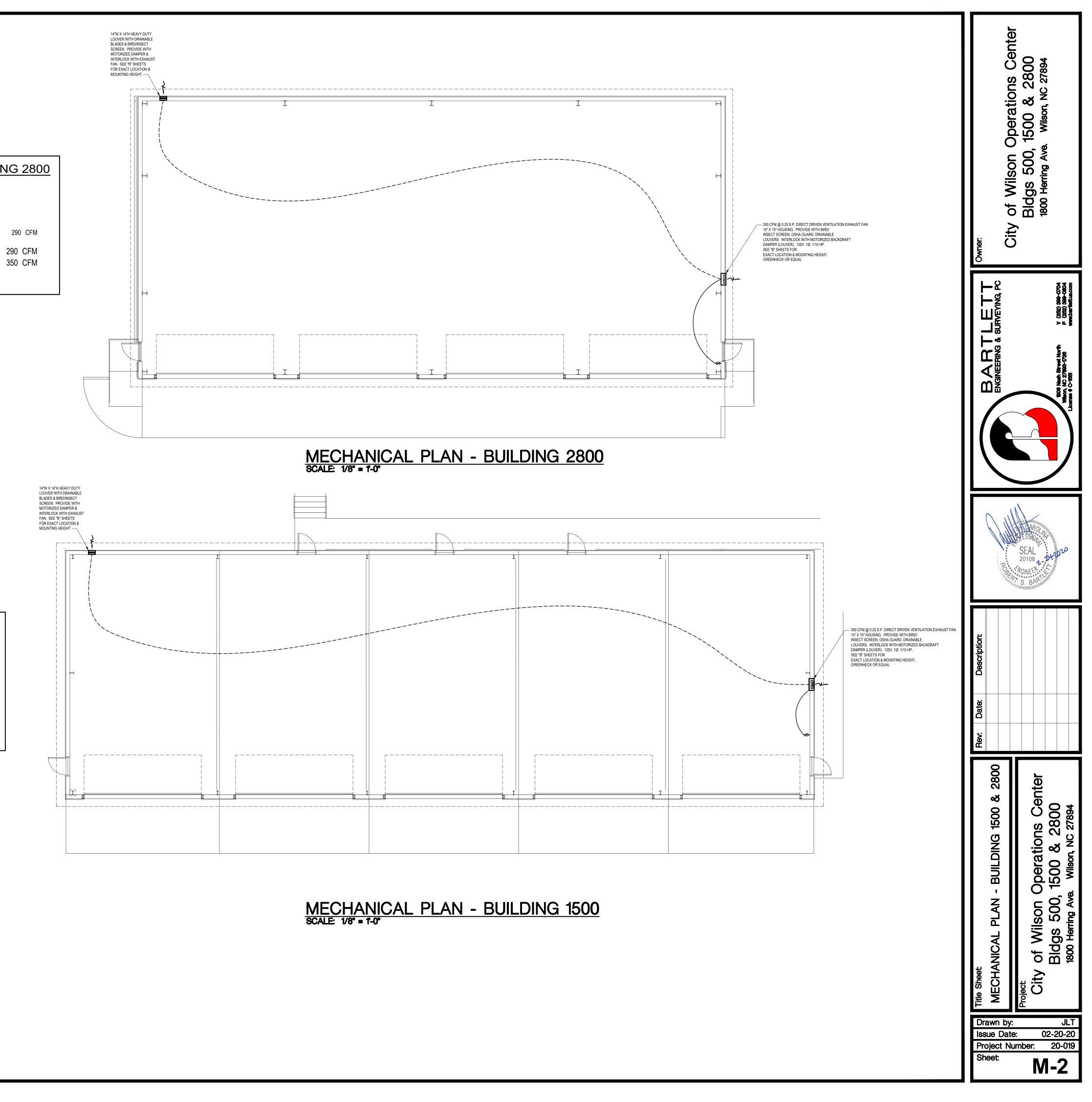
WAREHOUSE 4,820 SF X .06 CFM / SF

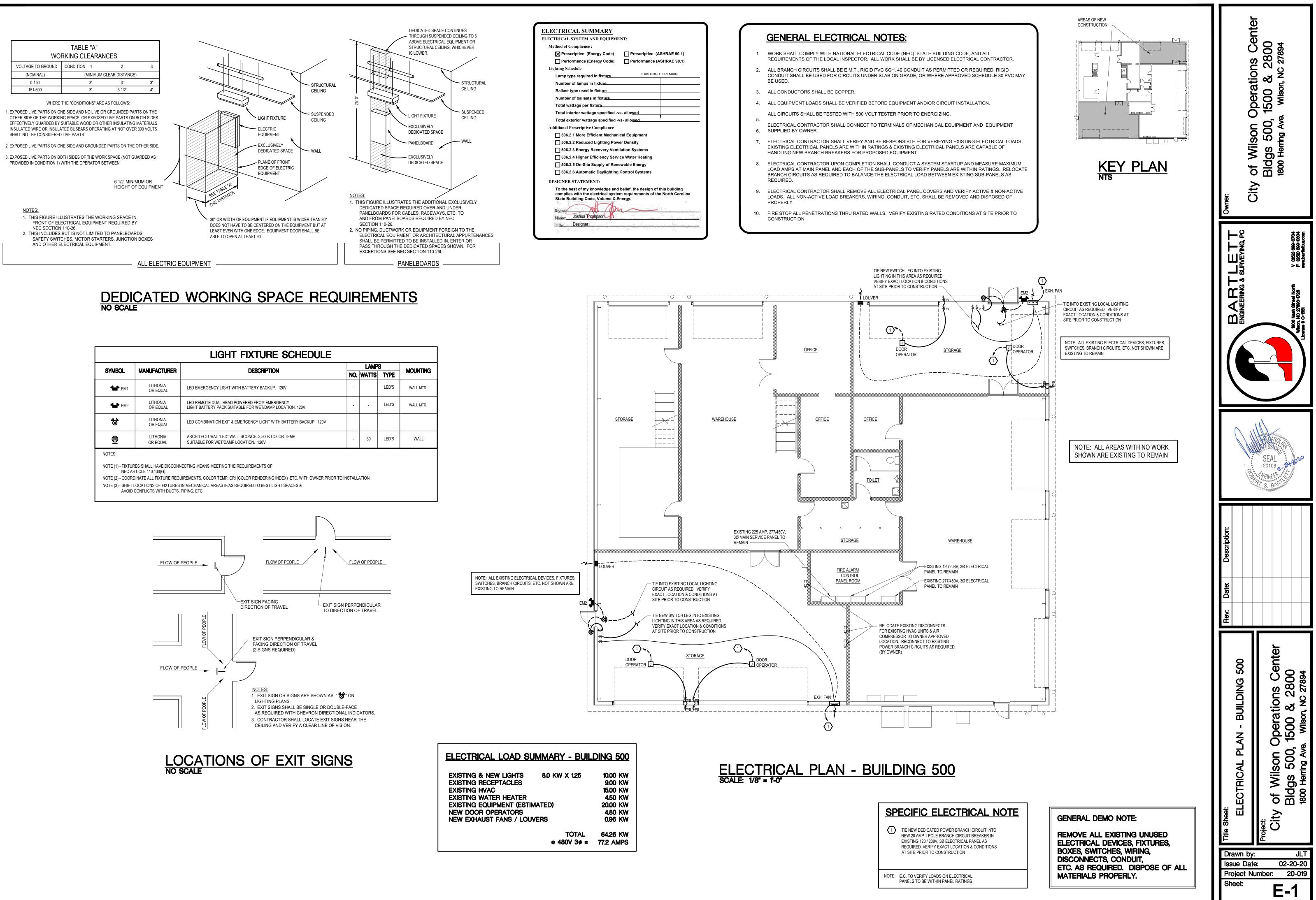
TOTAL OUTSIDE AIR REQUIRED= TOTAL OUTSIDE AIR PROVIDED=

OUTSIDE AIR SUMMARY - BUILDING 1500

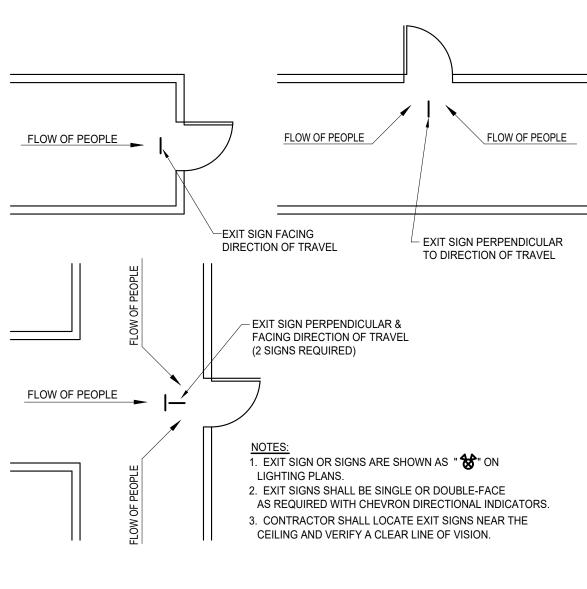
OUTSIDE AIR REQUIRED:

WAREHOUSE 5,430 SF X .06 CFM / SF 326 CFM TOTAL OUTSIDE AIR REQUIRED= 326 CFM TOTAL OUTSIDE AIR PROVIDED= 350 CFM





	LIGHT FIXTURE SCHEDULE												
SYMBOL		DESCRIPTION		S									
STMDUL	MANUFACTURER	DESCRIPTION	NO.	WATTS	TYPE								
EM1	LITHONIA OR EQUAL	LED EMERGENCY LIGHT WITH BATTERY BACKUP. 120V	-	-	LED'S								
EM2	LITHONIA OR EQUAL	LED REMOTE DUAL HEAD POWERED FROM EMERGENCY LIGHT BATTERY PACK SUITABLE FOR WET/DAMP LOCATION. 120V	-	-	LED'S								
*	LITHONIA OR EQUAL	LED COMBINATION EXIT & EMERGENCY LIGHT WITH BATTERY BACKUP. 120V											
P	LITHONIA OR EQUAL	ARCHITECTURAL "LED" WALL SCONCE. 3,500K COLOR TEMP. SUITABLE FOR WET/DAMP LOCATION. 120V	-	30	LED'S								
NOTES:													



ELECTRICAL LOAD SUMMARY - BUI	<u>LDING 500</u>
EXISTING & NEW LIGHTS 8.0 KW X 1.25	10.00 KW
EXISTING RECEPTACLES	9.00 KW
EXISTING HVAC	15.00 KW
EXISTING WATER HEATER	4.50 KW
EXISTING EQUIPMENT (ESTIMATED)	20.00 KW
NEW DOOR OPERATORS	4.80 KW
NEW EXHAUST FANS / LOUVERS	0.96 KW
TOTAL	64.26 KW
• 480V 3ø =	77.2 AMPS

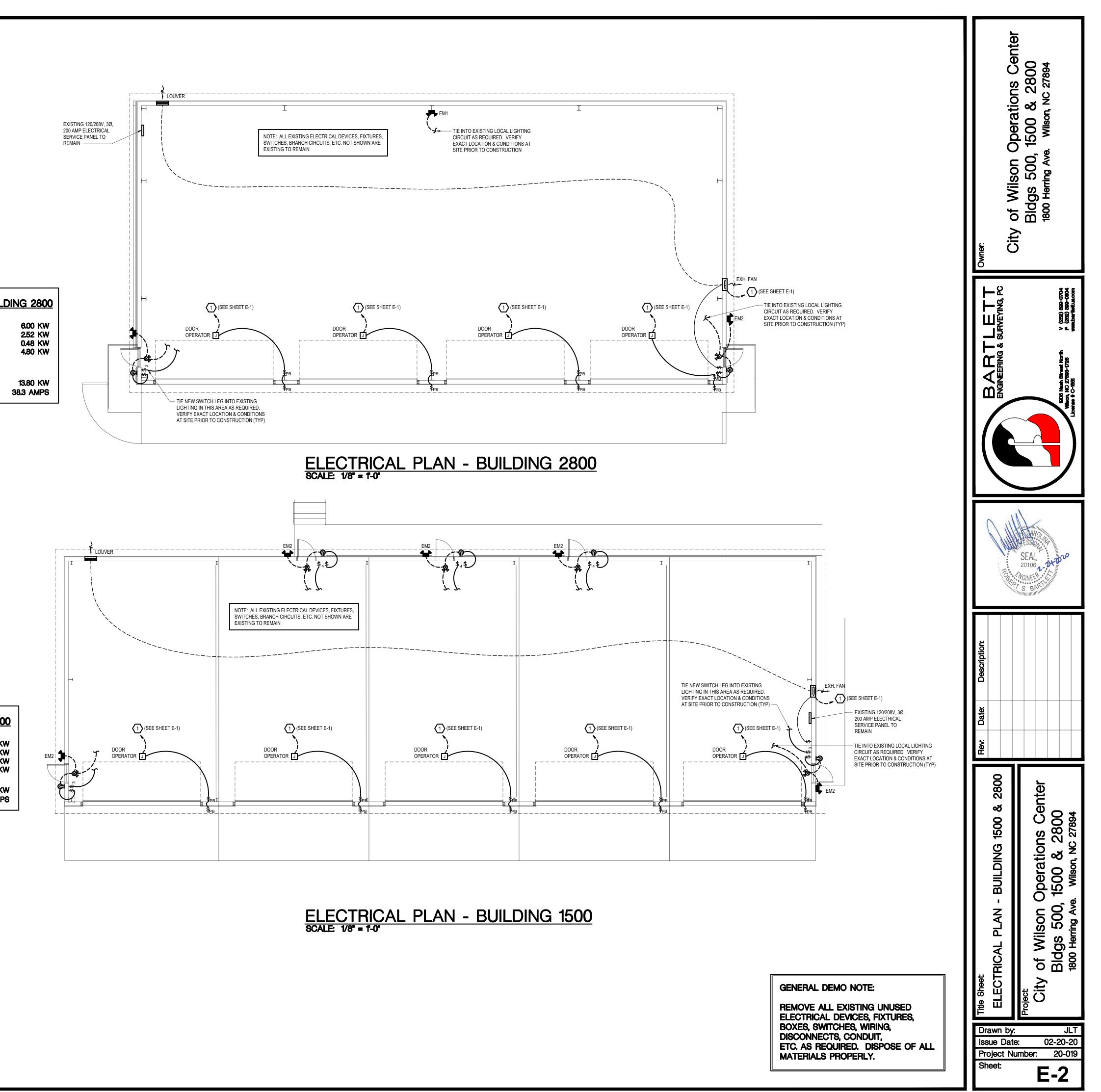
ELECTRICAL LEGEND												
MARK	DESCRIPTION	MARK	DESCRIPTION									
\$-0/0	LIGHT FIXTURE (WALL/CEIL.)	\$ _{PB}	PUSH-BUTTON FOR OVERHEAD DOOR. COORDINATE EXACT LOCATION & REQUIREMENTS WITH OWNER PRIOR TO INSTALLATION									
*	Combo exit/em. Light	J	JUNCTION BOX									
4	BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SWITCHED BRANCH CIRCUIT									
\$	SINGLE-POLE SWITCH	r ~	UNSWITCHED BRANCH CIRCUIT									
\$_3(4)	3-WAY SWITCH (4-WAY)	·	HOMERUN									

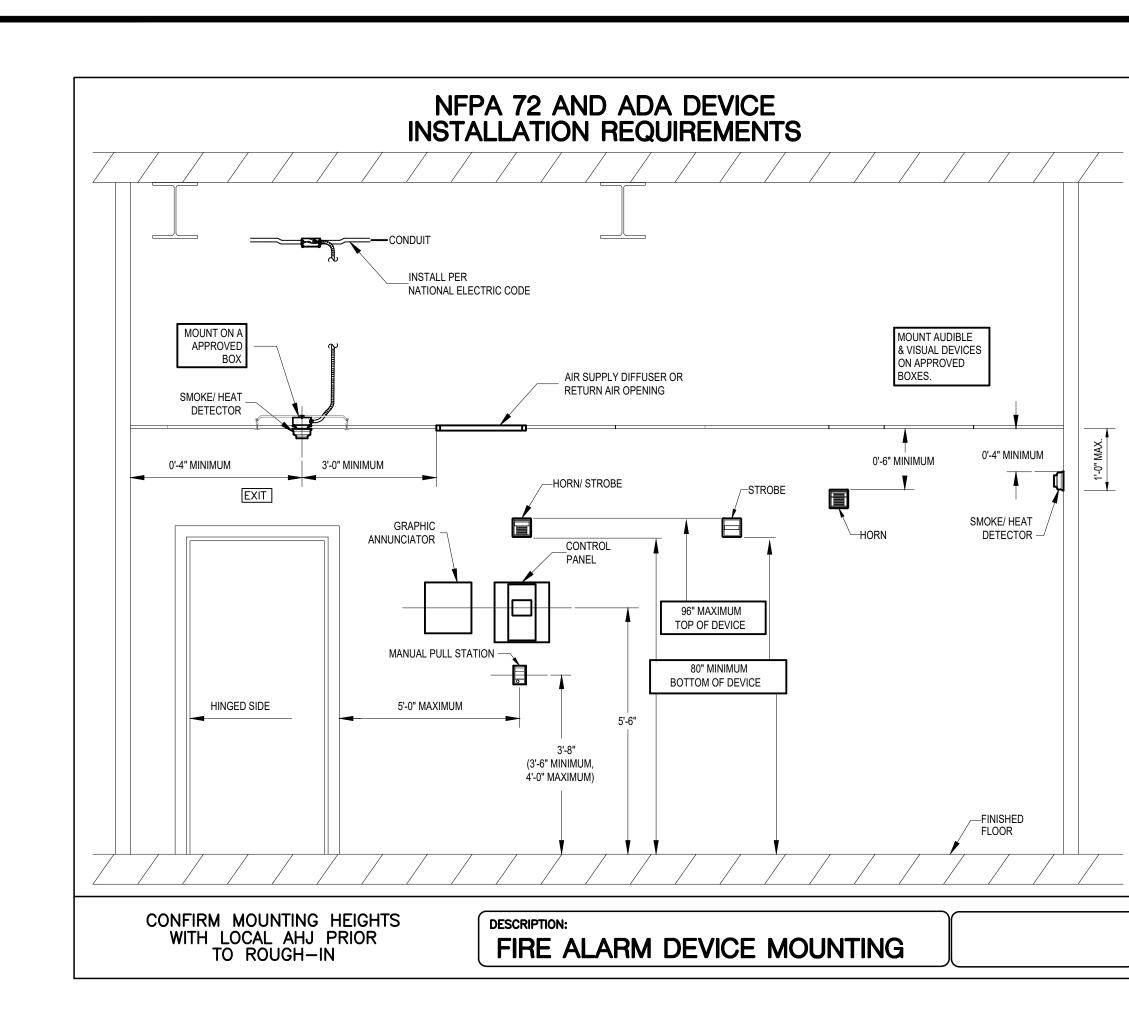
ELECTRICAL LOAD SUMMARY - BUILDING 2800

EXISTING & NEW LIGHTS 4.8 KW X 1.25 EXISTING RECEPTACLES NEW EXHAUST FAN / LOUVER NEW DOOR OPERATORS TOTAL o 208V 3ø =

ELECTRICAL LOAD SUMMARY - BUILDING 1500

NEW EXHAUST FAN / LOUVER NEW DOOR OPERATORS	6.00	K١
	0.48	
EXISTING RECEPTACLES	252	
EXISTING & NEW LIGHTS 5.4 KW X 1.25	6.75	K١





FIRE ALARM	1 0	PE	R/	٩Τ	10	NA	Ĺ	M	AT	RI	X							
	SYSTEMS OUTPUT																	
	со	NTR	OL U	NIT	ANN	JNCI	ATIC	N				I	NOT	IFICA		N		
SYSTEMS INPUT	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	DISPLAY INDIVIDUAL INPUT DEVICE BY TYPE, ADDRESS & DESCRIPTIVE LOCATION	SHUT DOWN AIR HANDLING EQUIPMENT	ACTUATE NOTIFICATION APPLIANCES	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SIGNAL TO SECURITY SYSTEM	TRANSMIT TROUBLE TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISORY STATION	TRANSMIT SPRINKLER VALVE CLOSED TO SUPERVISING STATION	TRANSMIT WATER FLOW TO SUPERVISING STATION		TRANSMIT FIRE ALARM AC POWER TO SUPERVISING STATION
MANUAL FIRE ALARM DEVICES		\triangleright					\boxtimes	\triangleright	\triangleright	\triangleright								
SMOKE DETECTORS		\mathbb{X}					\square	X	\mathbb{N}	X								
NOT USED																		
NOT USED																		
FACP AC FAILURE					\mid	\mid				\mid			\mid					
FACP LOW BATTERY					\mid	\mid							\mid					
OPEN CIRCUIT					\mid	\mid							\mid					
GROUND FAULT					\mid	\boxtimes							\mid					
NOTIFICATION APPLIANCE CIRCUIT SHORT																		

FIRE	FIRE ALARM LEGEND										
MARK	DESCRIPTION										
×	MANUAL FIRE ALARM BOX- PULL STATION										
XX MAX	FIRE ALARM HORN AND STROBE LIGHT XX - NOTES CANDELA RATING										
67	CEILING MTD. SMOKE DETECTOR										

- 80% CAPACITY.

