FIRE STATION #4

109 Forest Hills Rd NW Wilson, NC 27893

					2018	APPENI	DIX	в вс	JILDIN	IG	COI)E
Name of Project: Improve	ements for Fire Station #4					1		ALLOWAB	LE HEIGHT			
Address: 109 Forest Hills	Rd NW, Wilson, NC				Zip Code:27893	Building Height in Feet ((Table 504.3) ²	ALLOWABLE 60'	SHOWN ON <23'		CODE REFE X	RENCE
Owner or Authorized Agent			e#	E-Mail:_		Building Height in Storie	`		1		X	
Owned By:	City / County	Private						n on Plans" quantity is not based o				
Code Enforcement Jurisdicti	ion: City Wilson	County			State North Carolina			control towers must comply with I ng garages must comply with Tab				
CONTACT:	Ro	obert S. Bartlett P.E.					, are or open paras	ng garages mast compty with rac				
DESIGNER FIRM	NA	AME L	ICENSE# TELEPHON	NE# E-M	IAIL			EIDE DECICTA	NCE DATINGS	EVICTING	O DEMAIN	
			0106 <u>252.399.07</u>		pert@bartletteng.com			FIRE RATIN		EXISTING TO		SHEET #
			0106 252.399.07 0106 252.399.07		pert@bartletteng.com pert@bartletteng.com	BUILDING EL	LEMENT	SEPARATION DISTANCE REQUIRED (PROVIDED W/ 0 * AND SHEET #	FOR RATE	# SHEET # ED FOR RATED LY PENETRATION	FOR RATED
	<u> </u>		0106 252.399.07		pert@bartletteng.com	Structural frame, includin	ng columns		REDUCTION)	ASSEMBL	T TENETRATIO	' JOINTS
			0106 <u>252.399.07</u> 0106 <u>252.399.07</u>		oert@bartletteng.com oert@bartletteng.com	girders, trusses Bearing walls	ing corumns,	N/A 0 HOUR				
Sprinkler-Standpipe						Exterior North		0 HOUR				
Struct Metal Bldg Struct Framing						East		0 HOUR 0 HOUR				
	ngineering & Surveying, PC Ro	obert S. Bartlett 2	0106 252.399.07	<u>rob</u>	pert@bartletteng.com	West South		0 HOUR				
Other						Interior Nonbearing walls and par	artitions					
2018 NC BUILDING COD	DE: New Building Addition					Exterior North		0 HOUR				
	1st Time Interior Completion Shell/Core completion only -		n jurisdiction for possible addit	tional procedure	es and requirements.)	East West						
	Phased Construction - (Cont	· ·		_		South Interior walls and part	titions	0 HOUR				
2018 NC EXISTING BUIL	LDING CODE: ace: Repairs Alterations	Additions Change of oc	cupancy Historic S	shell/Core comp	aletion only	Floor Construction including supporting bea	ams and joists					
Work Area Complian	nce : Alteration Level I Altera	ation Level II	Level III Additions	_		Floor Ceiling assembly Columns Supporting Floor	· ·	0 HOUR				
Performance Complian	nce: Repairs Alterations	Additions Change of oc	cupancy Historic			Roof Construction including supporting bea						+
CONSTRUCTED: (date)	CURRENT					Roof Ceiling assembly						
RENOVATED: (date)	PROPOSEI	D USE(s) (Ch. 3)S-1, F	R-3, B			Columns Supporting Roo Shafts Enclosures - Exit						
KISK CATEGORY: (Tab	ole 1604.5) Current: I II Proposed: I III					Shafts Enclosures - Other Corridor Separation	-					
						Occupancy/Fire Barrier S Party/Fire Wall Separation						+
BASIC BUILDING	G DATA					Smoke Barrier Separation Smoke Partition						
Construction Type :			☐ IV ☐ V-			Tenant/Dwelling Unit/Sle Incidental Use Separation	1 0 1	aration 0 HOUR				+
(check all that apply) Sprinklers: NO	-	☐ III-B NFPA 13 ☐ NFPA 1	⊠ V-1 13r □ Napa 13d	В		*Indicates section number						
Standpipes : NO	YES Class: I II	I III Wet	_				nen c				2 = 2//2=2//2=2/	
Fire District : NO	YES Floored: ⊠ NO ☐ YES (Contact the	od Hazard Area: No		duras and raquir	raments)	FIRE SEPARATION D		ENTAGE OF WALL O	ALLOWABLE A		EXISTING TO ACTUAL SHOWN	
Special inspections Kequif	eu: NO 1123 (Contact ti	ne local hispection jurisdiction	ii for possible additional proced	dures and requir	ements.)	(FEET) FROM PROPER		PROTECTION (TABLE 705.8)	(%)	KLA	(%)	ONTLANS
TI COD	1	GROSS BUILDING	1	CVP FOTAY		N/A		N/A	N/A		N/A	
FLOOR 6th Floor	EXISTING (SQ. FT.)	NEW (SQ. FT	.)	SUB-TOTAL								
5th Floor												
4th Floor 3th Floor						=						
2nd Floor								LIFE SAFETY SYSTI	EM REQUIREME	NTS EXI	STING TO REMAIN	1
Mezzanine 1stFloor	6.227 SF	0 SF		6.227 SF		Emergency Lighting: Exit Signs:		No				
						Fire Alarm:		No ☐ Yes				
TOTAL:	6,227 SF	0 SF		6,227 SF		Smoke Detection Systems: Carbon Monoxide Detection		No ☐ Yes ☐No ☐ Yes	Partial, HVAC UNITS ≥5.	0 TONS		
		ALLOWABI	LE .			Earbon Monoxide Detection	on.	No les				
Primary Occupancy Class : Assembly (303)	ification(s) (check all that apply) A-1 A-2 A-3	AREA						LIFE SAFETY PLA	N REOUIREMEN	TS		
Business (304)	☐ A-1 ☐ A-2 ☐ A-3					Life Safety Plan Sheet #:	LS-1			_		
Educational (305)								ocations (Chapter 7) e locations (if not on the site plan)				
Factory (306) Hazardous (307)	 □ F-1 Moderate □ F-2 L □ H-1 Detonate □ H-2 I 	.ow Deflagrate 🔲 H-3 Combu	st H-4 Health	☐ H-5 HPM				th respect to distance to assumed p				
Institutional (308)	☐ I-1 ☐ I-2 ☐ I-3	☐ I-4						of the proposed building as it relates to occupant load calcu	dation (Table 1004 1.2)			
I-3 C Mercantile (309)	Condition 1 2	3 4 ::	5			Occupanty Os Occupant loads		as it relates to occupant load calcu	nation (Table 1004.1.2)			
Residential (310)	☐ R-1 ☐ R-2 ☐ R-3					Exit access tra	,		,,,			
Storage (311)	S-1 Moderate Parking Garage Open	_	High-Piled Repair Garage			Dead end lengt		res (Tables 1006.2.1 & 1006.3.2(1	.))			
Utility and Misc. (31	_		repair Garage			Clear exit widt				111 (100	5 a)	
	ssification(s):					Maximum calc	•	t load capacity each exit door can exit door	accommodate based on egr	ess width (1005	5.3)	
Incidental Uses: (Table 509 Special Uses: (Chapter 4 -	List Code Sections)							icating where fire rated floor/ceil	ing and/or roof structure is	provided for pu	rposes of occupancy	separation
	ter 5 - List Code Sections) YES Separation: Existing						*	ardware (1010.1.10) d egress locks and the amount of c	delay (1010.1.9.7)			
Mixed Occupancy: NO Non-Separated N	The requir	red type of construction for th	e building shall be determined					magnetic egress locks (1010.1.9.9))			
	occupanci	ies to the entire building. The lon, so determined, shall apply	e most restrictive type of			Location of do		th hold-open devices windows (1030)				
Senarated Use (5	508.4) - See below for area calculation					The square foo	otage of each fire	e area (202)				
ZN Sopmatou Ose (shall be such that the sum of use divided by the allowable	the ratios of the actual floor ar	rea of each			_ ·	_	toke compartment for Occupancy able notes that may have been util	` '	ove		
	•	+Existing to 1		Note to Plan	n Reviewer: Structural Elements & Exterior	=======================================	1	·				
	Existing to Remain	Existing to I	Remain	Walls to rem demo location	nain. Existing Interior Walls at ons shown to be replaced/repaired	1		ACCESSIBLE DY (SECTIO				
				to match exi		TOTAL UNITS ACCES		SSIBLE TYPE A TY	YPE A TYPE B UNITS UNITS	TYPE B UNITS	TOT. ACCESSIB	
						REQU	JIRED PROV	VIDED REQUIRED PRO	OVIDED REQUIRED	PROVIDED	O PROVI	IDED
		(A)		(C)	(D)	N/A N//	A N	/A N/A 1	N/A N/A	N/A	N/,	<u>+</u>
	CRIPTION ND USE	BLDG AREA PER STORY (ACTUAL)	TABLÉ 506.2 ⁴ AREA FO	R FRONTAGE REASE ^{,5}	ALLOWABLÉ AREA PER STORY OR UNLIMITED ^{2,3}				LE PARKING			
	CUPANCY	1,982 SF		N/A		LOT OR PARKING		(SECTION L# PARKING SPACES	ON 1106) # ACCESSIBLE SP.	ACES PROVII	DED TO	OTAL#
	CUPANCY CUPANCY	1,075 SF 2,732 SF		N/A N/A		AREA DESIGNATION		DED DROVIDED REC	GULAR WITH 132" ACC	CESS 8' AC	CCESS ACC	CESSIBLE S PROVIDED
							N/A	N/A	N/A N/A	N/A	A	N/A
1.F.						TOTAL	N/A N/A		N/A N/A N/A N/A	N/A		N/A N/A
a. Perimeter which	increases from Section 506.3 are computed fronts a public way or open space ha		=(F)					PLUMBING FIXTUR	SE BEOIHDEMEN	JTS EV	ISTING TO REMAIN	
c. Ratio (F/P) =_	Perimeter = (P) (F/P) width of public way = (W	V)						(TABLE	-	<u>. 10</u> EVI	O NEWAII	
	width of public way =(Wage increase $I = 100 [F/P - 0.25] x$					USE	WATER C	LOSETS	LAVATORIES MALE FEMALE UNI	SERVIC		
	cable under conditions of Sections (507 Area = total number of stories in the bu		es) (506.2).			TOTAL EXISTING	1 1	1 1	2 1 1	1	1	0
_	of open parking garages must comply w	` `				32 NEW	0 0	0 0	0 0 0	0	0	0

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SITE CIVIL

Frontage increase is based on the unsprinklered area value in Table 506.2.

BUILDING & LEAD DESIGN PROFESSIONAL

PPENDIX	В	Вι	JIL	OIN	G	COL	DE	SUMMARY
		ALLOWAI	BLE HEIG	НТ				SPECIAL APPI
	AI	LLOWABLE	5	SHOWN ON P	LANS	CODE REFEI	RENCE 1	Special approval: (Local Jurisdiction, Department of Insu
Building Height in Feet (Table 504.3) Building Height in Stories (Table 504.4)	3	2		<23'		X		
	·		T.11. 504.0	1		Х		
Provide code reference if the Show The maximum height of air traffic	-	-						
The maximum height of open par								
	8 88							ENERGY SUN
								ENERGY REQUIREMENTS:
	FIR	E RESISTA	ANCE RA	TINGS	EXISTING TO	REMAIN		The following data shall be considered minimum a
	FIRE	RATI	NG PROVIDED	DETAIL#	DESIGN #	SHEET#	SHEET #	the energy code shall also be provided. Each Design the project information for the plan data sheet. If
BUILDING ELEMENT	SEPARATION DISTANCE	REQUIRED	(W/*	AND SHEET #	FOR RATE		FOR RATED	energy cost for the standard reference design vs at design.
0, , 10, , 11, 1	(FEET)		REDUCTION)) 511221 //	11002.1102	T ENERGINE	JOINTS	Existing building envelope complies with code:
Structural frame, including columns, girders, trusses	N/A	0 HOUR						Exempt Building: NO YES (Provide cod
Bearing walls								Climate Zone: X 3A 4A 5A
Exterior North		0 HOUR						Method of Compliance: Energy Code
East		0 HOUR 0 HOUR						ASHRAE 90.1
West South		0 HOUR						THERMAL ENVELOPE : (Prescriptive method
Interior								Roof/Ceiling Assembly (each assembly)
Nonbearing walls and partitions Exterior		0 HOUR						
North		OTIOOK						
East West	_				_			
South								Description of AssemblyExisting to
Interior walls and partitions		0 HOUR						U-value of Total Assembly
Floor Construction including supporting beams and joists								
Floor Ceiling assembly		0 HOUR						R-value of Insulation Existing to
Columns Supporting Floor Roof Construction								Skylights in each assembly
including supporting beams and joists								U-Value of skylight
Roof Ceiling assembly Columns Supporting Roof								Total square footage of skylights in ea
Shafts Enclosures - Exit								Exterior Walls (each assembly)
Shafts Enclosures - Other								
Corridor Separation Occupancy/Fire Barrier Separation								
Party/Fire Wall Separation								Description of Assembly Existing to
Smoke Barrier Separation Smoke Partition								U-value of Total Assembly
Tenant/Dwelling Unit/Sleeping Unit Se	eparation	2110115						Existing to
Incidental Use Separation Indicates section number permitting red	luction	0 HOUR						R-value of Insulation
marcates section number permitting red	iuction.							Openings (windows or doors with glazing) U-Value of assembly
PFR	CENTAGE (DE WALL	OPENING	CALCIII	ATIONS	EXISTING TO	REMAIN	Solar heat gain coefficient:
FIRE SEPARATION DISTANCE	DEGREE OF			OWABLE AR		ACTUAL SHOWN		Projection factor:
(FEET) FROM PROPERTY LINES	PROTECTION (ALL	(%)	LA	(%)	ONFLANS	Door R-Values:
N/A	N/A	.		N/A		N/A		Walls below grade: (each assembly)
IWA	11//	1		IN/A		IN/A		
								Description of Assembly Existing to
								U-value of Total Assembly
	LIEECAE	ETY CVCT	EM DEOI	HDEMEN	TTC EVE	STING TO REMAIN		R-value of Insulation
T 1 1 . 1	LIFE SAF		EM KEQ	UIRENIEN		STING TO REMAIN		Floors over unconditioned space: (each asser
Emergency Lighting: Exit Signs:		⊠ Yes ⊠ Yes						
Fire Alarm:		Yes						
moke Detection Systems:			Partial, HVA	C UNITS ≥5.0	TONS			
Carbon Monoxide Detection:	⊠ No [Yes						Description of Assembly
								U-value of Total Assembly
	LIFE SA	FETY PLA	N REOU	REMENT	25			Floors slab on grada
Life Safety Plan Sheet #: LS-1	LIFE SA	<u>FETTTE</u>	III KEQUI	(ICEIVIEIVI				Description of Assembly 8" Reinforced
Fire and/or smoke rated wall	— Llocations (Chante	r 7)						U-value of Total Assembly
Assumed and real property l	` •	,	1)					R-value of Insulation
Exterior wall opening area w	`	•		(705.8)				Horizontal/vertical requirement
Existing structures within 30	of the proposed b	uilding						Slab heatedNO
Occupancy Use for each area	a as it relates to oc	cupant load calc	culation (Table	1004.1.2)				
Occupant loads for each area								
Exit access travel distances (2.1 % 1006 2.20	1))					
Common path of travel distar Dead end lengths (1020.4)	(140168 1006.	.2.1 & 1000.3.2(*11					1
Clear exit widths for each ex	it door							1
Maximum calculated occupa	ant load capacity e	ach exit door ca	n accommodate	e based on egree	ss width (1005	.3)		1
Actual occupant load for eac								1
A separate schematic plan in	_		iling and/or roc	of structure is pr	ovided for pur	poses of occupancy s	eparation	1
Location of doors with panic	· ·	· ·	24-1- /1012	2.7)				1
Location of doors with delay	-		- '	9.7)				I
Location of doors with elect Location of doors equipped v			<i>~)</i>					
Location of emergency escap	=							1
The square footage of each f	,							1
The square footage of each s	smoke compartme	nt for Occupanc	y Classification	I-2 (407.5)				Junior Davis Care Solutions
Note any code exceptions or	table notes that n	nay have been ut	ilized regarding	the items abov	/e			ryices, Inc

NOTE: Per 2018 NC Building Code Sec. 2902.3.2 TRAVEL DISTANCE TO TOILET FACILITIES SHALL NOT EXCEED 500 FT.

STRUCTURAL

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Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse the following Sestantic Design Parameters: Preverse Parameters:				
Section 1-1 Section 1-		Importance Fact	ore: Wind (I)	
ENERGY SIAMMARY FORTICE TORSIAN ENERGY SIAMMARY FORTICE TORSIAN EVER FOUR MINISTERS ENERGY SIAMMARY FORTICE TORSIAN EVER FOUR MINISTERS				
EVEROY SUMMANY SOSTING TO RESAME SEVEROY SUMMANY SOSTING TO RESAME SOFT REQUIREMENTS. SOME DESCRIPTION OF THE PROPERTY SERVICE STATES AND THE PROPERTY SERV			,	
ENERGY SUMMARY ENSTRACTOREMAN ENERGY SUMMARY ENSTRACTOREMAN AC NUCUENDAMPS: Consequent Content of the Content of Part No. Content of Part No.		Live Loads:	()	
ENERGY SUNDARY ENGLISH SUN				
Comment Store Section				
Wind coals:	FNFDCV SUMMARV EXISTING TO REMAIN	Ground Snow Lo		
Section of Total Assembly Section of Assembly Section of Total Assembly Section of Assembly Section		Wind Loads:	Ultimate Wind Speed	
SSISMIC CATFOONY S C C	-		Exposure Category	N/A
The transfer of firms of summer common commo			· TROOPY	
ing building on deprecupition with code: No YES Section for organization of Edit (International Content of Compilers with code: No YES Section for Compilers with code: No YES Section of Compilers with code of Compilers with code of Section of Sect	sy cost for the standard reference design vs annual energy cost for the proposed			⊠ B
Section Continue	(The remainder of this		_	□ II □ III □ IV
Manage Part And			sponse Acceleration S _s 15.8	_%g S _I <u>7.7</u> %g
March Marc	2040 NO STATE DUIL DING CODE	Site Classific	. ,	
Beauty Wall Deal by Special Monant Process Deal by Microsoft Deal by Special Monant Process Deal by Microsoft Deal by Micr	CHAPTER 13 CRITERIA 1301.1.1	Basic Struct		est Presumptive Historical
Dading Trans Data W International Rev See Special Steel			· · · · · · · · · · · · · · · · · · ·	al Moment Frame
Description of Assembly couch assembly		Building	g Frame Dual W/ Intern	nediate R/C or Special Steel
Description of Assembly		Moment	t Frame Inverted Pendu	lum
Description of Assembly Livides of Foundation Description of Assembly Livides of Foundation Description of Assembly Livides of Foundation Description of Assembly Description	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-		
Description of Assembly		Architectura	al, Mechanical, Components Ancho	red? 🛚 Yes 🔛 No
Description of Assembly		LATERAL D	DESIGN CONTROL:	Earthquake Wind
L-value of Total Assembly Existing to remain		SOIL BEARI	NG CAPACITIES:	
Revalue of Insulation Skylights in each assembly Un'able of skylight Total square focusion of skylights in each assembly Description of Assembly Livides of Total Assembly Edding to remain Unvalue of Total Assembly Un'able of Total Assembly Un'able of Total Assembly Un'able of Insulation Existing to remain Un'able of Total Assembly Un'able of Assembly Solar bett pain coefficient Projection fundation Description of Assembly Un'able of Total Assembly Edding to remain Unvalue of Total Assembly Edding to remain Unvalue Description of Assembly Un'able of Total Assembly Evalue of Total Assembly Evalue of Total Assembly Un'able of Total Assembly Evalue of Total Assembly Un'able of Total Assembly Evalue of Total Assembly Evalue of Total Assembly Un'able of Total Assembly Evalue of Total Assembly Un'able of Total Assembly Electrical SUMMARY Electrical SUMMARY Electrical SUMMARY Electrical Summare efficiency Notice to Total Assembly Electrical Summare efficiency Notice of Total Assembly Electrical Summare efficiency Notice of Total Assembly Interview of Total Assembly Electrical Summare efficiency Notice of Total Assembly Interview of Total Assembly Electrical Summare efficiency Interview of Total Assembly Electrical Summare efficiency Interview of Total Assembly Electrical Summare efficiency Interview of Total Assembly Electrical Summare Electrical System Unitarity Interview of Total Assembly Electrical Summare Electrical Summare Nation of Total Assembly Electrical Summare Interview of Total Assembly Electrical Summare Notice of Total Assembly Electrical Summare Notice of Total	Description of AssemblyExisting to remain	_	= :	
Revalue of insulation	U-value of Total Assembly	•		2,000
Skythyles in each assembly U-Value of dylight Total square founger of skythylights in each assembly Description of Assembly Existing to remain U-value of Total Assembly Existing to remain Openings (windows or doors with glazing) U-Value of Total Assembly Solar heat gain exelficient: Description of Assembly Projection findor— Down R-Value: Down R-Value: Description of Assembly Existing to remain U-value of Total Assembly E	Eviatina ta vamala	Pile Size, Type,	and Capacity	
Caterior Walls (resk) styleth: Caterior Walls (resk) assembly	TO THE OF HISBIRITION			
Total square footage of skylights in each assertedy		MECHANI	ICAL SUMMARY	REFER TO MECHANICAL PLAN
Thermal Zone Winter dy bulb Summar dy bulb				MS AND EQUIPMENT:
Winner dry bulb Summer dry		Thermal Zo	one	
Description of Assembly	Action was (each assembly)	Winter o	dry bulb	
Description of Assembly R-value of finalistics Clycaling of Sessing to remain U-value of Sessing twindows or doors with glassing) Glycaling (windows or doors with glassing) Solar heat gain coefficient: Projection fielder: Projection fielder: Projection fielder: Does (R-Values) Description of Assembly Existing to remain U-value of Total Assembly Besting to remain U-value of Total Assembly Description of Assembly Building Heriting Lond Mechanical Special Conditioning System Unitary Description of Invaliance Description of Assembly Building Heriting Lond Mechanical Special Conditioning System Unitary Description of Invaliance Nounder of Total Assembly Building Heriting Lond Mechanical Special Conditioning System Unitary Description of Unitary Description of Invaliance Nounder of Total Assembly Building Heriting Lond Mechanical Special Conditioning System Unitary Description of Unitary Description of Invaliance Nounder of Total Assembly Building Heriting Lond Mechanical Special Condition Invaliance Nounder of Total Assembly Building Heriting Lond Mechanical Special Condition Invaliance Nounder of Invaliance Description of Unitary Description o		Summer	dry bulb	
U-value of Total Assembly U-value of Total Assembly		Interior De	sign Conditions	
Realise of Insulation Dynamics (windows or doors with glazing) U-Value of Insulation Description of Assembly Description of Assembly Existing to formain Description of Assembly Existing to formain U-value of Total Assembly Description of Assembly Livialue of Total Assembly Revalue of Insulation Description of Assembly Livialue of Total Assembly Revalue of Insulation Livialue of Total Assembly Replied to the Assembly of the Assemb	Description of Assembly		•	
R-value of Imadation Existing to remain Openings (windows or doors with glazing) U-Value of assembly Solar heat gain coefficient: Projection factor. Projection factor. Projection factor. Description of Assembly Existing to remain U-value of Total Assembly R-value of Insulation Description of Assembly Work of Total Assembly U-value of Total Assembly Work of Total Assembly Work of Total Assembly U-value of Insulation U-value of Insulation Horizontal vertical requirement Slab heated NO NO Work of Compliance Energy Code Prescriptive Performant Assembly R-value of Insulation Horizontal vertical requirement Slab heated NO No Work of Compliance No Work of Compli	U-value of Total Assembly		•	
Building Cooling Load	Existing to remain		•	
U-Value of assembly Description of Assembly	R-value of insulation			
Solar heat gain coefficient: Projection fictor: Projection fictor: Description of Assembly Existing to remain U-value of Total Assembly Description of Assembly Existing to remain U-value of Total Assembly Description of Assembly Description of Assembly Description of Assembly U-value of Total Assembly Description of Assembly Description of Assembly Description of Assembly Description of Assembly Existing to remain U-value of Total Assembly Description of Assembly U-value of Total Assembly ELECTRICAL SUMMARY REFER TO ELECTRICAL PL ELECTRICAL SUSTEM AND EQUIPMENT: Method of Compiliance: Energy Code		_	_	
Projection factor— Door R-Values: Valls below grade: (each assembly) Description of Assembly	•		Spacing Conditioning System	
Door R-Values	-	•	cription of unit	
Cooling efficiency Size category of unit Boiler Size category. If oversized, state reason. Chiller Size cate	·	Hea	ting efficiency	
Size category of unit		Coo	ling efficiency	
Description of Assembly		Size	category of unit	
Description of Assembly		Boiler	Size category. If oversized, state re	ason.
U-value of Total Assembly Cloors over unconditioned space: (each assembly) Description of Assembly U-value of Total Assembly U-value of Total Assembly ELECTRICAL SUSTEM AND EQUIPMENT: Cloors slab on grade Description of Assembly 8" Reinforced Conc. / 4" Conc. to match Existing U-value of Total Assembly Berinforced Conc. / 4" Conc. to match Existing U-value of Total Assembly ELECTRICAL SYSTEM AND EQUIPMENT: Method of Compliance: Energy Code				ason
R-value of Insulation Description of Assembly U-value of Total Assembly U-value of Total Assembly Bescription of Assembly U-value of Total Assembly R-value of Insulation U-value of Total Assembly Bescription of Assembly Be	Description of Assembly Existing to remain	1		
Number of phases	U-value of Total Assembly	1 .	•	•
Description of Assembly U-value of Total Assembly Berland on grade Description of Assembly B' Reinforced Conc. / 4" Conc. to match Existing U-value of Total Assembly R-value of Total Assembly R-value of Insulation Horizontal/vertical requirement Slab heated NO No			_	
Description of Assembly U-value of Total Assembly Reflect Total A	Floors over unconditioned space: (each assembly)		-	
Description of Assembly U-value of Total Assembly R-value of Insulation Description of Assembly 8" Reinforced Conc. / 4" Conc. to match Existing U-value of Total Assembly R-value of Insulation U-value of Total Assembly R-value of Insulation Horizontal/vertical requirement Slab heated NO No			•	
Description of Assembly U-value of Total Assembly R-value of Insulation Description of Assembly B" Reinforced Conc. / 4" Conc. to match Existing U-value of Total Assembly U-value of Total Assembly R-value of Total Assembly R-value of Insulation U-value of Total Assembly R-value of Insulation Horizontal/vertical requirement Slab heated NO Ballast ye used in fixture Number of lamps in fixture Number of ballasts in fixture Total wattage per fixture Total wattage specified -vs- allowed Total exterior wattage specified -vs- allowed Additional Prescriptive Compliance C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating		•	•	
U-value of Total Assembly	Description of Assembly			
R-value of Insulation	•	ELECTRIC	CAL SUMMARY	REFER TO ELECTRICAL PLAN
Description of Assembly Seription of Insulation Seription of Insulation Seription	•			
U-value of Total Assembly	loors slab on grade	Method of C	Compliance : Energy Code	Prescriptive Performance
U-value of Total Assembly	Description of Assembly 8" Reinforced Conc. / 4" Conc. to match Existing		ASHRAE 90.1	Prescriptive Performance
Horizontal/vertical requirement Slab heated NO Number of lamps in fixture Ballast type used in fixture Number of ballasts in fixture Total wattage per fixture Total interior wattage specified -vs- allowed Total exterior wattage specified -vs- allowed Additional Prescriptive Compliance C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating		Lighting Sc	hedule(each fixture type)	
Ballast type used in fixture Number of ballasts in fixture Total wattage per fixture Total interior wattage specified -vs- allowed Total exterior wattage specified -vs- allowed Additional Prescriptive Compliance C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating	R-value of Insulation	Lamp ty	pe required in fixture	
Number of ballasts in fixture Total wattage per fixture Total interior wattage specified -vs- allowed Total exterior wattage specified -vs- allowed Additional Prescriptive Compliance C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating	^ .		-	
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Total interior wattage specified -vs- allowed				
Total exterior wattage specified -vs- allowed Additional Prescriptive Compliance C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating				
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C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating			• •	ent Performance
C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating				
C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating			0 0	•
C406.7 Reduced Energy Use in Service Water Heating		C406	5.5 On-Site Renewable Energy	
•		C406	5.6 Dedicated Outdoor Air System	
VICINITY MAP — PROJECT LOCATION		☐ C406	5.7 Reduced Energy Use in Service	Water Heating
VICINITY MAP PROJECT LOCATION				
VICINII I IVIAE PROJECT LOCATION	\/I \C	TV N /	ΛD	O IECT I OCATION
	VICINI	ı t IVI.		OJECT LOCATION

SHEET INDEX

CS-1 CODE SUMMARY INDEX SHEET VICINITY MAP

LS-1 LIFE SAFETY PLAN

<u>CIVIL</u>

COVER

COVER SHEET

EXISTING CONDITIONS/DEMOLITION PLAN

SP2 DRAINAGE PLAN

BUILDING

B-1 EXISTING & DEMO FLOOR PLAN

FLOOR PLAN

ROOF PLAN

B-4 EXTERIOR ELEVATIONS B-5 ACCESSIBILTY DETAILS

PLUMBING

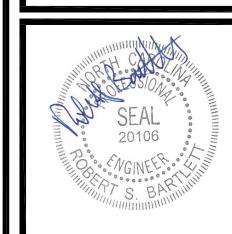
P-1 PLUMBING PLAN

MECHANICAL

ME-1 MECHANICAL & ELECTRICAL PLAN

CITY OF WILSON PO Box 10 Wilson, NC 27893



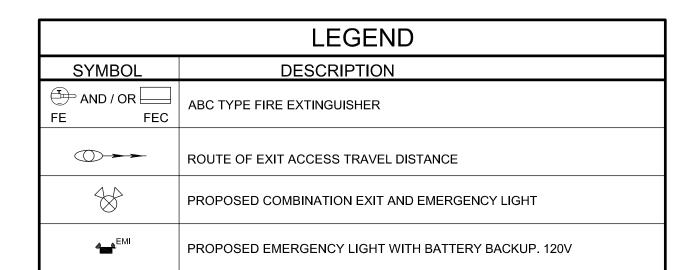


CODE

Issue Date: 01-10-202 Project Number: 24-037 CS-1

STRUCT. FRAME PLUMB MECH ELEC BARTLETT ENGINEERING & SURVEYING, PC V (252) 399-0704 F (252) 399-0804 www.bartletteng.com

PLANNING | MANAGEMENT | DESIGN-BUILD 2801-C Nash St NW Wilson, NC 27896 License # 51638 (252) 265-0035



	NOTE: WALL MOUNTED FIRE EXTINGUISHER SHALL BE MOUNTED SAME HEIGHT AS THE RECESSED CABINET	
\sim		-r\sqr
	10 lb 2A FIRE EXTINGUISHER	
2	WALL MOUNTED FIRE EXTINGUISHER CABINET—	
07	STUD WALL - SEE ROOM FINISH SCHEDULE	
ELEVATION	N	SECTION
		

DETAIL	SCALE: 1/4" = 1'-0"
FIRE EXTINGUISHER	WALL MOUNTED

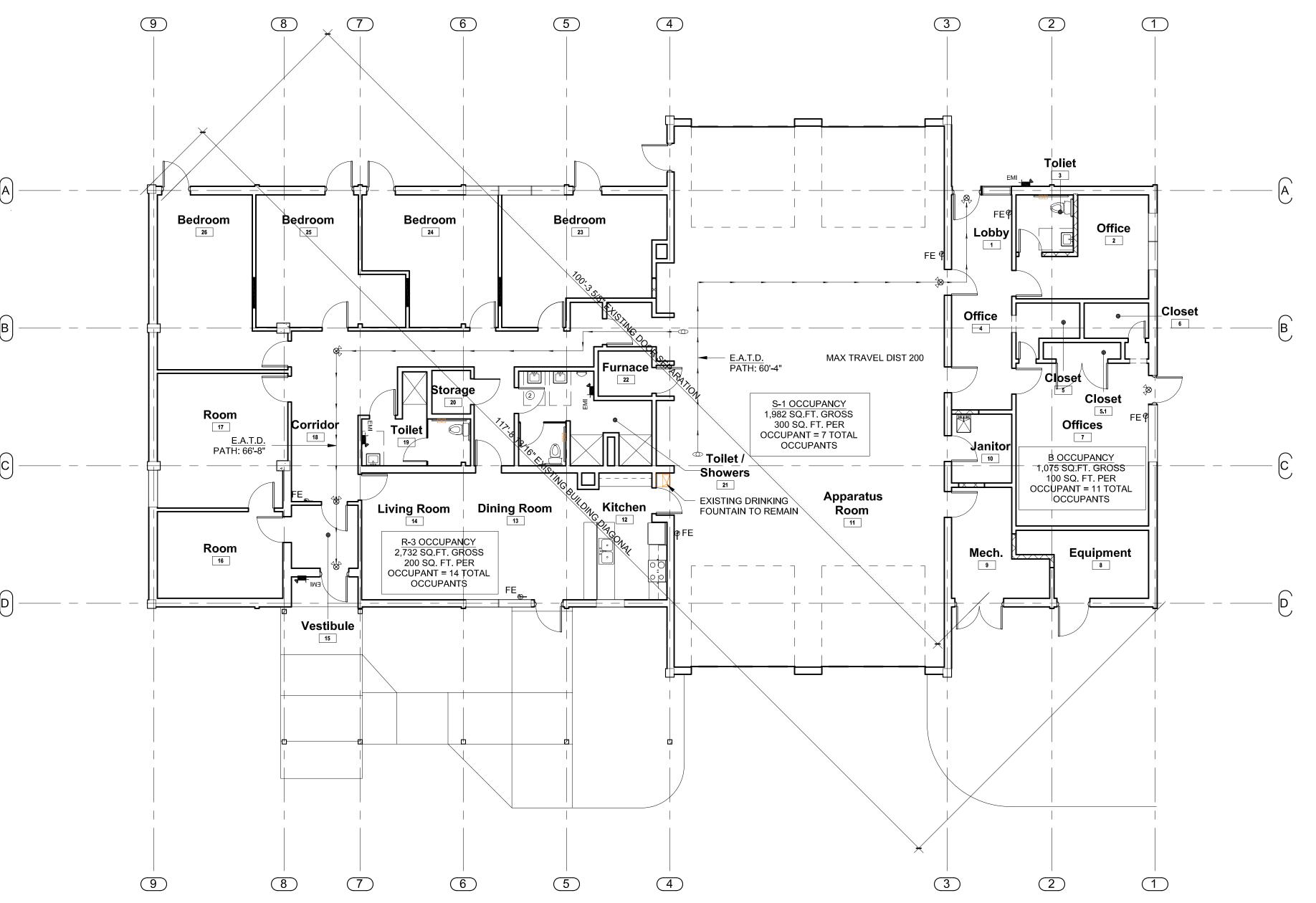
	OCCUPANT DOOR LOAD DATA										
DOOR NUMBER	REQ'D EXIT	CLEAR DOOR WIDTH	EGRESS WIDTH PER OCCUPANT	MAX. OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	PERCENTAGE OF REQ'D CAPACITY	PANIC HARDWARE REQ'D	DELAYED EGRESS LOCKS	AMOUNT OF TIME DELAY	ELECTRO- MAGNETIC LOCKS	HOLD OPEN DEVICE
-	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
_	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
_	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
-	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
_	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
-	YES	34"	0.2"	28	6	100%	NO	NO	N/A	NO	NO
_	YES	34"	0.2"	11	2	100%	NO	NO	N/A	NO	NO
-	YES	34"	0.2"	7	4	100%	NO	NO	N/A	NO	NO
-	YES	34"	0.2"	7	4	100%	NO	NO	N/A	NO	NO
_	YES	34"	0.2"	7	4	100%	NO	NO	N/A	NO	NO

2018 NCSBC BUILDING CODE

S-1 OCCUPANCY
FIRST STORY COMMON PATH OF EGRESS TRAVEL
IS 100FT. WHEN OCCUPANT LOAD IS GREATER THAN
30 TABLE 1006.2.1

B OCCUPANCY
COMMON PATH OF EGRESS TRAVEL IS 100FT. WHEN
THE OCCUPANT LOAD IS LESS THAN 49 TABLE

R-3 OCCUPANCY
COMMON PATH OF EGRESS TRAVEL IS 125FT. WHEN
THE OCCUPANT LOAD IS LESS THAN 20 TABLE







Improvements to Fire Station
109 Forest Hills Rd NW
Wilson, NC 27893

CITY OF WILSON PO Box 10 Wilson, NC 27893

Drawn by: P. RILEY
Issue Date: 01-10-25
Project Number: 24-037
Sheet:
LS-1

SITE PLAN FOR DRAINAGE IMPROVEMENTS

FIRE STATION #4

109 Forest Hills Road NW
Wilson Township
Wilson County, North Carolina
November 2024

DEVELOPER:

CITY OF WILSON
PO BOX 10
WILSON, NC 27893

PREPARED BY:

BARTLETT ENGINEERING & SURVEYING, PC 1906 NASH STREET NORTH WILSON, NORTH CAROLINA 27893-1726 TELE: (252) 399-0704

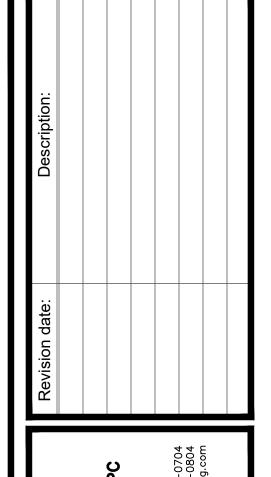
SHEET INDEX

CV COVER SHEET

SP1 EXISTING CONDITIONS/DEMOLITION PLAN

SP2 DRAINAGE PLAN



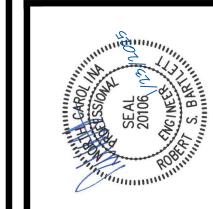


ENGINEERING & SURVEYING, F

1906 Nash Street North Wilson, NC 27893-1726 FAX: (252) 399License # C-1551

www.bartletten

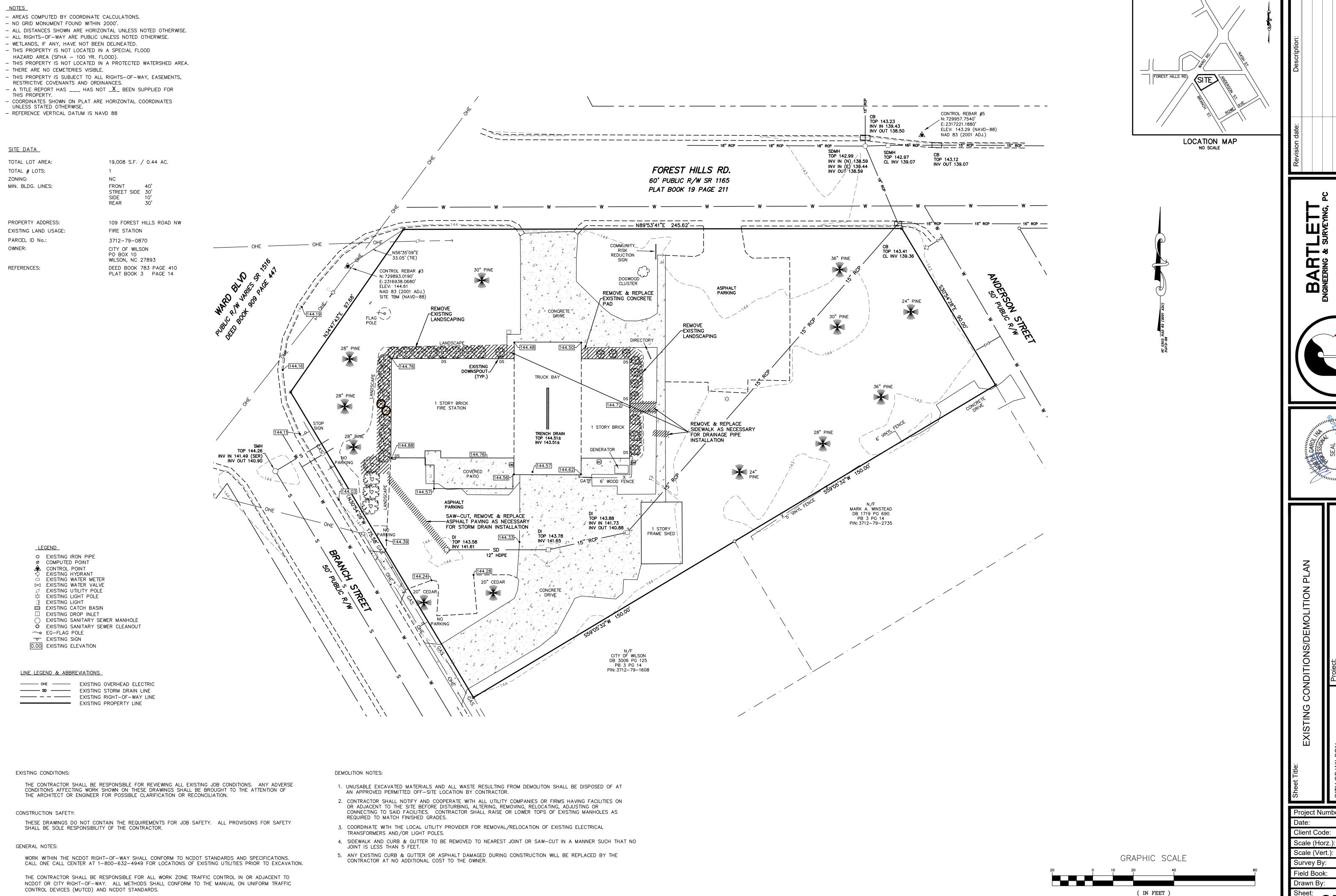




SON Project:
NITY, NC
Project:
FIRE STATION #4

••••		_ 10
Project Number:	23-046	_LANDPROJECTS\WC\23046\dwg\23
)ate:	NOV. 2024	46\d
Client Code:	WC	\230
Scale (Horz.):	N/A	/wc/
Scale (Vert.):	N/A	:CTS
Survey By:	JEB/JAG	ROJE
ield Book:	407	ANDF
)rawn Bv [.]	IR]

CV



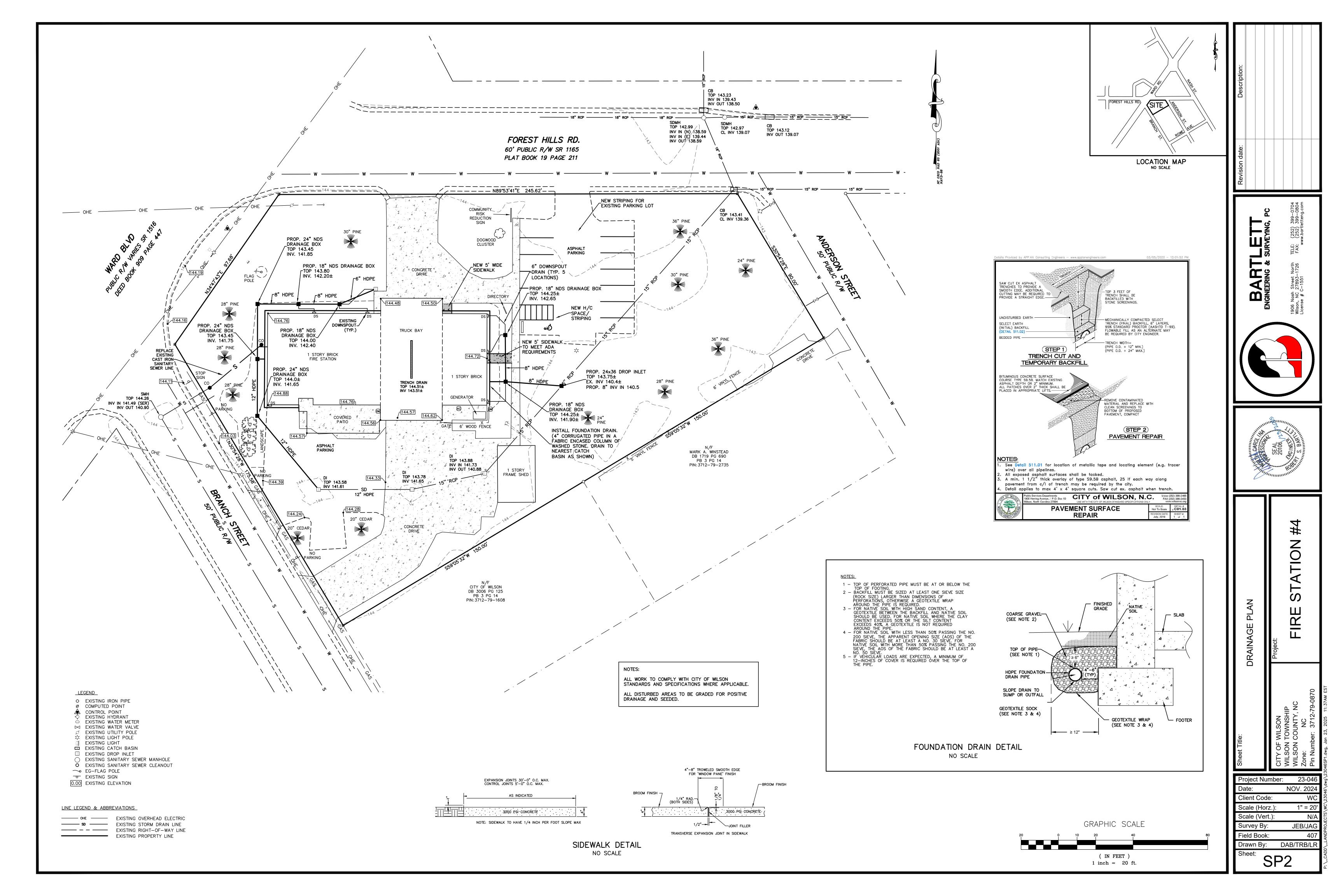
23-046 NOV. 2024 1" = 20' JEB/JAG DAB/TRE

1 inch = 20 ft.





Project Number:



DEMO - WALL LEGEND SYMBOL EXISTING WALL TO REMAIN DEMO SLAB ON GRADE AS REQUIRED FOR REMOVAL AND REPLACEMENT OF EXISTING SEWER LINE DEMO EXISTING WALLS / DOORS / FRAMES AS NEEDED WHERE SOG DEMO EXISTING CABINETS NOTES: 1. R-11 SOUND BATT INSULATION IN PROPOSED INTERIOR STUD WALLS.

GENERAL NOTE

GC TO COORDINATE ALL SHEETS WITH ONE ANOTHER AND CONFIRM EXISTING CONDITIONS VS. PROPOSED NEW WORK.

ADA IMPROVEMENTS

- ADD H/C PARKING SPACE AND VAN ACCESSIBILITY.
- 2. ADD ADA ACCESSIBLE ENTRANCE SIDEWALKS AT TWO ENTRANCES.
- 3. INCREASED ADA ACCESSIBILITY IN TOILET 3.

DEMOLITION NOTES

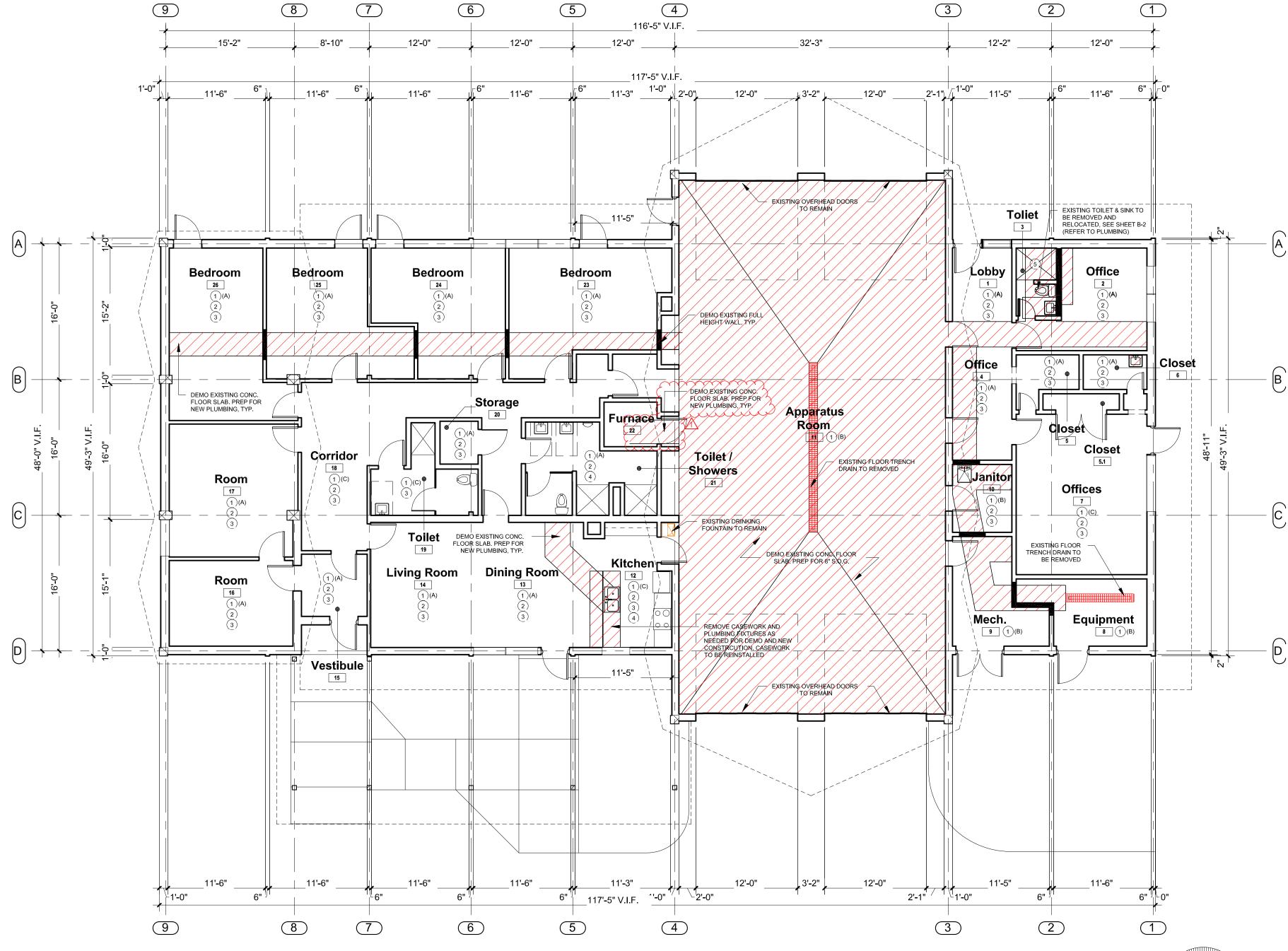
- REMOVE EXISTING WALLS SCHEDULED TO BE DEMOLISHED. PROVIDE ADEQUATE / ENGINEERED SHORING AS REQUIRED.
- PRESERVE EXISITNG DOORS AND HARWARE.
- PREPARE EXISITNG SLAB ON GRADE TO RECEIVE NEW POURED CONCRETE AT AREAS OF
- REMOVE EXISTING DOORS AND FRAMES AS NEEDED FOR WORK. TO BE REINSTALLED.
- GC TO PROVIDE PROTECTION THROUGHOUT WORK AREAS FOR DURATION OF PROJECT.
- 6. GC TO PATCH + REPAIR ALL DAMAGE DONE BY GC AT NO ADDITIONAL COST TO OWNER.

DEMOLITION KEYNOTES

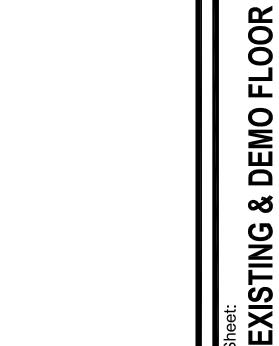
- EXISTING FLOOR COVERING TO BE REMOVED. REMOVE GLUE COMPLETELY AND PREPARE SLABS FOR MOISTURE REMEDIATION PER MANUFACTURER RECOMMENDATIONS.
 - EXISTING CARPET TILE EXISTING CONCRETE
 - (C) EXISTING LVT
- EXISTING ACOUSTIC CEILING TILE AND GRID TO BE REMOVED
- EXISTING BASE TO BE REMOVED
- EXISTING CASEWORK TO BE REMOVED & REINSTALLED AS NEEDED FOR NEW CONSTRUCTION

NOTE:
-ALL EXISTING DIMENSIONS TO BE
VERIFIED IN FIELD.

EXISTING PLUMBING FIXTURES & ALL ASSOCIATED PLUMBING TO BE REMOVED



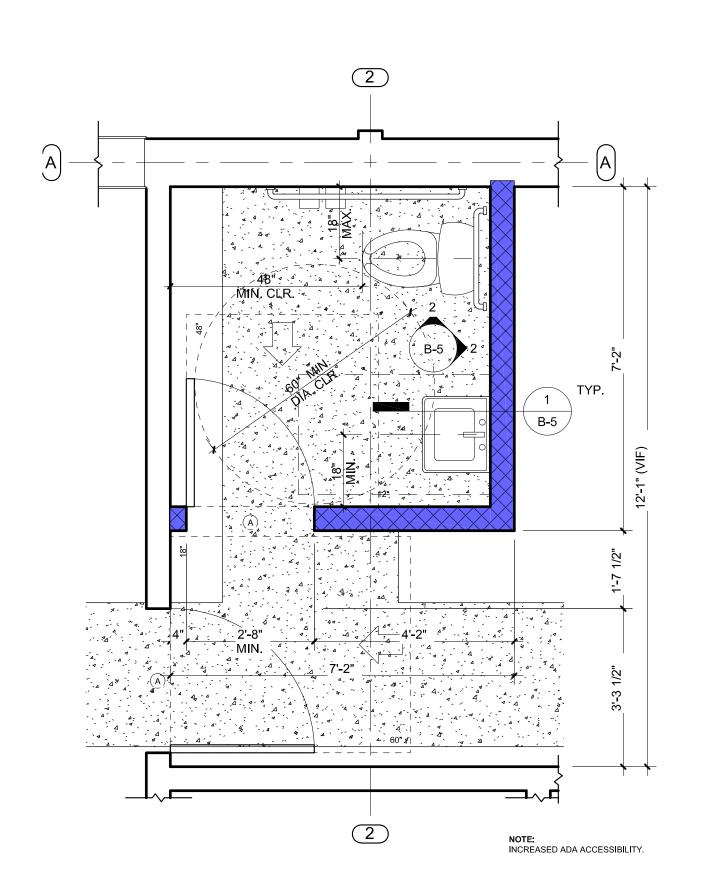
EXISTING & DEMO FLOOR PLAN SCALE: 1/8" = 1'-0"



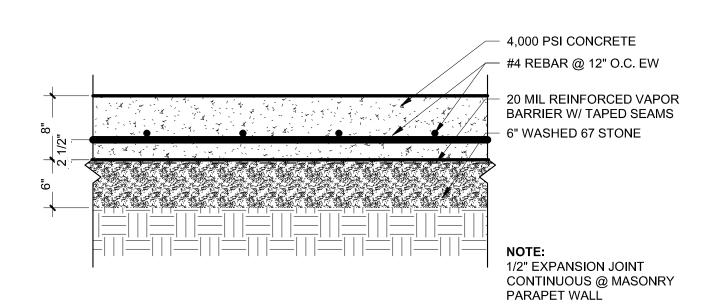
01-10-25 Project Number: 24-037 **B-1**

CITY OF WILSON PO Box 10 Wilson, NC 27893

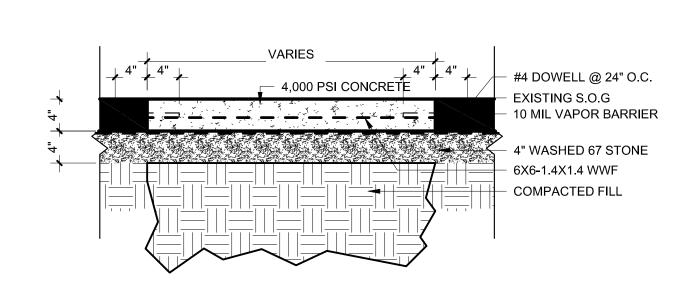
to Fire Station at Hills Rd NW NC 27893 Improvements to 109 Forest I



ENLARGED TOILET #3 PLAN

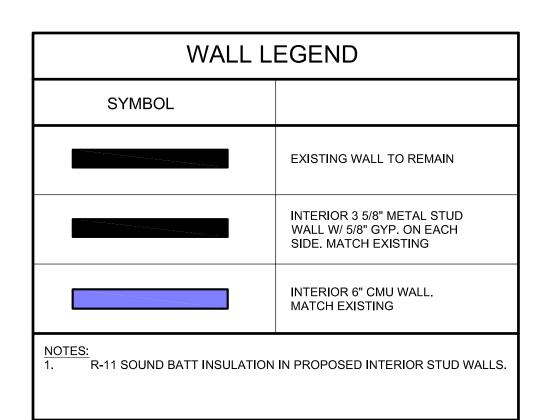


TRUCK BAY CONC. SLAB DETAIL SCALE: 1" = 1'-0"





SCALE: 1/2" = 1'-0"



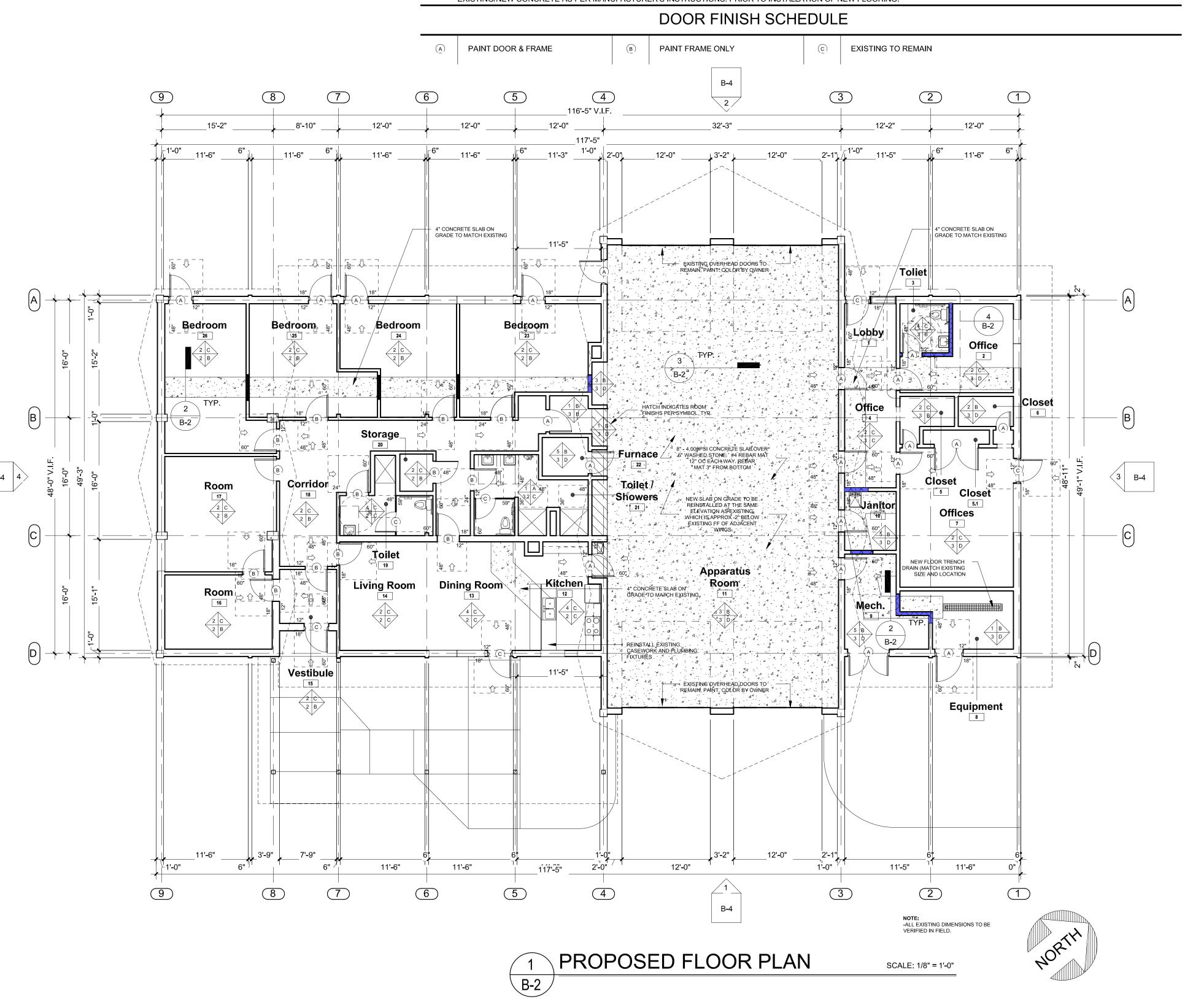
			ROOM FINISH SCH	EDUL	E		FLOOR BASE WALLS CEILING
	FLOOR		BASE		WALLS		CEILING
1	EXISTING TO REMAIN	A	EXISTING TO REMAIN	1	NONE	А	EXISTING TO REMAIN
2	CARPET - 24" X 24" TILES STYLE & COLOR CHOSEN BY OWNER	В	NONE	2	PAINTED 3 COATS (1 COAT PRIMER & 2 COATS FINSH) LATEX PAINT, EGGSHELL SHEEN, COLOR BY OWNER	В	2' X 2' A.C.T. SYSTEM, TEGULAR EDGE, 15/16" GRID, MATCH EXISTING CEILING HEIGHT
3	SMOOTH CONC. FINISH CURING COMPOUND APPLIED SAME DAY AS CONC. POUR & FINISH. COLORING PER OWNER REQUIREMENTS	С	4" HIGH RUBBER COVE ROPPE 700 SERIES COLOR BY OWNER	3	PAINTED 3 COATS (1 COAT PRIMER & 2 COATS FINISH) LATEX PAINT SEMI GLOSS, COLOR BY OWNER	С	EXPOSED DRYWALL TO BE PRIMED & PAINTED, COLOR BY OWNER
4	LVT						EXPOSED CEILING, EXISTING
5	SCRAPE AND PAINT CONC.					D	SURFACES TO BE PRIMED AND PAINTED, COLOR BY OWNER

PAINT ALL EXISTING AND NEW INTERIOR WALLS.

ALL FINISH TO BE AS SPECIFIED, UNLESS OTHERWISE NOTED. ALL COLORS OF FINISHES TO BE SELECTED BY OWNER.

ALL EXISTING PAINTED TRIM AND CASEWORK TO BE PREPPED AND REPAINTED WITH 2 FINISH COATS.

ALL AREAS THAT RECEIVE NEW FLOOR COVERING: PROVIDE MOISTURE TEST, FOLLOWED BY MOISTURE REMEDIATION VIA FLUID APPLIED VAPOR BARRIER, MAIPEI PLANSEAL VS, ON EXISTING/NEW CONCRETE AS PER MANUFACTURER'S INSTRUCTIONS: PRIOR TO INSTALLATION OF NEW FLOORING.





109 Forest

01-10-25 Project Number: 24-037 **B-2**

GC TO COORDINATE ALL SHEETS WITH ONE ANOTHER AND CONFIRM EXISTING CONDITIONS VS. PROPOSED NEW WORK.

GENERAL ROOF NOTES

- 1. GC TO PROVIDE PROTECTION THROUGHOUT WORK AREAS FOR DURATION OF PROJECT.
- 2. GC TO PATCH + REPAIR ALL DAMAGE DONE BY GC AT NO ADDITIONAL COST TO OWNER.

FINISH SPECIFICATIONS

(GENERAL CONTRACTOR TO SUBMIT COLOR SAMPLES FOR APPROVAL)

FLOORS	CONCRETE SEALANT: BETCO "SURE CURE" FLOOR SEALER AND FINISH OR EQUAL
PRIOR TO INSTALLATION OF NEW FLOORING:	COLOR: SELECTED BY OWNER
	CARPET TILES:
ALL AREAS TO RECEIVE MOISTURE REMEDIATION VIA MAIPEI PLANSEAL	MILLIKEN CUSHION BACK CARPET TILES COLOR SERIES: NORDIC STORIES
VS ON EXISTING CONCRETE AS PER	
MANUFACTURER'S INSTRUCTIONS.	LVT: MILLIKEN FLEXFORM LVT
	COLOR SERIES: FORTIFIED FOUNDATIONS 5.0
CEILING	ACT:
	ARMSTRONG, 2' x 2' SQUARE ACOUSTICAL LAY-IN TILE & GRID OR EQUAL
	COLOR: SELECTED BY OWNER
	DRYWALL:
	(1) COAT SHERWIN WILLIAMS DRYWALL PRIMER OR EQUAL
	(2) COATS SHERWIN WILLIAMS EGGSHEL / SATIN PAINT COLOR: SELECTED BY OWNER
	GOLGIN. GELEGIES ST GWILLIN
BASE	ROPPE 4" HIGH RUBBER COVE BASE OR EQUAL
	COLOR: SELECTED BY OWNER
DOORS AND FRAMES	(2) COATS SHERWIN WILLIAMS SEMI-GLOSS PAINT COLOR: SELECTED BY OWNER
INTERIOR WALLS	DRYWALL PAINT
INTERIOR WALLS	(1) COAT SHERWIN WILLIAMS DRYWALL PRIMER OR EQUAL
	(2) COATS SHERWIN WILLIAMS EGGSHEL / SATIN PAINT
	COLOR: SELECTED BY OWNER
	BLOCK PAINT
	(1) COAT SHERWIN WILLIAMS "PREPRITE" BLOCK FILLER OR EQUAL
	(2) COATS SHERWIN WILLIAMS SEMI-GLOSS PAINT
	COLOR: SELECTED BY OWNER

ACESSORIES

-	ACECCONIEC	
	CABINETS	MELAMINE EXTERIOR AND INTERIOR SURFACES
		COLOR: SELECTED BY OWNER
	PLASTIC LAMINATE TOPS	WILSONART, "SERIES 60" FINISH OR EQUAL
		COLOR: SELECTED BY OWNER

TOILET ACCESSORIES

PAPER HOLDER	AMERICAN SPECIALTIES #0263-1 OR EQUAL
TOWEL DISPENSER	AMERICAN SPECIALTIES #0210 OR EQUAL
SOAP DISPENSER	AMERICAN SPECIALTIES #0345 OR EQUAL
GRAB BARS	AMERICAN SPECIALTIES #3801P, 18", 36", 42"
MIRROR	WALL HUNG 24"W x 36"H, ALUMINUM EDGE TRIM
RESTROOM SIGNAGE	WOMEN'S AND MEN'S WHEELCHAIR ACCESSIBLE BATHROOM SIGN-
	ADA COMPLIANT TACTILE BRAILLE SIGN 6" X 8"
	COLOR: WHITE ON BLUE BACKGROUND

DOOR HARDWARE SCHEDULE

ALL HARDWARE TO HAVE MATCH EXISTING FINISH					
LOCKSET	"YALE" 4600LN, GRADE 2 LOCKSET OR EQUAL				
CLOSERS	GRADE 1 w/ FULL COVER, 2500 OR EQUAL				
EXTERIOR AND INTERIOR DOOR	BALL BEARING HINGES WITH 32D FINISH OR EQUAL				
HINGES					
DOOR STOPS	"MCKINNEY" WROUGHT ALL STOPS No. WSO2 WITH STAINLESS				
	STEEL FINISH OR EQUAL				
KICK-DOWN DOOR STOP	"ROCKWOOD", #460				
PANIC EXIT DEVICE	NONE				

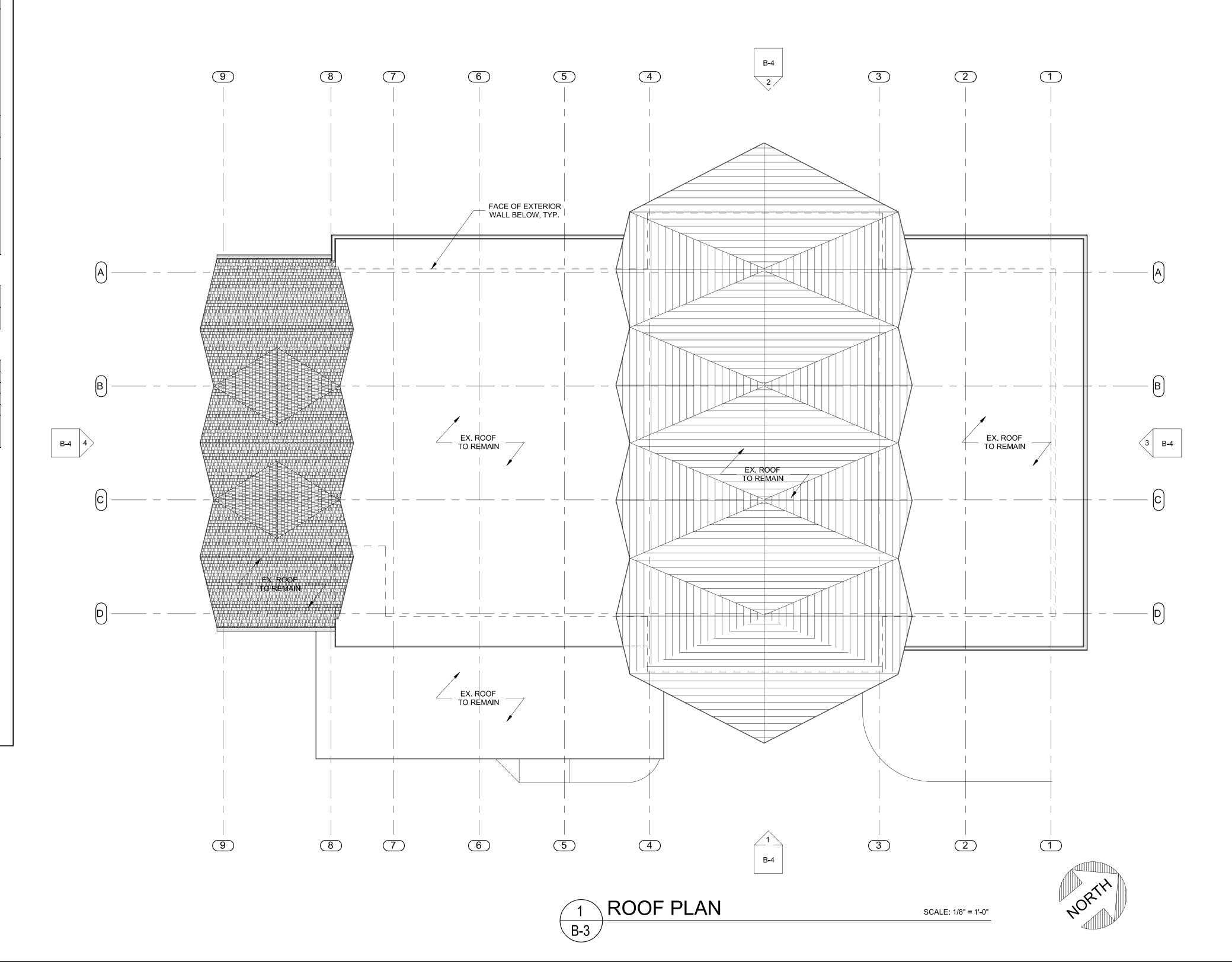
NOTES

- EACH DOOR TO HAVE DOOR STOPS, SEE HARDWARE SCHEDULE
- MANUFACTURER SHALL SUPPLY MASTER KEY(S) TO FIT ALL DOORS VERIFY KEYING SCHEMES W/ OWNER
- G.C. TO FURNISH AND INSTALL ALL ADA RESTROOM SIGNAGE, ALL OTHER INTERIOR SIGNAGE TO BE FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR AS PER ADA REQUIREMENTS

ABBREVIATIONS

T – TEMPERED GLASS

- TN TINTED
- WG WIRE GLASS
- SWG SAFETY WIRE GLASS
- SG SPANDREL GLASS



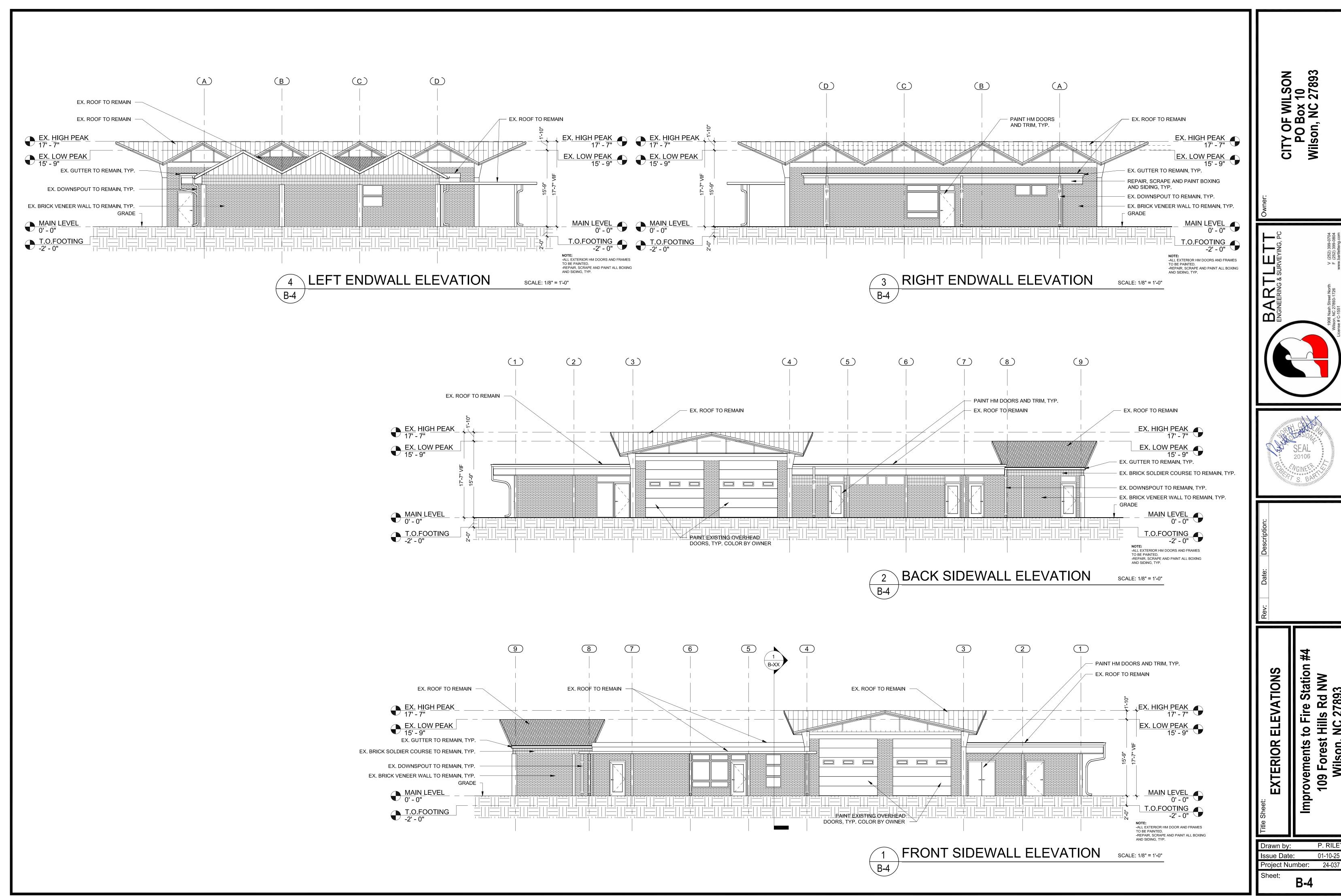
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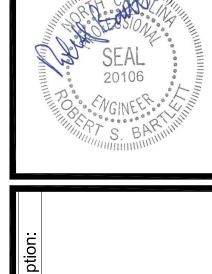


01-10-25 Project Number: 24-037

B-3

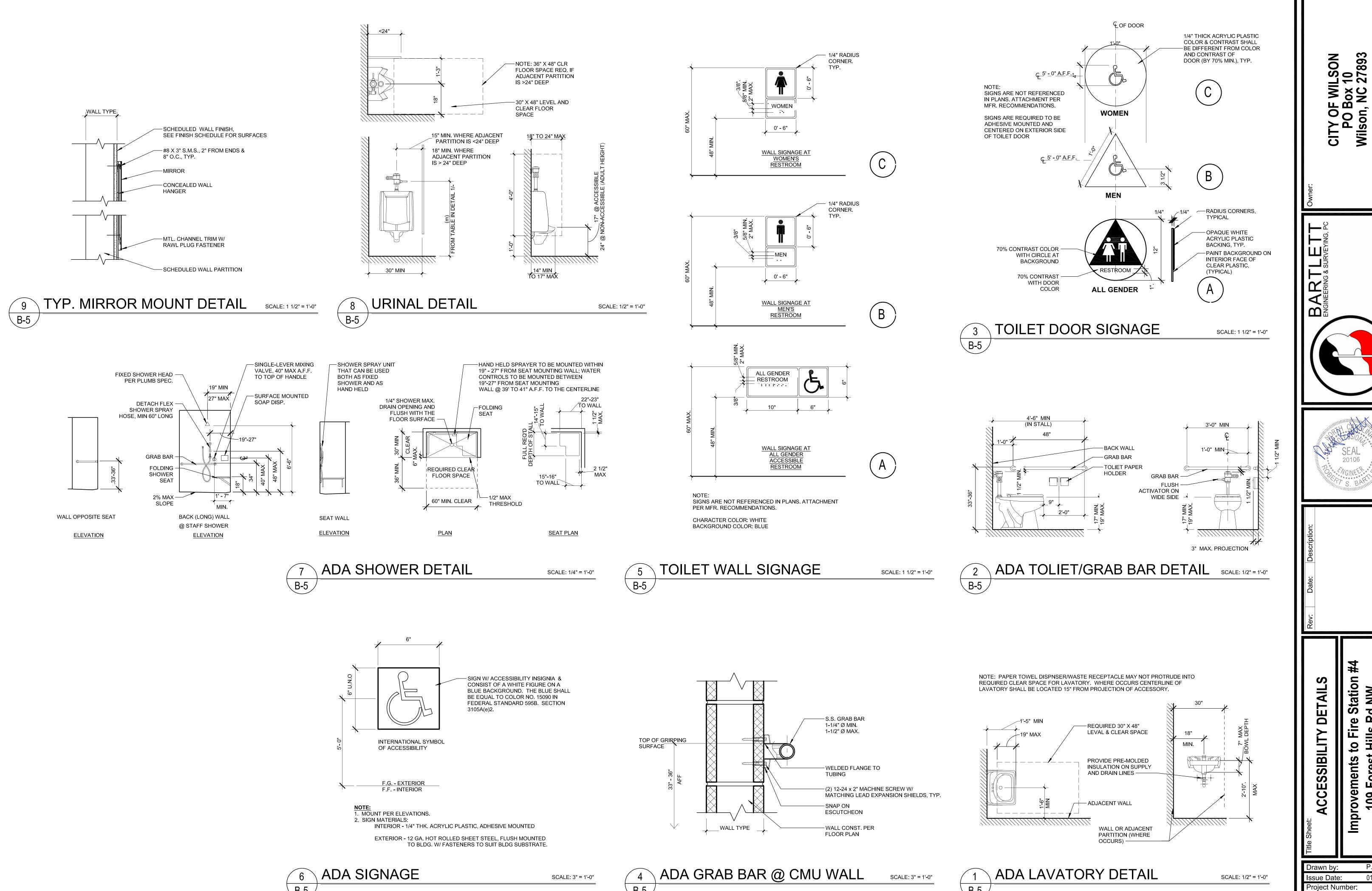






Improvements to 109 Forest I Wilson, N

01-10-25



Issue Date: 01-10-25
Project Number: 24-037
Sheet: **B-5**

PLUMBING LEGEND					
DESCRIPTION	SYMBOL				
COLD WATER		CW			
HOT WATER		HW			
VENT PIPING		٧			
WASTE PIPING		W			
CLEAN OUT AT GRADE	COAG				
FLOOR CLEAN OUT	• FCO				
CHECK VALVE	- ₹-				
SHUT-OFF VALVE	×				
FIXTURE DESIGNATION	<u>P</u>				
MOUNTING HEIGHT	МН				
AIR ADMITTANCE DEVICE	AAD				

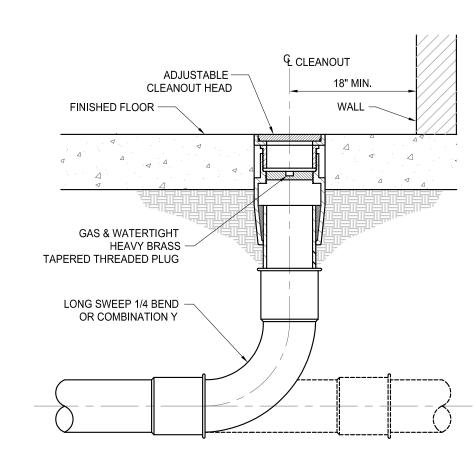
	PLUMBING FIXTURE SCHEDULE						
MARK	MAKE	DESCRIPTION					
<u>P-1</u>	AMERICAN STANDARD OR EQUAL	1.6 GAL. ELONGATED, FLOOR MTD. FLUSH TANK WATER CLOSET WITH OPEN FRONT SEAT.					
<u>P-2</u>	AMERICAN STANDARD OR EQUAL	WALL HUNG LAVATORY WITH FAUCET & DRAIN. TEMP. @ FAUCET SET @ 115°F MAX.					
<u>P-3</u>	ACO OR EQUAL	"KlassikDrain" KS300 12" WIDE X 8'-0" LONG STAINLESS STEEL TRENCH DRAIN WITH TYPE "848D" STAINLESS STEEL, ADA COMPLIANT, HEEL-SAFE GRATE					
		CLOSETS SHALL BE ON APPROACH SIDE OF FIXTURE. URES AND FAUCETS WITH OWNER PRIOR TO INSTALLATION.					

GENERAL PLUMBING NOTES

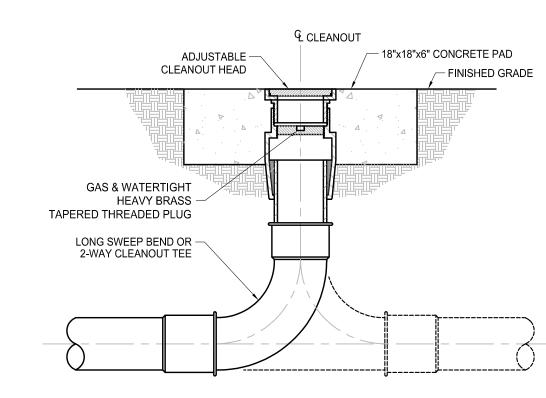
- 1. ALL WORK SHALL BE IN COMPLIANCE WITH LOCAL, STATE, AND NATIONAL CODES.
- 2. CONTRACTOR SHALL COORDINATE PIPING WITH ALL OTHER TRADES.
- 3. CONTRACTOR SHALL REFER TO "B" SHEETS FOR DIMENSIONS.
- 4. CONTRACTOR SHALL FURNISH AND INSTALL DIELECTRIC UNIONS AT ALL CONNECTIONS BETWEEN DISSIMILAR
- 5. CONTRACTOR SHALL FURNISH AND INSTALL ESCUTCHEONS AND COVER PLATES AT ALL FINISHED WALLS, CEILINGS AND FLOOR OPENINGS.
- 6. PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH STATE AND LOCAL CODE.
- 7. ALL PIPING SHALL BE TESTED FOR LEAKS. IF ANY LEAKS ARE DETECTED THE PIPING SHALL BE REPAIRED OR REPLACED AND RETESTED.
- 8. INSULATE ALL NEW HOT & COLD WATER PIPING.
- 9. NEW SUPPLY PIPING SHALL BE PEX.
- 10. NEW WASTE AND VENT PIPING SHALL BE SCH. 40 PVC. & SCH. 80 PVC UNDER TRAFFIC AREAS.
- 11. SET HOT WATER TEMPERATURE FROM NEW LAVATORY FAUCETS TO 115 DEGREE F. MAX.
- 12. PROVIDE SHUT-OFF VALVES IN ALL SUPPLY PIPING LINES ABOVE CEILING FOR ALL NEW DROPS AND AT NEW PLUMBING FIXTURES. PROVIDE ACCESS TO ALL VALVES AS REQUIRED IN HARD CEILINGS.
- 13. PLUMBING LAYOUTS ARE SCHEMATIC. ALL RISES, DROPS, OFFSETS, AND TRANSITIONS REQUIRED BUT NOT SHOWN SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE
- 14. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION.

PLUMBING CALCULATIONS							
ITCLA	# OF	SUPP	LY FIXTURE	WASTE			
ITEM	# OF	COLD	HOT	TOTAL	FIXTURE UNITS		
FLUSH TANK WATER CLOSET	3	5.0	-	5.0	6		
LAVATORY	4	1.5	1.5	2.0	1		
KITCHEN SINK	1	1.0	1.0	1.4	2		
JAN. SINK	1	2.25	2.25	3.0	2		
SHOWER	3	3.0	3.0	4.0	2		
GPM - 26	3.3	COLD TOTAL	HOT TOTAL	TOTAL	WASTE TOTAL		
<u>-</u>	_	33.25	18.25	39.4	32		
		NOTE: EXISTING MAIN COLD WATER LINE TO REMAIN. VERIFY EXACT LOCATION & CONDITIONS AT SITE PRIOR TO CONSTRUCTION					

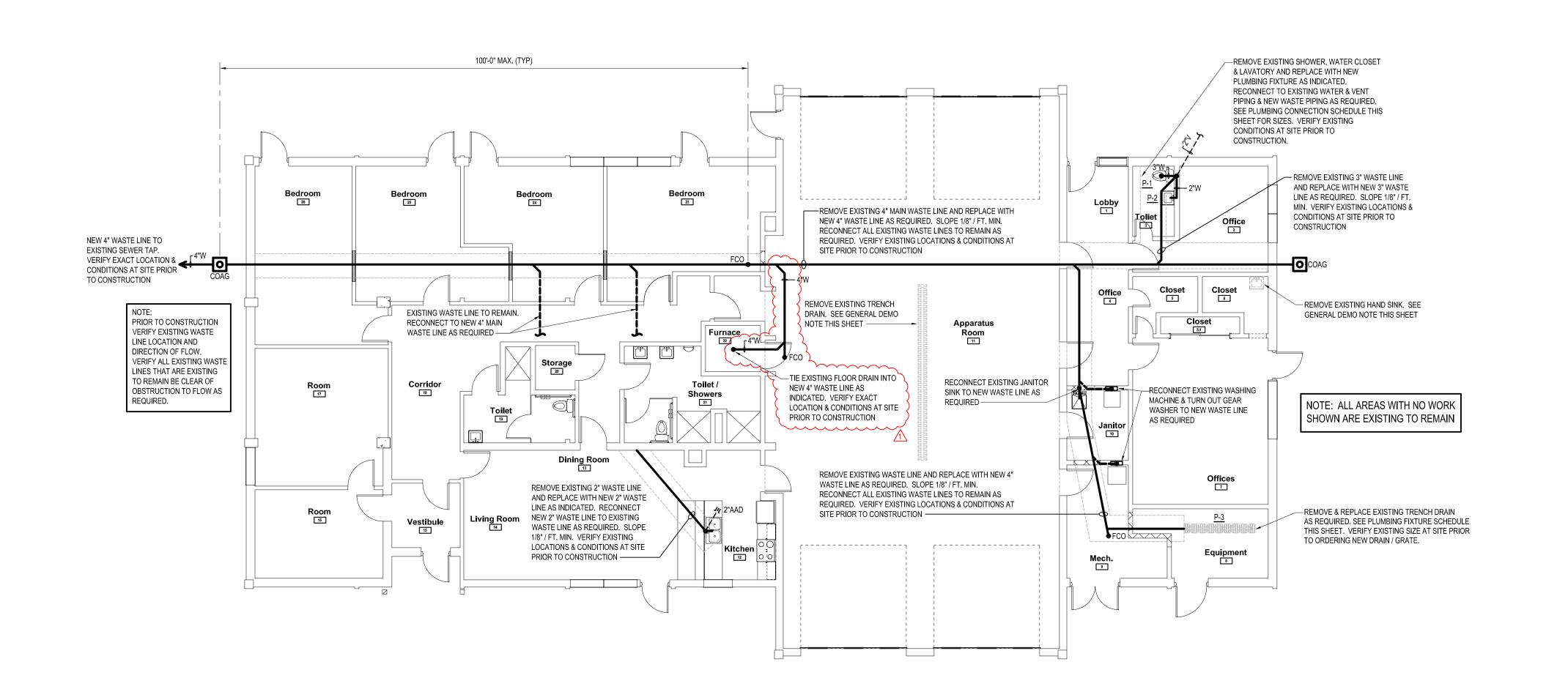
PLUMBING CONNECTION SCHEDULE								
FIXTURE	CW	HW	WASTE	VENT				
FLUSH TANK WATER CLOSET	1/2"	-	3"	2"				
LAVATORY	1/2"	1/2"	2"	1 1/2"				
JAN. SINK	1/2"	1/2"	2"	1 1/2"				



DETAIL - FLOOR CLEAN OUT



DETAIL - CLEAN OUT AT GRADE





BACKFLOW PREVENTER NOTE:

VERIFY LOCATION OF EXISTING BACK FLOW PREVENTER & WORKING CONDITION FOR PROPOSED USE PRIOR TO CONSTRUCTION. PROVIDE & INSTALL NEW BACK FLOW PREVENTER IN COLD WATER MAIN AS REQUIRED FOR PROPOSED USE.

GENERAL DEMO NOTE:

REMOVE ALL UNUSED PLUMBING LINES, FIXTURES, ETC. AS REQUIRED. CAP PIPING BELOW FLOOR, IN WALL ABOVE CEILING AS REQUIRED. DISPOSE OF ALL MATERIALS PROPERLY.





PLUMBING

Drawn by: J. Thompsor Issue Date: 01-10-25 Project Number: 24-037

Sheet:

P-1

ELECTRICAL LEGEND						
MARK	DESCRIPTION	DESCRIPTION				
\$ 0/0	"LED" LIGHT FIXTURE (WALL/CEIL.)	Ø	EXHAUST FAN			
	"LED" LIGHT FIXTURE	~~	SWITCHED BRANCH CIRCUIT			
N/L	"LED" UNSWITCHED LIGHT FIXT. WITH BATTERY STANDBY (SECURITY/ EMERGENCY LT.)	Y ~	UNSWITCHED BRANCH CIRCUIT			
₩	"LED" COMBO EXIT/EM. LIGHT	_/	HOMERUN			
₩	"LED" BATTERY OPERATED EMERG. LT. (2-HEAD, WALL MTD.)	© ⊣	COMBINATION SMOKE / CARBON / HEAT DETECTOR. INTERCONNECT DETECTORS FOR EACH BEDROOM TOGETHER AS PER LOCAL			
\$	SINGLE-POLE SWITCH		FIRE MARSHAL REQUIREMENTS. DO NOT CONNECT TO FIRE ALARM SYSTEM.			

ECTRICAL SYSTEM AND EQUIPMENT:	
Method of Complience :	
Prescriptive (Energy Code)	rescriptive (ASHRAE 90.1)
Performance (Energy Code)	erformance (ASHRAE 90.1)
Lighting Schedule	
Lamp type required in fixture	THIS SHEET
Number of lamps in fixture	
Ballast type used in fixture	
Number of ballasts in fixture	
Total wattage per fixture	
Total interior wattage specified -vs- allowed _	
Total exterior wattage specified -vs- allowed_	
Additional Prescriptive Compliance	
506.2.1 More Efficient Mechanical Equipm	ment
506.2.2 Reduced Lighting Power Density	
506.2.3 Energy Recovery Ventilation Systems	ems
506.2.4 Higher Efficiency Service Water F	Heating
506.2.5 On-Site Supply of Renewable Ene	rgy
506.2.6 Automatic Daylighting Control Sy	estems

			CEILING FA	AN SCH	HEDULE						
MARK	MAKE *	SERIES / MODEL	TYPE	SIZE	WEIGHT	RPM	WATTS	ELECTRI VOLTAGE	CAL CHAF PH.	RACTERIST MCA	TICS MOCP
CF-1, 2, 3, 4 & 5	HUNTER	BUILDER ELITE	INDOOR CEILING FAN	52"	16 LBS.	155 RPM	100 WATTS	120	1	0.85	15
			-								

- 1. PROVIDE AND INSTALL WITH WIRED SPEED CONTROLLER & SUSPENSION KIT. 2. VERIFY AND MAINTAIN CLEARANCES WITH MANUFACTURER PRIOR TO INSTALLATION.
- 3. COLOR SELECTED BY OWNER.
- * EQUAL BY MINKA-AIRE, KICHLER

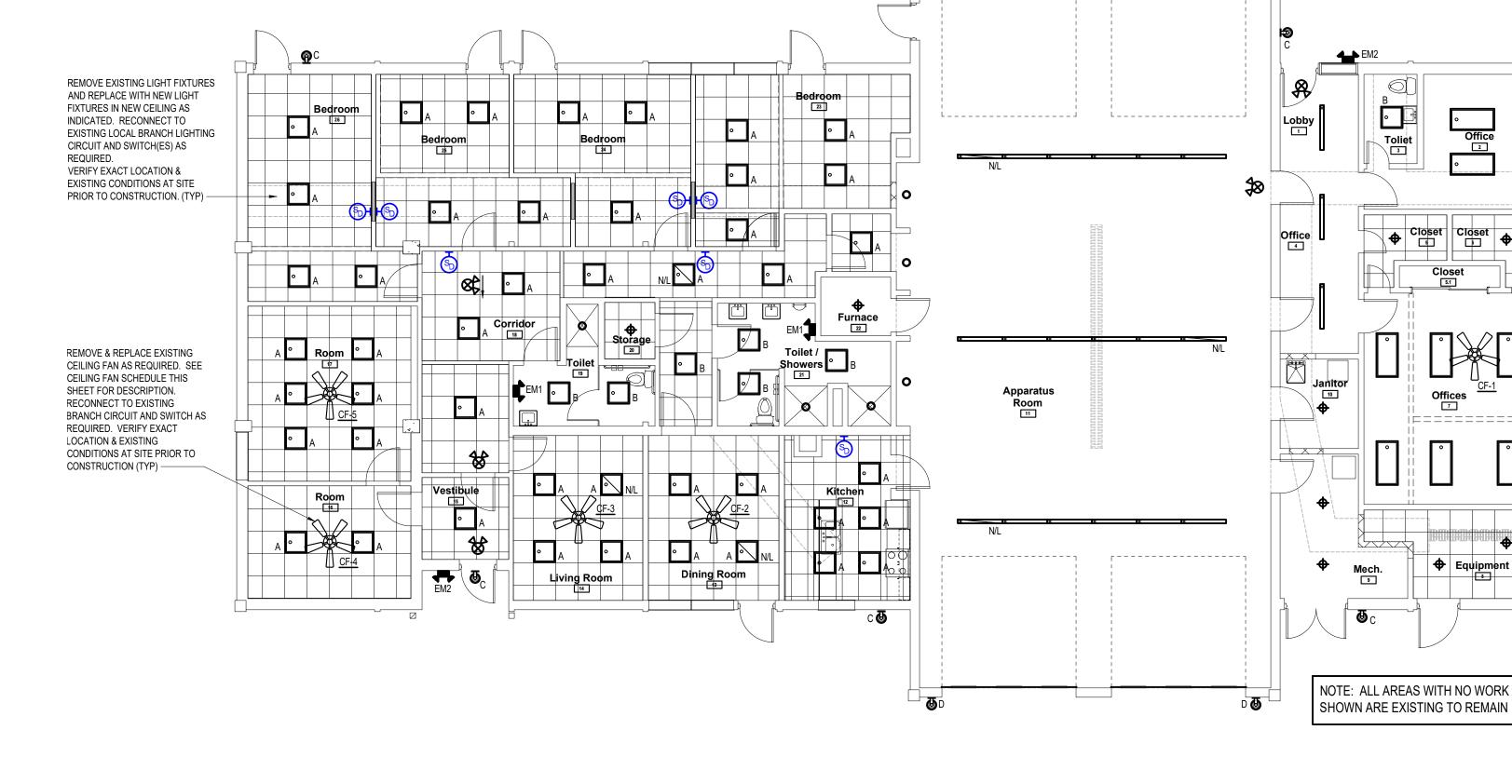
	LIGHTING DATA FOR N.C. ENERGY CODE						
AREA USE	SQ. FT.	WATTS PER SQ.FT. ALLOWED	TOTAL WATTS ALLOWED	TOTAL WATTS USED	TOTAL WATTS LEFT OVER		
FIRE DEPARTMENT	6,100	0.67	4,087	3,231	856		

GENERAL ELECTRICAL NOTES:

- 1. WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE (NEC) STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR. ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
- 2. ALL NEW BRANCH CIRCUITS SHALL BE E.M.T., RIGID CONDUIT OR MC CABLE AS PERMITTED OR REQUIRED. RIGID CONDUIT SHALL BE USED FOR CIRCUITS UNDER SLAB ON GRADE, OR WHERE APPROVED SCHEDULE 80 PVC MAY BE USED. EXPOSED CONDUIT SHALL BE PAINTED PER OWNER'S DIRECTION.
- 3. ALL CONDUCTORS SHALL BE COPPER.
- 4. PROVIDE GREEN GROUNDING CONDUCTOR CONTINUOUS FROM DEVICE TO PANEL GROUND BAR.
- 5. EMT FITTINGS SHALL BE HEXAGONAL ALL STEEL, COMPRESSION TYPE.
- 6. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
- 7. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION.

		LAMPS			Т.		
SYMBOL	MANUFACTURER	DESCRIPTION	NO.	WATTS	TYPE	MOUNTING	
• A	LITHONIA OR EQUAL	"CPX" 2X2 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V 4,000 LUMENS, 4,000K COLOR TEMP.	-	37	LED'S	LAY-IN	
A N/L	LITHONIA OR EQUAL	"CPX" 2X2 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V 4,000 LUMENS, 4,000K COLOR TEMP. N/L FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	37	LED'S	LAY-IN	
• B	LITHONIA OR EQUAL	"CPX" 2X2 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V 4,000 LUMENS, 4,000K COLOR TEMP.	-	37	LED'S	SURFACE	
0	LITHONIA OR EQUAL	"CPX" 2X4 LED LIGHTING PANEL WITH SATIN WHITE LENS. 120V 5,000 LUMENS, 4,000K COLOR TEMP.	-	40	LED'S	SURFACE	
0	HALO OR EQUAL	"PR6" 6" COMMERCIAL, DIMMABLE LED CAN LIGHT. IC RATED 1,500 LUMENS, 4,000K COLOR TEMP. 120V	-	14	LED'S	RECESSED	
0	LITHONIA OR EQUAL	"CLX" SERIES 4' LED STRIP WITH WIDE DIFFUSE CLEAR LENS. 120V 5,000 LUMENS, 5,000K COLOR TEMP.	-	32	LED'S	SURFACE	
N/L	LITHONIA OR EQUAL	"CLX" SERIES 4' LED STRIP WITH WIDE DIFFUSE CLEAR LENS. 120V 5,000 LUMENS, 5,000K COLOR TEMP. N/L FIXTURE - PROVIDE AND INSTALL WITH BATTERY BACKUP	-	32	LED'S	SURFACE	
\(\Phi \)	LITHONIA OR EQUAL	SURFACE MOUNTED LED LIGHT FOR MECHANICAL / CLOSET SPACE. 120V 3,500 LUMENS, 5,000K COLOR TEMP.	-	25	LED'S	SURFACE	
₩	LITHONIA OR EQUAL	LED EXIT/EMERGENCY COMBO LIGHT WITH BATTERY BACKUP. 120V DUAL REMOTE READY AT EXTERIOR DOORS	-	-	LED'S	CEILING/WAI	
EM1	LITHONIA OR EQUAL	EMERGENCY LIGHT WITH BATTERY BACKUP. 120V	-	-	LED'S	WALL	
EM2	LITHONIA OR EQUAL	REMOTE DUAL HEAD POWERED FROM EMERGENCY LIGHT BATTERY PACK WET/DAMP LOCATION. 120V	-	-	LED'S	WALL	
@ C	LITHONIA OR EQUAL	"TWX1" "LED" WALL PACK. 2,950 LUMENS, 5,000K COLOR TEMP. SUITABLE FOR WET/DAMP LOCATION. 120V	-	22	LED'S	WALL	
@ D	LITHONIA OR EQUAL	"TWX2" "LED" WALL PACK. 7,000 LUMENS, 5,000K COLOR TEMP. SUITABLE FOR WET/DAMP LOCATION. 120V	-	54	LED'S	WALL	

- NOTE (1) FIXTURES SHALL HAVE DISCONNECTING MEANS MEETING THE REQUIREMENTS OF
- NEC ARTICLE 410.130(G).
- NOTE (2) COORDINATE ALL FIXTURE REQUIREMENTS, COLOR TEMP, CRI (COLOR RENDERING INDEX) ETC. WITH OWNER PRIOR TO INSTALLATION. NOTE (3) - SHIFT LOCATIONS OF FIXTURES IN MECHANICAL AREAS IF/AS REQUIRED TO BEST LIGHT SPACES &
- AVOID CONFLICTS WITH DUCTS, PIPING, ETC.
- NOTE (4) PROVIDE CHANNEL SUPPORTS WITH HANGER RODS, ETC. WHERE NECESSARY TO SUSPEND FIXTURES BENEATH DUCTWORK, PIPING, ETC.



EXISTING "ALARM ACTIVATED" LIGHTING & DEVICE NOTE: ALL EXISTING "ALARM ACTIVATED" LIGHT FIXTURES, DEVICES, WIRING, ETC. TO REMAIN. DO NOT DISTURB

REMOVE AND REPLACE ALL EXISTING CEILING MOUNTED DEVICES IN AREAS WITH NEW LAY-IN CEILINGS AS REQUIRED. RECONNECT TO EXISTING BRANCH CIRCUITS AS REQUIRED. VERIFY EXACT LOCATION & EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION.

 $\frac{ \texttt{EXISTING CEILING MOUNTED REGISTER, GRILLE \& } { \texttt{DIFFUSER GENERAL NOTE:} }$ REMOVE, CLEAN & REPLACE EXISTING REGISTER, GRILLE & DIFFUSERS IN AREAS WITH NEW LAY-IN CEILING AS REQUIRED. VERIFY EXACT LOCATION & EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION.

EXISTING HVAC SYSTEMS, DUCTWORK, THERMOSTATS, ETC. ARE EXISTING TO REMAIN. CONTRACTOR SHALL SEAL ALL EXISTING DUCTWORK IN AREAS WITH NEW LAY-IN CEILINGS TO PROVIDE A CONTINUOUS VAPOR BARRIER AS REQUIRED.

LOCATIONS OF EXIT SIGNS NO SCALE

FLOW OF PEOPLE

- EXIT SIGN PERPENDICULAR & FACING DIRECTION OF TRAVEL

1. EXIT SIGN OR SIGNS ARE SHOWN AS "ON

2. EXIT SIGNS SHALL BE SINGLE OR DOUBLE-FACE

AS REQUIRED WITH CHEVRON DIRECTIONAL INDICATORS.

3. CONTRACTOR SHALL LOCATE EXIT SIGNS NEAR THE CEILING AND VERIFY A CLEAR LINE OF VISION.

(2 SIGNS REQUIRED)

EXIT SIGN FACING

DIRECTION OF TRAVEL

FLOW OF PEOPLE

EXIT SIGN PERPENDICULAR

TO DIRECTION OF TRAVEL

FLOW OF PEOPLE

FLOW OF PEOPLE



FIRE ALARM DEVICE NOTE:

EXISTING FIRE ALARM SYSTEM TO REMAIN. ALL FIRE ALARM DEVICES ON EXISTING CEILING SHALL BE REMOVED AND REINSTALLED IN SAME LOCATION ON NEW CEILING. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AT SITE PRIOR TO CONSTRUCTION

Q Equipment

GENERAL DEMO NOTE:

REMOVE ALL EXISTING UNUSED ELECTRICAL DEVICES, FIXTURES, BOXES, SWITCHES, WIRING, DISCONNECTS, CONDUIT, ETC. AS REQUIRED. DISPOSE OF ALL MATERIALS PROPERLY.





e Station Brd. NW B7893 to Fire Hills NC 2

ELECTRICAL MECHANICAL

J. Thompsor

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Sheet:

ME-1