Name of Project: LILLINGTON HWY 210 F	FIRE DEPARTMENT			Special Provisions: (Chap	oter 5):).3 □510 4	510	5 🗆
Address: _2873 NC 210 NORTH, Lillington, Proposed UseFire Department w/ Sleeping (, North Carolina	Zip C	Code <u>27546</u>	Mixed Occupancy:	☐ No tion (509 4 1)	Yes	Separa
Dwner/Authorized Agent: BOBBITT				■ Non-Separated Use (5	508.3)		
Phone # <u>919-851-1980</u>	E-Mail PERMITTING@BOBBITT.COM			Separated Use (508.4) - See below for the sum of th for each use	or area calc ne ratios of shall not e	the actu
Code Enforcement Jurisdiction:	City_Lillington	County Priv	State State	Actual Area of C	Decupancy A	+ \underline{A}	ctual A
				Allowable Area of -	Occupancy A	Allo	owable 4
EAD DESIGN PROFESSIONAL: <u>BOBE</u>	BITT A&E, PLLC					+ _	
DESIGNER FIRM	LESTER C. PARKER, AIA 12353		BOBBITT.COM	NO. USE	BLDG	AREA PER	TABL
Civil - STEWART ENGINEERING	ROY PAUL LORENZEN 15834	919-380-8750 RLORENZEN@	STEWARTINC.COM	1 R2 (WORST (CASE) 8	(ACTUAL) ,360	64
Fire Alarm - ALIGN ENGINEERING	RICHARD D. COPELAND JR. 36841	919-275-1935 RICK@AE-NC.(COM	S2			104
Plumbing - ALIGN ENGINEERING Acchanical - ALIGN ENGINEERING	R. EMMETT WILLIS 34327 NATHAN R. ROMBLAD 37491	919-275-1935 EMMETT@AE-1 919-275-1935 NATHAN@AE-1	NC.COM NC.COM				
prinkler_Standpipe - UNDER SEPERATE PER tructural - STEWART ENGINEERING	THOMAS WILLIAM MCLANE 46260	919-380-8750 TMCLANE@ST	EWARTINC.COM	1. Frontage area increas	es from Sectio	on 506.2 a	are comp
Retaining Walls >5' High				b. Total Building P c. Ratio (F/P) =	erimeter	=	<u>- (</u> I
("Other" should include firms and indiv	viduals such as truss, precast, pre-engi	neered, interior designers, et	ic.)	d. $W = Minimum v$ e. Percent of fronta	$\frac{1}{1}$ vidth of public ge increase I _f	way = 100[F/2]	- /P-0.25]
				 Unlimited area applic Maximum Building A 	able under con Area = total nu	nditions o mber of s	of Sectionstories in
2018 NC BUILDING CODF. New F	Building Addition	1 st Time Interior Completio	ons	4. The maximum area o of air traffic control to	f open parking owers must co	g garages i mply with	must co h Table
	Core* Phased Construction	*		5. Frontage increase is b	based on the ur	nsprinkler	red area
*Contact the local in	nspection jurisdiction for possible add	litional procedures and requi	rements.			ALLO	WABLI
check all that apply)	Repair Alteration Le	evel II Change of Use	e	Building Height in Feet (7	Table 504.3)	A	ALLOWAE
CONSTRUCTED: (date)	Chapter 14 Alteration Local CURRENT OCCUPANCY	evel III S) (Ch.3):		Building Height in Stories	(Table 504.4)		4
RENOVATED: (date) -	PROPOSED OCCUPANCY	(S) (Ch.3): -		¹ Provide code reference if the SI	nown on Plans' qu	uantity is no	ot based of
COULTAIL LATEGORY (1able	- 100-7.3 <i>j</i> 110				FIDE	PROTEC	TION I
BASIC BUILDING DATA				BUILDING ELEMENT	FIRE		RATING
	□ II-A □ III-A ■ II-B □ III-B				SEPARATION DISTANCE (FEET)	REQ'D	PROV (W/ REDUC
Sprinklers:□ No□ PartialYeStandpipes:■ No□ YesC	es ■ NFPA 13 □ NFPA 13R Class □ I □ II □ III □ W	□ NFPA 13D Vet □ Dry		Structural Frame,	()		
Primary Fire District: No Y	Ves Flood Hazard Area:	No Yes		trusses Bearing Walle	15' N/A	0	0
opeerar inspections required: 🔄 No	I CS (If special inspections are required, contact the	ne 10ca1 inspection jurisdiction for additional j	procedures and requirements.)	Exterior	-	-	-
	Gross Building Area Table			North East	-	-	-
LOOR EXISTING (SQ F	T) New (SQ FT)	S	UB-TOTAL	West South	-	-	-
rioor -	-		-	Interior Nonbearing Walls and	-	0	0
Aezzanine 0 st Floor 0	<u>706</u> 8,346		706 8,346	Partitions Exterior walls	-	0-	- 0
asement <u>-</u> TOTAL 0	 - 8.346 blda. area. 9 06 	66 fire area	9,066	North East	>30' >30'	0	0 C
~~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		und and a start of the start of		West South	>30'	0	0
rimary Occupancy Classification(s):	ALLOWABLE AREA			Interior walls and partitions	-	0	0
Assembly $\square A-1 \square A-2 \square A-3$ Business $\square$	A-4 A-5			Floor Construction Including supporting beams	3		-
Educational Factory F-1 Moderate F-21	Low			and joists Floor Ceiling Assembly		0	0
Hazardous H-1 Detonate H-2 Institutional I-1 Condition	Deflagrate H-3 Combust H-4 H	$\begin{array}{c c} \text{Health} \square \text{H-5 HPM} \\ 1 \square 2 \square 3 \square 4 \end{array}$	5	Columns Supporting Floors Roof Construction, including		-	-
I-2 Condition: 1 Mercantile	$\square 2 \qquad \square 1-3 \text{ condition:} \qquad \square 2$	· J 4		supporting beams and joists Roof Ceiling Assembly		0	0 C
Residential R-1 R-2 R-3 Storage S-1 Moderate	□ R-4 ■ S-2 Low □ High-piled			Columns Supporting Roof Shaft Enclosures Exit		0	0 -
Utility and Miscellaneous	pen Enclosed Repair Garage		Residential area classified	Shaft Enclosures Other		-	-
ccessory Occupancy Classification(s):			as a single dwelling unit	Corridor Separation Occupancy/Fire Barrier Separ	ation	-	-
Assembly $\square$ A-1 $\square$ A-2 $\square$ A-3 Business $\blacksquare$ 546 SF / 9,066 SF = 6	□ A-4 □ A-5 5.02%			Party/Fire Wall Separation Smoke Barrier Separation		-	-
Factory F-1 Moderate F-2 I	Low Deflagmate 🗆 🖽 2 Combust 🗔 II (1)	Jealth 🗔 LI 5 LIDN#		Smoke Partition		-	-
Institutional I-1 Condition: 1	$\square 2 \qquad \square I-3 \text{ Combust} \square H-4 \text{ F}$	$1  \square  2  \square  3  \square  4$	5	Sleeping Unit Separation Incidental Use Separation		1/2-HR -	1-F -
$\square I-2 \text{ Condition: } \square I$ Mercantile $\square$ Residential $\square P_{-1} \square P_{-2} \square P_{-2}$	$\square 2 \qquad \square 1-4$			*Indicate section number permi	tting reduction		
Storage S-1 Moderate	□ S-2 Low □ High-piled pen □ Enclosed □ Repair Garage						
Utility and Miscellaneous				EIDE CED 4D 17703	PERCENT	AGE OF	WALL
Furnace room where any pie	ece of equipment is over 400,000 Btu	per hour input		FIRE SEPARATION DISTANC (FEET) FROM PROPERTY LIN	E DEGR ES P	ROTECTION	N 8)
Rooms with boilers where the Refrigerant machinery room	he largest piece of equipment is over 1	5 psi and 10 horsepower		10 FT+		UP, S	
Hydrogen fuel gas rooms, no Incinerator rooms	ot classified as Group H			30 FT+		UP, S	
☐ Paint shops, not classified as ☐ In Group E occupancies, lab	s Group H, located in occupancies otheoratories and vocational shops not cla	er than Group F ssified as Group H			I	-	
☐ In Group I-2 occupancies, la ☐ In ambulatory care facilities,	aboratories not classified as Group H , laboratories not classified as Group I	Н					
<ul> <li>Laundry rooms over 100 squ</li> <li>In Group I-2, laundry rooms</li> </ul>	uare feet s over 100 square feet			December 7 1 1	LIFE	SAFETY	Y SYSTI
In Group I-2, laundries equa In Group I-2, commercial kit	l to or less than 100 square feet			Emergency Lighting: Exit Signs:		b Yes	s s
In Group I-2, commercial King Group I-2, rooms or space	es that contain fuel-fired heating equip -2 patient rooms equipped with padded	oment d surfaces		Fire Alarm: Smoke Detection System	ns: No	o Yes	s (notifi s 🔳 Pa
Group I-2, physical plant ma	aintenance shops or Group I-2 occupancies. waste and	linen collection rooms with		Panic Hardware: Carbon Monoxide Detec	tion: No	b 🔛 Yes	s s @ resi
containers that have an aggre	egate volume of 10 cu.ft. or greater re facilities and Group I-2 occupancies	s, waste and linen collection			LIEE	SAFETV	<b>ΡΙ ΑΝ</b> Τ
		oms greater than 100 square	feet	Life Safety Plan Sheet #:	LIFE S	SAFETY	rlan
rooms over 100 square feet	or Groun I-2 occurancies storage re-	Since Breater man 100 square	for flooded lead-acid	■ Fire and/or smoke rate	ed wall locatio	ns (Chapt	ter 7)
rooms over 100 square feet In ambulatory care facilities Stationary storage battery sy nickel cadmium or VPLA	or Group I-2 occupancies, storage roo stems having a liquid electrolyte capa or more than 1 000 pounds for lithium	icity of more than 50 gallons	ner used for facility				
rooms over 100 square feet In ambulatory care facilities Stationary storage battery sy nickel cadmium or VRLA, o standby power, emergency p Fuel Storage rooms in subli-	or Group I-2 occupancies, storage roo ystems having a liquid electrolyte capa or more than 1,000 pounds for lithium power or uninterupted power supplies a schools and boiler rooms in rublic	icity of more than 50 gallons -ion and lithium metal polyn	ner used for facility	<ul> <li>Assumed and real program</li> <li>Exterior wall opening</li> </ul>	perty line loca area with resp	tions (if n	not on the
rooms over 100 square feet In ambulatory care facilities Stationary storage battery sy nickel cadmium or VRLA, o standby power, emergency p Fuel Storage rooms in public Storage rooms underneath gr	or Group I-2 occupancies, storage roo ystems having a liquid electrolyte capa or more than 1,000 pounds for lithium- power or uninterupted power supplies c schools and boiler rooms in public su randstands or bleacher seats containin	icity of more than 50 gallons -ion and lithium metal polyn chools g combustable or flammable	e materials	<ul> <li>Assumed and real pro</li> <li>Exterior wall opening</li> <li>Occupancy Use for ea</li> </ul>	perty line loca area with resp ch area as it re	tions (if n bect to dist clates to o	not on the stance to occupant
rooms over 100 square feet In ambulatory care facilities Stationary storage battery sy nickel cadmium or VRLA, o standby power, emergency p Fuel Storage rooms in public Storage rooms underneath gr pecial Uses (Chapter 4 - List Code Sec 402 403 404 405	or Group I-2 occupancies, storage roo ystems having a liquid electrolyte capa or more than 1,000 pounds for lithium power or uninterupted power supplies c schools and boiler rooms in public so randstands or bleacher seats containin etions): 406 407 408 409 410 4	icity of more than 50 gallons -ion and lithium metal polyn chools g combustable or flammable 11 412 413 414 4	the materials $15 \square416 \square417$	<ul> <li>Assumed and real properties</li> <li>Exterior wall opening</li> <li>Occupancy Use for each</li> <li>Occupant loads for each</li> <li>Exit access travel distance</li> </ul>	perty line loca area with resp ch area as it re ch area ances (1017)	tions (if n bect to dist elates to o	not on th stance to occupant
rooms over 100 square feet In ambulatory care facilities Stationary storage battery sy nickel cadmium or VRLA, o standby power, emergency p Fuel Storage rooms in public Storage rooms underneath gr Special Uses (Chapter 4 - List Code Sec 402 403 404 405 418 419 420 421	or Group I-2 occupancies, storage roo ystems having a liquid electrolyte capa or more than 1,000 pounds for lithium power or uninterupted power supplies c schools and boiler rooms in public se randstands or bleacher seats containin ctions): 406 407 408 409 410 4 422 423 424 425 426 4	icity of more than 50 gallons -ion and lithium metal polyn chools g combustable or flammable 11 412 413 414 4 27 428 429 430 4	e materials $15 \square 416 \square 417$ $430 \square 430 \square 430$	<ul> <li>Assumed and real prod</li> <li>Exterior wall opening</li> <li>Occupancy Use for ea</li> <li>Occupant loads for ead</li> <li>Exit access travel distances</li> <li>Common path of travel</li> </ul>	perty line loca area with resp ch area as it re ch area ances (1017) el distances (Ta	tions (if n bect to disc clates to o ables 100	not on tl stance to occupan 96.2.1 &

# **N HWY 210 FIRE DEPARTMENT**

510.6 510.7 510.8 510.9 ration: 0 Hr. Exception: non-separated

s for each story, the area of the occupancy shall be such that ual floor area of each use divided by the allowable floor area

## $\frac{Area of Occupancy B}{e Area of Occupancy B} \leq 1$

-	+	=_ <b>-</b> <u>≤</u> 1.00
-		
(B)	(C)	(D)
LE506.2 ⁴	AREA FOR FRONTAGE	ALLOWABLE AREA PER
REA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
4,000	(NOT USED)	64,000
4,000		

puted thus: bace having 20 feet minimum width = ____(F)

 $\frac{W}{5] \times W/30} = - (\%)$ on 507.

in the building x D (maximum 3 stories) (506.2). omply with Table 406.5.4. The maximum area e 412.3.1 value in Table 506.2.

E HEIGH	Т	
BLE	SHOWN ON PLANS	CODE REFERENCE
-	22 FT	-
	1	-
on Table 504	l.3 or 504.4.	

REQUI	REMENTS	5		
OVIDED * CTION)	DETAIL# AND SHEET#	DESIGN# FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION	SHEET# FOR RATED JOINTS
0	_	_	_	_
-	-	_	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	-	-	-	-
0	-	-	-	-
-	-	-	-	-
0	-	-	-	-
0	-	-	-	-
0	-	-	-	-
0	-	-	-	-
0	-	-	-	-
0				
0	-	-	-	-
0	-	-	-	-
-	-	-	-	-
0	-	-	-	-
0	-	-	-	-
0	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
HR	U419& U905/T1.3	U419 & U905	SEE PME	SEE

### OPENING CALCULATIONS ALLOWABLE AREA ACTUAL SHOWN ON PLANS - 3/4" IGU @ DOORS: = U-0.40 (%) (%) 45% <10% UNLIMITED NO LIMIT --

. . . . .

EM REQUIREMENTS

fication only) artial @ residential

idential

REQUIREMENTS

the site plan)

b assumed property lines (705.8) t load calculation (Table 1004.1.2)

: 1006.3.2(1))

Clear exit widths for each exit door

(1005.3)

Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

- Location of doors with panic hardware (1010.1.10)
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
- Location of doors with electromagnetic egress locks (1010.1.10)
- Location of doors equipped with hold-open devices Location of emergency escape windows (1030)
- The square footage of each fire area (202)

The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above

			ACCESSIBLI (SEC	E DWELLIN CTION 1107)	G UNITS		
Total Units	Accessible Units REQUIRED	Accessible Units Provided	TYPE A Units REQUIRED	TYPE A Units Provided	TYPEB Units Required	TYPEB Units Provided	TOTAL ACCESSIBLE UNITS PROVIDED
1	1	1	1	1	0	0	1

ACCESSIBLE PARKING

OT OR PARKING	TOTAL# OF PA	ARKING SPACES	# OF AC	CESSIBLE SPACES P	ROVIDED	TOTAL #
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPAC	CES WITH	ACCESSIBLE
			5' ACCESS AISLE	132"ACCESS AISLE	8' ACCESS AISLE	PROVIDED
Entire Lot	13	13	1	-	1	2
OTAL	- (s	ee Totals abov	e) -	-	-	-

### PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

WAT	ERCLOS	ETS	URINALS	L/	AVATORI	ES	SHOWERS	DRINKING F	OUNTAINS	Service
MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	Regular	Accessible	Sink
		1				1	2	0.1	0.1	0
		1				1	0	0.06	0.06	0
		0.2				0.2	0	0.02	0.02	0
0	0	3	0	0	0	3	2	1	1	0
0	0	4	1	0	0	4	3	1	1	2
NOTE d toilet	S: room re	quireme	ent NCSE	3C 1109	.2.1]					
	WAT MALE 0 0 NOTE d toilet	WATERCLOS	WATERCLOSETS MALE FEMALE UNISEX 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WALE RCLOSETSURINALSMALEFEMALEUNISEXMALEFEMALEUNISEXIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII <tr< td=""><td>WATERCLOSEURINALSL/MALEFEMALEUNISEXMALEMALE111MALE111MALE0.20.21MALE0.20.21MALE0.300MALE10MALE10MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MA</td><td>WATERCLOSETS       URINALS       Laterclosets         MALE       FEMALE       UNISEX       MALE       FEMALE         MALE       FEMALE       1       MALE       FEMALE         Image: Image:</td><td>WATER MALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALE1111Image: Strain of the strain of</td><td>WATERWEINALSLaterHOWERS (TUBS)MALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXImage: Constraint of the second second</td><td>WALE         FEMALE         UNISEX         PRINALS         MALE         FEMALE         UNISEX         PRINKING F           MALE         FEMALE         UNISEX         MALE         FEMALE         UNISEX         Regular           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         1         2         0.1           MALE         1         1         1         1         1         1         0         0.06           MALE         1         1         1         1         0         0.2         0.02         0.02         0.02         0.02         1         0         0.02         1         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>WALE       FENALE       VNISEX       VRINALS       MALE       FEMALE       VNISEX       Regular       Accessible         MALE       FEMALE       UNISEX       1       2       0.1       0.1         Image: Angle of the second sec</td></tr<>	WATERCLOSEURINALSL/MALEFEMALEUNISEXMALEMALE111MALE111MALE0.20.21MALE0.20.21MALE0.300MALE10MALE10MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MALE11MA	WATERCLOSETS       URINALS       Laterclosets         MALE       FEMALE       UNISEX       MALE       FEMALE         MALE       FEMALE       1       MALE       FEMALE         Image:	WATER MALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALE1111Image: Strain of the strain of	WATERWEINALSLaterHOWERS (TUBS)MALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXMALEFEMALEUNISEXImage: Constraint of the second	WALE         FEMALE         UNISEX         PRINALS         MALE         FEMALE         UNISEX         PRINKING F           MALE         FEMALE         UNISEX         MALE         FEMALE         UNISEX         Regular           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         2         0.1           MALE         1         1         1         1         1         2         0.1           MALE         1         1         1         1         1         1         0         0.06           MALE         1         1         1         1         0         0.2         0.02         0.02         0.02         0.02         1         0         0.02         1         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	WALE       FENALE       VNISEX       VRINALS       MALE       FEMALE       VNISEX       Regular       Accessible         MALE       FEMALE       UNISEX       1       2       0.1       0.1         Image: Angle of the second sec

### SPECIAL APPROVALS

**Special approval:** (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

- REFER TO S0.4 FOR STRUCTURAL SPECIAL INSPECTIONS. REFER TO S0.1 AND MEP 1.1 FOR SEISMIC

### INFORMATION AND REQIREMENTS.

### CODE REVIEW NOTES

- Kitchen is for Residential fire station staff use only. Not designed to serve the Public.

### ENERGY SUMMARY

**ENERGY REQUIREMENTS:** The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

**Existing building envelope complies with code:** N/A YES Exempt Building: NO YES (Provide code or statutory reference): 2018 NC-ECC C101.2 exception 2.

Climate Zone: 3A 4A 5A

DESIGN U-VALUES: (SEE EXTERIOR FINISH FORM FOR COLORS AND ADDITIONAL INFORMATION)

PEMB: - Roof: Thermal Blocks w/ R-30 (WMP-VR R-19 + WMP-VR R-11)

EXTERIOR STUD WALLS: R-19 (5 1/2" FIBERGLASS UNFACED)

OPENINGS

GLASS @ STOREFRONT & HM DOOR [VITRO Solarban R67 (2) + Clear = basis of design]: - 1" IGU @ WINDOWS = U-0.28

PL

[ch

HM EXTERIOR DOORS: R-2.5 Polyurethane core

OHD's (see Exterior Finish Form)

<u>∕1</u>∖



~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
HEET I	NDEX
1.1 1.2 1.3	TITLE SHEET LIFE SAFETY PLAN UL DETAILS
0.00 0.10 1.00 1.01 2.00 3.00 3.90 3.91 3.92 4.00 4.01 4.02 5.00 5.40 5.50 6.00 6.90 6.91 7.00 7.90	COVER SHEET GENERAL NOTES EXISTING CONDITIONS EXISTING CONDITIONS DEMOLITION PLAN SITE PLAN PAVING PATTERNS PLAN SITE DETAILS I SITE DETAILS II EROSION CONTROL NOTE EROSION CONTROL PLAN EROSION CONTROL PLAN GRADING AND STORM DRA DRAINAGE MAP IMPERVIOUS MAP (PRE AN UTILITY PLAN UTILITY DETAILS I UTILITY DETAILS I CODE PLANTING PLAN PLANTING & SOIL DETAILS
1.1 2.1 3.1 4.1 5.2 5.3	FLOOR PLAN ENLARGED PLANS REFLECTED CEILING PLAN ELEVATIONS EXTERIOR WALL SECTION DETAILS
AE	BREVIATI
@ AB ACT ADA AJJ AFF AHU AHJ ALUM ANOD ANSI	AT ANCHOR BOLT ACOUSTICAL CEILING TILI AMERICAN DISABILITIES A ADJUSTABLE ABOVE FINISH FLOOR AIR HANDLING UNIT AUTHORITY HAVING JURISDICTION ALUMINUM ANODIZED AMERICAN NATIONAL STANDARDS INSTITUTE
BFF BL BLDG BOT	BELOW FINISH FLOOR BUILDING LINE BUILDING BOTTOM
CSCI CJ CL	CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED CONTROL JOINT CENTERLINE

I IC RR	CLOSET CLEAR CONCRETE MASONRY UN CLEAN OUT COLUMN CONCRETE CORRIDOR COUNTERSUNK CONSTRUCTION JOINT CURTAINWALL
T	DETAIL DEPARTMENT DIAMETER DISPENSER DOWN DOOR DOWNSPOUT DRAWING
R	EACH WAY ELECTRICAL CONTRACT ELEC ENGINEER OF REC EMERGENCY EYE WASH SHOWER



<image/> <image/> <complex-block><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><text></text></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text></complex-block>
ASTM C1396), applied parallel to the studs on the room side with min. 1in. long Type S drywall screws 12 in. oc. Gypsum board joints are finished with paper tape and joint compound (complying with ASTM C475). Exposed screw heads are finished with joint compound (complying with ASTM C475). Board must be by same manufacturer. Component bearing the Warnock Hersey Certificat Mark, manufacturing information of these compone is proprietary to the listed component's manufacture

Inertek# CD/WA 60-01





A&F CERT. NO. 52593 12353 2 Ш No No BOBBITT A&E. PLL 2400 Weston Parkway Cary, North Carolina 27513 **O Q**₩ [►] **O**õ のぼ 50 COORDINATOR: JGF RŘ DRAWN BY: JGF CHK BY: SA Z 0 Ŭ \mathbf{c} Ο Ζ Ζ O _ F

APPROVAL:

DATE



UL# U419



VICINITY MAP SCALE: 1" = 300'

CLIENT





BOBBITT 600 GERMANTOWN ROAD RALEIGH, NC 27607 CONTACT: NEAL CONLEY 919.800.4632 (T) STEWART INC. - CIVIL CONTACT: ROY P. LORENZEN, PE CIVIL ENGINEER 919.866.4813 (T) 919.380.8752 (F) RLORENZEN@STEWARTINC.COM



TDUNCAN@STEWARTINC.COM

STEWART INC. - GEOMATICS CONTACT: FRANK G. MUNDY, II, PLS DIRECTOR OF GEOMATICS 919.866.4806 (T) 919.380.8752 (F) FMUNDY@STEWARTINC.COM



9 5400 Old Poole Road Raleigh, NC 27610 www.southernengineeringpc.com

SOUTHERN ENGINEERING CONTACT: DON BROWN, PE 919.321.9407 (T) WWW.SOUTHERNENGINEERINGPC.COM

GEOTECHNICAL

Sheet Name
COVER SHEET
GENERAL NOTES
EXISTING CONDITIONS SURVEY
EXISTING CONDITIONS (POST TOWNHOME DEVELOPMENT)
DEMOLITION PLAN
SITE PLAN
PAVING PATTERNS PLAN
SITE DETAILS I
SITE DETAILS II
SITE DETAILS III
EROSION CONTROL NOTES
EROSION CONTROL PLAN PHASE 1
EROSION CONTROL PLAN PHASE 2
GRADING AND STORM DRAINAGE PLAN
DRAINAGE MAP
IMPERVIOUS MAP (PRE AND POST)
UTILITY PLAN
UTILITY DETAILS I
UTILITY DETAILS II
CODE PLANTING PLAN
PLANTING & SOILS DETAILS
SITE PLAN - PHOTOMETRICS

Sheet List Table



GENERAL NOTES:	SITE NOTES:	UTILITY NOTES:	PAVING PATTERN NOTES:
 ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES. ALL UTILITY CONSTRUCTION SHALL COMPLY WITH APPLICABLE LOCAL JURISDICTIONAL STANDARDS AND SPECIFICATIONS. EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY STEWART, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY MODIFY THE OWNERS'S 	 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE / LANDSCAPE PLAN SHEETS 	 UNLESS OTHERWISE NOTED, ALL MANHOLES SHALL BE PRE-CAST CONCRETE STRUCTURES. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF UNDERGROUND UTILITIES (WATER, SEWER, STORM, ELECTRICAL, GAS, OR OTHER) FOR THIS PROJECT WITH THE BUILDING PLANS. THE UTILITY CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE INSTALLATION OF ALL UTILITY SERVICES TO WITHIN FIVE (5) FEET OF THE BUILDING CONNECTION POINT. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS. 	 END ALL UNIT PAVING PATTERNS WITH A FULL OR HALF OVERSIZE PAVERS WHERE PATTERN ENDS ON A UNIT S LAYOUT OF UNIT PAVING PATTERNS AND CONCRETE JO LAYOUT PLANS FOR FURTHER PAVING LAYOUT INFORM PAVERS ABUTTING TRUNCATED DOMES SHALL BE A CO
 REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED 	OR THE CONTRACTOR SHALL REFERENCE THE ARCHITECTURAL PLANS FOR DIMENSIONS, JOINTS AND INLAY SPECIFICATIONS NEAR THE BUILDING AND COURTYARD. THE CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS EVERY TEN (10) FEET MAXIMUM, OR AS INDICATED ON ARCHITECTURAL PLANS SHEETS. 3. ALL CONSTRUCTION TRAFFIC SHALL ENTER SITE FROM UNLESS OTHERWISE APPROVED IN WRITING FROM THE OWNER'S REPRESENTATIVE FOR AN ALTERNATE POINT OF ACCESS	 A. THE CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON SITE AND UTILITY PROVIDERS DURING CONSTRUCTION TO ENSURE SMOOTH TRANSITION BETWEEN DISCIPLINES. 4. THE CONTRACTOR SHALL COORDINATE ALL PEDESTRIAN AND VEHICULAR INTERRUPTIONS WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO BEGINNING WORK. 5. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK INSIDE THE PUBLIC RIGHT OF WAY PRIOR TO RECEIPT AND COMPLIANCE WITH ALL APPLICABLE NCDOT PERMITS. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY FLAGGERS AND TRAFFIC CONTROL DURING ALL WORK INSIDE THE PUBLIC RIGHTS OF WAY 	 ALIGN ALL TRUNCATED DOME PAVER JOINTS WITH ABU PROVIDE CONTINUOUS EXPANSION JOINTS BETWEEN E PROVIDE CONTINUOUS EXPANSION JOINT BETWEEN AL ALL DIMENSIONS MEASURED TO CENTERLINE OF JOINT
 ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. 	 REFER TO ARCHITECTURAL PLANS FOR BUILDING INFORMATION. ALL DIMENSIONS ARE IN DECIMAL FEET TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED. 	 6. THE CONTRACTOR SHALL NOT RE-USE ANY FIRE HYDRANT REMOVED AS PART OF THIS PROJECT. ANY FIRE HYDRANT SHOWN TO BE REMOVED OR RELOCATED SHALL BE REPLACED WITH A NEW FIRE HYDRANT MEETING THE LOCAL JURISDICTIONAL REQUIREMENTS AND STANDARDS. 	 ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SC ALL ANGLES 90 DEGREES UNLESS OTHERWISE NOTED.
 5. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, 	 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO ANY CONSTRUCTION. ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS. 	7. ALL EXISTING SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. DEPTHS OF EXISTING UTILITIES SHOWN IN PROFILE VIEWS ARE BASED ON STANDARD ASSUMPTIONS. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE AND MATERIAL OF ANY AND ALL SUB-SURFACE	 ALIGN ALL JOINTS, CORNERS AND EDGES AS SHOWN. FINAL LAYOUTS TO BE APPROVED BY LANDSCAPE ARCH
CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT. 7. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.	 ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED. ALI GN ALL JOINTS, CORNERS, AND EDGES AS SHOWN 	 CONDITIONS REFERENCED IN THESE PLANS PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES OR CONFLICTS. 8. ELEVATIONS OF UTILITIES ARE GIVEN TO THE EXTENT OF INFORMATION AVAILABLE, WHERE ELEVATIONS ARE NOT GIVEN AT POINTS OF EXISTING UTILITY CROSSINGS. SUCH ELEVATIONS SHALL BE DETERMINED 	SIGNAGE, STRIPING AND MARKING NOTE
 IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. 	 ALIGNALE CONTROL CONTROL CONTROL EDGED AC CHOWN 11. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION. 12. ALL CURB TAPERS ARE SIX (6') FEET LONG UNLESS OTHERWISE SHOWN ON PLAN. 	 BY THE CONTRACTOR AND REPORTED TO THE ENGINEER, WHEN UNKNOWN LINES ARE EXPOSED, THEIR LOCATIONS AND ELEVATIONS SHALL ALSO BE REPORTED TO THE ENGINEER. 9. UNDERGROUND UTILITIES SHOWN ON THIS PLAN SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OF PARKING AREA, DRIVES, CURB AND GUTTER OR CONCRETE WALKS / PADS. IF UTILITIES SHOWN ON THIS 	 ALL INTERNAL SIGNAGE SHALL BE COORDINATED WITH INSTALLATION. SIGNAGE LEADING ONTO PUBLIC THOR PER DOT STANDARDS ALL PAVEMENT STRIPING (EXCEPT INDIVIDUAL PARKING REFLECTIVE PAINT MATERIALS AND DIMENSIONS SHALL
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE 	 13. WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. TIE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT; MATCH WIDTH OF EXISTING WALKWAY. 14. WHERE SIDEWALK OR WALKWAYS ARE ADJACENT TO PARKING SPACES THE WALKWAY SHALL BE A MINIMUM 	 PLAN CANNOT BE INSTALLED PRIOR TO INSTALLATION OF IMPERVIOUS (ASPHALT / CONCRETE) CONDUIT SHALL BE INSTALLED FOR THE "FUTURE" UTILITY INSTALLATION. 10. AS-BUILT DOCUMENTATION REQUIREMENTS: PRIOR TO APPROVAL FROM LOCAL JURISDICTION OR ENGINEER THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS (IN BOTH PAPER AND ELECTRONIC FORMAT (CAD / PDF) PREPARED AND SEALED BY A PROFESSIONAL LAND SURVEYOR SHOWING ALL 	3. CROSSWALKS SHALL BE CONSTRUCTED OF THERMOPL ACCORDANCE WITH STATE DOT SPECIFICATIONS. CON MANNER THAT CROSSWALKS ARE ALIGNED BETWEEN
 MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS. 11. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. 	 6.5' WIDE AS MEASURED FROM THE FACE OF CURB. 15. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48. HANDICAP SPACES SURFACE SLOPES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. 	UTILITY INSTALLATIÓN. HORIZONTAL AND VERTICAL INFORMATION SHALL BE PROVIDED FOR WATER, SEWER, STORM INCLUDING ALL STRUCTURES, VALVES, HYDRANTS, AND OTHER APPURTENANCES.	 PERPENDICULAR TO THE ROADWAY / DRIVE LANE. 4. ADA SYMBOLS SHOWN THESE DRAWINGS ARE FOR LOG PAINTED. CONTRACTOR RESPONSIBLE FOR INSTALLIN
12. ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.	 SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES. THE SITE SHALL BE FULLY STABILIZED (90% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL 		
EXISTING CONDITION NOTES:	18. HANDICAP RAMPS SHALL BE INSTALLED PER LATEST EDITION OF THE NC BUILDING CODE AND ANSI 117.11 WITH DETECTABLE WARNING DOMES WITH A COLOR CONTRAST OF 70% MINIMUM. SEE DETAILS AND GRADING SPOT ELEVATIONS, IF THE EXISTING CONDITIONS PRECLUDE THE ABILITY TO PROVIDE A MAXIMUM	PROPOSED UTILITY SEPARATION:	LANDSCAPE NOTES:
 THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY AND ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN. HORIZONTAL DATUM IS NAD 83-2011 AND VERTICAL DATUM IS NAVD88. 	SLOPE 1/12 FOR 6-FEET OR A MAXIMUM CROSS SLOPE OF 1:48 AND A 36" MINIMUM LANDING, THE CONTRACTOR SHALL NOTIFY ENGINEER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION.	 WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10-FOOT HORIZONTAL SEPARATION IN WHICH CASE; a. THE WATER MAIN IS LAID IN A SEPARATE TRENCH, WITH THE ELEVATION OF THE BOTTOM OF THE 	 VERIFY ALL QUANTITIES AND REPORT ANY DISCREPAN OWNER'S REPRESENTATIVE PRIOR TO PLANTING. LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, MATERIALS WITHIN THE PROJECT AREA.
 THIS DRAWING DOES NOT CONFORM TO N.C. GS47-30 AND THEREFORE IS NOT FOR RECORDATION. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. EXISTING CONDITIONS SURVEY INFORMATION BASED ON <u>SURVEY BY STEWART INC ON 02/01/2024</u>. 	19. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE ASPHALT AND CONTRACTOR	 WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER; OR b. THE WATER MAIN IS LAID IN THE SAME TRENCH AS THE SEWER WITH THE WATER MAIN LOCATED AT ONE SIDE OF A BENCH OF UNDISTURBED EARTH, AND WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP TO THE SEWER. 	3. THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN TH UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOF LANDSCAPE OPERATION SHALL BE CORRECTED BY TH OWNER.
 TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY. THE SUBJECT PROPERTY LIES IN <u>ZONES X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN).</u> BASED ON THE FLOOD INSURANCE RATE MAP 	CERTIFICATION MEMO TO NCDOT FOR ALL ROADWAY IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY.	2. CROSSING A WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION, IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERDOLS MATERIALS AND WITH JOINTS THAT ARE FOUNDALENT TO	 LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE ALL TREES TO BE A MINIMUM OF 2" IN CALIPER AND MI STOCK.
COMMUNITY MAP NUMBER 3720066000J DATED OCTOBER 3, 2006 FRIS.NC.GOV.		Sever Shall be constructed of Ferrous materials and with joints that are equivalent to	
8. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN.		 Sewer shall be constructed of ferrous materials and with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. 	 TREE PROTECTION NOTE: TREE PROTECTION FENCING DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR
8. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN.	GRADING AND STORM DRAINAGE NOTES:	 SEWER SHALL BE CONSTRUCTED OF PERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEDARATION OF SANITARY SEWERS AND STORM SEWERS: 	 TREE PROTECTION NOTE: TREE PROTECTION FENCING DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SHI
COMMONITY MAP NOMBER <u>37200660000 DATED OCTOBER 3, 2006 FRIS.NC.GOV</u> . NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: 1. THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE.	GRADING AND STORM DRAINAGE NOTES: 1. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS.	 3. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. 4. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: a. A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY 	 TREE PROTECTION NOTE: TREE PROTECTION FENCING DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH/ AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE DOLINDARY OF THE DROTECT
 8. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. 8. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: 1. THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. 2. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. 3. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. 	GRADING AND STORM DRAINAGE NOTES: 1. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. 2. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP.	 Sewer Shall be constructed of perrous materials and with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. 	 TREE PROTECTION NOTE: TREE PROTECTION FENCIN DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAF EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH. AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT 8. ROOT ZONE PROTECTION AREA: VARIES BASED ON LO CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS.
COMMUNITY MAP NUMBER <u>37200660000 DATED OCTOBER 3, 2006 FRIS.NC.GOV</u> . NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES.	GRADING AND STORM DRAINAGE NOTES: 1. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. 2. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30" BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. 3. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE	 Sever Shall be constructed of periods in renals and with solints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. 	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH/ AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT 8. ROOT ZONE PROTECTION AREA: VARIES BASED ON LC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH I SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL." 	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP AMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL OPROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE 	 Sever Shall be constructed of PERKOSS MATERIAS AND WITH JOINT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION 	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH/ AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT 8. ROOT ZONE PROTECTION AREA: VARIES BASED ON LC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED. TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN.5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE.
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". CLEAN SOLLS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED. 	 GRADING AND STORM DRAINAGE NOTES: 1. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. 2. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 11/2 SLOPES WITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL BA A MANIMUM OF 11/2 SLOPES WITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. 3. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DESRIS. PROTO OWNER A CCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12" AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE DRAINAGE VISUAL OBSERVATION. 5. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION. 6. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE ONSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE), THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. 8. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION 	 Sewer Shall be considered of a Distance of 10 FEET on EACH side of THE POINT OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES AROUTED. JOTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES AROUTED ALL SANITARY SEWER SERVICE:	 TREE PROTECTION NOTE: TREE PROTECTION FENCING DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH/ AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC ROOT ZONE PROTECTION AREA: VARIES BASED ON LC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH I SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN.5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIST VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INO BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL. ADDITIONAL SOIL TO RE APPROVED BY LANDSCO
 COMMUNITY MAP NOMBER 3720060000 DATED OUTDER 3, 2006 FRISTRUGUY. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY "NORTH CAROLINA ONE CALL" (TELEPHONE 1-800-832-9494) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL" CLEAN SOILS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOILS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS. 	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL SLOPE SWITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5 LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM. THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12° AND LARGER. THE VISUAL OBSERVATION WIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12° AND LARGER. THE VISUAL OBSERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION INTERIM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND WASHOUT. 	 Setter Mail Standards For A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSSING. MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24* VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN OTHER AREAS (I.E. GRASS OR WOODED AREAS) SHALL HAVE THEIR RIMS RAISED SIX INCHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATER TIGHT, BOLTED LIDS. MINIMUM REQUIRED SLOPES FOR SEWER SERVICES: 4* SEWER SERVICE - 1.00% SLOPE 5* SEWER SERVICE - 2.00% SLOPE 5* SEWER SERVICE - 1.00% SLOPE UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS STALL HAVE THEIR INFILTRATION SHALL BE TO FEET. 	 TREE PROTECTION NOTE: TREE PROTECTION FENCINE DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH. AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT (CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAIMAGE O SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCA INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E A FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE INCHES.
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEAN DUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RAISED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTHY 'NORTH CARCING AND CALL' (TELEPHONE 1-800-632-4949) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEDENTS. CLEAN SOLS SHALL BE UTILIZED FOR BACKFILL. COMPACTION OF THESE SOLS SHALL BE PERFORMED IN ACCORDANCE WITH HE CONSTRUCTION DOCUMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 4.2% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL BE A MAXIMUM OF 1/12 SLOPES WITH A MAXIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOWN ARE EQGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEPTINCE OF SYSTEM. THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL DOSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION WIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION WIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION WIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION WIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVERED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION PRIOR TO THE ISSUANCE OF THE BUILDING AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATER	 Sever Notes in the answer of the formation o	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH, AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT OCONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED. TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BI PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD B BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABILIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAH
COMMUNITY MAP NUMBER 3/20060000 DATED OLTOBER 3, 2006 FRENKLGOV. Reveal of the service	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGININING CONSTRUCTION OPERATIONS. THE MAXIMUM SIOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 2.0% CROSS SLOPE. HANDICAP RAMPS INDICATED ON PLANS SHALL B& MAXIMUM OF 112 SLOPES WITH A MAXIMUM RISOPE OF 30° ETHEME LANDINGS. NON-CURR CUT RAMPS SHALL HAVE HANDRALS AND GUARDS PER DETAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM. THE CONTRACTOR SHALL COORDINATE AND PROVIDE A VISUAL OBSERVATION NUECO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION NUECO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION NUECO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION NUECO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LARGER. THE VISUAL OBSERVATION SHALL PROVIDE THE CONTRACTOR SHALL PROVIDE THE CONTRACTOR SHALL PROVIDE THE CONTRACTOR SHALL PROVIDE THE ON THE STORM SEVER SYSTEM. (SIGTOPH PUBLIC AND PRAVIE). THIS SUBMITTAL MAY NEED TO DE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CORTIFICTATE OF CONTRACTOR SHALL PROVIDE THE SIDE STORM SEVER SYSTEM. (SIGTOPH PUBLIC AND PRAVATE). THIS SUBMITTAL MAY NEED TO DE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION THE ISSUANCE OF THE BUILDING CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION THE ISSUANCE OF THE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR	 Sever NALL BE CONSTRUCTED OF PERKODS IN/LEVALS AND WITH JOINT BARE EDUNCTOR CORSSING. WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CORSSING. CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24" VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. UNLESS OTHERWISE NOTED. ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES ADVOED AND AND AND SHALL HAVE THER MISS RAISED SIX INCHES ADVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL HAVE WATER TIGHT, BOLTED LIDS. MININUM REQUIRED SLOPES FOR SEWER SERVICES: "SEWER SERVICE - 200% SLOPE SEWER SERVICE - 200% SLOPE SEWER SERVICE - 0.00% SLOPE UNLESS OTHERWISE NOTED, LOCATE SANITARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANGES IN DIRECTION. MAXIMUM SPACING BETWEEN CLEANOUTS SHALL BE 75 FEET. SEWER SERVICE - 0.00% SLOPE SEWER SERVICE - 0.00% SLOPE SEWER SERVICE - 0.00% SLOPE "SEWER	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE PROTECTION FENCING SH/ AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT (CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH I SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED. TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN.5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH ILME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIST VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCA INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E HALL. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BI PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD E BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABILIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAY OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B' IS US STANDARD "GATOR" BAGS FOR WATERING THE ESS TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS R IRRIGATION.
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DMANGE AND RAXED TO BE FLUSH WITH HWE GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELICCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY ACTION IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY ACTION IS RESPONSIBLE FOR APPROPRIATE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY ACTIONIS. NOTIFY 'NORTH CAROLINA ONE CALL' 'TELEPHONE 1-300-332-499) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION OPERATIONS. NOTIFY 'NORTH CAROLINA ONE CALL' 'TILEPHONE 1-300-332-499) AT LEAST 48 HOURS PRIOR TO START OF DEMOLITION OPERATIONS. NOTIFY 'NORTH CAROLINA ONE CALL''TILE DO CONTRACTOR SHALL CONTACT ANY LOCAL UTILITES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF 'NORTH CAROLINA ONE CALL'.' CLEAN SOLIS SHALL BE UTILIZED FOR BACKFILL COMMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH ITEMS TO BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED TO BE REMOVED START OF THE PROTECTION PLAN AND REQUIREMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON REQUIREMENTS.	 GRADING AND STORM DRAINAGE NOTES: 1. CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. 2. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 2.0% AND SHALL NOT EXCEED 5.0% AND SHALL SHALL NOT EXCEED 5.0% AND SHALL SHALF NOT EXCEED 5.0% AND SHALF SAND CONTRACTOR SHALF PROVIDE THE OWNER'S SEPRESENTATIVE. THE CONTRACTOR SHALF PROVIDE THE OWNER'S SEPRESENTATIVE SHALL SHALF D.0% AND SHALF SAND TO SHAFF AS AND SHAFF SAND AND SHAFF SAND SHAFF S	 Server Name Standards FOR 2005 Institute Provided State Provided State Provided States Provided Pr	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE: ARE INSTALLED. THE TREE PROTECTION FENCING SH AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED. TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIST VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCA INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABILIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAH OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B' I. USE STANDARD "GATOR" BAGS FOR WATERING THE ESS TERRA-SORB (OR EQUIAL) AS PER MANUFACTURERS R IRRIGATION. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO M THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT LANDSCAPING/CO. STANDARDS NOTE: ALL LANDSCAPING/CO.
COMMUNITY MAP NUMBER <u>3720080000 IDATED OF INSTANCEOUP.</u> NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWCUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DANAGE AND BRASED TO BE FLUISH WITH NEW GRADE. ANY UTLITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTLITY PROVER TO TARY OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DANAGE AND REAKES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTLITES PRIOR TO BEGINNING DEMOLITION OPERATIONS, NOTHEY 'NORTH CAROLINA ONE CALL' ('ELEPHONE'LED. OWTRACTOR'DS ISALL CONTACT ANY LOCAL UTLIES THAT PROVIDE THER OWN'L CONTRACTOR IS ARE DOWN TO START OF DEMOLITION OPERATIONS, NOTHEY 'NORTH CAROLINA ONE CALL' ('ELEPHONE'LED. OWTRACTOR'DS ISALL CONTACT ANY LOCAL UTLIES THAT PROVIDE THER OWN'L CONTROL TO START OF YOUTH CAROLINA ONE CALL' CLEAN SOLS SHALL BE UTLIESED FOR REPROVED. CONTRACTOR SHALL CONTACT ANY LOCAL UTLIES THAT PROVIDE THER OWN'L CONTROL TO SHALL CONTRACT AND LOCAL UTLIES THAT PROVIDE THER OWN'L CONTROL TO SHALL CONTRACT AND LOCAL UTLIES THAT PROVIDE THER OWN'L CONTROL TO SHALL CONTRACT AND LOCAL UTLIES THAT PROVIDE THER OWN'L CONTROL TO REMOVED SHALL BE REMOVED. CALL SOLS SHALL BE UNITED TO REACKILL COMPACTION OF THESE SOLS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACTOR SHALL CONTRACT AND LOCAL UTLIES THAT PROVED TO THER ONE TO THE OWN LOCATOR SHALL CONTRACT AND LOCAL UTLIES THAT PROVED TO THE OWNE CONTRACT ON THE SHOULT ON THE SHALL SHORED ON THE CONTRACT ON THE SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. ALL TEMS DESIGNATED TO BE REMOVED SHALL BE	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 50% AND SHALL NAVIMUM RISE OF 30° BETWEEN LANDINGS. NON-CURB CUT RAMPS SHALL HAVE HANDRAILS AND GUARDS PER DETAILS WITH S'LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOW ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STOM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM. THE CONTRACTOR SHALL CORONINATE AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12° AND LARGET HE VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12° AND LARGET HE VISUAL OBSERVATION VIDEO TOY (2) DVD COPIES OF THE ENTIRE DRAINAGE VISUAL OBSERVATION. PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE OWNER WITH THE VIDEO INSPECTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVATE). THIS SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSION CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION INTERIM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. TERIONG GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. TERIONG RADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. TERIONG RADING SHALL BE PROVIDED TO UNDERGROUND STORM SYSTEM. CONTRACTOR TO FIELD VERRY LOCATE AND NO	 Setter MAIN STANDARDS FOR A DISTANCE OF TO FEET ON EACH SIDE OF THE ONLY OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS INCESSARY FOR A WATER MAIN TO CROSS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: SEPARATION OF SANITARY SEWERS AND STORM SEWERS. SEPARATION OF SANITARY SEWERS AND STORM SEWERS. SEPARATION OF SANITARY SEWERS AND THE SANITARY AND THE STORM SEWER AND SANITARY SEWER INES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERTOUS MATERIALS. SUBJECT ON EACH STORM SEWERS AND STORM SEWERS. SEVER NOTES. SUBJECT ON EACH SEARCH AND AND THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERTOUS MATERIALS. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN THAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SAVERTIGHT, DOUTOR LINES SHALL HAVE THER INNS RAISED SIX NOHES ABOVE THE SURROUNDING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SAVER SERVICE - 200% SLOPE MINIMUM REQUIRED SLOPES FOR SEWER SERVICES: * SEWER SERVICE - 200% SLOPE * SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE SEWER SERVICE - 0.50% SLOPE	 TREE PROTECTION NOTE: TREE PROTECTION FENCINI DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH- AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH I SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED J. TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN.S" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH I WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIST VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCA INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EB ALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABLIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORY WIRE. STA- OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B' IBALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABLIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORY THRE. STA- OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B' IBALL. USE STANDARD "GATOR" BAGS FOR WATERING TREES TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS R IRRIGATION. USE STANDARD "GATOR" BAGS FOR WATERING TREES TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS R IRRIGATION. USE "BIO-BARRIEF" OR EQUIVALENT ACCORDING TO M THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT LANDSCAPING/C.O. S
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. CLEANOLTS AND WATER VALVES LOCATED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED PROM DAMAGE AND RASED TO BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ROVIDER, CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE BEQUENDED OF UTILITY DEWILDING SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE BEQUENT CONSTRUCTION SHALL BE THAT PROVIDER. CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE BEQUENDED TO START OF DEGRINING THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES EQUENDED TO START OF DEGRINING THE CORTING TO START OF DEGRINING THAN LOVED AND CALL." CLEAN SOLIS SHALL BE UTILIZED FOR RACKFILL COMPACTION OF THESE SOLIS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY. INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH THE WIST TO BE REMOVED. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY. INCLUDING ALL SUBGRADE MATERIALS DIRECTION FHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS. ALL DEMOLITION FINLING SHALL BE IN PLACE PRIOR TO BEGINNING DEMOLITION. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS. ALL DEMOLITION FALL BE INDIACE PRIOR TO B	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SIGNER ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 3.2% CROSS SLOPE. MANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 3.2% CROSS SLOPE. MANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 3.2% CROSS SLOPE. MANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED 3.2% CROSS SLOPE. MANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL SO THE ANALYMIN RISE OF 300 STERVEEL LANDINGS. ONO-UNED CUIT RAMPS SHALL HAVE HANDRALS AND GUARDS PER DETAILS WITH 5 LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAMAGE IMPROVEMENTS AND RECENTING STORM DRANAGE SYSTEM RENAND LEAN OF SEDMENT AND DERRS. PRIOR TO OWNER ACCEPTANCE OF SYSTEM. THE CONTRACTOR SHALL PAO PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAMAGE MEROUGHEM RENANDL LAND GROEN, THE YEAR CONTRACTOR SHALL PROVIDE TWO (2) DVD COPIES OF THE ENTIRE DRAMAGE VISUAL OBSERVATION. PRIOR TO ISSULANCE OF A BUILDING CERTIFICATE OF OCCUPANCY THE CONTRACTOR SHALL PROVIDE THE SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE SUBMITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CON REFER TO THE BUILDING CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION INTERM GRADING SHALL BE PROVIDED TO INFECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. INTERM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. INTERM GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. I	 WATER MAN STANDARDS FOR A DISTANCE OF 10 FEED OF EACH SIDE OF THE FORM OF CROSSING. CROSSING A WATER MAIN UNDER A SEWER WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS MATER MAIN SOTT HE WATER MAIN NADTHES SOTT HE WATER MAIN NADTHES CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. SEPARATION OF SANITARY SEWERS AND STORM SEWERS: A 24 'CERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERIALS. SEWER NOTES: SANITARY SEWER CLEANOUTS LOCATED IN PAVEMENT AREAS SHALL BE HEAVY DUTY TRAFFIC BEARING CASTINGS. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER MANHOLES ARE 4' DIA. MANHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MANHOLES LOCATED IN PAVEMENT, MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL BAY WATERRING SALES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL MAY WATERRISM. SLOPE BUSING GRADE. MANHOLES SUBJECT TO POSSIBLE WATER INFILTRATION SHALL BAY WATERRISM. SLOPE BY SEVER SERVICE: 200% SLOPE BY SEVER SERVICE: 200% SLOPE BY SEVER SERVICE: 100 STANDARD STANDARD SCIENCES:	 TREE PROTECTION NOTE: TREE PROTECTION FENCIN DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAF EXISTING GRADE AROUND A TREE OR STRIPPING OF 1 MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT 0. ROOT ZONE PROTECTION AREA: VARIES BASED ON LC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO E ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME A TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. O COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INN BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE O SOIL ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE FE SOIL ABDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE FE IS. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD B PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD I BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TR WARRANTY PERIOD. IF STABLIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAND OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B LUSE STANDARD "GATOR" BAGS FOR WATERING TREES TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS F IRRIGATION. LANDSCAPINGICO. STANDARDS NOTE: ALL LANDSCAF CERTIFICATE OF COMPLIANCE.
 NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL SAMOUT EXISTING ASPHALT (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW GUT TO OPTIAN A CLEAN EDGE. THE CONTRACTOR SHALL SAWGUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS SHALL SAWGUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS HAVE SUCCETED IN AREAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND RARED TO BE FLUSH WITH NEW GRADE. CLEANOUTS SHOWN TO BE REMOVED OR FLUSH WITH NEW GRADE. AN UNUTLY SERVICES SHOWN TO BE REMOVED OR FLUSH WITH NEW GRADE. CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES OF APPROPRIATE SEQUENCING OF UTLITY DEMOLITION WITH THE RESPECTIVE UTLITY AGENOLES. CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES AND AND AND CONTROL TO STRATCH PROVIDER. CONTRACTOR IN UNCLUTION STRATCH PROVIDER TO ANY LOCAL UTLITIES INFORMATION OF STRATCH PROVIDE THEIR OWN LOCATOR SERVICES. CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES AND AND AND COLLING ONE CALL? CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES AND AND COLLING ONE CALL? CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES AND AND COLLING TO STRATCH PROVIDE THEIR OWN LOCATOR SERVICES. CONTRACTOR IS RESPONSIBLE FOR VERIEVING ALL UTLITES AND AND COLLING TO STRATCH PROVIDE THE ROWNE AND THE EPROPERTION OF "NORTH CAROLINA ONE CALL? CLEAN SOLIS SHALL BE UTLIZED FOR BACKFILL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH THE THE THE FORMER THE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH THE THE TO BE REMOVED.<!--</td--><td> GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 20% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL SLOPES WITH AMAXIMUM REG O'S D'ENTWER LANDIGS. NON-CURR OUT PANS SHALL HAVE HANDRALLS AND GUARDS PER DETAILS WITH S LANDINGS AT THE BOTTOM AND TOP OF RAME. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEM THE CONTRACTOR SHALL CORONNET E AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEM THE CONTRACTOR SHALL CORONNET E AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEMS AND LANGER. THE VISUAL OSSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LANGER. THE VISUAL OSSERVATION VIDEO ON PLECTORY OF THE STORM SEWER SYSTEMS (BOTH PUBLIC AND LANGER. THE VISUAL OSSERVATION SHALL BE PROVIDED TO AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE SUBMITULAL MAY KEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSIDUE ON DERCTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVET). THIS SUBMITULAL MAY KEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSIDUE ON ONTROL DETAILS SHEET FOR THE SOLUPACITY AND ADD PRIVET. LITERS. UNDERWINNING, AND WASHOUT. INTERIM GRADING SHALL BE PROVIDED THAT E MSURES THE PROTECTION OF STRUCTURES,</td><td> Server NAIN STANDARDS FOR A 19 STANCE OF 10 FEET ON EACH SUB_CONTRELET ON EACH SUB_CONTRUCTION CORRESSING. CROSSING A WATER NAIN UNDER A SEVER, WHENEVER IT IN RECESSARY FOR A WATER NAIN TO CROSS IN A TERNAL SUBTINE RAIN NOT THE SEVER SHALL BE CONSTRUCTED OF FERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PER SHALL BE CONSTRUCTED OF FERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PER SHALL BE CONSTRUCTED OF TERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CONSTRUCTED OF EARCH SUBJECT THE POINT OF CROSSING. A SECTOR OF WATER MAIN SEVER AND SANTARY SEVER INTEG OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERNALS. SEMVER INTES OR BOTH THE SANITARY SEVER MAINFOLES ARE 4 DIA. MAINHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE SET AT GRADE MAINFOLES LOCATED IN DAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE SET AT GRADE MAINFOLES LOCATED IN DAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE STAND THER RIM RAISED SHALL HAVE WATER TIGHT, BOLTED LDS. MINIMUM REQUIRED S. (DOCATED AN OTHER, TRAFES (IE. GRASS OR WOODED AREAS) SHALL BAVE THER RIM RAISED SHALL HAVE WATERTIGHT, BOLTED LDS. MINIMUM REQUIRED S. (DOCATED AND THER SERVICES: 4 SEVER SERVICE: 2 OWS SLOPE SEVER SERVICE: 2 OWS SLOPE UNLESS OTHERWISE NOTED, LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS IN THE CONTRUCTION. MAXIMUM SPACING BETWEEN CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS IN THE CONTRUCTION. MAXIMUM SALOPE UNLESS OTHERWISE NOTED, LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS INTO THERWISE NOTED. LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS INTO</td><td> TREE PROTECTION NOTE: TREE PROTECTION FENCIN DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE PAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS, ROCKS, ETC. LARGER THAN .5" OF ORAVEL & DETRIMENTAL SUBSOIL DIT LIME A TO NOLA ROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE RAINDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E 14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD B PLASTIC</td>	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS. THE MAXIMUM SLOPE ALONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL NOT EXCEED A 20% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 5.0% AND SHALL SLOPES WITH AMAXIMUM REG O'S D'ENTWER LANDIGS. NON-CURR OUT PANS SHALL HAVE HANDRALLS AND GUARDS PER DETAILS WITH S LANDINGS AT THE BOTTOM AND TOP OF RAME. ALL PROPOSED ELEVATIONS SHOWN ARE EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL NEWLY CONSTRUCTED STORM DRAINAGE IMPROVEMENTS AND RECEIVING STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEM THE CONTRACTOR SHALL CORONNET E AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEM THE CONTRACTOR SHALL CORONNET E AND PROVIDE A VISUAL OBSERVATION VIDEO OF ALL STORM DRAINAGE SYSTEMS REMAIN CLEAN OF SEDIMENT AND DEBRIS, PRIOR TO OWNER ACCEPTANCE OF SYSTEMS AND LANGER. THE VISUAL OSSERVATION VIDEO OF ALL STORM DRAINAGE IMPROVEMENTS 12' AND LANGER. THE VISUAL OSSERVATION VIDEO ON PLECTORY OF THE STORM SEWER SYSTEMS (BOTH PUBLIC AND LANGER. THE VISUAL OSSERVATION SHALL BE PROVIDED TO AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE SUBMITULAL MAY KEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSIDUE ON DERCTION OF THE STORM SEWER SYSTEM. (BOTH PUBLIC AND PRIVET). THIS SUBMITULAL MAY KEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JURISDICTION PRIOR TO THE ISSUANCE OF THE BUILDING CO. REFER TO THE EROSIDUE ON ONTROL DETAILS SHEET FOR THE SOLUPACITY AND ADD PRIVET. LITERS. UNDERWINNING, AND WASHOUT. INTERIM GRADING SHALL BE PROVIDED THAT E MSURES THE PROTECTION OF STRUCTURES,	 Server NAIN STANDARDS FOR A 19 STANCE OF 10 FEET ON EACH SUB_CONTRELET ON EACH SUB_CONTRUCTION CORRESSING. CROSSING A WATER NAIN UNDER A SEVER, WHENEVER IT IN RECESSARY FOR A WATER NAIN TO CROSS IN A TERNAL SUBTINE RAIN NOT THE SEVER SHALL BE CONSTRUCTED OF FERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PER SHALL BE CONSTRUCTED OF FERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PER SHALL BE CONSTRUCTED OF TERROUS MATERNALS AND WITH JOINTS EQUIVALENT TO WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING. A SECTOR OF WATER MAIN PIPE SHALL BE CONSTRUCTED OF EARCH SUBJECT THE POINT OF CROSSING. A SECTOR OF WATER MAIN SEVER AND SANTARY SEVER INTEG OR BOTH THE SANITARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERROUS MATERNALS. SEMVER INTES OR BOTH THE SANITARY SEVER MAINFOLES ARE 4 DIA. MAINHOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE SET AT GRADE MAINFOLES LOCATED IN DAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE SET AT GRADE MAINFOLES LOCATED IN DAVEMENT, CONCRETE OR OTHER TRAFTIC AREAS SHALL BE STAND THER RIM RAISED SHALL HAVE WATER TIGHT, BOLTED LDS. MINIMUM REQUIRED S. (DOCATED AN OTHER, TRAFES (IE. GRASS OR WOODED AREAS) SHALL BAVE THER RIM RAISED SHALL HAVE WATERTIGHT, BOLTED LDS. MINIMUM REQUIRED S. (DOCATED AND THER SERVICES: 4 SEVER SERVICE: 2 OWS SLOPE SEVER SERVICE: 2 OWS SLOPE UNLESS OTHERWISE NOTED, LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS IN THE CONTRUCTION. MAXIMUM SPACING BETWEEN CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS IN THE CONTRUCTION. MAXIMUM SALOPE UNLESS OTHERWISE NOTED, LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS INTO THERWISE NOTED. LOCATE SANTARY SERVICE CLEANOUTS AT ALL HORIZONTAL OR VERTICAL CHANNERS INTO	 TREE PROTECTION NOTE: TREE PROTECTION FENCIN DISTURBANCE OR ISSUANCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES." PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE PAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" OF GRAVEL & DEBRIS, ROCKS, ETC. LARGER THAN .5" OF ORAVEL & DETRIMENTAL SUBSOIL DIT LIME A TO NOLA ROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED. BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE RAINDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E 14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD B PLASTIC
COMMUNITY MAY NUMBER 3/20080000 DATEDIACTORER 3, 2009 FRB NELDOV A NO WETLANDS HAVE BEEN DENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN DEMOLITION NOTES: THE CONTRACTOR SHALL REVOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW CUT TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWOUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAWOUT EXISTING ASPHALT (WHERE REQUIRED) TO OBTAIN A CLEAN EDGE. CLEANOUTS AND WATER VALVES LOCATED IN ARRAS OF DEMOLITION OR SUBSEQUENT CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND PARSET OF BE FLUSH WITH NEW GRADE. ANY UTILITY SERVICES SHOWN TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY PROVIDER. CONTRACTOR IS RESPONSIBLE FOR VERPORTARTE SEQUENCING OF UTILITY DEMOLITION WITH THE RESPECTIVE UTILITY AGENCIES. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITES PRIOR TO BEGINNING DEMOLITION OF DISTANT OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY OPHONDER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITES PRIOR TO BEGINNING DEMOLITION OPERTIONS. NOTIFY VIORTI 4 CARLING NOR CALL! THEORY TO RETAIN TO THE REMOVED OR RELEGATED A BOURS BHORT TO START OF DEMOLITION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR IS ALL CONTACT ANY LOCAL UTILITIES THAT ROVOED HER OWN LOCATION SERVICE OCTAVACE WITH THE CONSTRUCTION DOCUMENTS. ALL TEMS DESIGNATED TO BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCIATED WITH THE CONSTRUCTION DOCUMENTS. ALL TEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. REFER TO LANDSCAPE AND EROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS. ALL TEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE UNLESS OTHERWISE NOTED ON THIS PLAN. REPERT TO LANDSCAPE AND DEROSION CONTROL DRAWINGS FOR TREE PROTECTION PLAN AND REQUIREMENTS.	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINING CONSTRUCTION OPERATIONS. THE MANNING CONSTRUCTION OPERATIONS. THE MANNING CONSTRUCTION OPERATIONS. THE MANNING CONSTRUCTION OPERATIONS. THE MANNING CONSTRUCTION OPERATIONS. ALL PROPOSED A 20.0. FORM OPERATIONS. ALL PROPOSED LEVENTONS SUBJE: HONDOR PRAVISE DAY MANN OF MALL BE ANSWALL BY AND MASS. NON-OURB CUT RAMPS SHALL HAVE HANDRALS AND CLARDS PER DEFAILS WITH 5' LANDINGS. NON-OURB CUT RAMPS SHALL HAVE HANDRALS AND CLARDS PER DEFAILS WITH 5' LANDINGS AT THE BOTTOM AND TOP OF RAMP. ALL PROPOSED ELEVATIONS SHOW HAR E EDGE OF PAVEMENT ELEVATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENURING THAT ALL NEWLY CONSTRUCTED STORM DRIANGE IMPROVEMENTS AND RECOUNTS STORM DRIANGE SYSTEMS REMAIN LIZEM OF SEDMENT AND DEBRIS. FRIOR TO OWNER ACCEPTANCE OF SYSTEM, THE CONTRACTOR SHALL COORDINATE AND PROVIDE A YSULU OSERVATION DIVEO OF ALL STORM DRIANGE WITHON DRIVERS REPRESENTATIVE. THE CONTRACTOR SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. THE SOUND SERVATION SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S MERRESONTATIVE. THE SWEWLY THIN THE VIEW DE OF ALL STRUCT WITH STORM SWEWLY SYSTEM. (DOTITAL OF AND PRIVATE SWEWLY THIN THE VIEW DRIVE DESTRUCTION DUT CONTRACTOR SHALL PROVIDE THE SWEWLY AND REPORTING CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTION INTERM GRADING SHALL BE PROVIDED THAT ENSURES THE PROTECTION OF STRUCTURES. UTILITES, SUBWITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL JUBIES AND PREVENT PONDING. REFERT TO THE ERDSIGN CONTROL DETAILS SHEET FOR THE SEQUENCE OF CONSTRUCTIONE SHALL PROVIDE THE SWEWLY AND AND AND ACCEPTED AND ACCEPTED BY THE LOCAL STRUCTURES. UTILITIES, SUBWITTAL MAY NEED TO BE REVIEWED AND ACCEPTED BY THE LOCAL STRUCTURES. UTILITIES, SUBWITTAL MAY NEED TO BE RE	 WATER MAN STMANDER OF DIVERSING OF THE ET ON EACH SIDE OF THE POINT OF COSSING. CROSSING A WATER MAIN UNDER A SEVER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSSING MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN TO ECOSSING.'' CONSTRUCTE OF PERPOUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STMADARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.'' A SECTION OF WATER MAIN STMADARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.'' A SECTION OF WATER MAIN STMADARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.'' A SECTION OF WATER MAIN PIPE MAIL BE CENTERED AT THE POINT OF CROSSING.'' A SECTION OF WATER MAIN PIPE MAIL BE CENTERED AT THE POINT OF CROSSING.'' A SECTION OF WATER MAIN PIPE MAIL BE CENTERED AT THE POINT OF CROSSING.'' A SECTION OF WATER MAIN PIPE MAIL BE CENTERED AT THE POINT OF CROSSING.'' A SECTION OF WATER MAIN PIPE MAIL BE CONSTRUCTED OF EXAMPLE LINES ON DIFT THE SUMMARY AND THE STORM LINES SHALL BE CONSTRUCTED OF FERRODS IS MAILED AND THE STORM LINES SHALL BE CONSTRUCTED OF FERRODS IS MAILED AND THE STORM LINES SHALL BE SET AT GRADE MAINHOLES LOCATED IN PAVEMENT. CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE SHALL BE SET AT GRADE IN MAINCES ARE (LIC GRASS OR WOODED AREAS) SHALL HAVE THER RING RAISED SX MULTES ADULTED US.'' SEWER SERVICE : 100% SLOPE OR SERVICES: '' SEWER SERVICE : 100% SLOPE OR SERVICES: '' SEWER SERVICE : 100% SLOPE SERVICES: '' SEWER SERVICE : 100% SLOPE SERVICE SERVICES: '' SEWER SERVICE : 100% SLOPE SERVICE SERVICES SUBJECT TO ROSSIBLE WATER RING RAISED SX MULTICES ON THE SERVER SERVICE : 100% SLOPE '' SEWER SERVICE : 100% SLOPE SERVICES SERVICES: '' SEWER SERVICE : 100% SLOPE SERVICES SERVICES SERVICES SERVICES SERVICE SERVER SERVICE : SUBJECT OF OXY SUBJECT OF COXY SIGNAL BE AS THE DELOY.'' '' SEWER SERVICE : SUBJECT OF OXY SIGNAL BE AS THE DELOY.''''' SEWER SERVICE : SUBJECT OF OXY SIGNAL BE AS THE SERVER LINES WITH GREATER THAN SERVER IN MAINT MET SERVICE OLEANOUTS S	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUMCE OF A GRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: 'NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES.' PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECT (CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS AREA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED. TOPSOIL. ALL DEBRIS, REGARDLESS OF SIZE ARE TO B ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH INE AL TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHEDDED HARDWOOD MULCH 3' DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UNE AL TO NO CAP ROCEDURES. SCARIFY PLANT PIT WALLS. O COMPLIANCE. SHEDDED HARDWOOD MULCH 3' DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE ARISED 2-3 INCHES ABOVE E BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABILIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAJU OF OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED B BALL. LANDSCAPING/C. O. STANDARD NOTE: ALL LANDSCAP CERTIFICATE OF COMPLIANCE.
COMMONITY MAY RUNGER <u>AFADORAUM DATED CONCERNS ADJACTORY</u> NO WETLANDS HAVE BEEN IDENTIFIED WITHIN THE PROJECT OR PARCEL SHOWN. DEMOLITION NOTES: THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW OUT TO ORITAN A CLEAN EDGE. THE CONTRACTOR SHALL REMOVE CONCRETE (WHERE REQUIRED) TO THE FIRST COLD JOINT OR SAW OUT TO ORITANA CLEAN EDGE. THE CONTRACTOR SHALL SAVOUT EXISTING ASPHALT (WHERE REQUIRED) TO DETAIN A CLEAN EDGE. THE CONTRACTOR SHALL SAVOUT EXISTING ASPHALT (WHERE REQUIRED) TO DETAIN A CLEAN EDGE. CLEANOUTS AND WATER VALUES LOCATED IN AREAS OF DEMOLITION OF SUBSEQUENT CONSTRUCTION SHALL BE PHOTECTED FROM DAMAGE AND RAIGED TO BE FLUGS WITH NEW CRADE. ANY UTLITY SERVICES SHOWN TO BE REMOVED OR RELICATED SHALL BE COORDINATE OWITH THE APPROPRIATE TUITI'N THEORY DESCRIPTION OF RELICATED IN THE SPRONT TO DESCRIPTION OF THE APPROPRIATE TUITI'N THEORY DESCRIPTION OF RELICATED SHALL BE COORDINATE OF DIMENTICATION REPORT OF DEMOLITION OFFENTIONES. CONTRACTOR IS RESERVICES INDEFENDENT OF YNORTH CANOLING OF UTLITINE THAT PROVIDE THEORY ON THE CONTRACTOR IS REAL CONTRACTOR IN RECOVERING OF DIMENTION OFFENTIONS. NOTHY YNORTH CAROUNA ONE CALL' (TELEPHONE LOCATEON OF THESE SOLES SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. ALL TENS DESIGNATED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCRTED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCRTED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCRTED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCRTED TO BE REMOVED SHALL BE REMOVED ON THEORY TO RECOVEN THE HARE THAT PHOTECTED TO BE REMOVED SHALL BE REMOVED COMPLETELY, INCLUDING ALL SUBGRADE MATERIALS DIRECTLY ASSOCRTED TO BE REMOVED SHALL BE REMOVED ON THE PHER AND LOCAL JURISDICTIONAL CODES	 GRADING AND STORM DRAINAGE NOTES: CONTRACTOR SHALL REPORT ANY GRADE DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNIC CONSTRUCTION OPERATIONS. THE MANINUM SLOPE A LONG ANY HANDICAP ACCESSIBLE PATHWAY SHALL NOT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL BCT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL BCT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL BCT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL BCT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAP ACCESSIBLE PATHWAY SHALL BCT EXCEED 30% AND SHALL NOT EXCEED 2 30% CROSS SLOPE. HANDICAR STIRED STRUMA BLAE AND ASSLOPE. THE HANDICAR AND DEAMAGE SPEC DETAIL AND RECEIVING STORM DRAINAGE STRUME REMAIN ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAIN ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAINS ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAINS ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAINS ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAINS ELEAN OF SEDIMATING DRAINAGE BARCOVERNEW AND RICCIVING STORM DRAINAGE STRUME REMAINS ELEAND LARGERT THE VISUA OBSERVATION SHALL BE REPORTING IN THE STORM STRUME REMAINS ENDING CAND REVORE THE CONTRACTOR SHALL DRAINE ENDING SCIENCE OF CONSTRUCTIVES STRUME AND RAINES DEPORATION. THE SIDUMACE OF THE BUILDING CO. REFER TO THE ENGLIDING SCIENCE DATA THE SIDUME STRUME DRAINE CONTRACTOR TO THE SIDUMASE SIDUMACE OF THE BUILDING CO. REFER TO THE ENGLIDING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. THERING GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. THERING GRADING SHALL BE PROVIDED TO DIRECT WATER AWAY FROM BUILDINGS AND PREVENT PONDING. THE	 SATER MAIN STANDARDS FOR A DISTANCE OF NOTECH AGAIN DEUTS INTO DATE THEON TO FERDING TO CROSSENT OF A DISTANCE OF NOTECH TO AGAIN DE CONTRACTOR A MAIN TER MAIN STANDARDS FOR A DISTANCE OF NOTECH AGAIN TO CROSS UNDER A SEWER BOTH THE WATER MAIN TO WATER MAIN STANDARDS FOR A DISTANCE OF NOTECH TO MAINTEE MAIN STANDARDS FOR A DISTANCE OF NOTECH TO POINT OF CROSSING. CROSSING AND ITH JOINTS EQUIVALENT TO WITTEM MAIN STANDARDS FOR A DISTANCE OF NOTECH TO POINT OF CROSSING. SEPARATION OF SAMTRY SEWERS AND STORM SEWERS: A. 24' VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SAMTRY SEVERABLE ON SAMTRY SEVERABLE CONSTRUCTED OF FEROLOGIES. MAITERNAS. UNLESS OTHERWISE NOTED J.LL SAMTARY AND THE STORM AND SAMTRY SHALL BE CONSTRUCTED OF FEROLOGIES MAIL TO WATER MAIN TARY SAMTRY SEVERABLE SHALL BE HEAVY DUTY TRAFFIC BEARING CONSTRUCTED OF FEROLOGIES. UNLESS OTHERWISE NOTED J.LL SAMTARY SEVER MAINOLES ARE 4'DIA. MANDOLES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE EST AT GRADE. MAIN DUES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MAIN DUES LOCATED IN PAVEMENT, CONCRETE OR OTHER TRAFFIC AREAS SHALL BE SET AT GRADE. MINIMUM REQUIRED SLOPES FOR SEVER SERVICE. SEWER SERVICE - 2.00% SLOPE SEWER SERVICE - 2.00% SLOPE SEWER SERVICE - 2.00% SLOPE SEWER SERVICE - 0.00% SLOPE SE	 TREE PROTECTION NOTE: TREE PROTECTION FENCINA DISTURBANCE OR ISSUMCE OF A SRADING PERMIT A ENGLISH AND SPANISH, AS FOLLOWS: 'NO TRESPASSI ZONA PROTECTORA PARA LOS ÁRBOLES.' PROTECTION OF EXISTING VEGETATION: AT THE STAR EXISTING GRADE AROUND A TREE OR STRIPPING OF T MADE AT THE EDGE OF THE TREE SAVE AREA AT THE ARE INSTALLED. THE TREE PROTECTION FENCING SH- AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN THE TREES IS COMPLETE. NO STORAGE OF MATERIAL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTEC CONTRACTOR SHALL COMPLY WITH LOCAL JURISDICT WITHIN THIS REA. AREA MUST BE PROTECTED WITH SIGNS. SEED BED PREPARATION: ALL AREAS TO BE SEEDED TOPSOIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN. 5' OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO B 0. ALL PLANT BED AREAS ARE TO RECEIVE A MINIMUM O SOIL SHOULD BE TESTED AND AMENDED WITH LIME AI TO NCDA PROCEDURES. SCARIFY PLANT PIT WALLS. C COMPLIANCE. SHREDDED HARDWOOD MULCH 3' DEEP EXCEPT AT C AT CROWN SHOULD BE REVEALED BACKFILL CONSIS' VOLUME OF BACKFILL SHOULD BE AMENDED WITH UP NO LARGER THAN WHAT PASSES THROUGH A ONE INC BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE (SOIL. ADDITIONAL SOIL TO BE RAPROVED BY LANDSC/ INCHES. TOP OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE E 14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD B BALL. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TRI WARRANTY PERIOD. IF STABILIZATION IS NECESSARY TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAI OF ONE YEAR WARRANTY PERIOD OR AS DIRCTED B 18. USE 'SIO-BARRIER'' OR EQUIVALENT ACCORDING TO M THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT 19. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAF CERTIFICATE OF COMPLIANCE.

PATTERN NOTES:

L UNIT PAVING PATTERNS WITH A FULL OR HALF SIZE PAVER UNLESS OTHERWISE NOTED. USE IZE PAVERS WHERE PATTERN ENDS ON A UNIT SMALLER THAN HALF SIZE.

T OF UNIT PAVING PATTERNS AND CONCRETE JOINTS AS INDICATED ON THIS PLAN. REFERENCE T PLANS FOR FURTHER PAVING LAYOUT INFORMATION.

S ABUTTING TRUNCATED DOMES SHALL BE A CONTRASTING COLOR.

ALL TRUNCATED DOME PAVER JOINTS WITH ABUTTING PAVER JOINTS.

DE CONTINUOUS EXPANSION JOINTS BETWEEN BACK OF CURB AND ADJOINING PAVEMENT.

DE CONTINUOUS EXPANSION JOINT BETWEEN ALL VERTICAL SURFACES AND ADJOINING PAVEMENT.

MENSIONS MEASURED TO CENTERLINE OF JOINTS.

RITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.

AYOUTS TO BE APPROVED BY LANDSCAPE ARCHITECT.

E, STRIPING AND MARKING NOTES:

TERNAL SIGNAGE SHALL BE COORDINATED WITH OWNER FOR ACTUAL LOCATION AT TIME OF LATION. SIGNAGE LEADING ONTO PUBLIC THOROUGHFARE SHALL BE INSTALLED AT RIGHT OF WAY OT STANDARDS

VEMENT STRIPING (EXCEPT INDIVIDUAL PARKING BAY STRIPING) SHALL BE THERMOPLASTIC CTIVE PAINT. MATERIALS AND DIMENSIONS SHALL CONFORM TO NCDOT STANDARDS AND FICATIONS. PARKING BAY STRIPING SHALL BE WHITE REFLECTIVE PAINT.

WALKS SHALL BE CONSTRUCTED OF THERMOPLASTIC MATERIALS AND CONSTRUCTED IN RDANCE WITH STATE DOT SPECIFICATIONS. CONTRACTOR TO INSTALL CROSSWALKS IN SUCH A R THAT CROSSWALKS ARE ALIGNED BETWEEN HANDICAP/WALKWAY ACCESS POINTS OR NDICULAR TO THE ROADWAY / DRIVE LANE.

(MBOLS SHOWN THESE DRAWINGS ARE FOR LOCATION PURPOSES ONLY AND NOT INTENDED TO BE D. CONTRACTOR RESPONSIBLE FOR INSTALLING ALL REQUIRED ADA SIGNAGE

CAPE NOTES:

Y ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE ER'S REPRESENTATIVE PRIOR TO PLANTING.

SCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING RIALS WITHIN THE PROJECT AREA.

ANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING AND NEW RGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY THE SCAPE OPERATION SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE

SCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS ON THE SITE.

REES TO BE A MINIMUM OF 2" IN CALIPER AND MUST MEET THE AMERICAN STANDARD FOR NURSERY

PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND IRBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / PROTECTORA PARA LOS ÁRBOLES."

ECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF ING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES NSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF REES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL LOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.

ZONE PROTECTION AREA: VARIES BASED ON LOCAL JURISDICTION HAVING AUTHORITY. RACTOR SHALL COMPLY WITH LOCAL JURISDICTIONAL REQUIREMENTS. NO DISTURBANCE ALLOWED IN THIS AREA. AREA MUST BE PROTECTED WITH BOTH TREE PROTECTION FENCING AND WARNING

BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO BE RECEIVE A MINIMUM OF 2" OF APPROVED COIL. ALL DEBRIS, ROCKS, ETC. LARGER THAN .5" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS RAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.

LANT BED AREAS ARE TO RECEIVE A MINIMUM OF 6" OF APPROVED TOPSOIL.

SHOULD BE TESTED AND AMENDED WITH LIME AND FERTILIZER FOR HARDWOOD TREES ACCORDING CDA PROCEDURES. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE LIANCE.

DDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE ROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL. TOTAL ME OF BACKFILL SHOULD BE AMENDED WITH UP TO ONE THIRD PINE BARK MULCH. PIECES SHOULD BE RGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR FILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6

OF ROOTBALL TO BE RAISED 2-3 INCHES ABOVE EXISTING GRADE.

8&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. TIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT

RACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE RANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL, ORANGE FLAGGING SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END NE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.

TANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE A-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER ATION.

BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES WILL BE PLANTED WITHIN 10' OF PAVEMENT

SCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A IFICATE OF COMPLIANCE.

223 S. WEST ST., #1100 RALEIGH, NC 27603 7 919.380.8750
BOBBITT 600 GERMANTOWN ROAD RALEIGH, NC 27607 CONTACT: NEAL CONLEY PHONE 919.800.4632
Vicinity map:
BRUCE JOHNSON RD BRUCE JOHNSON RD US RD, WE RD, SON RD NORTH Seal: PRELIMINARY - DO NOT
USE FOR CONSTRUCTION
Scale:
LILLINGTON FIRE STATION HWY 210
SITE PLAN SUBMITTAL No. Date Description
1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS -
Title: GENERAL NOTES
Project number: C23050 Sheet #: Issued Date: 06.14.2024 Drawn by: RPL CO.10 Approved by: RPL

GENERAL NOTES

- 1. THIS SURVEY MAP IS INTENDED TO REPRESENT THE EXISTING CONDITIONS/TOPOGRAPHY ON A PORTION OF THE PROPERTY OF KDP DEVELOPMENT LLC, PIN 0661-03-5646 & CAPE FEAR PRES CHURCH, PIN 0661-13-0264, AND IS NOT A BOUNDARY SURVEY. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND THEREFORE ALL ENCUMBRANCES UPON THE PROPERTY MAY NOT BE SHOWN.
- 2. THE PROPERTY LINES SHOWN HEREON HAVE BEEN CONFIRMED FROM A PARTIAL SURVEY BY STEWART ENGINEERING. PROPERTY LINES SHOWN TAKEN FROM PLAT BOOK 2016, PAGE 174, RECOVERED MONUMENTATION AND OTHER REFERENCES LISTED HEREON.
- HORIZONTAL DATUM IS NAD 83 (2011) AND VERTICAL DATUM IS NAVD88. BASED ON GPS METHODS USING .3. REAL-TIME KINEMATIC SOLUTIONS FOR THE SURVEY CONTROL POINTS SHOWN HEREON AND TIED TO NORTH CAROLINA GEODETIC SURVEY MONUMENTS "CRENSHAW".
- "CRENSHAW (PUBLISHED)" N 613323.48'
- E 2061185.68' EL 254.1'
- 4. THE INITIAL STATE PLANE POSTIONS FOR THIS SURVEY WERE SCALED FROM GRID TO GROUND FROM A PROJECT LOCATION OF N: 613311.351' E: 2061181.955', AN ELEVATION OF 253.95' (TRAV-1), USING A COMBINED FACTOR OF 0.99987072.
- 5. THIS DRAWING DOES NOT CONFORM TO N.C. GS47-30 AND THEREFORE IS NOT FOR RECORDATION.
- 6. ALL DISTANCES ARE IN U.S. SURVEY FEET. AREA COMPUTED BY COORDINATE METHOD.
- 7. UTILITIES SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE EVIDENCE AND UTILITY DESIGNATION/MARKING SERVICES (LEVEL B) PERFORMED AS A PART OF THIS SURVEY. ANY LINES LABELED AS QLC OR QLD ARE BASED ON RECORD INFORMATION. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE COMMENCING CONSTRUCTION.
- 8. TREES SHOWN HEREON MAY NOT REPRESENT ALL VEGETATION ON THE SUBJECT PROPERTY.
- 9. THE SUBJECT PROPERTY IS ZONED "CD-NMX" (TOWN OF LILLINGTON) & MU-1 (HARNETT COUNTY).
- 10. THE SUBJECT PROPERTY LIES IN ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE AND FUTURE CONDITIONS 1% ANNUAL CHANCE FLOODPLAIN), BASED ON THE FLOOD INSURANCE RATE MAP NUMBER 3720066000J DATED 10/03/2006. FRIS.NC.GOV.

N8818'17"W_182.35'

2MYR

2MYR 🗧

CRENSHAW LYNWOOD JCRENSHAW KATHY S

PIN 0661-03-8232.000 78 TRIPP RD

D.B. 948, PG. 0892 P.B. 2016, PG. 174

11. SITE ADDRESS: 2793 & 2873 NC 210 N



LEGEND	
\wedge	CONTROL POINT
O AXF	AXLE FOUND
O IPF	IRON PIPE FOUND
O IRF	IRON ROD FOUND
CMF	CONCRETE MON FOUND
C RWM	R/W MON FOUND
MGS	MAGNAIL SET
MHS	MAGHUB SET
	CALCULATED POINT
#	STORM CATCH BASIN
Ŵ	WATER METER
⊙ GP	GAS MARKER
⊳ GV	GAS VALVE
⊡ EM	POWER METER
¢	LIGHT POLE
Ø	UTILITY POLE
AC	AIR CONDITIONER
100.00'	FINISH FLOOR ELEV.
۵	MAILBOX
-0-	SIGN
• POST	FENCE POST
÷	BUSH
MAP	MAPLE
MYR	MYRTLE
<i>T</i>	UNDERGROUND TELE COMM
F0	UNDERGROUND FIBER OPTIC LINE
G	UNDERGROUND GAS LINE
E	UNDERGROUND ELECTRIC LINE
<i>W</i>	UNDERGROUND WATER LINE
	STORM DRAIN LINE
CATV	CABLE TELEVISION
ОНѠ	OVERHEAD WIRES
{	UNKNOWN DESTINATION
	JURISDICTIONAL BOUNDARY
	CONCRETE SURFACE
	GRAVEL SURFACE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
CPP	CORRUGATED PLASTIC PIPE

I, JORDAN M. SCHOFF, CERTIFY THAT THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THIS GROUND SURVEY WAS PERFORMED AT THE 95 PERCENT CONFIDENCE LEVEL TO MEET FEDERAL GEOGRAPHIC DATA COMMITTEE STANDARDS; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS B STANDARD, AND THAT THE ORIGINAL DATA WAS OBTAINED ON JANUARY 29TH, 2024; THAT THE SURVEY WAS COMPLETED ON FEBRUARY 1ST, 2024; THAT CONTOURS SHOWN AS [CONTINUOUS LINES] MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD83(2011) AND ALL ELEVATIONS ARE BASED ON NAVD 88.

DocuSigned by:

Jordan M JORDAN M. SCHOFF, PLS # 4939

E13E49EF03AC48B... 2/1/2024





ojects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C1.00 Existing Conditions Plan.dwg Apr 17, 2025 - 4:3



ojects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C2.00 Demolition Plan.dwg Apr 17, 2025 - 4:39

<u>он ш он телеки с с с с с с с с с с с с с с с с с с с</u>	LINETYPE LEGEND: SYMBOL DESCRIPTION Image: Construct of the symbol of	<image/> <section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header>
THIN HO HO HO HO HO HO HO HO HO HO	NOTES: 1. SEE SHEET L0.10 FOR GENERAL AND DEMOLITION NOTES.	Scale: 0 10 20 40 0 10 20 40 CARLON FIRE
P =251.32		STATION HWY 210 Issued for: SITE PLAN SUBMITTAL No. Date Description 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 3 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 4 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2024 ADDENDUM #1 2 13 NOV 2025 REVISION TO TOL SITE PLAN COMMENTS 1 13 NOV 2025 REVISION TO TOL SITE PLAN COMMENTS 1 14 10 10 10 10 10 10 10 10 10 10 10 10 10



L:\Projects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C3.00 Site Plan.dwg Apr 17, 2025 - 4:40p

GENERAL CONTRACTOR TO COORDINATE
 WITH UTILITY COMPANY TO RELOCATE
 EXISTING POLE PRIOR TO CONSTRUCTION.
 NEW POLE LOCATION SHALLFUNCTION
 WITH PROPOSED PROJECT IMPROVEMENTS.

LINETYPE LEGEND:		
SYMBOL	DESCRIPTION	
	PROPERTY LINE	
	EASEMENT	
	SETBACK	JILVVARI
BZ	RIPARIAN BUFFER (50')	223 S. WEST ST., #1100FIRM LICENSE #: C-1051RALEIGH, NC 27603www.stewartinc.com
TP	TREE PROTECTION FENCE	T 919.380.8750 PROJECT #: C23050
	ACCESSIBLE ROUTE	
		BIBBIT
SITE LEGEND:		
SYMBOL DESCRIPTION		
PROPOSED BUILDING		Client: BOBBITT
PROPOSED CONCRETE PAVEMENT		600 GERMANTOWN ROAD RALEIGH, NC 27607
PROPOSED ASPHALT PAVEME	ENT	CONTACT: NEAL CONLEY PHONE 919,800,4632
PROPOSED STD. CURB & GUT	TER	
PROPOSED VALLEY CURB & G	GUTTER	
PROPOSED STOP BAR		
PROPOSED 10' WIDE HI-VIZ		
PROPOSED SIGN	ACE	
PROPOSED ADA PARKING SP/ PROPOSED BOLLARD		
P/A PLANTED AREA		
		Vicinity map:
		TRYON ST
SETBACK / EASEMENT		2 CARLTON BROWN RD
NOTES:		BRUCE JOHNSON RD
1. SEE SHEET C0.10 FOR GENERAL AND	SITE NOTES.	
		Lis to A
	MENSIONS	CORNELIUS HARNIC
MA X BUILDING LOT SIZE LOT WIDTH DENSITY FF	RONT SIDE SIDE REAR	NORTH Store
HEIGHT SE	TBACK SETBACK SETBACK	Seal:
4 STORIES NO MIN. NO MIN. NO MAX. 15	' MAX. 12' MAX. NO MIN. NO MIN.	PRELIMINARY - DO NOT
		USE FOR CONSTRUCTION
		WITH CAROL
		Stephen Stephen Start St
		SEAL
		15834 3.03.2025/ E
		132 WGINEER AS
		AUL LORE
		Scale:
		SCALE: 1" = 40' NORTH
		Project:
		STATION HWY 210
		Issued for:
		SITE PLAN SUBMITTAL
		No. Date Description
		<u>1</u> 17 APR 2025 NCDOT DRIVEWAY PERMIT
		<u></u>
		<u> </u>
		<u> </u>
		<u></u>
		Title:
		Project number: C23050 Sheet #
		Issued Date: 10.25.2024
		Drawn by: MTJ C3 00
		Approved by: RPL
1		1



cts\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C3.00 Site Plan.dwg Apr 17, 2025 -

1	LINETYPE LEGEND:	
	SYMBOL DESCRIPTION	
5		
	EASEMENT	
		223 S. WEST ST., #1100 FIRM LICENSE #: C-1051
	BZ————————————————————————————————————	RALEIGH, NC 27603 www.stewartinc.com
	TREE PROTECTION FENCE	1 9 19.380.8750 PROJECT #: C23050
	ACCESCIBLE NOOTE	
		DADDITT
		DUDDIII
	SITE LEGEND:	
	SYMBOL DESCRIPTION	
	PROPOSED BUILDING	Client:
	PROPOSED CONCRETE	600 GERMANTOWN ROAD
	PAVEMENT	RALEIGH, NC 27607
	PROPOSED ASPHALT PAVEMENT	PHONE 919.800.4632
	PROPOSED STD. CURB & GUTTER	
	PROPOSED VALLEY CURB & GUTTER	
	PROPOSED STOP BAR	
	CROSSWALK	
	PROPOSED SIGN	
O≥		
T à	PROPOSED BOLLARD	
NF		
* 0		Vicinity map:
ΟŽ	PROPERTY LINE	
N io		
<u> </u>	SEIBACK / EASEMENT	CARLTON BROWN RD
	NOTES	
	NUTES:	BRUCE JOHNSON RD
	1. SEE SHEET C0.10 FOR GENERAL AND SITE NOTES.	
	2. COORDINATE SITE LIGHTING LOCATIONS WITH LIGHTING	US TOT IL
	DESIGNER. SEE SHEET E2.3	
	3. DUMPSTER AND MECHANICAL UTILITIES SCREENING PER	
	TOWN OF LILLINGTON:	NUS HARNETT BLUE
	4.08.8 DUMPSTERS AND MECHANICAL UTILITIES SCREENING	NORTH
	A. All dumpsters, loading docks, outdoor storage areas and utility structures,	Seal:
	which are visible from a public street or adjacent property line, shall be screened unless already screened by an intervening buffer yard. Such	PRELIMINARY - DO NOT
	equipment shall be considered out of view if it is within the 45 degree angles	USE FOR CONSTRUCTION
	projected from the building edges. B. Screeping shall consist of evergreen shrubs, fencing, walls or berms, and shall	CARO UN
	comply with all other standards of this section.	Storest in Million
	C. All screening of utilities shall comply with the requirements of the utility	The All And
	D. Where possible, enclosures for dumpsters are encouraged to be constructed	SEAL
	with materials that are compatible with the design and materials of the principal	15834
	 Screening may be created through the use of: Solid-wood fence, or fabricated metal fence, each with shrub plantings 	E.O. Chouce III
	placed around the enclosure (they do not need to completely screen the	PAULORINE
	enclosure) that grow as high, or nearly as high, as the fence to provide an attractive separation or	AND LOWING
	2. Brick fence, brick/split face block, or decorative block (plantings not	
	required).	Scale:
Δ	NMX ZONING DIMENSIONS	
2		
	HEIGHT	0 10 20 40
	SEIBACK SEIBACK SEIBACK SEIBACK	SCALE: 1" = 20' NORTH
	4 STORIES NO MIN. NO MIN. NO MAX. 15' MAX. 12' MAX. NO MIN. NO MIN.	
		Project:
		logued for:
		135000 101.
		SITE PLAN SURMITTAL
		No. Date Description
		1 13 NOV 2024 ADDENDUM #1
		2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS
		<u>3</u> <u>17 APR 2025</u> <u>REV'D PER OWNER COMMENTS</u>
		<u> </u>
		<u></u> <u></u>
		Title:
		SITE PLAN
		Project number: C23050 Sheet #:
		Drawn by: MT.1
		Approved by: RPL C3.01



NC # 210	60' NCDOT 1

LINETYPE LEGEND:	
SYMBOL	DESCRIPTIO
	LIMITS OF

EASEMENT ____ SETBACK

ACCESSIBLE ROUTE

F DISTURBANCE PROPERTY LINE **RIPARIAN BUFFER (50')** TREE PROTECTION FENCE





PAVEMENT TYPE	ABC	REINF.	CONCRETE
HEAVY DUTY CONCRETE	6"	1 ROW <u>– <u>#4</u> <u>REBAR</u> SPACED 12["] O.C. EACH WAY</u>	8"
SIDEWALK	-		4"





rojects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C3.90 Site Details.dwg Apr 17, 2025 - 4:



SEEDING PRE	PARATION:		EROSION CONTROL NOTES:
1. CHISEL COMPA	CTED AREAS AND SPREAD TOPSOIL 3 INCHES DI	EEP OVER ADVERSE SOIL CONDITIONED, IF	1. REFER TO C3.00 FOR GENERAL NOTES.
AVAILABLE.			2. ALL EROSION CONTROL MEASURES SHALL BE INSTA
3. REMOVE ALL LO AND UNIFORM.	DOSE ROCK, ROOTS, AND OTHER OBSTRUCTION	S LEAVING SURFACE REASONABLY SMOOTH	3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION CONTROL MEASURE
4. APPLY ALL AGF	RICULTURAL LIME, FERTILIZER, AND SUPERPHOS	PHATE UNIFORMLY AND MIX WITH SOIL (SEE	
5. CONTINUE TILL PREPARED.	AGE UNTIL A WELL PULVERIZED, FIRM, REASONA	ABLY UNIFORM 4 TO 6 INCHES DEEP SEEDBED IS	CONSTRUCTION ENTRANCES AS NECESSARY TO PR TRACKING OF SEDIMENT OFF-SITE. THE OWNER IS R MAINTENANCE OF ALL PERMANENT EROSION CONTR
6. SEED ON A FRE CULTIPACK AF	SHLY PREPARED SEED BED AND COVER SEED I TER SEEDING.	LIGHTLY WITH SEEDING EQUIPMENT OR	CONSTRUCTION IS COMPLETE, IF ANY PERMANENT N REQUIRED.
 MULCH IMMEDI INSPECT ALL SI IE POSSIBLE IE 	ATELY AFTER SEEDING AND ANCHOR MULCH. EEDED AREAS AND MAKE NECESSARY REPAIRS STAND SHOULD BE OVER 60% DAMAGED REES	OR RESENDING WITHIN THE PLANTING SEASON, TABLISH FOLLOWING ORIGINAL LIME.	5. APPROVAL OF THIS EROSION AND SEDIMENTATION (DOES NOT CONSTITUTE AN APPROVAL OF DRAINAGE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CH FACILITIES, UTILITIES, ETC.).
FERTILIZER AN 9. INSPECT ALL SI IF POSSIBLE. IF	D SEEDING RATES. EEDED AREAS AND MAKE NECESSARY REPAIRS STAND SHOULD BE OVER 50% DAMAGED , REES	OR RESENDING WITHIN THE PLANTING SEASON, TABLISH FOLLOWING ORIGINAL LIME,	6. THE IMPLEMENTATION OF THESE ESC PLANS AND TH MAINTENANCE, REPLACEMENT, AND UPGRADING OF FACILITIES IS THE RESPONSIBILITY OF THE CONTRAC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVI
FERTILIZER AN 10. SEE LANDSCAF DESIGNATED T	D SEEDING RATES AND LANDSCAPING PLANS. YING PLANS FOR PERMANENT SEEDING, MULCHIN O RECEIVE PLANTS SHALL BE SEEDED PER THE	NG, AND FERTILIZING RATES. ALL AREAS NOT LANDSCAPING PLANS.	7. DURING THE CONSTRUCTION PERIOD, NO DISTURBA LIMITS OF DISTURBANCE (L.O.D.) SHALL BE PERMITT BE MAINTAINED BY THE ESC SUPERVISOR FOR THE I
TEMPORARY	SEEDING PREPARATION:		8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE
1. CHISEL CON AVAILABLE.	IPACTED AREAS AND SPREAD TOPSOIL THREE IN	ICHES DEEP OVER ADVERSE SOIL CONDITIONS, IF	PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED
2. RIP THE ENT	IRE AREA TO SIX INCHES DEEP.		9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS
3. REMOVE AL AND UNIFOR	LOOSE ROCK, ROOTS AND OTHER OBSTRUCTION	DNS, LEAVING SURFACE REASONABLY SMOOTH	CONSTRUCTION PERIOD, THESE ESC FACILITIES SHA AS NEEDED FOR UNEXPECTED STORM EVENTS AND ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., A PUMPS, RELOCATION OF DITCHES AND SILT FENCES
4. APPLY AGRI ADMIXTURE	CULTURAL LIME, FERTILIZER AND SUPER PHOSP BELOW).	HATE UNIFORMLY AND MIX WITH SOIL (SEE	10. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY SUPERVISOR AND MAINTAINED TO ENSURE CONTINU
 CONTINUE T SIX INCHES SEED ON A I 	ILLAGE UNTIL A WELL-PULVERIZED, FIRM, REAS(DEEP. FRESHLY PREPARED SEEDBED AND COVER SEEI	DNABLY UNIFORM SEEDBED IS PREPARED FOUR TO	FUNCTIONING. WRITTEN RECORDS SHALL BE MAINT CONTRACTOR THROUGHOUT THE DURATION OF THE OF THE WRITTEN INSPECTION REPORTS SHALL BE P OWNER'S REPRESENTATIVE TWICE PER WEEK AND A
CULTIPACK	AFTER SEEDING.		GREATER THAN 0.5". RAIN GAUGE REQUIRED ON SIT
8. INSPECT ALI SEASON, IF	- SEEDED AREAS AND MAKE NECESSARY REPAIR POSSIBLE. IF STAND SHOULD BE MORE THAN 60°	RS OR RE-SEEDINGS WITHIN THE PLANTING % DAMAGED, RE-ESTABLISH FOLLOWING THE	FOURTEEN DAYS SHALL BE IMMEDIATELY STABILIZE APPROVED ESC METHODS (E.G., SEEDING, MULCHIN COVERING, ETC.).
9. CONSULT S PERMANEN	REC ENVIRONMENTAL ENGINEERS ON MAINTENA COVER IS ESTABLISHED.	NCE TREATMENT AND FERTILIZATION AFTER	12. THE ESC FACILITIES ON INACTIVE SITES SHALL BE IN MAINTAINED A MINIMUM OF ONCE A MONTH OR WITH HOURS FOLLOWING A STORM EVENT.
SEEDING SCH	IEDULE		SEQUENCE OF CONSTRUCTION ACTIVI
SHOULDERS, SIDE D	ITCHES, SLOPES (MAX 3:1)		1. OBTAIN GRADING PERMIT.
DATE AUG 15 - NOV 1	TYPE TALL FESCUE	PLANTING RATE 300 LBS/ACRE	2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
NOV 1 - MAR 1	TALL FESCUE & ABRUZZI RYE	300 LBS/ACRE 25 LBS/ACRE	3. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD TO THE START OF ANY CONSTRUCTION ACTIVITIES
MAR 1 - APR 15	TALL FESCUE	300 LBS/ACRE	CONTROL INSPECTOR, ARCHITECT, ENGINEER, AND SHALL BE PRESENT TO SATISFY REQUIREMENTS.
APR 15 - JUN 30	HULLED COMMON BERMUDAGRASS	25 LBS/ACRE	4. INSTALL CONSTRUCTION ENTRANCE, TREE PROTEC
JUL 1 - AUG 15	***BROWNTOP MILLET	35 LBS/ACRE	FENCE, PERIMETER EROSION CONTROL DEVICES AN BASINS AND TRAPS.
	***OR SORGHUM-SUDAN HYBRIDS	30 LBS/ACRE	5. SCHEDULE SITE INSPECTION.
SLOPES (3:1 TO 2:1)			6. UPON APPROVAL TO PROCEED BY THE EROSION CO HARVEST ANY TIMBER
DATE	TYPE	PLANTING RATE	7. CONSTRUCT REMAINING EROSION CONTROL MEASU
MAR 1 - JUN 1	***BROWNTOP MILLET	50 LBS/ACRE	8. REMOVE AND/OR STORE TOPSOIL.
(MAR 1 - APR 15)	ADD TALL FESCUE OR ADD HULLED COMMON BERMUDAGRASS	120 LBS/ACRE (MAR 1 - JUN 30) 25 LBS/ACRE	9. BEGIN GRADING OPERATIONS.
JUN 1 - SEP 1	***TALL FESCUE AND ***BROWNTOP MILLET ***OR SORGHUM-SUDAN HYBRIDS	120 LBS/ACRE 35 LBS/ACRE 30 LBS/ACRE	10. CLEAN SEDIMENT BASINS/TRAPS WHEN ONE-HALF F
SEP 1 - MAR 1	ANNUAL RYE AND TALL FESCUE ADD ABRUZZI RYE	70 LBS/ACRE 120 LBS/ACRE (NOV 1 - MAR 1) 25 LBS/ACRE	ALL TIMES. 12. PLACE TEMPORARY SEEDING ON ALL DISTURBED AF
CONSULT CONSERV	ATION ENGINEER OR SOIL CONSERVATION SERV	ICE FOR ADDITIONAL INFORMATION CONCERNING	IDLE 14 DAYS OR LONGER. 13. PERMANENT SURFACE STABILIZATION SHALL BE INS
OTHER ALTERNATIV DO WELL UNDER LO	ES FOR VEGETATION OF DENUDED AREAS. THE CAL CONDITIONS; OTHER SEEDING RATE COMBIN SEED ACCORDING TO OPTIMUM SEASON FOR DE	ABOVE VEGETATION RATES ARE THOSE WHICH NATIONS ARE POSSIBLE. SIRED PERMANENT VEGETATION. DO NOT ALLOW	AREAS WITHIN 14 DAYS AFTER FINAL GRADE HAS BE NECESSARY, FERTILIZE, WATER AND RESEED AS RE ESTABLISH AND MAINTAIN A VIGOROUS STAND OF G
		, UTHERWISE FESULE MAY BE SHADED UUT.	
	ADMIX	(TURES:	TREE PROTECTION NOTES:
		TURAL LIMESTONE: 2 TONS/ACRE ER: 1,000 LBS/ACRE - 10-10-10	1. TREE PROTECTION FENCING MUST BE IN PLACE PRICE
	SUPERPI	HOSPHATE: 500 LBS/ACRE - 20% ANALYSIS	DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF PERMIT. OR OBTAIN A GRADING PERMIT THEN TREE FENCING MUST BE IN DIACE DRIOD TO ANY DEMOLIT
	MULCH: 2	2 TONS/ACRE - SMALL GRAIN STRAW	DISTURBANCE
	ANCHOR	: ASPHALT EMULSION AT 300 GALS/ACRE	2. TREE PROTECTION FENCING SHALL INCLUDE WARNI IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO
			 PROTECTORA PARA LOS ARBOLES." 3. PROTECTION OF EXISTING VEGETATION: AT THE STA INVOLVING THE LOWERING OF EXISTING GRADE ARC
			STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL

		-
13. AT NO TO AC STALLED IN BEST CONV CLEAN	IME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED UMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND YANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE NG OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO	
THE INSTALLATION AND URES THROUGHOUT THE INSTALLATION OF THE INSTALLATION OF	WNSTREAM SYSTEM. ZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE .ED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR RATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS YADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS	STEWART
PREVENT THE ARE K IS RESPONSIBLE FOR IS INTROL METHODS AFTER 15. NT METHODS ARE REQUI	PT CLEAN FOR THE DURATION OF THE PROJECT. STRAW MULCH FOR TEMPORARY EROSION CONTROL IS ED, IT SHALL BE A MINIMUM THICKNESS OF 2 TO 3 INCHES.	RALEIGH, NC 27603 www.stewartinc.com T 919.380.8750 PROJECT #: C23050
ON CONTROL (ESC) PLAN IAGE DESIGN (E.G., SIZE IAGE MARKING (E.G., SIZE	I SLOPES MAY BE GRADED TO A MAXIMUM SLOPE OF 2:1 ONTAL: VERTICAL); CUT SLOPES SHALL BE LIMITED TO A MAXIMUM OF 1.5:1.	
6, CHANNELS, RETENTION 17. THE S HORIZ D THE CONSTRUCTION, G OF THESE ESC FILL M TRACTOR AND ESC SHALL NOT G	RFACE OF AREAS SLOPES STEEPER THAN 1 VERTICAL TO 4 NTAL THAT ARE TO RECEIVE INTERIM FILL SHALL BE PLOWED, NED, TILLED OR BROKEN UP PRIOR TO PLACING FILL SO THAT TERIAL WILL BOND WITH EXISTING . " SURFACE. INTERIM FILL 3E PLACED AS SPECIFIED FOR PERMANENT FILLS AND IN LIFTS FATER THAN 6"	Client:
RBANCE BEYOND THE 18. PROVI 11TTED. THE L.O.D. SHALL WETT HE DURATION OF ANNO OR AN OF AR	E DUST CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, G DOWN TO CONTROL DUST ON SITE, IN ORDER TO PREVENT ANCE/AND OR DAMAGE TO ADJACENT SITES. CALCIUM CHLORIDE OTHER CHEMICAL MATERIAL MAY NOT BE USED ON SUBGRADES AS TO BE SEEDED OR PLANTED.	BOBBITT 600 GERMANTOWN ROAD RALEIGH, NC 27607 CONTACT: NEAL CONLEY PHONE 919.800.4632
T BE CONSTRUCTED ING AND GRADING SO AS T TO DRAINAGE IZED	NT LADEN RUNOFF FROM EXCAVATIONS SHALL NOT BE PUMPED LY TO STORM DRAINAGE.	
THE MINIMUM 20. INSPE INSPE INSPE SHALL BE LIGGRADED CONTI	TOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) UALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD TIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION DUMEASURES AS DEEMED NECESSARY BY THE INSPECTOR	
AND MODIFIED TO S., ADDITIONAL SUMP CES, ETC.). AND THE ESC CES SUMP CES SUMP CE	RUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES CONFORM TO THE STANDARDS SET FORTH IN THE NORTH NA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL	
TINUED PROPER AINTAINED BY THE THE PROJECT. COPIES BE PROVIDED TO THE ND AFTER RAINS OF I SITE. BE DISTURBED FOR LIZED WITH THE CHING, PLASTIC E INSPECTED AND	IG LAND DESIGN MANUAL. ATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SPECTION PROGRAM: THE PERSON RESPONSIBLE FOR STURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT EACH PHASE OF THE PROJECT AND CONTINUED UNTIL INENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH 13A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE /ED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING VED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN SPREADSHEET FORM WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML	Vicinity map:
VITHIN FORTY EIGHT (48)		Ligging N Light
IVITIES:		CORNELIUS HARNETT BILL
14. AFTEF REMO MEASI ENGIN HELD 48 HOURS PRIOR ES. THE EROSION AND CONTRACTOR STABI	COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED, E ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING RES AND DISPOSE BY MEANS DEEMED ACCEPTABLE BY THE ER. SCHEDULE SITE INSPECTION. UPON APPROVAL BY THE N CONTROL INSPECTOR, REMOVE TEMPORARY EROSION DL MEASURES, SMOOTH AREA AND APPLY APPROPRIATE ZATION.	NORTH Seal: PRELIMINARY - DO NOT USE FOR CONSTRUCTION
A STORI S AND ALL REQUIRED 15. STORI 15. STORI THE C CONTI	WATER PERMIT INSPECTION REPORTS SHALL BE PERFORMED BY INTRACTOR UNTIL NOTIFIED OTHERWISE BY THE EROSION OL INSPECTOR.	Storest DAN
CONTROL INSPECTOR,	TOR REFERS TO LOCAL JURISDICTIONAL (NCDENR OR LOCAL) UALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD TIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION OL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR	15834 3.03.2025
ASURES AS REQUIRED. 2. CONS SHALL CARO RESOI	RUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES CONFORM TO THE STANDARDS SET FORTH IN THE NORTH NA DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RCES LAND QUALITY SECTION EROSION AND SEDIMENT CONTROL NG LAND DESIGN MANUAL	Scale:
_F FULL.3. NOTIFLL BE KEPT CLEAN AT3. NOTIFLL BE KEPT CLEAN ATSELF-LAND-AFTEFD AREAS THAT WILL BEPERM.NCGSAPPROINSTALLED FOR ALLFOLLCS BEEN REACHED. ASEXCELB REQUIRED TOHTTP://OF GRASS.INSTALLED FOR ALL	ATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SPECTION PROGRAM: THE PERSON RESPONSIBLE FOR ISTURBING ACTIVITIES IS REQUIRED TO INSPECT THE PROJECT EACH PHASE OF THE PROJECT AND CONTINUED UNTIL NENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH 13A-54.1 AND 15A NCAC 4B.0131 TO MAKE SURE THAT THE VED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING VED. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN SPREADSHEET FORM WWW.DLR.ENR.STATE.NC.US/PAGES/SEDIMENTATION_NEW.HTML	Project:
PRIOR TO ANY MADE OF A GRADING AREA	AT THE EDGE ON THE TREE ROOTS OUTSIDE OF THE TREE SAVE THIS SHALL OCCUR AT THE SAME TIME THAT OTHER EROSION	LILLINGTON FIRE STATION HWY 210
REE PROTECTION CONT OLITION, LAND FENC AWAY CONS	OL MEASURES ARE INSTALLED. THE TREE PROTECTION IG SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL RUCTION IN THE VICINITY OF THE TREES IS COMPLETE.	Issued for:
NO 4. NO S IDO ENTRAR / ZONA TRES PROT)RAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO ASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE CTED TREE AREA.	SITE PLAN SUBMITTAL
START OF GRADING 5. TREE AROUND A TREE OR INCH CAL CUT SHALL BE WHIC AREA	ROTECTION AREA: EQUALS ONE FOOT OF RADIUS FOR EVERY F DIAMETER OF EXISTING TREES, OR SIX FOOT RADIUS, EVER IS GREATER. NO DISTURBANCE ALLOWED WITHIN THIS	No. Date Description 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS
		Title: EROSION CONTROL NOTES
	TOTAL AREA OF DISTURBANCE <u>0.81 AC/ 35443.8 SF</u>	Project number: C23050 Sheet #: Issued Date: 10.25.2024 Drawn by: MTJ Approved by: RPL C4.00



²rojects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C4.00 Erosion Control Plan.dwg Apr 17, 2025 - 4:4

<u>онтерперато в село по по</u>	LINETYPE LEGEND: SYMBOL DESCRIPTION Image: symbol	<image/> <section-header><text><text><text><text></text></text></text></text></section-header>
BRIGHTSPEE DUKE ENERGY F/	CHECK DAM RIP RAP DISSIPATER Image: Strate in the property is a strategy in the property in the property in the property is a strategy in the property in the property in the property is a strategy in the property in thep	Vicinity map:
P HARNETT REGIONAL WATER		LILLINGTON FIRE STATION HWY 210



rojects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-C4.00 Erosion Control Plan.dwg Apr 17, 2025 - 4:

<u>w</u>	LINETYPE LEGEND: SYMBOL DESCRIPTION	<section-header><section-header><section-header><section-header><section-header><section-header><text></text></section-header></section-header></section-header></section-header></section-header></section-header>
<u>онw че онw ше онw ше онw ше онw че онw че онw ше онw ше онw ше онw ше онw понw понw понw понw понw понw понw</u> е он NC # 210 80' NCDOT R/W	EROSION CONTROL LEGEND: SYMBOL DESCRIPTION Image: product of the system	Client: BOBBITT 600 GERMANTOWN ROAD RALEIGH, NC 27607 CONTACT: NEAL CONLEY PHONE 919.800.4632
CONTERRA I BRIGHTSPEE DUKE ENERGY F/	 SEE SHEET C4.00 FOR EROSION CONTROL NOTES. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA EROSION CONTROL SPECIFICATIONS. 	Seal: PRELIMINARY - DO NOT USE FOR CONSTRUCTION CARO SEAL BL SEAL SEAL BL SEAL SEAL BL SEAL SEAL Scale: Scale:
		0 10 20 40 SCALE: 1"=20' NORTH Project: Illuington Fire statements LILLINGTON FIRE STATION HWY 210 Issued for: SITE PLAN SUBMITTAL No. Date Description 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS
P HARNETT REGIONAL WATER P =251.32		Title: Project number: C23050 Sheet #: Issued Date: 10.25.2024 Drawn by: MTJ Approved by: RPL C4.02



Projects/2023/C23050 - Lillington Fire Station/DWGS/2-CD/3-Sheets/C23050-C5.00 Grading & Storm Drainage Plan.dwg Apr 17, 2025 - 4:42p

	LINETYPE LEGEND:	
	STMDOL DESCRIPTION	
 影		
N N	PROPERTY LINE	
		SIEWARI
	BZ————————————————————————————————————	223 S. WEST ST., #1100 RALEIGH, NC 27603 FIRM LICENSE #: C-1051 www.stewartinc.com
		T 919.380.8750 PROJECT #: C23050
	ACCESSIBLE ROUTE	
	GRADING LEGEND:	RORRITT
MHO	SYMBOL DESCRIPTION	
		Client:
HOWHO	PROPOSED CATCH BASIN	BOBBITT 600 GERMANTOWN ROAD RAI FIGH_NC 27607
		CONTACT: NEAL CONLEY PHONE 919.800.4632
RVA	BC 44.00	
N TO TO	BW 44.00 TOP/BOTTOM OF WALL	Vicinity map:
	PROPOSED STORM DRAINAGE	
O, D	PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR	
<u> </u>	- 200 - EXISTING MAJOR CONTOUR	CARLTON BROWN RD
а — Мн(BRUCE JOHNSON RD
	NOTES:	
	1. SEE SHEET C0.10 FOR GENERAL AND GRADING NOTES.	US TO IN STORE
ь 		
7.67		NORTH
		Seal:
CONTERRA I		PRELIMINARY - DO NOT USE FOR CONSTRUCTION
BRIGHTSPEE		TH CARO
II E DUKE ENERGY F/		The and the
8		SEAL 15834
8" PVC TRENCH DRAIN PIPE AT 1% SLOPE MIN.		3.03.2025
		AUL LORENIN
TRENCH DRAIN		Scale:
AH 0		
		SCALE: 1" = 20' NORTH
		Project:
		LILLINGTON FIRE
		STATION HWY 210
		Issued for:
		SHE FLAN SUBIVITTAL
		No. Date Description 1 13 NOV 2024 ADDENDUM #1
		203 MAR 2025REVISION TO TOL SITE PLAN COMMENTS317 APR 2025REV'D PER OWNER COMMENTS
		<u></u> <u></u> <u></u>
D —		
HARNETT REGIONAL		
WATER		Title:
Р		Project number: C23050 Sheet #:
=251.32		Drawn by: MTJ
		Approved by: RPL VJIVU



LINE I YPE LEGEND:	
SYMBOL	DESCRIPTION
	LIMITS OF DISTURBANCE
	PROPERTY LINE
	EASEMENT
	– — SETBACK
BZ	RIPARIAN BUFFER (50')
ТР	TREE PROTECTION FENCE
	ACCESSIBLE ROUTE



HARM WA TE



	SYMBOL DESCRIPTION	<image/> <section-header><text><text><text><text><text></text></text></text></text></text></section-header>
HC Property Pre-developme Total Imper Total Perv Percent Imper Existing Imperv Existing Imperv Total Impervious Are Total Post-De Total Pervious Are Total Impervious Are Total Post-De	Area = 27,144 sf 0.6 ac	Scale: Scale: Calculation of the second of
	*Contingency Impervious Added for this Study = 0.10 AC Total Proposed Onsite Impervious (NC 21) =0 0.16 AC Residential Lot 1 Impervious Allocation = 0.19 AC Fire Station Lot 2 Impervious Allocation = 0.30 AC	STATION HWY 210 Issued for: SITE PLAN SUBMITTAL No. Date Description 1 13 NOV 2024 ADDENDUM #1 2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS



Projects/2023/C23050 - Lillington Fire Station/DWGS/2-CD/3-Sheets/C23050-C6.00 Utility Plan.dwg Apr 17, 2025 - 4:















UTILITY DETAILS I

Project number: C23050 Sheet #: Issued Date: 10.25.2024 Drawn by: Approved by:



ON BROWN RE









ects\2023\C23050 - Lillington Fire Station\DWGS\2-CD\3-Sheets\C23050-L7.00 Code Planting Plan.dwg Apr 17, 2025 - 4:4

RIVEWAY M REMAIN N L D.B. 4058, PG. 0708 N 0661–13–4854.000 2910 NC 210 N	LINETYPE LEGEND: SYMBOL	DESCRIPTION LIMITS OF DISTURBANCE PROPERTY LINE EASEMENT	
	BZ	SETBACK RIPARIAN BUFFER (50') TREE PROTECTION FENCE	JIC VVART 223 S. WEST ST., #1100 RALEIGH, NC 27603 T 919.380.8750 FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: C23050
		ACCESSIBLE ROUTE	
	NOTES:		BUBBITT
	1. SEE SHEET C0.10 FOR GENERAL AN	D PLANTING NOTES.	Client:
		S:	BOBBITT 600 GERMANTOWN ROAD BALEICH NC 27607
	BUFFERS/STREETSCAPE HWY 210 FRONTAGE: ROAD A FRONTAGE: PARKING LOT EAST: SOUTH PROPERTY LINE:	42 LF 145 LF 127 LF 219 LF	CONTACT: NEAL CONLEY PHONE 919.800.4632
			Vicinity map:
CDOT R/W			BRUCE JOHNSON RD BRUCE JOHNSON RD Grand Control of the state of the st
60' 1			Scale:
NTERRA F/O PIGHTSPEED IERGY F/O			0 10 20 40 SCALE: 1" = 20' NORTH
ARGARET MMORGAN MA .B. 3065, PG. 3065 I 0661–23–1590.000 CAULTON BROWN RD			Project: LILLINGTON FIRE STATION HWY 210
			Issued for: SITE PLAN SUBMITTAL No. Date Description 1 13 NOV 2024 ADDENDUM #1
			2 03 MAR 2025 REVISION TO TOL SITE PLAN COMMENTS <
			Title: CODE PLANTING PLAN
			Project number: C23050 Sheet #: Issued Date: 10.25.2024 Drawn by: L7.00 Approved by:







	Revisions	APPROVAL:
	#DateByDescription118 APR 2025MTVALUE ENGINEERING	DATE:
- G	TION DOCUMENT DEOR PERMITING	CERT. NO. 1253 04/28/2025 0
	D C S S S S S S S S S S S S S	DRAWN BY:
		CHK BY:
	Z Z	BDG, LCP
	WILLTUPE MARK LEGENDL MILRATINE (1.2, 3HOUR) MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 3 = 3 508 6 = 6* MILLTHICKNESS) 2 = 2 102 6 = 6* MILLTHICKNESS) 2 = 2 102 6 = 6* MILLTHICKNESS 6 = 6* MILLTHICKNESS 7 = 0 000 MILLTHICKNESS 7 = 0 000 MILLTHICKNESS 7 = 0 000 MILLTHICKNESS 7 = 0 000 MILLTHICKNESS 7 = 0 000	I FIRE STATION NO 3 RTH RTH CAROLINA
	STUD WALL REQUIREMENTS:	
	 - INSTALL BOX HEADERS AT INTERIOR STUD WALL OPENINGS 36" OR GREATER. MATCH STUD GAGE OF WALL. 36" - 60": 6" HEADER 60" - 84": 8" HEADER - AT WALLS 16'-0" HIGH OR GREATER, INSTALL BRIDGING AT 4'-0" O.C. - ALL INTERIOR WALLS TO BE INSULATED FULL HEIGHT OF THE WALL. - 3 5/8": 3 1/2" SOUND BATTS - 6": 5 1/2" SOUND BATTS -5/8" GWB FULL HEIGHT OF STUDS BOTH SIDES UNLESS OTHERWISE NOTED. - INSTALL 5/8" WATER-RESISTANT GWB AT ALL TOILET ROOM, SHOWER, AND BREAK ROOM WALLS, WITHIN 18" OF SINKS AND DRINKING FOUNTAINS, AND AT ALL APPARATUS WALLS. MINIMUM 8'-0" AFF. 	LILLINGT(2873 NC 210 h LILLINGTON, I
	- BRACE INTERIOR WALLS TO STRUCTURE ABOVE PER ASCE 7-10 SECTION 13.5.8 - PROVIDE DEFLECTION TRACK SUBMITTAL.	24 X 36 As indicated
	- SEE TYPICAL PARTITION SECTIONS.	10/21/2024
	- SEE WALL SECTIONS FOR EXTERIOR WALLS. - SILL GASKET AT EXTERIOR WALLS. SEE DETAIL.	24-0013
	- COORDINATE BLOCKING FOR CASEWORK AND EQUIPMENT. - STUD WALL DIMENSIONS ARE TO FACE-OF-STUD UNLESS OTHERWISE NOTED.	FLOOK PLAN
		A1.1 OF 13



OF 13



	# Data	Revisions		APPROVAL: DATE:
	1 18 APR 20	Description		TT A&E
/2"	\sim			B B CERT. NO. BAR STORE
				PALEIGH, MC
	}		L	S PAP
ACT CEILINGS ARE 10'-0" UNLESS N			Z	CERT. NO. 12353 04/28/2025 12367 04/28/2025
				BOBBITT A&E, PLLC 2400 Weston Parkway
			S <u>N</u>	Cary, North Carolina 27513
— — — — — — — — — — — — — — — — — — —				
E E				
			NOR	
}				COORDINATOR:
			PRO PRO	JGF DRAWN BY: MT
			API	CHK BY: BDG, LCP
			ŭ	
				3
				N N
				Z
	CEILING PLAN LE	GEND		LIO IO
		LED LIGHT FIXTURE		
		2x2 CALLA HEALTH ZONE ACT		S ON
		2X2 ACT 2X2 VINYL WRAPPED GWB		
		LED LIGHT FIXTURE		
		EXIT SIGN/LIGHT LED LIGHT FIXTURE		N ON N
		LED LIGHT FIXTURE		D 10 0 N 0 N
				C C N
		2X2 RETURN LOUVER		-LIN
		EXHAUST FAN		L 28 LIL
	•	SPRINKLER	_	24 X 36 1/8" = 1'-0"
	SEE INTERIORS, M FIRE PROTECTION ALL CEILING FIXT	IECHANICAL, ELECTRICAL, PLUMBING, AND I DRAWINGS FOR FULL COORDINATION OF URES		10/21/2024
				REFLECTED
				UF 13















FIELD BRICK
(2) FIELD BRICK SOLDIER COURSES
FIELD BRICK
WALL FLASHING
1 AWNING AT 1 1/2" = 1'-0"



DOOR AND WINDOW GLAZING AND INSULATION GENERAL NOTES:

GLASS @ STOREFRONT & HM DOOR [VITRO Solarban R67 (2) + Clear =

basis of design]: - 1" IGU @ WINDOWS = U-0.28 - 3/4" IGU @ DOORS: = U-0.40

HM EXTERIOR DOORS: R-2.5 Polyurethane core

"T" DENOTES TEMPERED GLASS















OF 13



odesk Docs://Lillington Fire Station No 3/24-0013 Lillington Fire Station No 3 R24.rvt

2025 4:20:44 PM

	NIC = N0 1. 2.	ot in c Wall f Typ. H	CONTRACT FINISH - LEVEL 4 ARDWARE FOR	I (TYP.) CABINETR	Y & DOORS			LUXURY VIN LVT-1:
	un .	M				~		
-	ACOUSTI	CAL CEI	LING TILE (ACT):					
	ACT-1:		MANUFACTURER: COLLECTION:	ARMSTRONO DUNE	3			
			COLOR: ITEM #:	WHITE 1773B				PT-1:
			SIZE: INSTALLATION:	24"x24" 15/16" SQUA	RE LAY-IN			
	REP: CAR	EY B. M	LOCATION: CMAHAN - CBMCMA	KITCHEN/DA	YROOM RONGCEILINGS.COM - 919.20	1.1196		
	ACT-2:		MANUFACTURER:	ARMSTRON	3			REP: NANC)
			COLLECTION: COLOR: ITEM #1	CALLA HEAL WHITE 2228	TH ZONE AIRASSURE			PT-2:
			SIZE: INSTALLATION	2220 24"x24" 15/16" SQUA	RE LAY-IN			
			GRID: LOCATION:	WHITE KITCHEN/DA	YROOM			
	REP: CAR	EY B. M	CMAHAN - CBMCMA	HAN@ARMST	RONGCEILINGS.COM - 919.20	1.1196		
	ACT-3:		MANUFACTURER: COLLECTION:	ARMSTRONO	3 NE			REP: NANC)
			UDLOR: ITEM #: SIZE:	vvHITE 673 24"x24"				PT-3:
			INSTALLATION: GRID:	15/16" SQUA WHITE ALUN	RE LAY-IN /IINUM GRID			
	REP: GAB	ΕY ΒΜ(LOCATION: CMAHAN - CBMCMA	SHOWERS HAN@ARMST	RONGCEILINGS-ÇOM-919,20	1,1196,	$\sim\sim\sim\sim$	\downarrow
	CONCRET		C):					
$\left\{ \right\}$	CONC-1:		PER STRUCTURA	L PLANS				
	CAPDET		·····	·····	·····			
	CPT-1:	<u>071):</u>	MANUFACTURFR	MOHAWK				
	J. 1 1.		COLLECTION: STYLE:	SUBSTRATU NATURAL NE	M ETWORKS BT597			
			COLOR: SIZE:	868 YARROV 24"x24"	V			REP: NANCY
			INSTALLATION: LOCATION:	QUARTER TU PER FINISH	JRN GRID SCHCEDULE TIONS			PT-5:
	REP: LOR	I ZETO -	<u>SEE IRAN FOR FL</u> LORI_ZETO@MOH/	AWKIND.COM	- 919.302.6652			
	CPT-2:		MANUFACTURER: COLLECTION:	MOHAWK REWILDED F	REFUGE			
			STYLE: COLOR:	BT604 CITY (978 BENTWA	CANOPY			
			SIZE: INSTALLATION:	12"x36" HERRINGBO	NE			REP: NANCY
	REP: I OR	I ZETO -	SEE TRAN FOR FL	OOR TRANSI	5000EDULE <u>TIONS</u> - 919,302.6652			PI-6:
\sim		~~~~				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~	1
$\left\{ \right\}$								В
								PT-7 :
								B
-								B
کے ا ک								
- 								R
$\left\{ \right\}$								K
	<u> </u>	<u> </u>	·····	····	······	······		<u>}</u>
		#		AME	FLOOR FINISH	WALL BASE		
		101	LOBBY		CPT-1	RB-1	P-1, P-4, 5	SEE FINISH F
		102	DISPATCH		CPT-2	RB-1 RB-1	P-5, P-3 P-5, P-3	
		104 105	UNISEX KITCHEN/DAYF	ROOM	PT-2 LVT-1	STB-1, PT-8 RB-1	P-2, PT-3 P-1, P-4,	, PT-7, SEE 5/ SEE FINISH F
						CTD 1	D 2 DT 2	DT 6 DT 7 T
		106 107	BATH 2 BUNKS #3		CPT-2	RB-1	P-2, PT-3	P-3, SEE FINI

109 BUNKS #1

110 BATH 1

112 FITNESS

151 ELEC

154 DECON

155 BATH 3

201 MEZZANINE

113 CORRIDOR

150 APPARATUS

153 TOOL ROOM

111 LAUNDRY / JANITOR

152 CASCADE/ STORAGE

CPT-2

CONC-1

LVT-1

LVT-1

CONC-1

CONC-1

CONC-1

CONC-1

PT-2, PT-1 @ SHOWER STB-1

CONC-1, CONC-2 N/A

CONC-1, CONC-2

PT-5, PT-4 @ SHOWER STB-1, PT-9 P-5 EPOXY

			# Date By Description 1 18 APR 2025 MT VALUE ENGINEERING	APPROVAL: DATE:	
				CERT. NO BUSS CERT. NO 52593	PLLC BLLC
VINYL TILE (LVT): MANUFACTURER: MOHAWK COLLECTION: SECOND HOME WOOD COLOR: ELEVATOR GRAY WEAR LAYER: 20 mil SIZE: 8"x48" INSTALLATION: STAGGER LOCATION: PER FINISH SCHEDULE <u>SEE TRAN FOR FLOOR TRANSITIONS</u> 21 ZETO - LORL ZETO@MOHAWKIND COM - 919 302 6652	PT-8 (BULLNOSE): MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 3"x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: 64" AFF PER FINISH SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-9 (BULLNOSE): MANUFACTURER: BEST TILE COULECTION: COVENTRY	FLOOR TRANSITION (TRAN): TRAN-1: MANUFACTURER: MOHAWK COLLECTION: UNIVERSAL TRANSITIONS STYLE: CRA02 COLOR: 966 PEPPER GRAY LOCATION: TRANSITION BETWEEN CPT AND LVT REP: LORI ZETO - LORI_ZETO@MOHAWKIND.COM - 919.302.6652 TRAN-2: MANUFACTURER: MOHAWK COLLECTION: REDUCERS		ALEIGH CERT. NO 12353 04/28/20 PALEIGH	AND
AN TILE (PT): MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 2'x2" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: SHOWER FLOOR PER FINISH SCHEDULE ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 12'x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: GRID LOCATION: BATHROOM FLOORS PER SCHEDULE <u>SEE TRAN FOR FLOOR TRANSITIONS</u> ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 3'x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 3'x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: OCEAN SIZE: 2'x2" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: COVENTRY COLOR: OCEAN SIZE: 2'x2" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: SHOWER FLOOR BATHROOM 3	COLOR: OCEAN SIZE: 3*X24* FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: 64* AFF PER FINISH SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 843.323.5768 SCHLUTER TILE BASE (STB): STB-1: (COVE) MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: DILEX-EHK COLOR: TSGB GREIGE LOCATION: COVE BASE REP: AMANDA SCWARZ - ASHWARZ@GSTILE.COM - 843.323.5768 LAMINATE (LAM): LAM-1: MANUFACTURER: WILSONART COLLECTION: STANDARD LAMINATE COLOR: D92-80 DOVE GREY FINISH: MATTE LOCATION: CASEWORK REP: APRIL BRICKLE - BRICKLA@WILSONART.COM - 540.537.3431 LAM-2: MANUFACTURER: WILSONART COLLECTION: STANDARD LAMINATE COLOR: 4924-38 WHITE CARRARA FINISH: FINE VELVET LOCATION: COUNTERTOPS REP: APRIL BRICKLE - BRICKLA@WILSONART.COM - 540.537.3431 LAM-2: MANUFACTURER: WILSONART COLLECTION: STANDARD LAMINATE COLOR: 4924-38 WHITE CARRARA FINISH: FINE VELVET LOCATION: COUNTERTOPS REP: APRIL BRICKLE - BRICKLA@WILSONART.COM - 540.537.3431 NUBBER BASE (RB): RB-1: MANUFACTURER: ROPPE COLLECTION: FINNACLE WITH STANDARD TOE COLCR: 175 SLATE SIZE: 4* LOCATION: THROUGHOUT PER PLANS	STYLE: CRA07 COLOR: 966 PEPPER GRAY LOCATION: TRANSITION BETWEEN LVT AND CONCRETE REP: LORIZETO - LORIZETO@MOHAWKIND.COM - 919.302.6652 TRAN-3: MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: RENO-U COLOR: AE SATIN NICKEL LOCATION: TRANSITION BETWEEN LVT AND TILE REP: AMANDA SCWARZ - ASHWARZ@GSTILE.COM - 843.323.5768 PAINT (P): P-1: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7646 FIRST STAR LOCATOR #: 256-C6 FINISH: EGGSHELL (EPOXY @ APPARATUS) LOCATION: THROUGHOUT PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-2: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9143 STARDEW LOCATOR #: 221-C3 FINISH: EGGSHELL LOCATIOR: BATHROUMS, BUNKROOMS, LAUNDRY REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-3: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9140 BLUSTERY SKY LOCATIOR #: 221-C3 FINISH: EGGSHELL LOCATION: BATHROUMS, BUNKROOMS, LAUNDRY REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-3: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9140 BLUSTERY SKY LOCATOR #: 221-C3 FINISH: EGGSHELL LOCATION: BATHROOMS, BUNKROOMS, LAUNDRY REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-3: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9140 BLUSTERY SKY LOCATOR #: 221-C3 FINISH: EGGSHELL LOCATION: WITO 64' AFF PER FINISH FLOOR PLAN REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-4: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9140 BLUSTERY SKY LOCATOR #: 221-C3 FINISH: EGGSHELL LOCATION: UP TO 64' AFF PER FINISH FLOOR PLAN REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-4: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9136 LULLABY LOCATOR #: 221-C1 FINISH: EGGSHELL LOCATIOR: UP TO 64' AFF PER FINISH FLOOR PLAN REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410		BOBBITT A& 2400 Weston F Carv. North Caro NODOO DO BABLANDA DO CONCUMENT JULIAN RESERVED. DRAWN JGF	E, PLLC ^{'arkway} ina 27513 ATOR: BY: Y: CP
LOCATION: SHOWER FLOOR BATHROOM 3 ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: OCEAN SIZE: 12"x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: GRD LOCATION: BATHROOM 3 FLOORS AND WALLS <u>SEE TRAN FOR FLOOR TRANSITIONS</u> CY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: OCEAN SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: PINE GREEN SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE INSTALLATION: PER FINISH FLOOR PLAN & SCHEDULE ICY PETERS - NPETERS@BESTTILE.COM - 919.986.6256	LOCATION: THROUGHOUT PER PLANS REP: BLAIR BRYSON - BBRYSON@WMBIRD.COM - 980-288-9138 WOOD STAIN (ST): Provide samples for prefinished door approval ST-1: MANUFACTURER: MASONITE ARCHITECTURAL COLLECTION: ASPIRO SERIES COLOR: NUTMEG SPECIES: ROTARY WHITE BIRCH LOCATION: DOORS PER FINISH SCHEDULE TRIM-1: MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: JOLLY COLOR: TSBG GREIGE LOCATION: DACKSPLASH TRIM @ KITCHEN REP: PAULINE HABER - PHABER@GSTILE.COM - 843.323.5768 TRIM-2: MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: JOLLY COLOR: TSBG GREIGE LOCATION: OUT TILE CORNERS PER FINISH SCHEDULE REP: PAULINE HABER - PHABER@GSTILE.COM - 843.323.5768 FIBER REINFORCED PLASTIC (FRP): FRP-1 MANUFACTURER: CRANE COMPOSITE COLLECTION: GLASBORD STYLE: SMOOTH COLOR: 636 GRAY LOCATION: PER FINISH SCHEDULE NOTE: PROVIDE TOP J-TRIM & VERTICAL MEETING TRIMS	REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-5: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW769 SUVERPLATE LOCATOR #: 239-C5 FINISH: EGGSHELL (EPOXY PER FINISH FLOOR PLAN, SEMI-GLOSS @ DOORFRAMES LOCATION: BATH 3, DOOR FRAMES/TRIM PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-6: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7005 PURE WHITE LOCATOR #: 255-C1 FINISH: FLAT - DRYFALL APPLICATION LOCATION: EXPOSED CEILING PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 OWNER SIGNATURE - FINISHES NOT FINAL UNTIL SIGNED OFF BY OWNER		N FIRE STATION NO 3	ORTH CAROLINA
ROOM FI	INISH SCHEDULE ASEWORK	DOOR SWITCH/ OUTLET FRAMES PLATES SPECIAL #			ON, NO
GWB (P-1) ACT-1 LAM 5/A8.1 ACT-1 LAM FLOOR PLAN ACT-2 LAM , TRIM-2, SEE 6/A8.1 ACT-3 LAM uish FLOOR PLAN GWB (P-1) ACT-1 LAM uish FLOOR PLAN GWB (P-1) ACT-1 Image: Comparison of the state of t	ST-1 -2 ST-1 -1, LAM-2 ST-1	P-5 WHITE 102 P-5 WHITE TRAN-1 103 P-5 WHITE 104 P-5 WHITE 105 P-5 WHITE 106 P-5 WHITE TRAN-3 106 P-5 WHITE TRAN-1 107 P-5 WHITE TRAN-1 107 P-5 WHITE TRAN-1 108 P-5 WHITE TRAN-1 108 P-5 WHITE TRAN-1 109 P-5 WHITE TRAN-1 109 P-5 WHITE TRAN-2 110 P-5 WHITE TRAN-2 112 P-5 WHITE TRAN-2 112 P-5 GALVANIZED SEAL-1 150 P-5 GALVANIZED SEAL-1 151 P-5 GALVANIZED SEAL-1 153 P-5 GALVANIZED SEAL-1 154 P-5 GALVANIZED SEAL-1 155 I GALVANIZED SEAL-1 201		NIJJ 24 X 3 12" = 1 10/21/20 24-00* FINISH SCH A8 OF	13 LDULE

				# 1	DateByDescription18 APR 2025MTVALUE ENGINEERING	DATE:
	<u>OR FINISH LEGEN</u>	<u>ID</u>				B Start CERT. NO. DUP S2593
	DORS	LUXURY VINYL TILE (LVT): LVT-1: MANUFACTURER: MOHAWK COLLECTION: SECOND HOME WOOD COLOR: ELEVATOR GRAY WEAR LAYER: 20 mil SIZE: 8"x48" INSTALLATION: STAGGER LOCATION: PER FINISH SCHEDULE	PT-8 (BULLNOSE): MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 3"x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: 64" AFF PER FINISH SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256	FLOOR TRANSITION (TRAN): TRAN-1: MANUFACTURER: MOHAWK COLLECTION: UNIVERSAL TRANSITIONS STYLE: CRA02 COLOR: 966 PEPPER GRAY LOCATION: TRANSITION BETWEEN CPT AND LVT REP: LORI ZETO - LORI_ZETO@MOHAWKIND.COM - 919.302.6652	L	C P A P C P A P C ERT. NO. 12353 Q4/28/2025 Q4/28/2025
		SEE TRAN FOR FLOOR TRANSITIONS REP: LORI ZETO - LORI_ZETO@MOHAWKIND.COM - 919.302.6652	PT-9 (BULLNOSE): MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: OCEAN SIZE: 3"x24"	TRAN-2: MANUFACTURER: MOHAWK COLLECTION: REDUCERS STYLE: CRA07 COLOR: 966 PEPPER GRAY		BOBBITT A&E, PLI
	<i>1-</i> IN	PT-1: MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 2"x2"	FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: 64" AFF PER FINISH SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 843.323.5768	COLON: TRANSITION BETWEEN LVT AND CONCRETE REP: LORI ZETO - LORI_ZETO@MOHAWKIND.COM - 919.302.6652 TRAN-3: MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: RENO-U	5 S	Cary, North Carolina 275
	M CEILINGS.COM - 919.201.1196 NE AIRASSURE	FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: SHOWER FLOOR PER FINISH SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-2: MANUFACTURER: BEST TILE COLLECTION: COVENTRY 201 OD OCTION:	SCHLUTER TILE BASE (STB): STB-1: (COVE) MANUFACTURER: SCHLUTER SYSTEMS COLLECTION: DILEX-EHK COLOR: TSGB GREIGE LOCATION: COVE BASE	COLOR: AE SATIN NICKEL LOCATION: TRANSITION BETWEEN LVT AND TILE REP: AMANDA SCWARZ - ASHWARZ@GSTILE.COM - 843.323.5768		RESERVED.
	-IN И CEILINGS.COM - 919.201.1196	COLOR: COTTON SIZE: 12"x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: GRID LOCATION: BATHROOM FLOORS PER SCHEDULE <u>SEE TRAN FOR FLOOR TRANSITIONS</u> REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256	REP: AMANDA SCWARZ - ASHWARZ@GSTILE.COM - 843.323.5768	P-1: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7646 FIRST STAR LOCATOR #: 256-C6 FINISH: EGGSHELL (EPOXY @ APPARATUS) LOCATION: THROUGHOUT PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-2: MANUFACTURER: SHERWIN WILLIAMS	D FOR	BITT. ALL RIGHTS F
	(-IN <u>GRID</u> ;CEILINGS:COM-919,201,1196,	PT-3: MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: COTTON SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS	FINISH: MATTE LOCATION: CASEWORK REP: APRIL BRICKLE - BRICKLA@WILSONART.COM - 540.537.3431 LAM-2: MANUFACTURER: WILSONART COLLECTION: STANDARD LAMINATE COLOR: 4924-38 WHITE CARRARA FINISH: FINE VELVET	COLOR: SW9183 STARDEW LOCATOR #: 221-C3 FINISH: EGGSHELL LOCATION: BATHROOMS, BUNKROOMS, LAUNDRY REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-3: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9140 BLUSTERY SKY	PROVE	COORDINATOR JGF DRAWN BY: SR
		LOCATION: PER FINISH FLOOR PLAN & SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-4: MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: OCEAN SIZE: 2"x2" FINISH: MATTE	LOCATION: COUNTERTOPS REP: APRIL BRICKLE - BRICKLA@WILSONART.COM - 540.537.3431 RUBBER BASE (RB): RB-1: MANUFACTURER: ROPPE COLLECTION: PINNACLE WITH STANDARD TOE COLOR: 175 SLATE	LOCATOR #: 221-C5 FINISH: EGGSHELL LOCATION: UP TO 64" AFF PER FINISH FLOOR PLAN REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-4: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW9136 LULLABY LOCATOR #: 221-C1 FINISH: EGGSHELL	ONS AA	CHK BY: BDG, LCP
	RID EDULE	GROUT: EPOXY LATICRETE - DUSTY GREY LOCATION: SHOWER FLOOR BATHROOM 3 REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-5: MANUFACTURER: BEST TILE COLLECTION: COVENTRY OCLORED OCTON	SIZE: 4" LOCATION: THROUGHOUT PER PLANS REP: BLAIR BRYSON - BBRYSON@WMBIRD.COM - 980-288-9138 WOOD STAIN (ST): Provide samples for prefinished door approval	P-5: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7649 SILVERPLATE LOCATOR #: 239-C5	C C	
	02.6652 E Y DULE	COLOR: OCEAN SIZE: 12"x24" FINISH: MATTE GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: GRID LOCATION: BATHROOM 3 FLOORS AND WALLS <u>SEE TRAN FOR FLOOR TRANSITIONS</u> REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-6: MANUFACTURER: BEST TILE	ST-1: MANUFACTURER: MASONITE ARCHITECTURAL COLLECTION: ASPIRO SERIES COLOR: NUTMEG SPECIES: ROTARY WHITE BIRCH LOCATION: DOORS PER FINISH SCHEDULE TILE TRIM (TRIM): TDIM 1: MANUFACTURED: SOULUTED SYSTEMS	FINISH: EGGSHELL (EPOXY PER FINISH FLOOR PLAN, SEMI-GLOSS @ DOORFRAMES) LOCATION: BATH 3, DOOR FRAMES/TRIM PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410 P-6: MANUFACTURER: SHERWIN WILLIAMS COLOR: SW7005 PURE WHITE LOCATOR #: 255-C1 FINISH: FLAT - DRYFALL APPLICATION LOCATION: EXPOSED CEILING PER FINISH SCHEDULE REP: STEVE GOODE - STEVEN.R.GOODE@SHERWIN.COM - 980.207.9410		03
	2.6652	COLLECTION. COVENTRY COLOR: OCEAN SIZE: 3"x16" FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256 PT-7: MANUFACTURER: BEST TILE COLLECTION: COVENTRY COLOR: PINE GREEN SIZE: 2"v16"	TRIM-1. MANOPACTORER. SCHLUTER STSTEMS COLLECTION: JOLLY COLOR: TSBG GREIGE LOCATION: BACKSPLASH TRIM @ KITCHEN REP: PAULINE HABER - PHABER@GSTILE.COM - 843.323.5768 TRIM-2: MANUFACTURER: SCOLLECTION: JOLLY COLOR: TSBG GREIGE LOCATION: JOLLY COLOR: TSBG GREIGE LOCATION: OUT TILE CORNERS PER FINISH SCHEDULE REP: PAULINE HABER - PHABER@GSTILE.COM - 843.323.5768	OWNER SIGNATURE -		
ROOM FINISH SCHEDULE ROOM FINISH MALLS ODOR FINISH BOOR FINISH COLSPAN FINISH BOOR FINISH <td></td> <td>SIZE: 3 X 10 FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256</td> <td>FIBER REINFORCED PLASTIC (FRP): FRP-1 MANUFACTURER: CRANE COMPOSITE COLLECTION: GLASBORD STYLE: SMOOTH COLOR: 636 GRAY LOCATION: PER FINISH SCHEDULE NOTE: PROVIDE TOP J-TRIM & VERTICAL MEETING TRIMS</td> <td><u>FINISHES NOT FINAL UNTIL SIGNED OFF BY OWNER</u></td> <td></td> <td>FIRE ST</td>		SIZE: 3 X 10 FINISH: GLOSSY GROUT: EPOXY LATICRETE - DUSTY GREY INSTALLATION: SEE ELVATIONS LOCATION: PER FINISH FLOOR PLAN & SCHEDULE REP: NANCY PETERS - NPETERS@BESTTILE.COM - 919.986.6256	FIBER REINFORCED PLASTIC (FRP): FRP-1 MANUFACTURER: CRANE COMPOSITE COLLECTION: GLASBORD STYLE: SMOOTH COLOR: 636 GRAY LOCATION: PER FINISH SCHEDULE NOTE: PROVIDE TOP J-TRIM & VERTICAL MEETING TRIMS	<u>FINISHES NOT FINAL UNTIL SIGNED OFF BY OWNER</u>		FIRE ST
FLOOR FINSH WALL BASE WALL BASE WALL SASE CELLING CASEWORK DOOR FINSH DOOR SWTGH OUTLET SPECIAL # 12 R51 P5, P5 OWIG P11 ACT-1 ST-1 P5 WHTE TRAN-1 101 2 R51 P5, P5 OWIG P21 ACT-1 ST-1 P5 WHTE TRAN-1 101 1 R51 P5, P5 OWIG P21 ACT-1 ST-1 P5 WHTE 103 1 R51 P5, P5 OWIG P1 ACT-1 ST-1 P5 WHTE 103 1 R51 P5, P5 WHTE TRAN-1 105 2 R51 P1, P2, P3, SEE FINSH FLOOR PLAN OWIG P11 ACT-1 ST-1 P5 WHTE TRAN-1 105 2 R51 P1, P2, P3, SEE FINSH FLOOR PLAN OWIG P11 ACT-1 ST-1 P5 WHTE TRAN-1 107 2 R51 P1, P2, P3, SEE FINSH FLOOR PLAN OWIG P11 ACT		ROO	M FINISH SCHEDULE			
2 RB-1 P-5, P-3 GWB (P-1) ACT-1 IACT-1	FLOOR FINISHWALL BASE1RB-1P-1, P-4, S	WALLS SHLDS CEILING SEE FINISH FLOOR PLAN GWB (P-1) ACT-1	CASEWORK	DOOR FRAMESSWITCH/ OUTLET PLATESSPECIAL#P-5WHITETRAN-1101		
IC-1N/AP-1, P-5 EPOXYOPEN, P-6P-5 SEMI-GLOSSP-5GALVANIZEDSEAL-1151IC-1N/AP-1 EPOXYOPEN, P-6P-5 SEMI-GLOSSP-5GALVANIZEDSEAL-1152C-1N/AP-1 EPOXYOPEN, P-6P-5 SEMI-GLOSSP-5GALVANIZEDSEAL-1153C-1N/AP-1 EPOXYOPEN, P-6P-5G	2 RB-1 P-5, P-3 2 RB-1 P-5, P-3 STB-1, PT-8 P-2, PT-3, 1 RB-1 P-1, P-4, S , PT-1 @ SHOWER STB-1 P-2, PT-3, 2 RB-1 P-1, P-2, F -2 RB-1 P-1, P-2, F -1 RB-1 P-2, PT-3, -2 RB-1 P-2, PT-3, -1 RB-1 P-2, PT-4, S -1 RB-1 P-1, F-4, S -1 RB-1 P-1, F-1, FRP- -1, CONC-2 N/A P-1, P-5 E <td>GWB (P-1)ACT-1PT-7, SEE 5/A8.1ACT-1SEE FINISH FLOOR PLANACT-2PT-6, PT-7, TRIM-2, SEE 6/A8.1ACT-3P-3, SEE FINISH FLOOR PLANGWB (P-1)P-3, SEE FINISH FLOOR PLANGWB (P-1)P-4, PT-7, TRIM-2, SEE 6/A8.1ACT-1PT-6, PT-7, TRIM-2, SEE 6/A8.1ACT-3ACT-1ACT-1SEE FINISH FLOOR PLANGWB (P-1)ACT-1ACT-1SEE FINISH FLOOR PLANGWB (P-1)POXY, FRP-1OPEN, P-6</td> <td>AM-2 ST-1 AM-2 ST-1 AM-1, LAM-2 ST-1 ST-1 ST-1 MANUF., P-5 SEMI-GLOSS@ PERSONNEL DOORS</td> <td>P-5 WHITE 102 P-5 WHITE TRAN-1 103 P-5 WHITE 104 P-5 WHITE 105 P-5 WHITE 105 P-5 WHITE 106 P-5 WHITE TRAN-3 106 P-5 WHITE TRAN-1 107 P-5 WHITE TRAN-1 108 P-5 WHITE TRAN-1 109 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 111 P-5 WHITE TRAN-2 112 P-5 WHITE TRAN-2 113 MANUF. GALVANIZED SEAL-1 150</td> <td></td> <td>24 X 36 12" = 1'-0"</td>	GWB (P-1)ACT-1PT-7, SEE 5/A8.1ACT-1SEE FINISH FLOOR PLANACT-2PT-6, PT-7, TRIM-2, SEE 6/A8.1ACT-3P-3, SEE FINISH FLOOR PLANGWB (P-1)P-3, SEE FINISH FLOOR PLANGWB (P-1)P-4, PT-7, TRIM-2, SEE 6/A8.1ACT-1PT-6, PT-7, TRIM-2, SEE 6/A8.1ACT-3ACT-1ACT-1SEE FINISH FLOOR PLANGWB (P-1)ACT-1ACT-1SEE FINISH FLOOR PLANGWB (P-1)POXY, FRP-1OPEN, P-6	AM-2 ST-1 AM-2 ST-1 AM-1, LAM-2 ST-1 ST-1 ST-1 MANUF., P-5 SEMI-GLOSS@ PERSONNEL DOORS	P-5 WHITE 102 P-5 WHITE TRAN-1 103 P-5 WHITE 104 P-5 WHITE 105 P-5 WHITE 105 P-5 WHITE 106 P-5 WHITE TRAN-3 106 P-5 WHITE TRAN-1 107 P-5 WHITE TRAN-1 108 P-5 WHITE TRAN-1 109 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 110 P-5 WHITE TRAN-3 111 P-5 WHITE TRAN-2 112 P-5 WHITE TRAN-2 113 MANUF. GALVANIZED SEAL-1 150		24 X 36 12" = 1'-0"
	C-1, CONC-2 N/A P-1, P-5 E C-1 N/A P-1 EPOX IC-1 N/A P-1 EPOX C-1 N/A P-1 EPOX	POXY OPEN, P-6 Y OPEN, P-6	P-5 SEMI-GLOSS P-5 SEMI-GLOSS P-5 SEMI-GLOSS P-5 SEMI-GLOSS P-5 SEMI-GLOSS P-5 SEMI-GLOSS	P-5 GALVANIZED SEAL-1 151 P-5 GALVANIZED SEAL-1 152 P-5 GALVANIZED SEAL-1 153 P-5 GALVANIZED SEAL-1 154 P-5 GALVANIZED SEAL-1 155 QALVANIZED SEAL-1 155 GALVANIZED SEAL-1 201		10/21/2024 24-0013 FINISH SCHEDU






GENERAL

- 1. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDIT
- THE GENERAL NOTES.
 DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.
 WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY
- REFERENCED ON THE DRAWINGS.
- WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.
 IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITIN
- TO THE SCHEDULED BID DATE. 6. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREP
- TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
 THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.
- 8. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.

CONTRACTOR RESPONSIBILITY

- 1. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SO RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS FOLLOWED STRICTLY.
- 2. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL STRUCTURAL WORK IS COMPLETE.
- 3. ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO EN LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQ THE HANGING SYSTEM TO SUPPORT THE COMPONENTS.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL F SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.
- PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHAI ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTA TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPEN WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- 6. ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.
- 7. ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT N PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LO CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
- 8. SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGLISEMENT IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVINOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT AR LIMITED TO:
- SPECIALTY FOUNDATION SYSTEM
 POST-TENSIONED CONCRETE (LAYOUT AND STRESSING)
- STRUCTURAL PRECAST CONCRETE
- □ ARCHITECTURAL PRECAST CONCRETE
- STRUCTURAL STEEL (CONNECTIONS)
 PREFABRICATED METAL BUILDING
- STEEL STAIRS AND RAILINGS
- STEEL JOISTS AND STEEL JOIST GIRDERS
- □ ROOF ANCHORS
- NON-LOAD BEARING COLD-FORMED STEEL
- LOAD BEARING COLD-FORMED STEEL
 LIGHT GAUGE COLD-FORMED STEEL TRUSSES
- PREFABRICATED WOOD TRUSSES
- ANCHOR TIE-DOWN SYSTEM FOR WOOD SHEAR WALLS
- THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. SEE STATEMENT OF S
 INSPECTIONS FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL COORDINATE WITH SPECIAL INSPECTOR ALL WORK REQUIRING SPECIAL INSF
 AND TESTING.

<form></form>	DESIGN CRITERIA	CONCRETE REINFORCING STEF!	
<form></form>			STE
<text><text><text></text></text></text>	 PROJECT LOCATION: 2873 NC-210 LILLINGTON, NC 27546 APPLICABLE CODES: 	1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).	223 S. WEST RALEIO
<form></form>	2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10)	2. CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION): CLASS A - FOOTINGS NWC 3,000 PSI	T 919 FIRM LIC
<form></form>	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)	CLASS C - INTERIOR SLABS ON GRADE NWC 4,000 PSI CLASS E - INTERIOR LWC SLABS ON METAL DECK LWC 4 000 PSI	INTH TH
	NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)	CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPINGS NWC 4,500 PSI CLASS I INTEDIOD METAL DAN STAIDS (LANDINGS NWC 2,500 PSI	NOT ROFF
<form></form>	A. DEFLECTION: IV	3. REINFORCING:	In and A
<form></form>	FLOOR FRAMINGL/240 FOR TOTAL LOADING (1.50" FOR 30' SPAN), L/360 FOR LIVE LOADING (1.00" FOR 30' SPAN)ROOF FRAMINGL/180 FOR TOTAL LOADING (2.00" FOR 30' SPAN), L/240 FOR LIVE LOADING (1.50" FOR 30' SPAN)	TYPICAL - ASTM A615, GRADE 60 REINFORCING TO BE WELDED - ASTM A706	A CHO
<form></form>	MEMBERS SUPPORTING BRICK STRUCTURAL DRIFT LIMITS L/600 FOR LIVE LOADING (0.60" FOR 30' SPAN) WIND, H/600 (USING V = 0 MPH AND MEAN RECURRENCE INTERVAL OF 50 YEARS)	DEFORMED BAR ANCHORS - ASTM A496 WELDED WIRE FABRIC - ASTM A1064 (FLAT SHEFTS ONLY)	
	SEISMIC, PER ASCE 7 12.12	4. GROUT UNDER BASE PLATES TO BE HIGH STRENGTH (5,000 PSI), NON-SHRINK.	09-19
<form></form>	D. LIVE LOADS: UNIFORM (PSF) CONCENTRATED (LB)	 b. REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACT 318 OR CRST STANDARDS. 6. LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM. 	BOBBITT
<form> Martin B. S. S.</form>	PUBLIC AREAS, LOBBIES 100 2,000 RESIDENTIAL 40 NA	7. CLEAR COVER FROM FACE OF CONCRETE: CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING) -	Cary, North C
	ROOF 20 300 STAIRS 100 300	CONCRETE CAST AGAINST AND EXPOSED TO EARTH 3" CONCRETE EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE	
<form></form>	STORAGE 125 NA	CONCRETE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS	
<form> Market Market Market</form>	$\begin{array}{ll} \text{GROUND SNOW LOAD.} \\ \text{GROUND SNOW LOAD} \\ p_g = 10 \text{ PSF} \end{array}$	4" SLABS 6x6-W2.1xW2.1	
<form></form>	IMPORTANCE FACTOR $I_s = 1.2$ SNOW EXPOSURE FACTOR $C_e = 1.00$	6" SLABS #3@12"OC EACH WAY 8" SLABS #4@12"OC EACH WAY	VED.
<form><text><text><text><text></text></text></text></text></form>	THERMAL FACTOR $C_t = 1.00$ FLAT SNOW ROOF LOAD $D_f = 17 \text{ PSF}$	9. WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH OF THE STIRRUP SPACING IN ALL BEAMS.	
<form></form>	7. WIND LOAD: RASIC DESIGN WIND SPEED V = 125 MDH (ALLOWARD C CTRESS DESIGN WIND OPER V = 07 MDH)	10. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.	
<form></form>	EXPOSURE CATEGORY C	11. PROVIDE VERTICAL DOVETALE SLOTS AT 24 OC WITH THES AT 16 OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER. 12. BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION.	
<text><text><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><text><text><text></text></text></text></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text></text></text>	INTERNAL PRESSURE COEFFICIENTS ± 0.18 BASE SHEAR (1.0xW) $V_x = BY PEMB$ $V_y = BY PEMB$	13. MECHANICAL AND ELECTRICAL CONDUIT IN SLABS ON GRADE SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN INDIVIDUAL CONDUITS AND REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL	
<text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></text>	COMPONENTS AND CLADDING - ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE	FRAMING OR REINFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION. 14. MECHANICAL AND ELECTRICAL CONDUIT IN ELEVATED SLABS IS NOT ALLOWED UNLESS SPECIFICALLY REVIEWED AND APPROVED BY THE STRUCTURAL	
	MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS AS DETERMINED PER THE GOVERNING BUILDING CODE FOR THE	ENGINEER PRIOR TO PLACEMENT.	
	WORST-CASE PRESSURES (PSF) BELOW:	AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.	
	ZONE EFFECTIVE WIND AREA (SF)	The ARCHITECT FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS.	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17. FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC	b DRAW
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS. 18. THE CONTRACTOR SHALL ASSUME CONCRETE OVERAGES IN FLEVATED DECK POLIES DUE TO MEMBER AND DECK DEFLECTIONS UNLESS SHOWN ON	
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PLANS, BEAMS ARE NOT CAMBERED. CONCRETE OVERAGES MAY BE CALCULATED BY THE CONTRACTOR FOR BEAM DEFLECTIONS EQUALING L/300	
 A A A A A A A A A A A A A A A A A A A	$\begin{array}{ c c c c c c } \hline & & -79 & -66 & -61 & -50 \\ \hline & & +34 & +31 & +28 & +25 \\ \hline \end{array}$	19. REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.	
 Window Construction of the Constene Construction of the Construction of the Construction	$\begin{bmatrix} 4 & -37 & -34 & -31 & -28 \\ \hline & & +34 & +31 & +28 \\ \hline & & & +25 \\ \hline \end{bmatrix}$	20. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.	
 Numerican and the property of the	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
 Note that the transmission of the tra	8. SEISMIC LOAD:	CONCRETE CONSTRUCTION JOINTS	
 A subject of a subject subject of a subject of a subject of a subject of a subject	S _S 18.7 %g		
	S1 8.7 %g SDS 0.2 %g	1. CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION	
 A. Loss transmission of the second second	S_{D1} $0.14 \ \text{wg}$ IMPORTANCE FACTOR $I_0 = 1.5$	JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL. 2. THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE	
 All Construction of the second of t	SITE CLASS D	MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL	
	SEISMIC DESIGN CATEGORY D SEISMIC FORCE-RESISTING SYSTEM -		
 Building American Carlos and Carlos	BY PEMB SUPPLIERRESPONSE MODIFICATION COEFFICIENT $R_x = BY PEMB$ $R_y = BY PEMB$		() (C)
 Merry Line (Merry Merry Mery Me	DEFLECTION AMPLIFICATION FACTOR $C_{dx} = BY PEMB$ $C_{dy} = BY PEMB$ SEISMIC RESPONSE COEFFICIENT $C_{sx} = BY PEMB$ $C_{sy} = BY PEMB$	STRUCTURAL MASONRY	
 ULSES SPECIFICULIA INTEL THERE ARE IN SACROSSES AND CONTINUE TUDOES, SOUTS, CONTINUE, SOUTS, CONTINUE, SOUTS, CONTINUE, SOUTS, CONTINUE, SOUT	BASE SHEAR (1.0xE) $V_x = BY PEMB$ $V_y = BY PEMB$ 9. FUTURE LOADS:	1. ALL MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES (TMS 4021602).	
 Montany department of the screen based of the screen base	UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.	2. LOAD BEARING MASONRY WALLS, PILASTERS, PIERS, RETAINING WALLS, FOUNDATION WALLS AND ANY OTHER MASONRY SO DESIGNATED ON DRAWINGS IS CONSIDERED HERE TO BE STRUCTURAL MASONRY	
 FORMATING STREET, IN SERVICE IN RECORDERING, INSTRUCTION REPORTS FORMATING RECORDERING STREET, IN SERVICE IN RECORDERING STREET, IN SERVICE IN SERV		3. REQUIRED COMPRESSIVE STRENGTH OF MASONRY UNITS:	
1. SOUCH INCLUDENT SALES OF THE CONTRACT AND AND ALL STATES OF THE CONTRACT AND ALL AND ALL STATES OF	FOUNDATIONS	SOLID CLAY UNITS - 6,200 PSI CONCRETE UNITS - 2,000 PSI ON NET AREA	
SUPER PERMENDIAL PERME	1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY:	4. CONCRETE MASONRY UNITS (CMU) SHALL BE LIGHT WEIGHT (105 PCF) CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR UNIT SIZE, FACE, COLOR, JOINTING, ETC.	
 A. L. COMPRENDER SO ULILEB IN THE CONTRACTION ON AS ACTEORY ON THE DAVIDUES OF THE PLUGDED OF THE	SOUTHERN ENGINEERING AND TESTING, P.C., DATED JANUARY 29, 2024 (SE&T PROJECT NO.: 24-838) THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE IS 3.000 PSF BASED ON THIS REPORT.	 MORTAR SHALL BE TYPE S, ASTM C270. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT. ASTM C476. MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE 2 000 PST 	
The start is the restart work for the start is start is controls in the start is the control is the start	2. ALL RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT AND AS NOTED ON THE DRAWINGS MUST BE FOLLOWED IN PREPARATION OF THE SUBGRADE LINESS OTHERWISE DIRECTED BY THE ENGINEER OF DECODD, THE CONTRACTOR SHALL OF ANY THE DEPORT FROM	7. MINIMUM 28-DAY COMPRESSIVE STRENGTH (f'm) OF THE MASONRY WALLS SHALL BE 2,000 PSI. MASONRY STRENGTH SHALL BE DETERMINED BY THE	
Encomposition for the first the second in th	THE OWNER AND BE FAMILIAR WITH THE RECOMMENDATIONS CONTAINED THEREIN PRIOR TO THE START OF CONSTRUCTION. IF CONDITIONS	8. REINFORCING:	
 POTTIONE SHULE CANCEL DURAVE BLUKANING STIMUT NOSE SHOWN ON THE DRAWINGS FERGURE DP THE EGDTCHING ALL BOOK BOOK DOPF STOR TETTION LATE OF PORTION OF AND ADDRAWED AND ADDRAWED BETTION DECIDINATION OF THE TOTION OF AND ADDRAWED ANDRAWED AND ADDRAWED AND ADDRAWED AND ADDRAWED AND ADDRAWED AND	ENCOUNTERED DURING CONSTRUCTION DIFFER FROM THOSE DESCRIBED IN THE REPORT, THE OWNER SHALL NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD SO THE RECOMMENDATIONS CAN BE REEVALUATED.	I YPICAL - ASIM A615, GRADE 60 ALL REINFORCING TO BE WELDED - ASTM A706	()
BECOMP STRUCTURE, CONNECTION SHULL REPORT ON A SERVICE DA SERVICE DURING. 1. INFANLE SINGLAR CONNECTION STULTURE, THE ADAPTION OF THE CONNECTION OF THE CON	3. FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS	9. REFER TO THE DRAWINGS FOR REINFORCING LAP TYPICAL DETAIL AND SCHEDULE REQUIREMENTS. 10. MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE GROUTING IS 5 FEET ABOVE CONSTRUCTION SURFACE OR PREVIOUSLY GROUTED	
The state of	BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN.	MASONRY. IF GROUT POUR HEIGHT EXCEEDS 5 FEET, THEN "HIGH LIFT" GROUTING PROCEDURE MUST BE FOLLOWED. PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF FACH GROUT POUR HEIGHT. CLEANOUT OPENINGS SHALL BE PROVIDED AT FACH CELL TO BE FULLED WITH CROUT	
 UNDER: ALL FLE UNICE ROLLINGE UNIX ROLINGE UNIX ROLLINGE UNIX ROLINGE UNIX ROLLINGE UNIX ROLINGE UNIX ROLLINGE UNIX ROLLINGE UNIX	1. PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 3'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS.	11. ALL GROUT PLACED OVER 12" IN HEIGHT SHALL BE MECHANICALLY CONSOLIDATED DURING GROUTING. GROUT SHALL BE RECONSOLIDATED BY	
 HUMPHPI). 4. SUSS ON GAGE SHALL BE SUPPORTED ON A BASE LAVE OF POROLS FILL (WASHED STOLE OR CLEAN SAND) WITH A MINIMUM THEORY ESS OF 41. 5. FIEL OCAMACTION SHALL BE VERTIFIE WITH AT LEAST ONE FIRE 1 PRAY, INTERS, ONE OF RALLES, MANDAU STRUCT RESONANCE WITH A MINIMUM THEORY ESS OF 41. 5. FIEL OCAMACTION SHALL BE VERTIFIE WITH AT LEAST ONE FIRE 1 PRAY, INTERS, ONE OF RALLES, BALLED STOLE OR FULL, STRUCT SHALL STRUCT SHALL	 COMPACT ALL FILL UNDER BUILDING TO 98% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER 	12. MAXIMUM GROUT LIFT (GROUT POURED IN ONE CONTINUOUS OPERATION) IS 5 FEET. THIS LIMIT ALSO APPLIES TO "HIGH LIFT" GROUTING.	_ LL _ i
 F. HELD COMPACTION SHULL REVENTED WITH AT LEAST ONE TSTEP RE. 2006 SQUARE FEET PRE. LIFT (AT LEAST ONE FEET LIFT), IN ACCORDANCE WITH AT LAST ONE FEET LIFT), IN ACCORDANCE WITH AT LAST	EQUIPMENT). 4. SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4".	13. REINFORCE MASONRY WHERE SHOWN ON STRUCTURAL DRAWINGS. TIE REINFORCING IN POSITION AND PLACE GROUT AROUND REINFORCING. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY.	
D2237 CORRECTUDIONS ETC. CUIDORN HETTIOD). SEE SECTEMENTIONS SERVICES ON THE TESTING REQUIREMENTS. WILLS SET THORPARY INSTEAD OF THE SECTEMENT ON SERVICES ON THE CUIDORN HETTIONS (SUBJECT) COURSES AT INFERSECTIONS (SUBJECT) C	5. FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD) ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (PUBBED BALLOON METHOD), AND/OP ASTM	14. TIE MASONRY WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.	
 multiple of the construction of the construction of the structure and whether the construction of the structure and the structure of the structure and the structure of the structur	D2937 (DRIVE-CYLINDER METHOD), ASTH D0350 (NOCLEAR HETHOD3, SHALLOW DEFTH), ASTH D2107 (ROBBER DALLOUN METHOD), AND/OK ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS.	WALL OPENINGS. THE EACH BAR TO THE FOUNDATION WITH A MATCHING DOWEL.	
7. WALLS RETAININGS SOLIL HAVE BEEN DESIGNED UTILIZING THE POLLOWING PARAMETERS: MAISSING POLITIC TO FRICTION 17. ALL LITTLES TO BEAR #"ININIUM EACH SDLE OF OPENING, UNLESS NOTED OTHERWISE. MASSING PRESSURE COEFFICIENT 2.77 COEFFICIENT OF FRICTION 0.30 8. UTILITY LINES SHALL NOT BE FRACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION. 17. ALL LINTLES TO BEAR #"ININIUM EACH SDLE OF OPENING, UNLESS NOTED OTHERWISE. 8. UTILITY LINES SHALL NOT BE FRACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION. 17. ALL LINTLES TO BEAR #"ININIUM EACH SDLE OF OPENING, UNLESS NOTED OTHERWISE. 9. ONE JAYO (MARIMUM VECTAL CONDUT ALL WALL SADE) OPENING, UNLESS NOTED OTHERWISE. 17. 10. OLD (TAU DETAIL SADE) OPENING, UNLESS NOTED OTHERWISE. 18. 0. OPENING, UNLESS NOTED OTHERWISE 19. OPENING, UNLESS NOTED OTHERWISE. 19. 0. OPENING, UNLESS OFF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION. 00.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.00017. 10.0	o. WALLS RETAINING SOLL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOLL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.	15. ALL CORNERS OF STRUCTURAL MASONRY WALLS SHALL BE CONSTRUCTED BY INTERLOCKING COURSES. AT INTERSECTIONS WHERE SEQUENCING OR BLOCK COURSING PROHIBITS INTERLOCKED CONSTRUCTION SEE ALTERNATE DETAILS HEREIN.	
PASSIVE PRESSURE COEFFICIENT 2.77 COEFFICIENT OF FRICTOR 0 . 3.0 8. UTILITY LINES SHALL NOT BE PLACED THROWGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION. 19. ORE 3/47 (MAXIMINI WEIGHT CONDUIT ALLOWED IN NUT REINFORCED CELL PROVIDED 1* CLEAR IS MAINTAINED BETWEEN REINFORCED CELLS 19. ORE 3/47 (MAXIMINI WEIGHT CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFORCED CELLS UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL COORDINATE LAYOUT TO AVOID REINFORCED CELLS. 24. 24. 11. 24. 24. 24. 24. 24. 24. 24. 24	 WALLS RETAINING SOIL HAVE BEEN DESIGNED UTILIZING THE FOLLOWING PARAMETERS: MOIST SOIL UNIT WEIGHT 120 PCF 	 17. ALL LINTELS TO BEAR 8" MINIMUM EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE. 18. GROUT ALL MASONRY WALLS AND CAVITY BELOW GRADE SOLID. GROUT ALL WALLS ABOVE GRADE AT THE REINFORCED CELLS (MINIMUM) OR AS 	
8. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.	PASSIVE PRESSURE COEFFICIENT2.77COEFFICIENT OF FRICTION0.30	INDICATED IN SPECIFIC SECTIONS. 19. ONE 3/4"Ø (MAXIMUM) VERTICAL CONDUIT ALLOWED IN ANY REINFORCED CELL PROVIDED 1" CLEAR IS MAINTAINED RETWEEN DEINFORCING AND	
	8. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL	CONDUIT. NO OTHER VERTICAL OR HORIZONTAL CONDUITS, PIPES, OR SLEEVES SHALL BE LOCATED IN REINFORCED CELLS UNLESS OTHERWISE	
24.1 1 ¹¹ = 09/10 24.4 GENERA			
24.1 1"= 09/19 24.4 GENERA			
24.3 1" = 09/19 24-0 GENERA			
24. 1" = 09/19 24-0 GENERA			
09/19 24-0 GENERA			24 2
09/19 24-0 GENERA			
24-0 GENERA			09/19
GENERA			24-0
			GENERA

OF 20

ST	RUCTURAL STEEL	AD	HESIVE AND MEC
1.	DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360).	1.	ANCHOR BOLTS,
Ζ.	STRUCTURAL STEEL MATERIALS:		
	WIDE FLANGE SHAPES (W SECTIONS) - ASTM A992, GRADE 50 (FY=50 KSI)		
	CHAININELS AND ANGLES - ASTM A30 (FY=30 KSI) DIATES AND PADS - ASTM A26 (EV-26 VSI) OD ASTM AE72, CDADE E0 (EV-E0 VSI) AS INDICATED ON THE DDAWINGS	2.	PRE-APPROVED P
	PLATES AND DARS - ASTM ASO (FT=30 KSI) OR ASTM AS72, GRADE 50 (FT=50 KSI) AS INDICATED ON THE DRAWINGS.		
	SQUARE AND RECTAINGULAR TUDES - ASTM ASUU, GRADE D (FT=40 KST) DIDES OD DOLIND TUDES - ASTM AS2, CDADE D (EV_25 KST) OD ASTM ASU0, CDADE D (EV_42 KST)		
c	PIPES OK ROUND TUDES - ASTM ASS, GRADE D (FT=33 KSI) OK ASTM ASUU, GRADE D (FT=42 KSI)		
3.	A QUALIFIED FADRICATOR SHALL HAVE A MINIMUM OF 3 YEARS OF EXPERIENCE IN FADRICATING STRUCTURAL STEEL LIKE THAT INDICATED FOR THIS		
	PROJECT AND SUFFICIENT CAPACITY TO FADRICATE THE STRUCTURAL STEEL WITHOUT DELATING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING:		
	A. FADRICATOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED PLANT, CATEGORY (DU) OR IS ACCREDITED BY THE IAS EARDICATOR INSPECTION PROCEAM FOR STRUCTURAL STEEL (ACCREDITATION CRITERIA 172)		
	ACCREDITED BY THE TAS FADRICATOR INSPECTION PROGRAM FOR STRUCTURAL STEEL (ACCREDITATION CRITERIA 172).	2	
	D. FADRICATOR HAS AN ESTADLISHED AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE	5.	
	WITH THE REQUIREMENTS IN ANSI/AISC 303, ANSI/AISC 300, AND THE CONTRACT DOCOMENTS. PROGRAM SHALL AT A MINIMUM ADDRESS		SATURATED CON
л	A OUNTEED EDECTOR SHALL HAVE A MINIMUM OF 5 VEARS OF EVDEDIENCE IN EDECTING STRUCTURAL STEEL LIVE THAT INDICATED FOR THIS DROJECT	1	
4.	A QUALIFIED ERECTOR SHALL HAVE A MINIMUM OF 3 TEARS OF EXPERIENCE IN ERECTING STRUCTURAL STELL LIKE THAT INDICATED FOR THIS PROJECT	4.	
	AND SUFFICIENT CAPACITY TO ERECT THE STRUCTURAL STELL WITHOUT DELATING THE WORK, AND SHALL MEET ONE OF THE FOLLOWING.		
	A. ERECTOR PARTICIPATES IN THE AISC QUALITY CERTIFICATION PROGRAM AND IS DESIGNATED AN AISC-CERTIFIED ERECTOR, CATEGORY (CSE).		
	THE DECIDENTIAL AND LISTADLISTICD AND MAINTAINED QUALITY CONTROL PROGRAM TO ENSURE THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE DECULTEMENTS IN ANSI/AISC 303 ANSI/AISC 360 AND THE CONTRACT DOCUMENTS DOCCDAM SHALL AT A MINIMUM ADDRESS INSDECTION	5	
	OF THE ITEMS NOTED IN ANSI/AISC 360 N2	J.	
5	BEAM SIMPLE SHEAD BRACED ERAME AND ALL MOMENT CONNECTIONS NOT DETAILED ON STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A	6	
J.	PROFESSIONAL ENGINEER RETAINED BY THE STEEL SUDDITER AND REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. THE CONNECTION	0.	
	ENGINEER SHALL SUBMIT A SIGNED AND SEALED LETTER STATING THEY HAVE REVIEWED THE STATE IN WHICH THE PROJECT IS ECCATED. THE CONNECTIONS ARE		
	CONSISTENT WITH THEIR CALCULATIONS AND INTENT		
6	THE CONNECTIONS FOR NON-COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR FOR REACTIONS DETERMINED BY	7	
0.	USING THE MAXIMUM TOTAL UNIFORM LOAD TABULATED IN PART 3 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SECTION SPAN AND	/.	
	STRENGTH OF STEEL SPECIFIED. THE CONNECTIONS FOR COMPOSITE BEAMS SHALL BE DESIGNED FOR REACTIONS SHOWN ON DRAWINGS OR AS		
	DICTATED BY THE TYPICAL COMPOSITE SLAB DETAIL		TRAINING FOR A
7	SIMPLE SHEAR CONNECTIONS SHALL BE MADE WITH ASTM A325 3/4"Ø BOLTS (MINIMUM) TIGHTENED TO A SNUG-TIGHT CONDITION PER AISC		
/.	REQUIREMENTS	8	
8	ALL WEIDING SHALL CONFORM TO THE AMERICAN WEIDING SOCIETY CODE LISE E70 SERIES ELECTRODES FOR ALL STRUCTURAL STEEL WELDS. WHERE	0.	
0.	STEEL MEMBERS ARE WELDED AND NO SIZE IS SPECIFIED. PROVIDE FULL LENGTH FULLET WELDS BOTH SIDES OF MEMBER. SIZE OF FULLETS SHALL BE		
	3/16" FOR MEMBER THICKNESS UP TO 5/16" AND THE MEMBER THICKNESS MINUS 3/16" FOR ALL THICKER MATERIALS		
9	ANCHOR AND THREADED RODS SHALL CONFORM TO ASTM F1554 GRADE 36 55 OR 105 AS INDICATED ON THE DRAWINGS CONTRACTOR TO		
۶.	COORDINATE INSTALLATION OF ITEMS TO BE EMBEDDED IN OR ATTACHED TO OTHER CONSTRUCTION WITHOUT DELAYING THE WORK		
10	STEEL SHALL BE PRIMED WITH FABRICATOR'S STANDARD LEAD- AND CHROMATE-FREE NON-ASPHALTIC RUST-INHIBITING PRIMER COMPLYING WITH	RF	PRODUCTION
10.	MPL# 79 (MINIMUM COAT OF 3 MILS, MAXIMUM OF 5 MILS), CONTRACTOR TO COORDINATE SELECTION OF PRIMER WITH TOPCOATS TO BE APPLIED TO		
	ENSURE THE TWO ARE COMPATIBLE, MEMBERS TO RECEIVE FIREPROOFING OR TO BE ENCASED IN CONCRETE SHALL NOT BE PRIMED	1.	THE USE OF REP

ENSURE THE TWO ARE COMPATIBLE. MEMBERS TO RECEIVE FIREPROOFING OR TO BE ENCASED IN CONCRETE SHALL NOT BE PRIMED. 1. SEE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL ITEMS REQUIRED TO BE HOT-DIP GALVANIZED AFTER FABRICATION. 12. STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING, NAILERS, CLIPS AND TIES IN ACCORDANCE WITH THE ARCHITECTURAL AND STRUCTURAL

- DRAWINGS. 3. CAP ALL OPEN HSS OR PIPE MEMBERS OUTSIDE THE BUILDING ENVELOPE WITH A 1/4" (MINIMUM) FITTED PLATE, UNO. 14. ERECTOR SHALL SET STRUCTURAL STEEL IN LOCATIONS AND TO ELEVATIONS IN ACCORDANCE WITH ANSI/AISC 303 AND 360. MAINTAIN THE FRAME
- WITHIN ERECTION TOLERANCES PER ANSI/AISC 303. PROMPTLY PACK SHRINKAGE-RESISTANT GROUT SOLIDLY BETWEEN BEARING SURFACES AND PLATES SO NO VOIDS REMAIN.
- 5. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. THERMAL CUTTING MAY NOT BE USED IN THE FIELD DURING ERECTION.
- . QUALITY CONTROL INSPECTION TASKS SHALL BE PERFORMED BY BOTH THE FABRICATOR AND ERECTOR IN ACCORDANCE WITH ANSI/AISC 360 N5. NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING FABRICATION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY OR THE FABRICATOR'S QCI. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW. 18. AT THE COMPLETION OF FABRICATION AND ERECTION, THE FABRICATOR AND ERECTOR SHALL EACH SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER STATING THE MATERIALS SUPPLIED AND WORK PERFORMED ARE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 19. NON-DESTRUCTIVE TESTING (NDT) OF WELDED JOINTS PROVIDED DURING ERECTION SHALL BE IN ACCORDANCE WITH N5.5 AND PERFORMED BY AN INDEPENDENT AND QUALIFIED TESTING AGENCY. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER FOR REVIEW.
- 20. ALL STEEL EXPOSED TO VIEW SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY ANSI/AISC 303 AND SHALL BE TREATED AS SUCH.

PREFABRICATED METAL BUILDING

- DESIGN, FABRICATION, AND ERECTION SHALL BE PER THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360). DESIGN AND CONSTRUCTION OF THE PREFABRICATED METAL BUILDING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- DESIGN CRITERIA:
- MAXIMUM HORIZONTAL DRIFT H/600 (H = MEAN HEIGHT OF STRUCTURE) MINIMUM COLLATERAL LOAD - 10 PSF PLUS ROOF TOP MECHANICAL UNITS, HANGING EQUIPMENT, STAGE CURTAINS, BASKETBALL GOALS, ETC. A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED SHALL BE RESPONSIBLE FOR THE DESIGN OF
- THE PREFABRICATED METAL BUILDING MEMBERS AND THEIR CONNECTIONS. THIS WORK SHALL ALSO INCLUDE ALL MEMBERS AND BRACES REQUIRED TO BRACE EXTERIOR WALLS. ALL SHOP DRAWINGS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND
- SHALL BE SUBMITTED FOR RECORD PURPOSES UPON REQUEST. ALL ANCHOR BOLTS SHALL BE DESIGNED BY THE METAL BUILDING SUPPLIER AND SUPPLIED BY THE CONTRACTOR. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AS A MINIMUM. SUBMIT SHOP DRAWINGS FOR ALL ANCHOR BOLTS INDICATING THE REACTIONS IMPOSED ON THE
- FOUNDATION. FOUNDATION DESIGN ASSUMES PINNED BASE CONNECTIONS FROM THE METAL BUILDING COLUMNS TO THE FOUNDATION.
- FOUNDATIONS HAVE BEEN DESIGNED FOR REACTIONS INDICATED ON THE DRAWINGS. SUBMIT BASE REACTIONS FOR FOUNDATION DESIGN
- VERIFICATION AND POSSIBLE FOUNDATION RE-DESIGN. CONTRACTOR SHALL PROVIDE UNIT COSTS FOR POSSIBLE FOUNDATION REVISION.

NON-LOAD BEARING COLD-FORMED STEEL (METAL STUDS)

- ALL STRUCTURAL MEMBERS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REFERENCED EDITION OF THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS BY THE AMERICAN IRON AND STEEL INSTITUTE.
- ALL METAL STUDS, HEADERS, AND ACCESSORIES SHALL BE MADE OF THE MINIMUM TYPE, SIZE, GAUGE, AND SPACING SHOWN ON DRAWINGS. MINIMUM YIELD STRENGTH (FY) FOR STUDS IS 33 KSI FOR 18 GA (43 MILS) AND 20 GA (33 MILS) MATERIALS, AND 50 KSI FOR 12 GA (97 MILS), 14 GA
- (68 MILS), AND 16 GA (54 MILS) MATERIALS. ALL THE COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COME FROM A SINGLE SOURCE MANUFACTURER. ONLY MANUFACTURERS WHO ARE MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) OR THE STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) WILL BE ACCEPTED. THE
- INSTALLATION SHALL COMPLY WITH THE MANUFACTURER'S RECOMMENDATIONS. SUBMIT SHOP DRAWINGS FOR ALL COLD-FORMED METAL FRAMING USED TO SUPPORT CEILINGS AND EXTERIOR CLADDING. SHOP DRAWINGS SHALL INDICATE PLACING OF ALL FRAMING MEMBERS SHOWING TYPE, SIZE, GAUGE, NUMBER, LOCATION AND SPACING. THEY SHALL ALSO INDICATE
- SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS REQUIRED FOR PROPER INSTALLATION. SHOP DRAWINGS SHALL SHOW SIZE AND LENGTH OF WELDS FOR ALL WELDED CONNECTIONS AND TYPE, SIZE AND NUMBER OF SCREWS FOR ALL
- SCREWED CONNECTIONS. SUBMIT MANUFACTURER'S DATA GIVING STRENGTH VALUES FOR SCREWS USED.

ALL STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A653 AND C955. ALL ACCESSORIES SHALL BE FORMED FROM STRUCTURAL QUALITY STEEL WITH MINIMUM YIELD STRENGTH OF 50 KSI. A MINIMUM LENGTH OF 10" OF UNPUNCHED STEEL IS REQUIRED AT BOTH ENDS OF STUDS. NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10". NO CUTTING OF THE STUD FLANGE IS PERMITTED.

- BOTH STUD FLANGES SHALL BE ATTACHED TO THE TOP AND BOTTOM TRACK WITH (2)#10 SCREWS EACH SIDE.
- 0. SPLICES IN STUDS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. 1. MULTIPLE STUD "COLUMNS" SHALL BE WELDED TOGETHER IN GROUPS OF AT LEAST TWO STUDS WITH 2" WELD TOP AND BOTTOM AND 1" WELD AT 24"OC BOTH SIDES IN BETWEEN.
- 12. TRACK SPLICES WITHIN A PANEL/WALL MUST BE SECURELY ANCHORED TO A COMMON ELEMENT (I.E. STUD, HEADER, ETC.), BUTT-WELDED TOGETHER, OR SPLICED WITH STUD MATERIAL SECURELY FASTENED TO TRACK ON BOTH SIDES OF SPLICE. 3. LATERAL BRIDGING SHALL BE USED TO RESIST TORSIONAL FORCES IN THE METAL STUDS. BRIDGING SHALL BE 2 1/2"-18 GA (43 MILS) FLAT STRAPS,
- SCREW ATTACHED TO BOTH FLANGES OF EACH STUD WITH SOLID BLOCKING REQUIRED AT 8"OC (MAX) AND ADJACENT TO EACH OPENING. BLOCKING MAY BE MADE FROM MATCHING GAUGE STUDS ATTACHED WITH 16 GA (54 MILS) CLIP ANGLES WITH (2)#10 SCREWS INTO EACH FLANGE. 4. ACCEPTABLE BRIDGING ALTERNATE IS COLD-FORMED CHANNELS (1 1/2" CHANNEL IN 3 5/8" OR 4" STUDS AND 2 1/2" CHANNEL IN 6" STUDS) WELDED
- TO THE OUTER EDGE OF PUNCHOUTS WITH 1/4" MINIMUM WELD.
- BRIDGING IS TO BE PLACED AT NO MORE THAN 4'-0"OC VERTICALLY.
- 6. INSTALL DOUBLE STUDS AT EVERY INTERRUPTION (I.E. PLUMBING CHASES, ETC.).
- MINIMUM TRACK FASTENINGS SHALL BE 0.138"Ø POWDER ACTUATED FASTENERS (PAFs) SPACED 16"OC FOR WALLS (UNO), WITH 1 1/4" MINIMUM PENETRATION INTO CONCRETE.
- 18. VOIDS BENEATH TRACK SHALL NOT BE PERMITTED. CONTRACTOR SHALL PROVIDE A LEVEL SLAB WITHIN ACI 117 TOLERANCES. WHERE UNEVENNESS OF SUPPORTING FLOOR PREVENTS CONTINUOUS SOLID BEARING, PANEL OR TRACK SHALL BE LEVELED BY PLACING MORTAR OR GROUT BENEATH TRACK. 9. VERTICAL DEFLECTION CLIPS ARE REQUIRED TO BE CAPABLE OF ACCOMMODATING UPWARD AND DOWNWARD VERTICAL DISPLACEMENT OF THE STRUCTURE THROUGH POSITIVE MECHANICAL ATTACHMENT TO STUD WEB. MECHANICAL ATTACHMENT TO STRUCTURE AND SCREW ATTACHMENT TO STUD WEB USING STEP-BUSHINGS TO PERMIT FRICTIONLESS VERTICAL MOVEMENT. CONNECTORS TO BE TESTED IN ACCORDANCE TO ICC AC621
- CRITERIA AND HOLD A VALID ICC-ES EVALUATION SERVICE REPORT TO BE ACCEPTABLE.
- . HEADERS SHALL BE CONSTRUCTED OF UNPUNCHED STUDS. SHEAR SHALL BE TRANSFERRED BY FULL BEARING ON JACK STUDS OR BY SHEAR PLATES. SHEAR PLATES SHALL BE 16 GA (54 MILS) MINIMUM.
- 1. REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING WALLS.

	#	Date	By	Revisions	Description		DATE:
HESIVE AND MECHANICAL POST-INSTALLED ANCHORS					· · · · · · · · · · · · · · · · · · ·		
ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRA CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ENGINEER OF RECORD. PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S O MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQ PROVIDE SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE SPECIFIED ANCHOR. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAN FOR SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND T ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPER AND DRILLING METHODS. BASIS OF DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWING SATURATED CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES SYSTEM, OR CORE-DRILLING. INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION I WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. GREATER THAN THE DIAMETER OF THE ANCHOR BEING INSTALLED. ALL INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOU ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT A ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDI WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIA STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADH TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPA ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARI CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CO AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIO ALTERNATIVELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTA TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION TH TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANCH	ILS, AND O SONLY WHE DEWALT. Y OPTION TO S UIVALENT L ALTERNATI /ING AN ICC HE AVAILAE RATURE, INS S INCLUDE FAHRENHE NSTRUCTIO ALL HOLES HOLES SHAL ANCHORS A CATED ON AL WITH UN ESIVE SHAL ANCHORS A CATED ON AL WITH UN ESIVE SHAL ABLE OF SU DWARE AND DNTRACTOR US TYPES O TIVE OF TH IAT ALL PER OR INSTALL	THER EMBEL THER EMBEL THER DETAILE WHERE DET SUBMIT AN J OAD CAPAC E PRODUCT C-ESR SHOW BILITY OF CO STALLATION STALLATION STALLATION STALL BE OLLAN ONS, AS INC SHALL BE OL SHALL SH	AILS INDIC ALTERNATE ITY TO THI IS CAPABL (ING COMP DMPREHEN TEMPERA OWING PA DLES MADE LUDED IN RILLED WI RILLED WI HED WITH (LAITANCE, TY OF ANC NGS. PACITY, TH LED IN TH INIMUM T SHALL BE NUFACTUR RELATED IANUFACT STALLING (L TIEMS SHALL BE DRAWINGS OR WI CATE SPECIFIC ADI E SIMILAR PRODUC E ANCHOR SPECIFI E OF MEETING THI PLIANCE WITH THE SIVE INSTALLATIO TURE, MOISTURE O RAMETERS: CRACK BY HAMMER DRIL THE ANCHOR PACK TH A DIAMETER N COMPRESSED AIR DUST, DIRT, AND CHORS TO EDGE O E CONTRACTOR SH IE HOLLOW BASE I ENSION AND SHEA SUPPLIED BY THE SUPPLIED BY THE SUPPLIED BY THE ANCHORS ARE TRA	E SET INTO HARDENED HERE APPROVED BY THE HESIVE OR MECHANICAL CT PROVIDED BY A DIFFEREN IED. THE CONTRACTOR SHAL E PERFORMANCE OF THE E GOVERNING BUILDING COL DN INSTRUCTIONS. ADHESIV CONDITION OF CONCRETE, KED CONCRETE; WATER- L, HOLLOW DRILL BIT KAGING. HEED ALL LABEL O LARGER THAN 1/8" AND SHALL BE DRY PRIOR TO OIL. F CONCRETE. INSTALL HALL INSTALL THE ANCHOR MATERIAL USING SCREEN AR LOAD CAPACITIES NOTED ANCHOR MANUFACTURER. HE ADHESIVE MATERIALS, IN THIS PROJECT. ONSITE INSTALLATION INED SHALL BE SUBMITTED	T L DE E S RESERVED.	SIEVVAR 223 S. WEST STREET, SUITE 1100 RALEIGH, NC 27603 T 919.380.8750 FIRM LICENSE #F-1536 CARO O46260 O46260 O46260 O46260 O46260 O9 -1 9 -2024 BOBBITT A&E, PLL 2400 Weston Parkway Cary, North Carolina 2751 Cary, North Carolina 2751
THE ULTIMATE TENSION AND SHEAR CAPACITIES SHALL BE DETERMINED WHICH ARE REPRESENTATIVE OF THE ACTUAL INSTALLATIONS. TESTING APPROVED REPRESENTATIVE AND SHALL BE DOCUMENTED FOR THE DES) by a job s Shall be i Ign profes	SITE TEST P PERFORMED SSIONAL.	ERFORMED BY THE AI	ON A MINIMUM C DHESIVE ANCHOR	F FIVE INSTALLED SAMPLES MANUFACTURER OR HIS	BOBBITT. ALL RIGHT	2400 Weston Parkwa
THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY O IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTAN HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY	CONTRACTO ICE OF ALL ERRORS TH	OR, SUBCON INFORMATION HAT MAY OC	TRACTOR, ON SHOWN CUR HERE	ERECTOR, FABRICA I HEREIN AS CORR ON.	ATOR, OR MATERIAL SUPPLI ECT, AND OBLIGATES	R 1927	COORDINATOR: JGF
						VRIGHT	DRAWN BY: VNA
							E STATION NO 3 AROLINA
							GTON FIRE 210 NORTH 2N, NORTH CA

LILLIN 2873 NC : LILLINGT

24 X 36

1" = 1'-0"

09/19/2024

24-0013

GENERAL NOTES

OF 20

Autodesk Docs://Lillington Fire Station No 3/S24003_Lillington Fire Station No 3_STRUCT_V24.rvt

ABBREVIA	TIONS			SYMBOL LEGE	ND
@	AT	GT	GIRDER TRUSS	SYMBOL	MEANING
&	AND	HD	HEADED		
Ø	DIAMETER	HI	HIGH	•	SPOT ELEV
		HORIZ	HORIZONIAL HOLLOW STRUCTURAL SECTION	<no></no>	TOP OF FO
	ADDITIONAL	INT	INTERIOR	<no> <no></no></no>	
ADH	ADHESIVE	TL	JOINT	<u> </u>	STEP IN IC
AFF	ABOVE FINISHED FLOOR	К	KIP(S)	No	DEPRESSE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	KB	KNEE BRACE		
	AMERICAN IRON AND STEEL INSTITUTE		KIPS PER SQUARE INCH LONG BAR	[NO]	TOP OF WA
ARCH	ARCHITECT'S / ARCHITECTURAL	LBS	POUNDS	(No) [+No]	TOP OF ST
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LLH	LONG LEG HORIZONTAL	77777	
B/ or BOT	BOTTOM		LONG LEG VERTICAL		
BCX	BOTTOM CHORD EXTENSION	LOC	LOCATION	1111	
BFB	BOTTOM FLANGE BRACE	LSH	LONG SIDE HORIZONTAL	F#	SPREAD FC
BFF	BELOW FINISHED FLOOR	LSV	LONG SIDE VERTICAL		SINERBIC
BLDG	BUILDING			P#	CONCRETE
BOS	BOTTOM OF STEEL	MC	MOMENT CONNECTION		
BRG	BEARING	MCJ	MASONRY CONTROL JOINT		CONCRETE
BTWN	BETWEEN	MECH	MECHANICAL	CJ# WxD	CONCRETE
CANT	CANTILEVER	MFR	MANUFACTURER	CC\\\\#	CONCRETE
				CSW#	CONCRETE
	CLEAR	MISC	MINIMOM	MP#	MASONRY
CMU	CONCRETE MASONRY UNIT	MOW	MIDDLE OF WALL	MI #	MACONDY
COL	COLUMN	MP	MASONRY PILASTER	ML#	MASUNRY
CONC	CONCRETE	No or #		BP#	STEEL BEA
CONST IT	CONNECTION TOTAL		NOT TO SCALE		MACONDY
CONT	CONTINUOUS	NWC	NORMAL WEIGHT CONCRETE	MSW#	MASUNRY
CONTR	CONTRACTOR	OC	ON CENTER	S1	SPAN DIRE
COORD	COORDINATE	OPNG	OPENING		CONCRETE
	CENTERED NATIS (DENNV)				ELEVATION
DBA	DEFORMED BAR ANCHOR	PED	PEDESTAL	V#, M#,	STEEL BEA
DEFL	DEFLECTION	PL	PLATE	L#, A#, T#	INDICATES
DEPR	DEPRESSION / DEPRESSED	PSF	POUNDS PER SQUARE FOOT		STRENGTH
DET	DETAIL	PSI	POUNDS PER SQUARE INCH	H#	HAIRPIN R
			PRESSURE IREATED		
DIST	DISTANCE	REF	REFERENCE		
DWG(S)	DRAWING(S)	REINF	REINFORCING		
DWL(S)	DOWEL(S)	REQD	REQUIRED		
EA		SB	SHORT BAR		
FF	ΕΑCΗ ΕΝD ΕΔCΗ ΕΔCΕ	SCHU	SCHEDULE SIMILAR		
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE		
EL	ELEVATION	SPEC(S)	SPECIFICATION(S)		
ELEV	ELEVATOR	SQ	SQUARE		
	EMBEDDED / EMBEDMENI				
FOD	EDGE OF DECK	STIRR	STIRLINER		
EOS	EDGE OF SLAB	STL	STEEL		
EQ	EQUAL	STR	STRUCTURAL		
EQUIP	EQUIPMENT	T/			
	EXISTING				
EXP	EXPANSION	TOF	TOP OF FOOTING		
EXT	EXTERIOR	TOS	TOP OF STEEL		
FDN	FOUNDATION	TOW	TOP OF WALL		
FFE	FINISHED FLOOR ELEVATION				
	ΓΑCE OF ΜΑΣΟΙΝΚΥ ΕΔΩΕ ΩΕ WALL		UNLESS NUTED UTHERWISE		
FS	FAR SIDE	VIF	VERIFY IN FIELD		
FTG	FOOTING	W/	WITH		
GA	GAUGE	WWF	WELDED WIRE FABRIC		
GALV	GALVANIZED	WP	WORK POINT		

		APPROVAL:		
#	Date	Ву	Description	DATE:

SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.

TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION. STEP IN TOP OF FOOTING ELEVATION, SEE "TYPICAL STEP IN WALL FOOTING" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.

DEPRESSED OR RAISED SLAB ELEVATION, SEE "TYPICAL STEP IN SLAB ON GRADE" DETAIL. ELEVATION RELATIVE TO REFERENCE ELEVATION.

TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.

TOP OF STEEL/JOIST BEARING ELEVATION | TOP OF STEEL ABOVE STEEL/JOIST BEARING ELEVATION.

SLOPED | STEPPED SLAB.

SPREAD FOOTING TYPE, SEE SCHEDULE.

CONCRETE PEDESTAL TYPE, SEE SCHEDULE.

CONCRETE BEAM TYPE, SEE SCHEDULE. "W" INDICATES BEAM WIDTH AND "D" INDICATES BEAM DEPTH (IN INCHES).

CONCRETE JOIST TYPE, SEE SCHEDULE. "W" INDICATES NOMINAL JOIST WIDTH AND "D" INDICATES JOIST DEPTH (IN INCHES).

CONCRETE SHEAR WALL TYPE, SEE SCHEDULE.

MASONRY PILASTER TYPE, SEE "TYPICAL MASONRY PILASTERS" DETAIL.

MASONRY LINTEL TYPE, SEE "TYPICAL LOAD BEARING LINTELS" DETAIL.

STEEL BEARING PLATE TYPE, SEE "TYPICAL STEEL BEAM BEARING" DETAIL.

MASONRY SHEAR WALL TYPE, SEE SCHEDULE.

SPAN DIRECTION OF COMPOSITE SLAB, SEE "TYPICAL COMPOSITE SLAB" DETAIL. CONSTRUCTION SHALL BE 3 1/4" LIGHT WEIGHT CONCRETE ON 3"-19GA COMPOSITE METAL DECK (6 1/4" TOTAL THICKNESS). TOP OF STEEL ELEVATION 6 1/4" BELOW FINISHED FLOOR ELEVATION, UNO.

STEEL BEAM DESIGN END REACTIONS (WHERE APPLICABLE). "V" INDICATES VERTICAL SHEAR, "M" INDICATES BENDING MOMENT, "H" INDICATES LATERAL SHEAR, "A" INDICATES AXIAL TENSION/COMPRESSION, AND "T" INDICATES TORSION. ALL LOADS ARE FACTORED FOR STRENGTH DESIGN IN UNITS OF KIP AND KIP-FT. ALL LOADS SHALL BE CONSIDERED REVERSIBLE, UNO.

HAIRPIN REBAR IN SLAB ON GRADE, SEE TYPICAL HAIRPIN DETAIL

	APPROVAL: DATE:
BOBBITT. ALL RIGHTS RESERVED.	APPROVAL: DATE: STEEVART 223 S. WEST STREET, SUITE 1100 RALEIGH, NC 27603 T 919.380.8750 FIRM LICENSE #F-1536 O46260 O462
HT © 2024	COORDINATOR: JGF
DPYRIGH	DRAWN BY: VNA
ö	
	LILLINGTON FIRE STATION NO 3 2873 NC 210 NORTH LILLINGTON, NORTH CAROLINA
	24 X 36 1" = 1'-0"
	09/19/2024
	24-0013 ABBREVIATIONS & SYMBOL LEGEND
	S0 3
	OF 20

STATEMENT OF SPECIAL INSPECTIONS

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE DESIGNERS OF RECORD.

THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL FURNISH REPORTS TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. REPORTS SHALL INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

MONTHLY INTERIM REPORTS SHALL BE SUBMITTED TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

PROJECT INFORMATION CODE ENFORCEMENT PROJECT #: ---PERMIT #: PROJECT NAME: LILLINGTON FIRE STATION 3 PROJECT ADDRESS: 2873 NC 210 NORTH | LILLINGTON, NC OWNER: NAME OWNER ADDRESS: STREET ADDRESS | CITY, STATE ZIP SPECIAL INSPECTOR OF RECORD: TBD SPECIAL INSPECTOR ADDRESS: STREET ADDRESS | CITY, STATE ZIP DESIGN TEAM STEWART

BOBBITT

STRUCTURAL (RDPIRC) FIRM: ARCHITECTURAL FIRM: MECHANICAL FIRM:

ARCHITECT OF RECORD: Jeff Ford, AIA ENGINEER OF RECORD: NAME, PE

ENGINEER OF RECORD: Thomas W. McLane, PE

SCHEDULE OF SPECIAL INSPECTIONS

THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.

PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER.

THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.

THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:

REOD	ITEM		PRIMARY INSPECTOR/SUPERVISOR
	IT_1	SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS DECLIDED	AS IDENTIFIED BY THE DDDDC
A	11-ZA	STRUCTURAL STEEL AND HIGH-STRENGTH DOLTING	
~			(PLUS ONE TEAR OF RELATED EXPERIENCE)
A	11-2D	WELDING OF STRUCTURAL STEEL	ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1
			CERTIFIED WELDING INSPECTOR, OR NDT LEVEL III CERTIFICATE
X	IT-2C	COLD-FORMED STEEL DECKING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL
			WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF
			RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING
			INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED
			EXPERIENCE)
	IT-2D	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE)
M	IT-2F	COLD-FORMED STEEL FRAMING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
~			(PLUS ONE YEAR OF RELATED EXPERIENCE) OR ICC STRUCTURAL
			WEIDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF
			INSPECTOD CEDITELCATE (DILIS ONE VEAD OF DELATED
.	TT 0	CONCRETE CONCEPLICITION	EXPERIENCE)
A	11-3		AND ACL CONCRETE FIELD TECTING TECHNICIAN CERTIFICATE
			AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE,
			GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL
			INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN
			LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING
X	IT-4	MASONRY CONSTRUCTION	ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-5	WOOD CONSTRUCTION	ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE
			YEAR OF RELATED EXPERIENCE)
X	IT-6	SOILS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
			CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL
			ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR
			GENERALIST CERTIFICATE, OR ICC SOILS SPECIAL INSPECTOR
			CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR
			ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED
			EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR
			OF RELATED EXPERIENCE
п	IT-7	DRIVEN DEEP FOUNDATIONS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
—			CONSTRUCTION MATERIALS TESTING. OR NICET GEOTECHNICAL
			ENGINEERING TECHNICIAN LEVEL IL CONSTRUCTION OR
			GENERALIST CERTIFICATE OR ENGINEER-IN-TRAINING (FIT)
			TDAINING (GIT) WITH ONE VEAD OF DELATED EVDEDIENCE
_	TT 0		CEE IT 7
	11-0		
	11-9A		
	11-9B	RAMMED AGGREGATE PIERS AND STONE COLUMNS	
	11-10	FABRICATED TIEMS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	11-11	WIND RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
风	11-12	SEISMIC RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
X	IT-13A	SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH	AS NOTED HEREIN FOR EACH COMPONENT TYPE
		BOLTING	
X	IT-13B	SEISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL	AS NOTED HEREIN FOR EACH COMPONENT TYPE
X	IT-13C	SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED	AS NOTED HEREIN FOR EACH COMPONENT TYPE
		JOINTS	
	IT-13D	SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
		(H-PILES)	
	IT-14	SPRAYED FIRE-RESISTANT MATERIALS	ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
			CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE
			YEAR OF RELATED EXPERIENCE)
	IT-15	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	SEE IT-14
Ĭ	IT-16	EXTERIOR INSULATION AND FINISH SYSTEMS (FIFS)	AWCI FIES INSPECTOR CERTIFICATE
Ŷ	IT-17	FIRE-RESISTANT PENETRATIONS AND IOINTS	ICC FIRE INSPECTOR I CERTIFICATE (PILIS ONE YEAR OF
A	⁺ ' ⁺ /		RELATED EVERIENCE
-	IT_10		DECISTEDED DDOEESSIONAL ENCINEED (MECHANICAL OD FIDE
	11-10		DECTECTION AND CEDITELCATION AS AD BALANCED OF AARC

-ZA: 51	RUCTURAL STEEL AND HIGH-STRENGTH BOLTING		
<u>SPEC</u> TIC	ON TASK	<u>FRE</u> Q	REFERENCE
FABR	RICATOR CERTIFICATION/VERIFICATION OF QUALITY CONTROL PROCEDURES		
Α.	VERIFY FABRICATOR QUALIFICATIONS.	С	IBC 1704.2.5.1
B.	REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS.	C	AISC 360 N5.2
C.	CULLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION OF	С	IBC 1/04.5
INCD	FADRICATION. PECTIONS DRIOR TO HIGH-STDENGTH ROLTING AT DDE-TENSIONED AND SLID ODITION		
	TS:		
A.	COLLECT MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	C	AISC 360 TABLE N5.6-1
В.	VERIFY FASTENERS ARE MARKED PER ASTM REOUIREMENTS.	P	AISC 360 TABLE N5.6-1
C.	ENSURE CORRECT FASTENERS AND BOLTING PROCEDURES ARE SELECTED FOR JOINT	P	AISC 360 TABLE N5.6-1
	DETAILS. VERIFY GRADE, TYPE, AND BOLT LENGTH (IF THREADS ARE TO BE EXCLUDED FROM		
	SHEAR PLANE).		
D.	VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE	Р	AISC 360 TABLE N5.6-1
	CONDITION AND HOLE PREPARATION (WHEN SPECIFIED), COMPLY WITH THE CONTRACT		
	DOCUMENTS.		
E.	OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION	Р	AISC 360 TABLE N5.6-1
-	PERSONNEL FOR FASTENER ASSEMBLIES AND METHODS.		
F.	VERIFY THE PROTECTED STORAGE FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER	Р	AISC 360 TABLE N5.6-1
TNCD	COMPONENTS.		
11N2A V	ENCIDE CODECT EASTENED ASSEMBLIES DIACED IN ALL HOLES AND MASHEDS/NUTS	ח	
А.	LINGURE CURRECT FAGTEINER AGGEMIDLIEG PLACED IN ALL HULES AND WASHEKS/NUTS (WHEN SPECIFIED) ARE DOSITIONED AG DEOLIIDED	۲	AISC JUU TADLE NJ.0-2
R	VERTEY INTER BROUGHT TO SNUG-TIGHT CONDITION DRIOR TO DRE-TENSIONING	Þ	AISC 360 TABLE N5 6-2
C.	VERIEV FASTENER COMPONENTS NOT THRNED BY THE WRENCH PREVENTED FROM ROTATING	P	AISC 360 TABLE N5.6-2
D.	ENSURE FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH RCSC PROGRESSING FROM	P	AISC 360 TABLE N5.6-2
5.	THE MOST RIGID POINT TOWARDS FREE EDGES.	•	
DOCI	UMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH	С	AISC 360 TABLE N5.6-3
BOLT	TING IS COMPLETE.	-	
VISU	IALLY INSPECT FOR CRACKS THE EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL	Р	AISC 360 N5.7
STEE	EL MAIN MEMBERS AND EXPOSED CORNERS OF GALVANIZED RECTANGULAR HSS MEMBERS.		
STRU	JCTURAL DETAILS		
Α.	VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR RODS AND OTHER EMBEDDED	Р	AISC 360 N5.8
	ITEMS. THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE SHALL BE VERIFIED		
-	AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE.	-	
В.	INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH	Р	AISC 360 N5.8
·28: WI	ELDING OF STRUCTURAL STEEL		
SPECTIO	ON TASK	FREQ	REFERENCE
INSP	PECTIONS PRIOR TO WELDING:		AISC 360 N5.4
Α.	COLLECT AND REVIEW WELDING PROCEDURE SPECIFICATION (WPS) AND VERIFY	С	AISC 360 TABLE N5.4-1
_	MANUFACTURER CERTIFICATIONS FOR WEIDING CONSUMABLES		
B.		-	
C.	CONFIRM WELD MATERIAL TYPE AND GRADE.	Р	AISC 360 TABLE N5.4-1
~	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND	P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1
D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS.	P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1
E.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY.	P P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1
	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING,	P P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1
c	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY.	P P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-1
F.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES.	Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 N5.4
F. INSP	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIEV WELDER OUALIFICATIONS	P P P P	AISC 360 TABLE N5.4-1 AISC 360 N5.4 AISC 360 TABLE N5.4-2
F. INSP A. B	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES. INCLUDING	Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND FXPOSURE	Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS. INCLUDING WIND SPEED PRECIPITATION	Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS.	Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING	P P P P P P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW	P P P P P P P	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.	Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS	Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO	Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS.	Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D. E.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	Р Р Р Р Р Р Р	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D. E. F. INSP	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING:	Р Р Р Р Р Р Р Р С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D. E. F. INSP A.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED.	Р Р Р Р Р Р Р С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-2
F. INSP A. B. C. D. E. F. INSP A. B.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENT.	Р Р Р Р Р Р Р С С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS.	Р Р Р Р Р Р Р Р С С Р С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD MEDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION,	Р Р Р Р Р Р Р Р С С С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, JUNDERCUT, AND PROPENTY	Р Р Р Р Р Р Р С С С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. OONEIDM ADE STUKES COMPLY WITH PAPE 5 29 OF AWE DOT 1	P P P P P P P C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: 'VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. 'VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. 'VISUALLY OBSERVE WERE K-ADEA EOD COACK'S WITHIN 3" OF WELDED DOUBLED DI ATEC	P P P P P P P P C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR COP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. PECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUTY PLATES AND STIFFENERS	Р Р Р Р Р Р Р Р С С С С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISIOAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDRECUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOL ES IN ROLL EN HEAVY SHAPES AND RUIT THE HEAVY SHAPES FOR	P P P P P P P C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT VLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISIOAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUTY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS.	Р Р Р Р Р Р Р С С С С С С	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F. G	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARE STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS. CONDICT UN TRASONIC TESTING (UT) OF CIP GROOVE WED SIN MATERIALS > 5/16".	P P P P P P P C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F. G.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CDP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. PECTIONS AFTER WELDING: VERIFY WELDS HAVE BEED CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUTY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS. CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16": 100% OF WELDS WHERE PRIMABILY SUPPORTING GRAVITY LOADS (I F_CANTU FVERS)	P P P P P P P P C C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. B. C. D. E. F. G.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CD GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY NEEDER QUALIFICATIONS. VERIFY NEEDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 2CTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM THE INSTALLED SIJE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECT	P P P P P P P P C C C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F. G.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. 'ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. 'ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLATION, CATER CROSS SECTION, WELD MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS. CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16": 100% OF WELDS SUBJECT TO FATIGUE 100% OF REMAINING WELDS IN RISK CATEGORY II STRUCTURES	P P P P P P P P C C C C C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3
F. INSP A. B. C. D. E. F. INSP A. B. C. D. E. F. G.	CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM WELD MATERIAL TYPE AND GRADE. CONFIRM METHOD OF WELDER IDENTIFICATION. REVIEW WELDER QUALIFICATION AND CONTINUITY RECORDS. INSPECT FIT-UP FOR GROOVE AND FILLET WELDS, INCLUDING JOINT GEOMETRY. INSPECT FIT-UP FOR CJP GROOVE WELDS OF HSS T-, Y-, AND K- JOINTS WITHOUT BACKING, INCLUDING JOINT GEOMETRY. INSPECT CONFIGURATION AND FINISH OF ACCESS HOLES. ECTIONS DURING WELDING: VERIFY WELDER QUALIFICATIONS. VERIFY WELDER QUALIFICATIONS. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKAGING AND EXPOSURE. MONITOR THAT ENVIRONMENTAL CONDITIONS, INCLUDING WIND SPEED, PRECIPITATION AND TEMPERATURE, ARE WITHIN DEFINED LIMITS. MONITOR PROPER IMPLEMENTATION OF WPS, INCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION. INSPECT WELDING TECHNIQUES, INCLUDING INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETING QUALITY REQUIREMENTS, AND NO WELDING OVER CRACKED TACK WELDS. INSPECT PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. ECTIONS AFTER WELDING: VERIFY WELDS HAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MAVE BEEN CLEANED. CONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE CONTRACT DOCUMENTS. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, AND POROSITY. CONFIRM ARC STRIKES COMPLY WITH PART 5.28 OF AWS D1.1. VISUALLY OBSERVE WEB K-AREA FOR CRACKS WITHIN 3" OF WELDED DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENERS. INSPECT WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES FOR CRACKS. CONDUCT ULTRASONIC TESTING (UT) OF CJP GROOVE WELDS IN MATERIALS ≥ 5/16": 100% OF WELDS SUBJECT TO FATIGUE 10% OF REMAINING WELDS IN RISK CATEGORY II AND IV STRUCTURES.	P P P P P P P P C C C C C C C C C C C C	AISC 360 TABLE N5.4-1 AISC 360 TABLE N5.4-2 AISC 360 TABLE N5.4-3 AISC 360 N5.5 AISC 360 N5.5

DOCUMENTS.

OBSERVE AND INSPECT WELD REPAIR ACTIVITIES.

DOCUMENT ACCEPTANCE/REJECTION OF WELDED JOINTS AND MEMBERS.

IT-2 <u>INSP</u>

IT-3

AISC 360 TABLE N5.4-3 AISC 360 TABLE N5.4-3, N5.5g

С

С

		π	Date Dy
IT-2	2C: COLD-FORMED STEEL DECKING		
1.	PRIOR TO DECK PLACEMENT, VERIFY DECK AND ACCESSORIES (INCLUDING PROFILES, MATER) PROPERTIES, AND BASE MATERIAL THICKNESS) COMPLY WITH THE CONTRACT DOCUMENTS. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	IAL C	REFERENCE SDI QA/QC TABLE 1.1
2.	INSPECTION TASKS AFTER DECK PLACEMENT: A. VERIFY THE INSTALLATION OF DECK AND ACCESSORIES COMPLIES WITH THE CONTRACT	- c	SDI QA/QC TABLE 1.2
	B. VERIFY THAT DECK MATERIAL MILL CERTIFICATIONS COMPLY WITH THE CONTRACT	С	SDI QA/QC TABLE 1.2
3	C. DOCUMENTS. C. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	С	SDI QA/QC TABLE 1.2
J.	A. COLLECT WELDING PROCEDURE SPECIFICATION (WPS). B. COLLECT MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	P	SDI QA/QC TABLE 1.3
	 C. VERIFY MATERIAL TYPE AND GRADE. D. CHECK WELDING EQUIPMENT. 	P P	SDI QA/QC TABLE 1.3 SDI QA/QC TABLE 1.3
4.	INSPECTION TASKS DURING DECK WELDING: A. VERIFY WELDER QUALIFICATIONS.	Р	SDI QA/QC TABLE 1.4
	B. VERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES.	P	SDI QA/QC TABLE 1.4
	D. MONITOR PROPER IMPLEMENTATION OF WPS.	P	SDI QA/QC TABLE 1.4
5.	INSPECTION TASKS AFTER DECK WELDING: A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP AND PERIMETER	С	SDI QA/QC TABLE 1.5
	WELDS. B. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA.	С	SDI QA/QC TABLE 1.5
6	C. OBSERVE WELD REPAIR ACTIVITIES. D. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	C	SDI QA/QC TABLE 1.5 SDI QA/QC TABLE 1.5
0.	A. VERIFY MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	Р	SDI QA/QC TABLE 1.6
	 B. VERIFY PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION. C. VERIFY PROPER STORAGE OF MECHANICAL FASTENERS. 	P P	SDI QA/QC TABLE 1.6 SDI QA/QC TABLE 1.6
7.	INSPECTION TASKS DURING MECHANICAL FASTENING: A. OBSERVE FASTENER SPACING AND POSITION.	Р	SDI QA/QC TABLE 1.7
8.	 B. VERIFY FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSPECTION TASKS AFTER MECHANICAL FASTENING: 	Р	SDI QA/QC TABLE 1.7
	A. VERIFY SPACING, TYPE AND INSTALLATION OF SUPPORT, SIDELAP, AND PERIMETER FASTENERS.	C	SDI QA/QC TABLE 1.8
	 B. VERIFY REPAIR ACTIVITIES. C. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES. 	C	SDI QA/QC TABLE 1.8 SDI QA/QC TABLE 1.8
IT-2	2E: COLD-FORMED STEEL FRAMING		
INS	SPECTION TASK	FREQ	REFERENCE
1.	FABRICATOR CERTIFICATION/VERIFICATION OF QUALITY CONTROL PROCEDURES A. VERIFY FABRICATOR QUALIFICATIONS.	C	 IBC 1704.2.5.1
	B. COLLECT CERTIFICATES OF COMPLIANCE FROM THE STEEL FABRICATOR AT COMPLETION FABRICATION.	OF C	IBC 1704.5
2.	FOR TRUSSES CLEAR SPANNING 60 FEET OR MORE, VERIFY THAT THE TEMPORARY INSTALLATI RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.	ION P GARE	IBC 1705.2.4
IT-3	3: CONCRETE CONSTRUCTION		
	INSPECTION TASK	FREO	REFERENCE
	 INSPECT REINFORCEMENT, INCLUDING POST-TENSIONING TENDONS (IF APPLICABLE), AND VERIFY PLACEMENT. DEINFORCING RAD WELDING: 	P	IBC 1908.4 ACI 318 20, 25.2, 25.3, 26.6.1-26.6.3
	A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 AND COLLECT REPORTS.	Р	IBC 1704.5 ACI 318 26.6.4
	B. INSPECT SINGLE-PASS FILLET WELDS $\leq 5/16$ ". C. INSPECT ALL WELDS OTHER THAN SINGLE-PASS FILLET WELDS $\leq 5/16$ ".	P C	ACI 318 26.6.4 ACI 318 26.6.4
	3. CONCRETE ANCHORS: A. INSPECT ANCHORS CAST IN CONCRETE.	Р	ACI 318 17.8.2
	B. INSPECT ADHESIVE ANCHORS INSTALLED IN HARDENED CONCRETE WITH HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS THAT RESIST SUSTAINED TENSION LOADS. PERIODIC INSPECTION REQUIRED FOR ALL OT CONDITIONS	C THER	ACI 318 17.8.2, 17.8.2.4
	CUNDITIONS. C. INSPECT MECHANICAL ANCHORS INSTALLED IN HARDENED CONCRETE.		ACI 318 17.8.2 IBC 1904 1 1904 2 1908 2 1908 2
	5. PRIOR TO CONCRETE PLACEMENT. FABRICATE SPECIMENS FOR STRENGTH TESTS	, C	ACI 318 19, 26.4.3, 26.4.4 IBC 1908.10 ACI 318 26.4. 26.12
	PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE THE CONCRETE.	OF	ASTM C31, C172
	6. INSPECT CONCRETE AND SHOTCRETE (IF APPLICABLE) PLACEMENT FOR PROPER APPLICATION TECHNIQUES.		IBC 1908.6-1908.8 ACI 318 26.5
			IDC 1704.5, 1908.5
	 9. INSPECTIONS FOR POST-TENSIONED CONCRETE: A. OBSERVE APPLICATION OF POST-TENSIONING FORCE 		ACI 318 26.10
	B. INSPECT GROUTING OF BONDED POST-TENSIONING TENDONS. 10. VERIFY CONCRETE STRENGTH PRIOR TO STRESSING OF POST-TENSIONING TEND		ACI 318 26.10 ACI 318 26.10 ACI 318 26.11.2
	AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM POST-TENSIONED/MILD BEAMS AND STRUCTURAL SLABS.		
	 11. INSPECT ERECTION OF PRECAST MEMBERS. 12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRET 	TE P	ACI 318 26.9 ACI 318 26.11.1.2(b)
	MEMBER BEING FORMED. 13. COLLECT MILL TEST REPORTS FOR ASTM A615 REBAR USED IN SPECIAL REINFORM	CED C	IBC 1704.5 ACI 318 20.2.2.5
	CONCRETE MOMENT FRAMES AND SPECIAL REINFORCED CONCRETE SHEAR WALLS	S.	

		Revisions	
#	Date	By	Description



 TEST AND VERIFY f'_m AND f'_{AAC} PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SF DURING CONSTRUCTION. TEST AND VERIFY PROPORTIONS OF MATERIALS IN PREMIXED/PREBLENDED MORTAR AND GROUT OTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE. TEST AND VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. VERIFY COMPLIANCE FOR THE FOLLOWING: A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DRACEMENT OF AGONCY UNITS AND CONSTRUCTION OF THIN BED MODITAR JOINTS. 	C C C P P P C C C C C C	ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530 TABLE 3.1.3 ACI 530.1 1.5B.1.b.3 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530.1 2.1, 2.4G.1b, 2.6A-C ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 TEST AND VERIFY PROPORTIONS OF MATERIALS IN PREMIXED/PREBLENDED MORTAR AND GROUT OTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE. TEST AND VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF- CONSOLIDATING GROUT. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. VERIFY COMPLIANCE FOR THE FOLLOWING: A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF ANG MASONRY UNITS AND CONSTRUCTION OF THE DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	C P P P C C C P C C	ACI 530 TABLE 3.1.3 ACI 530 TABLE 3.1.3 ACI 530.1 1.5B.1.b.3 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530.1 2.1, 2.4G.1b, 2.6A-C ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 UTHER THAN SELF-CONSOLIDATING, AS DELIVERED TO SITE. TEST AND VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX AS DELIVERED TO SITE FOR SELF-CONSOLIDATING GROUT. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. VERIFY COMPLIANCE FOR THE FOLLOWING: A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DIACEMENT OF AND CONSTRUCTION OF MASONRY DURING COLD (<40°F)	C P P P C C C P C C	ACI 530 TABLE 3.1.3 ACI 530.1 1.5B.1.b.3 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530.1 2.1, 2.4G.1b, 2.6A-C ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 CONSOLIDATING GROUT. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS. VERIFY COMPLIANCE FOR THE FOLLOWING: A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF GAUST UNITS AND CONSTRUCTION OF THIN BED MORTAR JOINTS.	P P C C C P C	1.5B.1.b.3 ACI 530 TABLE 3.1.3 ACI 530.1 1.5 ACI 530.1 2.1, 2.4G.1b, 2.6A-C ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 VERIFY COMPLIANCE FOR THE FOLLOWING: A. PROPORTIONS OF SITE-PREPARED MORTAR AND GROUT. B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. 	P P C C C P C	ACI 530.1 2.1, 2.4G.1b, 2.6A-C ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS. C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. 	P P C C C P C	ACI 530 6.1 ACI 530.1 2.4, 3.4 ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS. D. PLACEMENT OF REINFORCEMENT AND CONNECTORS. E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN RED MORTAR JOINTS. 	C C C P C C	ACI 530.1 3.3B ACI 530 6.1, 6.2.1, 6.2.6, 6.2.7 ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 E. GROUT SPACE IS CLEAN, AND CLEANOUTS ARE PROVIDED WHEN REQUIRED. F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN BED MODITAR JOINTS 	C C C C	ACI 530.1 3.2E, 3.4, 3.6A ACI 530.1 3.2D, 3.2F ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 F. PLACEMENT OF GROUT. G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN BED MODITAR JOINTS 	C P C C	ACI 530.1 3.5, 3.6C ACI 530.1 3.3F ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. DI ACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN BED MORTAR JOINTS 	C C	ACI 530 1.2.1(e), 6.1.4.3, 6.2.1
 MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. I. WELDING OF REINFORCEMENT. J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER. K. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN RED MORTAR JOINTS. 	С	
J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (<40°F) WEATHER OR HOT (>90°F) WEATHER.		ACI 530 8.1.6.7.2, 9.3.3.4(c),
WEATHER OR HOT (>90°F) WEATHER.	Р	11.3.3.4(b) ACI 530.1 1.8C, 1.8D
	C	ΔCI 530 1 3 3B 9 3 3F 1h
L. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	C	ACI 530.1 2.1C.1
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	Ĺ	ACI 530.1 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4
: SOILS	5250	
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN	<u>гке</u> Р	<u>KEFEKENCE</u> IBC 1705.6
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	Р	IBC 1705.6
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT HEIGHTS DURING PLACEMENT AND	P C	IBC 1705.6 IBC 1705.6
COMPACTION OF COMPACTED FILL. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT THE SITE HAS	Р	IBC 1705.6
BEEN PREPARED PROPERLY.		
2: SEISMIC RESISTANCE		
INSPECTION TASK 1. PRIOR TO ANY WORK TAKING PLACE, EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC FORCE-RESISTING SYSTEM (SFRS) OR COMPONENT SHALL SUBMIT A WRITTEN STATEMENT OF CONTRACTOR RESPONSIBILITY	FREQ C	REFERENCE IBC 1704.4
2. STRUCTURAL STEEL (SEE IT-13 TABLES). [SDC \geq D OR SDC \geq B WHERE R > 3]		IBC 1705.12.1
□ 3. STRUCTURAL WOOD [SDC \geq C] (*) A. VERIFY FIELD GLUING OPERATIONS OF ELEMENTS OF THE SFRS.	С	IBC 1705.12.2
B. INSPECT NAILING, ANCHORING, AND FASTENING OF COMPONENTS WITHIN THE SFRS INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, AND HOLD-DOWNS.	Ρ	IBC 1705.12.2
□ 4. COLD-FORMED STEEL FRAMING CONSTRUCTION [SDC \geq C] (*) A. INSPECT WELDING OPERATIONS AT ELEMENTS OF THE SFRS.	Р	IBC 1705.12.3
B. INSPECT SCREW ATTACHMENT, BOLTING, ANCHORING, AND FASTENING OF ELEMENTS WITHIN THE SERS.	Р	IBC 1705.12.3
C. INSPECT SPECIAL BOLTED MOMENT FRAMES. [SDC \geq D]	P	IBC 1705.12.9
AND VENEER TALLER THAN 30' ABOVE FINISHED GRADE. [SDC \geq D]	P	IDC 1703.12.5
6. CONFIRM ANCHORAGE OF ACCESS FLOORS. [SDC \geq D] 7. CONFIRM ANCHORAGE OF STORAGE RACKS AT LEAST 8' TALL. [SDC \geq D]	P P	IBC 1705.12.5.1 IBC 1705.12.7
 COLLECT CERTIFICATES OF COMPLIANCE FOR QUALIFYING EQUIPMENT, SUPPORTS, ATTACHMENTS, AND COMPONENTS; VERIFY CORRECTNESS OF LABELS AND INSTALLATION. ISDC > CI. 	С	IBC 1705.12.4, 1705.13.2 ASCE 7 13.2.1, 13.2.2
9. PLUMBING, MECHANICAL, AND ELECTRICAL COMPONENTS	2	IPC 1705 12 C
A. VERIFI ANUTOKAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS. [SDC \geq C]	۲	
B. VERIFY INSTALLATION AND ANCHORAGE OF PIPE AND DUCT SYSTEMS CARRYING HAZARDOUS MATERIALS AND ASSOCIATED MECHANICAL UNITS. [SDC ≥ C]	Р	IBC 1705.12.6
C. CONFIRM THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS WITH NOMINAL CLEARANCES < 1/4" [SDC > C]	Р	IBC 1705.12.6
D. INSPECT AND TEST SEISMIC ISOLATION SYSTEMS AT SEISMICALLY ISOLATED	Р	IBC 1705.12.8, 1705.13.4 ASCE 7 17.8

B. VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRE-TENSIONING.

DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS AFTER HIGH-STRENGTH

THE MOST RIGID POINT TOWARDS FREE EDGES.

INSPECTION IS ONLY REQUIRED FOR SDC \geq D, OR SDC \geq B WHERE R > 3.

BOLTING IS COMPLETE.

IN THE PROTECTED ZONE.

C. VERIFY FASTENER COMPONENTS NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.

D. ENSURE FASTENERS ARE PRE-TENSIONED IN ACCORDANCE WITH RCSC, PROGRESSING FROM

VERIFY CONTOUR, FINISH, AND DIMENSIONAL TOLERANCES OF REDUCED BEAM SECTIONS (RBS). ENSURE NO HOLES OR UNAPPROVED ATTACHMENTS ARE MADE BY THE FABRICATOR OR ERECTOR

AISC 341 TABLE J7.2

AISC 341 TABLE J7.2

AISC 341 TABLE J7.2

AISC 341 TABLE J7.3

AISC 341 TABLE J8.1 AISC 341 TABLE J8.1

0

0

0

0

0 0

ISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL		
I TASK	<u>FREQ</u>	REFERENCE
CTIONS PRIOR TO WELDING:		
ONFIRM WELD MATERIAL TYPE AND GRADE.	0	AISC 341 TABLE J6.1
ONFIRM METHOD OF WELDER IDENTIFICATION.	0	AISC 341 TABLE J6.1
NSPECT FIT-UP AND JOINT GEOMETRY FOR GROOVE WELDS, INCLUDING JOINT	0	AISC 341 TABLE J6.1
REPARATION, DIMENSIONS, ALIGNMENT, ROOT OPENING, ROOT FACE AND BEVEL,		
LEANLINESS OF STEEL SURFACES, TACK WELD QUALITY AND LOCATION, AND BACKING		
YPE AND FIT.		
NSPECT ACCESS HOLE CONFIGURATION AND FINISH.	0	AISC 341 TABLE J6.1
NSPECT FIT-UP FOR FILLET WELDS, INCLUDING DIMENSIONS, ALIGNMENT, ROOT GAPS,	0	AISC 341 TABLE J6.1
LEANLINESS OF STEEL SURFACES, TACK WELD QUALITY AND LOCATION.		
CTIONS DURING WELDING:		
IONITOR PROPER IMPLEMENTATION OF WELDING PROCEDURE SPECIFICATION (WPS),	0	AISC 341 TABLE J6.2
VCLUDING SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS		
ELECTED, SHIELDING GAS TYPE AND FLOW RATE, PREHEAT APPLICATION, INTERPASS		
EMPERATURE MAINTAINED, WELD POSITION (F, V, H, OH), AND INTERMIX OF FILLER		
ETALS AVOIDED (UNLESS APPROVED BY THE RDPIRC).	0	
ERIFY WELDER QUALIFICATIONS.	0	AISC 341 TABLE J6.2
ERIFY PROPER CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING	0	AISC 341 TABLE JO.2
AUKAGING AND EXPUSURE.	0	
NO TEMPEDATINE ADE WITHIN DEEINED LIMITC	0	AISC 341 TADLE JO.2
EDIEV WEI DING TECHNIQUES, INCLUDING INTEDDASS AND EINAL CLEANING, EACH DASS	0	
ITHIN DOCELE LIMITATIONS AND EACH DASS MEETS OLIALITY DEOLIDEMENTS	0	AISC 541 TABLE 50.2
NSPECT WEI DING TECHNIQUES, AND LACHTAGS MEETS QUALITY REQUIREMENTS.	0	AISC 341 TABLE 16 2
CTIONS AFTER WEIDING:	0	
ERIFY WELDS HAVE BEEN CLEANED.	0	AISC 341 TABLE J6.3
ONFIRM THE INSTALLED SIZE, LENGTH, AND LOCATION OF WELDS MATCHES THE	Ċ	AISC 341 TABLE J6.3
ONTRACT DOCUMENTS.		
ERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA, INCLUDING CRACK PROHIBITION,	С	AISC 341 TABLE J6.3
/ELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES AND SIZE,		
NDERCUT, AND POROSITY.		
NSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD FOR DOUBLER PLATES,	С	AISC 341 TABLE J6.3
ONTINUITY PLATES OR STIFFENERS AND BE PERFORMED NO SOONER THAN 48 HOURS		
OLLOWING COMPLETION OF THE WELDING.		
ONFIRM PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS.	С	AISC 341 TABLE J6.3
ERIFY BACKING AND WELD TABS ARE REMOVED (AS REQUIRED), FINISHED, AND FILLET	С	AISC 341 TABLE J6.3
/ELDS ADDED.		
BSERVE AND INSPECT WELD REPAIR ACTIVITIES.	С	AISC 341 TABLE J6.3

ON IS ONLY REQUIRED FOR SDC \geq D, OR SDC \geq B WHERE R > 3.

SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED JOINTS

N TASK RM ULTRASONIC TESTING (UT) ON 100% OF PARTIAL JOINT PENETRATION (PJP) GROOVE S IN COLUMN SPLICES AND COLUMN TO BASE PLATE WELDS. ETE JOINT PENETRATION (CIP) GROOVE WELDS IN MATERIALS $> 5/(16)$ THICK	<u>FREQ</u> C	REFERENCE AISC 341 J6.2b
ERFORM UT ON 100% OF CJP GROOVE WELDS IN MATERIALS 2 5/10 THICK ERFORM UT ON 100% OF CJP GROOVE WELDS, EXCEPT FOR ORDINARY MOMENT FRAMES	С	AISC 341 J6.2a, J6.2g AWS D1.1
ERFORM MAGNETIC PARTICLE TESTING (MT) ON 25% OF BEAM-TO-COLUMN CJP GROOVE VELDS, EXCEPT FOR ORDINARY MOMENT FRAMES FOR WHICH ONLY DEMAND CRITICAL	Р	AISC 341 J6.2a, J6.2h
T THE END OF WELDS WHERE WELD TABS HAVE BEEN REMOVED (EXCLUDING CONTINUITY LATE WELD TABS), PERFORM MT ON 100% OF BEAM-TO-COLUMN JOINTS RECEIVING UT IN CCORDANCE WITH ITEM 2.A.	С	AISC 341 J6.2f, J6.2h
DE UT FOR BASE METAL LAMELLAR TEARING AND LAMINATIONS AT BASE METAL THICKNESS 2" LOADED IN TENSION IN THROUGH-THICKNESS DIRECTION, IN TEE AND CORNER JOINTS 5 CONNECTED MATERIAL IS $> 3/4$ " AND CONTAINS CIP GROOVE WELDS.	С	AISC 341 J6.2c AWS D1.1 TABLE 6.2
LDED SPLICES AND CONNECTIONS, PERFORM MT OR PENETRANT TESTING AT THERMALLY JRFACES OF BEAM COPES AND ACCESS HOLES FOR ROLLED SECTIONS WITH tf > 1 1/2" AND UP SHAPES WITH tw > 1 1/2".	С	AISC 341 J6.2d
RM MT ON WELDS AND ADJACENT AREAS OF REDUCED BEAM SECTION (RBS) CUT SURFACES RED BY WELDING, OR ON BASE METAL OF RBS CUT SURFACES IF A SHARP NOTCH WAS /ED BY GRINDING.	С	AISC 341 J6.2e

ON IS ONLY REQUIRED FOR SDC \geq D, OR SDC \geq B WHERE R > 3.

(TERIOR INSULATION AND FINISH SYSTEMS (EIFS)

<u>N TASK</u> Y THAT EIFS IS INSTALLED IN CONFORMANCE WITH CONTRACT DOCUMENTS. VATER-RESISTIVE BARRIER COATING COMPLYING WITH ASTM E2570 IS INSTALLED OVER A THING SUBSTRATE, VERIFY THAT THE WATER BARRIER AND DRAINAGE STRIP ARE INSTALLED INFORMANCE WITH THE CONTRACT DOCUMENTS.	FREQ P P	<u>REFERENCE</u> IBC 1705.16 IBC 1705.16.1
N IS NOT REQUIRED FOR EIFS APPLICATIONS INSTALLED OVER A WATER-RESISTIVE BARRIER	THAT DRAINS	S TO THE EXTERIOR OR EIFS

IONS INSTALLED OVER MASONRY OR CONCRETE WALLS.

IT-17: FIRE-RESISTANT PENETRATIONS AND JOINTS					
INSPECTION TASK I. INSPECT THROUGH-PENETRATION FIRESTOP SYSTEMS AT FIRE WALLS, FIRE BARRIERS, SMOKE BARRIERS AND FIRE PARTITION WALLS IN ACCORDANCE WITH ASTM E2174. INSPECT DESCRIPTION FIRESTOP SYSTEMS AT DESCRIPTIONS TUPOLICUL MEMORIANES THAT ARE	FREQ P	REFERENCE IBC 714.4.1.2, 1705.17.1			
 2. INSPECT PENETRATION FIRESTOP SYSTEMS AT PENETRATIONS THROUGH MEMBRANES THAT ARE PART OF A HORIZONTAL ASSEMBLY IN ACCORDANCE WITH ASTM E2174. A. VERIFY MATERIALS BEFORE INSTALLATION. B. VERIFY INSTALLATION AGAINST THE CONTRACT DOCUMENTS AND APPROVED MATERIAL /INSTALLATION SUBMITTALS 	P P	IBC 714.5.2, 1705.17.1 IBC 714.5.2, 1705.17.1			
 C. FOR EACH TYPE OF FIRESTOP, WITNESS 10% OF INSTALLATIONS – OR DESTRUCTIVE TESTING ON 2% OF INSTALLATIONS FOR 10,000 SF FLOOR AREA. 3. INSTALLATION OF FIRE-RESISTANT JOINT SYSTEMS IN ACCORDANCE WITH ASTM E2393 	Р	IBC 714.5.2, 1705.17.1			
 A. VERIFY MATERIALS BEFORE INSTALLATION. B. VERIFY INSTALLATION AGAINST THE CONTRACT DOCUMENTS AND APPROVED MATERIAL/INSTALLATION SUBMITTALS. 	P P	IBC 715.3, 715.4, 1705.17.2 IBC 715.3, 715.4, 1705.17.2			
C. FOR EACH TYPE OF JOINT SYSTEM, WITNESS INSTALLATION OF A MINIMUM OF 5% OF THE TOTAL LINEAL FEET BEING INSTALLED – OR DESTRUCTIVE TESTING, DISASSEMBLY, OR VISUAL INSPECTION AT LEAST THE RATE OF 1 SAMPLE FOR EVERY 500 LINEAL FEET BEING INSTALLED.	Р	IBC 715.3, 715.4, 1705.17.2			
INSPECTION IS ONLY REQUIRED FOR HIGH-RISE BUILDINGS OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV. ADDITIONS, CHANGES OF USE, EVALUATIONS PER CHAPTER 14 OF THE IEBC, AND LEVEL 3 ALTERATIONS WITHIN EXISTING HIGH-RISE BUILDINGS OR BUILDINGS ASSIGNED TO RISK CATEGORY III OR IV SHALL ALSO REQUIRE THESE INSPECTIONS.					

	Revisions		APPROVAL: DATE:
# Date By	Revisions	BITT. ALL RIGHTS RESERVED.	APPROVAL: DATE: DATE: STEWART 223 S. WEST STREET, SUITE 1100 RALEIGH, NC 27603 T919.380.8750 FIRM LICENSE #F-1536 CARO O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O46260 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O50 O5
		COPYRIGHT © 2024 BOBE	TOORDINATOR: JGF DRAWN BY: VNA CHK BY: TWM - UHU UHU UHU UHU UHU UHU UHU UHU UHU U
			NOLON KO NOLON KA 24 X 36 1" = 1'-0" 24-0013 SPECIAL INSPECTIONS SOLOS OF 20



1/8" = 1'-0" FLOOR FRAMING PLAN NOTES:

1. SEE S0.1 THROUGH S0.3 FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOL LEGEND. 2. SEE S--- FOR TYPICAL SLAB CONSTRUCTION DETAILS.





2'-0" #7@12"OC #7@12"OC

OF 20

SEE PLAN SEE PLAN

F9L







3 SECTION S2.2 1/2" = 1'-0"











	VAPOR BARRIER TO BE CONT BELOW TRENCH DRAIN 4" #57 STONE BELOW TRENCH DRAIN NOTES: 1. COORDINATE TRENCH LOCATIONS AN 2. SEE PLUMBING DRAWINGS FOR TRENC
	7 TRENCH DRAIN IN AP \$3.1 NTS
M1 72637 190004	



		CONCRETE	REINFORCING D	OWEL EMBE
				EMBEDMENT, "D"
	DAR SIZE	LEG DIM, L	f'c = 3,000 PSI	f'c = 4,000 PS
	#3	6"	6"	6"
	#4	8"	8"	7"
	#5	10"	10"	9"
	#6	12"	12"	10"
	#7	14"	14"	12"
	#8	16"	16"	14"
	#9	19"	18"	15"
	#10	22"	20"	17"
	#11	24"	22"	19"

2UCT_V24.I	
E Stati	
003_ Lillingt	
no 3/524	
A Fire Stati	
oos://Lillingtc	
Autodesk Do	
225 4:35:33	
4/1/2	

CONDUTT SLEEVE; S
NOTES: NOTES: NOTES: NOTES: REFER TO PME DRAWING SMALLER. CONTRACTOR LAYOUT. IF SPACING CAI GROUPED BELOW CMU L CONDUITS SHALL NOT P PIPES WITH LIQUID, GAS VERTICALLY WITHIN WAI PIPES WITH PRESSURE I WITHIN WALLS. PIPES WITH WATER OR LI VERTICALLY WITHIN WAI ALLOWABLE WALL CON SA.2 NTS

_	
1010	
No 2 C	
Ctotion	
aton Eir	
0100/0	
official NLC	
to ofice	
" illinatoo	
D000///	
Joopotin	
╞	
╞	
ļ	
0.0 1000	
01101	

		MASONR	RY WALL SC	CHEDULE		
			VERTICAL REINFORCING			
			8" (VERTICAL REINFORCING	CMU END WALL REINFORCING	HORIZONTAL REINFORCING	
		MEZZANINE BEARING WALLS	#5@32"OC	(1)#6	9 GA LADDER TYPE @16"OC	
	NOTE 1. PF B, 2. D W 3. AA E VI 4. R IN 5. PF W 6. AA IN 1. AU 2. W 3. PF 51 0 2. AA AU 2. AA AU 2. AA AU 4. AU 5. F W 8. AA 1. N 2. W 3. PF 5. F 5. F 1. AA 0 2. AA AU 4. AU 5. F 5.	S: (AVIDE DOWELS EXTENDIN ARS. SIZE AND LOCATION (ARS. SIZE AND LOCATION (ALLS WITH 2 1/2" EMBED I L NON-LOAD BEARING, NC THER VERTICALLY OR HOR RITICAL SPANNING WALLS (ALLS AND AS INDICATED I L MASONRY TO BE CONSTI- ITERLOCKING CORNERS. ZONTAL SPANNING WALLS: ALLS CAN NOT SPAN HORI: ALLS TO BE INTERLOCKED (AUSTICAL SPANNING WALLS: L VERTICAL SPANNING WALLS: MALS NOT EXTENDING CORDANCE WITH OTHER I (AUSTICAL SPANNING WALLS) DRCING SCHE	AG INTO FOUNDA DE DOWELS TO I E ALL VERTICAL INTO CONCRETE DN-SHEAR WALLS IZONTALLY. SEE IN DETAILS. WALL LOCATION LUMNS, WINDOW, ETC. REFER TO ND BEAM AT EAC N SECTIONS AN RUCTED IN RUN E CONTALLY GREA WITH "T" TYPE ES @24"OC ON O ALLS ARE TO BE TO STRUCTURE DETAILS.	ATIONS FOR ALL M MATCH VERTICAL REINFORCING FO SLAB. S, INTERIOR PART E GUIDELINES BEI S. ENDS OF SHEA NS, DOORS, END DETAILS FOR EN CHEVATED FLO D SCHEDULES. NING BOND BEAM TER THAN 36 TIM HORIZONTAL LAD COLUMNS ADJACE ANCHORED TO ST SHALL BE LATERA	/ERTICAL REINFORCIN REINFORCING. R INTERIOR NON-BEAL ITION WALLS SHALL S .OW FOR HORIZONTAL R WALLS OCCUR AT W OF WALLS, CONTROL D OF WALL REINFORCI OR LEVEL AT TOPS OF PATTERN WITH ES THE WALL THICKN DER TYPE REINFORCI INT TO HORIZONTALLY TEEL STRUCTURE PER ALLY BRACED IN	

TE STEEL DECK PROPERTIES								
In	Sp	Sn	Fy					
1 in ⁴ /ft	0.263 in ³ /ft	0.346 in ³ /ft	50 ksi					
6 in ⁴ /ft	0.341 in ³ /ft	0.346 in ³ /ft	50 ksi					
8 in ⁴ /ft	0.495 in ³ /ft	0.504 in ³ /ft	50 ksi					
9 in ⁴ /ft	0.414 in ³ /ft	0.426 in ³ /ft	50 ksi					
9 in ⁴ /ft	0.534 in ³ /ft	0.551 in ³ /ft	50 ksi					
2 in ⁴ /ft 0.770 in ³ /ft 0.797 in ³ /ft 50 ksi								

2	RED COMPOSITE STEEL DECK SPANS						
	SINGLE SPAN	TWO SPAN	THREE SPAN	FIRE RATING RESTRAINED	WWF		
	12'-6" MAX	14'-10" MAX	14'-7" MAX	2HR	6x6-W1.4xW		
	8'-8" MAX	9'-7" MAX	9'-11" MAX	3HR	6x6-W1.4xW		
	8'-3" MAX	9'-1" MAX	9'-5" MAX	1HR	6x6-W1.4xW		
	7'-8" MAX	8'-6" MAX	8'-9" MAX	2HR	6x6-W1.4xW		
	10'-4" MAX	11'-0" MAX	11'-4" MAX	1HR	6x6-W1.4xW		

1HR

6x6-W1.4xW1.4

36" WIDTH

FLOOR DECK ATTACHMENT DETAIL

	NON-LOAD BE	ARING EXTE	RIOR V	VALL CONST	RUCTION SC	CHEDULE
STORY	TYPE	SIZE/GAUGE	Fy	SPACING	BRIDGING	NO
2ND FLOOR TO	EXTERIOR	600S162-54	33 KSI	8"OC	4'-0"OC MAX	-
TOP OF WALL	EXTERIOR, CORNER ZONE	600S162-54	33 KSI	8"OC	4'-0"OC MAX	CORNER ZONE WI

2. "Fy" INDICATES MINIMUM YIELD STRENGTH.

3. SEE S-/--- FOR TYPICAL DETAILS.

$\begin{pmatrix} \delta \\ S52 \end{pmatrix}$ NTS

	4 rvt	
	ILCT V2	
	3 STR	
	station No	
	on Fire S	
	3 Lillinot	
	3/22400	
	ation No	
	n Fire St	
	/l illinato	
	k Doce./	
	╞	
	╞	
M44 19 92 C 19 72 C 19		
Md 1 1982 5 13 296 14		
9)19(2024 3:26:41 PM		
9/19/2024 3:26:41 PM		
9/19/20024 3:26:41 PM	ļ	
9/19/2024 3:	76-41 PM	
9 7/5	2.5 1000	
	a/10	
	L	

Scale: None

SEISMIC AND WIND REQUIREMENTS **RISK CATEGORIES I, II & III INFORMATION FOR IBC-2015 / ASCE 7-10**

REFER TO ARCHITECTURAL DRAWINGS TO DETERMINE RISK CATEGORY AND SEISMIC DESIGN CATEGORY. THE SUB-CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINTS ON ALL MECHANICAL COMPONENTS AS REQUIRED PER THE FOLLOWING REQUIREMENTS. THE SUB-CONTRACTOR SHALL SUBMIT DETAILED SEISMIC RESTRAINT SHOP DRAWINGS SHOWING ALL DESIGN COMPONENTS. THE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED ENGINEER.

COMPONENT IMPORTANCE FACTOR (Ip)

lp	= 1.0	
 AIR HANDLING UNITS (FLOOR) AIR HANDLING UNITS (SUSP) AIR SEPARATOR AIR SEPARATORS & EXP. TANKS CABINET HEATERS (SUSP) CABLE TRAY, BUS DUCT, TRAPEZE SUPPORTED CONDUIT > 10 LB/FT (NOTE 6) CEILING DIFFUSERS ≥ 20 LB CEILING FANS < 20 LB CEILING FANS < 20 LB CEILING FANS < 20 LB CHILLED WATER PIPING CHILLERS (ROOF OR UPPER FLOORS) CHILLERS (ON GRADE) COOLING TOWERS (ON GRADE) COOLING TOWERS (NOOF) DOMESTIC WATER DUCT ELECTRIC WATER HEATERS EXPANSION TANK FAN VAV TERMINAL GENERATORS (UPPER FLOORS) HOT WATER PIPING INLINE FANS 	 INLINE PUMPS < 5 HP INLINE PUMPS ≥ 5 HP INSTRUMENTATION CABINETS MOTOR CONTROL CENTERS PACKAGED RTU < 5 TONS PACKAGED RTU > 5 TONS PANEL BOARDS PENDANT LIGHTING PUMPS (ON GRADE) < 7.5 HP PUMPS (ON GRADE) > 7.5 HP PUMPS (UPPER FLOORS) RECESSED LIGHTING ROOF EXHAUST FANS STORM DRAIN PIPING SWITCHGEAR TRANSFORMERS UNIT HEATERS (SUSP) UTILITY SETS (FLOOR) UTILITY SETS (SUSP.) VACUUM PUMPS VAV (NON-FAN) TERMINAL < 20 LB VAV (NON-FAN) TERMINAL ≤ 20 LB WALL MOUNT FANS WALL MOUNT FANS WALL MOUNT FANS WALL-MOUNTED LIGHTING WASTE, VENT PIPING WASTE, VENT PIPING WATER SOURCE HEAT PUMP (FLOOR) WATER SOURCE HEAT PUMP (SUSP.) 	

PER THE 2015 INTERNATIONAL BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-10. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-10. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.

REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.

SEE EQUIPMENT SCHEDULES AND DETAILS FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.

G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL H. WHERE SEISMIC RESTRAINT IS REQUIRED, HOUSEKEEPING PADS NEEDED FOR THE INSTALLATION OF EQUIPMENT UNDER THIS CONTRACT MUST BE DESIGNED BY THE SEISMIC ENGINEER. DO NOT POUR ANY HOUSEKEEPING PADS PRIOR TO THE THE RECEIPT OF THE APPROVED SEISMIC SUBMITTAI I. SEISMIC RESTRAINTS FOR DUCTWORK, PIPING, CONDUIT, CABLE TRAY AND BUS DUCT MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

		SEISMIC DESIG	IN CATEGO	DRY C				SEISMIC DESIGN	CATEGOR	RIES D, E, F	
			COMPONE	ENT IMPORTANCE FACTOR (Ip)					COMPONENT IMP	PORTANCE FACTOR (lp)	
		1.0		1.5				1.0	•	1.5	
COMPONENT IDEN	ITIFICATION	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE	COMPONENT I	DENTIFICATION	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE
ROOF MOUN	NTED	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5	ROOF M	IOUNTED	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
FLOOR MOU	NTED	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5	FLOOR N	IOUNTED	RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
WALL MOUN	NTED	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5	WALL M	OUNTED	RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
COMPONENT SL	JPPORTS	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.6.5	COMPONEN	T SUPPORTS	RESTRAIN ALL (SEE NOTE 1)	13.6.5	RESTRAIN ALL	13.6.5
SUSPENDED EQUIPMENT	INLINE W/ DUCT/PIPE	NOT REQUIRED	13.1.4.5	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 1)	13.6.7	SUSPENDED EQUIPMENT	INLINE W/ DUCT/PIPE	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7
	NOT INLINE W/ DUCT/PIPE	NOT REQUIRED	13.1.4.5	RESTRAIN ALL	13.1.4.5		NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCT (STEEL, ALUMINUM, C	ILE PIPING OPPER, ETC.)	NOT REQUIRED	13.1.4.5	RESTRAINT IF > 2" (SEE NOTE 2)	13.6.8.3.3.a	SUSPENDED D (STEEL, ALUMINU	UCTILE PIPING M, COPPER, ETC.)	RESTRAIN IF > 3" (SEE NOTE 4)	13.6.8.3.3.c	RESTRAINT IF > 1" (SEE NOTE 4)	13.6.8.3.3.b
SUSPENDED NON DU (CAST IRON, PLASTI	CTILE PIPING C, CERAMIC)	NOT REQUIRED	13.1.4.5	RESTRAIN ALL (SEE NOTE 2)	13.6.8.3.3	SUSPENDED NON (CAST IRON, PLA	N DUCTILE PIPING ASTIC, CERAMIC)	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3
SUSPENDED PIPE C	N TRAPEZE	NOT REQUIRED	13.1.4.5	RESTRAIN IF ANY PIPE ON TRAPEZE > 2" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 2)	13.6.8.3.1	SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1
DUCT	WORK	NOT REQUIRED	13.6.7	RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 2,3)	13.6.7	DUCT	WORK	RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7
MULTIPLE DUCTS O	N TRAPEZE	NOT REQUIRED	13.6.7	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 2,3)	13.6.7	MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7
SINGLE CON	DUIT	NOT REQUIRED	13.6.5.6	RESTRAIN IF ≥ 2.5" (SEE NOTE 2)	13.6.5.6	SINGLE CONDUIT		RESTRAIN IF ≥ 2.5" (SEE NOTE 4)	13.6.5.6	RESTRAIN IF ≥ 2.5" (SEE NOTE 4)	13.6.5.6
CABLE TRAY/BU TRAPEZED CO	S DUCT/ NDUIT	NOT REQUIRED	13.6.5.6	RESTRAIN IF TOTAL WEIGHT OF RACEWAY > 10 LBS/FT (SEE NOTE 2)	13.6.5.6	CABLE TRAY TRAPEZED	//BUS DUCT/) CONDUIT	RESTRAIN IF TOTAL WEIGHT OF RACEWAY > 10 LBS/FT (SEE NOTE 4)	13.6.5.6	RESTRAIN IF TOTAL WEIGHT OF RACEWAY > 10 LBS/FT (SEE NOTE 4)	13.6.5.6
PENDANT, LAY-IN, &	CAN LIGHTS	REQUIRED (SEE NOTE 4)	13.5.6.2	REQUIRED (SEE NOTE 4)	13.5.6.2	PENDANT, LAY-II	N, & CAN LIGHTS	REQUIRED (SEE NOTE 6)	13.5.6.2	REQUIRED (SEE NOTE 6)	13.5.6.2
COMPONENT CERTIFICATION		NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 5)	13.2.2	COMPONENT C	CERTIFICATION	NOT REQUIRED	13.2.2	REQUIRED (SEE NOTE 7)	13.2.2

TABLE NOTES: 1. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.

2. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK / CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE

GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580.

5. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

DUCTWORK, PIPING, AND CONDUIT.

TABLE NOTES

- CONDUIT. 3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
- GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.
- SUBMITTAL FOR REVIEW BY ENGINEER OF RECORD.

lp = 1.5

AIR COMPRESSORS **BOILERS (ON GRADE)**

BOILERS (UPPER FLOORS COMPRESSED AIR PIPING DUCT USED FOR SMOKE CONTROL EMERGENCY, STANDBY, LIFE SAFETY COMPONENTS FLASH TANK GAS PACKAGED RTU ≤ 5 TONS GAS PACKAGED RTU > 5 TONS GAS PIPING GAS UNIT HEATERS (SUSP) GAS WATER HEATERS **KITCHEN HOODS** STEAM CONDENSATE PIPING STEAM PIPING STEAM TO WATER HEAT EXCHANGERS STEAM WATER HEATERS SUSPENDED GAS FURNACE

I. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED

. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHTS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND

4. RESTRAINT IS NOT REQUIRED IF THE PIPING / DUCTWORK / CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD. 5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE

6. THE RESTRAINT OF PENDANT, LAY-IN, & CAN LIGHTS IS ADDRESSED IN ASTM C636 & E580. 7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT TIME OF

37491

Plumbing Specifications:

- 1. These plans are diagrammatic only. Contractor shall provide all necessary offsets, elbows, tees, etc for a
- complete working system. 2. Contractor shall obtain and pay all fees related to permitting, inspections, taps, etc. Coordinate with GC to confirm
- none of these costs are covered by them. 3. All work shall be coordinated with all other trades prior to installation. Contractor shall coordinate routing of all piping with existing and new conditions and shall provide any necessary rerouting, offsets, etc. required for a
- completely coordinated and working system.
- New portion of the domestic water system shall be purged of damaging matter and disinfected in accordance with 5. 2018 NC Plumbing code. Remove dirt and debris as work progresses. Submit third-party witness reports of purging and disinfecting activities.

4. The plumbing system shall be installed in accordance with 2018 NC plumbing code and local AHJ requirements.

- 6. All plumbing systems shall be tested as required per 2018 NC Plumbing Code.
- 7. All piping systems shall be strapped and supported as required by 2018 NC Plumbing Code & the manufacturer's recommendations. 8. Plumbing contractor shall provide cleanouts in compliance with IPC section 708, as well as the following locations:
- as indicated on plans - at the base of the waste stack
- at every two 90° turns or every four 45° turns - on all horizontal waste line, no further than 100 feet apart
- 9. Plumbing fixtures with automatic or quick-closing valves and kitchen equipment shall have a shock arrestors, piston type water hammer arrestor, sized according to manufacturer's recommendations & PDI standards.
- 10. All overhead domestic water piping (above slab) shall be type "L" copper with 95/5 lead free solder. All below grade water piping shall be type "K" soft copper. Each complying with ASTM B-88. All piping shall have manufacturers name and the applicable standard to which it was made clearly labeled on each length. Contractor shall use brazed joints on all piping 1 1/2" and larger.
- 11. Water piping shall be insulated with closed cell (Armacell) type insulation with a smoke density rating not exceeding 50 and a flame density rating not exceeding 25. Thickness for cold water piping insulation shall be 1/2" thick, thickness for hot water & return piping insulation shall be 1" thick.
- 12. Branch lines and base of risers shall have, shut-off valves. All domestic water ball valves shall be a brass body, full port, with a chrome plated ball, Teflon seals, 600 WOG, for sizes 1/2" thru 3". Sizes above 3" shall be a bronze gate valve, NRS, solid disc, cutoff valve, screw-over bonnet, 400 WOG. Provide valve handle extensions if necessary due to insulation.
- 13. Storm, waste, and vent piping, above slab, shall be PVC Schedule 40 DWV with piping and fittings conforming to ASTM D-2665.
- 14. The backflow prevention device shall be installed as required per local AHJ. Purge water piping before setting backflow preventer.
- 15. Sanitary sewer piping shown is below slab or within walls unless otherwise noted. Sanitary vent piping shown is within wall and above ceiling unless otherwise noted.
- 16. Domestic water piping shown on drawing is above ceiling or within walls unless otherwise noted.
- 17. The plumbing contractor shall coordinate all underslab plumbing piping with all structural foundations and footings and all underslab plumbing piping elevation inverts with site utility.
- 18. All piping penetrations thru new or existing walls and/or floors shall be sealed to equal the rating of the new or existing wall or floor. 19. All vent thru the roof penetrations shall be coordinated with the general contractor. Plumbing contractor shall
- provide all flashing material required for vent thru roof. Vents thru the roof shall be located a minimum of 10'-0" away from all fresh air intakes. 20. Contractor shall coordinate any plumbing work requiring shutdown with the owner 72 hours in advance. If other
- users will be affected, coordinate with owner/building management at the beginning of the project to find a workable solution. 21. Plumbing contractor shall provide shop drawings to the engineer for review and approval prior to beginning work.

RD

SRD

Plumbing Legend and Abbreviations

Grease Waste Piping 'GW'
Sanitary Sewer Piping 'W'
Existing Sanitary Sewer Piping 'EX W
Vent Piping 'V'
Existing Vent Piping 'EX V'
Cold Water Piping 'CW'
Existing Cold Water Piping 'EX CW'
Hot Water Piping 'HW'
Hot Water Piping 140°F 'HW'
Existing Hot Water Piping 'EX HW'
Hot Water Return Piping 'HWR'
Check Valve
Ball Valve
Pressure Reducing Valve 'PRV'
Gate Valve 'GV'
Tee Turns Up
Tee from Below
Ell Turns Up
Ell Turns Down
Capped Line
Connect to Existing
Existing to Remain
Electric Water Heater
Gas Water Heater
Instantaneous Water Heater
Recirculation Pump
Vent Through Roof
Air Admittance Valve
Primary Roof Drain
Secondary Roof Drain

General Notes:

- The domestic water for the building is protected by an existing 2" RPZ backflow preventer. The backflow preventer is located in a hot box on site.
- Contractor shall provide Schedule 40 PVC-DWV (conforming to ASTM D2665) fittings for S,W, & V indicated on plans. • Contractor may run 3" waste pipe at 1/8" slope where 2 1/2" or smaller would be
- acceptable for the DFUs but not allow for the proper code required 1/4" sloping and fit in the given space.
- This building is required to be seismicly rated. See sheet MEP1.1 for Component Importance factors and fire penetration details.

Plan Notes:

- 1. Provide 3/4" HW & CW connections for washer/extractor
- 2. See site plan for continuation of 2" water service. RPZ backflwo preventer is in hot box on site.
- 3. Install air compressor on mezzanine. Air compressor shall be a 5 horsepower reciprocating 2-stage compressor with 80 gallon tank and 15 CFM refrigerated air dryer. Air compressor is owner furnished, contractor installed.
- 4. Provide air hose reel installed suspended from structure. Hose reel should be equal to Coxreel P Series spring driven hose reel with 1/2" dia. 50' hose.
- 5. Provide water hose reel installed suspended from structure. Hose reel should be equal to Macnaught DR460G-05 spring driven hose reel with 3/4" dia. 60' hose. 6. Install new water heater in drain pan above ceiling. See water heater detail for EWH2
- for more information. 7. Install new water heater in drain pan in mezzanine. See water heater detail for EWH1
- for more information.

Check Valve	
ief Valve	
Vater Heater: State #PCE, 80 gallon capacity .5 kW electric element at 208V/3Ph 9 gallon recovery at 60°F rise.	
Pipe overflow from safety pan to building exterior, as indicated on plans, with 1" pipe.	This is not a certified drawing, but a copy of a certified drawing that has been unlocked. This document has been unlocked for the ease of use of the AHJ, contractor, etc. and was originally accompanied with the actual certified document meeting the boards rule for electronic signatures

Wall Ratings and Types Legend

See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.

New Wall being Constructed

New Partial Height Wall being Constructed One Hour Fire Barrier

APPROVAL

SEAL

34327

BOBBITT A&E. PLLC

600 Germantown Road

Raleigh, North Carolina 2760

COORDINATOR:

DRAWN BY:

CHK BY:

Alue Engineering 4/09/25

 \mathbf{c}

DATE:

ALIGN

919.275.1935

NC Lice∩se № **P-2396** P.O. Box 28313, Raleigh, NC 27611

WATER P1.1 OF 4

These drawings will be at the scale indicated when plotted at 24" x 36"

	Plumbing Fixtures, Equipment, & Accessories						
Tag	Description		Fixture Specification	Water Lin CW	e & Connec HW	ction Size W	
W1	Water Closet Floor Mounted ADA		Toilet: Kohler Highcliff Ultra #K-96057 white vitreous china water closet with elongated bowl, 1 1/2" top spud, siphon jef flushing, 12" rough-in 16 1/2" high to the seat with 2 bolt caps. Seat: Kohler Lustra #K-4666-SC extra heavy duty white elongated with open front seat Valve: Sloan Regal 111 Manual flushometer, 1.6 GPF.	1"	-	4"	
L1	Lavatory Wall Hung ADA		Lavatory Basin: Toto #LT307, Vitreous china, top of rim at 34" AFF for ADA <u>Faucet</u> : Sloan Optima EAF-150,-PLG-ISM, hardwired automatic sensor faucet. 4" centerset faucet, 0.5 GPM flow rate. <u>Mixing Valve</u> : Watts LFUSG-B thermostatic mixing valve at each Faucet. ASSE 1070 approved. <u>Trap & Suppliers</u> : McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #LFB02 angle supply stops. Mount P-trap such that ADA clearance requirements are maintained. <u>Accessories</u> : Truebro 82192 Lav Guard 2 molded insulation # 101-EZ, 3 piece interlocking trap assembly and 2 piece interlocking hot water angle valve assembly, with nylon type fasteners.	1/2"	1/2"	2"	
U1	Urinal Wall Mounted ADA		<u>Urinal:</u> Kohler Dexter #5452-ET-0. 3/4" top spud, siphon jef flushing, Mount urinal 17" AFF for ADA. <u>Valve:</u> Sloan Regal 186 manual flushometer with 0.5 GPF.	3/4"	-	2"	
S1	Decon Sink, Double Bowl		<u>Sink Basin:</u> Just #NSFB230-24L-2-J 14ga Stainless steel, floor mount-double bowl. Dimensions 55"x27"x14" deep, 2 holes. <u>Faucet:</u> T&S Brass #S-0231, Stainless, 2 hole faucet on 8" centers with 12" spout. <u>Trap & Suppliers:</u> McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #LFB02angle supply stops. Indirect drain to floor sink.	1/2"	1/2"	1 1/2"	
S2	Break Sink, Double Bowl		Sink Basin: Elkay # LRAD291855, 18 ga Stainless steel, drop-in double bowl. Dimensions 29"x18"x5 1/2" deep, 1 hole. Faucet: Moen Align #7565, Stainless, 1 hole faucet, 1.8 GPM flow rate. Trap & Suppliers: McGuire #8902, 17 gauge 1 1/4" x 1 1/2" P-trap and nipple. McGuire #LFB02angle supply stops. Mount P-trap such that ADA clearance requirements are maintained. <u>Accessories:</u> Truebro 82192 Lav Guard 2 molded insulation # 101-EZ, 3 piece interlocking trap assembly and 2 piece interlocking hot water angle valve assembly, with nylon type fasteners.	1/2"	1/2"	1 1/2"	
SH	Shower		<u>Shower:</u> Tile by others. <u>Valve:</u> Delta #T17TH325 single handle, with pressure balancing shower valve and diverter. Fixed shower head as well as handshower head mounted on grab bar. 1.5 GPM shower heads. <u>Drain:</u> Floor drain, See spec below	1/2"	1/2"	2"	
EWC/BF ADA	Electric Water Cooler & Bottle filler		Elkay #EZSTL8WSLK dual level, ADA, wall mounted water cooler and and bottle filler; hermetically sealed and air cooled refrigeration unit. Electric push buttons on front and side with vinyl covered steel skirt and stainless steel hood receptor. Mount spout on lower side at 36" AFF and provide cane apron option on higher side of water cooler.	1/2"	-	1 1/2"	
wco	Wall Clean Out	B -0	Zurn #Z1446 wall cleanout tee, dura-coated cast iron body, gas and watertight ABS tapered thread plug, and round, smooth stanless steel wall access cover with securing screw.	-	-	see plans	
TP	Trap Primer		Watts #200 Flow through trap primer	1/2"	-	-	
SA	Shock Absorber		Watts series #15M2 water hammer arrestor, sized to match associated line. Shock absorber shall meet all requirements ASSE 1010, ANSI A1 12.261M as well as the 2018 NCSBC and the 2018 NCSPC, section 604.9	see plans	see plans	-	
VB	Vacuum Breaker		Watts #LF7 vacuum breaker, sized to match associated line. Vacuum breaker shall meet all requirements ASSE 1024, as well as the 2018 NCSBC.	-	-	-	
IM	Ice Maker Box	4	Oatey #39152 square, 1/4 turn, copper, hammer, low lead, water outlet box. Wall mount at 24" AFF, confirm height with architect. Plumbing to provide necessary lines and fitting for connection to equipment.	1/2"	-	-	
WB	Washer Box		Oatey #38540 washing machine supply box with 1/4 turn, copper, hammer, low lead, valves. Wall mounted 40", confirm height with architect. Plumbing to provide necessary lines and fitting for connection to equipment.	1/2"	1/2"	3"	
FD	Floor Drain		Zurn #Z415B floor drain. Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp and adjustable collar with seepage slots and type "B" polished nickel bronze, light duty heel proof strainer. Connect to trap primer as required.	-	-	3" see plans	
MS	Mop Sink	A CAR	<u>Mop Sink:</u> Fiat #MSB2424 molded stone mop service basin, 24" x 24" x 10" tall sides. <u>Faucet:</u> Chicago faucets #44-897SRXKCCP with integral vacuum breaker, lever type ceramic 1/4 turn handles, and adjustable arms. Polished chrome finish. Faucet to have 3/4" hose thread on spout.	1/2"	1/2"	3"	
RP	Recirculation Pump		Taco #007e High Efficiency Circulator with stainless steel lead free casing, aquastat and timer	-	1/2"	-	
тр	Trench Drain		ABT Model #PDX with PD 2410 Grate, 2902 Catch Basin, 2903 Trash Bucket and end connection. Cut trench to length with bottom sloped to outlet.	-	-	4"	
TD2	Trench Drain		ABT Model #PDX with Traffic rated Grate, 2902 Catch Basin, Sand filter and end connection. Cut trench to length with bottom sloped to outlet.	<u>_</u>	-	4"	
FS	Floor Sink		Plastic Oddities PDS400H floor sink, 14"x14" with 3" outlet plastic floor sink. Connect to trap primer as required.	-	-	3" see plans	
НВ	Hose Bibb	R	Woodford #24 wall hydrant. 3/4" Brass hose threaded nozzle. Provide tamper proof vacuum breaker, Nidel #50H or equal.	3/4"	-	-	
FPWH	Freezeless Wall Hydrant		Woodford #24 freezeless wall hydrant. 3/4" Brass hose threaded nozzle. Provide tamper proof vacuum breaker, Nidel #50H or equal.	3/4"	-	-	

The intention of the depicted images above are to show the general appearance of the fixtures being specified. Exact representation is not necessarily shown nor are accessories for models or some variation of the model. The fixture specification should take precedent over the photo.

These drawings will be at the scale indicated when plotted at 24" x 36"

Mechanical Notes and Specifications General Requirements: 1. The heating and air conditioning contractor (the contractor) shall provide all specified and miscellaneous Ductwork: material and labor as required for a complete and operating system as described by these plans and specifications. 2. All equipment and materials shall be installed in accordance with all local, state, and national codes and recommendations of the manufacturers. If there is a conflict in the above requirements, the more stringent shall be used. 3. The contractor shall obtain and pay for all permits, fees, and inspections necessary to complete their work Flexible Duct: under this contract. 4. Prior to bidding, the contractor shall visit the site to familiarize themself with existing conditions and resolve any conflicts between existing conditions and these plans with the engineer. 5. All ductwork and equipment shown on these drawings is strictly diagrammatic. All ductwork sizes shown Code are free area sizes. It shall be the responsibility of the contractor to ensure that items furnished under this contract will fit in the space available. The contractor shall make necessary field measurements to ascertain space requirements, including those for connections, and shall provide such sizes and shapes of equipment that are the true intent and meaning of these drawings and specifications. Any conflicts shall be resolved with the engineer. Prior to construction, the contractor shall coordinate their work with all other trades. All drawings indicate the general arrangement desired. The exact locations and details of construction may be such that variances are required. The drawings do not show all bends, offsets, and fittings that may be required for Duct Elbows: the complete execution of this contract. Such variances and contingencies shall be allowed for in the contractor's bid and shall be accomplished without additional cost to the owner. Prior to ordering equipment, the contractor shall prepare coordination drawings showing how their equipment is to be located in the space indicated. This drawing shall show the new and existing work of all other trades. The System Balancing: contractor shall contact the other contractors involved for dimensions, locations, and required clearances of the equipment they intend to provide for this job. The aforementioned coordination drawings shall be submitted to the engineer for approval. 7. Do not scale these drawings. Refer to the architectural plans for dimensions. Air Distribution: 8. All equipment shall be located and installed to provide maximum space for maintenance and service. All materials used shall be new and free of defects. Where trade names are mentioned, they are given as a reference to the quality of the apparatus required. All materials and equipment shall bear the UL label or equivalent where applicable. Other makes may be used if approved in writing by the engineer. Provide a complete list of materials and equipment proposed for use in this contract to the engineer within ten days following the award of contract. If such list is not submitted, the contractor shall supply the materials and Fire Dampers: equipment specified or as directed by the engineer. The contractor shall provide digital copies of submittals to the engineer for review and approval prior to ordering equipment. 10. Workmanship shall be first-class and performed by experienced and skilled craftsmen. 11. Coordinate exact location of all diffusers/grilles with lights, sprinkler heads, and other ceiling mounted devices. See the reflected ceiling plan. 12. Upon completion of the work, a certified test and balance shall be performed in accordance with "AABC" requirements. Furnish a final copy of all testing, adjusting, and balancing reports as a part of the operating and maintenance manuals. Indicate deficiencies preventing proper testing, adjusting, and balancing of Flexible Duct Connections: systems and equipment to achieve specified performance. Adjust air handling systems to within plus or minus 10 percent of design. Adjust total air to all air outlets and inlets to within plus 10 percent and minus 5 percent of design to space. Adjust individual outlets and inlets in space to within plus or minus 10 percent Escutcheons: of design. Adjust air handling and distribution systems to obtain required or design supply, return, and exhaust air quantities. Measure air quantities at air inlets and outlets. Vary total system air quantities by adjustment of fan speeds. Provide sheave drive changes to vary fan speed if required. Vary branch air wall or ceiling in an exposed location. quantities by damper regulation. Measure static air pressure conditions on air supply units, including filter Smoke Detectors: and coil pressure drops, and total pressure across fan. Make allowances for 50 percent loading of filters. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions. At modulating damper locations, take measurements and balance at extreme conditions. 13. As applicable, the contractor shall verify the operation of all existing mechanical equipment in the area of work. All measurements shall be recorded necessary to ascertain the proper operation of the equipment including, but not limited to, amperage, gpm flow, inlet and outlet temperatures, airflow, and inlet and outlet static pressures. Any deficiency in the rated output of the equipment shall be reported to the engineer. In any case, said report shall be submitted to the engineer upon request. 14. All equipment shall be provided with permanent labels for identification. All pipe shall be labeled to indicate the fire alarm contractor prior to installation. pipe function and direction of flow. Provide valve tags for all valves. Coordinate nomenclature and Access Panels: numbering with owner prior to installation. 15. The contractor shall furnish a bound set of operating and maintenance instructions for all equipment to the owner upon completion of project. 16. The contractor shall, at the completion of the work, clean, polish, and/or wash all exposed items of materials, equipment, and fixtures in their contract to leave such items bright and clean. The contractor HVAC Equipment: shall keep the premises clear of debris from their work during construction and leave the area and building clean at completion of the contract. 17. Mechanical and electrical equipment shall operate without objectionable noise or vibration, as determined by the engineer. If such objectionable noise or vibration should be produced and transmitted to occupied portions of the building, the contractor shall make the necessary changes to correct the noise or vibration Control Wiring: without additional cost to the owner. 18. The contractor shall provide a complete 1-year warranty on all labor and materials under this contract. Refrigeration compressors provided under this contract shall carry the manufacturer's published 5-year non-prorated warranty. 19. The electrical contractor shall be responsible for all power connections to the equipment provided under Gas Piping: this contract. 20. The mechanical contractor shall be responsible for all control wiring for their equipment. 21. Outside air intakes shall be located a minimum of 10 feet from all exhaust discharge and plumbing vents. Refrigerant Piping: 22. Replace all filters just prior to acceptance by the owner. 23. Contractors and sub-contractors shall carefully review the construction documents. Information regarding the complete work is dispersed throughout the document set and cannot be accurately determined without shall be provided with a UV resistant coating. reference to the complete document sets. 24. Route refrigerant lines from outdoor condensing units in the most direct path to the air handler. Insulate with foam insulation. Provide long line refrigeration kit as required. 25. Provide an auxiliary drain pan for any air conditioning equipment. Provide the auxiliary drain pan with a float switch that stops the fan upon accumulation of condensate in the pan. Locate all equipment above the ceiling so that adequate slope is provided for all drain lines. If a condensate pump is specified, extend the auxiliary drain pan under the condensate pump. Condensate drain lines in return air plenums shall be made of type 'K' copper pipe. Insulate drain lines to prevent sweating. Route condensate drains as directed on plans.

Materials and Equipment:

• All sheet metal ductwork, unless otherwise specified, shall be constructed of galvanized steel sheets in accordance with SMACNA gages and standards. Duct shall be constructed for 1" static pressure and sealed to SMACNA Classification "B". Insulate all ductwork, unless otherwise noted, with foil-faced 1 psf density fiberglass duct wrap. Insulation R-value shall be per the 2018 NC Energy Conservation Code. Where specified, duct liner shall be 1" thick, 1.5 pound density acoustical liner.

Shall be insulated, sound attenuating, low velocity type, and shall comply with NFPA 90A and 90B. Flexible duct shall bear the UL Class 1 air duct label as tested under UL 181. Flexible duct shall be factory-formed. composed of spiral wound corrosion resistant wire bonded to an inner fabric liner. Duct shall be factory insulated with a foil vapor barrier jacket. Insulation R-value shall be per 2018 NC Energy Conservation

The installation of flex duct shall conform to the requirements of Chapter 3 of the SMACNA HVAC Duct Construction Standards, (latest edition). Bends in flexible duct shall not be less than two duct diameters centerline radius and bends shall not begin within three inches of a sheet metal connection. Duct shall not be compressed. Support duct from the structure at intervals not to exceed ten feet. Maximum permissible sag is 1/2 inch per foot of spacing between supports. Hanger or saddle material in contact with the duct shall be wide enough so that it does not reduce the internal diameter of the duct when the supported section rests on the support and in no case shall be less than 1" wide.

• Use full-radius elbows or square bends with turning vanes.

• Provide locking quadrant type manual volume damper at each flexible duct runout. Provide splitter dampers at supply tees and extractors at all supply air branches. Provide balancing dampers in all ducts where required for system balancing as shown or as required.

• Provide all grilles, registers, and diffusers per the schedule on the drawings. Provide support from the structure for each diffuser and damper installed in a lay-in ceiling. Linear slot diffusers shall be constructed so that each slot may be independently configured to insure a full 180° air control pattern. The contractor shall coordinate finish styles and colors with the architect prior to ordering equipment. The backs of all air distribution shall be insulated from unconditioned space.

• The contractor shall provide fire dampers at all duct penetrations of rated walls as indicated on the drawings or where required by the authority having jurisdiction. Fire dampers shall be UL labeled, Style "B" curtain type, and dynamically rated with integral factory sleeve. Blades shall be located out of the airstream for minimum airflow restriction. Installation shall be in accordance with the SMACNA Fire, Smoke and Radiation Damper Installation Guide for HVAC, (latest edition). Provide suitable access door for testing and servicing damper mechanism. Prior to completion of job, the contractor shall test each damper for proper operation and make adjustments as necessary.

• Furnish and install flexible duct connectors on supply and return connections of all air handling units.

• Furnish and install escutcheons in all places where piping or mechanical equipment penetrates a finished

• Smoke detectors shall be provided per the 2018 NC Mechanical Code, Section 606.2.1. Smoke detectors shall be UL listed for duct installation and be located in the return airstream to shut down the supply air fan upon activation. The system shall be wired so that the fan immediately shuts down upon a signal from the fire alarm system and bypasses any built-in time delays. The Fire Alarm Contractor shall furnish the smoke detector, wire the detector to the fire alarm control panel, and provide a shut down relay at the equipment. The Mechanical Contractor shall install the smoke detector in the duct and wire from the shut down relay to the supply fan. Audible and visible alarms shall be provided through the fire alarm system. Duct detectors shall be installed per the manufacturer's recommendations. Coordinate smoke detector requirements with

• The Mechanical Contractor shall provide access panels as required for access to valves, dampers, controls, or any other item installed under this contract where such item is concealed behind construction which renders the item inaccessible for service or adjustment. Said access panels or doors shall be fire rated as necessary to maintain the integrity of the construction wherein the panel or door is installed.

All equipment shall bear the UL, CSA, met or other accredited testing laboratory label where appropriate. All equipment shall conform to the type, size, rating, and performance of that listed on the drawings under this contract. Submit shop drawings per the specifications.

• All control wiring shall be run in a metallic raceway. Raceway shall be routed parallel and perpendicular with the building structure. The metallic raceway may be omitted where plenum-rated cable is installed above an accessible ceiling within the building envelope. There shall be no splices in the control system wiring other than at terminal blocks. Wire nuts and crimp splices are not permitted.

• All gas piping shall be installed by the mechanical contractor. Gas pipe shall be Schedule 40 black steel. provide all valves, fittings, and controls as required by local, state, and national codes or by manufacturer's written recommendations for a complete and operational system.

 All refrigerant piping shall be copper, sized per HVAC equipment manufacturer's recommendations. all piping shall be insulated per 2018 NC Energy Conservation Code. All insulated piping exposed to weather

Drawing Legend						
		Ceiling Supply Diffuser				
[]<	-	Sidewall Supply Diffuser				
		Ceiling Return Grille				
		Ceiling Exhaust Grille				
[]		Sidewall Return/Exhaust Grille				
У _{WxH}		Rectangular Duct (W = Width, H = Height)				
D"Ø	3	Round Duct (D = Diameter)				
		Duct Tap with Transition from Hard to Flexible Duct				
		Manual Volume Damper				
X		Rectangular Duct Turns Down				
]	Rectangular Duct Turns Up				
\bigcirc]	Round Duct Turns Down				
Ø		Round Duct Turns Up				
		Fire Damper				
§D		Duct Mounted Smoke Detector				
SA1 200]	Diffuser Tag Diffuser Type CFM				
G-		Gas Piping				
	-р	Piping Elbow Turns Down				
	+•	Piping Elbow Turns Up				
		Gas Shutoff Valve				
		Medium Pressure Gas Regulator				
T		Wall Mounted Thermostat				
0		Carbon Monoxide Sensor				
M		Motorized Damper				
		Marks				
AHU	Air Har	ndling Unit				
EF	Exhaus	st Fan				
HP	Heat P	ump				
IRH	Infrared	d Gas Heater				
L	Louver					
V	/ Gravity Ventilator					

Unit Identification	Space Classificat
EF-7, EF-8	Garage

1. Per 2018 NC Mechanical Code, Table 403.3.1.1.

Unit Identification	Space Classification	Floor Area (SF)	People per 1000 SF	Total People	CFM per Person	CFM per SF	Zone Air Dist. Eff.	Required CFM	Design CFM	Remarks
	Office Space	196	5	1	5	0.06	0.8	21	60	1
Ano-1	Main Entry Lobby	251	10	3	5	0.06	0.8	38	00	1
AHU-2	Conference/Meeting	674	50	34	5	0.06	1.0	180	180	1
	Weight Room	188	10	2	20	0.06	1.0	51	- 140 -	1
	Dormitory Sleeping Areas	269	20	6	5	0.06	0.8	58		1
AHU-3	Corridor	187	NA	NA	NA	0.06	0.8	14		1
	Storage	187	NA	NA	NA	0.12	0.8	14		
AHU-4	Dormitory Sleeping Areas	276	20	6	5	0.06	0.8	59	60	1
AHU-5	Storage	630	NA	NA	NA	0.12	0.8	76	200	1

1. Per 2018 NC Mechanical Code, Table 403.3.1.1.

Additional Efficiency Compliance:

This project is complying with Section C406 of the 2018 NC Energy Conservation Code under the provisions of Section C406.1, Option 2. The remaining provisions are therefore not required and have not been included in this design.

Mechanical	Systems and Equipment:
Method of Compliance:	Prescriptive
Climate Zone:	4A
Exterior Design Conditio	ns:
Winter Dry Bulb	 _16°F
Summer Dry Bulb:	93°F
Interior Design Condition	IS:
Winter Dry Bulb	70°F
Summer Dry Bulb	75°F
Relative Humidity:	50%
Calculated Space Loads	
Heating Load	- 140 860 BTUH
Cooling Load:	97,500 BTUH
Space Conditioning Syst	lem.
Unitary:	The snace is served by split-system heat numps with auviliary
Officary.	electric heat and natural gas radiant heaters.
Boiler:	Not applicable to this project.
Chiller:	Not applicable to this project.
Equipment Efficiencies:	
Refer to mechanica	l schedules within drawings for efficiencies.
Equipment Schedules w	
Multi-speed motors the equipment. See	are used on this project and are included in the efficiency rating a drawings for efficiencies.
Designer Statement:	
To the best of my k	nowledge and belief, the design of this project complies with the
mechanical system	and equipment requirements of the 2018 NC Mechanical Code.

APPROVAL ALIGN 919.275.1935 NC License № **P-2396** O Box 28313 Baleigh NC 276

Garage Ventilation Calculation										
ion	Floor Area (SF)	Required CFM per SF	Minimum CFM per SF	Required CFM	Design CFM	Minimum Design CFM	Remarks			
	5864	0.75	0.05	4398	4500	300	1			

Outside Air Calculation

General Notes:

lengths to 4'.

- The contractor shall comply with all requirements of the 2018 NC Mechanical Code with regards to all mechanical work.
- 2. The Mechanical Contractor shall coordinate the installation of all equipment, piping, and ductwork under this contract with the building structure. Contractor shall make
- adjustments where necessary without additional cost to owner. 3. Coordinate all supply, return, and exhaust grille locations with architectural reflected
- ceiling plan. 4. Limit all flexible supply duct lengths to a maximum of 8'. Limit all flexible return duct
- Where ducts and/or equipment are shown crossing, the larger duct or equipment shall take precedence. The contractor must provide transitions so that the smaller of the ducts is routed up and over the top of larger ducts.
- Install fire dampers as required for all ducts penetrating rated partitions. All roof mounted equipment shall be located a minimum of 6 feet from the roof edge.
- Coordinate all roof work with owner prior to construction. 8. Locate thermostat and/or temperature sensor devices as shown on mechanical plans.
- Verify that all device locations are acceptable to owner/tenant prior to construction. 9. Insulate all new supply, return, and outside air ductwork concealed above ceilings with exterior duct wrap.
- 10. Insulate all new supply, return, and outside air ductwork in open to deck ceilings with duct liner insulation.

DBBIT 500 Gerri igh, Nor	T A&E mantown th Caroli DINA	::
LILLINGTON FIRE STATION NO 3	2873 NC 210 NORTH	LILLINGTON, NORTH CAROLINA commanied with the actual contribution of the AHJ, contractor, etc. and was originally accompanied with the actual contrified document meeting the boards rule for electronic signatures
09/ [,] 24 MECI	19/202 -0013 HANI(24

MU

High-Volume Low-Speed Fan Schedule Diameter Number Motor Maximum Mark Manufacturer Model Drive (HP) (ft) of Blades RPM HVLS-1 Big Ass Fan Basic 109 1.5 14 6 Direct 1. Fan to be installed with a minimum 2'-0" clearance from the underside of the roof deck and on all sides. Verify extension tube length and mounting bracket with manufacturer prior to ordering. Coordinate exact fan mounting height with General Contractor.

2. Provide fan with manufacturer's variable speed wired wall controller. All fans shall be controlled through a single controller. Controls wiring shall be through Cat5 wiring and provided by mechanical contractor. Control wiring shall be within conduit provided by Mechanical Contrator. Electrical contractor shall provide power wiring to variable frequency drive (VFD) and whip to fan.

3. Provide fan with relay to shutdown upon signal from fire alarm system. Wiring by Fire Alarm Contractor. 4. Refer to MEP seismic details for mechanical equipment restraint requirements.

	Infrared Gas Heater Schedule										
Mark	MarkManufacturerModelInput (MBH)Tube LengthOverall LengthFuelVolt/PhWeight (LBS)Remarks										
IRH-1	IRH-1 Space Ray LTS-175-50-N7 175 50 ft 52' 9" Nat.Gas 120/1 285 1,2,3,4										
IRH-2	IRH-2 Space Ray LTS-175-50-N7 175 50 ft 52' 9" Nat.Gas 120/1 285 1,2,3,4										

1. Provide with direct spark ignition, 2-stage gas valve, and maintenance-free draft inducer.

2. Provide with manufacturer's wall mounted thermostat.

3. Provide with 4" exhaust flue duct and 6" outside air duct.

4. Refer to MEP seismic details for mechanical equipment restraint requirements.

Air Distribution Cabadula

	Air Distribution Schedule										
Mark	Manufacturer	Model	Description	Panel Size	Туре	Neck Size	Remarks				
SA1	Titus	TMS-AA	Aluminum, High Performance, Full Face, Stamped Square, 4-Way	24x24	Lay-In	6"Ø	1,4,5				
SB1	Titus	TMS	Steel, High Performance, Full Face, Stamped Square, 4-Way	24x24	Lay-In	8"Ø	1,4,5				
SB2	Titus	TMS	Steel, High Performance, Full Face, Stamped Square, 4-Way	24x24	Lay-In	10"Ø	1,4,5				
SC1	Titus	300FS	Aluminum, Double Deflection, Short Front Blades, 3/4" Blade Spacing	NA	Surface Mount	10x6	1,2,3,5				
SD1	Titus	300RS	Steel, Double Deflection, Short Front Blades, 3/4" Blade Spacing	NA	Duct Mount	10x6	1,2,5				
SD2	Titus	300RS	Steel, Double Deflection, Short Front Blades, 3/4" Blade Spacing	NA	Duct Mount	12x6	1,2,5				
SD3	Titus	300RS	Steel, Double Deflection, Short Front Blades, 3/4" Blade Spacing	NA	Duct Mount	16x6	1,2,5				
RA1	Titus	PAR	Steel, Perforated, Duct Collar	24x24	Lay-In	10"Ø	1,4,5				
RA2	Titus	PAR	Steel, Perforated, Duct Collar	24x24	Lay-In	12"Ø	1,4,5				
RB1	Titus	350RL	Steel, 35° Deflection, 3/4" Blade Spacing, Parallel to Long Dimension	NA	Duct Mount	12x6	1,2,5				
RB2	Titus	350RL	Steel, 35° Deflection, 3/4" Blade Spacing, Parallel to Long Dimension	NA	Duct Mount	20x6	1,2,5				
RC1	Titus	350RL	Steel, 35° Deflection, 3/4" Blade Spacing, Parallel to Long Dimension	NA	Surface Mount	14x14	1				

1. Verify all ceiling and wall types with architectural plans. Coordinate color with Architect.

2. Provide with integral opposed blade balancing damper.

3. Provide with square-to-round transition as required.

4. Insulate all diffusers and grilles from ceiling space. Provide with foil-faced backpan insulation.

5. Refer to MEP seismic details for mechanical equipment restraint requirements.

		-							-	-		
Mark	Manufacturer	Model	Service	Туре	Airflow (CFM)	ESP (in. W.G.)	Motor Size	RPM	Drive	Volt/Ph	Weight (LBS)	Remarks
EF-1	Greenheck	SP-A90	104 Unisex	Ceiling Cabinet	70	0.25	13 W	855	Direct	120/1	20	1,2,4,6
EF-2	Greenheck	SP-A200	106 Bath	Ceiling Cabinet	120	0.25	19 W	650	Direct	120/1	32	1,2,4,6
EF-3	Greenheck	SP-A90	111 Laundry/Janitor	Ceiling Cabinet	70	0.25	13 W	855	Direct	120/1	20	1,2,4,6
EF-4	Greenheck	SP-A200	110 Bath	Ceiling Cabinet	120	0.25	19 w	650	Direct	120/1	32	1,2,4,6
EF-5	Greenheck	SP-A200	155 Bath	Ceiling Cabinet	120	0.25	19 w	650	Direct	120/1	32	1,2,4,6
EF-6	Greenheck	SP-A90	154 Decon	Ceiling Cabinet	70	0.25	13 W	855	Direct	120/1	20	1,2,4,6
EF-7	Greenheck	AER-20-03-0615-VG	150 Apparatus	Wall, Propeller	300	0.25	0.25 HP	720	Direct	120/1	131	3,4,5,6
EF-8	Greenheck	AER-30-03-0610-VG	150 Apparatus	Wall, Propeller	4500	0.25	1.0 HP	888	Direct	120/1	237	3,4,5,6

1. Provide fan with backdraft damper, polystyrene grille, and hanging isolator kit to support fan from structure. 2. Fan to be controlled by wall switch provided by Electrical Contractor.

exceed set point. Refer to manufacturer's installation instructions for exposure limits and alarm levels. Refer to MEP seismic details for mechanical equipment restraint requirements.

	Louver Schedule												
Mark	Manufacturer	Model	Service	Туре	Airflow (CFM)	Size, WxH (in.)	Depth (in.)	Min. Free Area (SF)	Max. P.D. (in. W.G.)	Damper Type	Actuator (Volt/Ph)	Fan Interlock	Remarks
L-1	Greenheck	ESD-435	Intake	Fixed	60	12x12	4	0.3	0.1	Barometric	NA	NA	1,2,3,5
L-2	Greenheck	ESD-435	Exhaust	Fixed	70	12x12	4	0.3	0.1	NA	NA	NA	1,2,3,5
L-3	Greenheck	ESD-435	Intake	Fixed	180	12x12	4	0.3	0.1	Barometric	NA	NA	1,2,3,5
L-4	Greenheck	ESD-435	Intake	Fixed	140	12x12	4	0.3	0.1	Barometric	NA	NA	1,2,3,5
L-5	Greenheck	ESD-435	Exhaust	Fixed	310	16x12	4	0.4	0.1	NA	NA	NA	1,2,3,5
L-6	Greenheck	ESD-435	Intake	Fixed	60	12x12	4	0.3	0.1	Barometric	NA	NA	1,2,3,5
L-7	Greenheck	ESD-435	Exhaust	Fixed	190	12x12	4	0.3	0.1	NA	NA	NA	1,2,3,5
L-8	Greenheck	ESD-435	Intake	Fixed	300	24x12	4	0.7	0.1	Motorized	120/1	EF-7	1,2,4,5
L-9	Greenheck	ESD-435	Intake	Fixed	4500	48x36	4	6.3	0.1	Motorized	120/1	EF-8	1,2,4,5
L-10	Greenheck	ESD-435	Intake	Fixed	200	14x12	4	0.4	0.1	Barometric	NA	NA	1,2,3,5

1. Provide color selection chart with submittals. Final color selection shall be made by architect during submittal review. 2. Louver shall be extruded aluminum with drainable blades. Provide with flanged frame and bird screen.

3. Provide barometric damper with counterbalance.

specified fan is engaged. 5. Refer to MEP seismic details for mechanical equipment restraint requirements.

	Split System Heat Pump Schedule												
М	ark	Manufacturer	Tonnage	Model	ARI Cooling (MBH)	ARI Heating (MBH)	SEER2	HSPF2	Volt/Ph	MCA	MOCP	Weight (LBS)	Remarks
н	P-1	Trane	1.5	4TWR4018	19.3	19.3	14.3	7.5	208/1	15.0	25	174	1,2,3,4,5
н	P-2	Trane	2.0	4TWR4024	23.4	22.6	14.3	7.5	208/1	15.0	25	174	1,2,3,4,5
н	P-3	Trane	2.0	4TWR4024	23.4	22.6	14.3	7.5	208/1	15.0	25	174	1,2,3,4,5
н	P-4	Trane	1.5	4TWR4018	19.3	19.3	14.3	7.5	208/1	15.0	25	174	1,2,3,4,5
н	P-5	Trane	2.0	4TWR4024	23.4	22.6	14.3	7.5	208/1	15.0	25	174	1,2,3,4,5

1. Cooling capacity based on indoor entering air condition of 80°F dry bulb, 67°F wet bulb and outdoor air condition of 95°F dry bulb. Heating capacity based on indoor entering air condition of 70°F dry bulb and outdoor air condition of 47°F dry bulb.

switch, and loss of charge switch. 3. Accessory unit features shall include: compressor start assist, crankcase heater, thermostatic expansion valve, and time delay relay.

line length is 3%. All piping shall be hard copper pipe.

5. Refer to MEP seismic details for mechanical equipment restraint requirements.

	Split System Air Handling Unit Schedule												
Mark	Manufacturer	Model	SA (CFM)	OA (CFM)	ESP (In. W.G.)	Fan (HP)	Heat (KW)	Heat Stages	Volt/Ph	MCA	MOCP	Weight (LBS)	Remarks
AHU-1	Trane	TEM4A0B18S21	600	60	0.5	1/5	3.60	1	208/1	23.0	25	110	1,2,3,4,5
AHU-2	Trane	TEM4A0B24S21	800	180	0.5	1/5	5.76	1	208/1	36.0	40	110	1,2,3,4,5
AHU-3	Trane	TEM4A0B24S21	800	140	0.5	1/5	5.76	1	208/1	36.0	40	110	1,2,3,4,5
AHU-4	Trane	TEM4A0B18S21	525	60	0.5	1/5	3.60	1	208/1	23.0	25	110	1,2,3,4,5
AHU-5	Trane	TEM4A0B24S21	800	200	0.5	1/5	5.76	1	208/1	36.0	40	110	1,2,3,4,5
						-							

1. Provide air handling unit with factory installed electric heater, filter rack, disconnect switch, and single point wiring connection. 2. Provide unit with manufacturer's touchscreen display, 7-day programmable thermostat.

3. Provide unit with 120 Volt, hardwired, plenum rated condensate pump, auxiliary drain pan, and float switch. Pump condensate to nearest dry well. 4. Unit shall shutdown upon signal from fire alarm system. Duct mounted smoke detector shall be furnished and wired by the Fire Alarm Contractor. The Mechanical Contractor shall install the detector in the duct. All controls, including audible/visual alarms, shall be provided by the Fire Alarm Contractor.

5. Refer to MEP seismic details for mechanical equipment restraint requirements.

е								
/olt/Ph	MOCP	Weight (LBS)	Remarks					
208/1	25	192	1,2,3,4					
sion tube length and mounting								

APPROVAL: DATE:

Fan Schedule

3. Provide fan with 24V on/off controls contacts, 120/24V controls transformer, cast aluminum propeller fan, integral housing, weather hood, outlet shutter, and inlet guard.

4. Provide fan with speed controller for balancing. 5. Provide Honeywell: Model 301C, CO / NO2 monitoring system with remote sensors, audible/visible alarms, and 120/24V controls transformer as required. Fan shall be controlled through CO / NO2 monitoring system. EF-7 shall be programmed to operate continuously in order to provide minimum required ventilation. EF-8 shall be programmed to engage and open associated louver/damper when exposure levels

4. Provide separate field installed damper with electric actuator, linkage, and mounting hardware. Provide 24 volt step down transformer as required. Interlock damper to open with

2. Standard unit features shall include filter drier, front seating service valves, internal pressure relief valve, internal thermal overload, suction line accumulator, high pressure

4. Refrigerant lines shall be sized and approved by the equipment manufacturer based upon field measured piping lengths. Mechanical contractor shall provide lengths, bends, and routing to manufacturer for proper pipe sizing. Provide all of the manufacturer's recommended components. Piping shall be sized so that maximum capacity loss due to

LI 287

09/19/2024

24-0013

MECHANICAL

BOBBITT DESIGN BUILD, INC. ALL RIGHTS RESERVED.	BOBBITT A&E, PLLC 600 Germantown Road Raleigh, North Carolina 27607 Phone (919) 851-1982 Brone (919) 851-1982 design@bobbitt.com
IGHT © 2022 E	COORDINATOR: DRAWN BY:
COPYRI	CHK BY:
	Value Engineering 4/09/25
	This is not a certified drawing, but a copy of a certified drawing that has been unlocked. This document has been unlocked for the ease of use of the AHJ, contractor, etc. and was originally accompanied with the actual certified document meeting the boards rule for electronic signatures
	LINGTON FIRE STATION NO Control of the station of the state of the sta

Plan Notes:

- Install air handling unit above ceiling per manufacturer's installation instructions and clearances. Provide return duct same size as unit connection. Route refrigerant piping through ceiling and turn down within exterior wall to heat pump. Pump condensate adjacent to refrigerant piping and spill into nearest dry well. Refer to "Air Handling Unit Hanging Detail" for additional information.
- 2. Manufacturer's required installation clearances. (Typical)
- Install new heat pump on concrete housekeeping pad per manufacturer's installation instructions and clearances. Refer to "Heat Pump Mounting Detail" for additional information. (Typical)
- Install ceiling mounted exhaust fan per manufacturer's installation instructions and clearances.
 Install ceiling mounted exhaust fan per manufacturer's installation instructions and
- clearances. Fan shall be suspended within structural joists.Install louver high in exterior wall per manufacturer's installation instructions and
- clearances. Maintain 10'-0" between outside air intakes and exhaust outlets. Maintain 3'-0" between exhaust outlets and any operable openings into the building.7. Install louver in exterior wall tight to underside of mezzanine structure per
- manufacturer's installation instructions and clearances. Maintain 10'-0" between outside air intakes and exhaust outlets. Maintain 3'-0" between exhaust outlets and any operable openings into the building.
- 8. Route supply and return ducts down through floor of mezzanine. Continue ducts tight to underside of mezzanine structure.
- 9. Install domestic range hood, furnished by General Contractor, above domestic range per manufacturer's installation instructions and clearances (hood shall not exceed 400 CFM). Route exhaust duct through exterior wall and terminate with manufacturer's approved wall cap. Maintain 10'-0" between exhaust outlets and any outside air intakes. Maintain 3'-0" between exhaust outlets and any operable openings into the building.
- 10. Provide "Dryer Box" centered behind domestic clothes dryer. Route dryer duct within wall and vent directly through exterior wall. Terminate dryer duct with wall cap including backdraft damper (no bird/insect screen). Wall cap color shall match adjacent exterior wall color. Maintain 10'-0" between outside air intakes and exhaust outlets. Maintain 3'-0" between exhaust outlets and operable openings into the building.
- Provide dry well at exterior equipment area. Drain all HVAC equipment condensate into nearest dry well. Refer to "Dry Well Detail" for additional information.
 Provide back-to-back return air grilles, with louvers facing upward to prevent line of
- sight into duct, centered above laundry room door. Grilles shall have a minimum free area of 100 square inches per 2018 NC Mechanical Code, Section 504.6.

Wall Ratings and Types Legend

See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.

 New Wall being Constructed

 New Partial Height Wall being Constructed

 One Hour Fire Barrier

These drawings will be at the scale indicated when plotted at 24" x 36"

M1.

BOBBITT A&E, PLLC 600 Germantown Road Raleigh, North Carolina 27607

37491

Plan Notes:

- Install air handling unit horizontally on floor of mezzanine per manufacturer's installation instructions and clearances. Route supply and return ducts down through mezzanine floor as indicated. Route outside air duct up to louver high in exterior wall. Route refrigerant piping through ceiling and turn down within exterior wall to heat pump. Pump condensate adjacent to refrigerant piping and spill into dry well. Refer to "Air Handling Unit Hanging Detail" for additional information or support from mezzanine floor.
- 2. Manufacturer's required installation clearances. (Typical) 3. Install louver high in exterior wall per manufacturer's installation instructions and
- clearances. Maintain 10'-0" between outside air intakes and exhaust outlets. Maintain 3'-0" between exhaust outlets and any operable openings into the building.
- 4. Install natural gas infrared heater per manufacturer's installation instructions and clearances. Coordinate final heater mounting height with the general contractor. Route 6"Ø intake duct and 4"Ø flue duct up through roof as indicated and terminate with manufacturer approved roof cap. Maintain 10'-0" between outside air intakes and exhaust terminations.
- 5. Install high-volume low-speed fan per manufacturer's installation instructions and clearances. Coordinate final fan location and mounting height with the general contractor.
- 6. Install new wall mounted propeller style exhaust fan high on wall per manufacturer's installation instructions and clearances. Fan intake shall be open to apparatus bay. Refer to architectural/structural drawings for exact location. All structural supports shall be provided by General Contractor. Maintain 10' between outside air intake and any exhaust terminations. Fan shall be programmed through CO/NO2 monitoring system to operate continuously. Fan shall be interlocked with L-8 intake louver motorized damper.
- Install new wall mounted propeller style exhaust fan high on wall per manufacturer's installation instructions and clearances. Fan intake shall be open to apparatus bay. Refer to architectural/structural drawings for exact location. All structural supports shall be provided by General Contractor. Maintain 10'-0" between outside air intake and any exhaust or plumbing vent terminations. Fan shall be programmed to engage through CO/NO2 monitoring system when exposure set point is exceeded. Fan shall be interlocked with L-9 intake louver motorized damper.
- 8. Install intake louver high in exterior wall per manufacturer's installation instructions and clearances. Provide minimal duct and motorized damper. Interlock motorized damper with associated exhaust fan, so that damper opens when fan engages. Maintain 10'-0" between outside air intakes and exhaust outlets. Maintain 3'-0" between exhaust outlets and any operable openings into the building.
- 9. Provide dual detection CO/NO2 gas detector. Provide with manual switch. Install CO sensor at 44" to 48", install NO2 sensor 24" below the highest point in the ceiling. Interlock EF-8 to engage when expose set point is exceeded.

10. Install CO/NO2 monitoring system control panel in accessible location on wall. Monitoring system shall be Honeywell, Model: 301C or equivalent with remote CO/NO2 sensors, audible/visible alarms, and 120/24V controls transformer as required. Garage exhaust fans shall be controlled through the CO/NO2 monitoring system. EF-7 shall be programmed to operate continuously in order to provide the minimum required ventilation. EF-8 shall be programmed to engage and open associated intake damper when exposure levels exceed set point. Refer to manufacturer's installation instructions for exposure limits and alarm levels.

Wall Ratings and Types Legend See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.

New Wall being Constructed _____ New Partial Height Wall being Constructed One Hour Fire Barrier

Sheet Intentionally Left Blank

AP AP DA engineering 919.275.1935 NC License Nº P-2395	PROVAL: TE:
P.O. Box 28313, Raleigh, NC 27611	
BO Raleiu	BBITT A&E, PLLC 00 Germantown Road igh, North Carolina 27607 242 (313) 821-1982 0ift.com
C 2022 BOBBITT DESIGN BUILD, INC	OOLGErmantown Road Ralei Phone (919) 851-1980 design@bobl
COPYRIGHT ©	DRAWN BY: CHK BY: Value Engineering 4/09/25
	This is not a certified drawing, but a copy of a certified drawing that has been unlocked. This cortified drawing that has been unlocked for the ease of use of the AHJ, contractor, etc. and was originally accompanied with the actual certified document meeting the boards rule for electronic signatures
	RE STATI CAROLINA
	TON FIF 10 NORTH 0N, NORTH
	LILLING 2873 NC 2 LILLINGTO
	09/19/2024 24-0013 ELOOR PLAN - PLYMOVENT
These drawings will be at the scale indicated will	M1.3 hen plotted at 24" x 36"

 Floor Plan - Natural Gas

 Scale: 1/8" = 1' - 0"

2 Gas Pipe Roof Support Detail Scale: None

2 PSI Gas Service Notes:

Above ground gas piping sizes upstream of medium pressure (MP) regulators are based on an initial pressure of 2 PSI, a pressure drop of 1 PSI, 0.6 specific gravity gas and Schedule 40 pipe. Sizes are based on Table 402.4(5) of the 2018 NC Fuel Gas Code. Gas piping sizes downstream of MP regulators are based on a low pressure system (< 2 psi), a pressure drop of 0.5" water column, 0.6 specific gravity gas and Schedule 40 pipe. Sizes are based on Table 402.4(2) of the 2018 NC Fuel Gas Code.

Underground gas piping sizes upstream of medium pressure (MP) regulators are based on an initial pressure of 2 PSI, a pressure drop of 1 PSI, 0.6 specific gravity gas and Polyethylene Plastic Pipe for underground installation. Sizes are based on Table 402.4(22) of the 2018 NC Fuel Gas Code.

- 1. All gas piping shall be installed per the requirements of the 2018 NC Fuel Gas Code and NFPA 54.
- Provide all valves, fittings, and controls as required by local, state, and national codes or by manufacturer's written recommendations for a complete and operational system.
 Provide all underground gas piping with yellow, 18 AWG tracer wire, suitable for direct
- burial, for locating.Underground gas piping shall have a minimum burial depth of 12 inches and installed per Section 404 of the 2018 NC Fuel Gas Code.
- Provide manual shutoff valve for each piece of gas equipment.
- 6. Contractor shall verify gas requirements for each piece of equipment prior to installing gas piping. Confirm equipment with owner.
- 7. Above ground gas piping shall be Schedule 40 ASTM A53 or A120, T&C. Where exposed to weather, paint to prevent corrosion.
- 8. Contractor to verify meter location and maximum line lengths prior to installation. If conditions vary from those shown on the drawings, contact engineer for line sizing.
- 9. A listed shutoff valve shall be installed immediately ahead of each MP regulator.
- MP regulators must be installed and vented in accordance with Section 410 of the 2018 NC Fuel Gas Code. Where MP regulators are specified to be installed indoors, vent limited devices shall be utilized to eliminate requirement for venting to outdoors.
- 11. A test tee fitting shall be installed between the MP regulator and its upstream shutoff valve. A separate test tee fitting shall be installed not less than 10 pipe diameters downstream of the MP regulator outlet. Provide test tee fittings for all new and existing MP regulators.

Gas Connected Load

Mark	Equipment Type	BTUH Input	Remarks
Range	Natural Gas Range	95,000	1,2
IRH-1	Natural Gas Infrared Heater	175,000	1,2
IRH-2	Natural Gas Infrared Heater	175,000	1,2
Generator	Natural Gas Generator	2,760,000	1,2
	Total	3,205,000	

 Maximum equivalent length from the gas meter to the most remote MP regulator = 300'.

 Maximum length from any MP regulator to the equipment served = 30'. Transition pipe to equipment inlet as required.

APPROVAL: DATE:
BOBBITT A&E, PLLC 600 Germantown Road Raleigh, North Carolina 27607 Phone (919) 851-1982 Phone (919) 851-1982 COORDINATOR:
DRAWN BY:
CHK BY:
This is not a certified drawing, but a copy certified drawing that has been unlocked. document thas been unlocked for the ease the AHJ, contractor, etc. and was original, accompanied with the actual certified documenting the boards rule for electronic sign
LILLINGTON FIRE STATION NO 3 2873 NC 210 NORTH LILLINGTON, NORTH CAROLINA
09/19/2024
24-0013 Gas Piping Details

I-⊕ -MAXIMUM DRYER VENTING LENGTH TOTAL LENGTH OF STRAIGHT 4" RIGID DRYER VENT: (XXXX) FEET NUMBER OF ELBOWS (DEDUCTION): QTY: $\frac{(XXXX)}{(XXXX)}$ 4" RADIUS MITERED 45-DEGREE ELBOW (2'-6"): 4" RADIUS MITERED 90-DEGREE ELBOW (5'-0"): TOTAL EQUIVALENT LENGTH OF DRYER VENT: <u>(XXXX)</u> FEET MAXIMUM LENGTH OF DRYER VENT (NCMC 504.8.4): <u>35'-0"</u> FEET MANUFACTURER'S EXCEPTION: TOTAL EQUIVALENT LENGTH OF DRYER VENT MAY <u>EXCEED 35'-0"</u> WHERE DRYER'S MANUFACTURER'S INSTALLATION INSTRUCTIONS ALLOW. INSTALLATION INSTRUCTIONS MUST INCLUDE A MAXIMUM VENTING LENGTH AND DEDUCTIONS FOR FITTINGS. Notes: 1. Mechanical contractor shall provide a 1/16" thick red plastic placard with white 1/4" high lettering indicating each dryer vent installation. The mechanical contractor shall install the placard prior to ceiling installation, but not before dryer vent installation has been completed. Dryers venting systems exceeding 35'-0", or the maximum distance allowable per the dryer manufacturer's installation instructions, are prohibited from being installed. 2. Placard shall include four pre-drilled holes, to be attached adjacent to the wall adjacent to the dryer connection with four screws.

3. All sections including "(XXXX)" must be completed and reflect the dryer vent installation prior to installing placard. 4. Provide placard with pre-drilled holes in each of the four corners. Attach placard to wall within 5'-0" of dryer box with four screws.

GENERAL NOTES AND REQUIREMENTS.

- 1. Workmanship shall conform to NECA installation standards including NECA 1.
- areas shall avoid mechanical piping, equipment, ductwork, etc.
- clearances are maintained. Installation shall fully comply with NEC 110.26 and NEC 408.18 for clearance requirements.
- working space.

- overcurrent devices and no other derating conditions exist. sizes. Minimum conductor size shall be #12.
- size adjustment. 13. All mounting heights indicated are given to the bottom of the device, unless noted otherwise.
- make the final connection required. 15. All light fixtures shall be supported independently of the suspended ceiling system.
- Coordinate closely with other trades.
- separate grounding electrode as required per NEC 800. 21. All multiwire branch circuits shall have multipole breakers as required by NEC 210.7. continuity prior to energizing.
- Testing Requirements:
- Megger tests shall be performed at a DC voltage of 1,000 volts for 600 volt rated equipment, and at a DC voltage of 500 volts for 120-300 volt rated equipment.
- highest value by more than 20 percent. If all megger readings for a given circuit or feeder are above 1000-meghoms, the 20% balance requirement may be waived
- be calibrated at least every 12-months. 23. The electrical contractor shall patch any wall, ceiling, or floor opening (or penetration) resulting from demolition or new necessary to maintain the original appearance as well as the rating.
- 2 weeks from date of receipt by engineer. All submissions should include and acknowledge this review duration unless otherwise specifically discussed and agreed upon in advance.
- etc. prior to beginning any work.
- are found, contact engineer immediately time incurred to prepare them.
- telecommunications, fire alarm, or control wiring above ceiling.
- 30. Contractor shall comply with all applicable seismic requirements of the area. application and materials
- NEC 300.19(A).

2. Installation shall comply with National Electrical Code (NEC/NFPA 70), state building code, and all requirements of the local inspector (furnish inspection certificate). All work shall be by licensed electrical contractor. 3. The contractor shall refer to the architectural plans for floor plan dimensions and not scale these drawings. The location of all wall mounted devices, including mounting heights, shall be field verified with the architect prior to rough-in. Coordinate locations of all light fixtures with the reflected ceiling plans. Light fixtures installed in mechanical

4. Contractor shall comply with all requirements of the 2018 NC Building Code and Accessibility Code which are applicable to this project regardless of whether all details are indicated on plans. All receptacles, switches, and other electrical devices required to be ADA accessible shall be mounted per ANSI 117.1 sections 308 AND 309. 5. All electrical equipment shall be installed so that all code required and manufacturer recommended working/ servicing

6. All wall outlet boxes, receptacles, switches, cover plates, etc. shall be commercial grade, standard or heavy duty except where specified. Verify color/ material for all devices and cover plates prior to order. Provide label for each device identifying the circuit serving the device. Verify if label should be on inside our outside face of cover plate with building management/ tenant. All 15 and 20 amp, 125V and 250V non-locking receptacles shall be listed as tamper resistant, per NEC 406.12, when installed in the following areas: dwelling units in areas specified by NEC 210.52 and 550.13, guest rooms and suites of hotels, child care facilities, preschool and elementary education facilities, and in patient rooms, bathrooms, playrooms and activity rooms of pediatric or similar facilities. 7. The electrical contractor shall coordinate any and all work with other trades involved in the project, prior to installation of electrical equipment, so as to avoid conflicts during construction and to allow for optimum maintenance and

8. All branch circuits shall be in 3/4" minimum zinc-coated EMT, IMC, or RMC as permitted or required by the NEC. LFMC (or FMC as permitted) shall be used for final connections to equipment subject to vibration. A deduct price for MC cable may be offered for approval, where permitted by owner and NEC and conduits completely concealed from view. Schedule 40 PVC conduit may be used for underground feeders/ branch circuits or underground low voltage system conduits located below slab on grade or buried outside of the building, or in concrete block walls. PVC schedule 80 conduit may be used on the building exterior (expansion fittings may be used above grade) where permitted by code. Contractor shall include cost of painting all exposed conduits subject to public view. Conduit sizes noted on these plans are based on EMT conduit. Where other permitted raceway types are used, contractor shall adjust conduit sizes as necessary based on type of raceway used and allowable fill. Provide pull wire in all empty conduit. Junction box covers shall be permanently labeled and conduit shall be labeled every 10'. All labels shall be machine generated onto adhesive labels or tags, or engraved on plastic laminated placards or brass tags. 9. All wire and conduit sizes are based on 75° C THHN/THWN copper conductors unless otherwise noted. All conductors, terminations larger than 30A & devices shall be rated for minimum 75°C. All conductor and conduit sizes are calculated based on installation of no more than 3 current carrying conductors per conduit, neutral(s) included. Unless otherwise noted, contractor shall not install more than 3 current carrying conductors per conduit with the following exception: up to 9 current carrying conductors may be used in a single raceway where permitted by the NEC when minimum #12 AWG (THHN 90°c) is used and when all included circuits are protected upstream by 20 amp 10. All conductors shall be copper type THHN, or XHHW, solid for #10 AWG or #12 AWG, and stranded for all larger

11. Conduits and cables shall be concealed wherever possible by either routing above ceiling, in interstitial spaces or running exposed in unfinished spaces where possible. Conduits may be run exposed in mechanical areas or other areas not subject to public view where approved by the owner. Wherever conduits or cables are approved to be exposed, conduits and cables shall be run parallel or perpendicular to structural elements and shall be run and bundled in groups, and the installation shall be neat and orderly. Even when exposed, conduits and cables shall be routed to minimize view from personnel. Seal all penetrations air tight around all conduits passing through walls or floors. Escutcheon plates shall be used when passing through walls that are visible to the public. Use appropriate penetration protection when conduit passes into or through rated assemblies.

12. Where branch circuit total length is greater than sixty five (65') feet from the panel, see voltage drop schedule for wire

14. Where used in these documents, the word "provide" shall mean to furnish and install the item or equipment as well as

16. The electrical contractor shall provide all necessary disconnects, switches, receptacles, etc. under the electrical bid and shall include all necessary circuits to and make final connections to the equipment furnish by all suppliers.

17. All breakers, disconnect switches, and fuses sizes, indicated for mechanical equipment, shall be verified with equipment supplier and mechanical contractor, before the purchase or installation of that equipment. 18. All disconnect switches are to be fusible type. Fuses shall be the appropriate type for the load served by Bussmann or equal. Unless unsuitable, fuses rated 1200A or higher shall be Class L, fast-acting, and shall have a clearing time of 0.07 seconds at the available fault current per NEC 240.67. Submit fuse trip curves along with available fault current at the service entrance for engineer verification prior to beginning work or ordering equipment. The contractor shall compare all installed equipment nameplate information with the electrical plans/ schedules and notify the engineer immediately of any discrepancies. The contractor shall coordinate all fuse sizes with actual installed equipment nameplate information prior to purchasing or installing fuses. Where the nameplate information does not indicate an overcurrent protection size or maximum ampacity rating, fuses shall be installed per the electrical plans assuming other equipment parameters are in agreement with nameplate data. 19. Provide grounding conductor for all circuits per NEC. Building ground shall meet all requirements of NEC 250.

20. Ground telephone equipment per NEC. If telephone service is not located within 20' of electrical service, then provide

22. All circuits 100 amp and larger shall be megger tested prior to energizing. All other circuits shall be tested for

Dielectric absorption tests shall be performed with a 2,500 volt DC megger.

The megger test shall be performed between each pair of conductors and from each conductor to ground. Each test shall be performed for 15 seconds or until the insulation resistance value stabilizes. The insulation resistance between conductors, and from each conductor to ground, shall be 25 megaohms (120-300V) or 100 megohms (600V) minimum in one minute or less. In addition, the lowest insulation resistance value shall not differ from the

Continuity checks shall be performed with a low voltage DC meter, light or bell. The resistance to ground shall be measured using either the three point method or the fall-of potential method.

Test instruments shall be calibrated to national standards to insure accuracy of tests. These calibration reports shall be made available to the Owner when requested. Depending upon frequency of use, the instruments shall

work in existing areas. Any rated constructions or assemblies affected shall be patched, protected and refinished as 24. The contractor is responsible for properly disposing of all waste materials, demo materials and other trash. This

includes but is not limited to proper disposal of mercury containing lamps, batteries, recyclable materials. 25. Contractor shall provide engineer with shop drawings/ submittal data for lights, switchgear/ panels, floor boxes, fire alarm devices, and any other products deemed necessary for review. Provide these in editable PDF format via email through project manager, GC, architect or other proper channel. Expected review duration, and industry standard, is

26. It is the <u>sole</u> responsibility of the contractor to coordinate w/ all other trades regarding voltages, loads, circuit breakers,

27. All switchgear/ panels shall be commercial grade from a reputable national manufacturer such as Square D, Eaton, Siemens and ABB. Panels shall be rated as indicated on panel schedules/ electrical riser diagram. If discrepancies

28. Engineer has reserved the right to choose the software package(s) deemed most efficient to deliver these plans for permitting, bid, and construction. Engineer considers any other digital files created during this process as instruments of service, and as such remain the property of the engineer. The contractor should not assume that digital files in any format will be made available during bidding or after award other than PDFs. If digital files are requested, engineer reserves the right to selectively provide them when available and/or may request additional considerations for the

29. Contractor shall verify all areas that are used as a return plenum with mechanical contractor and provide plenum rated cable for all cables not run in metal conduit. PVC is not allowed in plenum space. This "cable" includes all

31. All underground raceway entering the building, (i.e. through a foundation wall or through the floor) shall be sealed in accordance with NEC 225.27 and 300.5(F). Raceway seals and sealants shall be approved and listed for the specific

32. Contractor shall provide support bushings/conduit stops for vertical branch circuits and feeders where required per 33. Bi-Directional Antenna system (BDA) could be required for this facility. Contractor shall test the site before and after construction activities per NC Fire Code section 510.4. If it is deemed that a BDA system is necessary based on

these tests, a full BDA systems shall be installed that meets all requirements of NC Fire Code section 510. 34. Electrical boxes, conduit, and wiring shall not be recessed into or penetrate structural members. Boxes/conduits shall be surface mounted to structural member and/or recessed in stud wall where possible. Coordinate with architect. 35. All equipment associated with or connected to the electrical, fire alarm or data systems or otherwise included in the drawings/ scope of work shall be listed and labeled by a third party that is acceptable to the AHJ. 36. All non-locking type 125 volt, 15 and 20 amp receptacles that are controlled by an automatic control device or that incorporate control features that remove power from the outlet for the purpose of energy management or building automation shall be labeled per NEC 406.3(E).

Electrical Abbreviations

А	above- indicates a device is to be mounted with the bottom of box 2" above back splash unless noted otherwise.
AFF	above finished floor
AG	combination of 'A' and 'GFCI' (above counter and ground fault circuit interrupter)
ARCH	architect
С	ceiling- indicates a device is to be mounted in flush ceiling tile.
EC	electrical contractor
EX	existing
EXT	exterior
FA	fire alarm
FURN	furniture
G	GFCI- indicates a device with integral ground fault circuit interrupter (GFCI) protection and/or protected by upstream GFCI outlet.
GFI/ GFIC	same as 'G'
н	horizontal orientation of device
HG	hospital grade
IG	device shall have isolated ground and will require isolated ground circuitry back to an isolated ground bar in panelboard.
JB	junction box
MC	MC cable (when referring to NEC, wiring methods, or wiring type)
MC	mechanical contractor (when not referring to NEC wiring methods or type
MECH	mechanical contractor
NTS	not to scale
OC	on center
PC	plumbing contractor
PLUMB	plumbing contractor
S	surface- indicates device is to be surface mounted.
TP	tamper proof device per NEC 406.12
W/	with
WP	indicates a device rated for exterior use and is weatherproof or weather resistant with an approved weatherproof in-use cover.

Floor Plans Home run to panel/ branch circuit connection- short cross line(s) represent phase conductor(s) (hot), long cross line(s) represent grounded conductor(s) (neutral), equipment grounding conductor (ground) required but not shown. Minimum size per NEC requirements based on circuit breaker / schedule / voltage drop table. All duplex and quad receptacles shall be NEMA 5-20R unless otherwise noted. **₽** Duplex receptacle Power receptacle Quad receptacle 16" AFF or as otherwise noted Isolated ground duplex receptacle 🗲 USB 16" AFF or as otherwise noted. Duplex receptacle with (2) USB ports. Nema 5-20R Duplex Cooper TR7756 or equal. Telecommunications wall outlet - 16" AFF or as noted (run 3/4" EMT to accessible point above ceiling.) Provide pull wire. Outlet/devices, bushings, and cables provided by tenant/ cabling contractor. ЬСК Card reader- verify mounting height with tenant prior to beginning work. Stub 3/4" EMT to above ceiling with pull wire. Outlet/device and all low voltage wiring by tenant/security contractor. Coordinate with tenant/security contractor. Ø Junction box above ceiling for furniture systems. Power poles provided by furniture manufacturer/vendor. Verify location and requirements w/ furniture manufacturer/vendor prior to beginning work. Connect furniture systems as required. O Junction box Telephone backboard - 4'x8'x3/4" fire-treated plywood. Pull #6 ground wire and terminate with 1/4" x 2" x 12" ground bar with holes every 1". Mount to backboard with stand-off insulators. Electrical panel \square Step-down transformer Electrical disconnect Motor rated switch Pump All lighting control switches shall be mounted at 44" AFF unless otherwise noted. (All motion sensors shall be set to 30 minute delay) Single pole switch Dimmer switch (slide type) appropriate for load served Line voltage motion-sensing switch. Wattstopper #PW-301 3-way wall switch 4-way wall switch Line voltage motion-sensing 0-10v dimmer switch. Wattstopper #PW-311 Line voltage dual relay motion-sensing switch. Wattstopper #PW-302. To be connected as double switch control. Double switch (used when two switch legs are connected to each fixture for bi-level switching, step dimming or similar.) Low voltage wall/ceiling mounted motion sensor. Wattstopper #DT-200. Mount on wall at 10' AFF where ceilings are not present or are over 10' AFF. Mount to ceiling where ceilings are 10' AFF or lower. PP 120/277V to 24V power pack. Wattstopper #BZ-150

😨 S2 Low voltage 360° ceiling mounted motion sensor. Wattstopper #DT-300 😨 S4 Low voltage 360° ceiling mounted motion sensor. Wattstopper #DT-305-3 🕞 DH Low voltage 360° ceiling mounted daylighting sensor. Wattstopper #LS-301.

See fire alarm legend for fire alarm symbols & specifications

Electrical Symbols shown below are indicative of new devices. See Linetyp

Leae	end
e Legend for	distinction of existing and demolition devices.
· .	Overhead fixture unless otherwise noted. See fixture schedule
a Q	Downlight / pendant style fixture. See fixture schedule.
	Slash or shading indicates fixture connected ahead of switch/controls and to operate as night lights (fixture will be on 24/7 unless otherwise noted)
\bigotimes	Exit sign, faces and arrows as indicated. See fixture schedule.
Ĺ	Emergency wallpack fixture. See fixture schedule.
\otimes	Combo emergency / exit fixture. See fixture schedule.
-¤	Wall sconce/ mount fixture. See fixture schedule
~	Flood light/ track head style fixture. See fixture
~ -	schedule. Pole mounted fixture. See fixture schedule.
	Detail Sheets
-	٦
Р	
	Electrical panelboard
200/3	→ Main breaker or minimum ampacity
M	Meter in meter base
СТ	CT cabinet
]
200/3	Frame size/ number of poles
	Fusible disconnect, frame and fuse size as indicated or noted.
150A	Fuse size
75 KVA	Transformer designation
	Transformer size and designation as indicated
K	Primary voltage as noted in panel schedule/ for
	schedule/ for load supplied.
+	
	Service ground
	Linetypes
	 New device unless otherwise noted Existing device to remain Existing device to be demolished
	- New underslab or underground connection. Existing and demo underground noted with existing or demo linetype. New connections not specifically shown to be underground are not necessarily required to be run overhead unless noted as such.
<u> </u>	- Low voltage wiring
<u>Examples</u>	of existing and demolition symbols using above linetypes.
Ē	Existing floor box to remain
ಕ್ರ	Existing duplex receptacle to remain
==	Existing panel to remain
XR •	Existing light fixture to remain
╚╌╌╌╌╝	Existing switch to remain
^ح ا	LAISUNG SWICH IN RINALL
ġ	Existing light fixture to remain
\ \$	Existing sign to remain
:::::::::::::::::::::::::::::::::::::::	Existing duplex receptacle to be demolished
.::::	Existing panel to be demolished or relocated
XD •	Existing light fixture to be demolished or relocated
ശ.	Existing switch to be demolished or relocated

See wall rating legend for wall types and symbols

APPROVAL

DATE:

ALIGN

3684

These drawings will be at the scale indicated when plotted at 24" x 36"




All electrical boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. All electrical boxes mounted in rated ceilings/horizontal assemblies shall comply with all requirements of the 2018 NCSBC, section 714.4.2. Devices shown in rated assemblies shall be flush with conduit concealed, unless otherwise indicated. Provide rated boxes, horizontal separation, putty pads, etc. as required for proper installation. Low voltage electrical devices mounted in rated assemblies shall be protected in accordance with the sections listed above as well. Individual branch circuits are shown with a dedicated neutral unless otherwise noted. When multi-wire branch circuits are to be installed, provide multi-pole circuit breakers as required. NEC 210.7 3. See voltage drop schedule for wire sizing information for all branch circuits over 65' in length. 4. All receptacles within 6 feet from the outside edge of any sink shall be GFCI. NEC 210.8(B)(5)

5. All 120V, 15 and 20 A receptacles in this facility shall be listed as tamper resistant.

Plan Notes:

- WP GFI receptacle on exterior wall for maintenance. Connect to circuit 'B-35' as required. Coordinate exact locations with mechanical. Typical.
- Stub 2-2" conduits to property line for telephone service. Provide pull wire in each conduit. Coordinate exact location and requirements with telephone company. 3. Provide lockable 30/1 disconnect fused at 20 amps above ceiling/up high on wall for sign
- circuit per NEC 600.5. Connect as required. 4. Junction box for sprinkler bell. Bell furnished by sprinkler contractor, installed and connected by electrical contractor. Connect to 120/1 circuit through main sprinkler riser flow switch to be energized during a water flow in the sprinkler system. Coordinate with
- sprinkler contractor. 5. Connect hot box heater as required. Verify heater nameplate requirements as well as voltage drop requirements prior to beginning work. Coordinate with civil/sprinkler.
- 6. Connect exhaust fan controlled by wall switch as required. Coordinate with mechanical. 7. Connect electric water heater as required. Coordinate with plumbing.
- 8. Connect fire alarm control panel and power extender to a 120/1 circuit w/ locked breaker. 9. Connect exhaust fan controlled by 24V controls as required. Fan interlocked with louver.
- Coordinate with mechanical. 10. Door opener control panel. Coordinate exact location and requirements with equipment supplier. Connect as required.
- 11. Connect air compressor as required. Coordinate exact location and requirements with equipment supplier.
- 12. Connect HVLS fan as required. Coordinate with mechanical.
- 13. Low voltage variable speed standard controller. Connect as required. Coordinate exact location and requirements with owner/equipment supplier.
- 14. Provide motor switch for dishwasher connection in adjacent base cabinet under sink. Coordinate exact requirements with equipment supplier.
- 15. Junction box for automatic sensors for faucets. Connect to circuit 'B-27'. Verify location prior to beginning work. Connect as required. Typical. 16. Push-button for door opener. Provide junction box and 3/4" conduit to door opener control
- panel. Coordinate exact location and requirements with equipment supplier. Typical. 17. Approximate location of new generator on concrete pad. See civil for exact location. See structural for concrete pad details. See electrical riser diagram for specification and more information.
- 18. Connect Generator block heater as required. Coordinate exact location and requirements and location with equipment supplier.
- 19. Provide 2-1" conduits from generator to ATS for controls. Provide pull wire in each. Coordinate location and requirements with equipment supplier and tenant prior to installation.
- 20. Generator annunciator panel. Verify location with tenant prior to installation. See riser diagram for annunciator requirements. 21. Connect generator battery charger as required. Coordinate exact requirements and
- location with equipment supplier. 22. Connect air handler as required. Coordinate with mechanical.
- 23. Connect heat pump as required. Coordinate with mechanical.
- 24. Connect condensate pump as required. Coordinate with mechanical.
- 25. Connect infrared radiant heater as required. Coordinate with mechanical.
- 26. Connect to circuit 'A-3' with other condensate pumps as required.
- 27. Connect gear dry cabinet as required. Coordinate exact location and requirements with equipment supplier.
- 28. Connect fill station as required. Coordinate exact location and requirements with equipment supplier.
- 29. Lighting control panel. See riser diagram and details for additional information. Connect as required
- 30. Connect louver as required. Coordinate with mechanical. 31. Not Used.
- 32. Connect cord reel at structure as required.
- 33. Not Used.

- 34. Connect door opener as required. Coordinate exact location and requirements with equipment supplier.
- 35. Connect CO/NO2 monitoring control panel as required. Coordinate with mechanical. 36. Connect hood above gas range as required. Coordinate exact location and requirements with architect prior to rough-in.

ed walls shall comply with all requirements of the electrical boxes mounted in rated ceilings/horizontal quirements of the 2018 NCSBC, section 714.4.2. s shall be flush with conduit concealed, unless	ALIGN engineering 919.275.1935 NC License № P-2396 P.O. Box 28313, Raleigh, NC 27611	APPROVAL: DATE:
boxes, horizontal separation, putty pads, etc. as w voltage electrical devices mounted in rated coordance with the sections listed above as well. In with a dedicated neutral unless otherwise noted. to be installed, provide multi-pole circuit breakers sizing information for all branch circuits over 65' in the outside edge of any sink shall be GFCI. NEC	SEAL 36841	
in this facility shall be listed as tamper resistant.	D. COP	
for maintenance. Connect to circuit 'B-35' as required.	ERVED.	BOBBITT A&E, PLLC 600 Germantown Road Raleigh, North Carolina 27607
chanical. Typical. for telephone service. Provide pull wire in each conduit. irements with telephone company. used at 20 amps above ceiling/up high on wall for sign required. furnished by sprinkler contractor, installed and Connect to 120/1 circuit through main sprinkler riser	IC. ALL RIGHTS RES	BARTA BARTA Paigh, North Carolina 276 Fax (919) 851-1982 Dbitt.com
a water flow in the sprinkler system. Coordinate with d. Verify heater nameplate requirements as well as beginning work. Coordinate with civil/sprinkler. wall switch as required. Coordinate with mechanical. equired. Coordinate with plumbing.	T DESIGN BUILD, IN	Phone (919) 851-1980 design@bol
24V controls as required. Fan interlocked with louver. nate exact location and requirements with equipment d. Coordinate exact location and requirements with	© 2022 BOBBIT	COORDINATOR:
ordinate with mechanical. rd controller. Connect as required. Coordinate exact ner/equipment supplier. er connection in adjacent base cabinet under sink.	COPYRIGHT	DRAWN BY: CHK BY:
n equipment supplier. for faucets. Connect to circuit 'B-27'. Verify location s required.Typical. de junction box and 3/4" conduit to door opener control nd requirements with equipment supplier. Typical. rator on concrete pad. See civil for exact location. See See electrical riser diagram for specification and more		Aving, but a copy of a awing, but a copy of a as been unlocked. This locked for the ease of use of use of actual certified document sfor electronic signatures of or electronic signatures.
required. Coordinate exact location and requirements er. or to ATS for controls. Provide pull wire in each. nts with equipment supplier and tenant prior to y location with tenant prior to installation. See riser		This is not a certified d certified drawing that h document has been un the AHJ, contractor, et accompanied with the meeting the boards rul
nts. as required. Coordinate exact requirements and pordinate with mechanical.		ю О
oordinate with mechanical. ired. Coordinate with mechanical. required. Coordinate with mechanical. ondensate pumps as required. ed. Coordinate exact location and requirements with		Ž Z
ordinate exact location and requirements with agram and details for additional information. Connect as inate with mechanical.		ATIC
equired.		AROI
ol panel as required. Coordinate with mechanical. required. Coordinate exact location and requirements		FIRI RTH RTH C
		GTON GTON
		LILL 2873 N LILLIN
		09/19/2024
See architectural sheets for more information on ra constructions including structure where applica constructions as required	Legend atings and additional rated able. Protect all rated	24-0013 FLOOR PLAN - POWER
New Wall being Constructed		E1.1
		OF - 13

constructions as required.								
New Wall being Constructed								
One Hour Fire Barrier —								



All electrical boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. All electrical boxes mounted in rated ceilings/horizontal assemblies shall comply with all requirements of the 2018 NCSBC, section 714.4.2. Devices shown in rated assemblies shall be flush with conduit concealed, unless otherwise indicated. Provide rated boxes, horizontal separation, putty pads, etc. as required for proper installation. Low voltage electrical devices mounted in rated assemblies shall be protected in accordance with the sections listed above as well.

- Individual branch circuits are shown with a dedicated neutral unless otherwise noted. When multi-wire branch circuits are to be installed, provide multi-pole circuit breakers as required. NEC 210.7
- 3. See voltage drop schedule for wire sizing information for all branch circuits over 65' in length.
- 4. All receptacles within 6 feet from the outside edge of any sink shall be GFCI. NEC 210.8(B)(5)
- 5. All 120V, 15 and 20 A receptacles in this facility shall be listed as tamper resistant.

Plan Notes:

information.

- WP GFI receptacle on exterior wall for maintenance. Connect to circuit 'B-35' as required. Coordinate exact locations with mechanical. Typical.
- Stub 2-2" conduits to property line for telephone service. Provide pull wire in each conduit. Coordinate exact location and requirements with telephone company. Provide lockable 30/1 disconnect fused at 20 amps above ceiling/up high on wall for sign
- circuit per NEC 600.5. Connect as required. 4. Junction box for sprinkler bell. Bell furnished by sprinkler contractor, installed and connected by electrical contractor. Connect to 120/1 circuit through main sprinkler riser
- flow switch to be energized during a water flow in the sprinkler system. Coordinate with sprinkler contractor. 5. Connect hot box heater as required. Verify heater nameplate requirements as well as
- voltage drop requirements prior to beginning work. Coordinate with civil/sprinkler. 6. Connect exhaust fan controlled by wall switch as required. Coordinate with mechanical.
- 7. Connect electric water heater as required. Coordinate with plumbing.
- 8. Connect fire alarm control panel and power extender to a 120/1 circuit w/ locked breaker. 9. Connect exhaust fan controlled by 24V controls as required. Fan interlocked with louver. Coordinate with mechanical.
- 10. Door opener control panel. Coordinate exact location and requirements with equipment supplier. Connect as required.
- 11. Connect air compressor as required. Coordinate exact location and requirements with equipment supplier.
- 12. Connect HVLS fan as required. Coordinate with mechanical.
- 13. Low voltage variable speed standard controller. Connect as required. Coordinate exact location and requirements with owner/equipment supplier.
- 14. Provide motor switch for dishwasher connection in adjacent base cabinet under sink. Coordinate exact requirements with equipment supplier.
- 15. Junction box for automatic sensors for faucets. Connect to circuit 'B-27'. Verify location prior to beginning work. Connect as required. Typical. 16. Push-button for door opener. Provide junction box and 3/4" conduit to door opener control
- panel. Coordinate exact location and requirements with equipment supplier. Typical. 17. Approximate location of new generator on concrete pad. See civil for exact location. See structural for concrete pad details. See electrical riser diagram for specification and more
- 18. Connect Generator block heater as required. Coordinate exact location and requirements and location with equipment supplier.
- 19. Provide 2-1" conduits from generator to ATS for controls. Provide pull wire in each. Coordinate location and requirements with equipment supplier and tenant prior to installation.
- 20. Generator annunciator panel. Verify location with tenant prior to installation. See riser diagram for annunciator requirements.
- 21. Connect generator battery charger as required. Coordinate exact requirements and location with equipment supplier. 22. Connect air handler as required. Coordinate with mechanical.
- 23. Connect heat pump as required. Coordinate with mechanical.
- 24. Connect condensate pump as required. Coordinate with mechanical.
- 25. Connect infrared radiant heater as required. Coordinate with mechanical.
- 26. Connect to circuit 'A-3' with other condensate pumps as required.
- 27. Connect gear dry cabinet as required. Coordinate exact location and requirements with equipment supplier.
- 28. Connect fill station as required. Coordinate exact location and requirements with equipment supplier.
- 29. Lighting control panel. See riser diagram and details for additional information. Connect as required
- 30. Connect louver as required. Coordinate with mechanical. 31. Not Used.
- 32. Connect cord reel at structure as required.
- 33. Not Used.
- 34. Connect door opener as required. Coordinate exact location and requirements with equipment supplier.
- 35. Connect CO/NO2 monitoring control panel as required. Coordinate with mechanical. 36. Connect hood above gas range as required. Coordinate exact location and requirements with architect prior to rough-in.

		DATE:
ed walls shall comply with all requirements of the electrical boxes mounted in rated ceilings/horizontal quirements of the 2018 NCSBC, section 714.4.2.	engineering 919.275.1935 NC License № P-2396 P.O. Box 28313. Baleigh, NC 27611	
s shall be flush with conduit concealed, unless boxes, horizontal separation, putty pads, etc. as w voltage electrical devices mounted in rated cordance with the sections listed above as well.	A. Q.b	
n with a dedicated neutral unless otherwise noted. to be installed, provide multi-pole circuit breakers		
sizing information for all branch circuits over 65' in	SEAL	
e outside edge of any sink shall be GFCI. NEC	7 36841	
in this facility shall be listed as tamper resistant.	D COPE THE	
	4/1/25	
	VED.	BOBBITT A&E, PLLC 600 Germantown Road Raleigh, North Carolina 27607
for maintenance. Connect to circuit 'B-35' as required. chanical. Typical. for telephone service. Provide pull wire in each conduit. irements with telephone company. used at 20 amps above ceiling/up high on wall for sign required.	L RIGHTS RESER	orth Carolina 27607
furnished by sprinkler contractor, installed and Connect to 120/1 circuit through main sprinkler riser a water flow in the sprinkler system. Coordinate with	0, INC. AL	Raleigh, No 80 Fax (9 20 bobbitt.co
I. Verify heater nameplate requirements as well as beginning work. Coordinate with civil/sprinkler. wall switch as required. Coordinate with mechanical. quired. Coordinate with plumbing. Ind power extender to a 120/1 circuit w/ locked breaker.	ITT DESIGN BUILD	Sermantown Road Phone (919) 851-19 design(
24V controls as required. Fan interlocked with louver.	22 BOBB	
d. Coordinate exact location and requirements with	HT © 202	
ordinate with mechanical. rd controller. Connect as required. Coordinate exact per/equipment supplier	OPYRIG	
er connection in adjacent base cabinet under sink. n equipment supplier.	0	
for faucets. Connect to circuit 'B-27'. Verify location s required.Typical. de junction box and 3/4" conduit to door opener control		Value Engineering 4/09/25
Id requirements with equipment supplier. Typical. ator on concrete pad. See civil for exact location. See See electrical riser diagram for specification and more		but a copy of unlocked. Th for the ease of as originally etrified gioralt
required. Coordinate exact location and requirements er.		ad drawing, at has been n unlocked 1 ; etc. and w ; etc. and w ercual c
or to ATS for controls. Provide pull wire in each. nts with equipment supplier and tenant prior to		not a certifie d drawing th ant has beer J, contractor anied with 1 g the boards
y location with tenant prior to installation. See riser		This is r certified docume the AHJ accomp meeting
as required. Coordinate exact requirements and		S
pordinate with mechanical.		Ο
oordinate with mechanical. ired. Coordinate with mechanical.		Ž
required. Coordinate with mechanical. ondensate pumps as required.		Ζ
ed. Coordinate exact location and requirements with		ō
ordinate exact location and requirements with		
gram and details for additional information. Connect as		
nate with mechanical.		
equired.		S O
Coordinate exact location and requirements with		Ш
b panel as required. Coordinate with mechanical.		
required. Coordinate exact location and requirements		
		0 7 U
		H LL
	· · · · · · · · · · · · · · · · · · ·	09/19/2024
See architectural sheets for more information on ra constructions including structure where application	Legend tings and additional rated ble. Protect all rated	FLOOR PLAN -
constructions as required.		
New Wall being Constructed		F1 2
One Hour Fire Barrier		

APPROVAL

New Wall being Constructed	E1 2
One Hour Fire Barrier	
	OF - 13



- All electrical boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. All electrical boxes mounted in rated ceilings/horizontal assemblies shall comply with all requirements of the 2018 NCSBC, section 714.4.2. Devices shown in rated assemblies shall be flush with conduit concealed, unless otherwise indicated. Provide rated boxes, horizontal separation, putty pads, etc. as required for proper installation. Low voltage electrical devices mounted in rated assemblies shall be protected in accordance with the sections listed above as well.
- Connect wall packs or other normally off emergency lights, exit signs and night lights ahead of local switches and/or controls. (total fixture unswitched). Where lights are not indicated as night lights, fixtures with emergency batteries shall be connected with the battery ahead of switch so that the emergency battery comes on only in the event of power loss. Fixture is normally controlled with the other lights under normal conditions.
- See motion sensor details for specifications and wiring details. All motion sensors, new and existing, shall be set to a 30 minute time delay.
- Lighting controls including occupancy sensors, automatic time switches, automatic shut-off controls, or daylight/ occupant sensing automatic controls, the electrical contractor shall be responsible for testing the lighting controls per section C408.3 of the 2018 NC Energy Conservation Code. Ensure that control devices, components, and systems are calibrated, adjusted and operate in accordance with the approved plans and/or specifications. Sequences of operation shall be functionally tested to ensure they operate in accordance with the approved plans and/or specifications.
- Individual branch circuits are shown with a dedicated neutral unless otherwise noted. When multi-wire branch circuits are to be installed, provide multi-pole circuit breakers as required. NEC 210.7
- See voltage drop schedule for wire sizing information for all branch circuits over 65' in length.
 Circuit breakers used for switching lights shall be rated for switching. NEC 240.83(D)

- Motion sensor to control all lights in this room. See motion sensor wiring diagrams. Provide required power packs to control all lights with override off switches as shown.
 Connect emergency and exit lights ahead of local switch/controls so that total fixture is
- unswitched. Connect as required.
 3. Contractor shall connect battery in/for light fixture ahead of switch/controls so that emergency ballast/inverter comes on only in the event of power loss. Fixture is switched with other normal lights under normal conditions.
- 4. Connect to circuit 'B-28' with other lights.



BOBBITT A&E, PLLC 600 Germantown Koad Billin North Carolina 27607 Phone (919) 851-1982 design@bobbitt.com

APPROVAL:

DATE:

COORDINATOR:

DRA	WN B	Y:
CH	IK BY	' :
<u> </u>		
<u>/1</u> Value E	ngineerir	ng 4/09/25 "ອ
	of a This	e of use ly ument natures
	t a copy llocked.	the eas original fied doc onic sigi
	ving, bu been ur	cked for and was ual certi or electr
	fied drav that has	en unloo or, etc. a n the act ds rule fi
	ot a certi Irawing	t has be contract nied witl he board
	his is no ertified o	ocumen ne AHJ, ccompa neeting t
~	⊢ 0	2940
C)		
Ο		
Ž		
Ž		
\mathbf{O}		
F		\triangleleft
ব		Ż
Ś		Q
Ш		C)
	—	Ť
Ē	È	Ē
_	Ċ	Ř
	\overline{O}	2
Ö	Ζ	Ζ
	10	Ζ
U	Ň	0
Ζ	\mathbf{O}	L L
	Ζ	ž
	3	
		ī

	28 LII
	09/19/2024
]	24-0013
	FLOOR PLAN - LIGHTING
	E2.1 OF - 13

Wall Ratings and Types Legend									
See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.									
New Wall being Constructed New Partial Height Wall being Constructed One Hour Fire Barrier									





- All electrical boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. All electrical boxes mounted in rated ceilings/horizontal assemblies shall comply with all requirements of the 2018 NCSBC, section 714.4.2. Devices shown in rated assemblies shall be flush with conduit concealed, unless otherwise indicated. Provide rated boxes, horizontal separation, putty pads, etc. as required for proper installation. Low voltage electrical devices mounted in rated assemblies shall be protected in accordance with the sections listed above as well.
- Connect wall packs or other normally off emergency lights, exit signs and night lights ahead of local switches and/or controls. (total fixture unswitched). Where lights are not indicated as night lights, fixtures with emergency batteries shall be connected with the battery ahead of switch so that the emergency battery comes on only in the event of power loss. Fixture is normally controlled with the other lights under normal conditions.
- See motion sensor details for specifications and wiring details. All motion sensors, new and existing, shall be set to a 30 minute time delay.
- Lighting controls including occupancy sensors, automatic time switches, automatic shut-off controls, or daylight/ occupant sensing automatic controls, the electrical contractor shall be responsible for testing the lighting controls per section C408.3 of the 2018 NC Energy Conservation Code. Ensure that control devices, components, and systems are calibrated, adjusted and operate in accordance with the approved plans and/or specifications. Sequences of operation shall be functionally tested to ensure they operate in accordance with the approved plans and/or specifications.
- Individual branch circuits are shown with a dedicated neutral unless otherwise noted. When multi-wire branch circuits are to be installed, provide multi-pole circuit breakers as required. NEC 210.7
- See voltage drop schedule for wire sizing information for all branch circuits over 65' in length. • Circuit breakers used for switching lights shall be rated for switching. NEC 240.83(D)

Plan Notes:

- Motion sensor to control all lights in this room. See motion sensor wiring diagrams. Provide required power packs to control all lights with override off switches as shown. 2. Connect emergency and exit lights ahead of local switch/controls so that total fixture is
- unswitched. Connect as required. 3. Contractor shall connect battery in/for light fixture ahead of switch/controls so that emergency ballast/inverter comes on only in the event of power loss. Fixture is switched with other normal lights under normal conditions.
- 4. Connect to circuit 'B-28' with other lights.





CAROLINA

NORTH NORTH

FIRE

INGTON

LILLINGTC 2873 NC 210 N LILLINGTON, I

APPROVAL:

DATE:

	09/19/2024
Wall Ratings and Types Legend	24-0013
See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.	FLOOR PLAN - LIGHTING
New Wall being Constructed	E2.2
	UF - 13





	Generator Test and Startup Notes	1	
Hire gen	e a certified testing agency to conduct tests, inspections, and erate reports for the generator.		Panel: A
Eng and con	age a factory-authorized service representative to inspect, test, calibrate components, assemblies, and installations, including nections.		Mounting: Surface
Cor to:	nduct manufacturer-recommended tests, including but not limited		Load Type
1.	Single-step full-load pickup test.		EF-1 thru EF-7 Condensate Pumps
2.	Battery tests:		Sprinkler Bell/Flow Switch
2.	 Equalize the charging of battery cells per the manufacturer's instructions. Record the voltage of each cell. 		Door Opener Fill Station
2.	 Measure the charging voltage and the voltages between available battery terminals for both full-charge and float-charge conditions. Check electrolyte levels and specific gravity in both states 		Generator Battery Charge
2.	 Test the contact integrity of all connectors, and perform both integrity and capacity load tests on the battery 		HP-2
2.	 Confirm that each battery element accepts a charge after discharge. 		HP-4
2.	 Ensure all measurements meet the manufacturer's specifications. 		AHU-3
3.	Battery-charger tests: Verify the charge rates for both		AHU-2
_		$ \mathcal{L} $	Door Opener
4.	System integrity tests: Methodically verify the proper installation, connection, and functionality of each component of		Door Opener
	the engine-generator system both before and during operation. Check for air, exhaust, and fluid leaks.		Automated Bi-fold Door Ope
5.	Exhaust-system back-pressure test: Connect to the exhaust line near the engine manifold and ensure that back pressure at full-rated load stays within the manufacturer's specified limits.		
6.	Exhaust emissions test: Adhere to applicable government and environmental testing criteria.		
7.	Voltage and Frequency transient stability tests: Measure voltage and frequency transients for 50% and 100% step-load changes, and confirm performance matches specifications.		Lignting: <u>4.0</u> k Largest Motor: <u>k</u> Gen Receptacles: <u>14.4</u> k Kitchen Equipment: k
8.	Harmonic-content tests: Measure the harmonic content of the output voltage under 25% and 100% of rated linear load, ensuring it stays within specified limits.		All Other: <u>125.8</u> kV
9.	Noise level tests: Measure the A-weighted noise level from the generator installation, including the engine exhaust and cooling-air intake and discharge. Compare the levels with the required values.		X UL SE rated X Separate Neutral Bar X Ground bar
10.	Coordinate generator tests with tests for transfer switches and run them concurrently.		
11.	Leak test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.		
12.	Operational test: Once the electrical circuitry is energized, start the unit to verify proper motor rotation and operation.		
13.	Test and adjust controls and safeties. Replace any damaged or malfunctioning controls and equipment.		
14.	Remove and replace malfunctioning units and retest according to the specified procedures above.		
15.	Retest: Address any deficiencies identified during tests and observations, and retest until all specified requirements are satisfied.		
[Generator Note:]	Motorized
	Contractor must submit plans for generator, tank, and shop drawings to the fire marshal for their approval prior to		Damper

rough-in or installation of the generator. Fire marshal must approve location and specifications for generator prior to beginning work.

Notes:
1 All nower w
2. Disconnect

Supply Side Bounding Jumper - Incoming Ungrounded service conductors All present grounding electrodes described in NEC Neutral Conductor 250.50 shall be bonded to form the grounding electrode system. The reference diagram is for supplemental purposes only. Contractor shall comply for all necessary requirements of NEC 250. Neutral Bar – - Ground Bar Service Equipment Main Bounding Jumper Ground Electrode Conductor -- Metal Water Piping Main Bounding Jumper Ground Rod — - Concrete Encased Electrode 2 Grounding Electrode System Detail



installation. • Provide standard 24 month parts & labor warranty for standby usage.

location of annunciator panel with tenant prior to

Scale: None

OF - 13

	Equipment Connection Schedule													
TagCalloutFurnished BykVA		HP	Voltage	FLA	MCA	Disconnect Size	Provided By	Nema Configuration	Fuse/Breaker Size	Feeder Size	Ground Size	Conduit Size		
HP-1	Heat Pump	Mechanical	3.1		208/1	-	15.0	30/2	Elec	3R	25/2	3-#10	1-#10	3/4"
HP-2	Heat Pump	Mechanical	3.1		208/1	-	15.0	30/2	Elec	3R	25/2	3-#10	1-#10	3/4"
HP-3	Heat Pump	Mechanical	3.1		208/1	-	15.0	30/2	Elec	3R	25/2	3-#10	1-#10	3/4"
HP-4	Heat Pump	Mechanical	3.1		208/1	-	15.0	30/2	Elec	3R	25/2	3-#10	1-#10	3/4"
HP-5	Heat Pump	Mechanical	3.1		208/1	-	15.0	30/2	Elec	3R	25/2	3-#10	1-#10	3/4"
AHU-1	Air Handler	Mechanical	3.8		208/1	18.5	-	30/2	Elec	1	25/2	3-#10	1-#10	3/4"
AHU-2	Air Handler	Mechanical	6.0		208/1	28.9	-	60/2	Elec	1	40/2	3-#8	1-#10	3/4"
AHU-3	Air Handler	Mechanical	6.0		208/1	28.9	-	60/2	Elec	1	40/2	3-#8	1-#10	3/4"
AHU-4	Air Handler	Mechanical	3.8		208/1	18.5	-	30/2	Elec	1	25/2	3-#10	1-#10	3/4"
AHU-5	Air Handler	Mechanical	6.0		208/1	28.9	-	60/2	Elec	1	40/2	3-#8	1-#10	3/4"
					/-						1 = 12			
EWH1	Electric Water Heater	Plumbing	12.3		208/3	34.1	-	60/3	Elec	1	45/3	4-#8	1-#10	3/4"
EWH2	Electric Water Heater	Plumbing	4.5	-	208/1	21.6	-	30/2	Elec	1	30/2	3-#10	1-#10	3/4"
		Mashaniaal	0.4		100/1	0.0				4	20/4	0 #40	4 #40	2/4"
EF-1	Exhaust Fan	Mechanical	0.1	-	120/1	0.8	-	\$M ¢	Elec	1	20/1	2-#12	1-#12	3/4"
	Exhaust Fan	Mechanical	0.1	-	120/1	0.8	-	\$ ∲	Elec	1	20/1	2-#12	1-#12	3/4
	Exhaust Fan	Mechanical	0.1	-	120/1	0.0	-	ቅ M ቀ	Elec	1	20/1	2-#12	1 #12	3/4
	Exhaust Fan	Mechanical	0.1	-	120/1	0.0	-	ቅ ለ የ	Elec	1	20/1	2-#12 2_#12	1-#12	3/4
EF-6	Exhaust Fan	Mechanical	0.1	-	120/1	0.0	-	ΨM \$	Elec	1	20/1	2-#12	1_#12	3/4
EF-7	Exhaust Fan	Mechanical	0.1	_	120/1	5.8		• • •	Flec	1	20/1	2-#12	1-#12	3/4"
EF-8	Exhaust Fan	Mechanical	1.9	_	120/1	16.0	_	\$м	Elec	1	20/1	2-#12	1-#12	3/4"
					.20/1			Ŧ 101	2.00		20,1			0,1
L-8	Louver	Mechanical	0.1	_	120/1	0.8	_	\$ _M	Elec	1	20/1	2-#12	1-#12	3/4"
L-9	Louver	Mechanical	0.1	_	120/1	0.8	-	\$ _M	Elec	1	20/1	2-#12	1-#12	3/4"
IRH-1	Infrared Radiant Heater	Mechanical	0.1		120/1	0.8	-	\$м	Elec	1	20/1	2-#12	1-#12	3/4"
IRH-2	Infrared Radiant Heater	Mechanical	0.1		120/1	0.8	-	\$ _М	Elec	1	20/1	2-#12	1-#12	3/4"
HVLS-1	High Volume Fan	Mechanical	2.8		208/1	13.3	-	30/2	Elec	1	25/2	3-#10	1-#10	3/4"
AC	Air Compressor	Others	5.5	5	208/3	15.2	-	30/3	Elec	1	20/3	4-#12	3/4"	3/4"
-	Fill Station	Others	8.3		208/1	40.0	-	6-50R	Others	1	20/2	3-#8	1-#10	3/4"
			~~~~~~				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
<pre>}</pre>														
hun	Block Heater	Others	4.0	h	208/1	19.2	min	30/2	Elec	himpin	25/2	3-#10	1-#10	3/4"
-	Battery Charger	Others	2.1		208/1	10.0	-	30/2	Elec	1	20/2	3-#12	3/4"	3/4"
-	Condensate Pump	Mechanical	0.1	-	120/1	0.8	-	\$ _M	Elec	1	15/1	2-#12	1-#12	3/4"
L	· ·	1		1	1	1	1	1 1	1	1	1	1	I	

Breaker sizes for all equipment sized at MOCP where applicable.

All disconnects for equipment shall be of fusible type and shall be fused as indicated.

	Equipment Connection Schedule														
Tag	Callout	<b>Furnished By</b>	KVA	HP	Voltage	FLA	MCA	<b>Disconnect Size</b>	<b>Provided By</b>	Nema Configuration	Fuse/Breaker Size	Feeder Size	<b>Ground Size</b>	<b>Conduit Size</b>	Note
-	Ice Machine	Others	1.4	1	120/1	11.5		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
1	Freezer	Others	0.4	-	120/1	3.7		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
-	Fridge	Others	0.8	-	120/1	6.9		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
-	Washer	Others	1.4	1	120/1	12.0		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
I	Dryer	Others	5.0	I	208/1	24.0		14-30R	Electrical	1	30/2	3 - #10	#10	3/4"	-
I	Washer-Extractor	Others	1.4	Ŧ	120/1	12.0		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
-	Gear Dry Cab	Others	14.4	I	208/3	40.0		60/3	Electrical	1	50/3	4 - #8	#10	3/4"	-
-	Dishwasher	Others	1.0	-	120/1	8.0		М	Electrical	1	20/1	2 - #12	#12	3/4"	-
	Gas Range	Others	1.0	-	120/1	8.0		5-20R	Electrical	1	20/1	2 - #12	#12	3/4"	-
	Hood	Others	0.5	1	120/1	4.2		M	Electrical	1	20/1	2 - #12	#12	3/4"	-

Electrical contractor shall verify all requirements, mounting height, voltage, load, connection type, etc. with equipment supplier.

Light Fixture Schedule											
Mark	Manufacturer	Fixture Description	Voltage	Driver Type	Lamp Type/Quantity	Total Wattage					
Α	Lithonia #2BLT4-40L-EZ1-LP840	2X4 LED Volumetric Troffer	120/1	1- LED Driver	4000 Lumen LED Light Engine	31					
AE	Same as 'A' with battery	2X4 LED Volumetric Troffer	120/1	1- LED Driver	4000 Lumen LED Light Engine	31					
В	Lithonia #IBGN-30000LM-SEF-*-ND- MVOLT-GZ10-40K-80CRI-DWH	LED High Bay	120/1	1-LED Driver	30,000 Lumen LED Light Engine	108					
BE	Same as 'B' with battery	LED High Bay	120/1	1-LED Driver	30,000 Lumen LED Light Engine	108					
С	Eurofase #31801-010	Wall Sconce	120/1	1-LED Driver	1-LED	21					
D	Lithonia #CLX L48-4000LM-SEF-*-*-WD- MVOL-EZ1-40K-80CRI-WH	4' LED Linear	120/1	1-LED Driver	4000 Lumen LED Light Engine	32					
F	Lithonia CLX #L96-4000LM-SEF-*-*-WD- MVOL-EZ1-40K-80CRI-WH	3-4000LM-SEF-*-*-WD-         8' LED Linear         120/1         1-LED Drive           -40K-80CRI-WH         8' LED Linear         120/1         1-LED Drive		1-LED Driver	4000 Lumen LED Light Engine	64					
Н	Elite Lighting #4-OC1-LED-4000L-DIM10-MVOLT-40K-85-*	4' Surface Linear	120/1	1-LED Driver	4000 Lumen LED Light Engine	27					
w	Lithonia #WST LED-P1-40K-VW-120	Exterior LED Wall Pack (Full cut-off)	120/1	1- LED Driver	LED	11					
WE	Same as 'W' with battery	Exterior LED Wall Pack (Full cut-off)		1- LED Driver	LED	11					
W1	Cocoweb #BOAW18CR-15R-A	Exterior Gooseneck Wall Sconce (Full cut-off)	120/1	1- LED Driver	LED	24					
S1	Cooper Lighting Solutions #GAN-AF-03-LED-U-T4W-7030 (by Duke Energy)	25' Site Pole Light (Full cut-off)	120/1	1- LED Driver	LED	150					
S2	Holophane #WFCL2 P30 30K XX L3 FPD75 (by Duke Energy)	16' Site Pole Light (Full cut-off)	120/1	1- LED Driver	LED	50					
			400/4								
		Emergency Exit Light (w/ Battery)	120/1								
	Isolite #EUG-AC-R-##-MITEB (2 Face)	Emergency Exit Light (W/ Battery)	120/1								
1	General Notes:	018 North Carolina Energy Concentration Code and	h shall ha Lill listor	d All led drivers shall comply w							
'. 	All name releasted or required firtures that utilize beliests shall be	a provided with a luminaira disconnect where requi		ion 410 120(C). Loo Ideal Dow	arDlug or equal incide fivtur						
2.	All new, relocated, or reswitched lixtures that utilize ballasts shall b	e provided with a luminaire disconnect where requ				e.					
3.	<ol> <li>All fixtures noted as emergency shall have emergency illumination functionality as described below. Batteries must be rated for the environment in which they are installed, in all cases.</li> <li>Interior linear LED and fluorescent fixtures shall have 1,100 lumen (minimum) output, 90 minute battery. LED and fluorescent downlights shall have a 500 lumen (minimum) output, 90 minute battery. Otherwise fixture shall be provided with a full output inverter.</li> <li>Exterior emergency fixtures shall have an integral exterior rated (0° F) or remotely mounted 1,100 lumen (minimum) output, 90 minute battery.</li> <li>Test switches for emergency batteries/inverter shall be integral to the fixture/device served, unless otherwise noted.</li> <li>Emergency fixtures shall operate at least one lamp where multiple emergency fixtures are to be installed in that area, and shall operate at least two lamps where the loss of a single lamp would leave the space in total darkness during emergency operation.</li> <li>Emergency lighting design is based on fixtures lumen outputs as described above. Contractor shall verify all existing emergency batteries to ensure lumen outputs are as indicated and shall replace any batteries rated less outlined above.</li> <li>Emergency lighting units with dedicated emergency heads are spaced based on their unique output. If contractor selects an alternate fixture, they are responsible for ensuring an average of 1 foot candle is provided along the paths of egress for at least 90 minutes.</li> </ol>										

Lamp color temperature for new lamps shall match existing to remain lamps, and all lamp colors for different fixture types and sources shall be consistent throughout the space or area unless specifically noted otherwise. Contractor shall ensure that all interior and exterior lamps are the same color temperature.

Light fixtures indicated as dimmable shall be provide with all necessary components (driver, switch etc.) necessary to achieve 5% minimum dimming unless another specific minimum dimming level is noted.

5.

#### . . . ation Calcadula

Energy Code Section C406 Compliance:

This project is complying with section C406 for the energy code under the provisions of C406.2 (Reduced lighting power density). The remaining provisions are therefore not required and have not been included in this design.

Electrical System and Equipment: Energy Code Compliance

Compliance Method: Prescriptive Total Exterior Wattage Calculation per table C405.5.1(2) Specified vs Allowed: 248.0 vs 1,434.9

Base Site Allowance Zone 3 750 W

Building Entrances and Exits: Main Entries 30 W/LF for 6 LF of door width

Other Doors 20 W/LF for 24 LF of door width Entry Canopies 0.40 W/SF for - 62.3 SF

See Light Fixtures Schedule for fixture lamp type, quantity, driver, total fixture wattage and additional information.

Engineer Statement:

To the best of my belief, understanding, and knowledge; the design of electrical system of this building complies with NC State Building Code and the 2018 NC Energy Conservation Code.

Name: Richard D. Copeland, Jr. PE

Electrical System and Equipment: Energy Code Compliance

Compliance Method: Prescriptive

Total Interior Wattage Specified vs Allowed: **3,793 vs 5,919.9** See Exterior Lighting Summary for exterior lighting energy code calculations (if required) See Light Fixtures Schedule for interior fixture lamp type, quantity, driver, total fixture wattage and additional information.

Engineer Statement:

To the best of my belief, understanding, and knowledge; the design of electrical system of this building complies with the NC State Building Code and the 2018 NC Energy Conservation Code.

Name: Richard D. Copeland, Jr. PE



3684





# 1 Lighting Control System Data Riser Detail





Lighting Control System Description

1. The Lighting Control System shall consist of any of the following components: relay panels, Dataline wiring, front end equipment, switches, sensors, and remote override devices. All equipment to be UL certified to meet UL 916.

The lighting control system is a networked system that communicates via RS485. The system must be able to communicate with fully digital centralized relay panels, small distributed relay panels (Available with 0-10Volt dimming outputs), Fully distributed fixture level control by bus connected relays or dimmers, smart breaker panels, digital switches, photocells, various interfaces and operational software. The intent of the specification is to integrate all lighting control into one system. Distributed lighting control shall be provided using networked micro relay panels. Lighting control system shall include all hardware and software. Software shall be resident within the lighting control system. System shall provide local access to all programming functions at the master LCP. Remote access to all programming functions via dial up modem and through any standard computer workstation is permissible in addition to but shall not replace local access at the control panel. Where specified on plans, Lighting control system shall have the capability to be remotely controlled via the internet or building wide Ethernet LAN. Desktop computers are provided by others.

2. The relay panels shall be suitable for mounting in electrical closets and mounted in accordance with national and local electrical codes. The relays will control individual circuits or branch circuits as indicated in the Relay Panel Schedules. All power wiring will be identified at the relay by its controlling circuit breaker and branch letter.

3. Low voltage switches, occupancy sensors, and/or photocells shall be mounted in the spaces as indicated on the Reflected Ceiling Plans. Low voltage wiring from the switches and sensors to the relay panel shall be plenum rated as required by the National Electrical Code and local standards. All wiring shall be compatible with and per LCP manufacturer's specification.

4. Control electronics in the low voltage section shall be capable of driving 2 to 48 relays as specified on plans, control any individual or group of relays, provide individual relay overrides, provide a master override for each panel, store all programming in non-volatile memory, after power is restored return system to the correct state for time of day, provide programmable dual blink warn timers for each relay or zone of relays, and be able to control Normally Open Latching (NOL) or Normally Closed Latching (NCL) relays.

5. Each relay panel shall use UL Listed 30 Amp @ 277VAC Ballast and HID and 20 Amp Tungsten at 120 Vac. 347V Ballast and HID at 20 amps Latching Relay wit 18,000A SCCR at 277Vac. Relays shall be individually replaceable.

6. A Digital Time Clock (DTC) shall control and program the entire lighting control system and supply all time functions and accept modem (RS232) inputs. DTC shall be capable of up to 32 schedules. Each schedule shall consist of one set of On and Off times per day for each day of the week and for each of two holiday lists. The schedules shall apply to any individual relay or group of relays.

The DTC shall be capable of controlling digital devices at up to 127 addresses on a single bus and capable of interfacing digitally with other buses using manufacturer supplied interface cards.

The DTC shall accept control locally using built in button prompts and use of an 8 line 21-space display or from a computer or modem via an on-board RS 232 port. All commands shall be in plain English. The DTC shall be run from non-volatile memory so that all system programming is retained indefinitely and time of day is battery backed up.

DTC shall provide system wide timed overrides. Any relay, group or zone that is overridden ON, before or after hours, shall automatically be swept OFF by the DTC a maximum of 2 hours later.

7. Where specified on plans, system shall come with a pre-Installed modem that allows for remote programming from any location using a PC and free remote control software.

8. All low voltage switches shall be digital and communicate via RS 485. Contact closure style switches, except as specified for connection to the micro relay panel programmable contact closure inputs, shall not be acceptable. The programming for a digital switch shall reside in the switch itself, via double EPROM memory. Any digital switch button function shall be able to be changed locally (at the DTC or a PC) or remotely, via modem, Internet or Ethernet.

Each digital low voltage switch shall be a device that sits on the lighting control system bus. Digital switch shall connect to the system bus using the same cable and connection method required for relay panels. Each button shall be capable of being programmed for On only, Off only, Mix (Some on some off), On/Off (toggle), Raise (Dim up) and Lower (Dim down). Further each button shall be able to be enabled or disabled over the bus. An audible alarm shall be available on all switches that can be programmed to beep on button push or with warning light blinks.

9. Relay Panels will be capable of following standard features: Scheduled ON/OFF, Astronomical Time of Day, Flick Warning, True after hours Time Delay, Telephone overrides, Pulse ON/OFF, common area scenario. Panels will log every relay change by time and initiator for troubleshooting and operational reports.

10. System shall be capable of warning of an impending off sweep by flashing lights Off/On once or twice (programmable) by relay or by zone prior to the lights being turned off. The warning interval times between the flash and the final lights off signal shall be definable for each zone. Additionally an audible signal shall be able to be programmed that gives a mild note on the first flash and a more insistent signal on the second one. Occupant shall be able to override any scheduled Off sweep using local wall switches within the occupied space. Occupant override time shall be locally and remotely programmable and not exceed 2 hours.

11. All components shall be supplied as necessary to ensure the overall operation of the system. Components may include networking devices, dataline power supply, dataline interface portal, and system software.

12. Where specified on plans, a dry contact input interface card that provides 14 programmable dry contact closure inputs shall be provided. Use shielded cable to connect input devices to interface card on runs over 200ft.

13. Where specified on plans, a BACnet interface capability shall be provided that will allow the BAS vendor to interface to the lighting control system, offering individual relay status and control, as well as group control. Relay panel shall retain responsibility of local overrides per switch input.

14. Where specified on plans, a DMX interface capability shall be provided to allow a DMX system to interface with the lighting control panel

15. Where specified on plans, provide photocell package compatible with LCP. Photocells to be mounted in location indicated on the plans. Photocells used for exterior lights shall provide multiple trip points from 1 roof mounted unit. All trip points shall be able to be changed remotely via Internet or dial up modem. Photocells requiring manual trip point adjustment are not acceptable. Photocell used for interior lighting control shall have multiple settings such as start-point, mid-point, off-point, fade-up, fade-down, etc. All settings shall be remotely accessible and adjustable. Systems providing local adjustment only (at the photocell) are not acceptable. Photocells to be certified to comply with the current energy code covering this project at time of submittal of plans for building permit.

16. Manufacturer shall provide a factory authorized technician to confirm proper installation and operation of all system components.

17. Manufacturer shall provide factory authorized application engineer to train owner personnel in the operation and programming of the lighting control system.

18. Manufacturer shall provide system documentation including: a) System 1-line showing all panels, number and type of switches and sensors, dataline, programmable system switches, front end material, b) Drawings for each panel showing hardware configuration and numbering, c) Panel wiring schedules, and d) Typical wiring diagrams for each component. Provide a point-to-point wiring diagram for the entire lighting control system. Diagram must indicate exact mounting location of each system device. Diagram shall indicate the loads controlled by each relay and the identification number for that relay, placement of switches and location of photocell. Original to be given to owner, copies placed inside the door of each LCP.

19. Lighting schedule shall be determined by owner and be programmed by the system installer and shall comply with section 2015 International Energy Conservation Code.



OF - 13



- All electrical boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. All electrical boxes mounted in rated ceilings/horizontal assemblies shall comply with all requirements of the 2018 NCSBC, section 714.4.2. Devices shown in rated assemblies shall be flush with conduit concealed, unless otherwise indicated. Provide rated boxes, horizontal separation, putty pads, etc. as required for proper installation. Low voltage electrical devices mounted in rated assemblies shall be protected in accordance with the sections listed above as well.
- The lay-in ceiling is 10'-10" AFF throughout the space and 20'-1/2" AFF in the apparatus bay. Therefore, fire alarm system has been designed based on a maximum ceiling height of 20'-0" AFF in the lay-in areas and 30'-0" in the apparatus bay.

# Plan Notes:

- 1. Fire alarm control panel. See fire alarm riser diagram.
- 2. Fire alarm power extender. See fire alarm riser diagram.
- 3. Provide flush fire alarm annunciator and connect as required. Maintain rating around box as required. Confirm location of annunciator with Fire Marshal prior to rough-in. 4. Provide Knox box at location acceptable to the Fire Marshall. Confirm exact location prior to rough- in.
- 5. Provide tamper and flow switches for sprinkler system. Connect tamper and flow switches to fire alarm control panel as required. Confirm quantities, locations, and requirements with sprinkler contractor prior to rough-in.
- 6. Connect tamper switches in hot box as required. Provide low voltage surge suppression for circuit.
- 7. Junction box for sprinkler bell connection. Bell furnished by sprinkler contractor, installed and connected by electrical contractor. Connect to "120/1" circuit through main riser flow switch to be energized upon a water flow in the sprinkler system. Coordinate with sprinkler contractor.
- 8. Provide duct detector in return air duct and remote led indicator in ceiling grid. Connect as required. Coordinate with mechanical.
- 9. Provide duct detector in return air duct and remote led indicator at structure. Connect as required. Coordinate with mechanical. 10. Provide relay(s) to HVLS fan to shut down upon activation of fire alarm.

# Fire Alarm Synchronization Note:

All fire alarm devices in common sight lines must be visually synchronized and all audible fire alarm devices must be audibly synchronized for a consistent sound throughout. All cost associated with synchronization should be identified and included in any pricing or bids.

#### Fire Alarm Scope Note:

The scope of fire alarm work for this project is to add a new fire alarm system, notification and initiating devices as indicated on plan to provide code required coverage for the space. The system will utilize horn/strobe notification.



BOBBITT A&E 600 Germantow Raleigh, North Caro IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	

**STATION** 

FIRE

CAROLINA

NORTH

LILLINGTON 2873 NC 210 NOR LILLINGTON, NOR

09/19/2024

OF - 13

Wall Ratings and Types Legend	24-0013
See architectural sheets for more information on ratings and additional rated constructions including structure where applicable. Protect all rated constructions as required.	FLOOR PLAN - FIRE ALARM
New Wall being Constructed	FA1.1

One Hour Fire Barrier

#### Addressable Fire Alarm Specifications

#### General:

The electrical contractor shall provide all specified and necessary material and labor required for a complete and operational Fire Alarm system in accordance with the code, specifications and the contract documents.

All work shall be in accordance with NFPA 72, all manufacturers requirements and recommendations, all city & local and state requirements as well as other applicable requirements or guidelines.

Definitions: "provide" shall mean furnish and install; "furnish" shall mean to supply for installation or use by others; "install" shall mean installation of items furnished by others.

The drawings are diagrammatic and are not intended to show every detail and/or exact locations. Installation shall be adjusted to accommodate interferences encountered in field.

See Fire Alarm System Matrix for required programming/control sequence.

Contractor shall provide and submit shop drawings for approval as required.

#### Equipment:

Equipment shall be provided as specified in legend and in this section or equal.

1. The Fire Alarm Control Panel (FACP) shall be provided with modules necessary to accomplish the functions specified herein. The panel shall have sealed, maintenance free, lead-calcium battery back up with capacity to power all functions and devices for standby and alarm per NFPA 72 section 4.4.1.5.3. Battery calculations are to be provided as part of submittal data. The panel shall be surface or semi-recessed. The panel shall have addressable detection loops as indicated and/or required plus at minimum 20% spare capacity on each loop. Provide lightning arrestors and transient suppression where recommend by manufacturer. Install lightning arrestors at circuit breaker in panel serving fire alarm panel. Provide auxiliary relays, switches, and modules as required to perform indicated functions. Base system shall have at least 198 intelligent device capacity.

2. Digital Communicator shall be a listed cellular dialer system (with integral 24 hour battery backup) that complies with 2013 NFPA 72, Section 26.6.3 and provides for a second method of communication where required by the AHJ. Note that 2013 NFPA 72 does not permit telephone line(s) as the sole means of communication. If another approved communication method is elected, the fire alarm contractor shall coordinate installation of all necessary communication equipment and provide 24 hour battery backup for all such equipment as part of the fire alarm scope.

3. Remote Annunciator shall be backlit, 80 character minimum, LCD annunciator located as indicated on the plans with the understand that final location shall be approved by the fire marshal.

4. The remote NAC Power Supplies shall be have built-in synchronization for all strobe lights. Each Power Supply shall have battery back-up sized per NFPA 72.

5. Manual Pull Stations shall be addressable, double action devices, with terminal strip. Glass rods are prohibited.

6. Space Smoke Detectors shall be addressable photoelectric type detector. Detectors shall be listed to U.L. standard UL268 and shall be compatible with the control equipment to which they are connected. The detectors shall obtain their power from the fire alarm supervised detection loop. Removal of the detector from its base shall cause a trouble signal to be generated at the control panel indicating the specific location of the issue. Activating the reset switch on the control panel shall reset the detector. The detectors shall have an LED indicator to show the normal and alarm state.

7. Automatic Heat Detectors shall be addressable combination fixed temperature and rate-of-rise type.

8. Audio/Visual devices shall be combination electronic horn and field selectable candela strobe light set as indicated on plans. The device shall comply with the requirements of the American with Disabilities Act.

9. Visual Only devices shall be strobe light with field selectable candela strobe light set as indicated on plans. The device shall comply with the requirements of the American with Disabilities Act.

10. Water flow, Tamper, and, Pressure Switches shall be furnished and installed by the sprinkler contractor and connected by the electrical contractor and monitored by the fire alarm control panel. Monitoring shall be accomplished by use of monitor modules.

11. Duct Mounted Smoke Detectors shall be an addressable photoelectric smoke detector unless otherwise noted. Removal of the detector head shall cause a trouble signal to be generated at the fire alarm control panel indicating the specific detector in trouble. The detector shall obtain its operating power from the supervised detection loop. An LED indicator shall be visible through the cover that indicates the alarm state of the detector. Where indicated furnish a remote indicator/test switch. The duct detector shall be supplied complete with proper size duct sampling tubes and any other required accessories.

12. Control Module shall be located as indicated on the plans and/or as required for control functions and notification applications.

13. Door Holders shall be flush wall mounted, as indicated on the plans, and compatible with control system.

14. Relay Module shall be located as indicated on the plans and/or as required for control functions, IE duct detectors.

#### MATERIALS:

All materials and equipment shall be new and of the highest quality in the class specified. Where manufacture names are mentioned they are given as a reference to the quality of component required. All materials shall bear UL label or equivalent where applicable. Other makes may be used if equal and the equipment meets all of the requirements of these specifications. All items in the equipment section of these specifications may not be necessary in this system, refer to the drawings for locations and equipment to be used.

Conduit, conductors, boxes, hangers, supports, etc. shall be provided as required.

System description - The fire detection and alarm system shall be the addressable type, with each initiating device individually addressed and reporting to the fire alarm control panel (FACP).

The addressable fire alarm system shall be connected, programmed, and tested only by the manufacturer or by an authorized distributor who stocks a full compliment of spare parts for the system. Technicians performing this service shall be trained and individually certified by the manufacturer for the model of system being installed.

The complete programming for the addressable fire alarm system shall be permanently stored on removable media and archived by the manufacturer or authorized distributor. A backup copy of the program on removable media shall be provided to the owner when the system is commissioned.

The manufacturer or authorized distributor shall maintain software version records on the system installed. The system software shall be upgraded free of charge if the manufacturer releases a new version of the software during the warranty period.

Each signaling line circuit (addressable loop controller) shall have a minimum of 20% spare capacity for future use.

The connections between individual addressable modules and their initiating devices must be supervised.

The system shall have multiple access levels, which permit the owner's authorized personnel to make temporary changes in the system alarm response matrix, without actually changing the system programming. This must include the ability to override selected alarm inputs or system responses to alarms, without affecting the remaining portions of the system.

The manufacturer or authorized distributor must test all software logic functions for the system and provide a written test report of checklist. This documentation must include a system function matrix, which gives the fire alarm control panel response for each initiating device input.

The system shall be nominal 24VDC; non coded, and supervised (including control circuits). All equipment supplied must be listed for the purpose for which it is used, and installed in accordance with any instructions from the manufacturer and/or included in its listing.

The FACP power supply shall have a continuous rating adequate to power all zones and functions in full alarm continuously.

The FACP must have an Alarm Silence switch and be equipped with the subsequent alarm (alarm resound) feature.

The system includes air handling unit shutdown. Silencing the alarm (without resetting) shall not reverse the shutdown. A supervised "AHU Shutdown Defeat" switch must be provided in the FACP, with its "Normal" position indicated.

Systems are to be provided with a separate and independent source of emergency power. Switching to emergency power during alarm shall not cause signal dropout. Batteries must meet the appropriate NFPA capacity requirements.

The system shall be electrically supervised for open or ground fault conditions in detection, alarm and control circuits. Removal of any detection device, alarm appliance, relay, module or standby battery connection shall also result in a trouble signal. Fire alarm signal shall override trouble signals, but any pre-alarm trouble signal shall reappear when the panel is reset.

Execution:

All work shall be installed as required per NFPA 72, manufacturers requirements and recommendations, city & local and state requirements as well as other applicable requirements. All connections at the FACP must be made by the manufacturer's authorized, factory trained representative (rather than by the electrical contractor).

Provide and install the system in accordance with the plans and specifications, all applicable codes and the manufacturer's recommendations. Use conduit where specified/ required. Notification Appliance circuit conductors shall be new, copper type THHN or XHHW and shall be number 14 AWG stranded minimum.

Permanent wire markers shall be used to identify all connections and terminations for each circuit. Identification for all splices shall indicate which conductor leads to the control panel.

Wiring must be in metal conduit (3/4"minimum diameter), or surface metal raceway. Initiating circuit conductors must be new, solid copper, type THHN/THWN, 18 AWG minimum shielded, except that wiring between the FACP and any Remote Annunciator may optionally be listed multi-conductor cable with 18 AWG solid copper conductors. All junction boxes shall be sprayed red and be permanently labeled "Fire Alarm". Wiring color code shall be maintained throughout the installation and labelled on FACP/PE. Provide terminal blocks in all junction boxes where connections are made.

Detection or alarm circuits shall not be installed in raceways containing power or line voltage control wiring. Within the FACP, any AC control wiring must be properly separated from other circuits and the enclosure must have an appropriate warning label to alert service personnel to the hazard.

Location of devices and equipment: All devices shall be located as detailed or indicated. In general devices shall be centered in spaces or above other outlets.

Install lightning arrestor at circuit breaker in panel serving fire alarm panel.

number.

Provide framed operating instructions mounted adjacent to the fire alarm control panel.

detectors at maximum of twelve inches from ceiling. Testing shall include all tests noted by NFPA, for electrical systems, and testing/ certification by the fire alarm system supplier. Test

results shall be provided to the owner.

Certification for system shall be provided from installer/ supplier of the equipment furnished. Provide instruction manuals and instruction to owner's personnel.

Upon completion of the system testing shall be performed by the contractor and the manufacturer's authorized representative. The test shall include testing of every alarm initiating device for proper response and device indication, every alarm signaling device for effectiveness and all other functions such as HVAC shut down, door release, elevator recall, control of smoke doors/dampers, and pressurization fans. All supervised circuits must also be tested to verify proper supervision (control circuits and remote annunciation lines are among those required to be supervised). The contractor shall submit the following test documentation:

- 1. NFPA "Fire Alarm System Certification and Description" Written verification that the fire alarm 100% system test was performed
- 3. Measured sensitivity of each smoke detector

The system will be inspected and functionally tested by the AHJ. Equipment intended for open area protection or releasing device service may be subjected to simulated or actual test fires, in accordance with ANSI/UL guidelines, to verify proper response.

After successful completion of AHJ inspections and tests and final acceptance, the warranty period begins. In the event of malfunctions or excessive nuisance alarms, the contractor must take prompt corrective action. The engineer may require a repeat of the contractor's 100% system test. Continued improper performance during the warranty period shall be cause to require the Contractor to replace the system and/or its components.

#### System documentation, training and maintenance:

1. Full as-built wiring and conduit layouts, including wire color code, and addresses, and showing all interconnections in the system.

		Fire Ala	rm Legend (NFP	A 170 Symbols	)
Symbol (New)	Device Common Name	Description/Notes	Model	Model	N
FACP	Fire Alarm Control Panel	24V, addressable system, with 318-point SLC loop	Fire-Lite #MS9200UDLS	Notifier #N16e	G
PE	Fire Alarm Power Extender	4 notification appliance circuit outputs with total of 8.0 amp full load output (3.0 amp max per circuit).	Fire-Lite #FCPS-24FS8	Notifier #FCPS-24S8	G
FAAN	Fire Alarm Annunciator Panel	-	Fire-Lite #LCD-80F	Notifier #FDU-80	G
DC	Internal Digital Communicator	Mount inside FACP enclosure or provide remote enclosure (Notifier #ABS-8RB) as required.	N/A	Notifier #UDACT	т
F	Addressable Manual Pull Station	Mount at 44" aff to center of box.	Fire-Lite #BG-12LX	Notifier #NBG-12LX	G
F WP	Manual Pull Station	Rated for outdoor use with backbox. Mount at 44" aff to center of box. Connect via monitor module located within conditioned space.	Fire-Lite #BG-12LOB	Notifier #NBG-12LOB	
<b>(2</b> )	Fire Alarm Smoke Detector	-	Fire-Lite #SD355	Notifier #FSP-851	G
<b>(2</b> ) _{co}	Fire Alarm Smoke Detector/Carbon Monoxide Detector Combination Device	Dual purpose fully addressable smoke detector and carbon monoxide device.	System Sensor #i4 Series	System Sensor #i4 Series	s
$\langle \bullet \rangle$	Fire Alarm Heat Detector	Fixed temperature only for elevator shunt trip activation, fixed temp. and rate of rise for all other applications not noted otherwise.	Fire-Lite #H355 series	Notifier #FST-851 SERIES	
$\langle \mathbf{z} \rangle$	Duct Smoke Detector with Remote Led Indicator	-	Fire-Lite #D350PL W/ Fire-Lite #RTS451	Notifier #FSD-751PL W/ Notifier #RTS451	G
*	Remote Led Indicator	-			
FS	Flow Switch	-	Actual device provided by sprinkler contractor. provide monitor module.	Actual device provided by sprinkler contractor. provide monitor module.	A p
TS	Tamper Switch	-	Actual device provided by sprinkler contractor. provide monitor module.	Actual device provided by sprinkler contractor. provide monitor module.	А р
R	Relay Module	-	Fire-Lite #CRF-300	Notifier #FRM-1	A
PR	Pam Relay Module	-	Fire-Lite #PAM-1	Notifier #PAM-1	N
AIM	Monitor Module	-	Fire-Lite #MMF-300	Notifier #FMM-1	A
ACM	Control Module	-	Fire-Lite #MMF-300	Notifier #FCM-1	A
() xx	Ceiling Mounted Fire Alarm Visual Strobe Only - White	Center device in ceiling tile, device shall be U.L. listed for use in ceilings. Connect as required. Strobe as indicated on plans.	System Sensor Spectralert #SCWL	System Sensor Spectralert #SCWL	s
	Ceiling Mounted Fire Alarm Horn/Strobe - White	Center device in ceiling tile, device shall be U.L. listed for use in ceilings. Connect as required. Strobe as indicated on plans.	System Sensor Spectralert #PC2WL	System Sensor Spectralert #PC2WL	s
					_

# Fire Alarm Symbols Linetype Legend

		New device or relocated existing device
		Existing device to remain
		Existing device to be demolished or relocated
	— – NAC1— – NAC1—	Existing NAC circuitry to remain. Number on line indicates circuit in panel.
	——————————————————————————————————————	Existing SLC circuitry to remain. Number on line indicates circuit in panel.
	— SPK — SPK —	New SPEAKER WIRE circuit. Number on line indicates circuit in panel.
-	— NAC1 — NAC1 —	New NAC circuit. Number on line indicates circuit in panel.
	—— SLC1 —— SLC1 ——	New SLC circuit. Number on line indicates circuit in panel.
	EOL	End of line resistor

* New devices shall match existing, verify in field. Engineer has attempted to document existing model numbers for convenience of contractors.



The contractor shall provide the engineer with electronic copies of the following, to be forwarded to the owner:

Provide an engraved or other permanent type marker on each device installed indicating the device number and addressable loop

Smoke detectors shall not be located closer than three feet to an air conditioning supply or return. Locate wall mounted smoke

none





Model (FCI)

AOM-2RF

AOM-2SF

Notifier #PAM-1



Ľ C C  $\mathbf{O}$  $\mathbf{O}$  $\sim$ 

О

	24-0013					
	FIRE ALARM DETAILS					
	FA2.1					
	OF - 13					
ated when plotted at 24" x 36"						

These drawings will be at the scale indic

09/19/2024

#### Fire Alarm Notes:

- 1. See legend for device model numbers 2. Contractor shall ensure that this installation and design of the fire alarm system complies with all requirements of the 2018 NC Fire Code chapter 9, 2018 NCSBC chapter 9, 2013 NFPA 72, and NFPA 70. Contractor shall review design drawings prior to bid/ rough-in and shall notify engineer immediately of any items they feel may be necessary, omitted, insufficient, etc. Contractor shall be responsible to provide any additional required items necessary for complete and code compliant system prior to beginning work.
- 3. Contractor shall verify that the existing to remain system is connected to a UL approved central monitoring station as required by the applicable codes at the time of connection. If an approved connection does not exist, the contractor shall provide a listed cellular dialer system (with integral 24 hour battery backup) that complies with 2013 NFPA 72, section 26.6.3 and provide for a second method of communication where required by the AHJ. 2013 NFPA 72 does not permit POTs telephone line(s) as the sole means of communication. If another communication method is elected and approved by the AHJ, the fire alarm contractor shall coordinate installation of all required communication equipment and 24 hour battery backup as part of the fire alarm scope.
- 4. A decibel level of 15 dBA above average ambient (2013 NFPA 72, Table A.18.4.3) shall be maintained in all occupiable areas measured 5' above the floor using the A-weighted scale. 90 dBA shall be maintained in all mechanical equipment rooms per the 2018 NC Fire Code, section 907.5.2.1.1. The total sound pressure level produced by combining ambient and notification levels shall not exceed 110 dBA anywhere. Devices have been shown to provide the general components necessary to achieve such levels. However, due to site specific attributes including wall construction and sound attenuation, it is the responsibility of the contractor to adjust the level of audible
- devices as needed and provide additional audible devices where required to meet these audibility requirements. 5. The contractor shall prepare fire alarm shop drawings including a floor plan(s) showing device and circuit layouts with a detailed riser diagram showing each device and all circuitry. Fire alarm shop drawings shall include battery and voltage drop calculations as required by the 2018 NC Fire Code, section 907. Battery calculations shall show battery requirements for the entire system (including any existing loads). If battery calculations show the existing or as designed system as insufficient, contractor shall provide a separately line item price to add a new 8 amp, 4 circuit power extender and connect the required devices to it. Contractor shall submit a plan indicating device layout, riser diagram, battery & voltage drop calculations with device submittal data to engineer for review prior to beginning any work or submitting to the AHJ.
- 6. Contractor shall provide all documentation and testing required by the local Fire Marshal and state and local codes, including but not limited to: 1. Acceptance tests per 2018 NC Fire Code, section 907.7. 2. Required inspections, testing and maintenance required by the 2018 NC Fire Code.
- 3. Instructions per 2018 NC Fire Code, section 907.7.3 and record of completion per 2018 NC Fire Code, section 907.7.2. 7. The contractor shall submit fire alarm shop drawings to the AHJ fire prevention office prior to beginning work. No inspections can be scheduled prior to approval of the shop drawings from the Fire Marshal.
- 8. All audible fire alarm devices must be audibly synchronized and have a consistent audible sound throughout the building. All fire alarm devices in common sight lines must be visually synchronized. Device shall synchronization as required per
- ADA. Replace devices and/or provide synchronization modules in booster/NAC panels as necessary to achieve synchronization throughout. Existing devices and booster panels shown to remain on these drawings should be considered existing to remain only contractor verifies their ability to synchronize on site, and should be considered new otherwise. All cost related to synchronization should be identified and included in bid. 9. Interlock fire alarm system with security system such that upon activation of the fire alarm system, security system unlocks
- Security system shall fail safe open upon power loss. 10. All fire alarm system conductors shall be run in 3/4" EMT conduit, in open ceiling areas, unless noted otherwise.
- Provide all junction boxes, hangers, fittings, supports etc. as required. JB cover for all fire alarm junction boxes shall be labeled and painted red. Circuits can be combined in common conduit where convenient or as necessary. 11. Pull stations are only provided at required exits.
- 12. Initiating device circuits shall be loaded to no more than 75% of capacity.
- 13. Audio/visual circuits shall be loaded no more than 75% of capacity.
- 14. Provide power extenders as required for notification appliance circuit devices (existing and new). 15. Riser diagram devices are generic and do not represent exact/actual device quantities required for this project. See plans for total quantities.
- 16. Provide labeling for the entire fire alarm system and device addresses. Provide panel and circuit numbers on a zone map adjacent to the FACP or in location required by the Fire Marshal.
- 17. The method of functional testing to ensure proper operation of smoke detectors shall be determined by AHJ. 18. Devices shall match the color specified or match the color of any existing devices to remain or be reused in the area
- of work, if applicable, unless otherwise noted.

FIRE ALARM SYSTEM															
					ANON ALL	ALARM	ARMON ARMON	SUPER SUPER	US PROPERTY OF THE PROPERTY OF	R TSOR TROP	ROLLE CHORE	LEAN CHARLE	AR A	OP 10 10 10 10 10 10 10 10 10 10 10 10 10	A S S S S S
SYSTEM INPUTS												2 AM	RAM'S	2 AM	
1	FIRE ALARM SYSTEM AC POWER FAILURE		D					0			J	n			
2															
3															
4	GROUND FAULT														
5	NOTIFICATION APPLIANCE CIRCUIT SHORT														
6	BUILDING MANUAL PULL STATIONS	•													
7	CORRIDOR SMOKE DETECTORS														
8	AREA SMOKE DETECTORS														
9	HVAC AIR DUCT SMOKE DETECTORS														
10	SPRINKLER TAMPER SWITCH														
11	SPRINKLER WATER FLOW IN BUILDING														
12	SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT														
		Δ	B	C	D	F	F	G	н			ĸ		М	Ν

- doors as required by 2018 NCSBC, section 1008.1.9.8, note #4. Coordinate exact requirements with security contractor.

#### General Notes and Requirements:

- 1. The contractor is responsible to comply with all requirements of the 2018 NCSBC and accessibility code that are applicable to this project regardless of whether all details are indicated on plans.
- 2. Pull stations shall comply with all requirements of 2018 NCSBC, chapter 11 accessibility code
- All boxes mounted in rated walls shall comply with all requirements of the 2018 NCSBC, section 714.3.2. Unless noted otherwise, devices shown in rated walls shall be flush with conduit concealed in wall. Provide horizontal separation, putty pads, rated boxes etc. as required for installation
- 4. See architectural ceiling plans for ceiling types. Where new inaccessible gyp. ceilings are being installed the contractor shall not mount any junction boxes, conduit bodies or other equipment or fittings requiring access above the new inaccessible ceiling, and shall relocate all to adjacent areas where accessible area. No access panels in the hard ceiling are allowed without approval. 5. Contractor shall not put an access panel in hard ceiling for any reason. Contractor shall install
- appropriate junction boxes, etc above the ceiling in areas that can be accessed by the removal of lay-in grid. 6. The word "provide" shall mean to furnish and install the item or equipment and make the final
- connection necessary. 7. All mounting heights are given to the bottom of the device unless otherwise noted.
- 8. Do not scale these drawings. The contractor shall refer to the architectural plans for floor plan dimensions. The location of all wall mounted devices, including mounting heights, shall be field verified with the architect prior to installation. Coordinate locations of all light fixtures with the reflected ceiling plans.
- 9. The contractor shall coordinate any and all work with other trades involved in the project, prior to installation of fire alarm equipment, so as to avoid conflicts during construction and to allow for optimum maintenance and working space.
- 10. Conduits and cables shall be concealed wherever possible by either routing above ceiling, in interstitial spaces or running exposed in unfinished spaces where feasible/ allowed. Conduits may be run exposed in mechanical areas or other areas not subject to public view where approved by the owner. Wherever conduits or cables are exposed, conduits and cables shall be run parallel or perpendicular to structural elements and shall be run and bundled in groups, and the installation shall be neat and orderly. Even when exposed, conduits and cables shall be routed to minimize view from personnel. Seal all penetrations air tight around conduits passing through walls or floors
- using appropriate penetration protection when passing through or into rated assemblies. Boxes, conduit, and wiring shall not be recessed into or penetrate structural columns. They shall be surface mounted to column and/or recessed in stud wall where possible. Coordinate with architect/tenant.
- Junction box covers shall be permanently labeled and conduit shall be labeled every 10'. Contractor shall include cost of painting all exposed conduits subject to public view. The contractor shall patch any ceiling, wall, or floor openings and penetrations resulting from 13
- demolition or new work in existing areas.
- 14. Contractor is responsible for properly disposing of all waste materials, demo materials and other trash. This includes but is not limited to proper disposal recyclable materials.
- 15. Any necessary core drills shall be coordinated and located with the affected tenant spaces above or below as well as the owner/ building manager, prior to beginning work. Schedule core drills to address security concerns, minimize interruption, etc. 16. Contractor shall verify all areas that are used as a return plenum with mechanical contractor and
- provide plenum rated cable for all cables not run in metal conduit. This includes all fire alarm or control wiring above ceiling.
- 17. Contractor shall meet all applicable seismic requirements.
- 18. Equipment connected to or associated with fire alarm system shall be listed and labeled by a third party acceptable to the authority having jurisdiction.



