# South Cary Water Reclamation Facility — Maintenance Facility with Solar

Apex

4900 W Lake Rd, Apex, NC 27539

# **VICINITY MAP**

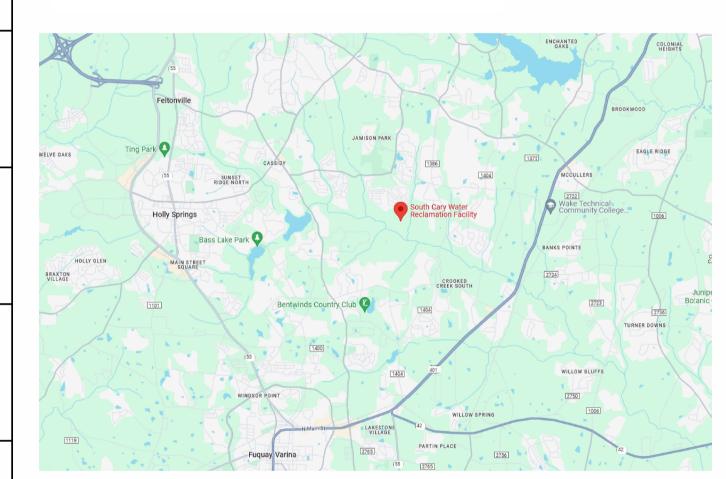


IMAGE REPRINTED FROM GOOGLE MAPS

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### SOLAR PV CONSULTANT

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POWER RISER PANEL SCHEDULE E201 PV SYSTEM DETAILS AND DIAGRAM



CONSULTANT LOGO

ROJECT INFORMATION



DKA JOB NUMBER

2403 REVISIONS

These drawings are the property of Davis Kane Architects, P.A. They may not be reused for any

Drawn By Plot Date: 1/10/2025 12:32:27 PM

DATE ISSUED

**Bid Documents** 1/13/2025

SHEET TITLE **COVER SHEET** 

G001

**BID DOCUMENTS** 

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-	_			_ PHONE # <u>\</u>	710) 402 0070		CONDITION	□ 1	□ 2	
E-MAIL: john.holloway@carync.				_		I-2 (	CONDITION	☐ 1	□ 2	
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CONTACT: Robert S	Stavanson APCL	HITECT						☐ PARKING G	GARAGE   REPAIR	R GARAGE
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DESIGNER FIRM		NAME	LIC. #	PHONE #	<u>EMAIL</u>	$\neg$		_		
ARCHITECTURAL Davis Kane	Architects	Robert Stevenso	on 6214	(919) 833-3	737 rstevenson@daviskane.com	ACCES	SOBY OCCU	DANCY CLASSIE	FICATION(S):B-Busi	ness
CIVIL CLH Design		Keith Downing	1047	(919) 319-6	716 kdowning@clhdesignpa.com					
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	EG Engineers	Bradley Felts	25036	(919) 571-1	111 brad.w.felts@imegcorp.com		OCCUPANCY			ATION:  N/A
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CONSTRUCTION TYPE: (CHECK ALL THAT APPLY)  SPRINKLERS: STANDPIPES: PRIMARY FIRE DISTRICT: FLOOR HAZARD AREA: SPECIAL INSPECTIONS REQURIED: GROSS BUILDING AREA: FLOOR 4TH FLOOR 3RD FLOOR 2ND FLOOR 1ST FLOOR	C DATA	sed:	III-A   III-B   NFPA 13   CLASS - II   NEW (SQ FT)   -	☐ III ☐ IV ☐ NFPA 13R ☐ CLASS - III	U-A V-B NFPA 13D DRY	FIR  STRUCCOLUM BEARII EXT EXT EXT INTE NONBE EXT EXT EXT EXT	E PRO BUILDING TURAL FRAN MNS, GIRDERS NG WALLS ERIOR NORTH ERIOR SOUTH ERIOR WEST ERIOR WALL ERIOR NORTH ERIOR SOUTH ERIOR SOUTH ERIOR SOUTH ERIOR EAST ERIOR WEST ERIOR SOUTH ERIOR EAST ERIOR SOUTH ERIOR EAST ERIOR SOUTH	TECTION TECTIO	## A0'-0"    2	27'-4"   1
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CONSTRUCTION TYPE: (CHECK ALL THAT APPLY)  SPRINKLERS: STANDPIPES: PRIMARY FIRE DISTRICT: FLOOR HAZARD AREA: SPECIAL INSPECTIONS REQURIED: GROSS BUILDING AREA: FLOOR 4TH FLOOR 3RD FLOOR 2ND FLOOR 1ST FLOOR	Fropo	sed:	III-A   III-B   NFPA 13   CLASS - II   NEW (SQ FT)   -	☐ III ☐ IV ☐ NFPA 13R ☐ CLASS - III	U-A V-B NFPA 13D DRY	FIR  STRUCT COLUM BEARII EXT EXT EXT INTE NONBE EXT EXT EXT EXT INTERI FLOOF SUPPO FLOOF SUPPO ROOF	E PRO BUILDING TURAL FRAMINS, GIRDERS NG WALLS ERIOR NORTH ERIOR EAST ERIOR WEST ERIOR WEST ERIOR WEST ERIOR WEST ERIOR SOUTH ERIOR EAST ERIOR WEST ERIOR BEAST ERIOR SOUTH OR WALLS AS CONSTRUCT OR TING BEAM CONSTRUCT OR SUPPORT	N FEET N STORIES Perence if the "Show TECTION ELEMENT  ME (INCLUDING S, TRUSSES)  H  LS AND PARTITIONS H  AND PARTITIONS IS AND JOISTS) SEMBLY TING FLOORS IS AND JOISTS) EMBLY EMBLY	#0'-0"    2	27'-4"   1   1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1
CONSTRUCTION TYPE: (CHECK ALL THAT APPLY)  SPRINKLERS: STANDPIPES: PRIMARY FIRE DISTRICT: FLOOR HAZARD AREA: SPECIAL INSPECTIONS REQURIED: GROSS BUILDING AREA: FLOOR 4TH FLOOR 3RD FLOOR 1ST FLOOR	Fropo	sed:	III-A   III-B   NFPA 13   CLASS - II   NEW (SQ FT)   -	☐ III ☐ IV ☐ NFPA 13R ☐ CLASS - III	U-A V-B NFPA 13D DRY	FIR  STRUCT COLUM BEARII EXT EXT EXT INTE NONBE EXT EXT EXT EXT INTERI FLOOF SUPPO FLOOF SUPPO ROOF	E PRO BUILDING  TURAL FRAMINS, GIRDERS NG WALLS ERIOR NORTH ERIOR SOUTH ERIOR WEST ERIOR WEST ERIOR WEST ERIOR WEST ERIOR SOUTH ERIOR EAST ERIOR EAST ERIOR EAST ERIOR EAST ERIOR BEAM CONSTRUCT OR WALLS AS CONSTRUCT OR SUPPORT CONSTRUCT OR SUPPORT OR SUPPORT CONSTRUCT OR SUPPORT	N FEET N STORIES Perence if the "Show TECTION ELEMENT  ME (INCLUDING S, TRUSSES)  H  LS AND PARTITIONS H  AND PARTITIONS IS AND JOISTS) SEMBLY TING FLOORS IS AND JOISTS) EMBLY EMBLY	#0'-0"    2	27'-4"   1   1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1
CONSTRUCTION TYPE: CHECK ALL THAT APPLY)  SPRINKLERS: STANDPIPES: PRIMARY FIRE DISTRICT: FLOOR HAZARD AREA: SPECIAL INSPECTIONS REQURIED: GROSS BUILDING AREA: FLOOR STH FLOOR SRD FLOOR ST FLOOR	Fropo	sed:	III-A   III-B   NFPA 13   CLASS - II   NEW (SQ FT)   -	☐ III ☐ IV ☐ NFPA 13R ☐ CLASS - III	U-A V-B NFPA 13D DRY	FIR  STRUCCOLUM BEARII EXT EXT EXT INTE NONBE EXT EXT EXT EXT INTERI FLOOR SUPPO FLOOR COLUM ROOF SUPPO ROOF COLUM	E PRO BUILDING TURAL FRAMINS, GIRDERS NG WALLS ERIOR NORTH ERIOR EAST ERIOR WEST ERIOR WEST ERIOR WEST ERIOR WEST ERIOR SOUTH ERIOR EAST ERIOR WEST ERIOR BEAST ERIOR SOUTH OR WALLS AS CONSTRUCT OR TING BEAM CONSTRUCT OR SUPPORT	TECTION  TEC	#0'-0"    2	27'-4"   1   1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1
CONSTRUCTION TYPE: CHECK ALL THAT APPLY)  SPRINKLERS: STANDPIPES: PRIMARY FIRE DISTRICT: FLOOR HAZARD AREA: SPECIAL INSPECTIONS REQURIED: GROSS BUILDING AREA: FLOOR STH FLOOR SRD FLOOR END FLOOR	Fropo	sed:	III-A   III-B   NFPA 13   CLASS - II   NEW (SQ FT)   -	☐ III ☐ IV ☐ NFPA 13R ☐ CLASS - III	U-A V-B NFPA 13D DRY	FIR  STRUCCOLUM BEARII EXT EXT EXT INTE NONBE EXT EXT EXT EXT INTERI FLOOR SUPPO FLOOR COLUM ROOF SUPPO ROOF COLUM SHAFT	E PRO  BUILDING  TURAL FRAMINS, GIRDERS  NG WALLS  ERIOR NORTH  ERIOR EAST  ERIOR WEST  ERIOR NORTH  ERIOR SOUTH  ERIOR EAST  ERIOR WEST  ERIOR WEST  ERIOR WEST  ERIOR BEAST  ERIOR SOUTH  ERIOR EAST  ERIOR BEAST  ERIOR SOUTH  CONSTRUCT  OR WALLS AS  INS SUPPOR  CONSTRUCTION  CONSTR	TECTION  TEC	#0'-0"    2	27'-4"   1   1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1     1

	OWAB	BLE ARE	A							
PRIMARY	Y OCCUPAN	CY CLASSIFICA	TION(S):							
ASSEMB	BLY:	☐ A-1		☐ A-2		☐ A-3		☐ A	-4	☐ A-5
BUSINES	SS:									
EDUCAT	IONAL:									
FACTOR	Y:	☐ F-1 MODER	ATE	☐ F-2 LOV	V					
HAZARD	OUS:	☐ H-1 DETON	ATE	☐ H-2 DEF	FLAGATE	☐ H-3	COMBUST	□н	I-4 HEALTH	☐ H-5 HF
INSTITUT	TIONAL:	☐ I-1		☐ I-2		☐ I-3		-4	4	
I-1 CO	ONDITION	□ 1		□ 2						
I-2 CO	ONDITION	□ 1		□ 2						
I-3 CO	ONDITION	□ 1		□ 2		□ 3		□ 4		□ 5
MERCAN	NTILE:									
RESIDEN	NTIAL:	☐ R-1		☐ R-2		☐ R-3		☐ R	2-4	
STORAG	BE:	S-1 MODER	ATE	⊠ S-2 LOV	V	☐ HIG	H-PILED		NCLOSED	☐ OPEN
		☐ PARKING G	ARAGE	REPAIR	GARAGE					
UTILITY	AND MISC:									
SPECIAL SPECIAL MIXED O	L USES (CHA L PROVISION OCCUPANCY CTUAL AREA	S NOT EXEMPT A  APTER 4 - LIST C  IS (CHAPTER 5 -  : NO  OF OCCUPANCY  EA OF OCCUPAN	ODE SEC	CTIONS): DDE SECTIO SEPARA	Sec NS):occi ATION: <sup>N</sup> L AREA OF	tion 505 Nupants. //A	Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mez	EXC	ical Platform	= 525 sf and
SPECIAL SPECIAL MIXED O	L USES (CHA L PROVISION OCCUPANCY CTUAL AREA	APTER 4 - LIST CONSTRUCTION OF OCCUPANCY	ODE SEC	CTIONS):  DDE SECTIO  SEPARA  ACTUAL	Sec NS):occi ATION: <sup>N</sup> L AREA OF	tion 505 Nupants. //A = OCCUP	Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mezzanines. Mez	<b>EX</b> (0 ≤ 1	CEPTION:	= 525 sf and
SPECIAL SPECIAL MIXED O  AC ALLO	L USES (CHA L PROVISION OCCUPANCY CTUAL AREA OWABLE ARE	APTER 4 - LIST CONSTRUCTION OF OCCUPANCY	YA + CYA +	CTIONS):  DDE SECTIO  SEPARA  ACTUAL	Sec NS):occi ATION: <sup>N</sup> L AREA OF	tion 505 Nupants. //A  FOCCUP OF OCCU	ANCY B JPANCY B	EX( ≤ 1 = ———————————————————————————————————	CEPTION: ≤ 1	(D) ABLE AREA
SPECIAL SPECIAL MIXED O  AC ALLO STORY NO.	L USES (CHA L PROVISION OCCUPANCY CTUAL AREA OWABLE ARE	APTER 4 - LIST CONSIGNATION AND	CY A +  BUILD PER (AC	CTIONS): DDE SECTIO SEPARAACTUAL ALLOWAB  (A) DING AREA STORY	Sec NS): _occi ATION: _N L AREA OF BLE AREA +	tion 505 Nupants. //A  FOCCUP OF OCCU  506.24	ANCY B JPANCY B  (C) AREA FO	EX( ≤ 1 = ———————————————————————————————————	CEPTION: ≤ 1  ALLOWA STORY (	(D) ABLE AREA
SPECIAL SPECIAL MIXED O  AC ALLO STORY NO.	L USES (CHA L PROVISION OCCUPANCY CTUAL AREA OWABLE ARE DESCR	APTER 4 - LIST CONSIGNATION AND USE	DDE SEC LIST CO Y A CY A +	CTIONS): DDE SECTIO SEPARAACTUAL ALLOWAB  (A) DING AREA STORY CTUAL)	Sec NS): _occi ATION: _N L AREA OF BLE AREA +	tion 505 Nupants.  //A  F OCCUP OF OCCU  506.24  EA	ANCY B JPANCY B  (C) AREA FO FRONTAG	EX( ≤ 1 = ———————————————————————————————————	CEPTION:	(D) ABLE AREA OR UNLIMIT
SPECIAL SPECIAL MIXED O  AC ALLO STORY NO.  1 1 1 1-Fro  2-Unli 3-Max 4-The tow	DESCR  BUSINESS  STORAGE (  D. Ratio (F. d. Minimun e. Percenta imited area a ximum Buildin e maximum au vers must con	APTER 4 - LIST CONSIGNATION AND USE  S-2)  APTER 4 - LIST CONSIGNATION SECUPANCY  APPER 5 - APPE	BUILD PER (AC)  Stion 506  Way crease If onditions mber of song garage 12.3.1.	CTIONS): DDE SECTIO SEPARAACTUAL ALLOWAB  (A) PING AREA STORY CTUAL)  371 7,045  2 are comput y or open spar electron 50 stories in the less must comp	Sec NS):occi ATION:N  L_AREA OF BLE AREA  +	tion 505 Mupants/A  = OCCUP OF OCCU  506.24 EA  000 000  20 feet m  30 0 (506.2) 6.5.4. The	ANCY B JPANCY B  (C) AREA FO FRONTAG INCREASI  75%  75%	EX( ≤ 1 =	= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =	(D) ABLE AREA OR UNLIMIT
SPECIAL SPECIAL MIXED O  AC ALLO STORY NO.  1 1 1 1-Fro  2-Unli 3-Max 4-The tow 5-Fro	DESCR  BUSINESS  STORAGE (  Description of the process of the proc	S-2)  Creases from Sector which fronts a philding Perimeter (P)  In Width of Public Vage of frontage inception of the philosophy with Table 41 se is based on the sector of the philosophy with Table 41 se is based on the sector of the philosophy with Table 41 sector of the philosophy with Ta	BUILD PER (AC)  Action 506  Way crease If onditions mber of some garage 2.3.1.  a unsprink	CTIONS): DDE SECTIO SEPARA	Sec NS):occi ATION: N  L AREA OF BLE AREA  + (B) TABLE (AREA)  26,0 26,0 26,0  ted thus: ace having  0.25] x W/3 07. building x E bly with 406 alue in Tab	tion 505 Mupants/A  = OCCUP OF OCCU  506.24 EA  000 000  20 feet m  30 0 (506.2) 5.5.4. The	ANCY B JPANCY B  (C) AREA FO FRONTAG INCREASI  75%  75%	EX( ≤ 1 =	= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =	(D) ABLE AREA OR UNLIMIT  -5,500 SF

#### <sup>1</sup> Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

BUILDING ELEMENT	FIRE SEPAR DISTANCE (FEET)	REQ.	RATING PROVIDED (w/ *Reduction)	DETAIL # AND SHEET	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	FOR RATED
STRUCTURAL FRAME (INCLUDING COLUMNS, GIRDERS, TRUSSES)	-	-	N/A	-	-	-	-
BEARING WALLS	-	-	-	-	-	-	-
EXTERIOR NORTH	>30'	-	0	-	-	-	-
EXTERIOR EAST	>30'	-	0	-	-	-	-
EXTERIOR WEST	>30'	-	0	-	-	-	-
EXTERIOR SOUTH	>30'	-	0	-	-	-	-
INTERIOR	-	-	-	-	-	-	-
NONBEARING WALLS AND PARTITIONS	-	-	-	-	-	-	-
EXTERIOR NORTH	>30'	-	0	-	-	-	-
EXTERIOR EAST	>30'	-	0	-	-	-	-
EXTERIOR WEST	>30'	-	0	-	-	-	-
EXTERIOR SOUTH	>30'	-	0	-	-	-	-
INTERIOR WALLS AND PARTITIONS	-	-	-	-	-	-	-
FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		-	-	-	-	-	-
FLOOR CEILING ASSEMBLY		-	-	-	-	-	-
COLUMNS SUPPORTING FLOORS		-	-	-	-	-	-
ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)		-	0	-	-	-	-
ROOF CEILING ASSEMBLY		-	-	-	-	-	-
COLUMNS SUPPORTING ROOF		-	-	-	-	-	-
SHAFT ENCLOSURES - EXIT		-	-	-	-	-	-
SHAFT ENCLOSURES - OTHER		-	-	-	-	-	-
CORRIDOR SEPARATION		-	-	-	-	-	-
OCCUPANCY / FIRE BARRIER SEPARATI	ON	-	-	-	-	-	-
PARTY / FIRE WALL SEPARATION		-	-	-	-	-	-
SMOKE BARRIER SEPARATION		-	-	-	-	-	-
SMOKE PARTITION		-	-	-	-	-	-
TENANT / DWELLING UNIT / SLEEPING U SEPARATION	NIT	-	-	-	-	-	-
INCIDENTAL USE SEPARATION		_	_	-	_	-	-

\*Indicate section number permitting reduction

#### PERCENT OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
180	UP, NS	NO LIMIT	-
-	-	-	-
-	-	-	-

#### LIFE SAFETY SYSTEM REQUIREMENTS

	. <b>—</b>	
ERGENCY LIGHTING:	$\square$ NO	$oxed{\boxtimes}$ YES
T SIGNS:	$\square$ NO	$oxed{\boxtimes}$ YES
E ALARM:	oxtimes NO	☐ YES
OKE DETECTION SYSTEMS:	$\square$ NO	$oxed{\boxtimes}$ YES
RBON MONOXIDE DETECTION:	☐ NO	

### LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET:	G004 - LIFE SAFETY PLANS

- ☐ FIRE AND / OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
- ☐ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN)
- ☐ EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
- OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
- OCCUPANT LOADS FOR EACH AREA
- COMMON PATH OF TRAVEL DISTANCES (1016.2.1 & 1006.3.2(1))
- ☐ DEAD END LENGTHS (1020.4)
- MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT
- DOOR CAN ACCOMODATE BASED ON EGRESS WIDTH (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 (1010.1.9.9)
- ☐ 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 (407.4)

## □ NOTE ANY CODE EXCEPTION OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE.

ACCES	SSIBLE D	WELLIN	IG UNITS	S (SECTI	ON 1107	7)	
TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
-	-	-	-	-	-	-	-

## **ACCESSIBLE PARKING (SECTION 1106)**

LOT OR AREA		L # OF S SPACES	TOTAL # OF PARKING SPACES		TOTAL ACCESSIBLE	
PARKING	REQUIRED	PROVIDED	REGULAR WITH 5'			PROVIDED
			ACCESSIBLE ISLE			
-	-	-	-	-	-	-
-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-

## PLUMING FIXTURE REQUIREMENTS (TABLE 2902.1)

U	SE	WATER CLOSETS		URINALS	LAVAT	ORIES	SHOWERS /	DRINKING	FOUNTAINS
		MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
SPACE	EXISTING	-	-	-	-	-	-	-	
	NEW	1	-	-	1	-	-	-	-
	REQUIRED	1	1	-	1	1	-	-	-

#### SPECIAL APPROVALS

SPECIAL APPROVAL REQUIRED:	☐ NO	☐ YES
☐ LOCAL JURISDICTION	□ osc	□ DHHS
☐ DEPARTMENT OF INSURANCE	☐ DPI	☐ OTHER:
DESCRIPTION:		



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PROJECT INFORMATION

acility



DKA JOB NUMBER 2403

REVISIONS

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**Bid Documents** 1/13/2025

SHEET TITLE CODE SUMMARY

#### **APPENDIX B** 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES) **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: \_ **EXEMPT BUILDING** (PROVIDE CODE OR STATUTORY REFERENCE): CLIMAGE ZONE: $\square$ 3A $\boxtimes$ 4A $\square$ 5A **METHOD OF COMPLIANCE:** Energy Code: ☐ Prescriptive ☐ Performance ASHRAE 90.1: Prescriptive Performance (IF "OTHER", SPECIFY SOURCE HERE) EXEMPT BY 2018 NCECC C101.2 THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY) ROOF / CEILING ASSEMBLY (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY: BUILDING IS HEATED ONLY. STANDING SEAM METAL ROOF OVER INSULATED LINER SYSTEM U-VALUE OF TOTAL ASSEMBLY: R19 + R11 R-VALUE OF INSULATION:\_ N/A SKYLIGHTS IN EACH ASSEMBLY: N/A U-VALUE OF SKYLIGHT: TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY: N/A EXTERIOR WALLS (EACH ASSEMBLY) BUILDING IS HEATED ONLY. 8" SPLIT FACE CMU AND METAL WALL PANELS OVER INSULATED LINER SYSTEM DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-0 + R-13 and R-7.6 R-VALUE OF INSULATION:\_ OPENINGS (WINDOWS OR DOORS WITH GLAZING) U-VALUE OF ASSEMBLY: \_\_ SOLAR HEAT GAIN COEFFICIENT:\_ PROJECTION FACTOR: \_ DOOR R-VALUES: \_\_ WALLS BELOW GRADE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:\_\_ FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY) DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION: **FLOORS SLAB ON GRADE** DESCRIPTION OF ASSEMBLY: \_\_\_\_4" Concrete Slab on Vapor Retarder on Grade U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:\_\_\_\_\_ HORIZONTAL / VERTICAL REQUIREMENT: \_\_\_\_ SLAB HEATED:\_\_\_\_\_ STRUCTURAL DESIGN SUMMARY **DESIGN LOADS** IMPORTANCE FACTORS SNOW (Is): \_\_\_\_\_\_ LIVE LOADS ROOF (PSF): MEZZANINE (PSF): \_\_\_\_\_ FLOOR (PSF):\_\_\_\_\_ GROUND SNOW LOAD (PSF): WIND LOAD BASIC WIND SPEED (MPH) (ASCE-7): \_\_\_\_ EXPOSURE CATEGORY: \_\_\_ SEISMIC DESIGN CATEGORY: PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS RISK CATEGORY (TABLE 1604.5): SPECTRAL RESPONSE ACCELERATION: S<sub>S\_\_\_</sub>-\_\_\_%g SITE CLASSIFICATION (ASCE 7): A B C D E F DATA SOURCE: Field Test Presumptive Historical Data BASIC STRUCTURAL SYSTEM: ☐ Bearing Wall ☐ Dual w/ Special Moment Frame ☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel ANALYSIS PROCEDURE: Simplified Equivalent Lateral Force Dynamic LATERAL DESIGN CONTROL: Earthquake Wind SOIL BEARING CAPACITIES (PSF): Field Test (psf) Presumptive Bearing Capacity (psf) \_\_\_\_ Pile Size, Type and Capacity \_\_\_\_\_

	16°F		
WINTER DRY BULB:			
SUMMER DRY BULB:			
INTERIOR DESIGN CONDITION	-		
WINTER DRY BULB:	00 F		
SUMMER DRY BULB:			
RELATIVE HUMIDITY:	-		
BUILDING HEATING LOAD:	103.5 MBH		
BUILDING COOLING LOAD:	-		
MECHANICAL SPACING COND	ITIONING SYSTEM		
UNITARY			
DESCRIPTION OF UNI	T:		7
HEATING EFFICIENCY	:		SEE SCHEDULES ON SHEET M6
COOLING EFFICIENCY	<b>/</b> :		
SIZE CATEGORY OF L	JNIT:		
BOILER			
SIZE CATEGORY. IF O	VERSIZED, STATE REASO	ON:	
CHILLER			
SIZE CATEGORY. IF O	VERSIZED, STATE REASO	ON: N/A	
LIST EQUIPMENT EFFICIENCIE  ELECTRICAL DES ELECTRICAL SYSTEMS AND EQUIPMENT	IGN SUMMAF	RY	
ELECTRICAL DES	S:  IGN SUMMAF  MENT  Energy Code:   Prescrip	<b>₹</b> ptive ☐ Performance	е
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ELECTRICAL DES ELECTRICAL DES ELECTRICAL SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:  LIGHTING SCHEDULE  LAMP TYPE REQUIRED IN FIE  NUMBER OF LAMPS IN THE  BALLAST TYPE USED IN THE  NUMBER OF BALLASTS IN T  TOTAL WATTAGE PER FIXTU  TOTAL INTERIOR WATTAGE  TOTAL EXTERIOR WATTAGE  TOTAL EXTERIOR WATTAGE  (WHEN USING THE 2018 NCECTOR)  C406.2 MORE EFFICIENT HV  C406.3 REDUCED LIGHING FE  C406.4 ENHANCED DIGITAL	S:  IGN SUMMAF MENT  Energy Code: Prescrip  ASHRAE 90.1: Prescrip  XTURE  FIXTURE  FIXTURE  HE FIXTURE  JRE  SPECIFIED VS. ALLOWER  SE SPECIFIED VS. ALLOW  KAGE OPTIONS  C; NOT REQUIRED FOR A  AC EQUIPMENT PERFOR  POWER DENSITY  LIGHTING CONTROLS  E ENERGY	Performance  Perfo	e e
ELECTRICAL DES ELECTRICAL SYSTEMS AND EQUIPM METHOD OF COMPLIANCE:  LIGHTING SCHEDULE  LAMP TYPE REQUIRED IN THE NUMBER OF LAMPS IN THE BALLAST TYPE USED IN THE NUMBER OF BALLASTS IN T TOTAL WATTAGE PER FIXTU TOTAL INTERIOR WATTAGE TOTAL EXTERIOR WATTAGE (WHEN USING THE 2018 NCEC)  C406.2 MORE EFFICIENT HV C406.3 REDUCED LIGHING F C406.4 ENHANCED DIGITAL  C406.5 ON-SITE RENEWABL	S:	ptive Performance ptive Performance  SEE LIGHT FIXTURE  D - 1697W VS. 2697W  /ED - 210W VS. 750W  ASHRAE 90.1)  MANCE	e e



PROJECT INFORMATION

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DKA JOB NUMBER 2403

REVISIONS

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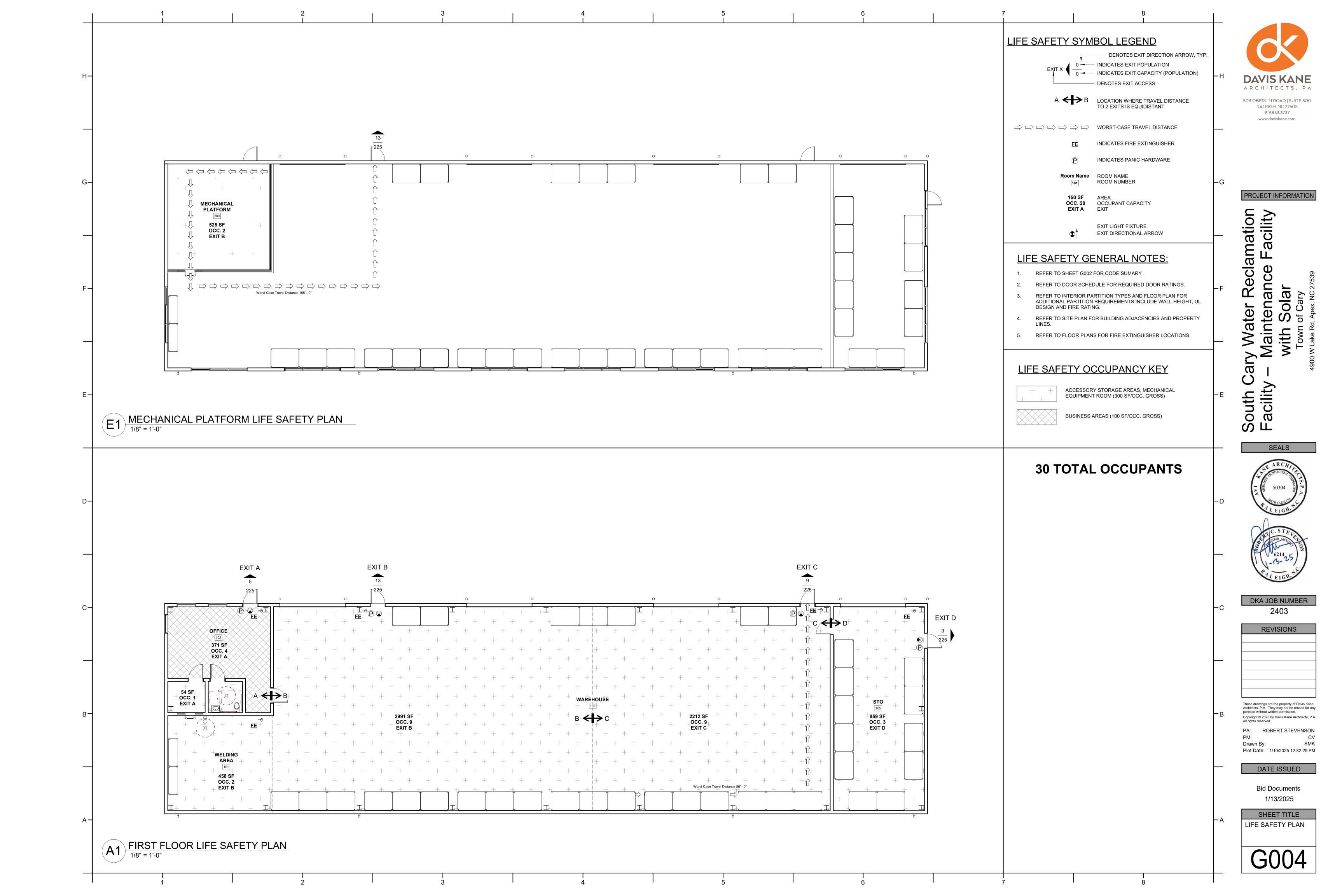
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SHEET TITLE
CODE SUMMARY

G003



# SOUTH CARY WATER RECLAMATION FACILITY -MAINTENANCE FACILITY WITH SOLAR

4900 WEST LAKE ROAD, APEX NC 27539

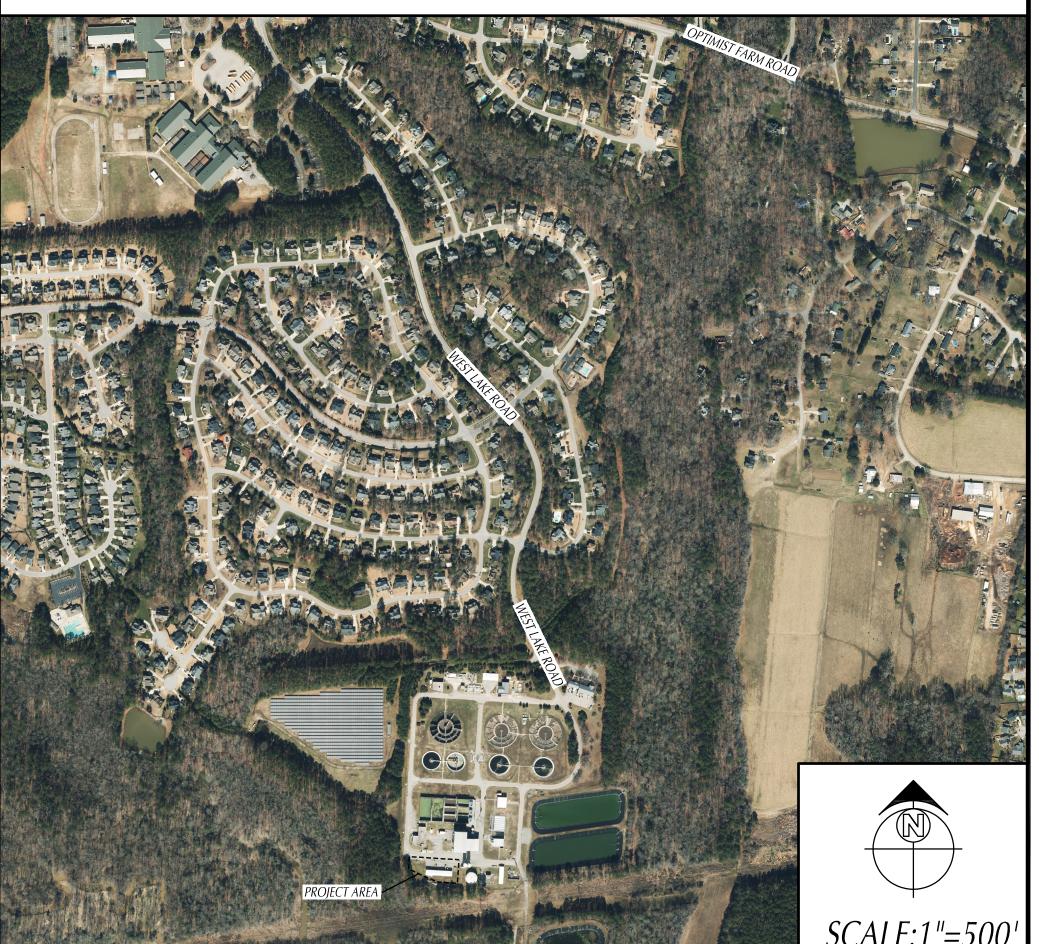
BID DOCUMENTS CLH PROJECT # 24-103

#### DRAWING INDEX

C201 STAKING & LANDSCAPE PLAN



## VICINITY MAP



### PROJECT SCOPE SUMMARY

ARCHITECTURAL SCOPE:

OWNER TO DEMOLISH THE EXISTING STORAGE/MAINTENANCE BUILDING PRIOR TO CONSTRUCTION OF THIS PROJECT. NEW WORK INCLUDES THE CONSTRUCTION OF A NEW 7.350 SQ FT PRE-ENGINEERED METAL BUILDING WITH SOLAR AND SLAB ON GRADE FOUNDATION. WORK SHALL BE UNDER THE BUILDING PERMIT. NO MAJOR EXTERIOR IMPROVEMENTS. REFER TO THE ARCHITECTURAL ELEVATIONS.

SITE IMPROVEMENTS SCOPE: SITE WORK INCLUDES MISCELLANEOUS GRADING/EARTHWORK, EROSION AND SEDIMENT CONTROL, INSTALLATION OF EXTERIOR CONCRETE SIDEWALK/PADS. MODIFICATIONS OF EXISTING ASPHALT APRON/DRIVE AND CONCRETE CURB & GUTTER. THE SITE WORK CONSISTS OF A NEW WATER AND SANITARY SEWER SERVICE TO SERVE THE NEW MAINTENANCE BUILDING. NO CHANGE IN OCCUPANCY OR LAND USE.

#### SITE DATA TABLE

TOWN OF CARY JOHN HOLLOWAY PO BOX 8005 CARY NC, 27512-8005 919-462-3875

JOHN.HOLLOWAY@CARYNC.GOV

CLH DESIGN, PA LANDSCAPE ARCHITECT: TROY OLSON, PLA, ASLA 400 REGENCY FOREST DRIVE, SUITE 120

919-319-6716

CLH DESIGN, PA

STEVE MILLER, PE 400 REGENCY FOREST DRIVE, SUITE 120

919-319-6716,

DAVIS KANE ARCHITECTS, PA CHAD VOLK, AIA 503 OBERLÍN RD. STE. 300

PROJECT ADDRESS: 4900 WEST LAKE ROAD

APEX, NC 27539

PLANNING JURISDICTION: TOWN OF CARY 0679214790 REAL ESTATE ID: 0150419 DEEDED ACREAGE: 118.11 ACRES

DEED BOOK & PAGE REF: BK 003765, PG 00182 ZONING: OVERLAY DISTRICT: PUBLIC UTILITY FACILITY EXISTING/PROPOSED USE:

TOWN OF CARY SETBACK REQUIREMENTS ROADWAY:

REAR:

TOWN OF CARY PARKING REQUIREMENTS

PARKING REQUIREMENTS ARE BASED ON 'SCHEDULE C' PER THE TOWN'S LDO (7.8.2(D)(3)). PARKING SPACES ARE NOT PROPOSED TO BE ALTERED (REMOVED OR NEW PROVIDED) SINCE THERE IS NO CHANGE IN USE OR OCCUPANCY ASSOCIATED WITH THIS PROJECT.

TOWN OF CARY BIKE SPACE REQUIREMENTS

BIKE SPACES ARE NOT REQUIRED (N/A) SINCE THIS IS A 'GOV'T SERVICES' FACILITY AND THE LAND USE IS DEEMED A 'PUBLIC UTILITY FACILITIES' PER TOWN'S LDO.

**WATERSHED:** MIDDLE CREEK STREAM BUFFERS: N/A

EXISTING BLDG/STRUCTURE AREA: 3,600 SF (TO BE DEMOLISHED) NEW BLDG/STRUCTURE AREA: 7.350 SF

NET BLD/STRUCTURE INCREASE: 3,750 SF (BELOW 5,000 SF THRESOLD PER LDO) DISTURBED AREA (PROJECT AREA): 0.76 ACRES (33,216 SF)

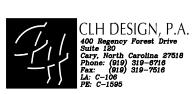
EXISTING IMPERVIOUS: 0.31 ACRES 0.40 ACRES PROPOSED IMPERVIOUS: NET IMPERVIOUS INCREASE: 0.09 ACRES

THE SUBJECT PARCEL IS <u>NOT</u> LOCATED WITHIN A SPECIAL FLOOD HAZARD AS DETERMINED BY FEMA AND AND DEPICTED ON F.I.R.M. MAP 3720067900K, DATED JULY 19, 2022 (MAP REVISED) AS BEING WITHIN ZONE X.

NOTE: CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DIGGING. 1-800-632-4949



503 OBERLIN ROAD | SUITE 300 RALEIGH, NC 27605 919.833.3737



PROJECT INFORMATION

SEALS



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CLH JOB NUMBER 24-103

	REVISIONS	3

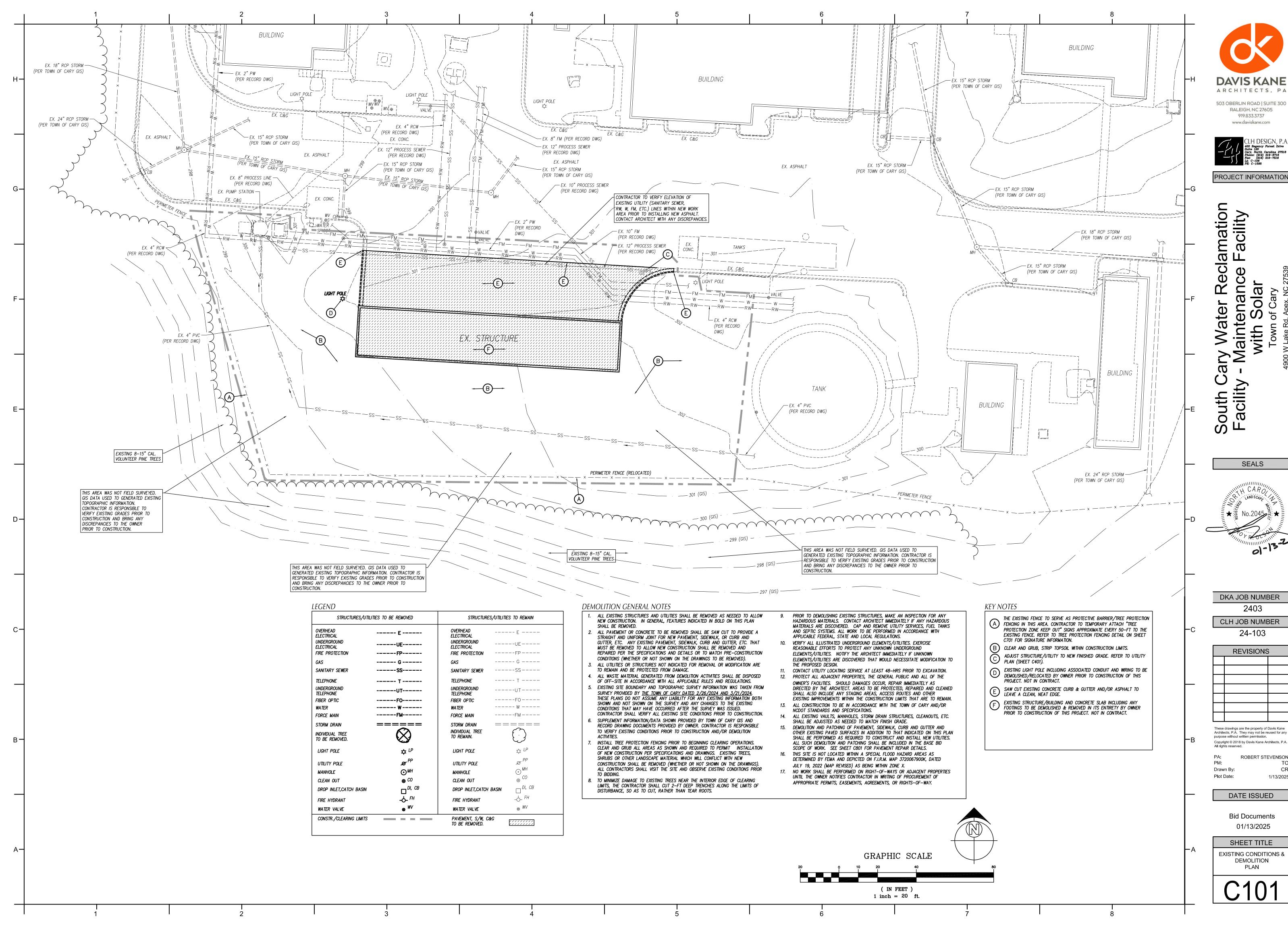
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COVER SHEET



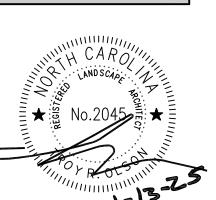


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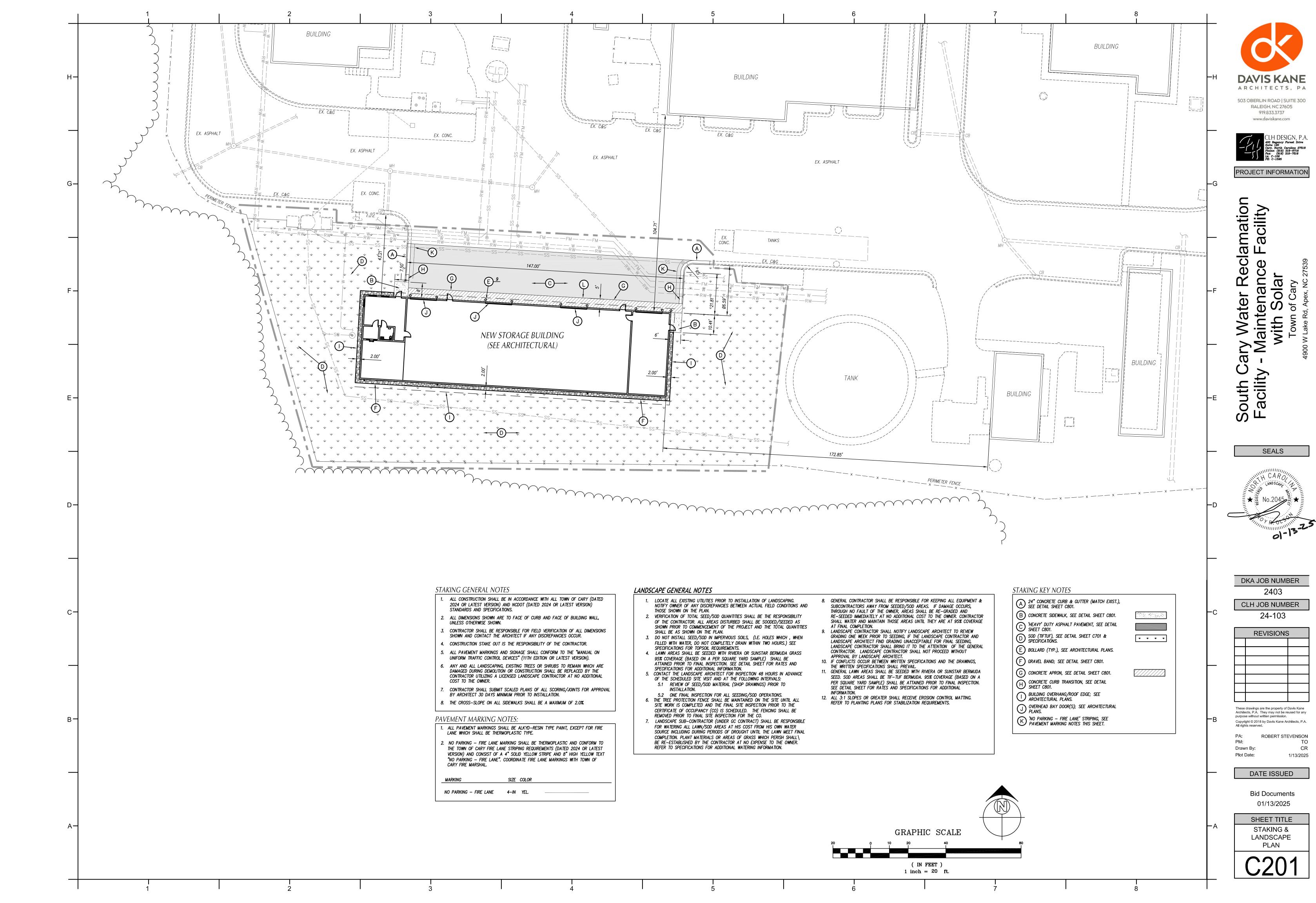
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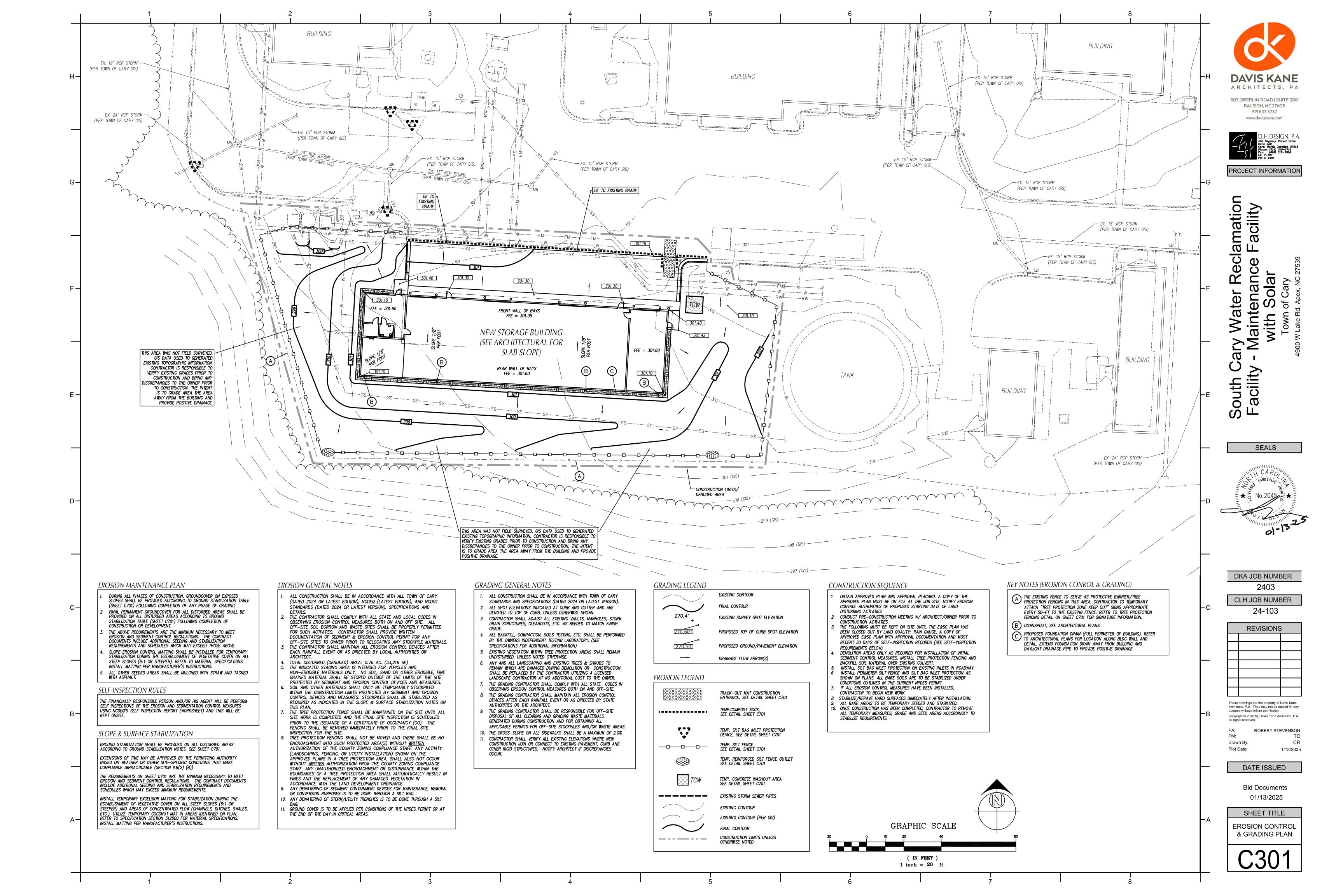
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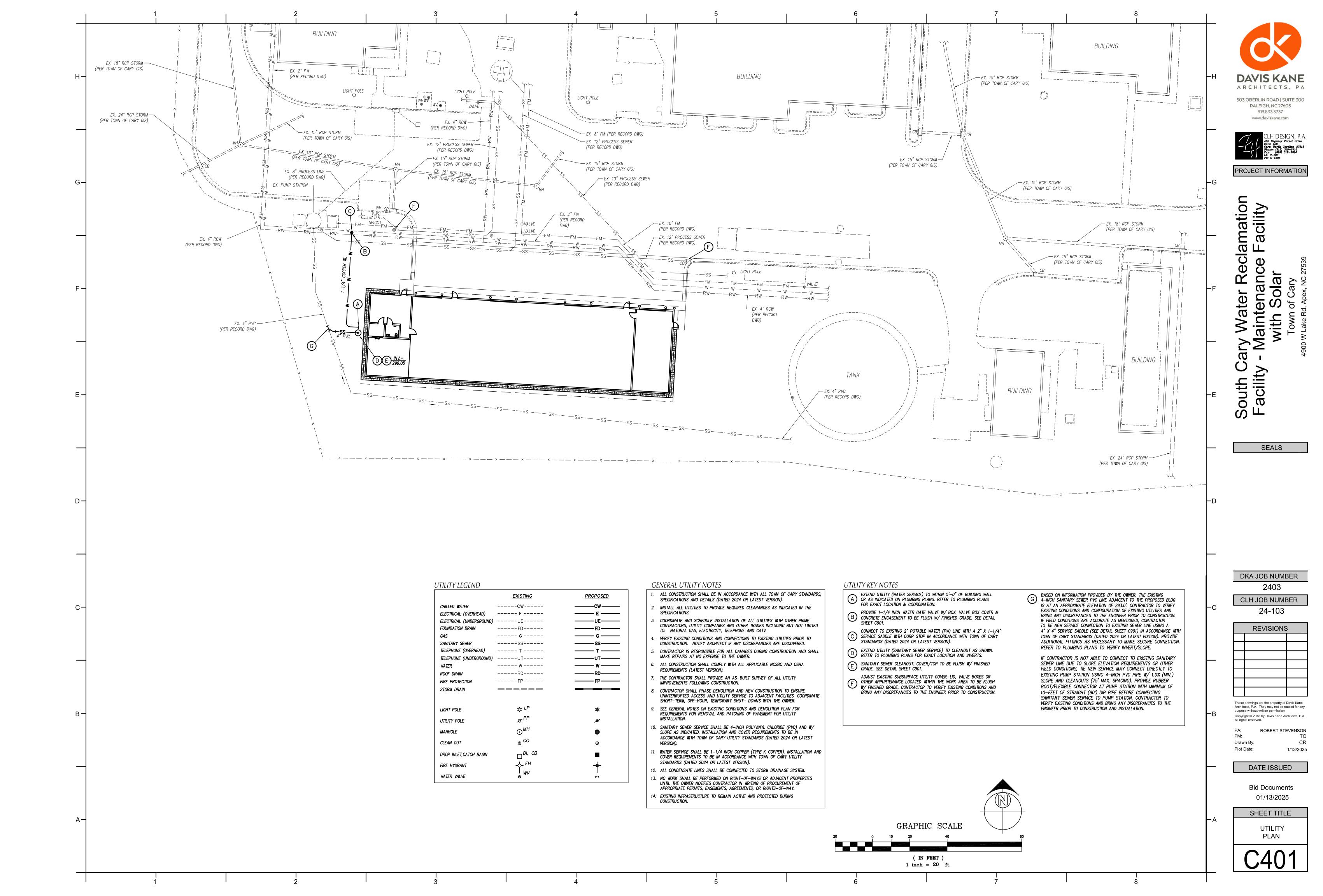
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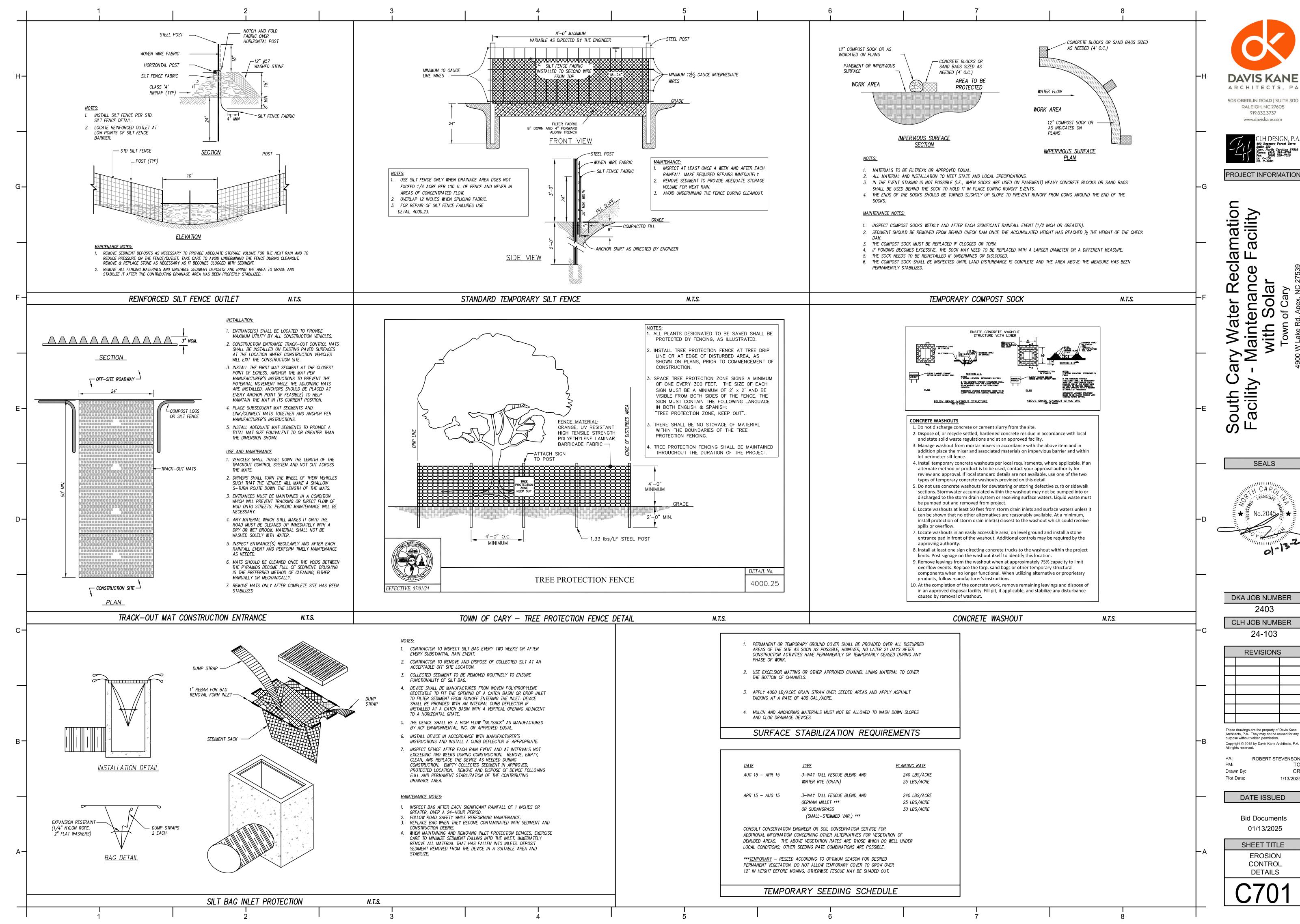
SHEET TITLE **EXISTING CONDITIONS &** 

DEMOLITION PLAN











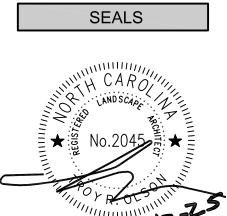
RALEIGH, NC 27605

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CLH JOB NUMBER 24-103

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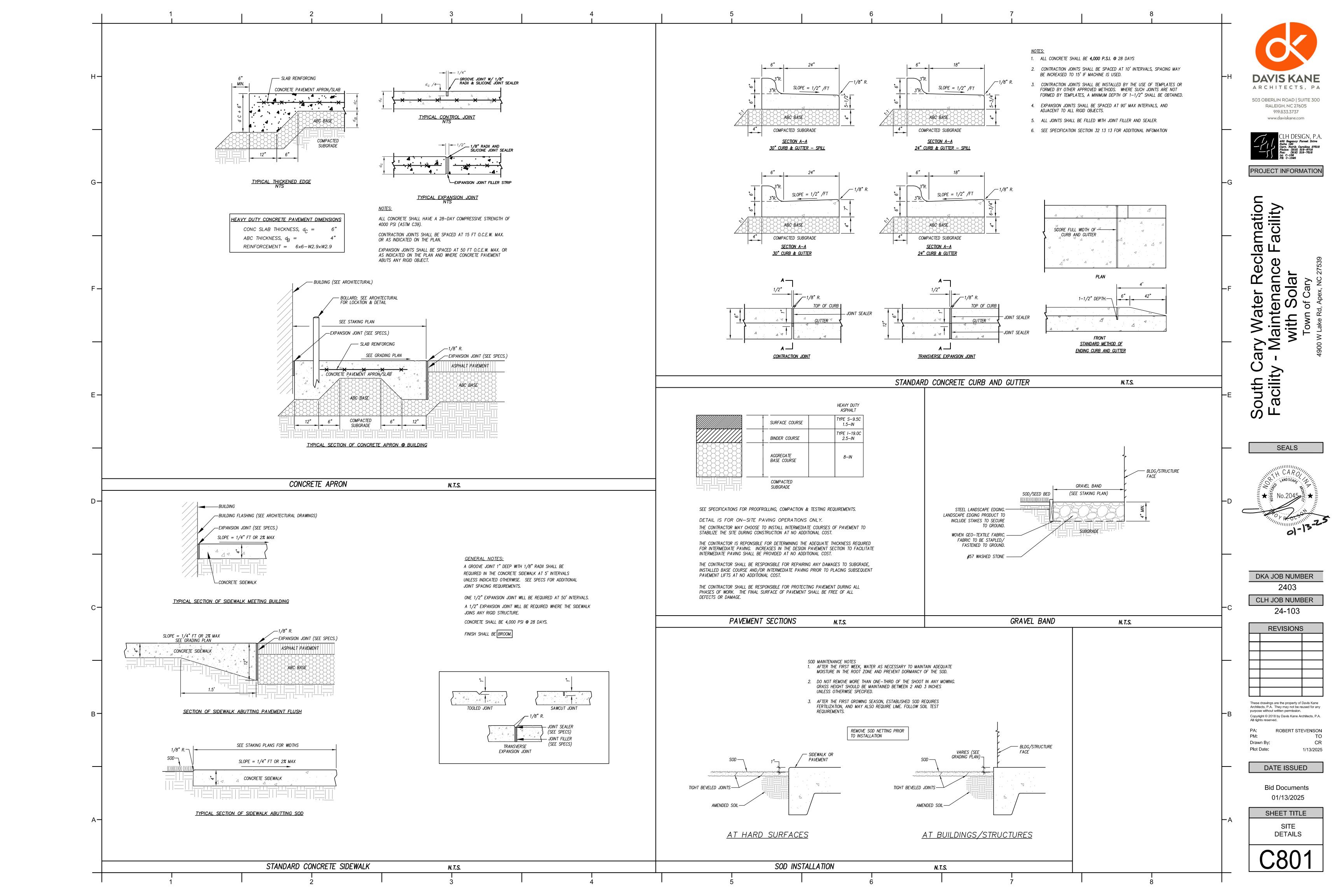
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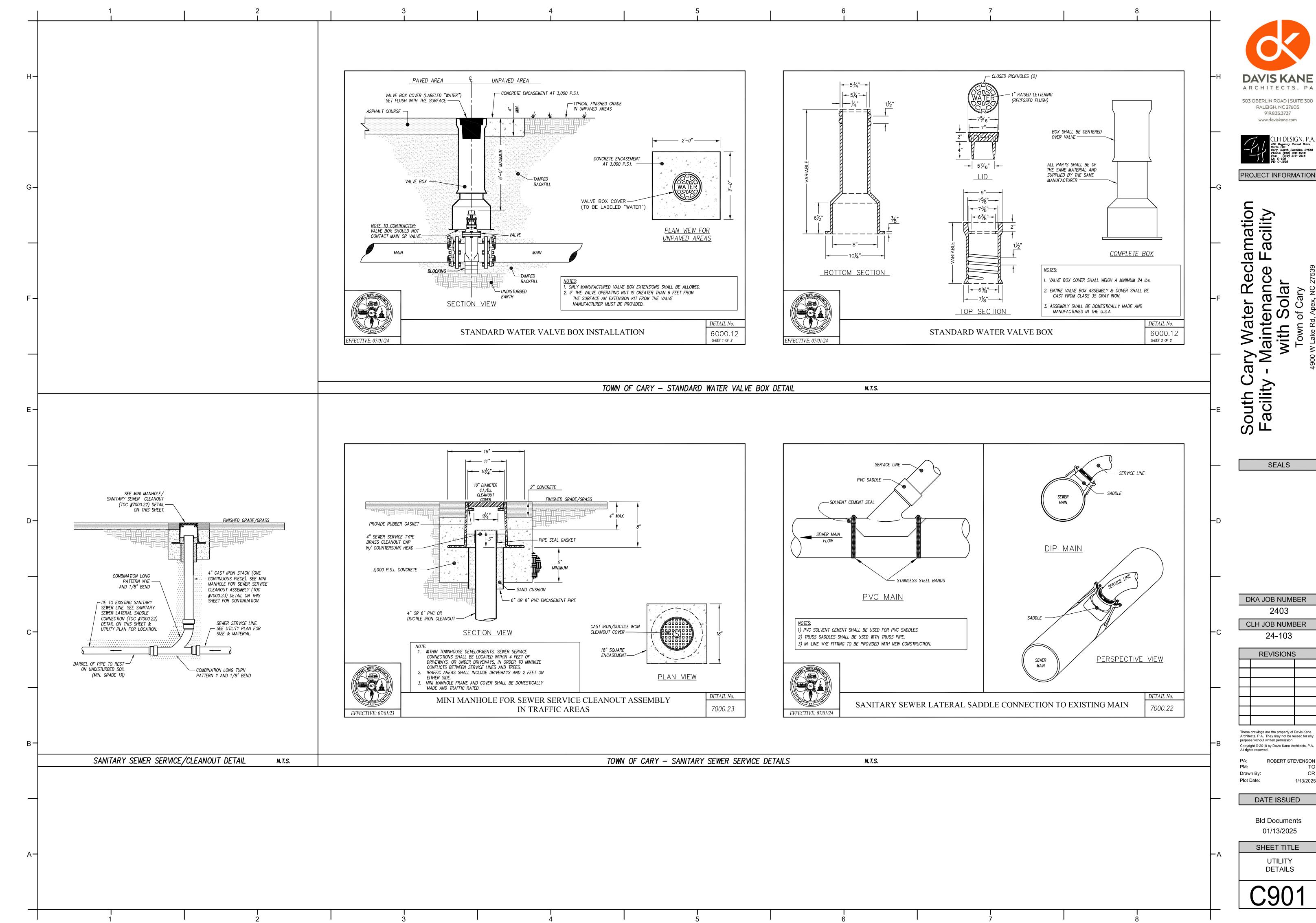
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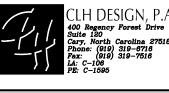
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SHEET TITLE **EROSION** CONTROL DETAILS





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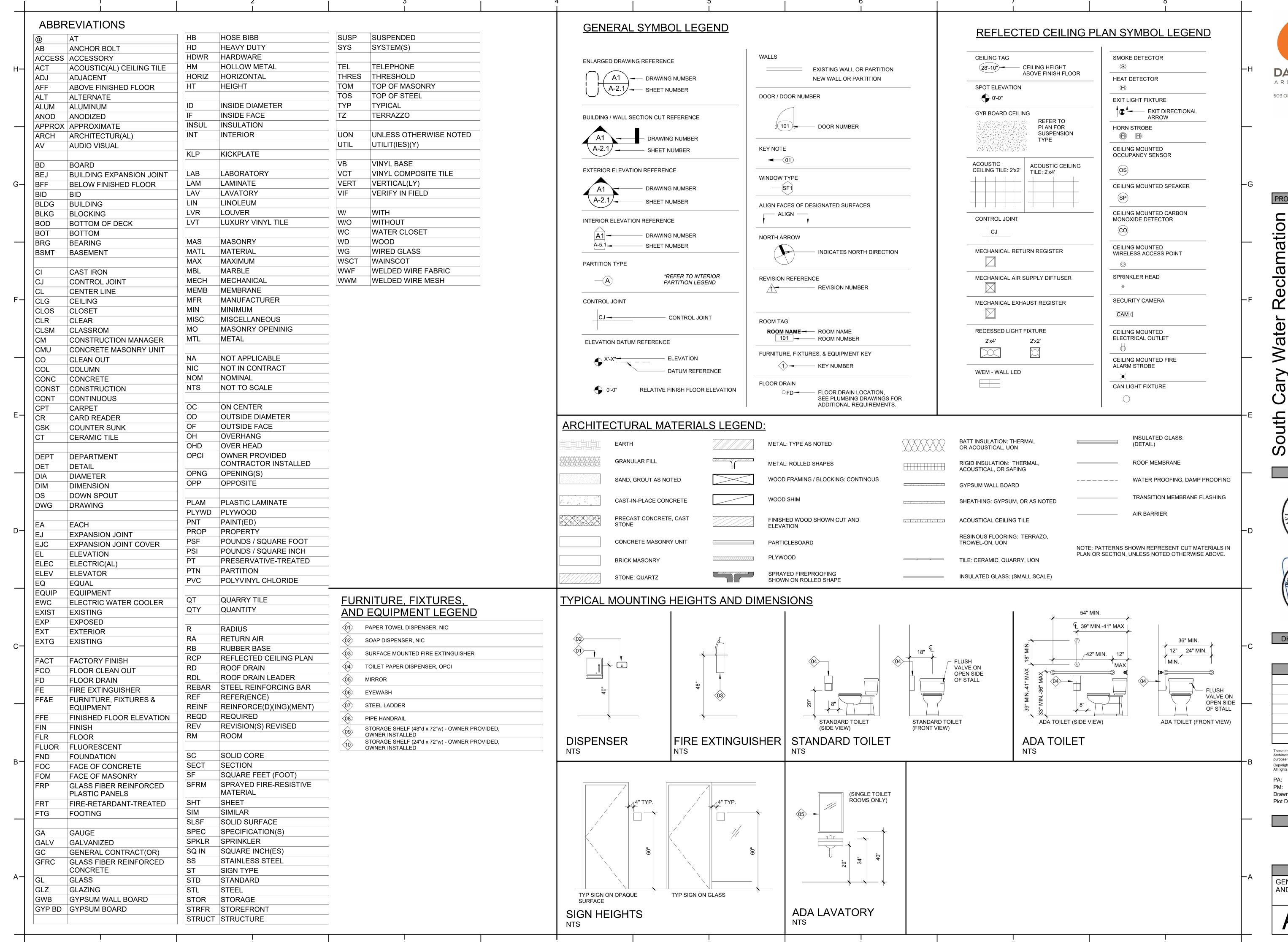
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SHEET TITLE UTILITY DETAILS





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ARCHITECTURAL COMPANY

50304

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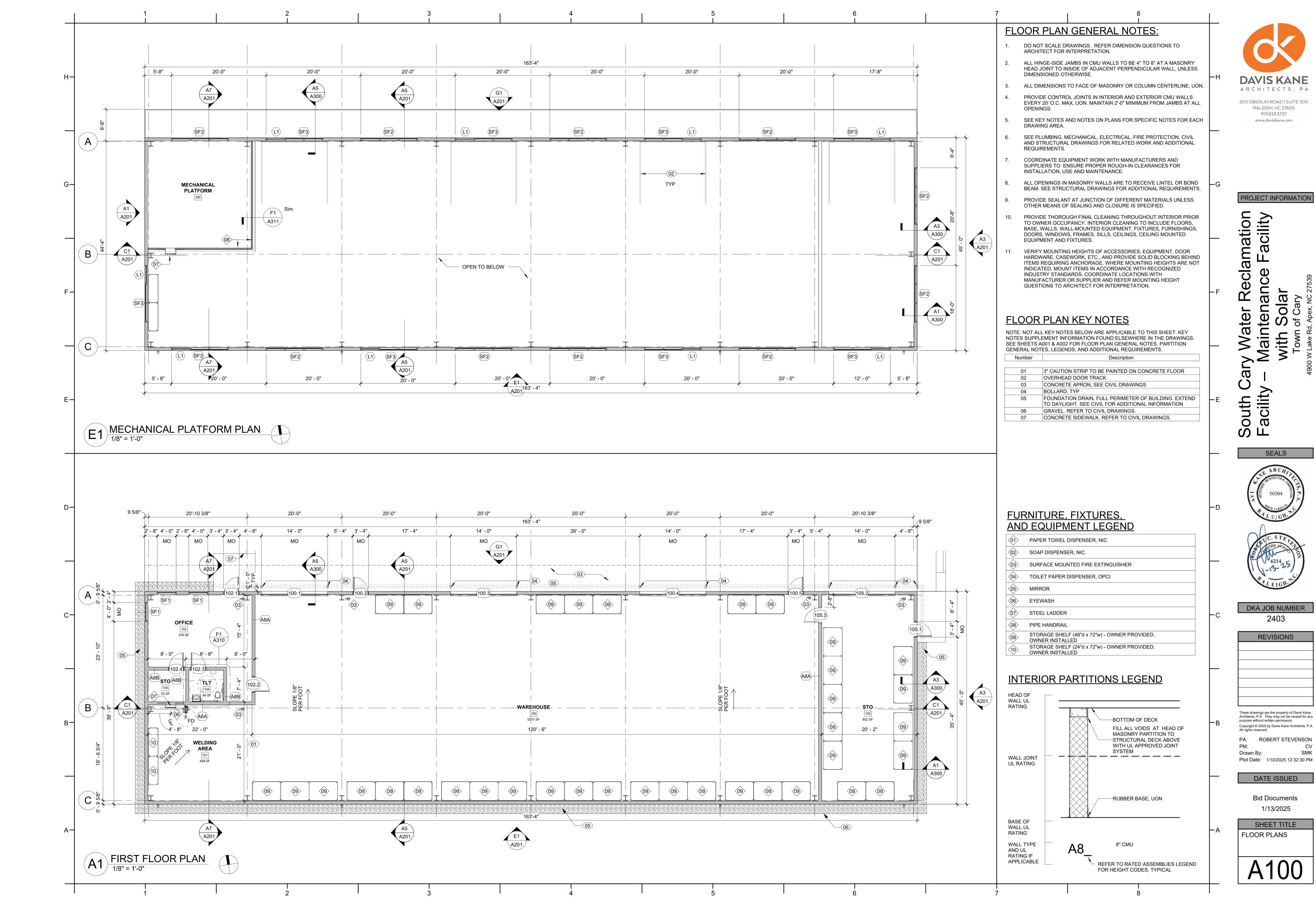
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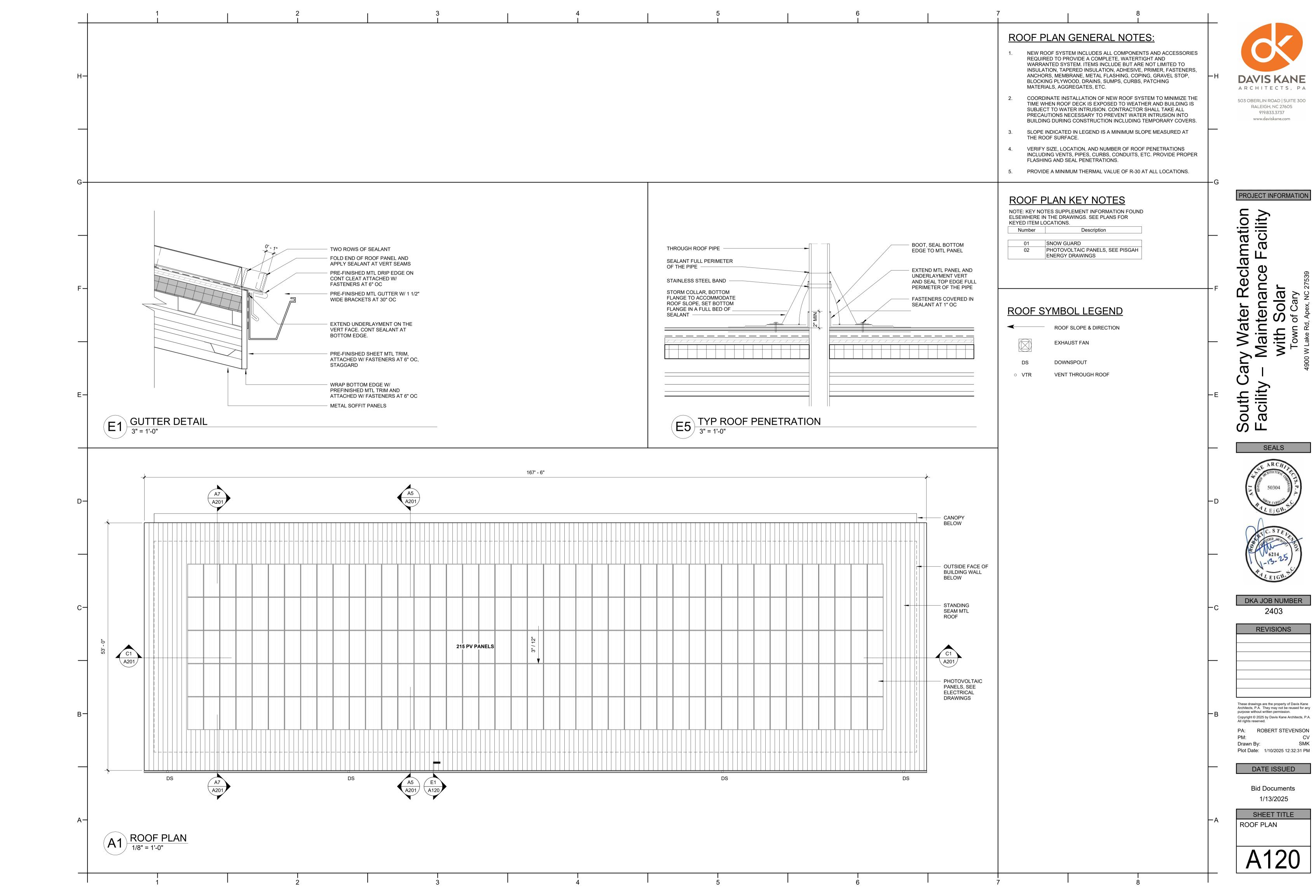
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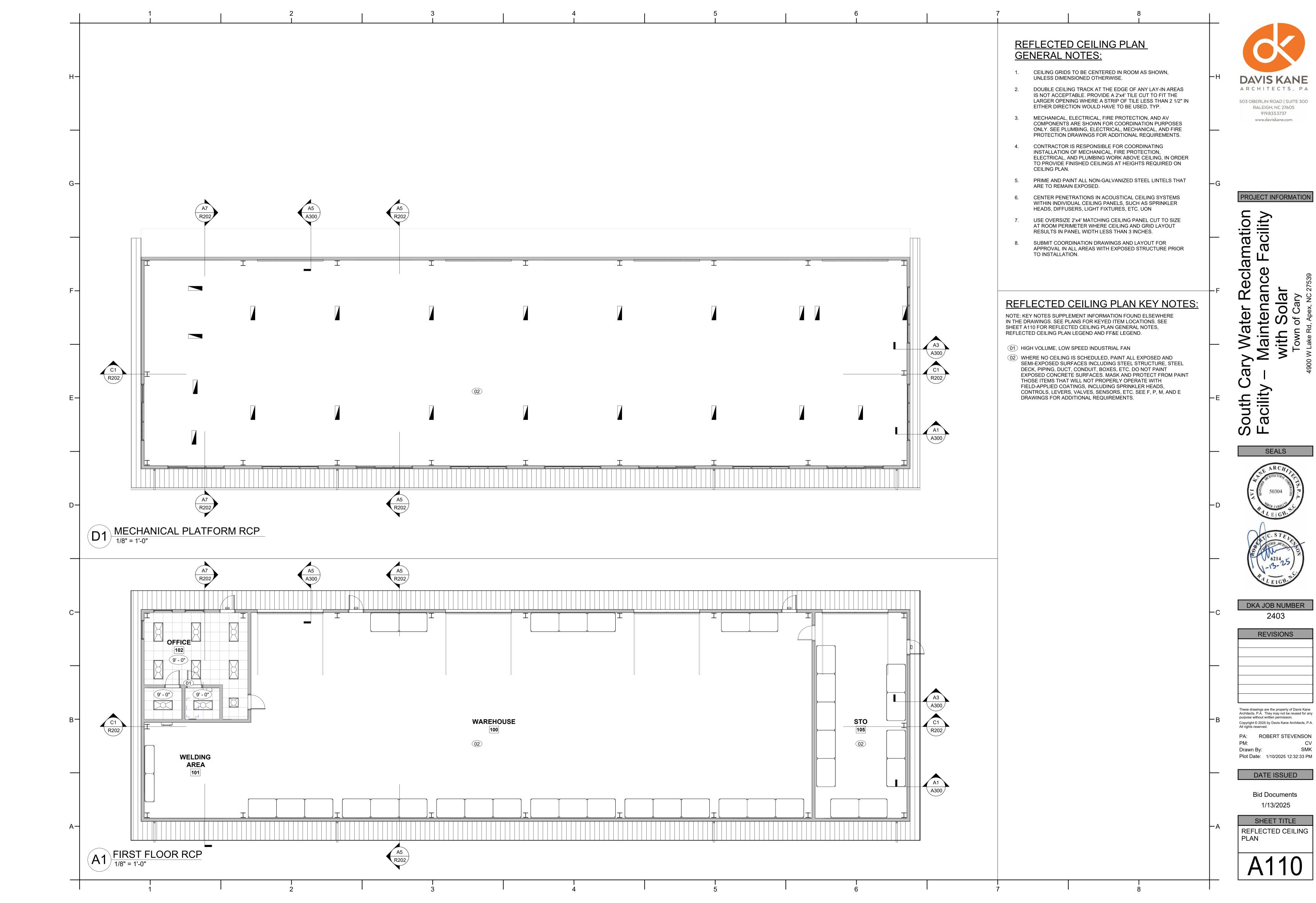
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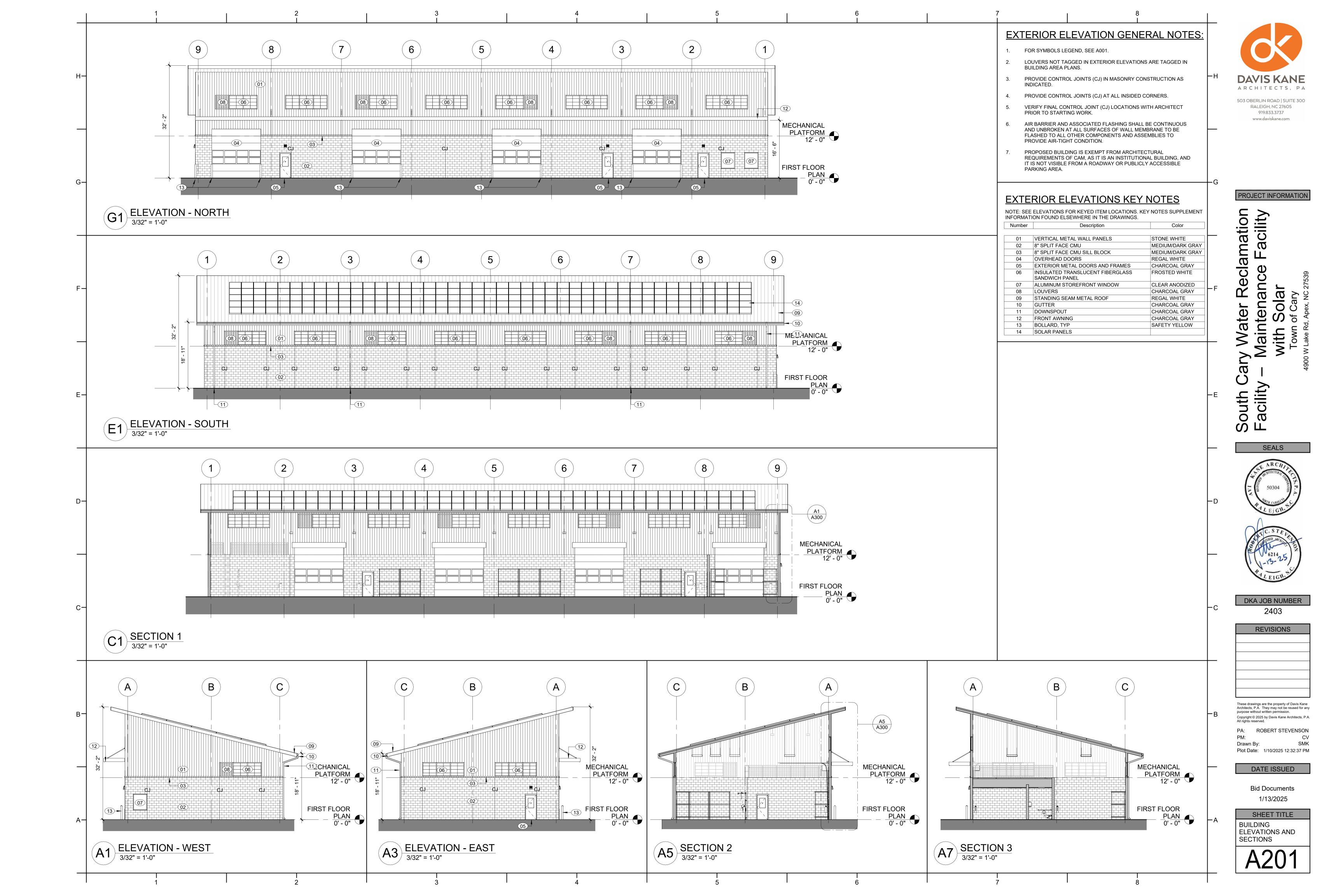
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AND LEGENDS

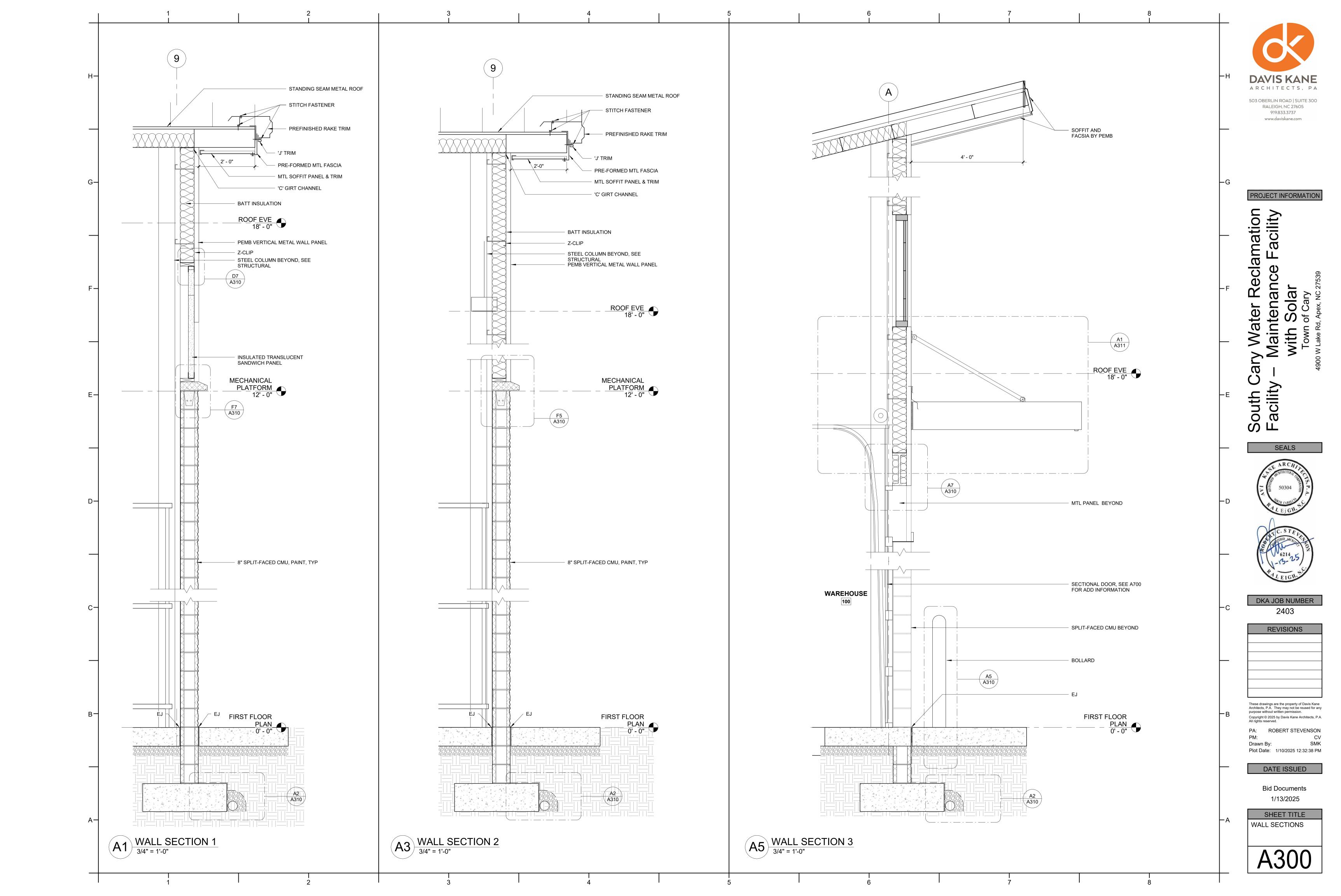
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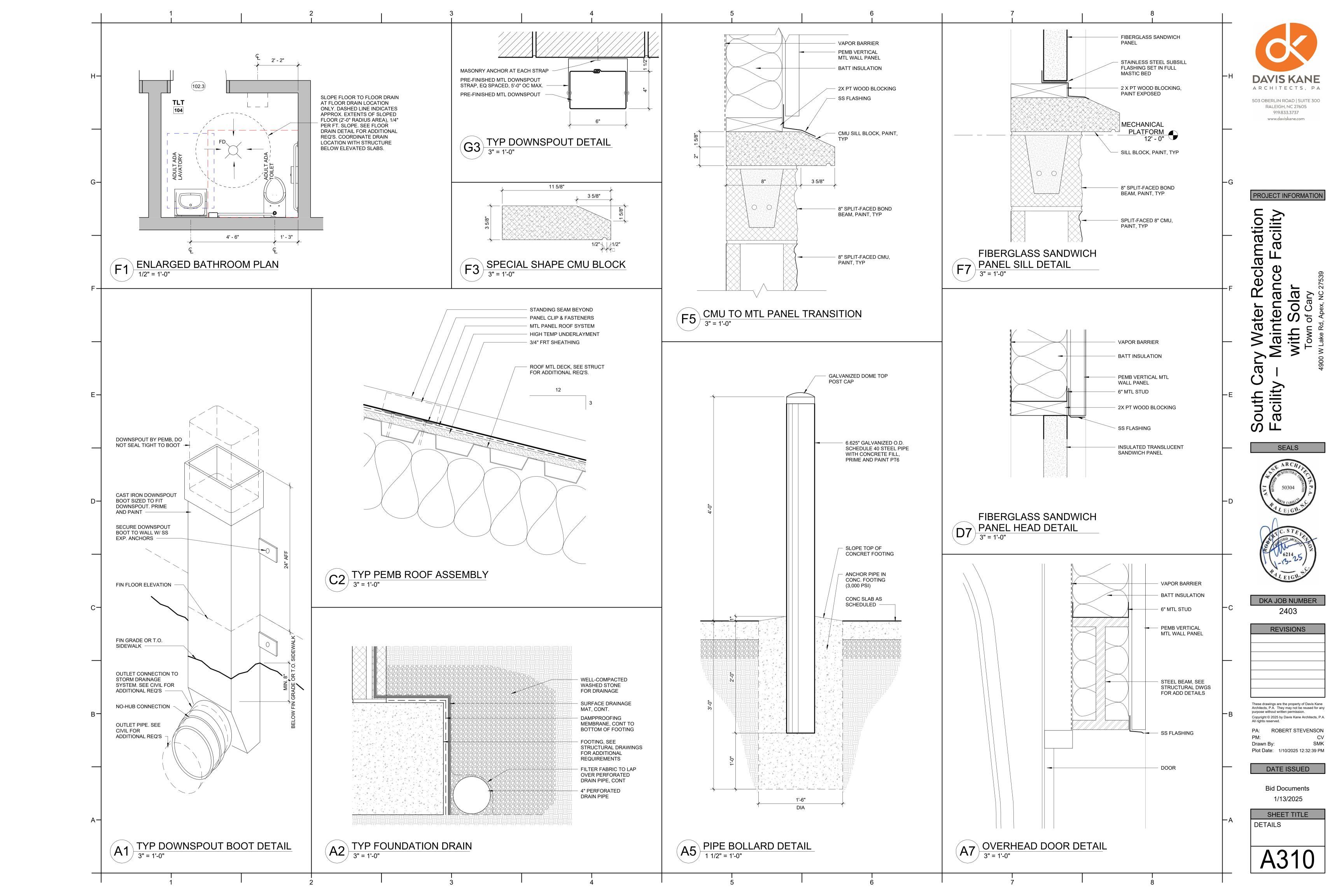


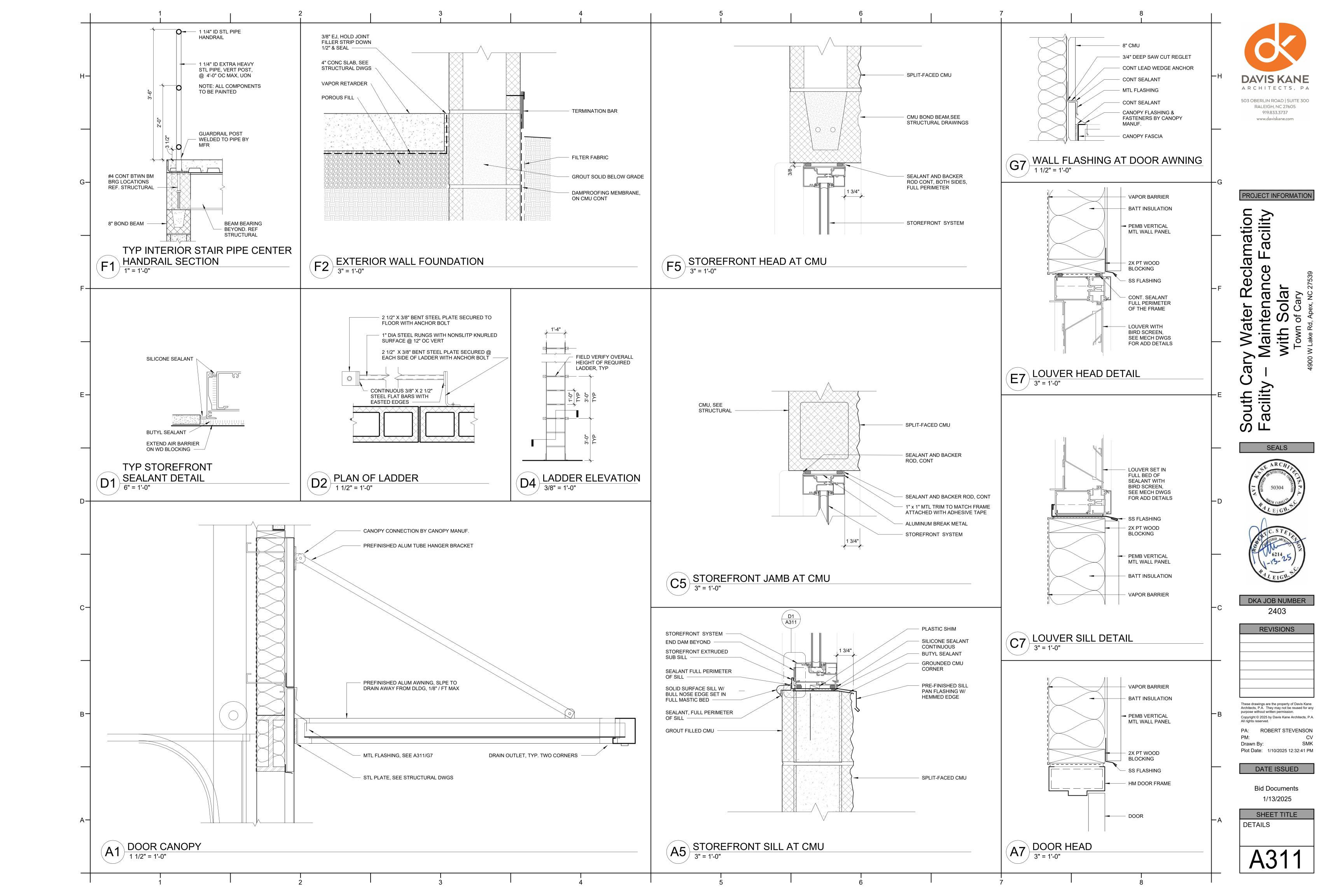


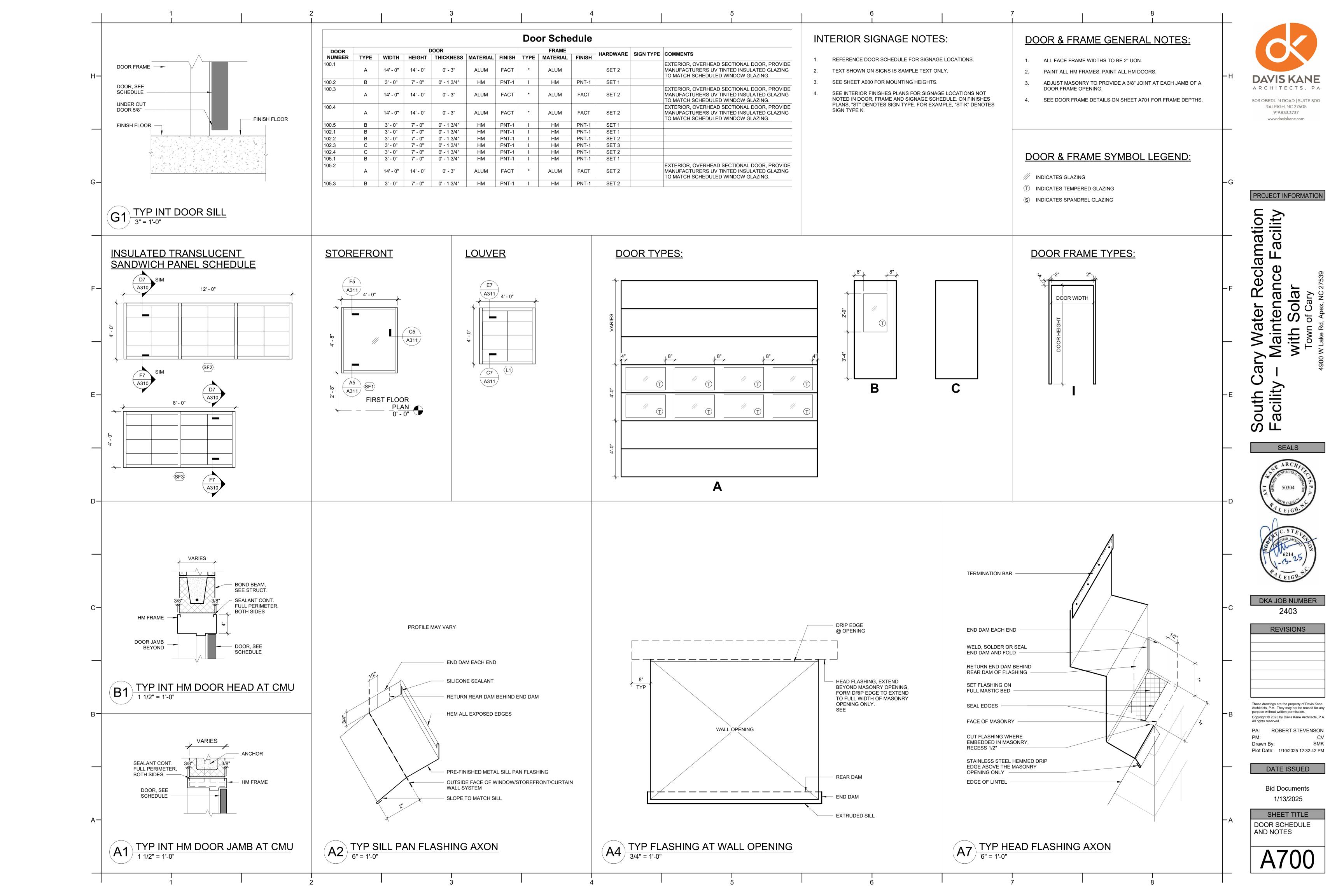


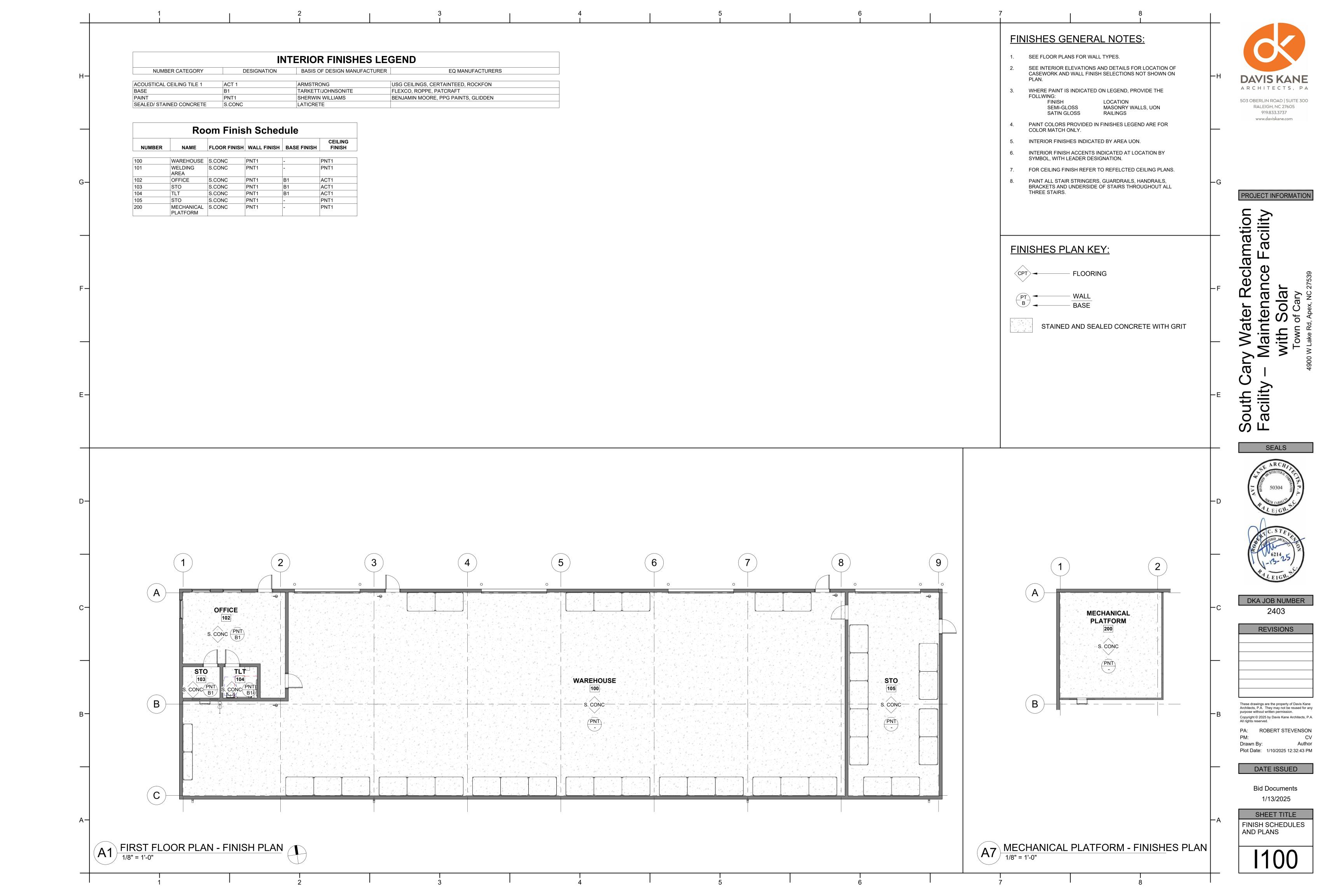












#### **GENERAL NOTES:** THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL

- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.
- THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- THESE STRUCTURAL DRAWINGS ARE ISSUED ON THE DATE INDICATED FOR THE PURPOSE DESIGNATED. THESE DRAWINGS MUST NOT BE ISSUED OR RELEASED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF THE STRUCTURAL ENGINEER OF
- DETAILS LABELED "TYPICAL DETAIL" WITHIN THE DOCUMENTS APPLY TO SITUATIONS ON THE PROJECT THAT MAY OCCUR THROUGHOUT THE PROJECT, SUCH DETAILS APPLY WHETHER OR NOT THE DETAIL IS SPECIFICALLY REFERENCED AT EACH INSTANCE. NOTIFY ENGINEER IF CLARIFICATIONS ARE REQUIRED REGARDING THE APPLICABILITY OF THE "TYPICAL DETAIL".
- DESIGN CRITERIA:

DESIGN CRITERIA:
CLASSIFICATION OF BUILDING
RISK CATEGORY
LIVE LOADS - UNIFORM:
SLAB ON GRADE
MEZZANINE
ROOF20 PSF
RAIN LOADS:
RAIN INTENSITY (15 MINUTE) 6.23 IN/HR
SNOW LOADS:
GROUND SNOW LOAD (Pg)
SLOPED ROOF LOAD (Ps)15 PSF
IMPORTANCE FACTOR (Ís)
THERMAL FACTOR (Ct)
EXPOSURE FACTOR (Ce) 1.0
WIND LOADS:  BASIC WIND SPEED (Vult)
BASIC WIND SPEED (Vult) 115 MPH ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) 2 90 MPH
EXPOSURE CATEGORY
INTERNAL PRESSURE COEFFICIENT ±0.18
COMPONENT AND CLADDING PRESSURES:
WALLS, ZONE 5 (10 SF) 43 PSF

MEZZANINE ULTIMATE WIND BASE SHEARS (FOR MWFRS):

SEISMIC RESPONSE COEFFICIENT (Cs) \_ . . . . \_ 0.05 ULTIMATE SEISMIC BASE SHEAR (V) \_ . . . . . 2 KIPS

VN-S...... 3 KIPS

\_\_\_\_D

1.0

S<sub>M1-</sub> . . . . . . . . . . . . . . . . . 0.192

S<sub>D1-</sub> . . . . \_ \_0.128

REINFORCED MASONRY

INTERMEDIATE

**EQUIVALENT LATERAL FORCE** 

84 PSF

ROOF, ZONE 3 (10 SF)

SPECTRAL RESPONSE ACCELERATIONS:

LATERAL FORCE RESISTING SYSTEM \_

SITE CLASSIFICATION \_

IMPORTANCE FACTOR (IE)

ANALYSIS PROCEDURE

#### FOUNDATION NOTES:

MEZZANINE:

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE INVESTIGATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY FALCON ENGINEERING DATED JUNE 6, 2024
- FOUNDATIONS HAVE BEEN DESIGNED FOR A NET ALLOWABLE SOIL BEARING PRESSURE OF 1,500 PSF.
- FOOTING BEARING ELEVATIONS MUST BE A MINIMUM DEPTH OF -2' 0" BELOW LOWEST ADJACENT SOIL GRADE.
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL TESTING AGENCY WHERE UNSATISFACTORY SOILS
- CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS, INUNDATION AND LONG TERM, EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

#### CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- 2. CONCRETE MUST BE NORMAL WEIGHT UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT) AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS: **FOOTINGS AND PIERS** SLAB-ON-GRADE 4,000 PSI
- 3. LIGHTWEIGHT CONCRETE MUST HAVE A DRY UNIT WEIGHT OF NOT LESS THAN 110 PCF AND NOT MORE THAN 116 PCF AFTER 28 DAYS WITH 4% TO 7% ENTRAINED AIR.

4,000 PSI LW

4. REINFORCING MATERIALS MUST BE AS FOLLOWS:

C. SUPPORTED FLOOR SLABS

- REINFORCING BARS ASTM A615, GRADE 60, DEFORMED. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL

#### **CONCRETE MASONRY NOTES:**

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) 530.
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT
- COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, f'm, MUST BE 2,000 PSI
- MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
- PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
- PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI, WITH AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
- REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1
- ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE "TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS.
- ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #5 VERTICAL BARS AT 48 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED.
- 10. PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS.
- 11. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS

#### STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN NSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
- 2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
- STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A36, Fy = 36 KSI
- STRUCTURAL STEEL W-SHAPES ASTM A992, Fy = 50 KSI
- ANCHOR RODS ASTM F1554, GRADE 55
- HIGH STRENGTH BOLTS ASTM A325 (TYPICAL UON)
- WASHERS ASTM F436 NUTS - ASTM A563
- UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE
- 4. UNLESS OTHERWISE NOTED. BEAM CONNECTIONS MUST BE AISC "SIMPLE SHEAR CONNECTIONS" WITH ASTM A325 BOLTS DESIGNED FOR ONE HALF THE MAXIMUM TOTAL UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS GIVEN IN TABLE 3-6 OF THE "STEEL CONSTRUCTION MANUAL."
- 5. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS OF "DELEGATED DESIGN" CONNECTIONS
- FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED
- HIGH STRENGTH BOLTS MUST BE FULLY PRETENSIONED USING LOAD INDICATOR WASHERS OR TENSION CONTROL "TWIST OFF" BOLTS.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN LINI ESS OTHERWISE NOTED PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.
- 9. COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- 10. STRUCTURAL STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.
- 11. HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING: ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR
- WALLS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
- ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS
- 12. STEEL MEMBERS MUST BE SPLICED ONLY WHERE INDICATED.

#### STEEL DECK NOTES:

- STEEL DECK MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI), "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND THE STEEL DECK INSTITUTE (SDI), "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS,
- 2. STEEL DECK INSTALLATION MUST COMPLY WITH THE FOLLOWING:
  - COMPOSITE DECK: 2" x 20 GAGE GALVANIZED. UNLESS OTHERWISE NOTED, ATTACH DECK TO SUPPORTS WITH 5/8 INCH DIAMETER PUDDLE WELDS AT 12 INCHES ON CENTER. FASTEN SIDELAPS WITH #10 SELF-TAPPING HEX HEAD SCREWS AT 1/3 POINTS BETWEEN SUPPORTS. FASTEN EDGEMOST DECK PANEL TO STEEL FRAMING WITH 5/8 INCH DIAMETER PUDDLE WELDS AT SAME SPACING AS SIDELAP FASTENERS.
- 3. STEEL DECK MUST BE INSTALLED PERPENDICULAR TO SUPPORTS AND MUST HAVE A MINIMUM OF THREE CONTINUOUS SPANS. ENDLAPS MUST ONLY OCCUR AT SUPPORTS
- 4. WELDING MUST BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
- 5. STEEL DECK SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST BE GALVANIZED.
- SHEAR CONNECTORS FOR COMPOSITE FLOOR SYSTEMS MUST BE 3/4 INCH DIAMETER HEADED STUDS CONFORMING WITH ASTM A108, GRADE 1015 OR 1020. PROVIDE HEADED STUDS AS SHOWN ON PLANS AND DETAILS. NET IN-PLACE LENGTH MUST BE 1 1/2 INCHES ABOVE TOP OF COMPOSITE STEEL DECK.
- 7. CONDUIT AND PIPING MUST NOT BE PLACED IN ELEVATED SLABS.



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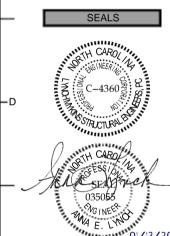
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SHEET TITLE GENERAL NOTES

Structural Engineers 1701 N Graham Street, Suite 103 Charlotte, NC 28206 919.782.1833 - lynchmykins.com LM Project Number: LM24.031

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## PRE-ENGINEERED METAL BUILDING SYSTEM NOTES:

- METAL BUILDING SYSTEM MUST BE IN ACCORDANCE WITH THE METAL BUILDING MANUFACTURERS ASSOCIATION (MBMA) "DESIGN PRACTICES MANUAL."
- 2. THE PRE-ENGINEERED BUILDING MANUFACTURER WILL BECOME THE ENGINEER OF RECORD FOR HIS WORK AND SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF METAL BUILDING SYSTEMS. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE A SUMMARY OF CONTROLLING LOAD CASE FOR EACH LOCATION.

- B. COLLATERAL LOADS......12 PSF (7 PSF + 5 PSF FOR SOLAR PV ARRAY)
- 4. DESIGN OF THE STRUCTURE SHALL BE PERFORMED SO AS TO NOT EXCEED THE DESIGN LOADS SHOWN BELOW. RE-DESIGN OF THE FOUNDATIONS TO ACCOMODATE LOADS GREATER THAN THOSE SHOWN WILL BE AT THE MANUFACTURER'S EXPENSE.
- 5. THE ASSUMED DESIGN REACTIONS USED ARE ALLOWABLE STRESS DESIGN (ASD) AND ARE AS FOLLOWS:

COLUMN GRID	GRAVITY (KIPS)	UPLIFT (KIPS)	SHEAR (KIPS)
A PORTAL FRAMES	20	25	10
B PORTAL FRAMES	20	25	10
1	25	20	10
2	25	20	10
3	25	20	10
4	25	20	10
5	25	20	10
6	25	20	10
7	25	20	10
8	25	20	10
9	25	20	10

- 6. THE CONTRACTOR MUST BE RESPONSIBLE FOR THE COORDINATION AND COSTS ASSOCIATED WITH A CONTRACTOR INITIATED CHANGE IN BUILDING MODEL OR MANUFACTURER, INCLUDING CONSTRUCTION COSTS AND RE-ENGINEERING COSTS.
- 7. ANCHOR BOLTS AND EMBEDDED ITEMS REQUIRED TO ANCHOR THE BUILDING FRAME AND SKIN TO THE CONCRETE FOUNDATIONS AND MASONRY WALLS SHALL BE SPECIFIED BY THE PRE-ENGINEERED BUILDING MANUFACTURER WITH DRAWINGS INDICATING LOCATIONS AND REQUIREMENTS. CONTRACTOR TO COORDINATE FURNISHING AND INSTALLING OF THESE MATERIALS WITH PRE-ENGINEERED BUILDING MANUFACTURER.

#### SHOP DRAWINGS AND SUBMITTALS:

- 1. THESE DRAWINGS SHALL BE CHECKED AND COORDINATED WITH
  OTHER MATERIALS AND CONTRACTS BY THE GENERAL CONTRACTOR.
  SHOP DRAWINGS AND SUBMITTALS MUST BEAR THE CONTRACTOR'S
  REVIEW STAMP WITH CHECKER'S INITIALS BEFORE BEING SUBMITTED
  TO THE ARCHITECT FOR APPROVAL.
- 2. WHEN THE FABRICATOR HAS BEEN AUTHORIZED TO USE THE ARCHITECT'S AND / OR ENGINEER'S DRAWINGS AS ERECTION DRAWINGS, THE FABRICATOR MUST REMOVE ALL TITLE BLOCKS, PROFESSIONAL SEALS, AND ANY OTHER REFERENCE TO THE ARCHITECT AND / OR ENGINEER FROM THAT ERECTION DRAWING.

#### **ABBREVIATIONS**

AFF	ABOVE FINISHED FLOOR	KCJ	KEYED CONSTRUCTION JOINT
ARCH	ARCHITECT	Ld	REBAR TENSION
BD	BAR DIAMETER	1.4.	DEVELOPMENT LENGTH
BF BEJ	BRACED FRAME BUILDING EXPANSION JOINT	Ldc	REBAR COMPRESSION DEVELOPMENT LENGTH
BLDG	BUILDING	Ldh	HOOKED REBAR TENSION
BM	BEAM OF DECK	Lo	DEVELOPMENT LENGTH REBAR TENSION SPLICE
BOD BOS	BOTTOM OF DECK BOTTOM OF STEEL	Ls	LENGTH
BOT, B	BOTTOM	Lsc	REBAR COMPRESSION SPLICE
BRG	BEARING		LENGTH LOW
BTWN C TO C	BETWEEN CENTER TO CENTER	L LLH	LONG LEG HORIZONTAL
CFMF	COLD-FORMED METAL	LLV	LONG LEG VERTICAL
0.1	FRAMING	LSH	LONG SIDE HORIZONTAL
CJ CL	CONTROL JOINT CENTERLINE	LSV LTWT	LONG SIDE VERTICAL LIGHTWEIGHT
CLR	CLEAR	LWC	LIGHTWEIGHT CONCRETE
CMU	CONCRETE MASONRY UNIT	MAS	MASONRY
COL CONC	COLUMN CONCRETE	MATL MAX	MATERIAL MAXIMUM
CONN	CONNECTION	MECH	MECHANICAL
CONSTR	CONSTRUCTION	MF	MOMENT FRAME
CONT COORD	CONTINUOUS COORDINATE	MFR MID	MANUFACTURER MIDDLE
CTR	CENTER	MIN	MINIMUM
CTRD	CENTERED	MOD	MODIFY
DBA DBL	DEFORMED BAR ANCHOR DOUBLE	MOS NOM	MIDDEPTH OF SLAB NOMINAL
DC	DIAPHRAGM CHORD	NS	NEAR SIDE
DCJ	DOWELED CONSTRUCTION	NTS	NOT TO SCALE
DIA, Ø	JOINT DIAMETER	OC OPH	ON CENTER
DIST	DISTANCE	OPNG	OPPOSITE HAND OPENING
DJ	DOUBLE JOIST	PAF	POWDER ACTUATED
DWGS EA	DRAWINGS EACH	PAR	FASTENER
EF	EACH FACE	PC	PARALLEL PIECE
EJ	EXPANSION JOINT	PEMB	PRE-ENGINEERED METAL
EL ELEV	ELEVATION ELEVATOR	PEN	BUILDING
EMBED	EMBEDMENT	PERP	PENETRATE, PENETRATION PERPENDICULAR
EOD	EDGE OF DECK	PL	PLATE
EOS EQ	EDGE OF SLAB EQUAL	PT	POST-TENSIONED (CONC)
EW	EACH WAY	R	PRESSURE TREATED (WOOD) RADIUS
EXIST	EXISTING	REF	REFERENCE, REFER TO
EXP EXT	EXPANSION EXTERIOR	REINF	REINFORCE, REINFORCED,
FD	FLOOR DRAIN	REQD	REINFORCING
FDN	FOUNDATION		REQUIREMENTS
FO FF EL	FACE OF FINISHED FLOOR	SCHED SF	SCHEDULE STEPPED FOOTING
	ELEVATION	SGB	STEPPED GRADE BEAM
FIN FIN FLR	FINISH FINISHED FLOOR	SIM SJ	SIMILAR SAWED JOINT
FOB	FACE OF BUILDING	SL	SLOPE
FOC	FACE OF CONCRETE	SOG	SLAB-ON-GRADE
FOM	FACE OF MASONRY	SPF	SIDEPLATE FRAME
FOS FRMG	FACE OF SLAB/ STUD FRAMING	STD STIFF	STANDARD STIFFENER
FTG	FOOTING	TBE	TRUSS BEARING ELEVATION
FS .	FAR SIDE FIELD VERIFY	T&B T&G	TOP & BOTTOM
FV, ± GALV	GALVANIZED	THK	TONGUE AND GROOVE THICKNESS
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GEN	GENERAL	TOF	TOP OF FOOTING
GR BM H	GRADE BEAM HIGH	TOM TOCP	TOP OF MASONRY TOP OF CONCRETE PEDESTAL
HK	HOOK	TOS TS	TOP OF STEEL
HORIZ	HORIZONTAL	TS/STR	THICKENED SLAB
HSS	HOLLOW STRUCTURAL SECTION	TYP UON	THICKENED SLAB AT STAIR TYPICAL
HSA	HEADED STUD ANCHOR	VERT	UNLESS OTHERWISE NOTED
HT	HEIGHT	W/	VERTICAL
HVY INT	HEAVY INTERIOR	WP WSP	WITH WORKING POINT
JBE	JOIST BEARING ELEVATION	WWR	WOOD STRUCTURAL PANEL(S)
JT	JOINT		WELDED WIRE REINFORCING

**JOINT** 

KEYED CONSTRUCTION

#### DRAWINGS LEGEND

т	GENERAL ANNOTATIONS		
	SECTIONS		
	SECTION/DETAIL NUMBER/LETTER		
	$\left(\frac{X}{SX}\right)$ = SECTION/DETAIL MARK		
E	SHEET NUMBER WHERE SECTION/DETAIL MARK IS DRAWN		
	COLUMNS		
	(GRID) = COLUMN GRID MARK		
	GENERAL PLANS		
	X = PLAN KEY NOTE MARK		
	= CHANGE IN SLOPE		
	_SL = DIRECTION OF SLOPE		
	SHALLOW FOUNDATIONS		
	= SLAB-ON-GRADE JOINT		
	WFX = WALL FOOTING MARK		

(-X'-X")

X'-X"

	ELEVATIONS
	FOUNDATIONS
=	TOP OF FOOTING ELEVATION  MEASURED FROM REFERENCED  FINISHED FLOOR ELEVATION = 0'-0"
=	TOP OF SLAB ELEVATION MEASURED FROM REFERENCED FINISHED FLOOR ELEVATION = 0'-0"

= COLUMN FOOTING MARK

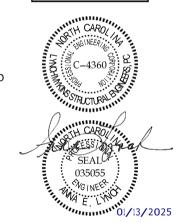


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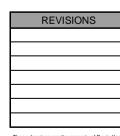
South Cary Water Reclamation Facility – Maintenance Facility with Solar

Town of Cary W Lake Rd, Apex, NC 2

SEALS



DKA JOB NUMBER 2403



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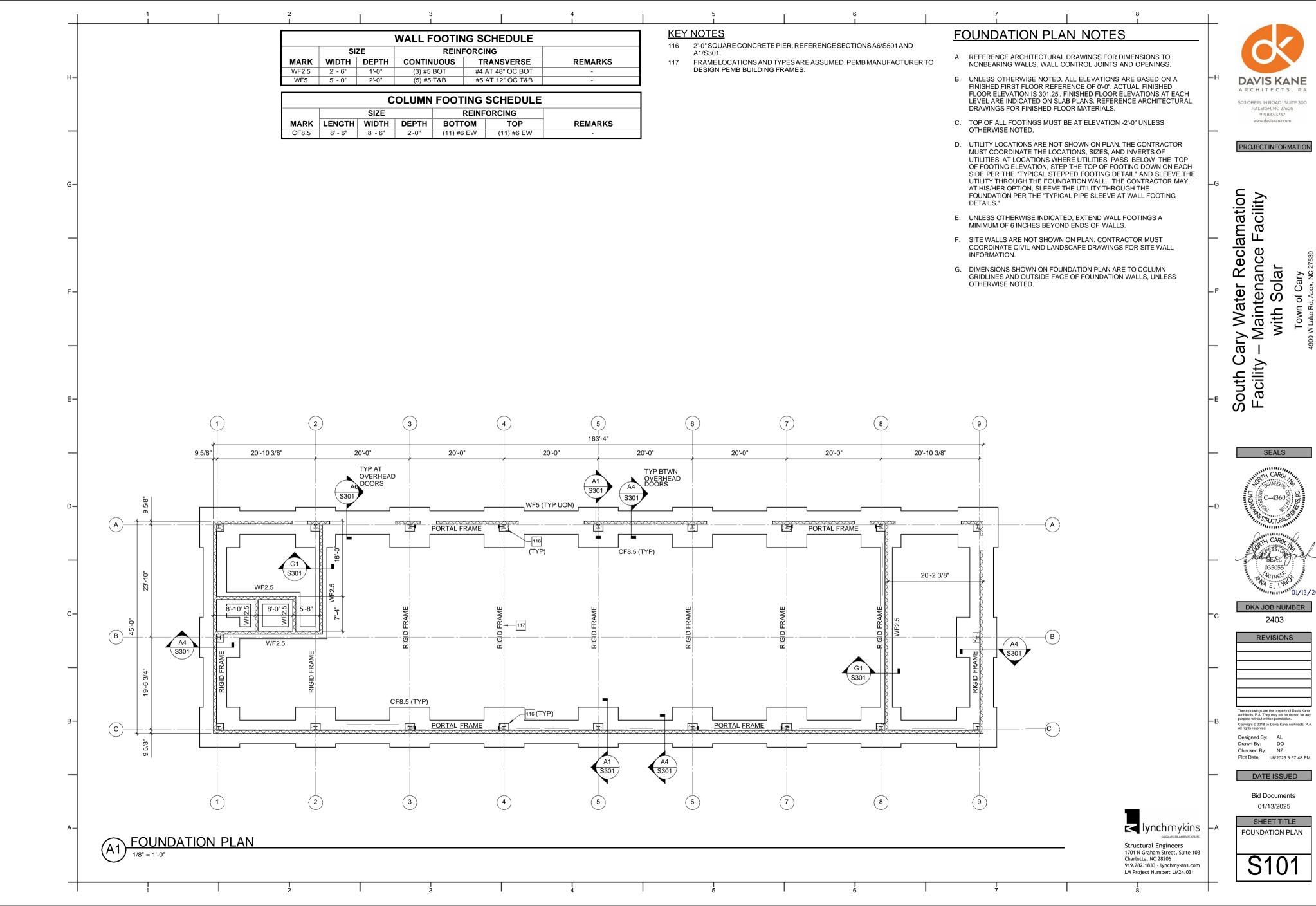
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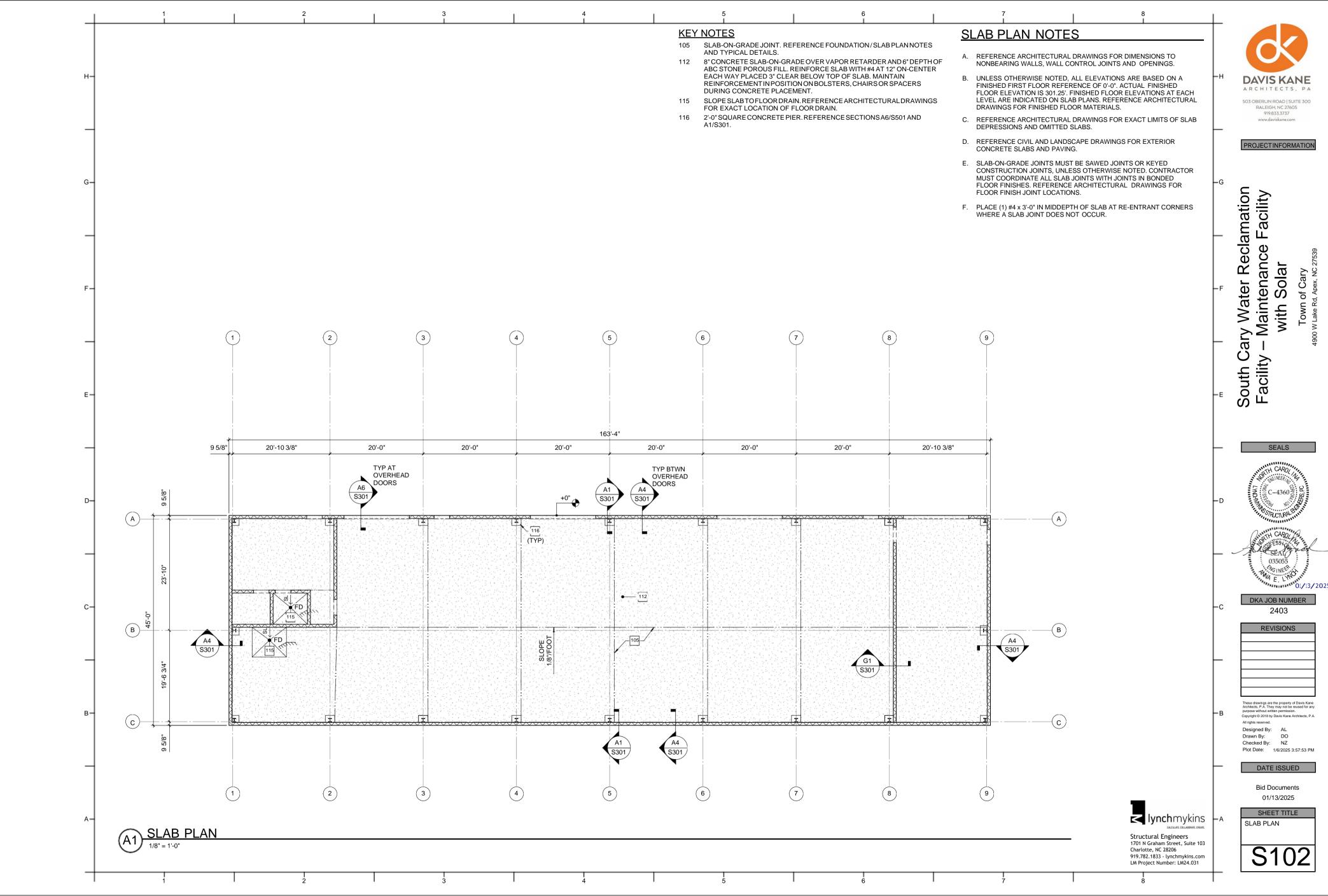


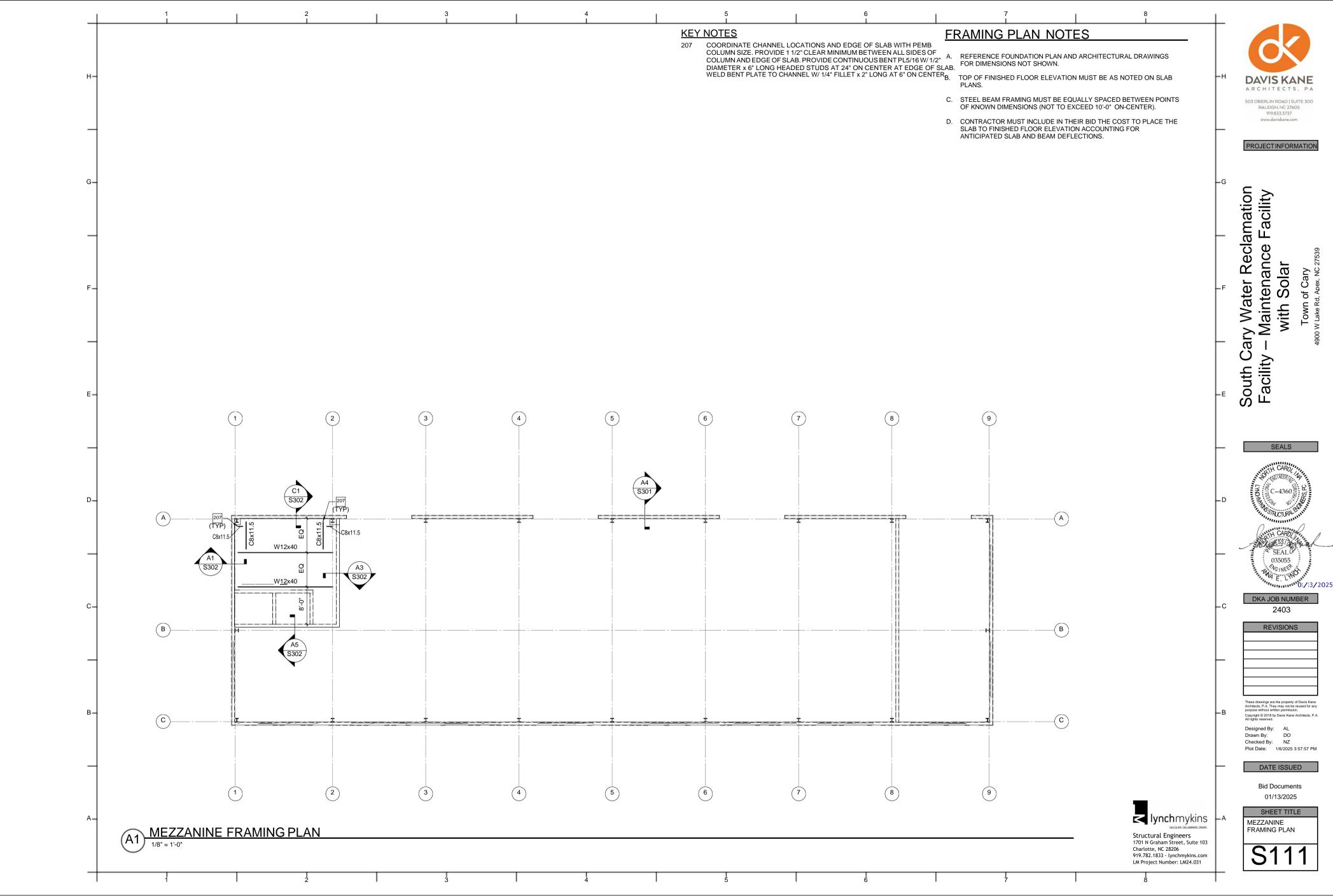
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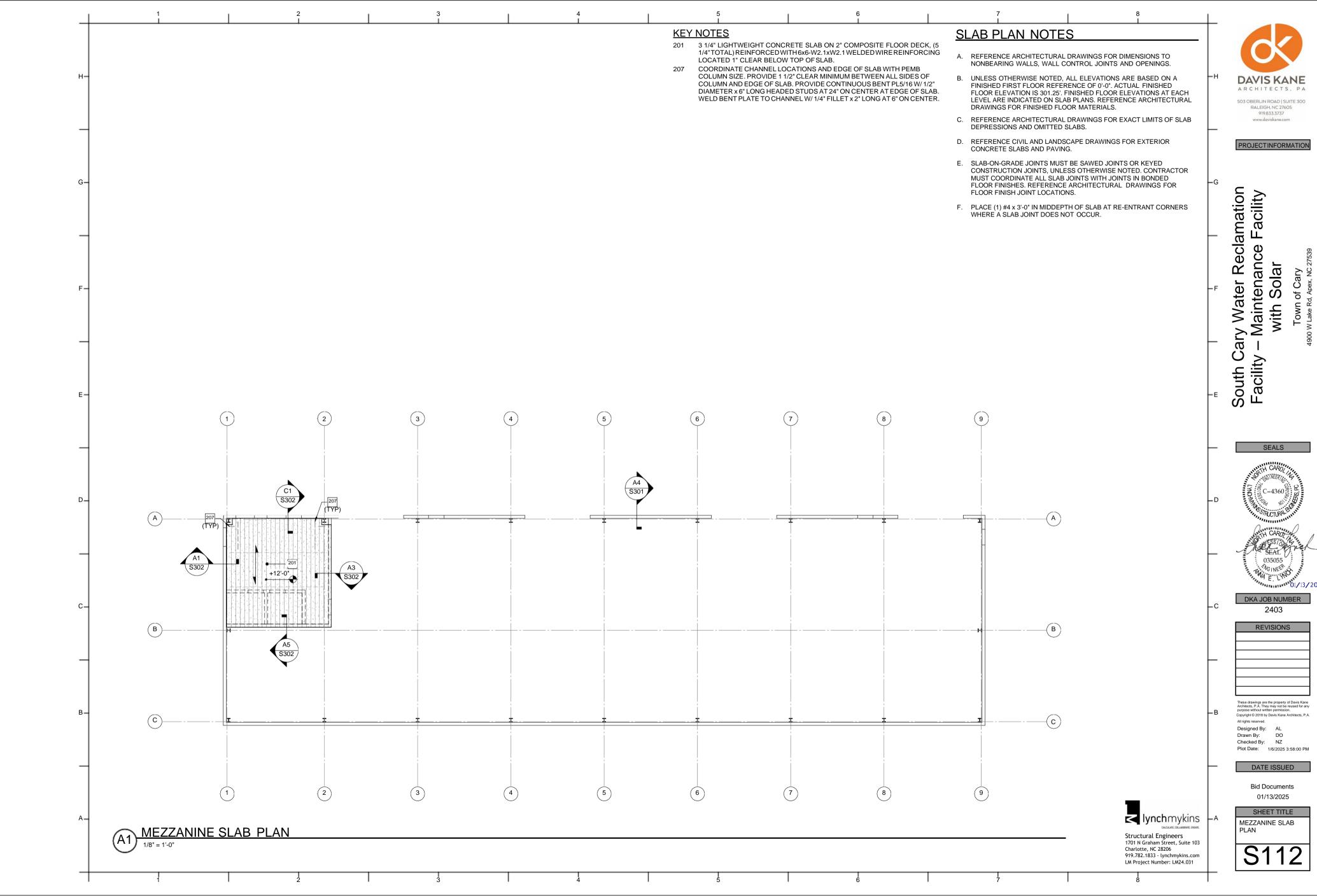
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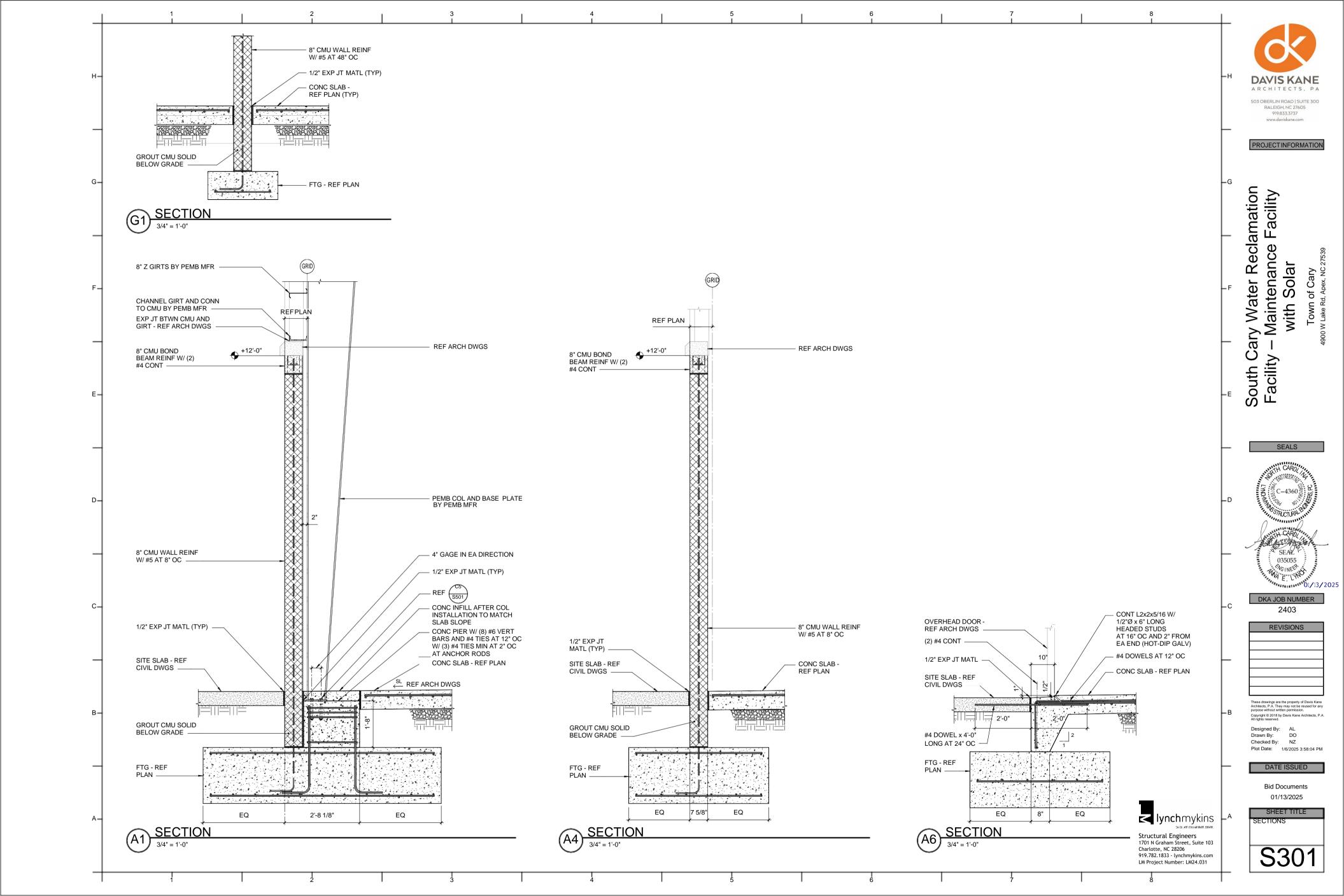
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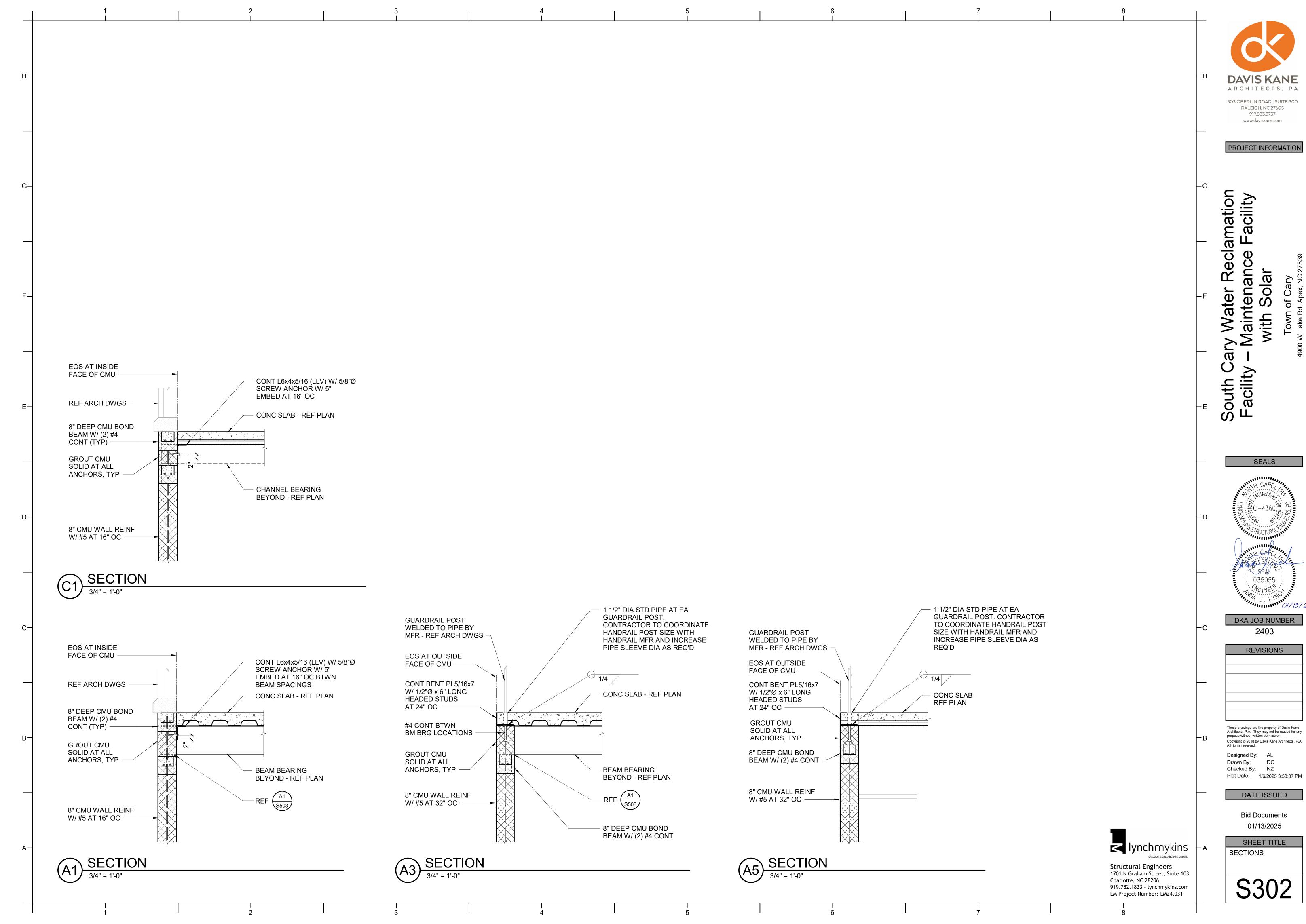










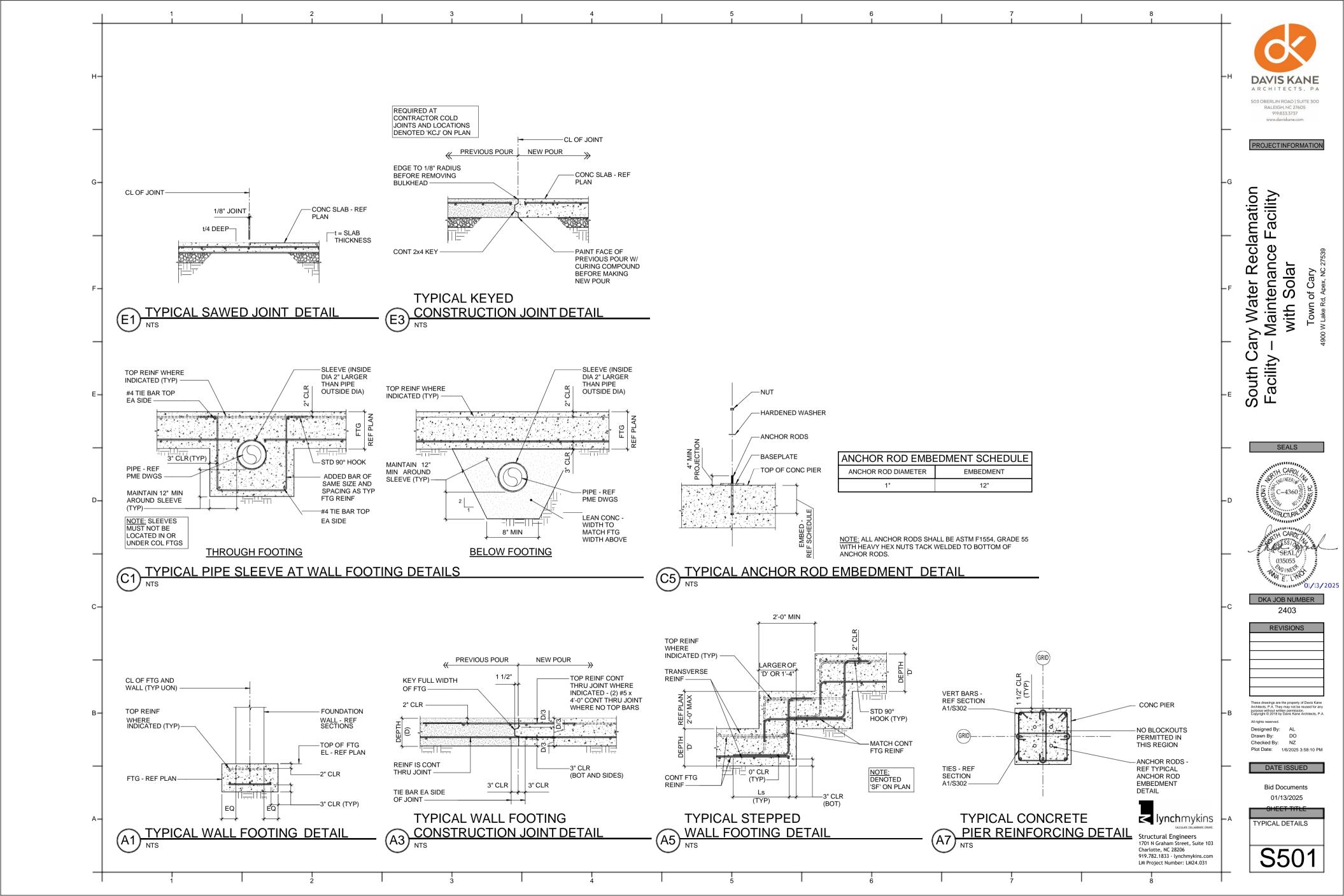


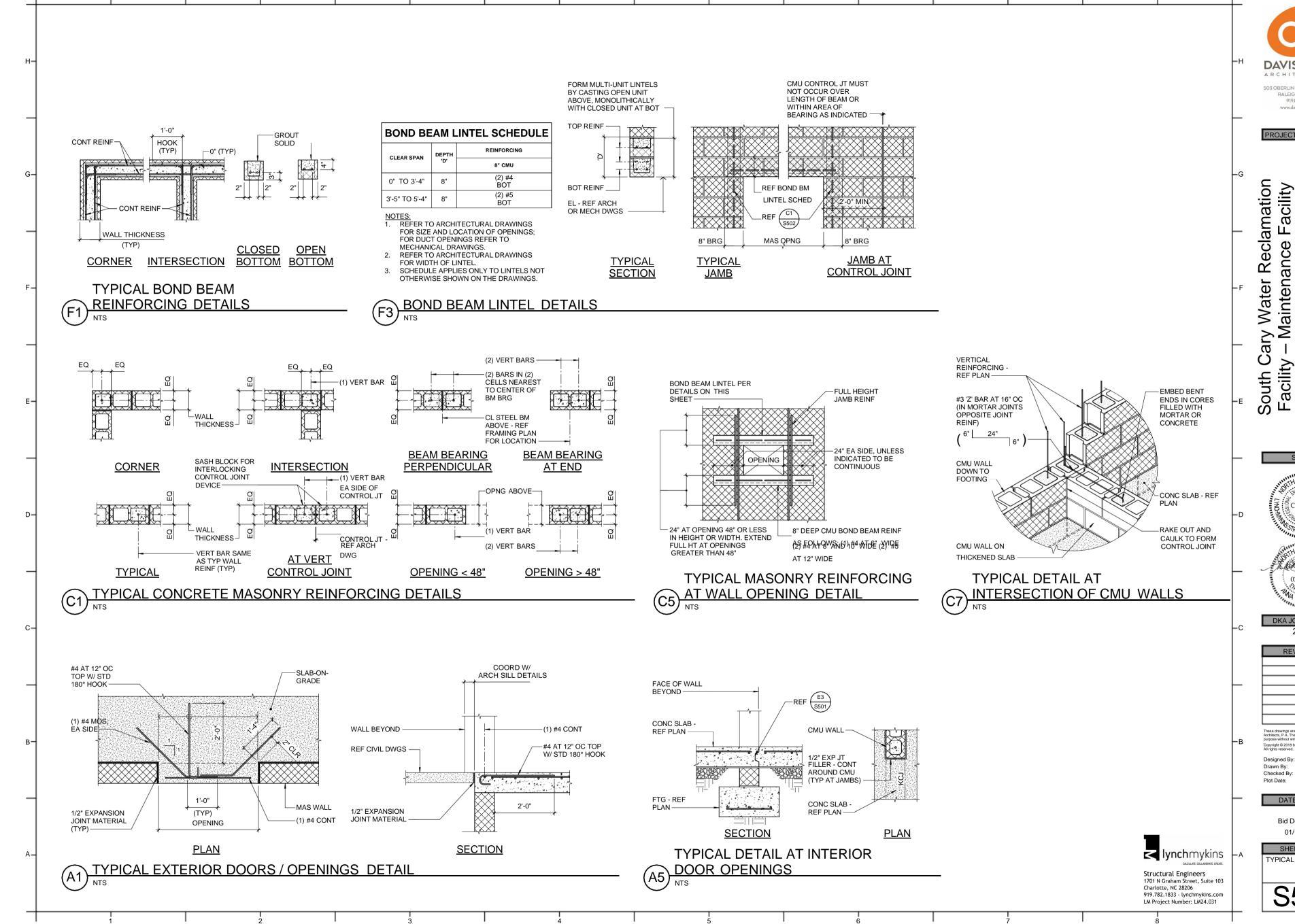
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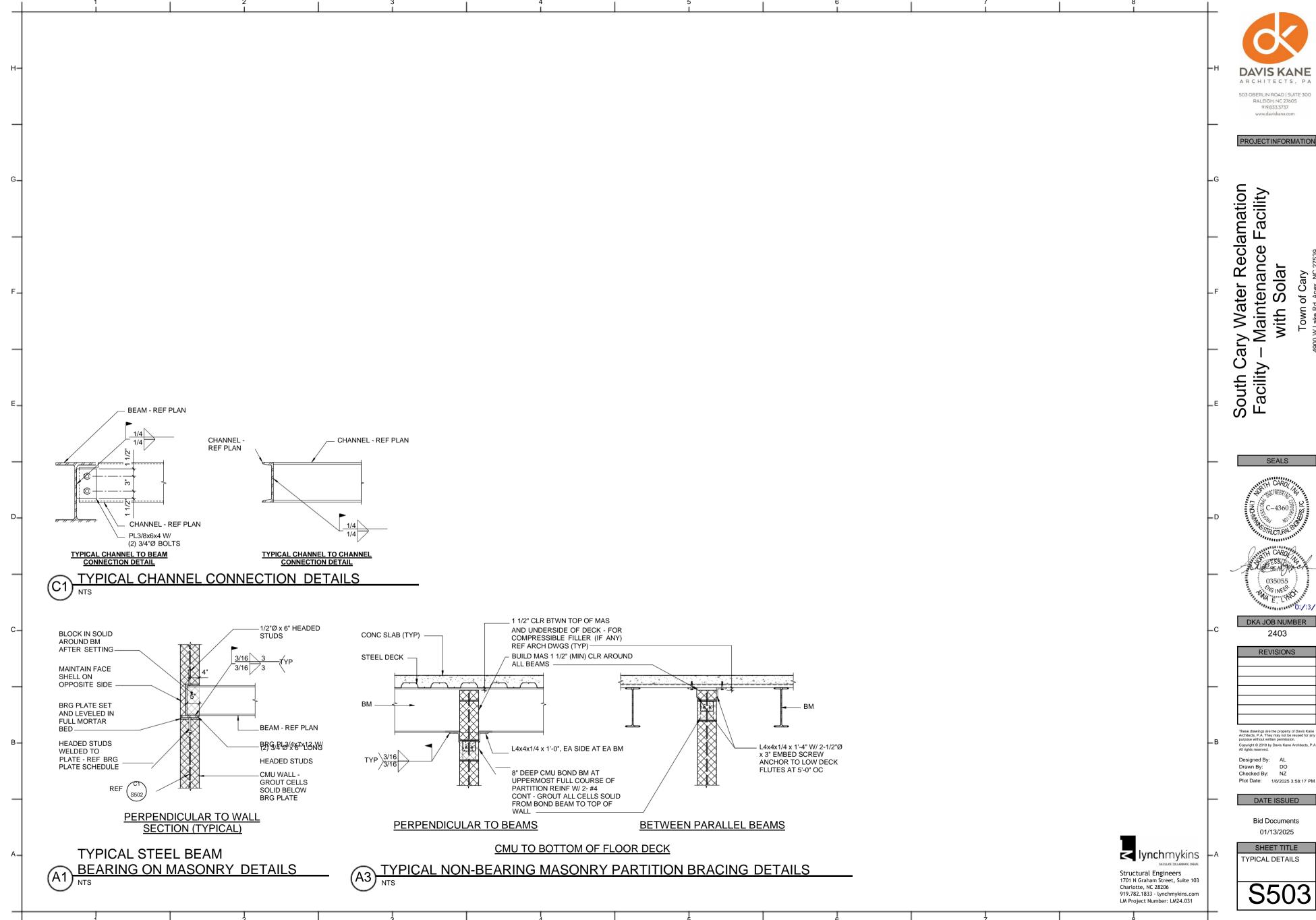
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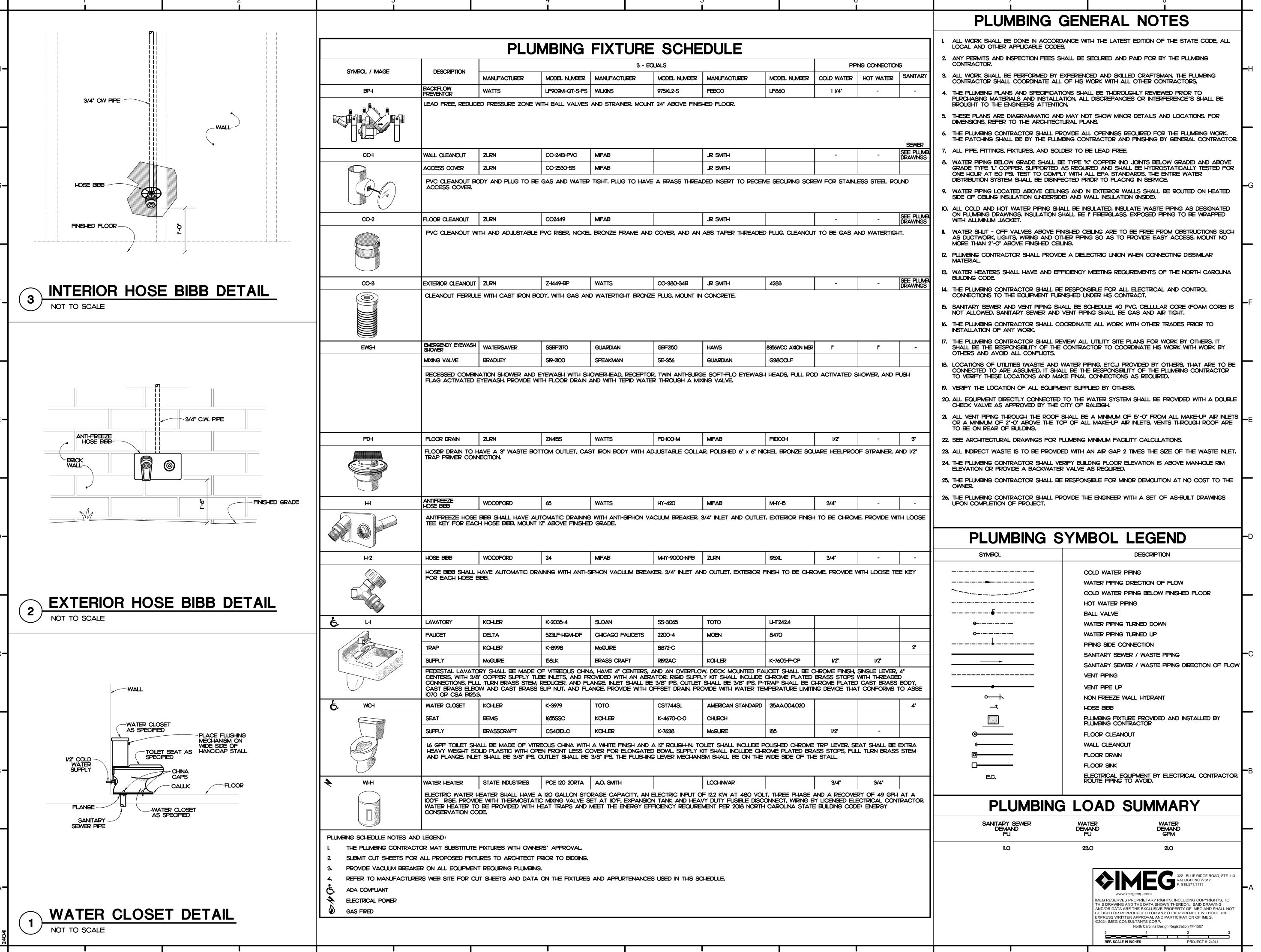
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**REVISIONS** 

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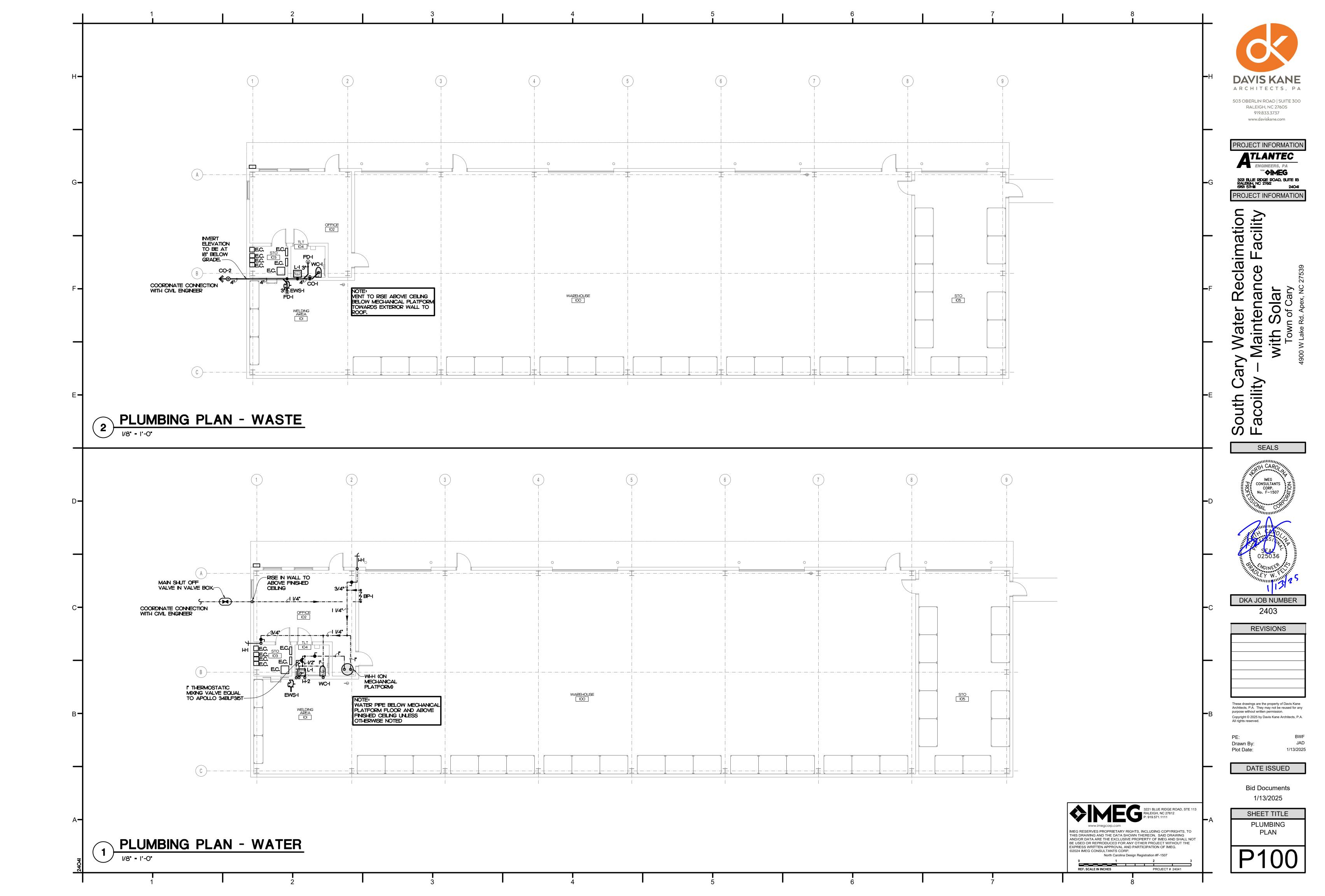
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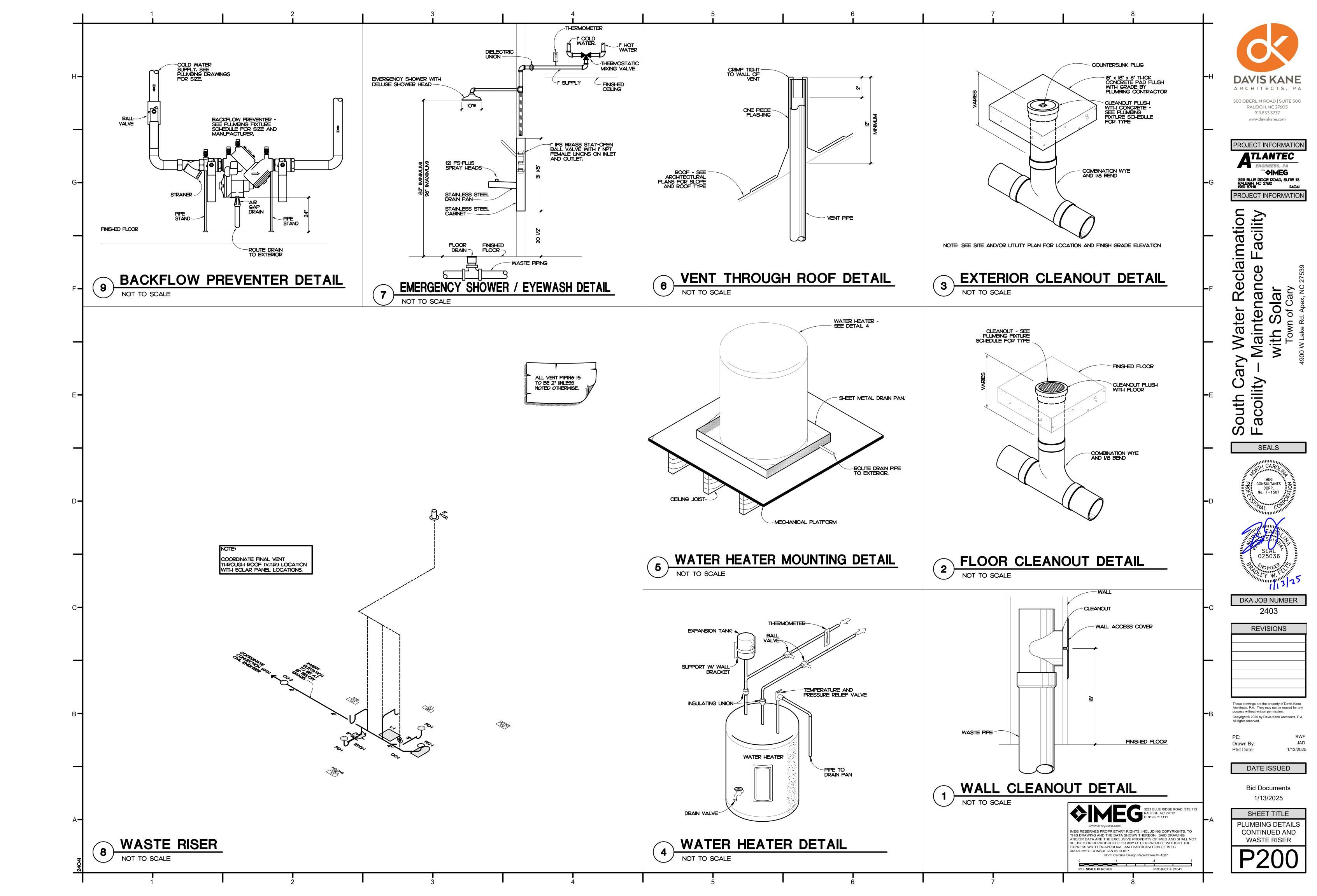
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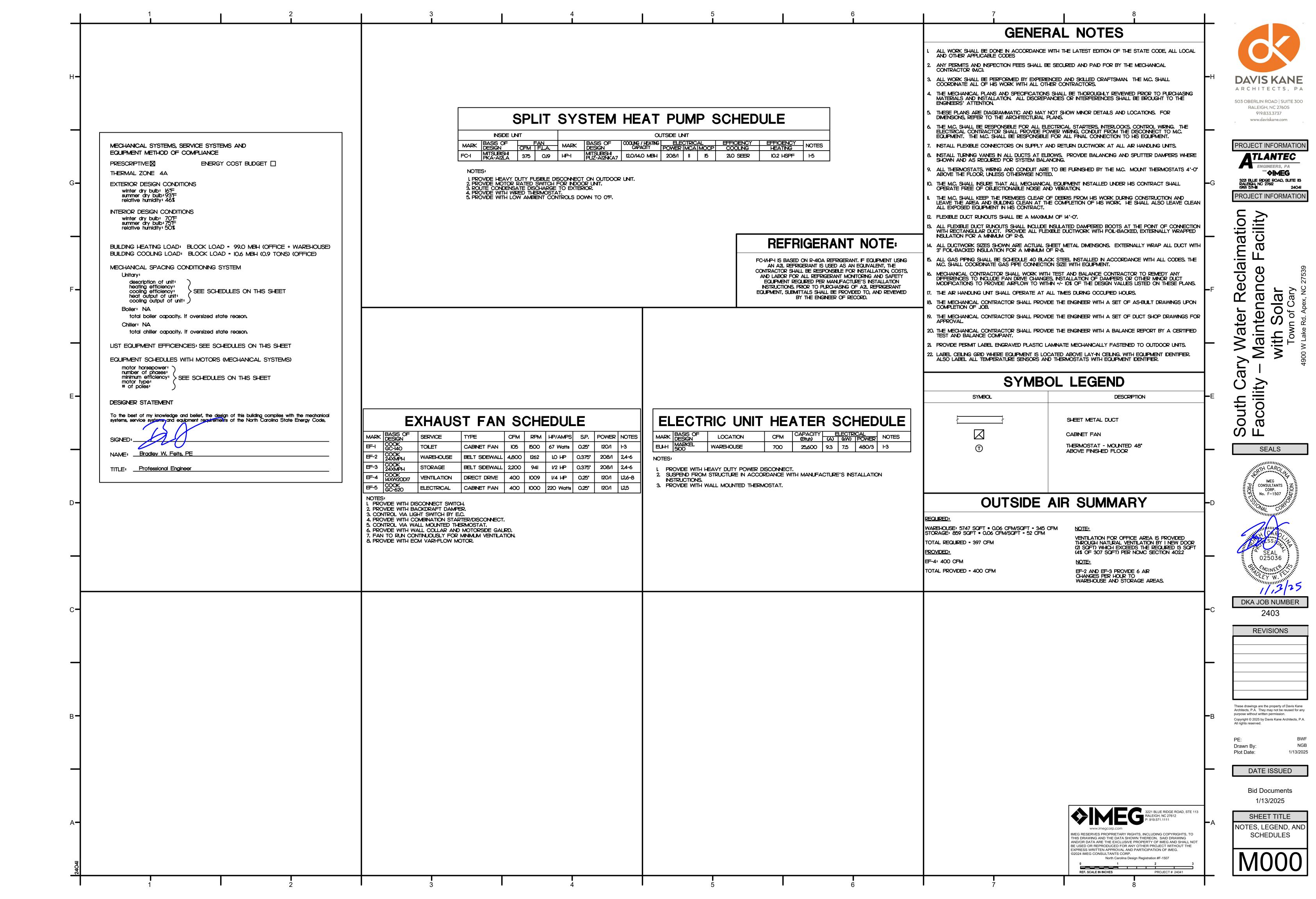
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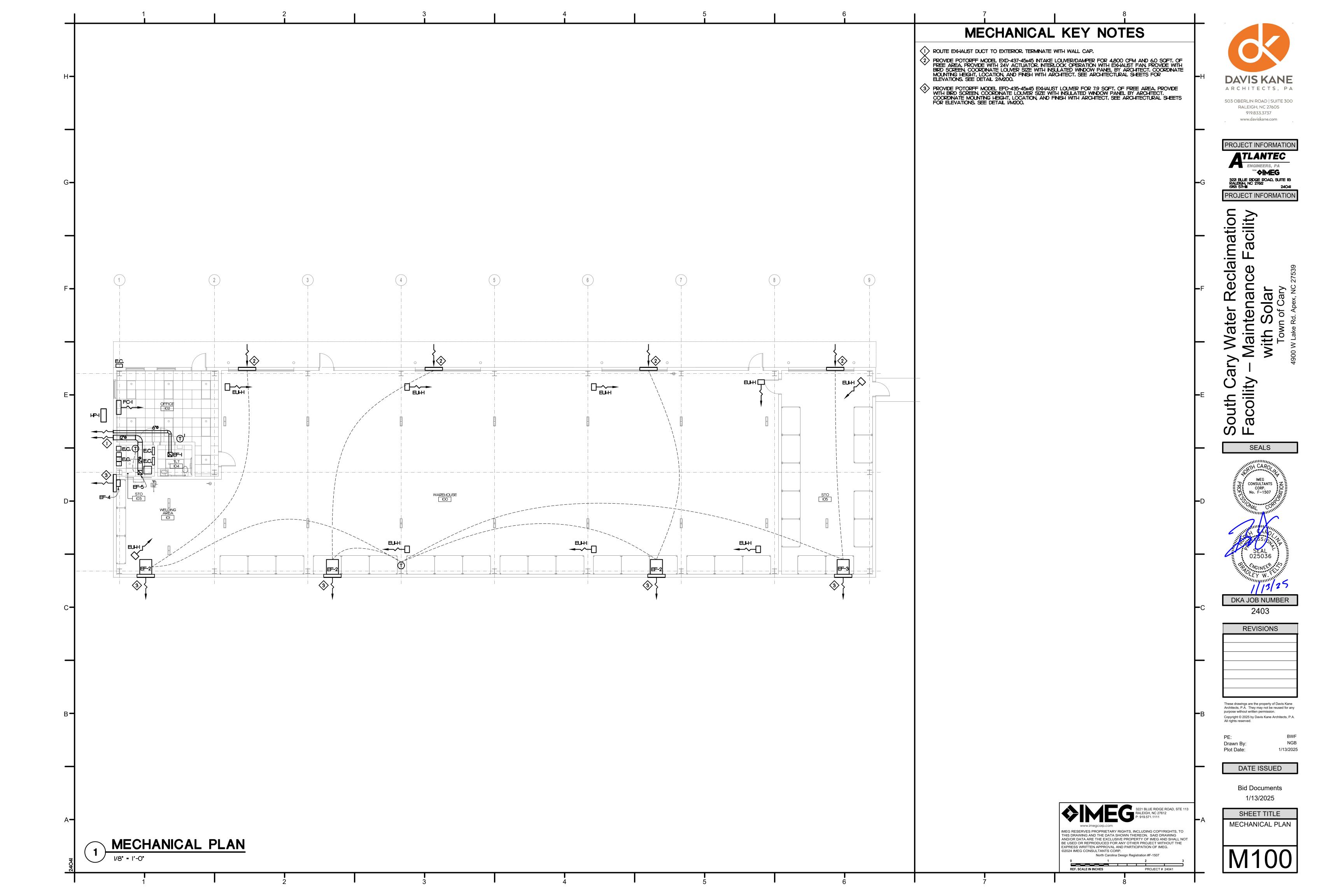
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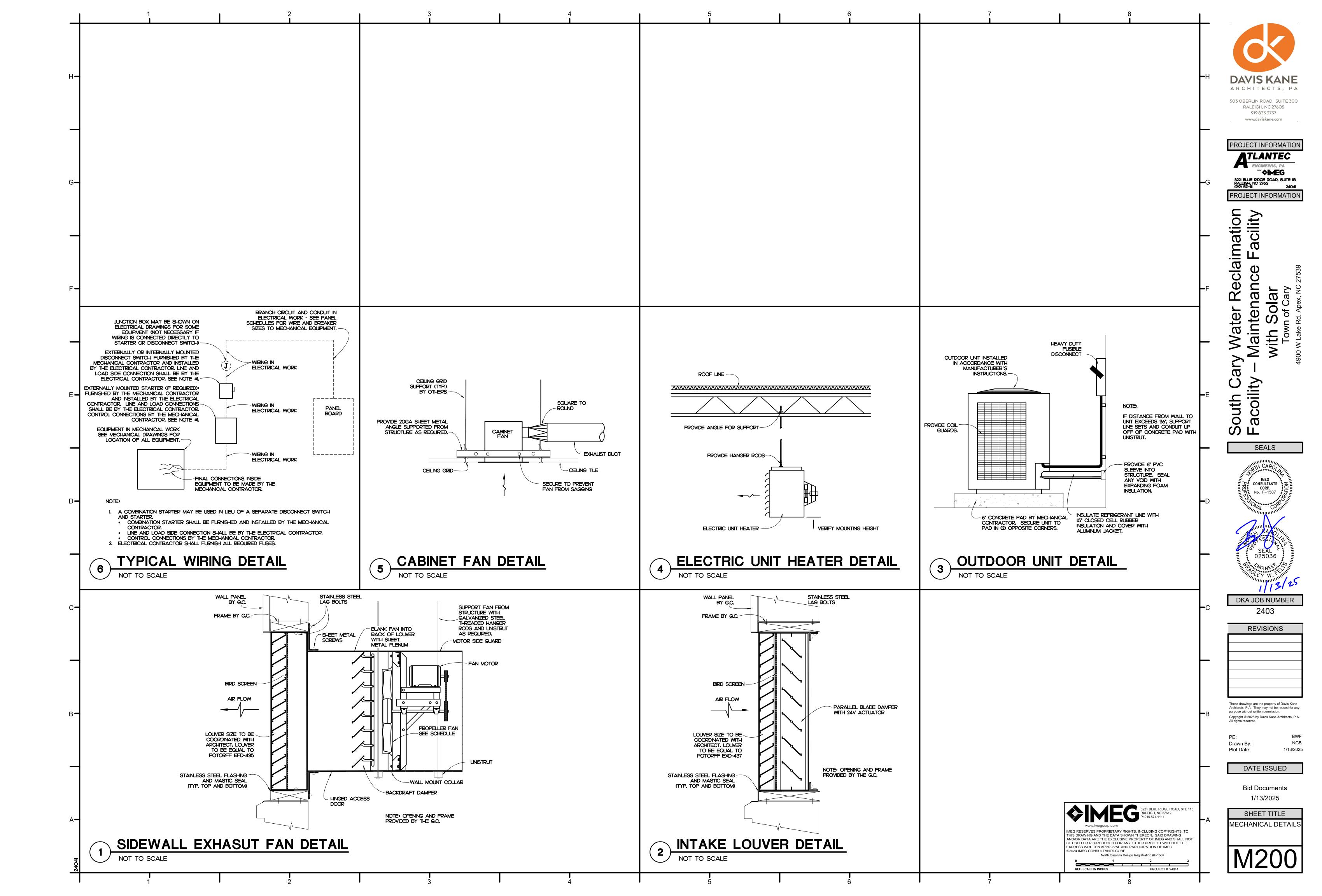
PLUMBING NOTES LEGEND, DETAILS & FIXTURE SCHEDUL











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MILE MOUNTED COLDENCY SPECD SWITCH PROSED FROM SPECIAL MACH MACH AT AFFE THESES NOT DID CHEMSE. SOURCE OF CONTITUOR.  CELLING WILDHIS COLD PARCY SPECD, PLASSING I PRABED WITH DATURATT SPECOW CONTITUOR OF CONTITUOR SECURIOR STATE AND	1	SEQ	SINGLE POLE TOGGLE SWITCH FOR EQUIPMENT DISCONNECT.	HUBBELL 1221-** WITH	
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WALL MOUNTED COCUPANCY SELECTIONS  WALL MOUNTED COCUPANCY SENER PASSING PASSING PARABED WITH DATUST  SOUNDWOVAD OF 2000/WOVATOR AMERICAN RECOTTANCE  SPECIFICATION ROADE LANGE AMERICAN RECOTTANCE  SPECIFICATION ROADE LANGE AMERICAN RECOTTANCE  SPECIFICATION ROADE LANGE MESSING RECOTTANCE  SPECIFICATION ROADE LANGE RESISTANT FOR DECEPTACLE  SECRETARION ROADE LANGE PASSING ROADE  SPECIFICATION ROADE LANGE PASSING ROADE  WE'B  SPECIFICATION ROADE CAND THE SESSIANT WEATHER RESISTANT AND  WITHOUT IS AFF. INJESS OFFENSIS NOTED  SPECIFICATION ROADE CAND THE SESSIANT FOR COCURD.  WITHOUT IS AFF. INJESS OFFENSIS NOTED  SPECIFICATION ROADE CAND THE SESSIANT FOR COCURD.  WITHOUT IS AFF. INJESS OFFENSIS NOTED  SPECIFICATION ROADE CAND THE SESSIANT FOR COCURD.  WITHOUT IS AFF. INJESS OFFENSIS NOTED  SPECIFICATION ROADE CAND THE SESSIANT FOR COCURD.  WITHOUT IS AFF. INJESS OFFENSIS NOTED  SPECIFICATION ROADE CAND THE SESSIANT FOR THE SESSIANT			CEILING MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGIES.		
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SECRECATION GAUGE TAMPER RESISTANT, WEATHER DESISTANT AND GOTO DELEGE RECEPTACE WITH HIS EXECUTION.  SPECIFICATION RECORD TAMPER RESISTANT RECEPTACLE SPECIFICATION GRADE GUIDAT TAMPER RESISTANT RECEPTACLE SPECIFICATION GRADE GUIDAT TAMPER RESISTANT RECEPTACLE WHICH SPECIFICATION GRADE TAMPER RESISTANT RECEPTACLE WITH SIZE OOVER PLATE.  SPECIFICATION GRADE TAMPER PRESISTANT RECEPTACLE WITH SIZE OOVER PLATE.  SPECIFICATION GRADE TAMPER PRESISTANT RECEPTACLE WITH SIZE OOVER PLATE.  SPECIFICATION GRADE TAMPER PRESISTANT RECEPTACLE WITH SIZE OOVER PLATE.  SPECIFICATION GRADE TAMPER OF REAL UNITS NOTED OTHERWISE.  PROPERTY MARKER OF PAST UNLESS OTHERWISE GO THAMPI.  SIZE MECHANISMS OF RECEIVED AND NUTLED BY MICH.  SPECIFICATION FOR SIZE AND TYPE  SOURCE SWITCH SEE PLANS FOR SIZE AND TYPE  AND CONCEALED WIRING  LISSWITCHED LIGHTING CONDUCTOR  HOME RUN TO PASEL BOARD  NUMBERS OF ARROW MINICATE CROUTS  SOURCE OF REAL SCHEDULES  SOURCE DAY FOR SIZE  VERTIFIED THE TAMPER OF SEE PASE SOURCE STAND TO SEE PASEL SCHEDULES  SOURCE DAY FOR SIZE  VERTIFIED THE TAMPER OF SEE PASEL SCHEDULES  SOURCE DAY FOR SIZE  VERTIFIED THE TAMPER OF SEE PASEL SCHEDULES  SOURCE DO NO OF SOURCE  THE DESTRIBUTION TRANSFORMER.  SEE POWER RISSE  VERTIFIED THE TAMPER OF SEE PASEL SCHEDULES  SOURCE DAY FOR SEEL SCHEDULES  SOURCE DO NO OF SOURCE SEE PASEL SCHED		π <sup>GFI</sup> M	MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	S8 COVER PLATE	
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RECEPTAGE - MOUNT & AFF, LULESS NOTED OTHERWISE.  250 YOUT RECOPTAGE WITH GOODN. JAMP DESIGNATED RATING FIELD VERBY NUMBER OF POLE AND NEUTRAL MOUNT & AFF, LULESS OTHERWISE NOTED.  250 YOUT RECOPTAGE WITH GOODN. JAMP DESIGNATED RATING FIELD VERBY NUMBER OF POLE AND NEUTRAL MOUNT & AFF, LULESS OTHERWISE NOTED.  251 CELIND PARKE. CARBINET FOR MICHAEL SUBMERS.  252 CELIND PARKE. CARBINET FOR MICHAEL SUBMERS.  253 LANCTON BOX SIZED PER NEC.  254 DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE  255 SOLARE D HEAVY DUTY  256 NECH PARK.  257 NEW CONCEALED WIRING  258 POWER RIBBR  258 CONCEALED WIRING  259 NEW CONCEALED WIRING  250 NEW CONCEALED	1	#	SPECIFICATION GRADE QUAD TAMPER RESISTANT RECEPTACLE MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.		
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EQUIPMENT MOUNT IS AFF. INLESS ORDERINGS. NOTED.    PELD VERRY THE TO MATCH OWNER EQUIPMENT.   WITH STANLESS PLATE	,		RECEPTACLE - MOUNT 16" A.F.F. UNLESS NOTED OTHERWISE,		
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JUNCTION BOX SIZED PER NEC.  DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE  SQUARE D HEAVY DUTY  NEW CONCEALED WRING  PER NEC.  UNSWITCHED LISHTING CONDUCTOR  PER NEC.  HOME RIN TO PANEL BOARD - SEE PANEL SCHEDULES  SQUARE D NO OR EQUAL  277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  SQUARE D NO OR EQUAL  THE DRY TYPE DISTRIBUTION TRANSFORMER.  SEE POMER RISER  COMMANICATION QUITLET - MOUNT 16' AFF, UNLESS OTHERWISE NOTED  STIED 34' CONDUTT TO COMMANICATION BOARD. PROVIDE WITH PLLL WIRE.  COMMANICATION DUTLET - MOUNT 16' AFF, UNLESS OTHERWISE NOTED  STIED 34' CONDUTT OT COMMANICATION BOARD. PROVIDE WITH PLLL WIRE.  PROVIDE GROUND BAR AND CONNECT HIS AWG SROUND IN 1/2' C. TO PANEL  AFIC. ABOVE PINISHED CELING  AFF. BELOW FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS  BFF. BELOW FINISHED FLOOR  BFG. BELOW FINISHED FLOOR  BFG. BELOW FINISHED FLOOR  NOTE:  L EC. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,	1		CEILING PANEL CABINET FAN.	SEE MECH. PLAN,	
NEW CONCEALED WIRING  INSWITCHED LIGHTING CONDUCTOR  HOME RUN TO PANEL BOARD  HOME RUN TO PANEL BOARD  ROW NDICATE CROUTS  120/2089 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  2771/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  SOUARE D NO OR EQUAL  PRY TYPE DISTRELITION TRANSFORMER.  SOUARE D NF OR EQUAL  PRY TYPE DISTRELITION TRANSFORMER.  SOUARE D NF OR EQUAL  SEE POWER RISER  COMMUNICATION OUTLET - MOUNT 16' AFF. INLESS OTHERWISE NOTIED  STILB 3/4' CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WRE.  COMMUNICATION BACKEDARD: 3/4' THICK FIREPROOFED PLYBOARD MOUNTED TO WALL  PROVIDE GROUND BAR AND CONNECT HIS AWG GROUND IN 1/2' C. TO PANEL  AFC. ABOVE FINSHED CRUING  AFF. ABOVE FINSHED CRUING  AFF. BELOW FINSHED FLOOR - NOTE ALL MOUNTING DIMENSIONS  GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  NOTE:  L EC, SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH.		J			
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HOME RUN TO PANEL BOARD NUMBERS OF ARROW INDICATE CIRCUITS  120/208V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  SQUARE D NO OR EQUAL  TE  DRY TYPE DISTRIBUTION TRANSFORMER. SEE POWER RISER  COMMUNICATION QUILET - MOUNT 16' AFF. INLESS OTHERWISE NOTED STUB 3/4' CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WIRE. QUITLET, COVER PLATE AND WIRNS BY OTHERS.  COMMUNICATION BACKBOARD, 3/4'. THICK FREPROOFED PLYBOARD MOUNTED TO WALL  FROVIDE GROUND BAR AND CONNECT HIS AWG GROUND IN 1/2' C, TO PANEL  AFC. ABOVE FINISHED CEILING  AFF. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE CUTLET BOX  BFF. BELOW FINISHED FLOOR  BFG. BELOW FINISHED FLOOR  BFG. BELOW FINISHED GRADE  NOTE:  L EC, SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,			NEW CONCEALED WIRING	PER N.E.C.	
NAMERS OF ARROW NDICATE CIRCUITS  120/208V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  SOUARE D NO OR EQUAL  TE  DRY TYPE DISTRIBUTION TRANSFORMER.  SEE POWER RISER  COMMUNICATION OUTLET - MOUNT 16' AFF. INLESS OTHERWISE NOTED SEE POWER RISER  COMMUNICATION OUTLET - MOUNT 16' AFF. INLESS OTHERWISE NOTED OUTLET, COVER PLATE AND WIRN'S BY OTHERS.  TOBE  COMMUNICATION BACKBOARD: 3/4' THICK FREFROOFED PLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT H46 AWG GROUND IN 1/2' C. TO PANEL  AFF.  ABOVE FINISHED CELING  AFF.  BELOW FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  NOTE:  I. EC. SHALL SLEMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,	1		UNSWITCHED LIGHTING CONDUCTOR	PER N.E.C.	
277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES  SQUARE D NF OR EQUAL  TIF DRY TYPE DISTRBUTION TRANSFORMER.  SQUARE D OR EUQAL  SEE POWER RISER  COMMUNICATION QUILET - MOUNT IS AFF, LINESS OTHERWISE NOTED  STILE 3/4" CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WIRE.  COMMUNICATION BACKBOARD: 3/4" THICK FREEPROOFED PLYBOARD MOUNTED TO WALL  PROVIDE GROUND BAR AND CONNECT I+16 AWG GROUND IN 1/2" C; TO PANEL  AFC. ABOVE FINSHED CELLING  AFF. ABOVE FINSHED FLOOR - NOTE ALL MOUNTINS DIMENSIONS  GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  BFF. BELOW FINSHED FLOOR  BFG. BELOW FINSHED FLOOR  NOTE:  L EC. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,			HOME RUN TO PANEL BOARD	PER N.E.C.	
277/480V 39, 4W PANEL BOARD - SEE PANEL SCHEDULES SQUARE D NF OR EQUAL  TP DRY TYPE DISTRESSITION TRANSFORMER. SCHEDWER RISER COMMUNICATION OUTLET - MOUNT 16' AFF, UNLESS OTHERWISE NOTED STILB 3/4' COMMUNICATION BOARD, PROVIDE WITH PULL WIRE. OUTLET, COVER PLATE AND WIRING BY OTHERS. PROVIDE GROUND BACKBO APPROVIDE WITH PULL WIRE. PROVIDE GROUND BAR AND CONNECT 146 AWG GROUND IN 1/2' C, TO PANEL  AFF. ABOVE FINISHED CELLING  AFF. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GWEN ARE TO THE BOTTOM OF THE OUTLET BOX  BFF. BELOW FINISHED FLOOR  BF-G, BELOW FINISHED GRADE  NOTE:  1. EC. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		_		SQUARE D NQ OR EQUAL	
TE DRY TYPE DISTRIBUTION TRANSFORMER.  SEE POWER RISER  COMMUNICATION OUTLET - MOUNT 16" AFF, UNLESS OTHERWISE NOTED STUB 34" CONDUIT TO COMMUNICATION BOARD, PROVIDE WITH PULL WIRE. PLATE PLATE  COMMUNICATION BACKBOARD: 3/4" THICK FIREPROOFED PLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT I-NG AWG GROUND IN 1/2" C. TO PANEL  AFC. ABOVE FINISHED CELLING  AFF. ABOVE FINISHED CELLING  AFF. BELOW FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  BFG. BELOW FINISHED GRADE  NOTE:  L E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,			277/480V 30, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D NF OR EQUAL	
SEE POWER RISER  COMMUNICATION DUILET - MOUNT 16' AFF. UNLESS OTHERWISE NOTED SUB-3/4C CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WIRE. HUBBELL NPJIS COVER PLATE AND WIRING BY OTHERS.  COMMUNICATION BACKBOARD: 3/4* THICK FIREPROOFED PLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT 1+16 AWG GROUND IN 1/2* C, TO PANEL  AFC. ABOVE FINISHED CELING  AFF. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  BFF. BELOW FINISHED FLOOR  BF.G. BELOW FINISHED GRADE  NOTE:  I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		æ			
STUB 3/4" CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WIRE. HUBBELL NPJIS COVER PLATE AND WIRNG BY OTHERS.  COMMUNICATION BACKBOARD: 3/4" THICK FREPROOFED PLYBOARD MOUNTED TO WALL PROVIDE GROUND BAR AND CONNECT 1+16 AWG GROUND IN 1/2" C, TO PANEL  AF.C. ABOVE FINISHED CEILING  AFF. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  BFF. BELOW FINISHED FLOOR  BF.G. BELOW FINISHED GRADE  NOTE:  I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,			SEE POWER RISER		
PROVIDE GROUND BAR AND CONNECT 1-16 AWG GROUND IN 1/2" C. TO PANEL  A.F.C. ABOVE FINISHED CEILING  A.F.F. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  B.F.F. BELOW FINISHED FLOOR  B.F.G. BELOW FINISHED GRADE  NOTE:  I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		•	STUB 3/4" CONDUIT TO COMMUNICATION BOARD. PROVIDE WITH PULL WIRE,	HUBBELL NPJ13 COVER	
AF.C. ABOVE FINISHED CELLING  AFF. ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX  B.F. BELOW FINISHED FLOOR  B.F.G. BELOW FINISHED GRADE   NOTE:  I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,	<u> </u>	TCBB		O WALL	
GIVÊN ARE TO THE BOTTOM OF THE OUTLET BOX  B.F.G. BELOW FINISHED GRADE  NOTE:  I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		A.F.C.	ABOVE FINISHED CEILING		
BF.G. BELOW FINISHED GRADE  NOTE:  1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		A.F.F.			
<b>NOTE:</b> 1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		B.F.F.	BELOW FINISHED FLOOR		
I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,		B.F.G.	BELOW FINISHED GRADE		
I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,					
I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,					
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I. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCH,					
		NOTE	<b>=</b> :		
				OF ALL SWITCH,	
	_				

## **GENERAL NOTES**

- I. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.
- 2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- 3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE, A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- 4. ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- 5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- 6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER PROCEDURE THE ENGINEER PROFESSION OF MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
- WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.

  • WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
- IO. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR,
- II. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
- 12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL
- 13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
- 14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES, ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE, ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- 16. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
- 17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE NOT ALLOWED IN THIS PROJECT.
- 19. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3), FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- 20. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY
- ARE SEPARATED BY A MINIMUM OF 24".
- 21. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.

LIGHT FIXTURE SCHEDULE

TYPE

- 22. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- 23. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL, WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION. 24. SEE SPECIFICATIONS.

## 2018 NORTH CAROLINA **ENERGY CODE**

	ELECTRICAL SYSTEM AND EQUIPMENT METHOD OF COMPLIANCE: PRESCRIPT			
	LI	GHTING SCHEDULE:		
AMP TYPE REQUIRED:	FLUORESCENT T8/T5	LED	CFL	
IUMBER OF LAMPS:	N/A	SEE	N/A	
BALLAST TYPE USED:	N/A	FIXTURE	N/A	
IUMBER OF BALLASTS:	N/A	SCHEDULE	N/A	
OTAL WATTAGE PER FIXTURE:	N/A		N/A	

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		
STORAGE BUILDING	2614	4099 **
EXTERIOR WATTAGE	ZONE 2	
ALLOWANCE	44	600

INCAN

N/A

N/A

N/A

N/A

- I. \*\* PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE 10% LOWER THAN THOSE CALCULATED PER SECTION C405.4.2.

  • VALUE CALCULATE PER SECTION C405.4.2: 4554 WATTS

  • VALUE PER SECTION C406.3: 4099 WATTS
- CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SUJIN PRAMOJANEY, P.E. ENGINEER

#### DESCRIPTION CATALOG ELECTRICAL DATA NOTES 4000/5000/6000 LUMEN LED, 3500K/4000K/5000K 0-IOV ELECTRONIC DIMMING DRIVER 29/36/50 WATTS - 32/40/55 VA 2x4 LED FLAT PANEL FIXTURE SET COLOR TO 4000K SEE NOTE ON PLAN FOR LUMEN SETTING. RECESSED MOUNTED 4000/5000/6000 LUMEN CPX-2X4-AL08-80CRI-SWW7-SWL 2x2 LED FLAT PANEL FIXTURE RECESSED MOUNTED 2500/3200/4000 LUMEN LED, 3500K/4000K/5000K 0-IOV ELECTRONIC DIMMING DRIVER 20/27/34 WATTS - 22/30/38 VA SET COLOR TO 4000K SEE LUMEN TO 3200 LUMEN LITHONIA: CPX-2X2-AL07-80CRI-SWW7-SWL 2500/3200/4000 LUMEN LITHONIA: IBG-18000LM-SEF-AFL-GND-MVOLT -GZI0-40K-80CRI-LSXR6-P HI-BAY LED LIGHT FIXTURE WITH MOTION SENSOR WITH PHOTOCELL 18000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER 105 WATTS - 115 VA, 120-277V HANG BOTTOM 18 FT. A.F.F. SET TIME OUT TO 15 MIN, SET PHOTOCELL TO 40 FC 18000 LUMEN HI-BAY LED LIGHT FIXTURE WITH MOTION SENSOR WITH PHOTOCELL HANG BOTTOM 18 FT. A.F.F. SET TIME OUT TO 15 MIN, SET PHOTOCELL TO 100 FC 30000 LUMEN LED, 4000K 0-10V ELECTRONIC DIMMING DRIVER IBG-30000LM-SEF-AFL-GND-MVOLT -GZI0-40K-80CRI-LSXR6-P 30000 LUMEN 78 WATTS - 200 VA, 120-277V 8 FT. STRIP LED LIGHT FIXTURE WITH MOTION SENSOR 8000 LUMEN LED, 4000K ELECTRONIC DRIVER 72 WATTS - 80 VA, 120-277V HANG BOTTOM 12 FT. ABOVE MECH. CSS-L96-8000LM-MVOLT-40K-80CRI PLATFORM SET TIME OUT TO 15 MIN. , 8000 LÜMEN 10000 LUMEN LED, 4000K ELECTRONIC DRIVER 79 WATTS - 88 VA, 120-277V MOUNT BOTTOM ABOVE 12 FT. A.F.F. FIELD VERIFY EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. W2 | WALL PACK FIXTURE TWX3-LED-P2-40K-MVOLT-DDBXD 10000 LUMEN

1500 LUMEN LED, 4000K ELECTRONIC DRIVER

II WATTS - 14 VA, 120-277V

I WATTS - II VA, 120/277V

0.33 WATTS - 6 VA, 120/277V

4.7 WATTS - 6 VA, I2O-277V

(2) 0.75W LED HEADS,

(2) 5.3W LED HEADS

(2) 0.75W LED HEADS, LED FOR PANEL

\*\* FINISH COLOR PER ARCHITECT INSTRUCTION.
MOUNT BOTTOM 8 FT. A.F.F.

MOUNT BOTTOM ABOVE 12 FT. A.F.F. FIELD VERIFY EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

## NOTES:

LITHONIA: ECC-R

LITHONIA: EU2L-MI2

ELM6L-UVOLT-LTP

- SEE ARCHITECTURAL PLAN FOR MOUNTING, FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
- 2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ARCHITECT.

LITHONIA: WPXI-LED-PI-40K-MVOLT-EI4WC-\*\*

3. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

FIXTURE SCHEDULE NO SCALE

EXTERIOR WALL MOUNTED CUT-OFF

EMERGENCY WITH EXIT LIGHT I SIDE RED LETTER

EMERGENCY LIGHT

EMERGENCY LIGHT 1100 LUMEN TOTAL

1500 LUMEN
LISTED FOR WET LOCATION AND O'F
WITH EMERGENCY BATTERY BACKUP

- BRANCH CIRCUIT AND CONDUIT IN ELECTRICAL WORK - SEE PANEL SCHEDULES FOR WIRE AND BREAKER SIZES TO MECH. / PLUMB. JUNCTION BOX MAY BE SHOWN ON  $-\!-\!-$ EQUIPMENT. ELECTRICAL DRAWINGS FOR SOME EQUIPMENT (NOT NECESSARY IF WIRING IS CONNECTED DIRECTLY TO STARTER OR DISCONNECT SWITCH) - WIRING IN ELECTRICAL WIRING IN ELECTRICAL EXTERNALLY MOUNTED STARTER—FURNISHED BY THE MECH. / PLUMB. CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR - LINE
AND LOAD CONNECTIONS BY THE
ELECTRICAL CONTRACTOR, CONTROL
CONNECTIONS BY THE MECH. / PLUMB,
CONTRACTOR PANEL WIRING IN ELECTRICAL EQUIPMENT IN MECH. / PLUMB. WORK SEE MECH. / PLUMB, DRAWINGS FOR LOCATION OF ALL EQUIPMENT. - WIRING IN ELECTRICAL WORK -FINAL CONNECTIONS INSIDE EQUIPMENT TO BE MADE BY THE MECH, / PLUMB, CONTRACTOR NOTES: I. X A COMBINATION STARTER MAY BE USED IN LIEU OF A A SEPARATE DISCONNECT SWITCH AND STARTER 2. E.C. SHALL FURNISH ALL REQUIRED FUSES.

WIRING TO MECH./PLUMB. EQUIPMENT



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PROJECT # 24041

REF. SCALE IN INCHES

**DAVIS KANE** ARCHITECTS, PA 503 OBERLIN ROAD | SUITE 300 RALEIGH, NC 27605 919.833.3737 www.daviskane.com

> PROJECT INFORMATION ATLANTEC ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 24041

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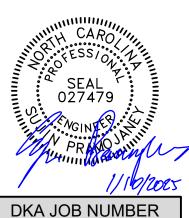
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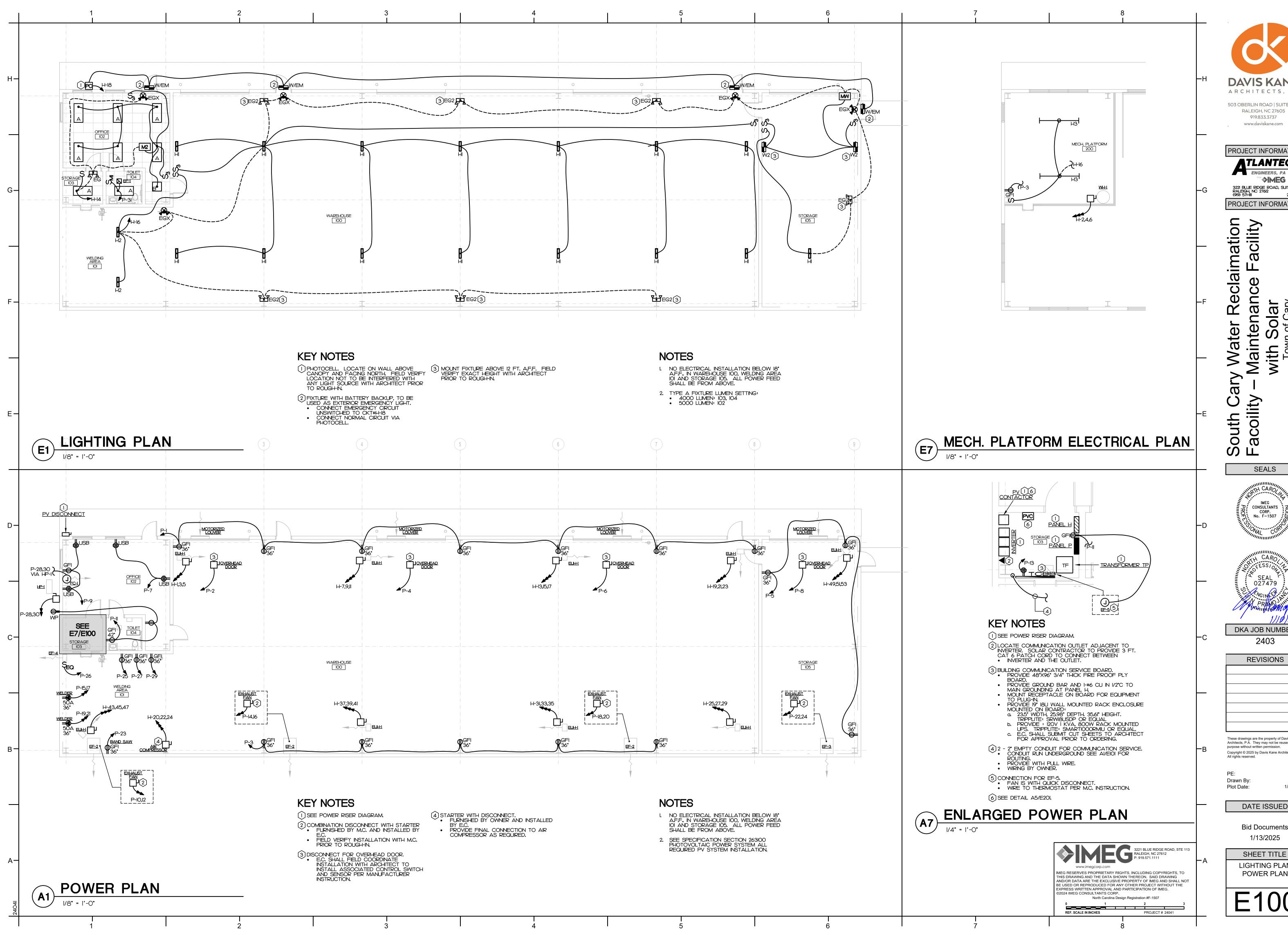
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1/13/2025 SHEET TITLE LEGEND, NOTES.

FIXTURE SCHEDULE DETAIL



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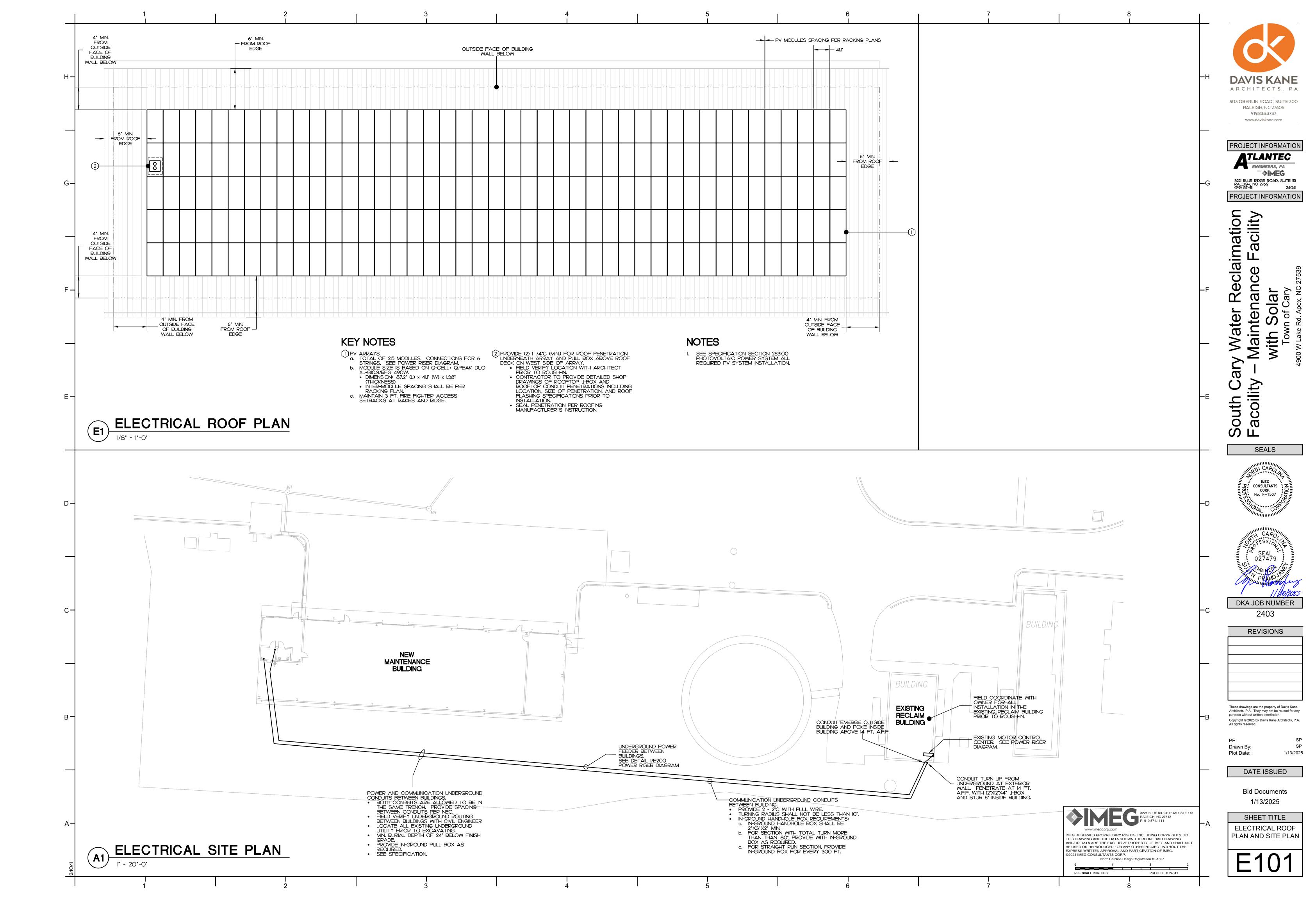
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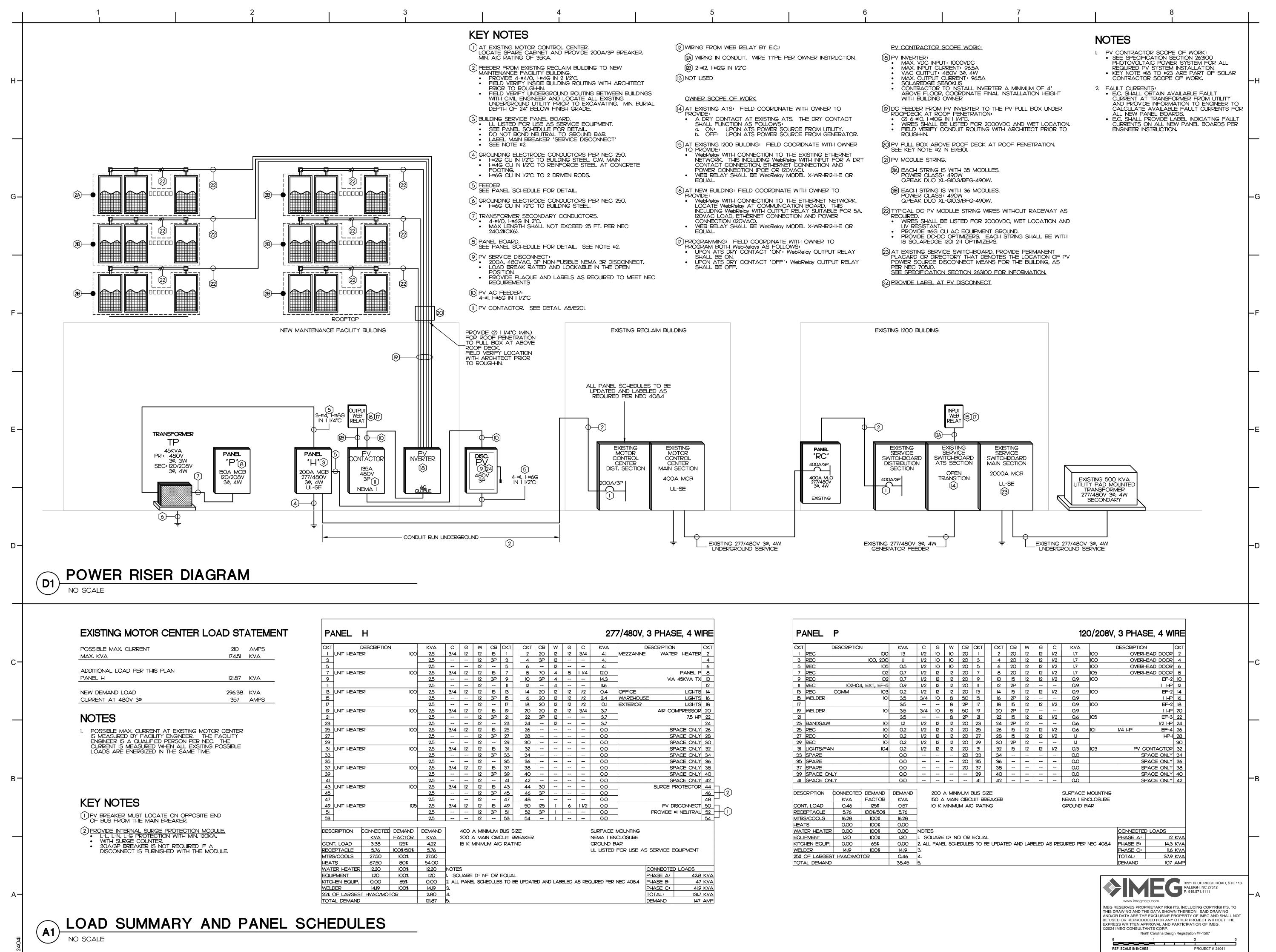
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SHEET TITLE LIGHTING PLAN **POWER PLAN** 





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SHEET TITLE **POWER RISER** PANEL SCHEDULES

